

# SITE DEVELOPMENT PLANS

FOR:

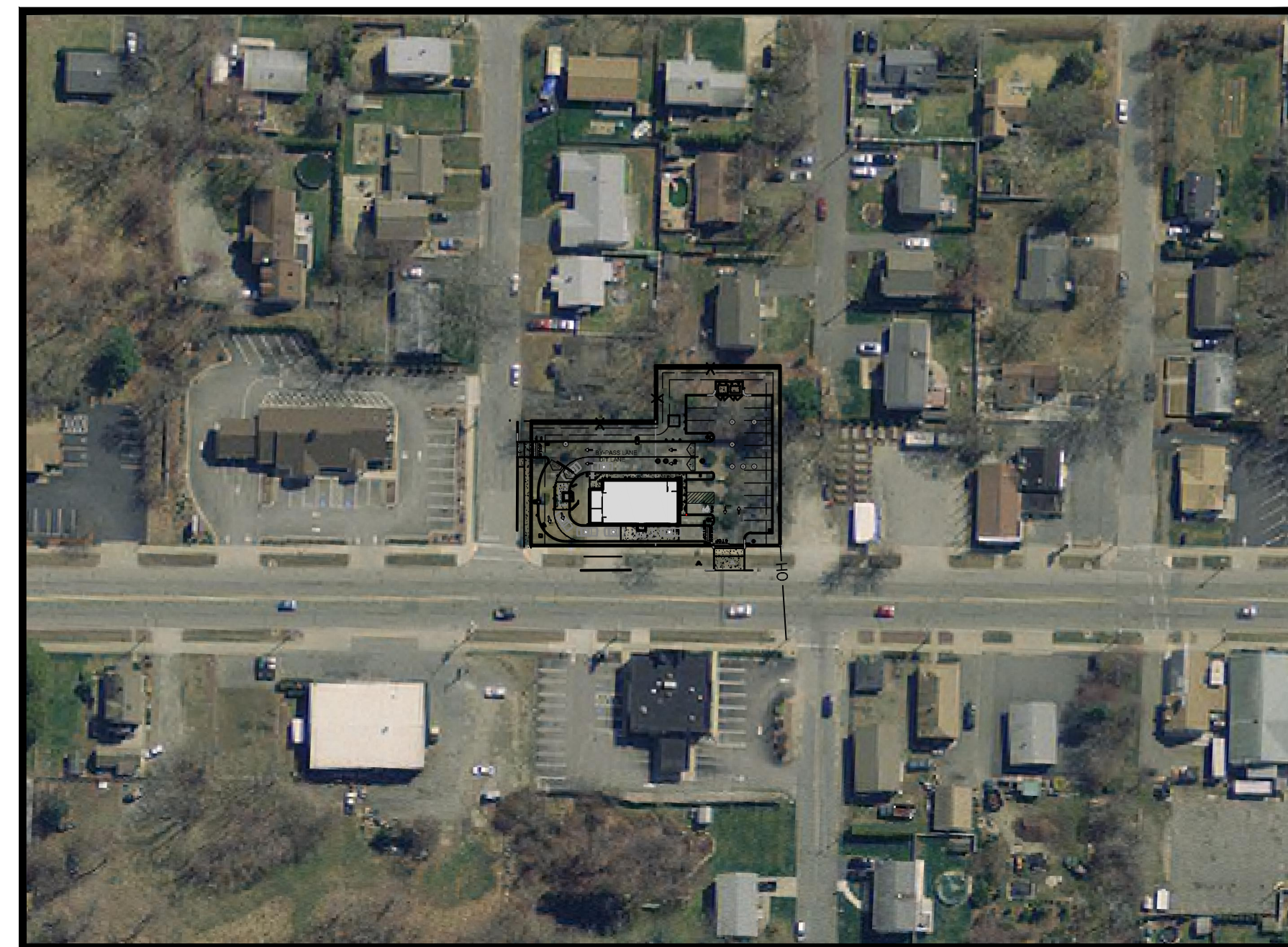


WITH DRIVE-THRU

LOCATION OF SITE:

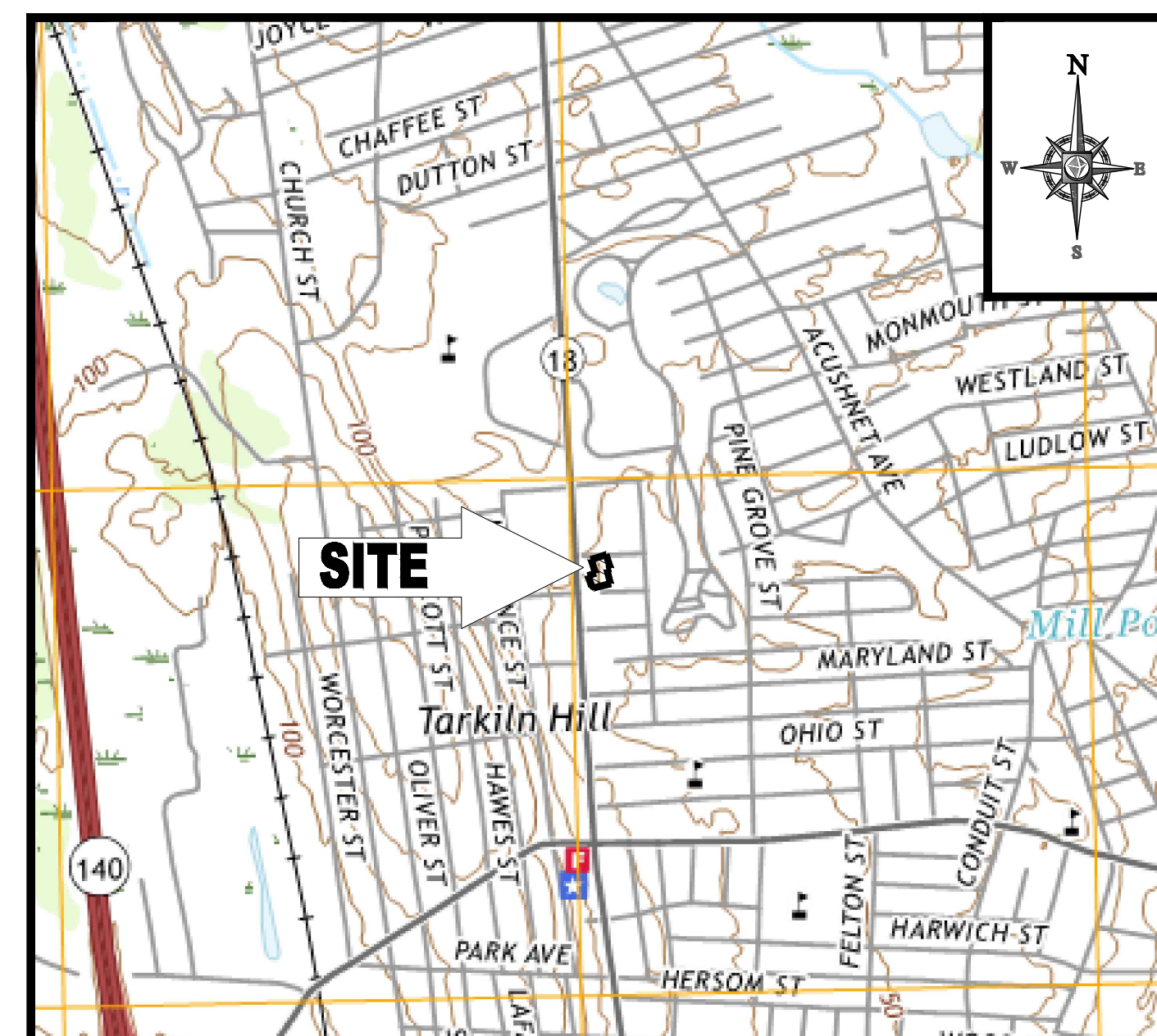
970 ASHLEY BOULEVARD, CITY OF NEW BEDFORD  
BRISTOL COUNTY, MASSACHUSETTS

MAP #127D, LOTS #89 & #98



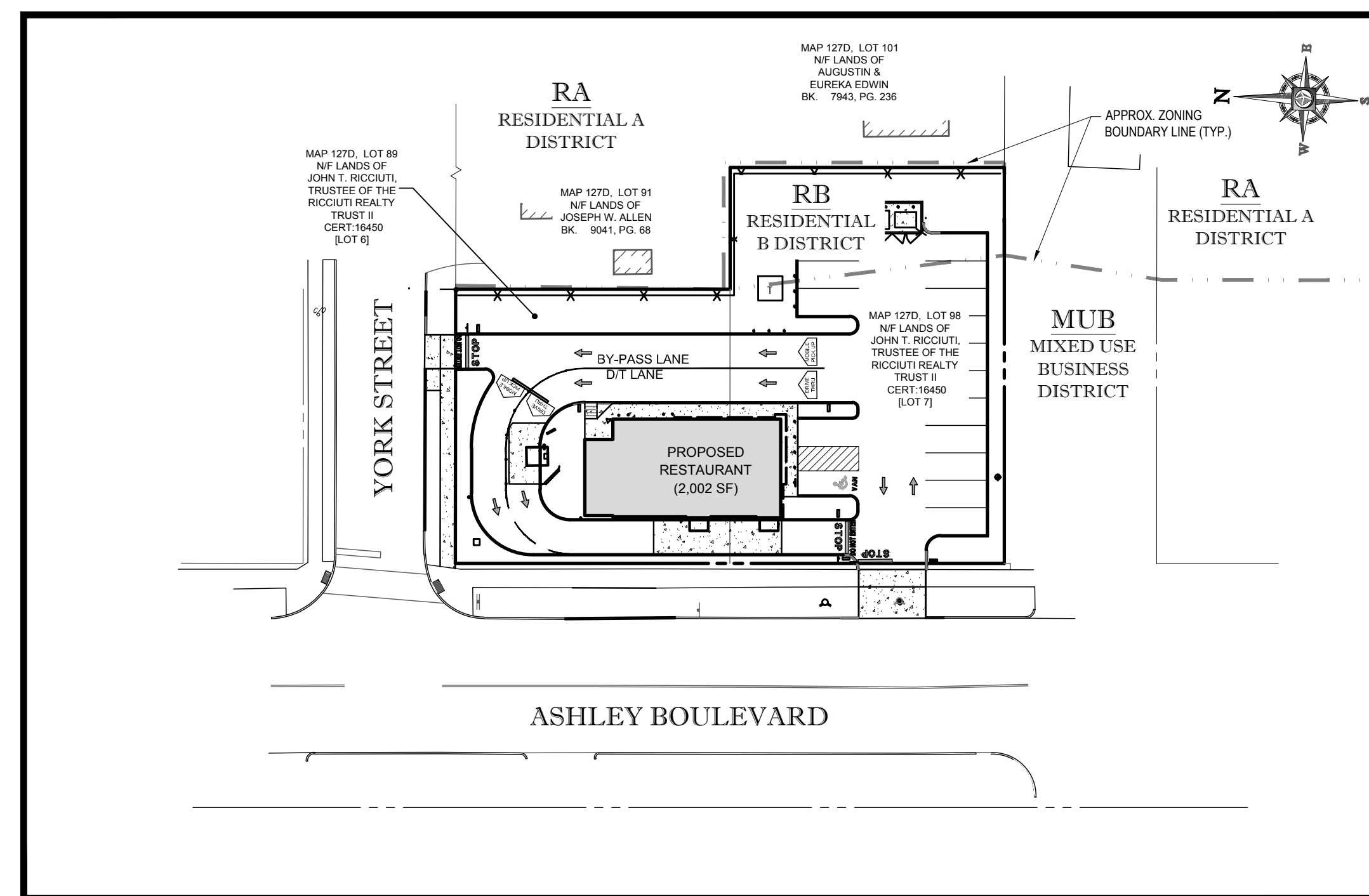
LOCATION MAP

SCALE: 1"=100'  
PLAN REFERENCE: GOOGLE EARTH IMAGE



LOCATION MAP

SCALE: 1"=1800'  
PLAN REFERENCE: NEW BEDFORD USGS QUADRANGLE



AREA PLAN

SCALE: 1"=40'

## LAND USE / ZONING INFORMATION & NOTES

- APPLICANT:  
TOM DALY  
YEARLY GRIND II REALTY, LLC  
P.O. BOX 51147  
NEW BEDFORD, MA 02745
- OWNER:  
JOHN T. RICCIUTI  
JOHN T. RICCIUTI REALTY TRUST II  
970 ASHLEY BLVD  
NEW BEDFORD, MA 02745
- PARCEL:  
MAP 127D & LOTS #89 & #98  
970 ASHLEY BLVD  
NEW BEDFORD, BRISTOL COUNTY,  
MASSACHUSETTS

ZONING ANALYSIS TABLE			
ZONING DISTRICT	REQUIRED	EXISTING	PROPOSED
MIXED USE BUSINESS DISTRICT (MUB), RESIDENCE B DISTRICT (RB) - RESTAURANT, FAST-FOOD* USE REQUIRES SPECIAL PERMIT FROM THE ZONING BOARD OF APPEALS - COMMERCIAL PARKING IN RB DISTRICT REQUIRES SPECIAL PERMIT FROM THE ZONING BOARD OF APPEALS - A REDUCTION OF REQUIRED PARKING SPACES REQUIRES A SPECIAL PERMIT FROM THE PLANNING BOARD			
ZONE CRITERIA	REQUIRED	EXISTING	PROPOSED
MINIMUM LOT AREA	8,000 SF	19,806 SF	NO CHANGE
MINIMUM LOT FRONTAGE	0 FT	80 FT ±	NO CHANGE
MAX. BUILDING COVERAGE	40%	6.0%	10.1%
MIN. FRONT SETBACK	0	76.5 FT	10.6 FT
MIN. SIDE SETBACK	10 FT	7.2 FT	42.2 FT
MIN. REAR SETBACK	10 FT	N/A	N/A
MAX. BUILDING HEIGHT	100 FT	13.8'	23'-1"
MAX. IMPERVIOUS COVERAGE/GREEN SPACE	89.1% / 10.1% (3)	28.4% / 71.6%	69.2% / 30.8%
PARKING SPACES	26	0	16 (2)
PARKING CRITERIA (9x20')	1 SPACE FOR EACH EMPLOYEE + 1 SPACE PER 100 SF GFA; MINIMUM 20 SPACES + 5 EMPLOYEE + 1 LOADING SPACE = 26 SPACES REQUIRED 16 SPACES PROVIDED (2)		
ACCESSIBLE PARKING SPACES	1	1	1
ACCESSIBLE PARKING CRITERIA (STANDARD SPACE- 8x18' W/ 8' ACCESS AISLE) (VAN ACCESSIBLE SPACE- 8x18' W/ 8' ACCESS AISLE)	TOTAL PARKING 1 TO 25 = 1 ACCESSIBLE SPACE VAN ACCESSIBLE SPACES= 1 / 6 SPACES		

N/A - NOT APPLICABLE  
N/S - NOT SPECIFIED  
(1)- SITE REQUIRES SPECIAL PERMIT FROM ZONING BOARD OF APPEALS  
(2)- REQUIRES SPECIAL PERMIT FROM PLANNING BOARD FOR REDUCED NUMBER OF PARKING SPACES  
(3)- 65% MAX. IMPERVIOUS REQUIRED IN RESIDENTIAL DISTRICTS, 100% MAX. IMPERVIOUS COVERAGE FOR OTHER USES  
(4)- A 5' RESIDENTIAL SCREENING BUFFER IS PROVIDED

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BOUNDARY, TOPOGRAPHIC, & UTILITY SURVEY (BY OTHERS)	1 OF 1
PROPOSED FLOOR PLAN (BY OTHERS)	1 OF 1

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REVISIONS			
REV	DATE	COMMENT	BY
1			
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PRELIMINARY	
PROJECT No.:	W181193
DRAWN BY:	DJO
CHECKED BY:	SJM/JAB
DATE:	12/06/2018
SCALE:	AS NOTED
CAD I.D.:	W181193S50

PROJECT: **SITE DEVELOPMENT PLANS** FOR **DUNKIN' BRANDS** [eatdrinkthink™]

LOCATION OF SITE  
MAP #127D, LOTS #89 & #98  
970 ASHLEY BLVD  
CITY OF NEW BEDFORD  
BRISTOL COUNTY,  
MASSACHUSETTS

**BOHLER ENGINEERING**  
352 TURNPIKE ROAD  
SOUTHBOROUGH, MA 01772  
Phone: (508) 480-9900  
Fax: (508) 480-9080  
[www.BohlerEngineering.com](http://www.BohlerEngineering.com)

**J. A. Beardino**  
Professional Engineer  
State of Massachusetts  
License No. 11847

SHEET TITLE:  
**COVER SHEET**

SHEET NUMBER:  
**1**

OF 15

REV 0 - 12/06/2018

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PREPARED BY  
**BOHLER ENGINEERING**

## GENERAL NOTES

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.

1. THE FOLLOWING DOCUMENTS ARE INCORPORATED BY REFERENCE AS PART OF THIS SITE PLAN:
  - "BOUNDARY, TOPOGRAPHIC & UTILITY SURVEY" PREPARED BY CONTROL POINT ASSOCIATES, INC., DATED 11-06-2018, REVISED THROUGH 12-05-2018.
  - "PHASE ENVIRONMENTAL SITE ASSESSMENT" PREPARED BY WHITESTONE ASSOCIATES, INC., DATED 12-04-2018.

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.

2. ALL ACCESSIBLE (AKA ADA) PARKING SPACES MUST BE CONSTRUCTED TO MEET, AT A MINIMUM, THE MORE STRINGENT OF THE REQUIREMENTS OF THE 'AMERICANS WITH DISABILITIES ACT (ADA)' (49 U.S.C. § 12101 et seq. & 28 U.S.C. § 4151 et seq.) OR THE REQUIREMENTS OF THE JURISDICTION WHERE THE PROJECT IS TO BE CONSTRUCTED, AND ANY AND ALL AMENDMENTS TO BOTH WHICH ARE IN EFFECT WHEN THESE PLANS ARE COMPLETED.

3. 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.

4. 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.

5. 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.

6. 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 TO PROCEEDING WITH ANY FURTHER WORK.

7. THESE PLANS ARE BASED ON INFORMATION PROVIDED TO BOHLER ENGINEERING BY THE OWNER AND OTHERS PRIOR TO THE TIME OF PLAN PREPARATION. 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.

8. 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, IF ANY CONFLICTS, DISCREPANCIES OR AMBIGUITIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION. NO EXTRA COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR WORK WHICH IS 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.

9. CONTRACTOR MUST REFER TO THE ARCHITECTURAL/BUILDING PLANS OF RECORD FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRY/EYEFIT 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 AMBIGUITIES WHICH EXIST.

11. 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 INCLUDING DURING EXCAVATION (TO BE PERFORMED IN ACCORDANCE WITH CURRENT OSHA STANDARDS) AND ANY ADDITIONAL PRECAUTIONS TO BE TAKEN TO ASSURE THE STABILITY OF ADJACENT, NEARBY AND CONTIGUOUS STRUCTURES AND PROPERTIES.

13. 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 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 CONSTRUCTION.

15. ALL CONCRETE MUST BE AIR ENTRAINED AND HAVE THE MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS UNLESS OTHERWISE NOTED ON THE PLANS, DETAILS AND/OR GEOTECHNICAL REPORT.

16. THE ENGINEER IS NOT RESPONSIBLE FOR CONSTRUCTION METHODS, MEANS, TECHNIQUES OR PROCEDURES, GENERALLY OR FOR THE CONSTRUCTION MEANS, 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.

17. THE ENGINEER OF RECORD IS NOT RESPONSIBLE FOR JOB SITE SAFETY. THE ENGINEER OF RECORD HAS NOT BEEN RETAINED TO PERFORM OR BE RESPONSIBLE 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 WORKERS 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 PAST, PRESENT AND FUTURE OWNERS, OFFICERS, DIRECTORS, MEMBERS, PRINCIPALS, COMMISSIONERS, AGENTS, SERVANTS, EMPLOYEES, AFFILIATES, SUBSIDIARIES, AND RELATED ENTITIES, AND ITS SUBCONTRACTORS AND SUBCONSULTANTS AS ADDITIONAL NAMED INSURED AND TO PROVIDE CONTRACTUAL LIABILITY COVERAGE SUFFICIENT TO INSURE THIS HOLD HARMLESS AND INDEMNIFY OBLIGATIONS 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 REHEVAL 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 ITS PAST, PRESENT AND FUTURE OWNERS, OFFICERS, DIRECTORS, PARTNERS, SHAREHOLDERS, MEMBERS, PRINCIPALS, COMMISSIONERS, AGENTS, SERVANTS, EMPLOYEES, AFFILIATES, SUBSIDIARIES, AND RELATED ENTITIES, AND ITS SUBCONTRACTORS FROM AND AGAINST ANY DAMAGES, INJURIES, CLAIMS, ACTIONS, PENALTIES, EXPENSES, PUNITIVE DAMAGES, TORT DAMAGES, STATUTORY CLAIMS, STATUTORY CAUSES OF ACTION, LOSSES, DAMAGES, OF ACTION, LIABILITIES OR COSTS, INCLUDING, BUT NOT LIMITED TO, REASONABLE ATTORNEYS' FEES AND DEFENSE COSTS, ARISING OUT OF OR IN ANY WAY CONNECTED WITH OR TO THE PROJECT, INCLUDING ALL CLAIMS BY EMPLOYEES OF THE CONTRACTORS. ALL CLAIMS BY THIRD PARTIES AND ALL CLAIMS RELATED TO THE PROJECT. CONTRACTOR MUST NOTIFY ENGINEER, IN WRITING, AT LEAST THIRTY (30) DAYS PRIOR TO ANY TERMINATION, SUSPENSION OR CHANGE OF ITS INSURANCE HEREUNDER.

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 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. HOWEVER, THE CONTRACTOR SHALL BE REQUIRED TO CONSULT WITH BOHLER ENGINEERING PRIOR TO COMMENCING WORK 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 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 HAVE NOT BEEN RECEIVED.

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, SHALL RELIEVE THE GENERAL CONTRACTOR OF ITS OBLIGATIONS, DUTIES AND RESPONSIBILITIES INCLUDING, BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, OVERSEEING, SUPERINTENDING AND COORDINATING THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND COMPLIANCE WITH ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES WITH JURISDICTION OVER THE PROJECT AND/OR PROPERTY. BOHLER ENGINEERING AND ITS PERSONNEL HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES IN CONNECTION WITH THEIR WORK OR ANY HEALTH OR SAFETY PROGRAMS OR PROCEDURES. THE GENERAL CONTRACTOR 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 INCURRED 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 PERMITTED UNDER THE LAW, IN ACCORDANCE WITH PARAGRAPHS 19 HEREIN, FOR AND FROM ALL FEES, ATTORNEYS' FEES, DAMAGES, COSTS, JUDGMENTS, PENALTIES AND THE LIKE RELATED TO SAME.

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 WITH THE APPROVED PLANS. IF CONTRACTOR AND/OR OWNER FAIL TO BUILD OR CONSTRUCT IN STRICT ACCORDANCE WITH APPROVED PLANS, THEY AGREE TO JOINTLY AND SEVERALLY INDEMNIFY AND HOLD ENGINEER HARMLESS FOR ALL INJURIES AND DAMAGES THAT ENGINEER SUFFERS AND COSTS THAT ENGINEER INCURS.

25. OWNER MUST MAINTAIN AND PRESERVE ALL PHYSICAL SITE FEATURES AND DESIGN FEATURES DEPICTED ON THE PLANS AND RELATED DOCUMENTS, IN STRICT ACCORDANCE WITH THE APPROVED PLANS 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 DEPICTED ON THE PLANS 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 MANUFACTURERS 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 RESULT OF SAID FAILURE.

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 ENSURE 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' CONSTITUTE A PROFESSIONAL OPINION REGARDING THE INFORMATION WHICH IS THE SUBJECT OF THE UNDERGROUND UTILITIES. THE UNDERGROUND PROFESSIONAL'S KNOWLEDGE OR BELIEF IS 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 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 BEGINNING AT THE LOWEST INVERT POINT (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.

2. 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 UTILITIES DURING CONSTRUCTION.

3. 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. SHOULD THE CONTRACTOR FIND A CONFLICT AND/OR DISCREPANCY BETWEEN THE DRAWINGS AND SPECIFICATIONS OF THE PLANS AND THE DRAWINGS AND SPECIFICATIONS OF 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 UTILITY ACTIVITY.

5. 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.

6. THE CONTRACTOR MUST INSTALL ALL STORM SEWER AND SANITARY SEWER COMPONENTS WHICH FUNCTION BY GRAVITY PRIOR TO THE INSTALLATION OF ALL OTHER UTILITIES.

7. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF SITE PLAN DOCUMENTS AND ARCHITECTURAL DESIGN FOR EXACT BUILDING UTILITY CONNECTION LOCATIONS, GREASE TRAP 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 ENSURING 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 THE INTERSECTIONS POINT TO CONNECTING TO THE EXISTING UTILITY SERVICE (WHERE A CONFLICT) EXISTS BETWEEN THESE SITE PLANS AND THE ARCHITECTURAL PLANS, OR WHERE ARCHITECTURAL PLAN UTILITY CONNECTION POINTS DIFFER, THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER, IN WRITING, AND PRIOR TO CONSTRUCTION, RESOLVE SAME.

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

9. 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.

10. 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 OUTLINED IN THE GEOTECHNICAL REPORT. MOISTURE CONTENT AT THE 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 DETERMINED UNSUITABLE BY 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 FULLY COMPLY WITH THE STANDARD STATE DOT SPECIFICATIONS FOR ROADWAY CONSTRUCTION (LATEST EDITION) AND ANY AMENDMENTS OR REVISIONS THEREO.

11. ALL FILL, COMPACTATION, AND BACKFILL MATERIALS REQUIRED FOR UTILITY INSTALLATION MUST BE AS PER THE RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL REPORT AND MUST BE COORDINATED WITH THE APPLICABLE UTILITY COMPANY SPECIFICATIONS, WHEN THE PROJECT DOES NOT HAVE GEOTECHNICAL RECOMMENDATIONS, FILL AND COMPACTATION 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, COMPACTATION AND BACKFILL. FURTHER, CONTRACTOR IS FULLY RESPONSIBLE FOR EARTHWORK BACKFILL.

12. 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 THE OSHA CRITERIA. THE CONTRACTOR IS RESPONSIBLE FOR EXCAVATION AND/OR TRENCHING PROCEDURES AND CONSULTANT SHALL HAVE NO RESPONSIBILITY FOR OR AS RELATED TO EXCAVATION AND TRENCHING PROCEDURES.

13. PAVEMENT MUST BE SAW CUT IN STRAIGHT LINES, AND EXCEPT FOR EDGE OF BUILT 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. STOCKPIILING OF DEBRIS WILL NOT BE PERMITTED.

14. THE TOPS OF EXISTING MANHOLES, BELT STRUCTURES, AND SANITARY CLEANOUT TOPS MUST BE ADJUSTED, AS NECESSARY, TO MATCH PROPOSED GRADES IN ACCORDANCE WITH ALL APPLICABLE STANDARDS, REGULATIONS, RULES, STATUTES, LAWS, ORDINANCES AND CODES.

15. DURING THE INSTALLATION OF SANITARY SEWER, STORM SEWER, AND ALL UTILITIES, THE CONTRACTOR MUST MAINTAIN A CONTEMPORANEOUS AND THOROUGH RECORD OF CONSTRUCTION TO REFLECT THE AS-INSTALLED LOCATIONS OF ALL UNDERGROUND UTILITIES. THE CONTRACTOR MUST CAREFULLY NOTE ANY INSTALLATIONS THAT DEVIATES 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.

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 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 DRAINAGE OR UTILITY PLAN, WHICH CONTRACTOR MUST PROMPTLY PROVIDE TO THE OWNER UPON COMPLETION OF THE WORK.

17. 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, OUTLETS, AND CURBS. 1.0% ON ALL CONCRETE SURFACES; AND 1.5% MINIMUM ON ASPHALT (EXCEPT WHERE ADA REQUIREMENTS OR EXISTING TOPOGRAPHY LIMIT GRADIENTS), TO PREVENT FLOWING. CONTRACTOR MUST IMMEDIATELY NOTIFY, 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 WITHOUT PROVIDING PRIOR NOTIFICATION, MUST BE AT THE CONTRACTOR'S OWN RISK AND, FURTHER, CONTRACTOR SHALL INDEMNIFY, DEFEND AND HOLD HARMLESS THE DESIGN ENGINEER FOR ANY DAMAGES, COSTS, INJURIES, ATTORNEYS' FEES AND THE LIKE WHICH RESULT FROM SAME.

18. PROPOSED TOP OF CURB ELEVATIONS ARE GENERALLY 'V' ABOVE EXISTING LOCAL ASPHALT GRADE UNLESS OTHERWISE NOTED. FIELD ADJUST TO CREATE A MINIMUM OF .07% GUTTER GRADE ALONG CURB FACE. IT IS CONTRACTOR'S OBLIGATION TO ENSURE THAT DESIGN ENGINEER APPROVES FINAL CURBING CUT SHEETS PRIOR TO INSTALLATION OF SAME.

19. REFER TO THIS SHEET FOR ADDITIONAL NOTES.

20. IN THE EVENT OF DISCREPANCIES AND/OR CONFLICTS BETWEEN PLANS OR RELATIVE TO OTHER PLANS, THE SITE PLAN WILL TAKE PRECEDENCE AND CONTROL. CONTRACTOR MUST IMMEDIATELY NOTIFY THE DESIGN ENGINEER, IN WRITING, OF ANY DISCREPANCIES AND/OR CONFLICTS.

21. CONTRACTOR IS REQUIRED TO SECURE ALL NECESSARY AND/OR REQUIRED PERMITS AND APPROVALS FOR ALL OFF SITE MATERIAL SOURCES AND DISPOSAL FACILITIES. CONTRACTOR MUST SUPPLY A COPY OF APPROVALS TO ENGINEER AND OWNER PRIOR TO INITIATING ANY WORK.

22. WHERE RETAINING WALLS (WHETHER OR NOT THEY MEET THE JURISDICTIONAL DEFINITION) ARE IDENTIFIED ON PLANS, ELEVATIONS IDENTIFIED ARE FOR THE EXPOSED PORTION OF THE WALL. WALL FOOTING/SUBFOUNDATION ELEVATIONS ARE NOT IDENTIFIED HEREIN AND ARE TO BE DETERMINED BY THE CONTRACTOR BASED ON FINAL STRUCTURAL DESIGN SHOP DRAWINGS PREPARED BY THE APPROPRIATE PROFESSIONAL LICENSED IN THE STATE WHERE THE CONSTRUCTION OCCURS.

23. STORM DRAINAGE PIPE UNLESS INDICATED OTHERWISE, ALL STORM SEWER PIPE MUST BE REINFORCED CONCRETE PIPE (RCP) CLASS III WITH SALT TIGHT JOINTS. WHEN HIGH-DENSITY POLYETHYLENE PIPE (HDPE) IS CALLED FOR ON THE PLANS, IT MUST CONFORM TO ASTM D2635 AND TYPE S (SMOOTH INTERIOR WITH ANGULAR CORRELATIONS) WITH GASKET FOR SLT TIGHT JOINT. PVC PIPE FOR ROOF DRAIN CONNECTION MUST BE SDR 26 OR SCHEDULE 40 UNLESS INDICATED OTHERWISE.

24. 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.

25. STORM AND SANITARY SEWER PIPE LENGTHS INDICATED ARE NOMINAL AND MEASURED CENTER OF INLET AND/OR MANHOLES STRUCTURE TO CENTER OF STRUCTURE.

26. STORMWATER ROOF DRAIN LOCATIONS ARE BASED ON PRELIMINARY ARCHITECTURAL PLANS. CONTRACTOR IS RESPONSIBLE TO AND FOR VERIFYING LOCATIONS OF SAME BASED ON FINAL ARCHITECTURAL PLANS.

27. SEWERS CROSSING STREAMS AND/OR LOCATION WITHIN 10 FEET OF THE STREAM BANKMOUNT, OR WHERE SITE CONDITIONS SO INDICATE, MUST BE CONSTRUCTED OF STEEL, REINFORCED CONCRETE, DUCTILE IRON OR HDPE ON THE PLANS. IT MUST CONFORM TO ASTM D2151 AND TYPE S (SMOOTH INTERIOR WITH ANGULAR CORRELATIONS) WITH GASKET FOR SLT TIGHT JOINT. WATER MAINS BY A DISTANCE OF AT LEAST 10 FEET HORIZONTALLY. IF SUCH 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 JURISDICTION OVER SAME.

• WHERE APPROPRIATE SEPARATION FROM A WATER MAIN IS NOT POSSIBLE, THE SEWER MUST BE ENCASED IN CONCRETE, OR CONSTRUCTED OF DUCTILE IRON PIPE USING 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 MUST 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.

28. WATER MAIN PIPING MUST BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE LOCAL WATER PURVYOR. IN THE ABSENCE OF SUCH REQUIREMENTS, WATER MAIN PIPING MUST BE CEMENT-LINED DUCTILE IRON (DIP) MINIMUM CLASS 21 THICKNESS. ALL PIPE AND APPURTENANCES MUST COMPLY WITH THE APPLICABLE ANWWA STANDARDS IN EFFECT AT THE TIME OF APPLICATION.

29. CONTRACTOR MUST ENSURE THAT ALL UTILITY TRENCHES LOCATED IN EXISTING PAVED ROADWAYS INCLUDING SEWER, WATER AND STORM SYSTEMS, MUST BE REPAIRED IN ACCORDANCE WITH REFERENCED MUNICIPAL COUNTY AND/OR DOT DETAILS AS APPLICABLE. CONTRACTOR MUST COORDINATE INSPECTION AND APPROVAL OF COMPLETED WORK WITH THE AGENCY WITH JURISDICTION OVER SAME.

30. LOCATION OF PROPOSED UTILITY POLE RELOCATION IS AT THE SOLE DISCRETION OF UTILITY COMPANY.

31. CONSULTANT IS NEITHER LIABLE NOR RESPONSIBLE FOR ANY SUBSURFACE CONDITIONS AND FURTHER, SHALL HAVE NO LIABILITY FOR ANY HAZARDOUS MATERIALS, HAZARDOUS SUBSTANCES, OR POLLUTANTS ON, ABOUT OR UNDER THE PROPERTY.

## GENERAL DEMOLITION NOTES

1. THIS PLAN REFERENCE DOCUMENTS AND INFORMATION BY:

- "BOUNDARY, TOPOGRAPHIC & UTILITY SURVEY", PREPARED BY CONTROL POINT ASSOCIATES, INC., DATED 11-06-2018, REVISED THROUGH 12-05-2018.
2. 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 AMENDED AND ANY MODIFICATIONS, AMENDMENTS OR REVISIONS TO SAME.
3. BOHLER ENGINEERING HAS NO CONTRACTUAL, LEGAL, OR OTHER RESPONSIBILITY FOR JOB SITE SAFETY OR JOB SITE SUPERVISION, OR ANYTHING RELATED TO SAME.

4. 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 IMPROVEMENTS.
5. CONTRACTOR MUST RAISE ANY QUESTIONS CONCERNING THE ACCURACY OR INTENT OF THESE PLANS OR SPECIFICATIONS, CONCERNING 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, REQUIREMENTS, STATUTES, ORDINANCES AND CODES.

6. PRIOR TO STARTING ANY DEMOLITION, CONTRACTOR IS RESPONSIBLE FOR TO:
  - 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 EXCAVATION.

7. 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.
8. PROTECTING AND MAINTAINING IN OPERATION, ALL ACTIVE UTILITIES AND SYSTEMS THAT ARE NOT BEING REMOVED DURING ALL DEMOLITION ACTIVITIES.

9. 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.
10. COORDINATING WITH UTILITY COMPANIES REGARDING WORKING "OFF-PEAK" HOURS OR ON WEEKENDS AS MAY BE REQUIRED TO MINIMIZE THE IMPACT ON THE AFFECTED PARTIES. WORK REQUIRED TO BE DONE "OFF-PEAK" IS TO BE DONE AT NO ADDITIONAL COST TO THE OWNER.

11. 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.
12. 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.

13. 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 ONLY NEW MATERIAL FOR REPAIRS AND THE RESTORATION OF ANY ITEMS REPAIRED TO THE PRE-DEMOLITION CONDITION, OR BETTER. CONTRACTOR SHALL PERFORM ALL REPAIRS AT THE CONTRACTOR'S SOLE EXPENSE.
14. THE CONTRACTOR MUST NOT PERFORM ANY EARTH MOVEMENT ACTIVITIES, DEMOLITION OR REMOVAL OF FOUNDATION WALLS, FOOTINGS, OR OTHER MATERIALS WITHIN THE LIMITS OF DISTURBANCE UNLESS SAME IS IN STRICT ACCORDANCE AND CONFORMANCE WITH THE PROJECT PLANS AND SPECIFICATIONS, AND/OR UNDER THE WRITTEN DIRECTION OF THE OWNER'S STRUCTURAL OR GEOTECHNICAL ENGINEER.

15. THE CONTRACTOR MUST BACKFILL ALL EXCAVATION RESULTING FROM, OR INCIDENTAL TO, DEMOLITION ACTIVITIES. BACKFILL MUST BE ACCOMPLISHED WITH APPROVED BACKFILL MATERIALS, AND MUST BE SUFFICIENTLY COMPACTED TO SUPPORT 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.
16. THE CONTRACTOR MUST BACKFILL ALL EXCAVATION RESULTING FROM, OR INCIDENTAL TO, DEMOLITION ACTIVITIES. BACKFILL MUST BE ACCOMPLISHED WITH APPROVED BACKFILL MATERIALS, AND MUST BE SUFFICIENTLY COMPACTED TO SUPPORT NEW IMPROVEMENTS AND PERFORMED IN COMPLIANCE WITH THE RECOMMENDATIONS AND GUIDANCE IN THE GEOTECHNICAL REPORT.

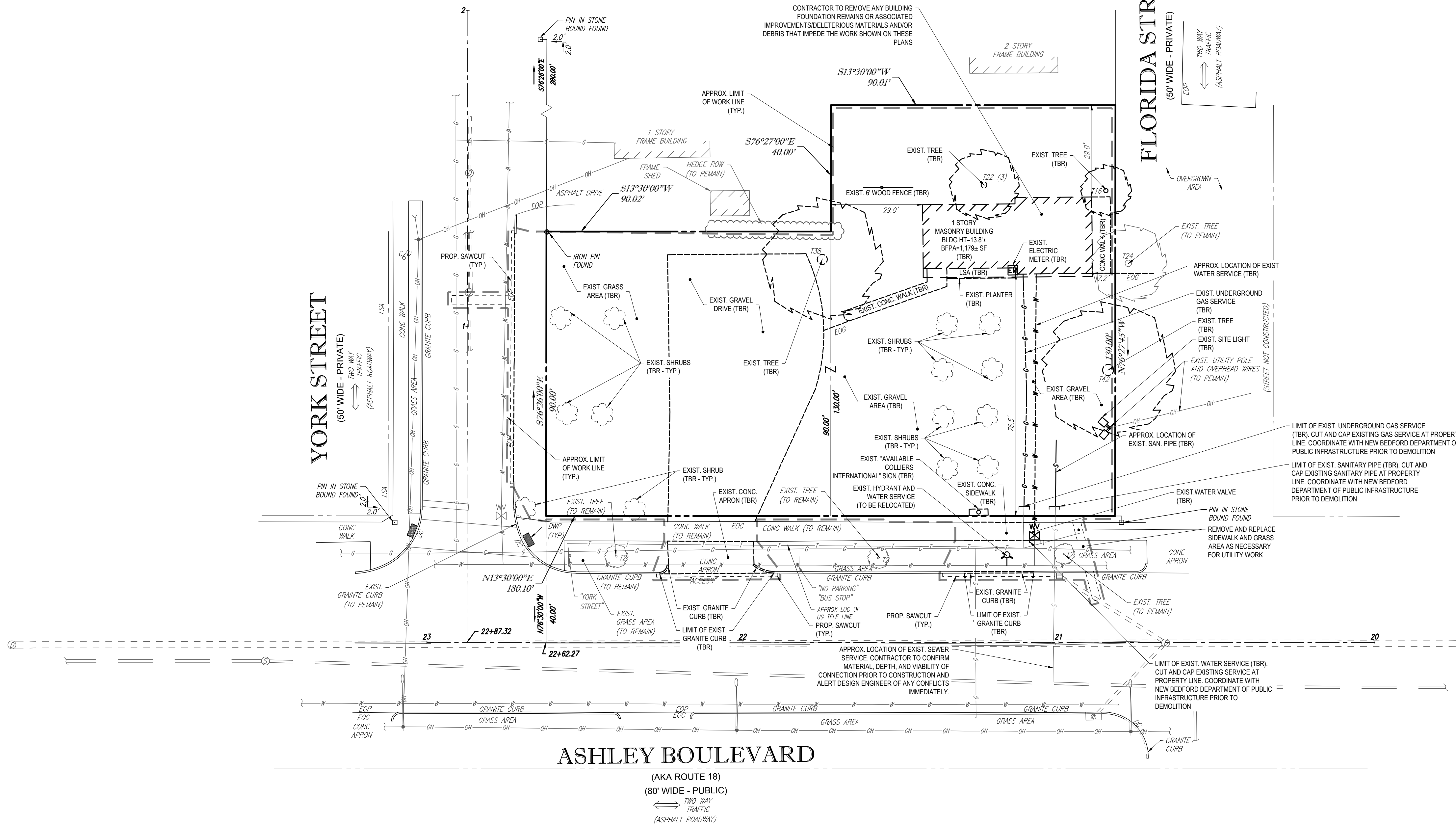
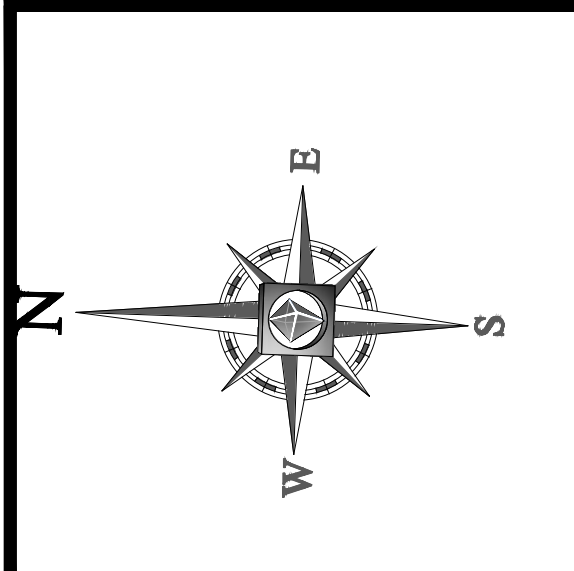
17. EXPLOSIVES MUST NOT BE USED WITHOUT PRIOR WRITTEN CONSENT OF BOTH THE OWNER AND ALL APPLICABLE GOVERNMENTAL AUTHORITIES. ALL THE REQUIRED PERMITS AND EXPLOSIVE CONTROL MEASURES THAT ARE REQUIRED BY THE FEDERAL, STATE, AND LOCAL GOVERNMENTS MUST BE IN PLACE PRIOR TO CONTRACTOR STARTING AN EXPLOSIVE 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.
18. THE 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 RIGHT-OF-WAY.

19. CONTRACTOR MUST CONDUCT DEMOLITION ACTIVITIES IN SUCH A MANNER TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, SIDEWALKS, WALKWAYS, AND OTHER ADJACENT ACTIVITIES. STREET CLOSURE PERMITS MUST BE RECEIVED FROM THE APPROPRIATE GOVERNMENTAL AUTHORITY PRIOR TO THE COMMENCEMENT OF ANY ROAD OPENING OR DEMOLITION ACTIVITIES IN OR ADJACENT TO THE RIGHT-OF-WAY.
20. DEMOLITION ACTIVITIES AND EQUIPMENT MUST NOT USE AREAS OUTSIDE THE DEFINED PROJECT LIMIT LINE, WITHOUT WRITTEN PERMISSION OF THE OWNER AND ALL GOVERNMENTAL AGENCIES WITH JURISDICTION.

21. 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' CONDITION.
22. 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.

23. 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.
24. 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 WITH ALL OSHA AND OTHER SAFETY PRECAUTIONS NECESSARY TO PROVIDE A SAFE WORK SITE.

25. 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 LA

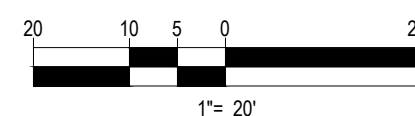


REFER TO GENERAL NOTES SHEET FOR DUST CONTROL MEASURES

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



**Know what's below.**  
Call before you dig.

**BOHLER ENGINEERING**

SITE CIVIL AND CONSULTING ENGINEERING  
 LAND SURVEYING  
 SUSTAINABLE DESIGN  
 PERMITTING SERVICES  
 ARCHITECTURE  
 TRANSPORTATION SERVICES  
 CHICAGO, IL  
 CHARLOTTE, NC  
 COLUMBIANA, OH  
 CINCINNATI, OH  
 DENVER, CO  
 HOUSTON, TX  
 INDIANAPOLIS, IN  
 JACKSONVILLE, FL  
 KANSAS CITY, MO  
 LOS ANGELES, CA  
 MEMPHIS, TN  
 MIAMI, FL  
 MINNEAPOLIS, MN  
 NEW YORK, NY  
 OMAHA, NE  
 PHOENIX, AZ  
 PORTLAND, ME  
 RICHMOND, VA  
 TAMPA, FL  
 WASHINGTON, DC  
 WICHITA, KS  
 WILMINGTON, DE

REVISIONS			
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**PRELIMINARY**

PROJECT No.: W181193  
 DRAWN BY: DJO  
 CHECKED BY: S.J.M./JAB  
 DATE: 12/08/2018  
 SCALE: AS NOTED  
 CAD I.D.: W181193SS0

**SITE DEVELOPMENT PLANS FOR DUNKIN' BRANDS**

LOCATION OF SITE  
 MAP #127D, LOTS #89 & #98  
 970 ASHLEY BLVD  
 CITY OF NEW BEDFORD  
 BRISTOL COUNTY,  
 MASSACHUSETTS

**BOHLER ENGINEERING**

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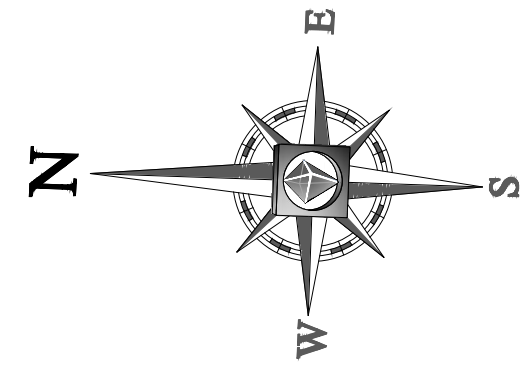
**J. A. Beardino**

SHEET TITLE:  
**DEMOLITION PLAN**

SHEET NUMBER:  
**3**

OF 15

REV 0 - 12/06/2018

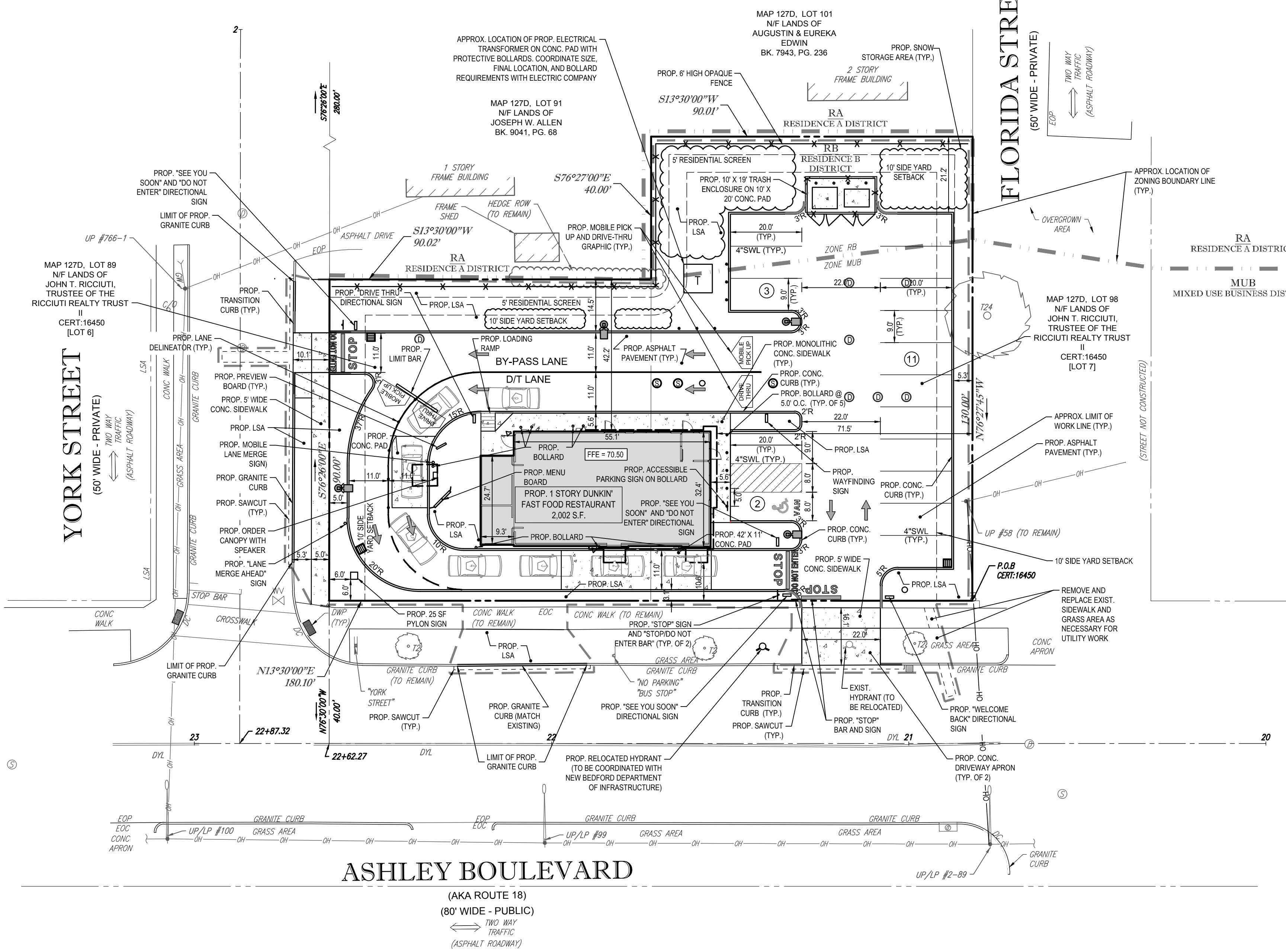


**LAND USE / ZONING INFORMATION & NOTES**

- APPLICANT:  
TOM DAILY  
YEARLY GRIND II REALTY, LLC  
P.O. BOX 51147  
NEW BEDFORD, MA 02745
- OWNER:  
JOHN T. RICCIUTI  
JOHN T. RICCIUTI REALTY TRUST II  
970 ASHLEY BLVD  
NEW BEDFORD, MA 02745
- PARCEL:  
MAP 127D & LOTS #89 & #98  
970 ASHLEY BLVD  
NEW BEDFORD, BRISTOL COUNTY,  
MASSACHUSETTS

ZONING DISTRICT	REQUIRED	EXISTING	PROPOSED
MIXED USE BUSINESS DISTRICT (MUB), RESIDENCE B DISTRICT (RB) - RESTAURANT, FAST-FOOD USE REQUIRES SPECIAL PERMIT FROM THE ZONING BOARD OF APPEALS - COMMERCIAL PARKING IN RB DISTRICT REQUIRES SPECIAL PERMIT FROM THE ZONING BOARD OF APPEALS - A REDUCTION OF REQUIRED PARKING SPACES REQUIRES A SPECIAL PERMIT FROM THE PLANNING BOARD			
MINIMUM LOT AREA	8,000 SF	19,806 SF	NO CHANGE
MINIMUM LOT FRONTAGE	0 FT	80 FT ±	NO CHANGE
MAX. BUILDING COVERAGE	40%	6.0%	10.1%
MIN. FRONT SETBACK	0	76.5 FT	10.6 FT
MIN. SIDE SETBACK	10 FT	7.2 FT	42.2 FT
MIN. REAR SETBACK	10 FT	N/A	N/A
MAX. BUILDING HEIGHT	100 FT	13.8'	23'-1"
MAX. IMPERVIOUS COVERAGE/GREEN SPACE	89.1% / 10.1% (3)	28.4% / 71.6%	69.2% / 30.8%
PARKING SPACES	26	0	16 (2)
PARKING CRITERIA (P&Z)	1 SPACE FOR EACH EMPLOYEE + 1 SPACE PER 100 SF GFA; MINIMUM 20 SPACES + 5 EMPLOYEE + 1 LOADING SPACE = 26 SPACES REQUIRED 16 SPACES PROVIDED (2)		
ACCESSIBLE PARKING SPACES	1	1	1
ACCESSIBLE PARKING CRITERIA (STANDARD SPACE- 8'x18' W/ 8' ACCESS AISLE) (VAN ACCESSIBLE SPACE- 8'x18' W/ 8' ACCESS AISLE)	TOTAL PARKING 1 TO 25 = 1 ACCESSIBLE SPACE VAN ACCESSIBLE SPACES= 1 / 6 SPACES		

N/A - NOT APPLICABLE  
N/S - NOT SPECIFIED  
(1)- SITE REQUIRES SPECIAL PERMIT FROM ZONING BOARD OF APPEALS  
(2)- REQUIRES SPECIAL PERMIT FROM PLANNING BOARD FOR REDUCED NUMBER OF PARKING SPACES  
(3)- 65% MAX. IMPERVIOUS REQUIRED IN RESIDENTIAL DISTRICTS, 100% MAX. IMPERVIOUS COVERAGE FOR OTHER USES  
(4)- A 5' RESIDENTIAL SCREENING BUFFER IS PROVIDED

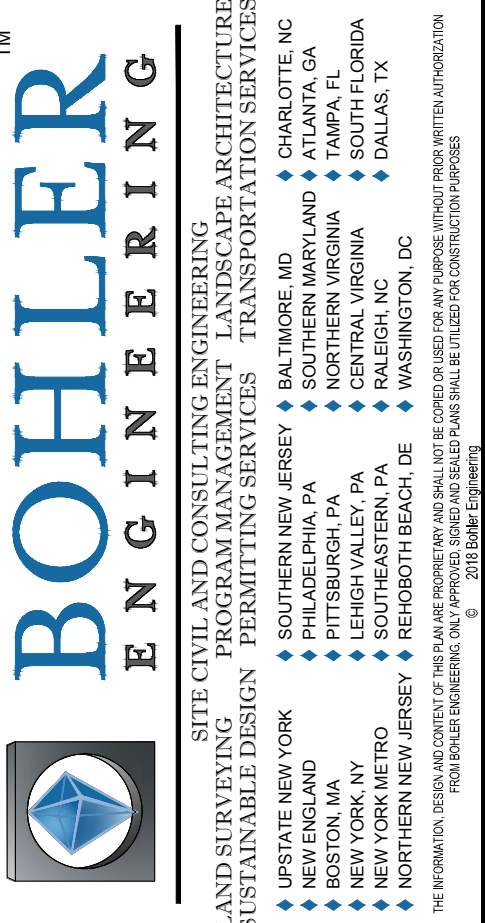
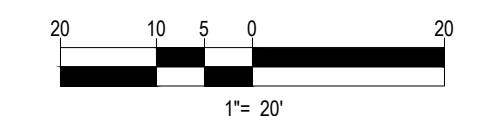


**NEW BEDFORD SPECIFIC NOTES:**

- 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 NEW BEDFORD REQUIREMENTS.
- ALL ACCESSIBLE PARKING, RAMPS, AND ACCESS SHALL CONFORM TO AAB & MAAB REQUIREMENTS.
- ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO CONSTRUCTION. EROSION CONTROL SHALL CONFORM TO THE CITY OF NEW BEDFORD CONSERVATION COMMISSION REQUIREMENTS AS STATED IN THE ORDER OF CONDITIONS. (REFER TO EROSION CONTROL PLAN).
- ALL PAVEMENT MARKINGS AND SIGNS SHALL CONFORM TO MUTCD REQUIREMENTS.

REFER TO GENERAL NOTES SHEET FOR NOTES

THIS PLAN TO BE UTILIZED FOR SITE LAYOUT PURPOSES ONLY



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**PRELIMINARY**  
PROJECT No.: W181193  
DRAWN BY: DJO  
CHECKED BY: S.M.JAB  
DATE: 12/08/2018  
SCALE: AS NOTED  
CAD I.D.: W181193SSD

**SITE DEVELOPMENT PLANS**  
FOR  
**DUNKIN' BRANDS**  
[eatdrinkthink]  
LOCATION OF SITE  
MAP #127D, LOTS #89 & #98  
970 ASHLEY BLVD  
CITY OF NEW BEDFORD  
BRISTOL COUNTY,  
MASSACHUSETTS

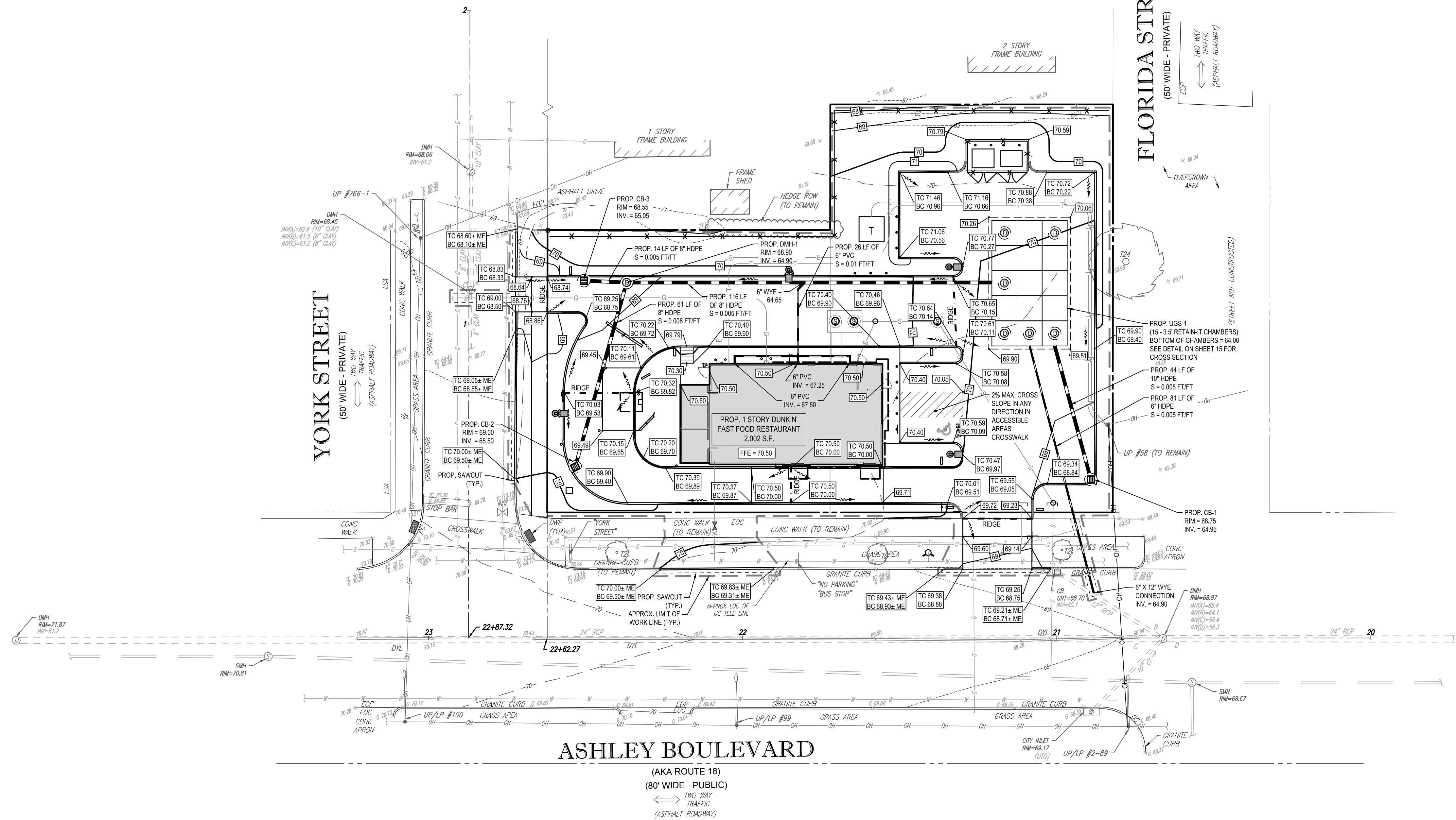
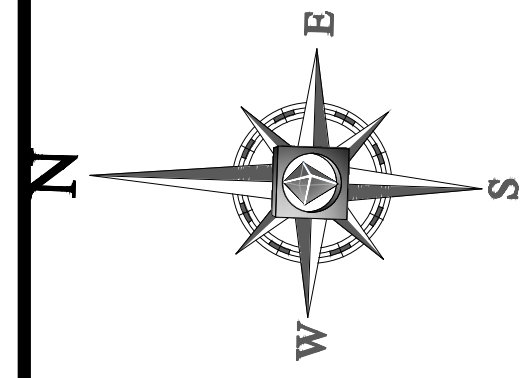
**BOHLER ENGINEERING**  
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Phone: (508) 480-9900  
Fax: (508) 480-9080  
www.BohlerEngineering.com

**J. A. Beardino**  
Professional Engineer  
State of Massachusetts  
Professional Engineer No. 12345

SHEET TITLE:  
**SITE PLAN**  
SHEET NUMBER:  
**4**  
OF 15  
REV 0 - 12/06/2018



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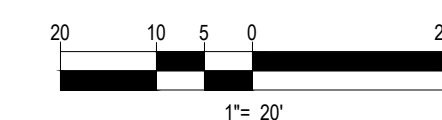


**NEW BEDFORD SPECIFIC NOTES:**

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 BY 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 GRADING & UTILITY NOTES



**Know what's below. Call before you dig.**

**BOHLER ENGINEERING**

SITE CIVIL AND CONSULTING ENGINEERING ARCHITECTURE  
 LAND SURVEYING DESIGN PERMITTING SERVICES TRANSPORTATION SERVICES  
 SUSTAINABLE DESIGN

NEW BEDFORD, MA  
 CHARLOTTE, NC  
 CHANT, GA  
 CENTRAL VIRGINIA  
 DALLAS, TX  
 FORT LAUDERDALE, FL  
 GREENSBORO, NC  
 HARTFORD, CT  
 HENRIEVILLE, NY  
 LITTLE ROCK, AR  
 MEMPHIS, TN  
 NEW YORK, NY  
 PHILADELPHIA, PA  
 PITTSBURGH, PA  
 RICHMOND, VA  
 SOUTH BEND, IN  
 SOUTH FORT WORTH, TX  
 TAMPA, FL  
 WASHINGTON, DC

**REVISIONS**

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**PRELIMINARY**

PROJECT No.: W18193  
 DRAWN BY: DJO  
 CHECKED BY: S.J.M.JAB  
 DATE: 12/08/2018  
 SCALE: AS NOTED  
 CAD I.D.: W18193SS0

**SITE DEVELOPMENT PLANS FOR DUNKIN' BRANDS**

LOCATION OF SITE  
 MAP #127D, LOTS #89 & #98  
 970 ASHLEY BLVD  
 CITY OF NEW BEDFORD  
 BRISTOL COUNTY,  
 MASSACHUSETTS

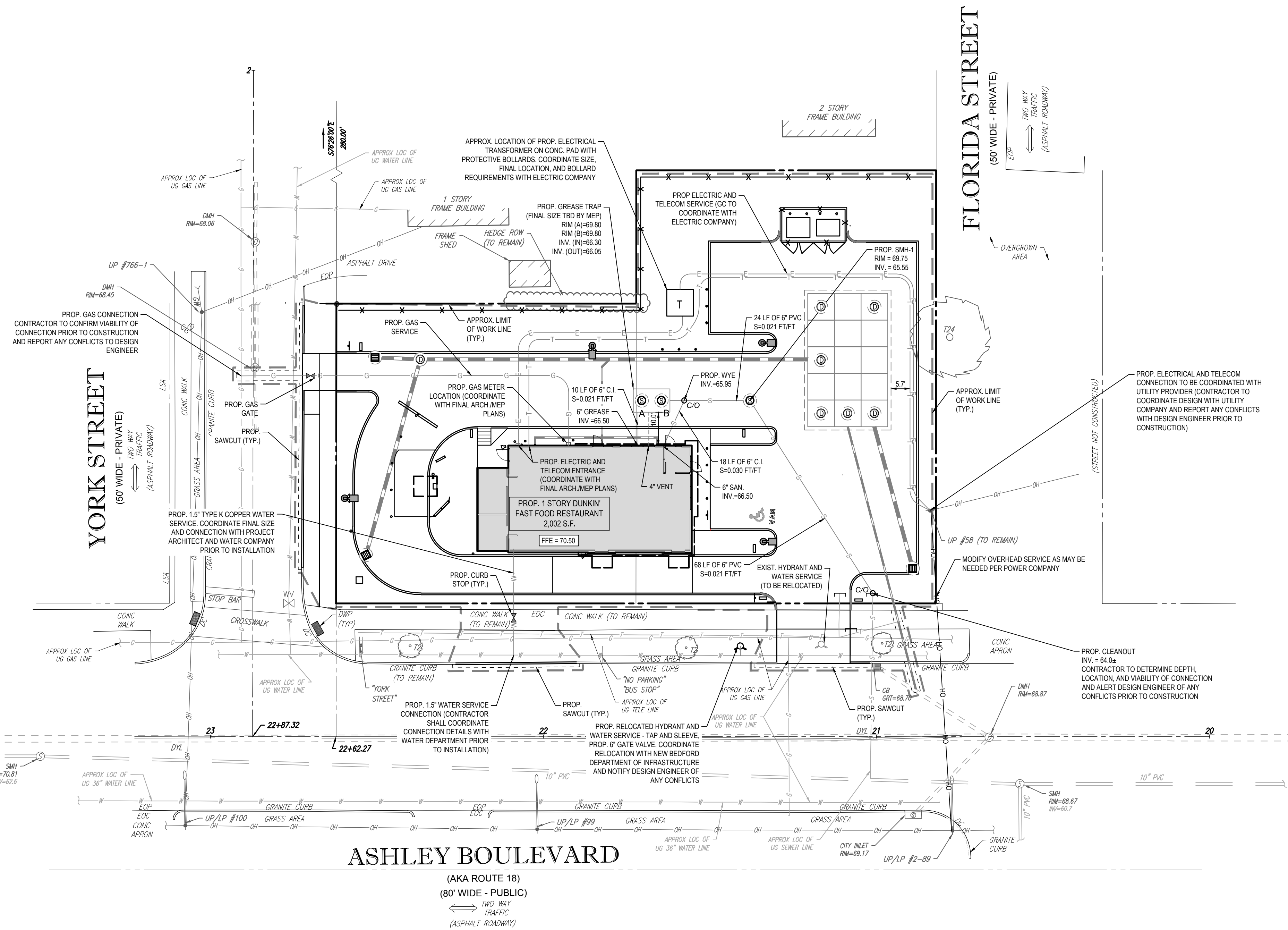
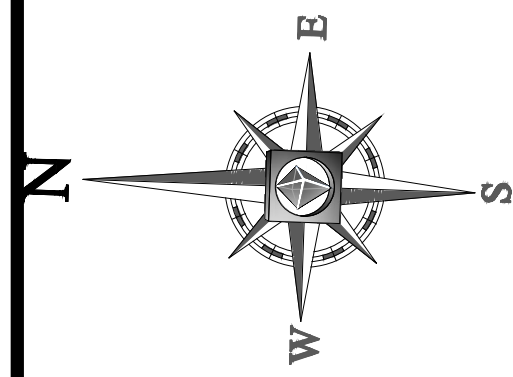
**BOHLER ENGINEERING**

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 Phone: (508) 480-9900  
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[www.BohlerEngineering.com](http://www.BohlerEngineering.com)

**J. A. Beardino**  
 PROFESSIONAL ENGINEER  
 LICENSE # 12432  
 STATE OF MASSACHUSETTS

SHEET TITLE:  
**GRADING & DRAINAGE PLAN**

SHEET NUMBER:  
**5**  
 OF 15



**BOHLER ENGINEERING**

SITE CIVIL AND CONSULTING ENGINEERING ARCHITECTURE  
 LAND SURVEYING DESIGN PERMITTING SERVICES TRANSPORTATION SERVICES  
 SUSTAINABLE DESIGN

CHARLOTTE, NC  
 CHICAGO, IL  
 COLUMBIA, SC  
 DALLAS, TX  
 DENVER, CO  
 HOUSTON, TX  
 INDIANAPOLIS, IN  
 JACKSONVILLE, FL  
 KANSAS CITY, MO  
 LOS ANGELES, CA  
 MEMPHIS, TN  
 MIAMI, FL  
 MINNEAPOLIS, MN  
 NEW YORK, NY  
 OMAHA, NE  
 PHOENIX, AZ  
 RICHMOND, VA  
 SAN ANTONIO, TX  
 TAMPA, FL  
 WASHINGTON, DC

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PRELIMINARY

PROJECT No.: W181193  
 DRAWN BY: DJO  
 CHECKED BY: S.M.JAB  
 DATE: 12/08/2018  
 SCALE: AS NOTED  
 CAD I.D.: W181193SS0

PROJECT: **SITE DEVELOPMENT PLANS** FOR **DUNKIN' BRANDS**

LOCATION OF SITE  
 MAP #127D, LOTS #89 & #98  
 970 ASHLEY BLVD  
 CITY OF NEW BEDFORD  
 BRISTOL COUNTY,  
 MASSACHUSETTS

**BOHLER ENGINEERING**

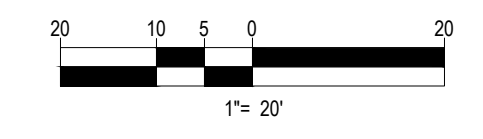
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**J. A. Beardino**

Professional Engineer  
 State of Massachusetts  
 License No. 10000

THIS PLAN TO BE UTILIZED FOR UTILITIES PURPOSES ONLY

REFER TO GENERAL NOTES SHEET FOR GRADING & UTILITY NOTES



SHEET TITLE: **UTILITY PLAN**

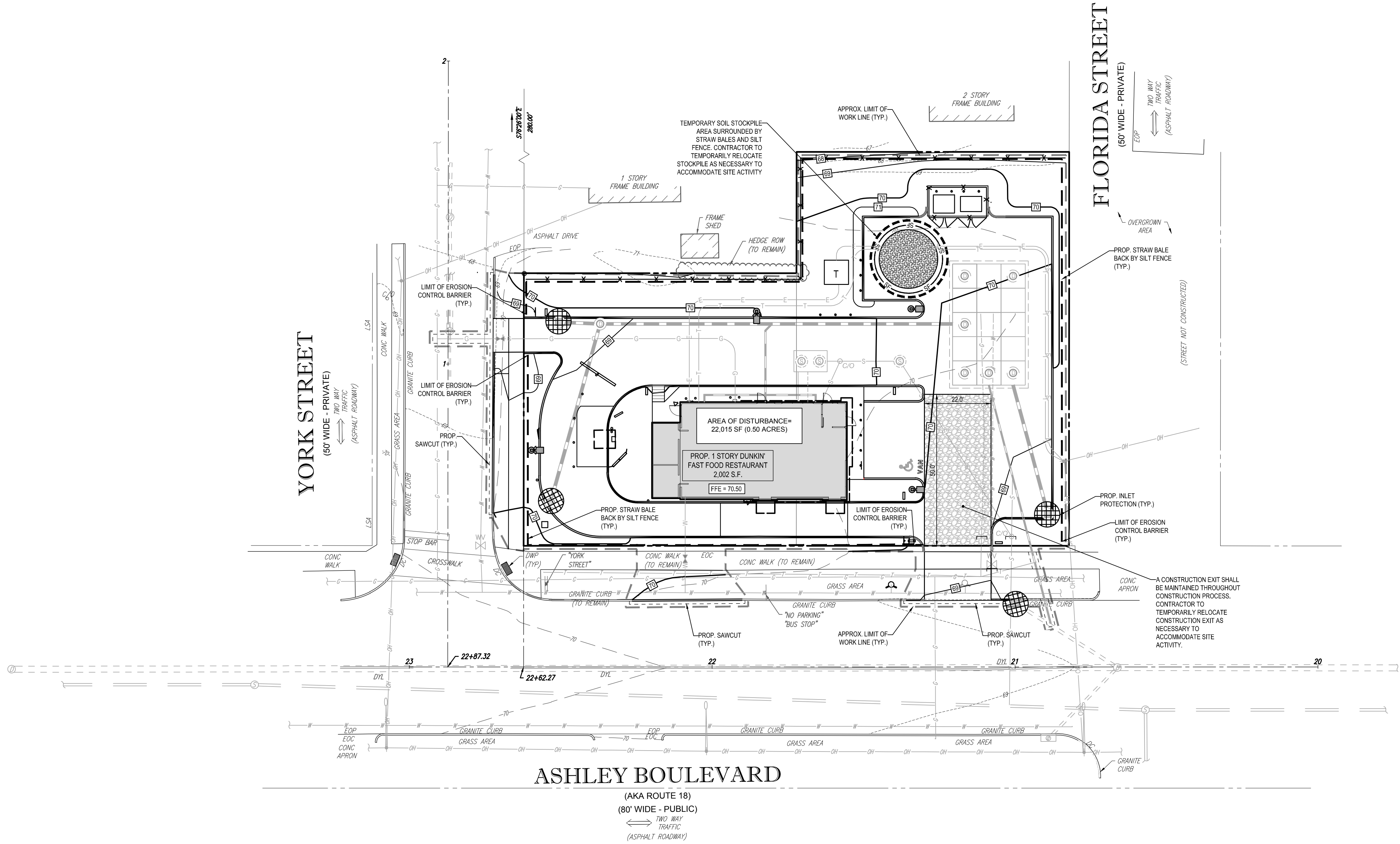
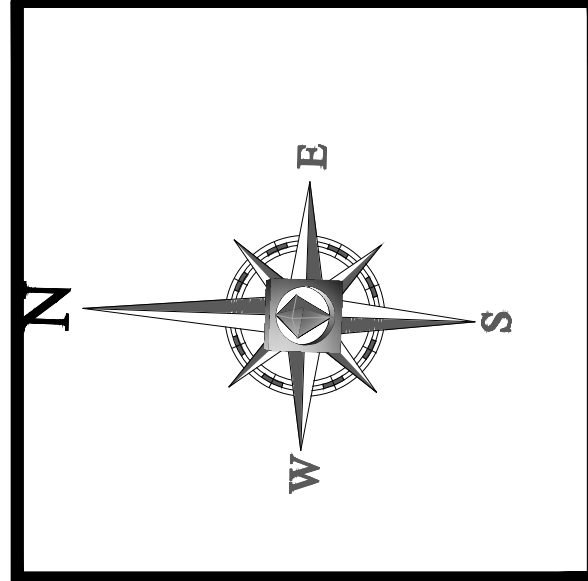
SHEET NUMBER: **6** OF 15

REV 0 - 12/06/2018

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**811**

Know what's below.  
 Call before you dig.



**ASHLEY BOULEVARD**  
 (AKA ROUTE 18)  
 (80' WIDE - PUBLIC)  
 TWO WAY TRAFFIC  
 (ASPHALT ROADWAY)

**FLORIDA STREET**  
 (60' WIDE - PRIVATE)  
 TWO WAY TRAFFIC  
 (ASPHALT ROADWAY)

**YORK STREET**  
 (50' WIDE - PRIVATE)  
 TWO WAY TRAFFIC  
 (ASPHALT ROADWAY)

**NEW BEDFORD SPECIFIC NOTES:**

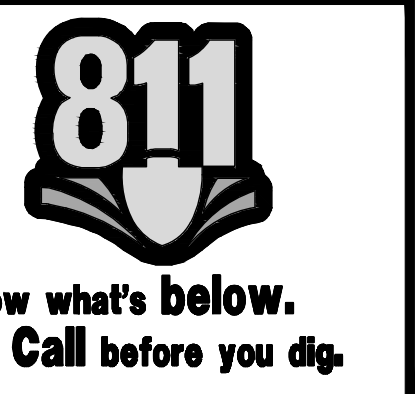
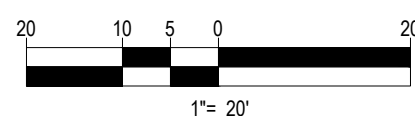
- ALL BMP EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO DEMOLITION OR ANY SITE WORK.
- EROSION CONTROL BMPs SHALL CONFORM TO US EPA NPDES, MA DEP AND MASSACHUSETTS EROSION CONTROL AND SEDIMENTATION CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS.
- MAINTENANCE SPECIFICATIONS FOR ALL PROPOSED EROSION AND SEDIMENTATION CONTROLS.

REFER TO 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



**BOHLER ENGINEERING**  
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 INDIANAPOLIS, IN  
 JACKSONVILLE, FL  
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 LOS ANGELES, CA  
 MEMPHIS, TN  
 MIAMI, FL  
 MILWAUKEE, WI  
 MINNEAPOLIS, MN  
 NEW YORK, NY  
 OMAHA, NE  
 PHOENIX, AZ  
 RICHMOND, VA  
 TAMPA, FL  
 WASHINGTON, DC  
 WICHITA, KS

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**PRELIMINARY**

PROJECT No.: W181193  
 DRAWN BY: DJO  
 CHECKED BY: S.M.JAB  
 DATE: 12/06/2018  
 SCALE: AS NOTED  
 CAD I.D.: W181193SS0

**SITE DEVELOPMENT PLANS**  
 FOR  
**DUNKIN' BRANDS**  
 [eatdrinkthink]  
 LOCATION OF SITE  
 MAP #127D, LOTS #89 & #98  
 970 ASHLEY BLVD  
 CITY OF NEW BEDFORD  
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**J. A. Beardino**  
 JAMES A. BEARDINO  
 REGISTERED PROFESSIONAL ENGINEER  
 LICENSE # 10000  
 STATE OF MASSACHUSETTS  
 PROFESSIONAL SEAL

SHEET TITLE:  
**SOIL EROSION & SEDIMENT CONTROL PLAN**

SHEET NUMBER:  
**7**  
 OF 15

REV 0 - 12/06/2018

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## EROSION & SEDIMENT CONTROL NOTES

- ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE DONE AS SET FORTH IN THE MOST CURRENT STATE SEDIMENT AND EROSION CONTROL MANUAL.
- THOSE AREAS UNDERGOING ACTUAL CONSTRUCTION WILL BE LEFT IN AN UNTREATED OR UNVEGETATED CONDITION FOR A MINIMUM 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).
- 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 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.
- ALL EROSION CONTROL STRUCTURES WILL BE INSPECTED, REPLACED AND/OR REPAIRED EVERY 7 DAYS AND IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL OR SNOW MELT OR WHEN NO LONGER SERVICEABLE DUE TO SEDIMENT ACCUMULATION OR DECOMPOSITION. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN 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).
- 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.
- TEMPORARY SEEDING OF DISTURBED AREAS THAT HAVE NOT BEEN FINAL GRADED SHALL BE COMPLETED 45 DAYS PRIOR TO THE FIRST KILLING FROST TO PROTECT FROM SPRING RUNOFF PROBLEMS.
- DURING THE CONSTRUCTION PHASE, INTERCEPTED SEDIMENT WILL BE RETURNED TO THE SITE AND REGRADED ONTO OPEN AREAS.
- REVEGETATION MEASURES WILL COME UPON COMPLETION OF CONSTRUCTION EXCEPT AS NOTED ABOVE. ALL DISTURBED AREAS NOT OTHERWISE STABILIZED WILL BE GRADED, SMOOTHED, AND PREPARED FOR FINAL SEEDING AS FOLLOWS:
  - SIX INCHES OF LOAM WILL BE SPREAD OVER DISTURBED AREAS AND SMOOTHED TO A UNIFORM SURFACE.
  - APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, 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 10-20-20 OR EQUIVALENT. APPLY GROUND LIMESTONE (EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDE) AT A RATE OF 3 TONS PER ACRE (138 LB PER 1,000 SF).
  - FOLLOWING SEED BED PREPARATION, DITCHES AND BACK SLOPES WILL BE SEED TO A MIXTURE OF 47% CREEPING RED FESCUE, 5% REDTOP, AND 48% TALL FESCUE. THE LAWN AREAS WILL BE SEED TO A PREMIUM TURF MIXTURE OF 44% KENTUCKY BLUEGRASS, 44% CREEPING RED FESCUE, AND 12% PERENNIAL RYEGRASS. SEEDING RATE IS 1.03 LBS PER 1,000 SF. LAWN QUALITY SOO 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 CONTROL.
- ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED ONCE THE SITE IS STABILIZED.
- WETLANDS WILL BE PROTECTED WITH STRAW BALES AND/OR SILT FENCE 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.
- ALL AREAS WITHIN 100 FEET OF A FLAGGED WETLAND OR STREAM SHALL FOLLOW APPROPRIATE EROSION CONTROL MEASURES PRIOR TO EACH STORM IF NOT BEING ACTIVELY WORKED.

### MULCH

LOCATION	MULCH	RATE (1000 SF)
PROTECT AREA	STRAW	100 POUNDS
WINDY AREA	SHREDDED OR CHOPPED CORNSTALKS STRAW (ANCHORED)	185-275 POUNDS 100 POUNDS
MODERATE TO HIGH VELOCITY AREAS OR STEEP SLOPES GREATER THAN 3:1	JUTE MESH OR EXCELSIOR MAT	AS REQUIRED
GREATER THAN 3:1	(REFER TO GEOTECHNICAL REPORT FOR FINAL DESIGN REQUIREMENT)	

\*A HYDRO-APPLICATION OF WOOD, OR PAPER FIBER MAY BE APPLIED FOLLOWING SEEDING. A SUITABLE BINDER SUCH AS CURASOL OR RMB PLUS SHALL BE USED ON STRAW MULCH FOR WIND CONTROL.

**MULCH ANCHORING**  
ANCHOR MULCH WITH PEG AND TWINE (1 SO, YODBLOCK); MULCH NETTING (AS PER MANUFACTURER); WOOD CELLULOSE FIBER (750 LBS/ACRE); CHEMICAL TACKY (AS PER MANUFACTURER'S SPECIFICATIONS); USE OF A SERRATED STRAIGHT DISK, WETTING FOR SMALL AREAS AND ROAD DITCHES MAY BE PERMITTED.

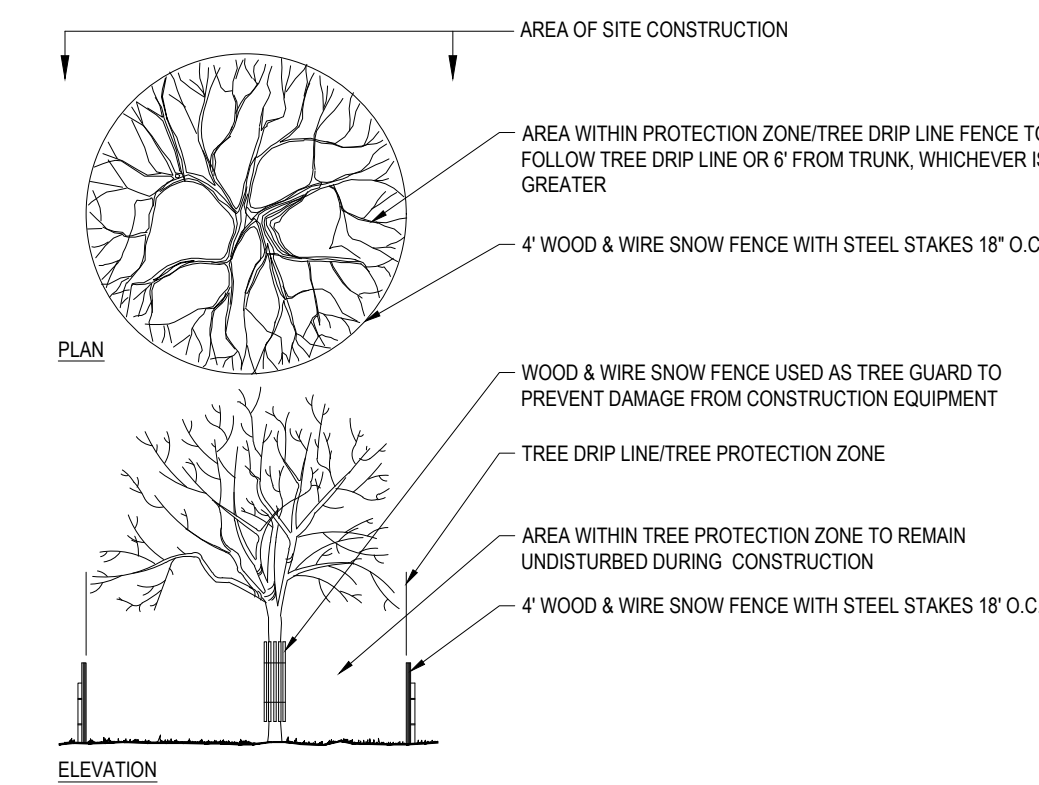
## EROSION CONTROL NOTES DURING WINTER CONSTRUCTION

- WINTER CONSTRUCTION PERIOD: NOVEMBER 1 THROUGH APRIL 15.
- WINTER EXCAVATION AND EARTHWORK SHALL BE DONE SUCH THAT NO MORE THAN 1 ACRE OF THE SITE IS WITHOUT STABILIZATION AT ANY ONE TIME.
- EXPOSED AREA SHOULD BE LIMITED TO THAT WHICH CAN BE MULCHED IN ONE DAY PRIOR TO ANY SNOW EVENT.
- CONTINUATION OF EARTHWORK OPERATION ON ADDITIONAL AREAS SHALL NOT BEGIN UNTIL THE EXPOSED SOIL SURFACE ON THE AREA BEING WORKED HAS BEEN STABILIZED SUCH THAT NO LARGER AREA OF THE SITE IS WITHOUT EROSION CONTROL PROTECTION AS LISTED IN ITEM 2 ABOVE.
- AN AREA SHALL BE CONSIDERED TO HAVE BEEN STABILIZED WHEN EXPOSED SURFACES HAVE BEEN EITHER MULCHED WITH STRAW OR STW AT A RATE OF 100 LB. PER 1,000 SQUARE FEET (WITH OR WITHOUT SEEDING) OR DORMANT SEEDING, MULCHED AND ADEQUATELY ANCHORED BY AN APPROVED ANCHORING TECHNIQUE.
- BETWEEN THE DATES OF OCTOBER 15 AND APRIL 15TH, 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 SEEDING 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 LOADED, FINAL GRADED AND IS SMOOTH, THEN THE AREA MAY BE DORMANT SEEDING AT A RATE OF 200 - 300% HIGHER THAN SPECIFIED FOR PERMANENT SEED AND THEN MULCHED. IF CONSTRUCTION CONTINUES DURING FREEZING 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 UNPROTECTED OVER THE WINTER OR ANY OTHER EXTENDED TIME OF WORK SUSPENSION UNLESS TREATED IN THE ABOVE MANNER. WHEN THIS IS NOT POSSIBLE, THE AREAS SHALL BE PROTECTED BY AN APPROVED ANCHORING TECHNIQUE. SURFACE TREATMENT, EROSION SHALL BE CONTROLLED BY THE INSTALLATION OF BALES OF STW OR STONE CHECK DAMS IN ACCORDANCE WITH THE STANDARD DETAILS.
- MULCHING REQUIREMENTS:
  - BETWEEN THE DATES OF NOVEMBER 1ST AND APRIL 15TH ALL MULCH SHALL BE ANCHORED BY EITHER PEG LINE, MULCH NETTING OR WOOD CELLULOSE FIBER.
  - MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL DRAINAGE WAYS WITH A SLOPE GREATER THAN 3% FOR SLOPE EXPOSED TO DIRECT WINDS AND FOR ALL OTHER SLOPES GREATER THAN 8%.
  - MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL AREAS WITH SLOPES GREATER THAN 15% AFTER OCTOBER 1ST THE SAME APPLIES FOR ALL SLOPES GREATER THAN 8%.
- AFTER NOVEMBER 1ST THE CONTRACTOR SHALL APPLY DORMANT SEEDING OR MULCH AND ANCHORING ON ALL BARE EARTH AT THE END OF EACH WORKING DAY.
- DURING THE WINTER CONSTRUCTION PERIOD ALL SNOW SHALL BE REMOVED FROM AREAS OF SEEDING AND MULCHING PRIOR TO PLACEMENT.
- STOCKPILING OF MATERIALS (DIRT, WOOD, CONSTRUCTION MATERIALS, ETC.) MUST REMAIN COVERED AT ALL TIMES TO MINIMIZE ANY DUST PROBLEMS THAT MAY OCCUR WITH ADJACENT PROPERTIES AND TO PROVIDE MAXIMUM PROTECTION AGAINST EROSION RUNOFF.
- EXISTING CATCH BASIN STRUCTURES SHALL BE PROTECTED UNTIL SUCH TIME AS THEY ARE REMOVED.

## CONSTRUCTION SEQUENCE

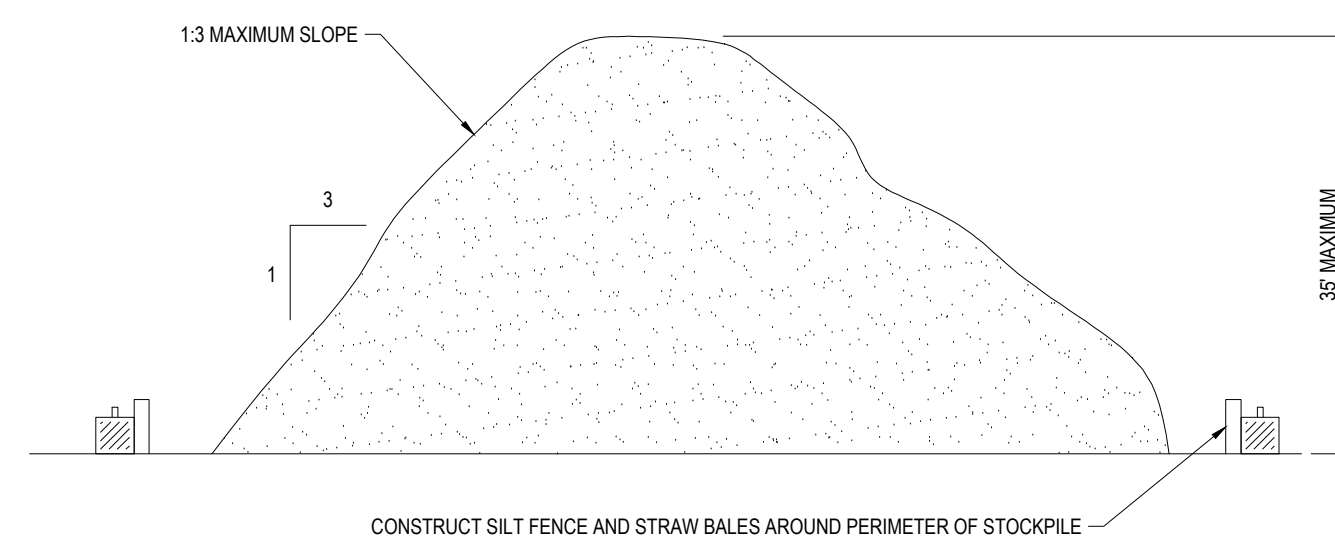
THE FOLLOWING CONSTRUCTION SEQUENCE IS RECOMMENDED:

- ALL BMP EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO DEMOLITION OR ANY SITE WORK.
  - INSTALLATION OF STABILIZED CONSTRUCTION EXIT (AS SHOWN)
  - INSTALLATION OF EROSION CONTROL BARRIER (STRAW BALES AND SILT FENCE) (AS SHOWN)
  - DEMOLITION OF EXISTING SITE STRUCTURES (SEE DEMOLITION PLAN)
  - DEMOLITION OF EXISTING SITE PAVEMENT AND AMENITIES (SEE DEMOLITION PLAN)
  - CLEARING AND GRUBBING
  - EARTHWORK AND EXCAVATION/FILLING AS NECESSARY
  - CONSTRUCTION OF UTILITIES
  - STABILIZE PERMANENT LAWN AREAS AND SLOPES WITH TEMPORARY SEEDING
  - INSTALLATION OF INLET PROTECTION OF ON-SITE UTILITIES (AS SHOWN)
  - CONSTRUCTION OF BUILDINGS
  - CONSTRUCTION OF ALL CURBING AND LANDSCAPE ISLANDS AS INDICATED ON THE PLANS
  - SPREAD TOPSOIL ON SLOPED AREAS AND SEED AND MULCH
  - FINAL GRADING OF ALL SLOPED AREAS
  - PLACE 6" TOPSOIL ON SLOPES AFTER FINAL GRADING COMPLETED. FERTILIZE, SEED, AND MULCH SEED MIXTURE TO BE INSTALLED AS REQUIRED.
  - PAVE PARKING LOT
  - LANDSCAPING PER LANDSCAPING PLAN
  - REMOVE EROSION CONTROLS AS DISTURBED AREAS BECOME STABILIZED TO 70% STABILIZATION OR GREATER.
- EROSION CONTROL BMP'S SHALL CONFORM TO US EPA, NPDES, MA DEP AND MASSACHUSETTS EROSION AND SEDIMENTATION CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS
- MAINTENANCE SPECIFICATIONS FOR ALL PROPOSED EROSION AND SEDIMENTATION CONTROLS.



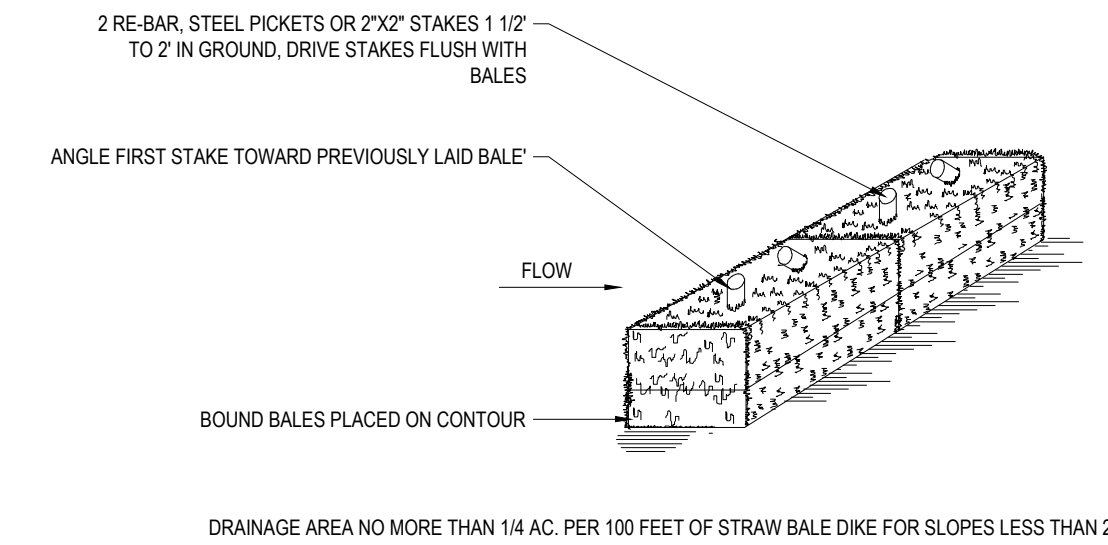
## TREE PROTECTION DURING CONSTRUCTION

N.T.S.



## TEMPORARY STOCKPILE DETAIL

N.T.S.

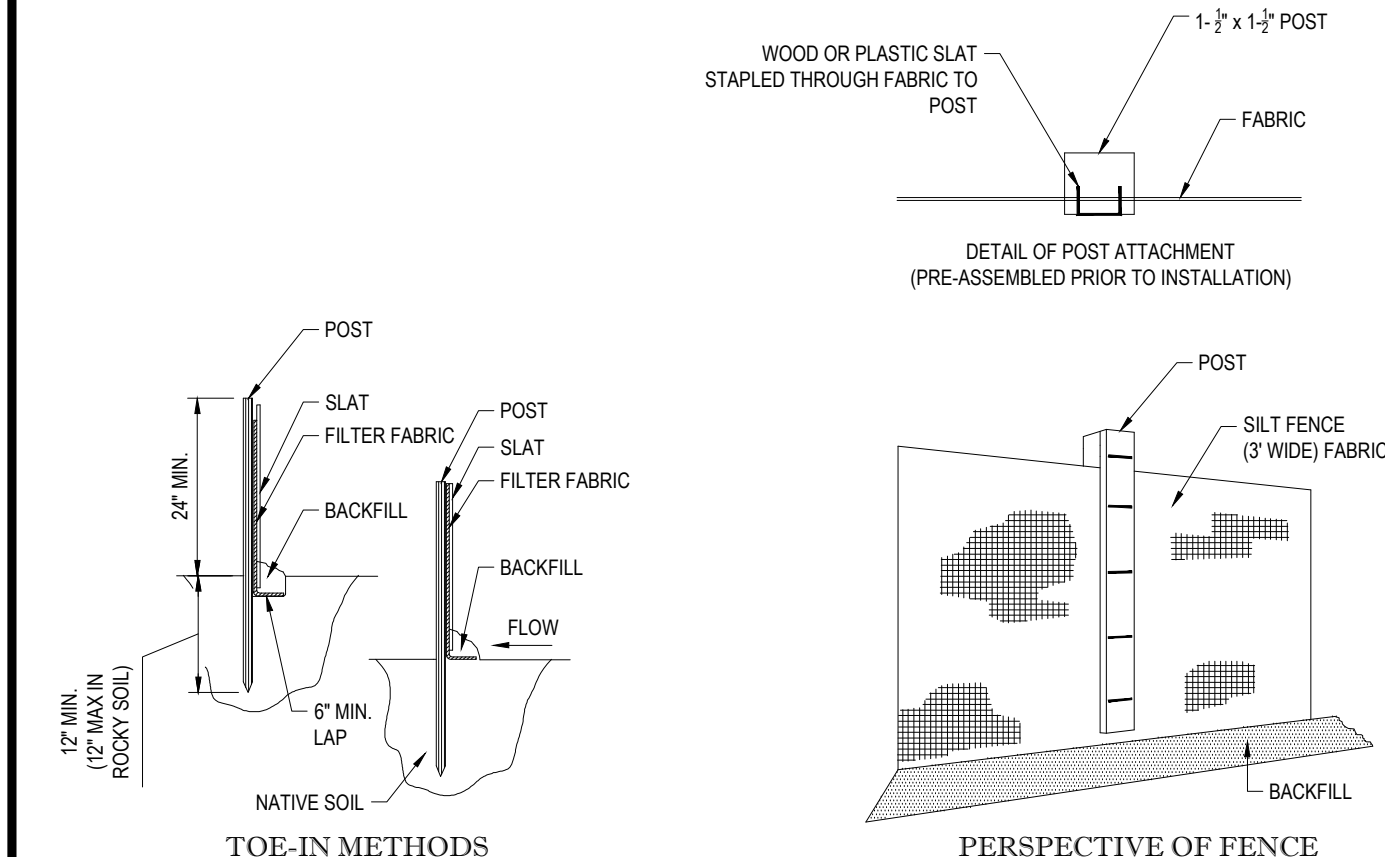


- NOTES:
- BALES SHALL BE PLACED AT THE TOP OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
  - EACH BALE SHALL BE PLACED SO THE BINDINGS ARE HORIZONTAL.
  - BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
  - INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE PROMPTLY AS NEEDED.
  - BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

## STRAW BALE DETAIL

N.T.S.

- INSTALLATION:
- EXCAVATE A 6"x 6" TRENCH ALONG THE LINE OF EROSION CONTROL OF THE SITE.
  - UNROLL SILTATION FENCE AND POSITION THE POSTS AGAINST THE BACK (DOWNSTREAM) WALL OF THE TRENCH (NET SIDE AWAY FROM FLOW DIRECTION).
  - DRIVE THE POST INTO THE GROUND UNTIL THE NETTING IS LAYING ACROSS THE TRENCH BOTTOM.
  - LAY THE TOE-IN FLAP OF THE FABRIC ONTO THE UNDISTURBED BOTTOM OF THE TRENCH BACKFILL THE TRENCH AND TAMP THE SOIL. TOE-IN CAN ALSO BE ACCOMPLISHED BY LAYING FABRIC FLAP ON UNDISTURBED GROUND AND PILING & TAMING FILL AT THE BASE.



## TYP. SILTATION FENCE DETAIL

N.T.S.

LOW TO MODERATE FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE		
PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	300 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20%
PUNCTURE	ASTM D-4833	120 LBS
MULLEN BURST	ASTM D-3786	800 PSI
TRAPEZOID TEAR	ASTM D-4533	120 LBS
UV RESISTANCE	ASTM D-4355	80%
APPARENT OPENING SIZE	ASTM D-4751	40 US SIEVE
FLOW RATE	ASTM D-4491	40 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	0.55 SEC - 1

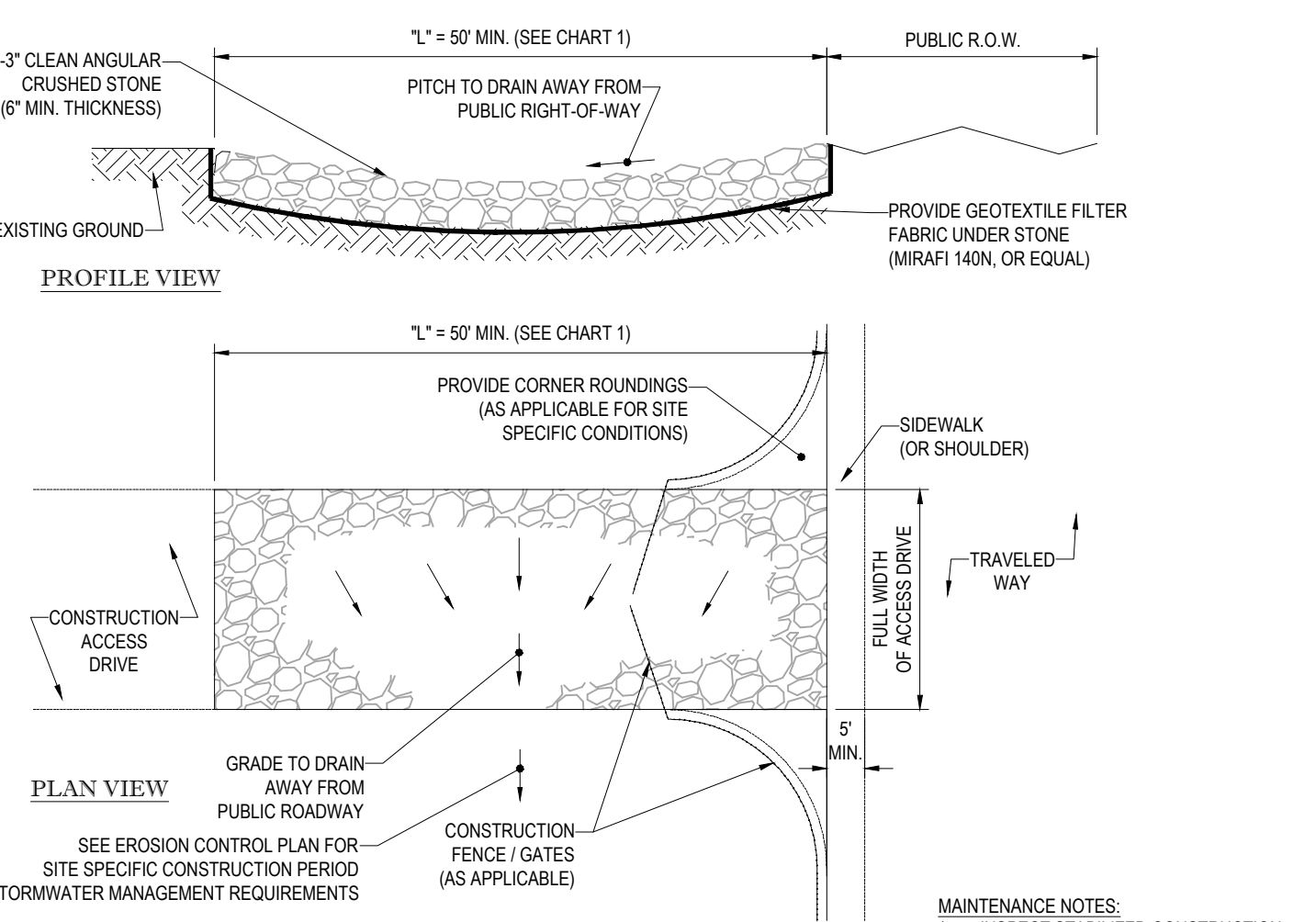
MODERATE TO HIGH FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE		
PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	265 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20%
PUNCTURE	ASTM D-4833	135 LBS
MULLEN BURST	ASTM D-3786	420 PSF
TRAPEZOID TEAR	ASTM D-4533	45 LBS
UV RESISTANCE	ASTM D-4355	90%
APPARENT OPENING SIZE	ASTM D-4751	20 US SIEVE
FLOW RATE	ASTM D-4491	300 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	1.5 SEC - 1

- REMOVE TRAPPED SEDIMENT WHEN BRIGHTLY COLORED EXPANSION RESTRAINT CAN NO LONGER BE SEEN.
- GEOTEXTILE SHALL BE A WOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS REQUIREMENTS IN THE SPECIFICATIONS TABLE.
- PLACE AN OIL ADSORBENT PAD OR PLOW OVER INLET GRATE WHEN OIL SPILLS ARE A CONCERN.
- INSPECT PER REGULATORY REQUIREMENTS.
- THE WIDTH, "W," OF THE FILTER SACK SHALL MATCH THE INSIDE WIDTH OF THE GRATED INLET BOX.
- THE DEPTH, "D," OF THE FILTER SACK SHALL BE BETWEEN 18 INCHES AND 36 INCHES.
- THE LENGTH, "L," OF THE FILTER SACK SHALL MATCH THE INSIDE LENGTH OF THE GRATED INLET BOX.

DO NOT USE IN PAVED AREAS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.  
TO BE USED IN EXISTING RIGHT OF WAY

## FILTER SACKS (GRATED INLETS)

N.T.S.



**CHART 1**

PERCENT SLOPE OF ROADWAY	LENGTH OF STONE REQUIRED	
	COARSE GRAINED SOILS	FINE GRAINED SOILS
0 TO 2%	50 FT	100 FT
2% TO 5%	100 FT	200 FT
>5%	ENTIRE ENTRANCE STABILIZED WITH FABC BASE COURSE (1)	

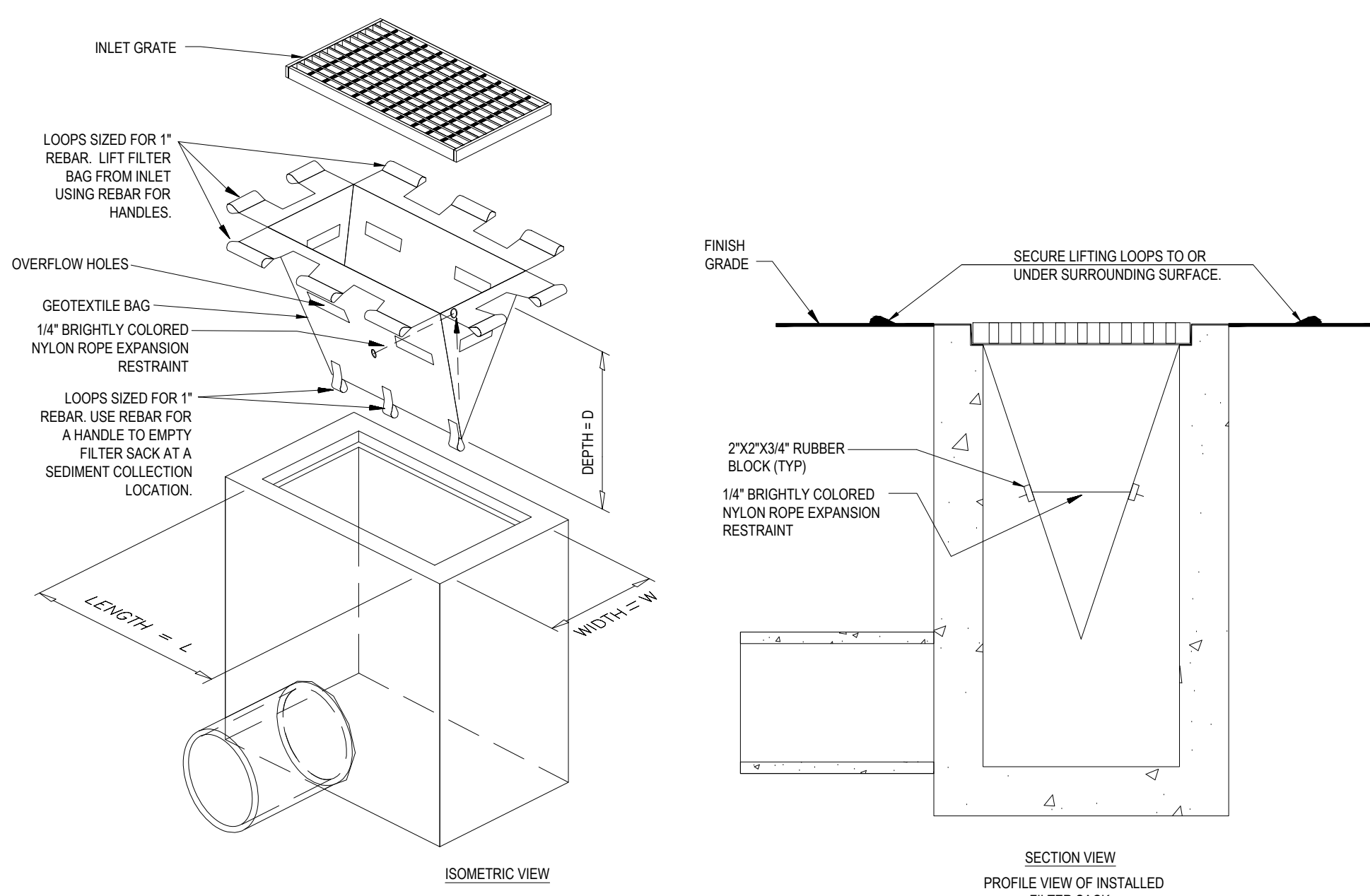
(1) AS PRESCRIBED BY LOCAL ORDINANCE OR OTHER GOVERNING AUTHORITY.

**MAINTENANCE NOTES:**

- INSPECT STABILIZED CONSTRUCTION ENTRANCE / ANTI-TRACKING PAD AND SEDIMENT DISPOSAL AREA WEEKLY OR AFTER EVERY MAJOR RAIN STORM EVENT.
- WASH WATER (IF USED) SHALL BE DIRECTED TOWARD A SEDIMENT TRAP, SUFFICIENTLY SIZED FOR SPECIFIC SITE CONDITIONS.
- EXCESSIVELY MUD-CLOGGED STONE SHALL BE REMOVED AND REPLACED, AS NEEDED.

## STABILIZED CONSTRUCTION EXIT

N.T.S.



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- SOUTH PLAZA, GA
- THE WOODBURY, NJ
- WESTPORT, MA

### REVISIONS

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### PRELIMINARY

PROJECT No.:	W181193
DRAWN BY:	DJO
CHECKED BY:	SJM/JAB
DATE:	12/06/2018
SCALE:	AS NOTED
CAD I.D.:	W181193SD0

## PROJECT: SITE DEVELOPMENT PLANS FOR



LOCATION OF SITE  
MAP #127D, LOTS #89 & #98  
970 ASHLEY BLVD  
CITY OF NEW BEDFORD  
BRISTOL COUNTY,  
MASSACHUSETTS

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**J. A. Bozardino**

Professional Engineer  
No. 6540  
State of Massachusetts  
Civil Engineering

## SHEET TITLE: SOIL EROSION CONTROL NOTES & DETAILS SHEET

SHEET NUMBER:  
8  
OF 15

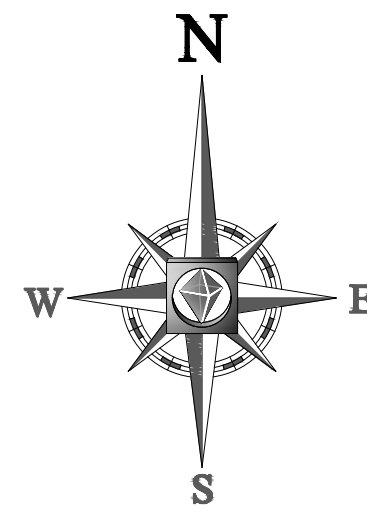
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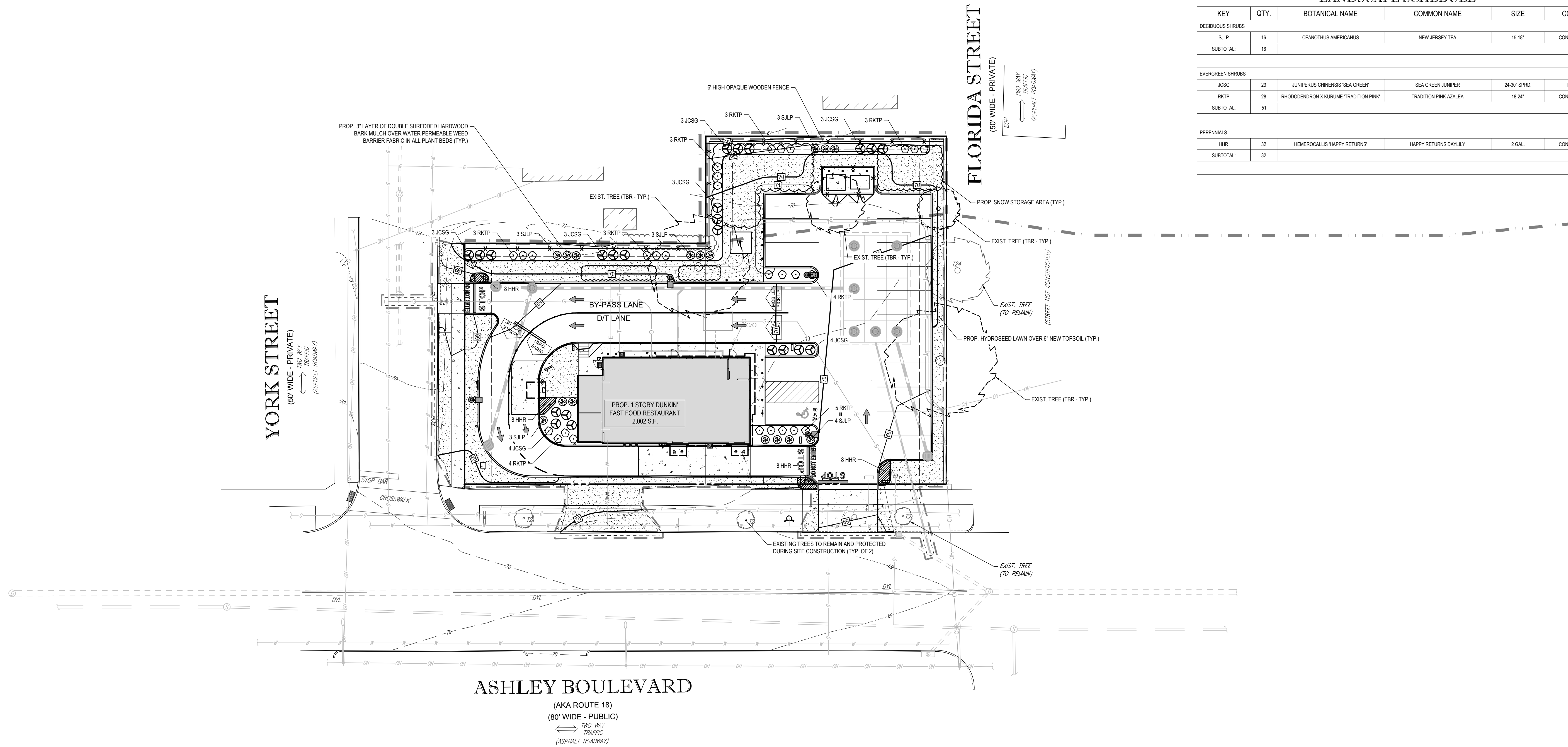
Know what's below.  
Call before you dig.





CITY OF NEW BEDFORD LANDSCAPE REQUIREMENTS			
SECTION OF BY-LAW	DESCRIPTION	REQUIRED	PROPOSED
3330	THE STREET OR PROPERTY LINE(S) SEPARATING RESIDENTIAL USES OR DISTRICTS FROM ADJOINING OR ABUTTING NON-RESIDENTIAL USES SHALL BE SCREENED FROM THE USES SPECIFIED HEREIN BY MEANS OF A (5) FOOT WIDE STRIP OF VEGETATION, PLANTINGS, OR FENCING.  A SCREEN MAY CONSIST OF PLANT MATERIALS, AT LEAST THREE (3) FEET IN HEIGHT AT THE TIME OF PLANTING WHICH WILL PROVIDE A COMPACT DENSE FORM YEAR-ROUND AND WILL REACH A HEIGHT AT MATURITY OF AT LEAST SIX (6) FEET OR A MASONRY WALL OR WOODEN FENCE DESIGNED IN AN ATTRACTIVE MANNER TO VISUALLY OBSCURE. LAWN OR BARK MULCH MAY BE USED AS GROUND COVER IN CONJUNCTION WITH SUCH TREES AND SHRUBS.	YES	YES

LANDSCAPE SCHEDULE					
KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	CONT.
DECIDUOUS SHRUBS					
SILP	16	CEANOTHUS AMERICANUS	NEW JERSEY TEA	15-18"	CONTAINER
SUBTOTAL:	16				
EVERGREEN SHRUBS					
JCSG	23	JUNIPERUS CHINENSIS 'SEA GREEN'	SEA GREEN JUNIPER	24-30" SPRD.	B-B
RKTP	28	RHOCCOENDRON X KURUME 'TRADITION PINK'	TRADITION PINK AZALEA	18-24"	CONTAINER
SUBTOTAL:	51				
PERENNIALS					
HHR	32	HEMEROCALLIS 'HAPPY RETURNS'	HAPPY RETURNS DAYLILY	2 GAL.	CONTAINER
SUBTOTAL:	32				



**OWNER MAINTENANCE RESPONSIBILITIES**

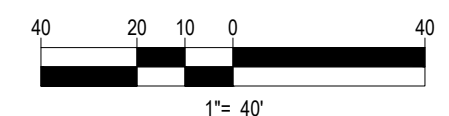
UPON OWNER'S (OR OWNER CONTRACTOR'S) COMPLETION OF LANDSCAPING WORK, THE OWNER IS FULLY RESPONSIBLE FOR ALL FUTURE MAINTENANCE, CARE, UPKEEP, WATERING, AND TRIMMING OF ALL INSTALLED VEGETATION, PLANTS, TREE, BUSHES, SHRUBS, GRASSES, GRASS, ORNAMENTAL PLANTS AND FLOWERS, FLOWERS, GROUND COVER, AND LANDSCAPING, INCLUDING ALL LANDSCAPE ISLANDS AND AREAS ADJACENT OR PART OF THE LANDSCAPED AREAS. THIS RESPONSIBILITY INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING:

- TREES ADJACENT TO WALKWAYS AND AREAS OF PEDESTRIAN TRAFFIC MUST BE MAINTAINED TO ASSURE THAT ANY BRANCHES MUST BE LIMBED UP TO A CLEARANCE HEIGHT OF 7 FT. (FROM ALL PEDESTRIAN SURFACES) OR PRUNED BACK TO AVOID ANY INTERFERENCE WITH THE TYPICAL PATH OF TRAVEL.
- TREES WITHIN VEHICULAR SIGHT LINES, AS ILLUSTRATED ON THE LANDSCAPE PLAN, ARE TO BE TRIMMED TO A CLEARANCE HEIGHT OF 7 FT. (FROM ALL PAVED, TRAVELED SURFACES), OR AS OTHERWISE INDICATED ON THE PLANS.
- VEGETATIVE GROUND COVER, SHRUBS AND ORNAMENTAL PLANTS AND GRASSES MUST BE TRIMMED SO THAT NO PORTION OF THE PLANT EXCEEDS 30 INCHES ABOVE GRADE (OF ALL PAVED, TRAVEL SURFACES) ALONG AND WITHIN THE SIGHT LINES OF PARKING LOTS AND INGRESS/EGRESS WAYS.
- FALLEN PLANT FLOWERS, FRUIT, SEEDS AND DEBRIS DROPPINGS ARE TO BE REMOVED IMMEDIATELY FROM VEHICULAR AND PEDESTRIAN TRAFFIC AREAS TO PREVENT TRIPPING, SLIPPING OR ANY OTHER HAZARDS.

THESE REQUIREMENTS DO NOT AFFECT THE PLANT LIFE GUARANTEES THE LANDSCAPE CONTRACTOR IS REQUIRED TO PROVIDE.

THIS PLAN TO BE UTILIZED FOR LANDSCAPE PURPOSES ONLY

REFER LANDSCAPE NOTES & DETAILS SHEET FOR LANDSCAPE NOTES AND DETAILS



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PRELIMINARY

PROJECT No.: W181193  
DRAWN BY: DJO  
CHECKED BY: S.M.JAB  
DATE: 12/08/2018  
SCALE: AS NOTED  
CAD I.D.: XREF-LAND

PROJECT: **SITE DEVELOPMENT PLANS** FOR **DUNKIN' BRANDS** [eatdrinkthink]

LOCATION OF SITE  
MAP #127D, LOTS #89 & #98  
970 ASHLEY BLVD  
CITY OF NEW BEDFORD  
BRISTOL COUNTY,  
MASSACHUSETTS

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**M. J. MARVA**

LANDSCAPE ARCHITECT

100 STATE STREET, SUITE 1000  
NEW BEDFORD, MA 01909  
CONNECTICUT No. 1359

SHEET TITLE: **LANDSCAPE PLAN**

SHEET NUMBER: **9** OF 15

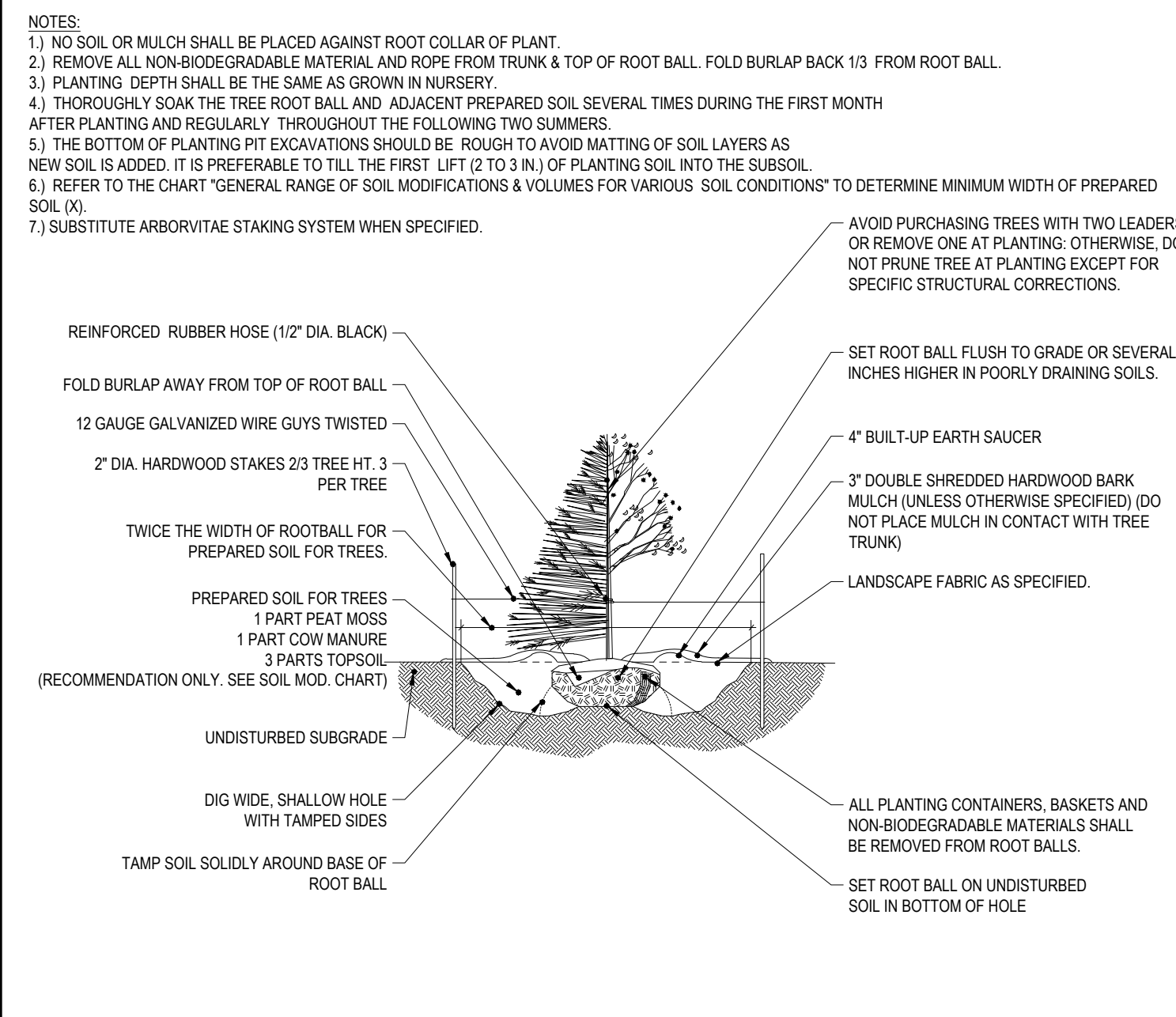
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**LANDSCAPE SPECIFICATIONS**

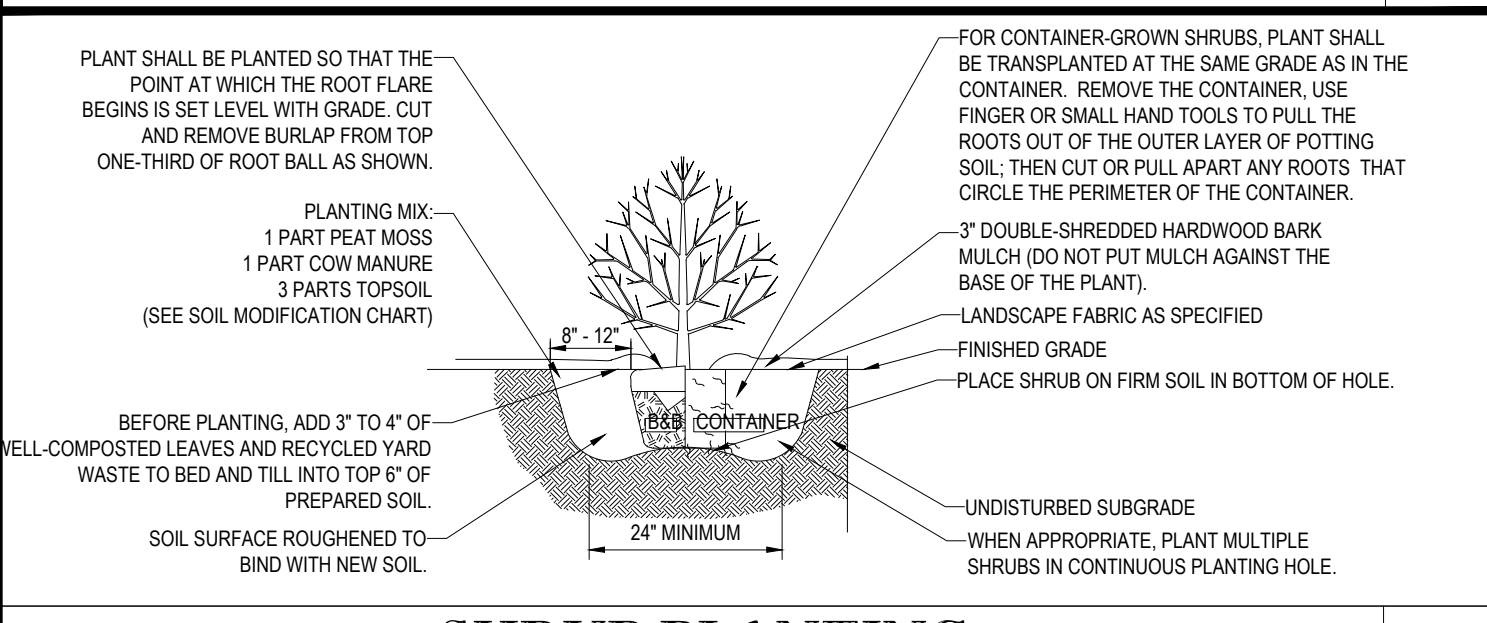
1. **SCOPE OF WORK**
- 1.1. THE LANDSCAPE CONTRACTOR SHALL BE REQUIRED TO PERFORM ALL CLEARING, FINISHED GRADING, SOIL PREPARATION, PERMANENT SEEDING OR SOODING, PLANTING AND MULCHING INCLUDING ALL LABOR, MATERIALS, TOOLS AND EQUIPMENT NECESSARY FOR THE COMPLETION OF THIS PROJECT, UNLESS OTHERWISE CONTRACTED BY THE GENERAL CONTRACTOR.
2. **MATERIALS**
- 2.1. GENERAL - ALL HARDSCAPE MATERIALS SHALL MEET OR EXCEED SPECIFICATIONS AS OUTLINED IN THE STATE DEPARTMENT OF TRANSPORTATIONS SPECIFICATIONS.
- 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 CLODS.
- 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 SOODED 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.
- 2.3.2. 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.
- 2.4. MULCH - ALL PLANTING BEDS SHALL BE MULCHED WITH A 3" THICK LAYER OF DOUBLE SHREDED HARDWOOD BARK MULCH, UNLESS OTHERWISE STATED ON THE LANDSCAPE PLAN AND/OR LANDSCAPE PLAN NOTES/DETAILS.
- 2.5. **FERTILIZER**
- 2.5.1. FERTILIZER SHALL BE DELIVERED TO THE SITE MIXED AS SPECIFIED IN THE ORIGINAL UNOPENED STANDARD BAGS SHOWING WEIGHT, ANALYSIS AND NAME OF MANUFACTURER. FERTILIZER SHALL BE STORED IN A WEATHERPROOF PLACE SO THAT IT CAN BE KEPT DRY PRIOR TO USE.
- 2.5.2. FOR THE PURPOSE OF BIDDING, ASSUME THAT FERTILIZER SHALL BE 10% NITROGEN, 5% PHOSPHORUS AND 4% POTASSIUM BY WEIGHT. A FERTILIZER SHOULD NOT BE SELECTED WITHOUT A SOIL TEST PERFORMED BY A CERTIFIED SOIL LABORATORY.
- 2.6. **PLANT MATERIAL**
- 2.6.1. 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).
- 2.6.2. IN ALL CASES, BOTANICAL NAMES SHALL TAKE PRECEDENCE OVER COMMON NAMES FOR ANY AND ALL PLANT MATERIAL.
- 2.6.3. PLANTS SHALL BE LEGIBLY TAGGED WITH THE PROPER NAME AND TAGS. ARE TO REMAIN ON AT LEAST ONE PLANT OF EACH SPECIES FOR VERIFICATION PURPOSES DURING THE FINAL INSPECTION.
- 2.6.4. TREES WITH ABRASION OF THE BARK, SUN SCALDS, DISFIGURATION OR FRESH CUTS OF LIMBS OVER 1", WHICH HAVE NOT BEEN COMPLETELY CALLEDUS, SHALL BE REJECTED. PLANTS SHALL NOT BE BOUND WITH WIRE OR ROPE AT ANY TIME SO AS TO DAMAGE THE BARK OR BREAK BRANCHES.
- 2.6.5. ALL PLANTS SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY AND SHALL HAVE A NORMAL HABIT OF GROWTH, WELL DEVELOPED BRANCHES, DENSELY FOLIATED, VIGOROUS ROOT SYSTEMS AND BE FREE OF DISEASE, INSECTS, PESTS, EGGS OR LARVAE.
- 2.6.6. 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.
- 2.6.7. 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.

3. **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 STORED, STOCKPILED OR DISPOSED OF.
- 3.2. WASTE MATERIALS AND DEBRIS SHALL BE COMPLETELY DISPOSED OF AT THE CONTRACTORS EXPENSE. DEBRIS SHALL NOT BE BURIED, INCLUDING ORGANIC MATERIALS, BUT SHALL BE REMOVED COMPLETELY FROM THE SITE.
4. **SITE PREPARATIONS**
- 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.
- 4.2. 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 BEGINNING OF WORK.
5. **TREE PROTECTION**
- 5.1. 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.
- 5.2. A FORTY-EIGHT INCH (48") HIGH WOODEN SNOW FENCE OR ORANGE COLORED HIGH-DENSITY "YISH-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.
- 5.3. 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 HAS BEEN COMPLETED.
- 5.4. AT NO TIME SHALL MACHINERY, DEBRIS, FALLEN TREES OR OTHER MATERIALS BE PLACED, STOCKPILED OR LEFT STANDING IN THE TREE PROTECTION ZONE.
6. **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.
- 6.2. 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.
- 6.3. 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.
- 6.3.1. TO INCREASE A SANDY SOILS ABILITY TO RETAIN WATER AND NUTRIENTS, THOROUGHLY TILL ORGANIC MATTER INTO THE TOP 6"-12". USE COMPOSTED BARK, COMPOSTED LEAF MULCH OR PEAT MOSS. ALL PRODUCTS SHOULD BE COMPOSTED TO A DARK COLOR AND BE FREE OF PIECES WITH IDENTIFIABLE LEAF OR WOOD STRUCTURE. AVOID MATERIAL WITH A PH HIGHER THAN 7.5.
- 6.3.2. TO INCREASE DRAINAGE, MODIFY HEAVY CLAY OR SILT (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) AND/OR AGRICULTURAL GYPSUM. COARSE SAND MAY BE USED IF ENOUGH IS ADDED TO BRING THE SAND CONTENT TO MORE THAN 60% OF THE TOTAL MIX. SUBSURFACE DRAINAGE LINES MAY NEED TO BE ADDED TO INCREASE DRAINAGE.
- 6.3.3. MODIFY EXTREMELY SANDY SOILS (MORE THAN 85%) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDED CLAY LOAM UP TO 30% OF THE TOTAL MIX.
7. **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").
- 7.3. 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.
8. **TOPSOILING**
- 8.1. 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.
- 8.2. 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.
- 8.3. 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.
- 8.4. 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 (QUARTERS BASED ON A 1,000 SQUARE FOOT AREA - FOR BID PURPOSES ONLY) [SEE SPECIFICATION 6.A.J]:
- 8.4.1. 20 POUNDS GRO-POWER OR APPROVED SOIL CONDITIONER/FERTILIZER
- 8.4.2. 20 POUNDS NITRO-FORM (COURSE) 38-0-0 BLUE CHIP OR APPROVED NITROGEN FERTILIZER



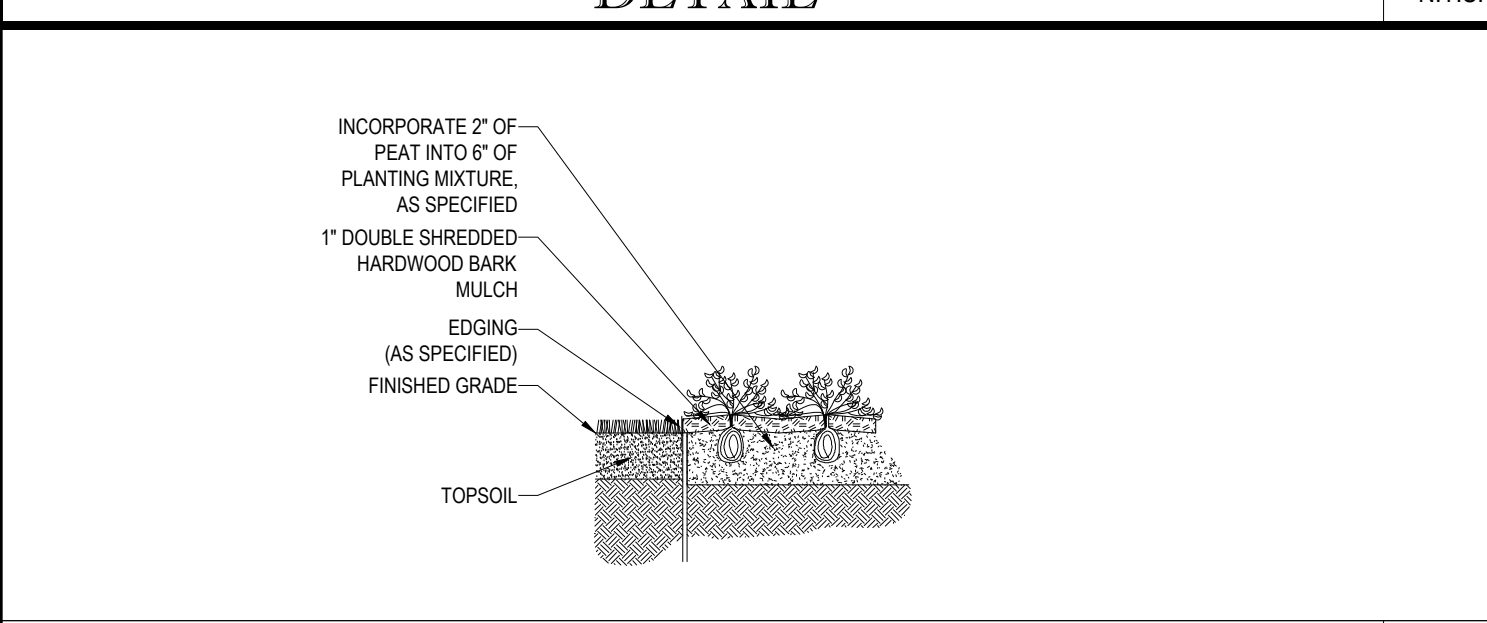
**TREE PLANTING DETAIL**

N.T.S.



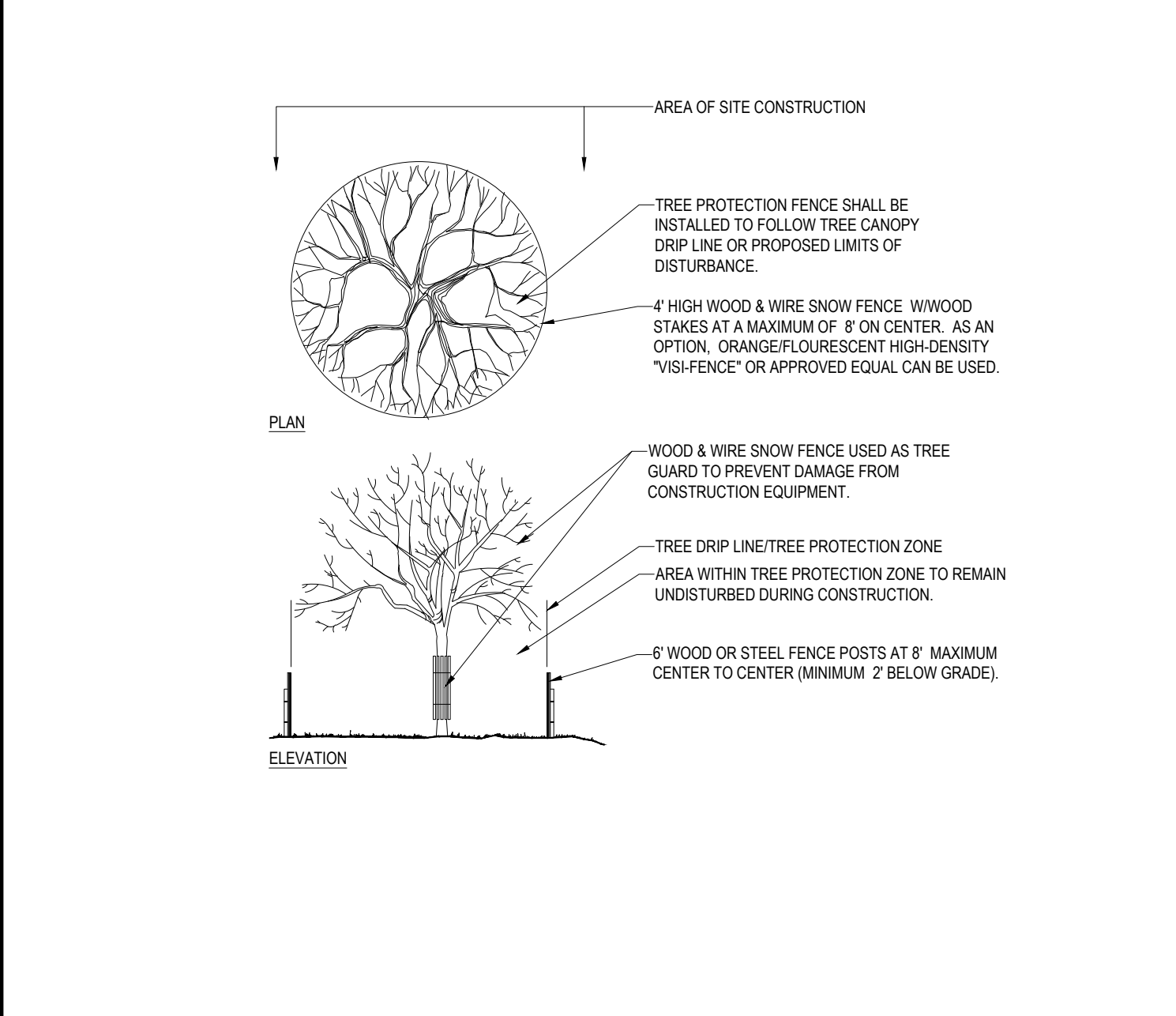
**SHRUB PLANTING DETAIL**

N.T.S.



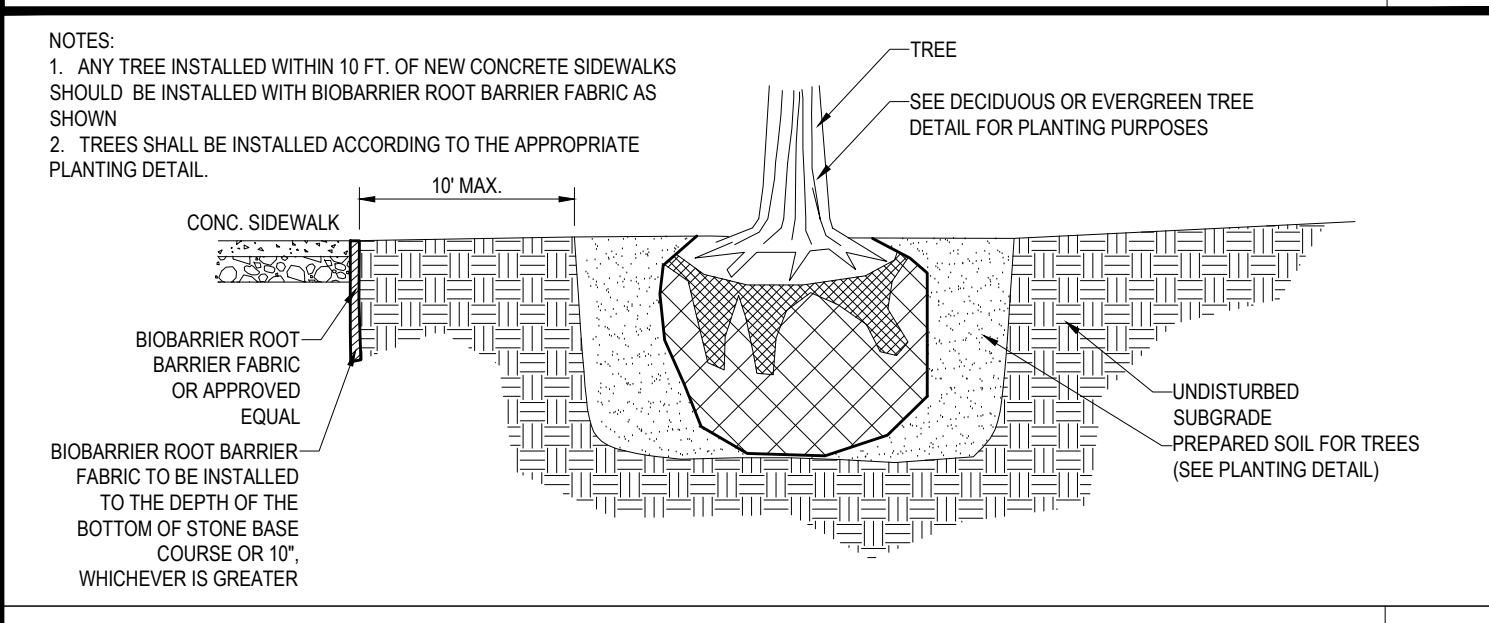
**GROUND COVER PLANTING**

N.T.S.



**TREE PROTECTION DURING SITE CONSTRUCTION**

N.T.S.



**BIOBARRIER ROOT BARRIER DETAIL**

N.T.S.

1. PRIOR TO SEEDING, AREA IS TO BE TOPSOILED, FINE GRADED, AND RAKED OF ALL DEBRIS LARGER THAN 2" DIAMETER.
2. PRIOR TO SEEDING, CONSULT MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS.
3. SEEDING RATES:
- |                       |                   |
|-----------------------|-------------------|
| PERENNIAL RYEGRASS    | 1/2 LB/1000 SQ FT |
| NECESSARY BLUEGRASS   | 1 LB/1000 SQ FT   |
| RED FESCUE            | 1/2 LB/1000 SQ FT |
| SPREADING FESCUE      | 1/2 LB/1000 SQ FT |
| FERTILIZER (16-32-16) | 2 LB/1000 SQ FT   |
| LIQUID LIME           | 1 GAL/500 GAL     |
| TANK TACKIFIER        | 35 LB/800 GAL     |
| TANK FIBER MULCH      | 30 LB/1000 SQ FT  |
4. GERMINATION RATES WILL VARY AS TO TIME OF YEAR FOR SOWING. CONTRACTOR TO IRRIGATE SEEDED AREA UNTIL AN ACCEPTABLE STAND OF COVER IS ESTABLISHED BY OWNER.

**HYDROSEED SPECIFICATIONS**

N.T.S.

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100 WASHINGTON STREET, SUITE 200, BOSTON, MA 02108  
 PH: (617) 552-8800 FAX: (617) 552-8801

**REVISIONS**

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**PRELIMINARY**

PROJECT No.: W181193  
 DRAWN BY: DJO  
 CHECKED BY: S.M.JAB  
 DATE: 12/08/2018  
 SCALE: AS NOTED  
 CAD I.D.: XREF-LAND

**SITE DEVELOPMENT PLANS FOR DYNKIN BRANDS**

LOCATION OF SITE  
 MAP #127D, LOTS #89 & #98  
 970 ASHLEY BLVD  
 CITY OF NEW BEDFORD  
 BRISTOL COUNTY,  
 MASSACHUSETTS

**BOHLER ENGINEERING**

352 TURNPIKE ROAD  
 SOUTHBOROUGH, MA 01772  
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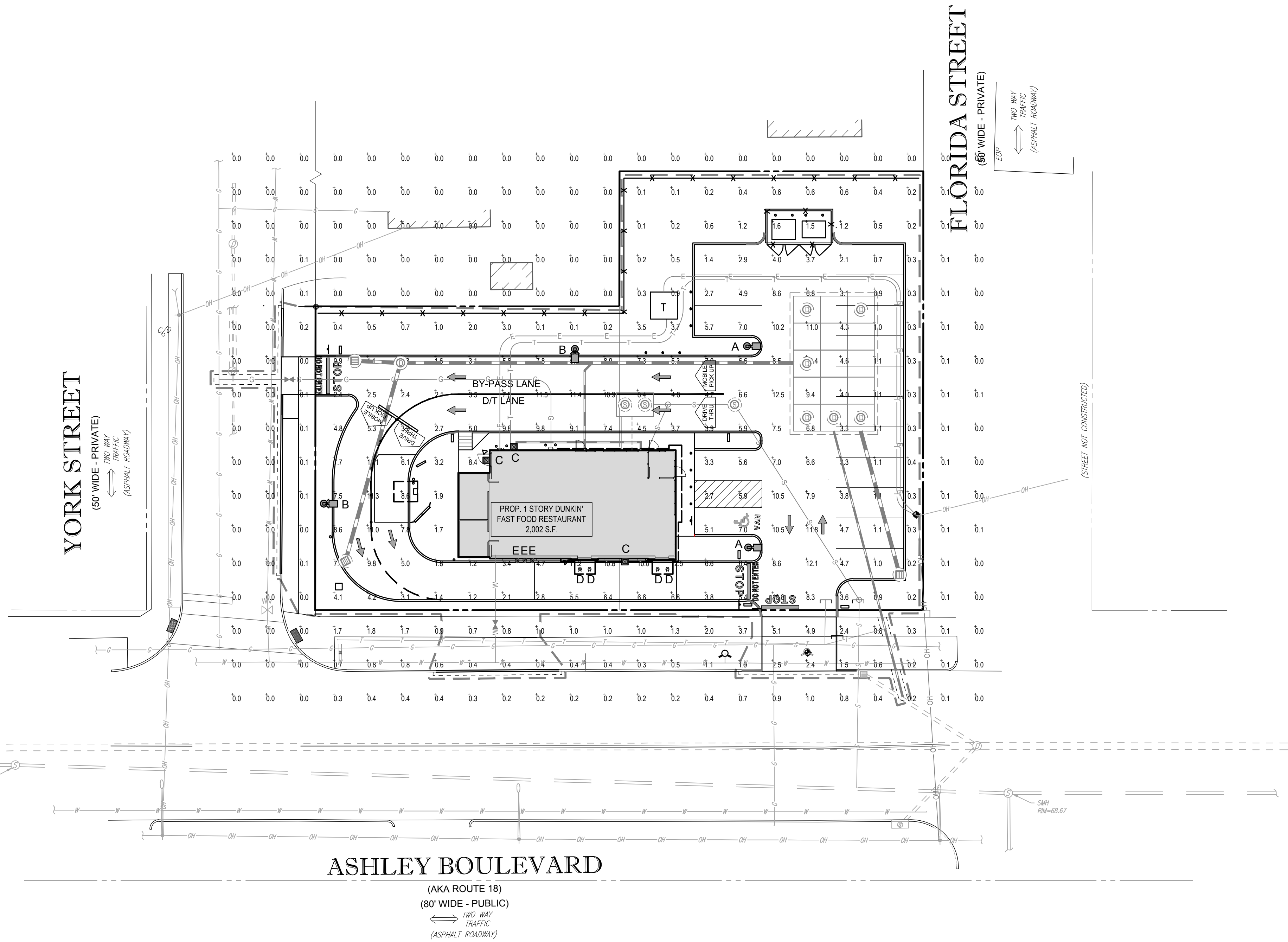
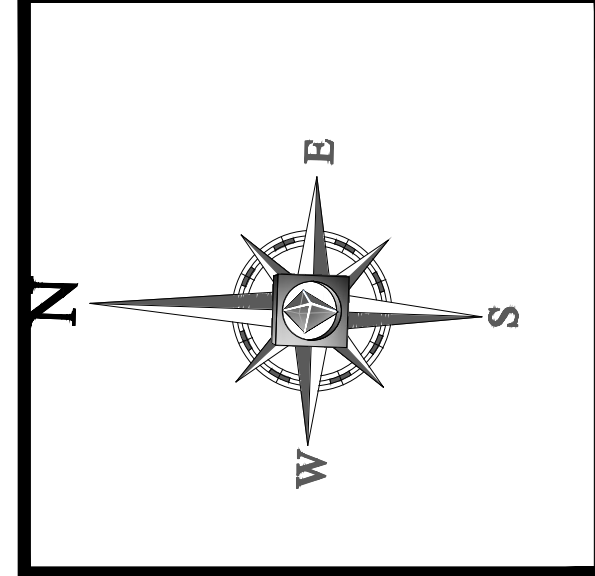
**M.I. ERVA**  
 LANDSCAPE ARCHITECT

100 WASHINGTON STREET, SUITE 200, BOSTON, MA 02108  
 PH: (617) 552-8800 FAX: (617) 552-8801

SHEET TITLE:  
**LANDSCAPE NOTES & DETAILS SHEET**

SHEET NUMBER:  
**10**  
 OF 15

REV 0 - 12/08/2018



**LIGHTING NOTES:**

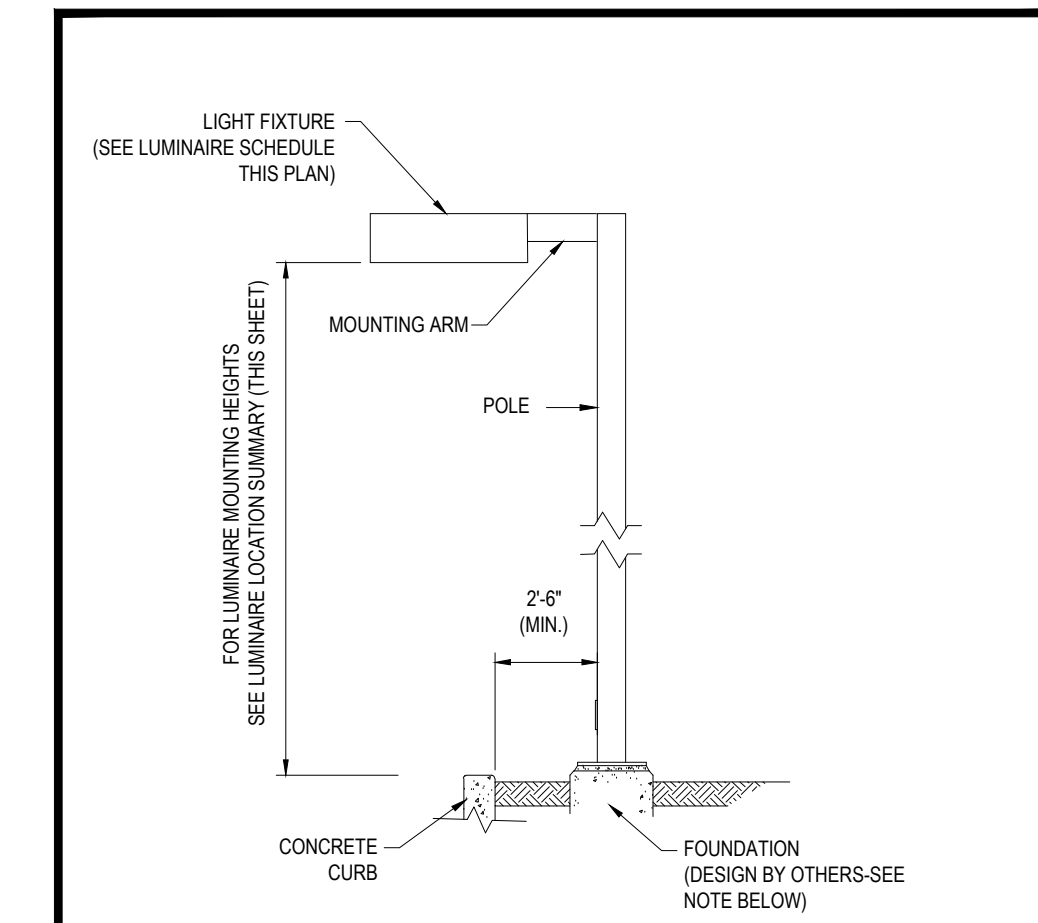
- THIS LIGHTING PLAN DEPICTS PROPOSED SUSTAINED ILLUMINATION LEVELS CALCULATED USING DATA PROVIDED BY THE NOTED MANUFACTURER(S). ACTUAL SUSTAINED SITE ILLUMINATION LEVELS AND PERFORMANCE OF LUMINAIRES MAY VARY DUE TO VARIATIONS IN WEATHER, ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS, THE SERVICE LIFE OF EQUIPMENT AND LUMINAIRES AND OTHER RELATED VARIABLE FIELD CONDITIONS.
- 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.
- 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.
- 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.
- 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 STATUTES.
- 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 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.
- 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	5.72	12.5	0.7	8.17	17.86

**LUMINAIRE SCHEDULE**

SYMBOL	QTY	ARRANGEMENT	LUMENS	LLF	DESCRIPTION
A	2	SINGLE	44000	0.90	LED AREA LIGHT MOUNTED @ 20' ARE-EHO-3M-12-E-UL-700-40K
B	2	SINGLE W/ SHIELD	44000	0.90	LED AREA LIGHT WITH SHIELD MOUNTED @ 20' ARE-EHO-3M-12-E-UL-700-40K
C	3	WALL PACK	N/A	0.90	WALL PACK GRAY MANUFACTURED BY WAC MOUNTED @ 12' WP-LED227-30-AWK-GRAY
D	4	CANOPY	N/A	0.90	LED DOWN LIGHT MANUFACTURED BY CREE MOUNTED @ 10' LRE-18L-35-DR W/ R6-12WGU24 HOUSING & LED-A LAMP
E	3	DECORATIVE	N/A	0.90	EXTERIOR GOOSENECK FIXTURE MANUFACTURED BY HI-LITE MFG. INC. MOUNTED @ 12' GU-40-11818-1-118

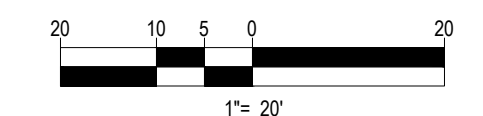


**AREA LIGHT DETAIL** N.T.S.

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 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**



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**PRELIMINARY**

PROJECT No.: W181193  
DRAWN BY: DJO  
CHECKED BY: S.M.JAB  
DATE: 12/08/2018  
SCALE: AS NOTED  
CAD I.D.: W181193SS0

**SITE DEVELOPMENT PLANS FOR DUNKIN' BRANDS**

LOCATION OF SITE  
MAP #127D, LOTS #89 & #98  
970 ASHLEY BLVD  
CITY OF NEW BEDFORD  
BRISTOL COUNTY,  
MASSACHUSETTS

**BOHLER ENGINEERING**

352 TURNPIKE ROAD  
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**J. A. Beardino**

JAMES A. BEARDINO  
REGISTERED PROFESSIONAL ENGINEER  
MASSACHUSETTS  
LICENSE # 10000

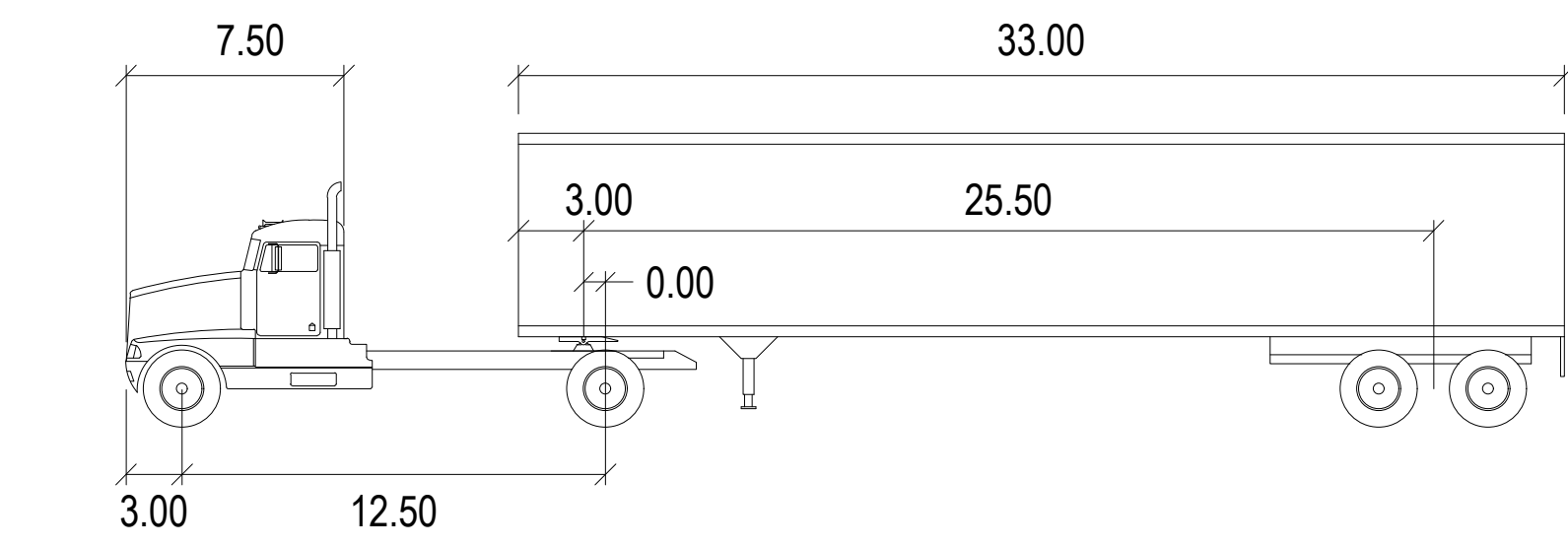
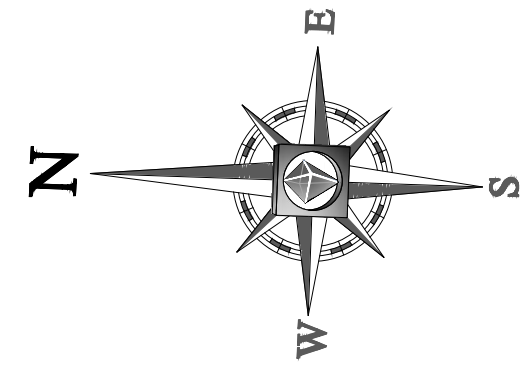
SHEET TITLE:  
**LIGHTING PLAN**

SHEET NUMBER:  
**11**  
OF 15

REV 0 - 12/06/2018

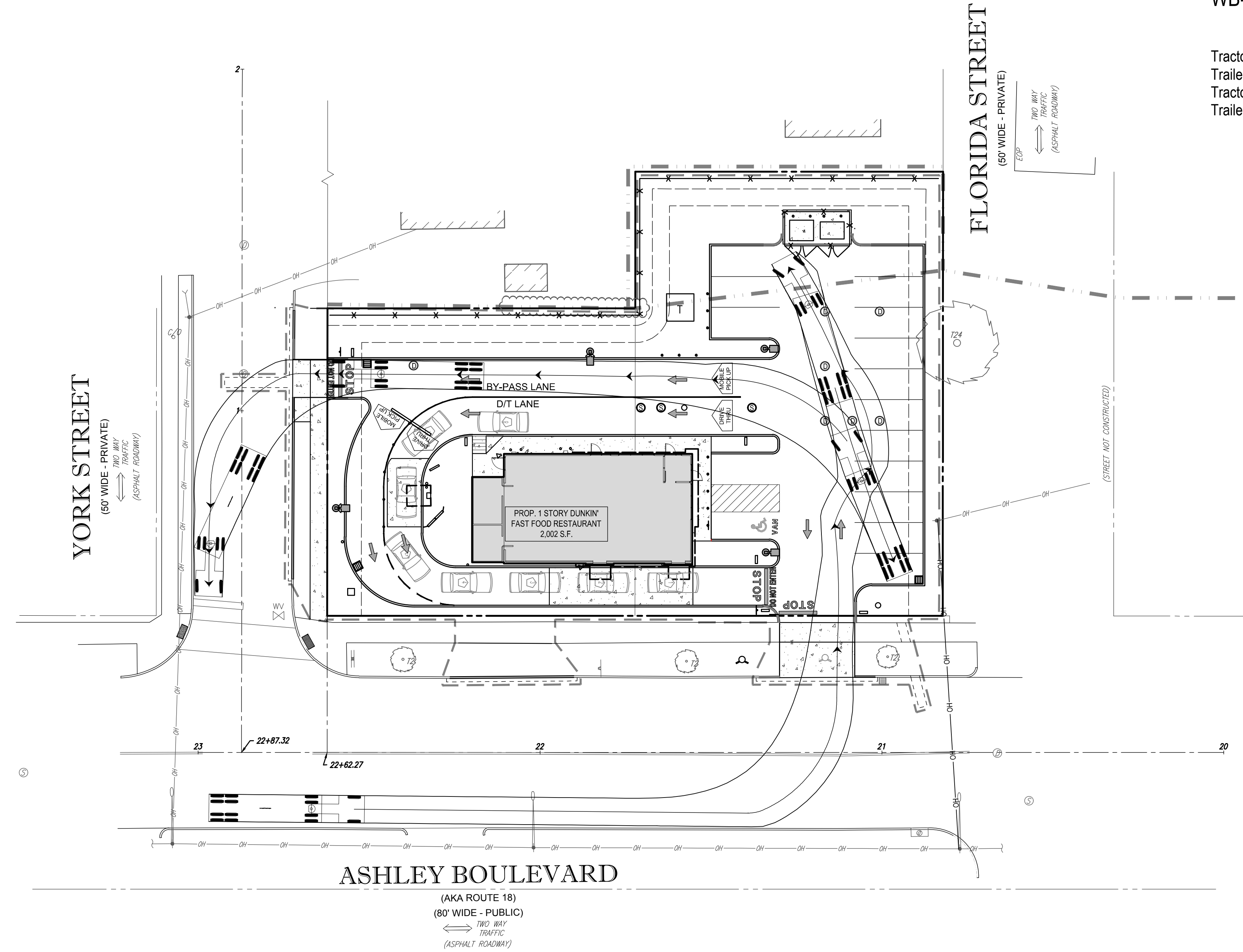
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**811**  
Know what's below.  
Call before you dig.



WB-40

Tractor Width	: 8.00	Lock to Lock Time	: 6.0
Trailer Width	: 8.00	Steering Angle	: 20.3
Tractor Track	: 8.00	Articulating Angle	: 70.0
Trailer Track	: 8.00		



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PRELIMINARY

PROJECT No.: W181193  
 DRAWN BY: DJO  
 CHECKED BY: S.M.JAB  
 DATE: 12/06/2018  
 SCALE: AS NOTED  
 CAD I.D.: W181193SS0

PROJECT: **SITE DEVELOPMENT PLANS** FOR **DUNKIN' BRANDS**

LOCATION OF SITE  
 MAP #127D, LOTS #89 & #98  
 970 ASHLEY BLVD  
 CITY OF NEW BEDFORD  
 BRISTOL COUNTY,  
 MASSACHUSETTS

**BOHLER ENGINEERING**

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**J. A. Beardino**

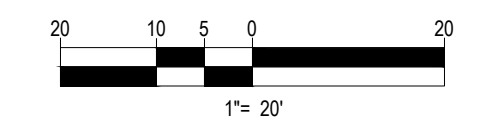
JAMES A. BEARDINO  
 PROFESSIONAL ENGINEER  
 LICENSE # 11111  
 REGISTERED PROFESSIONAL ENGINEER

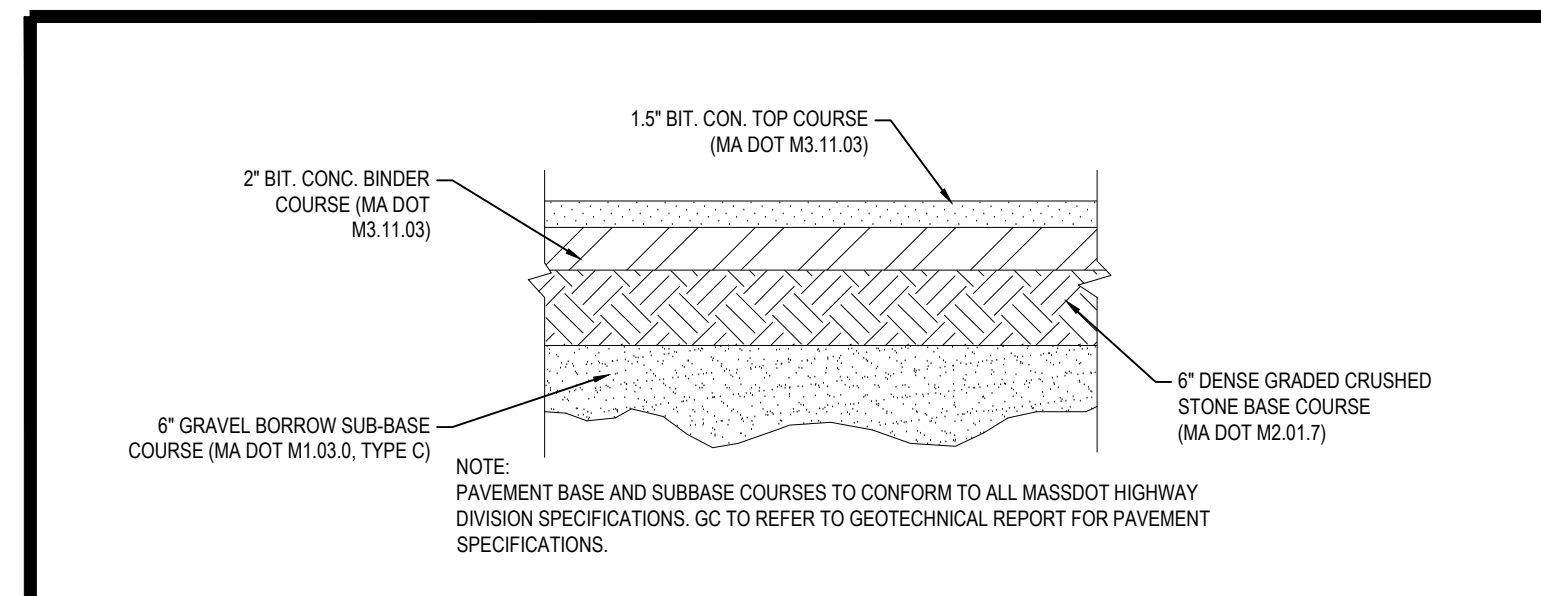
SHEET TITLE: **TRUCK TURN PLAN**

SHEET NUMBER: **12**  
 OF 15

REV 0 - 12/06/2018

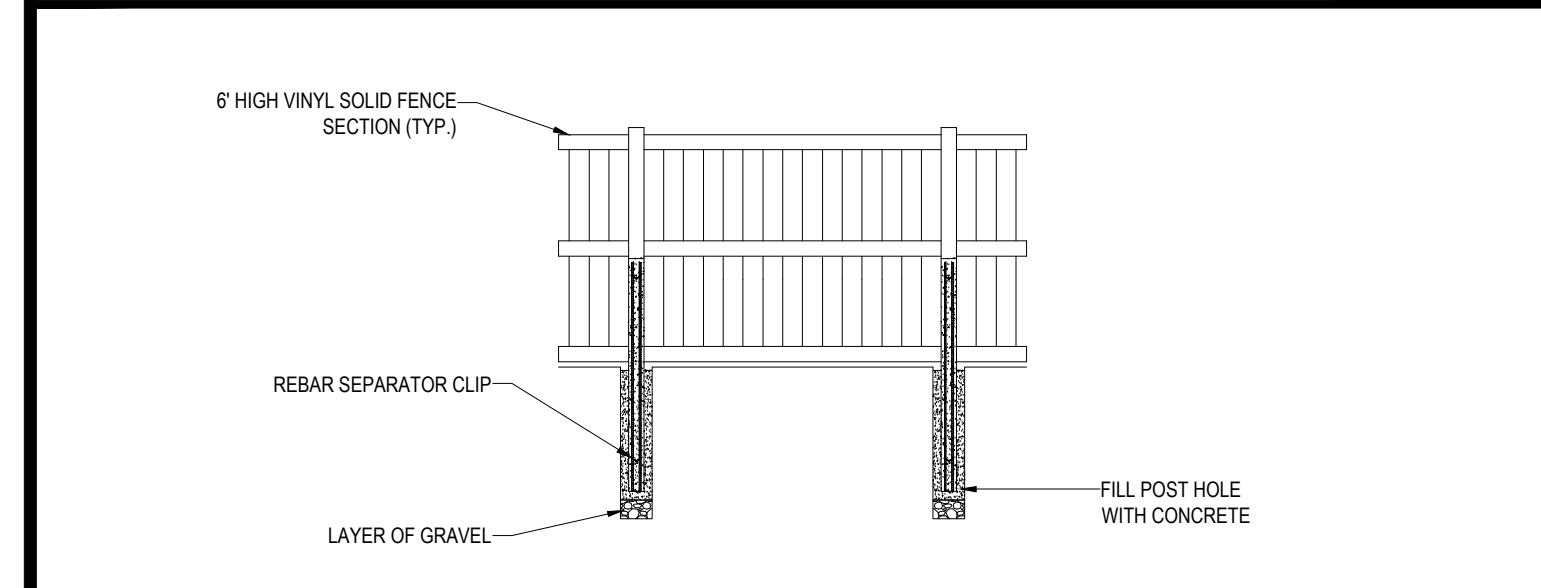
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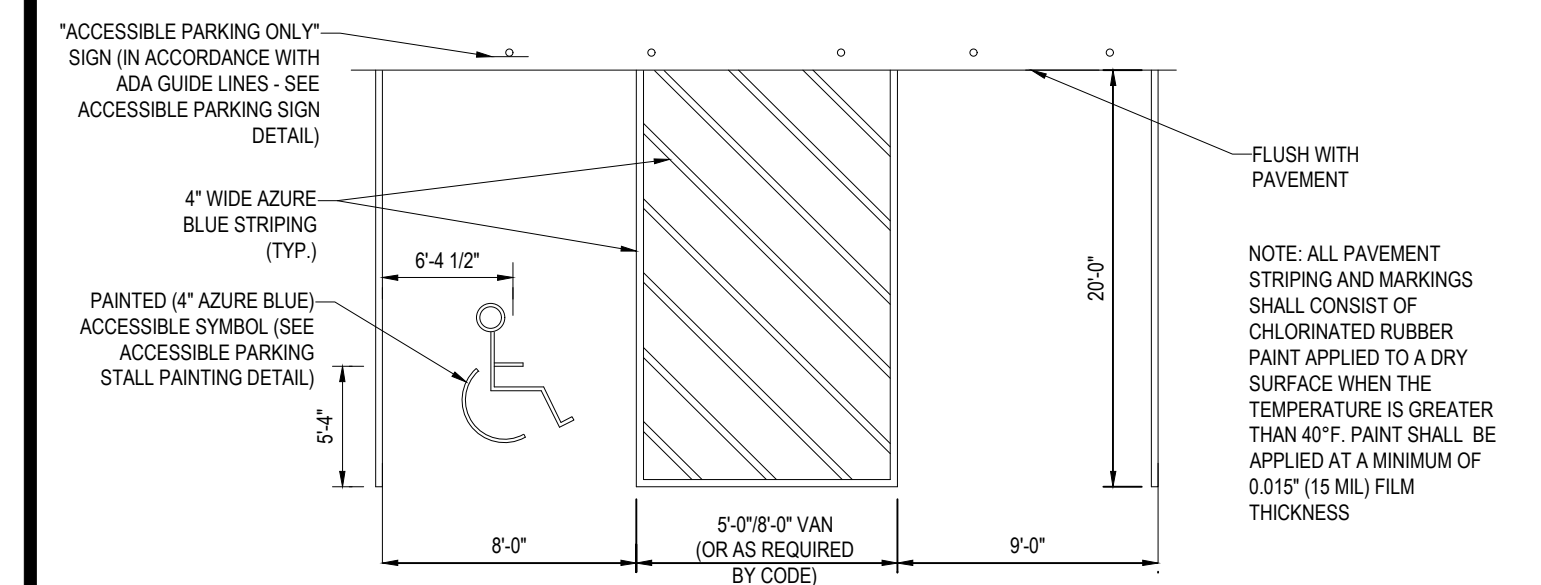
TYPICAL PAVEMENT SECTION

N.T.S.



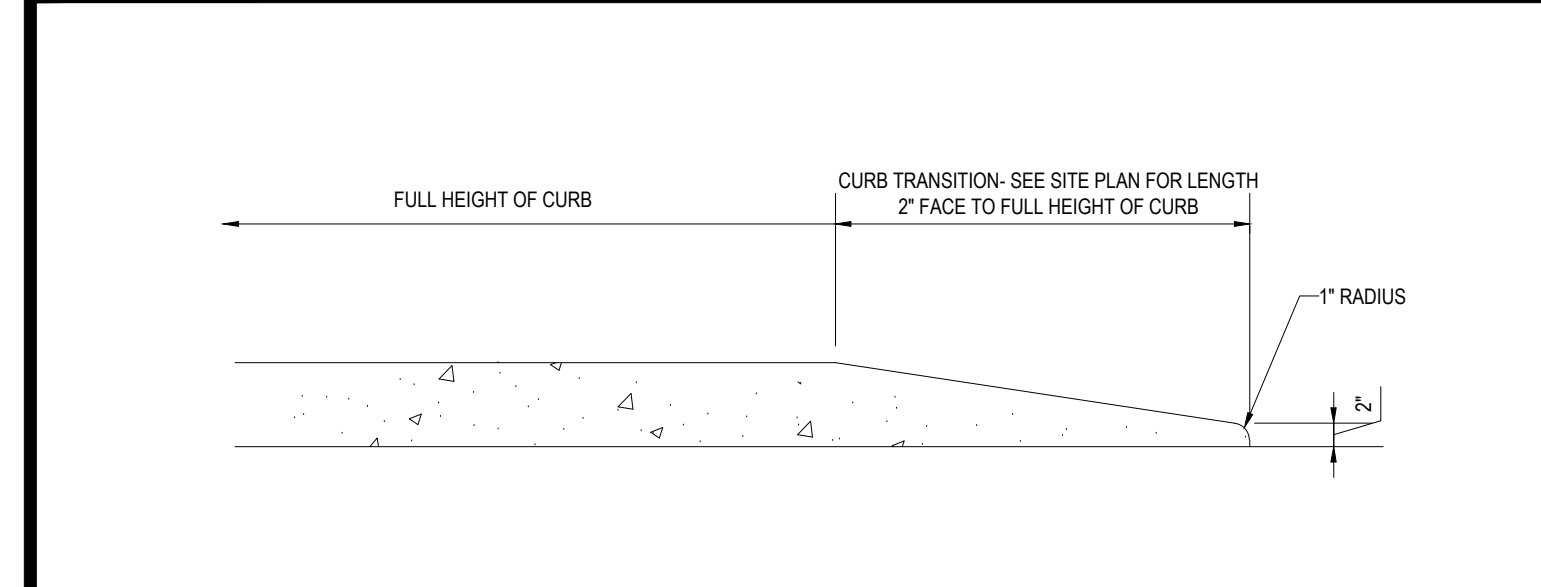
6' HIGH VINYL FENCE

N.T.S.



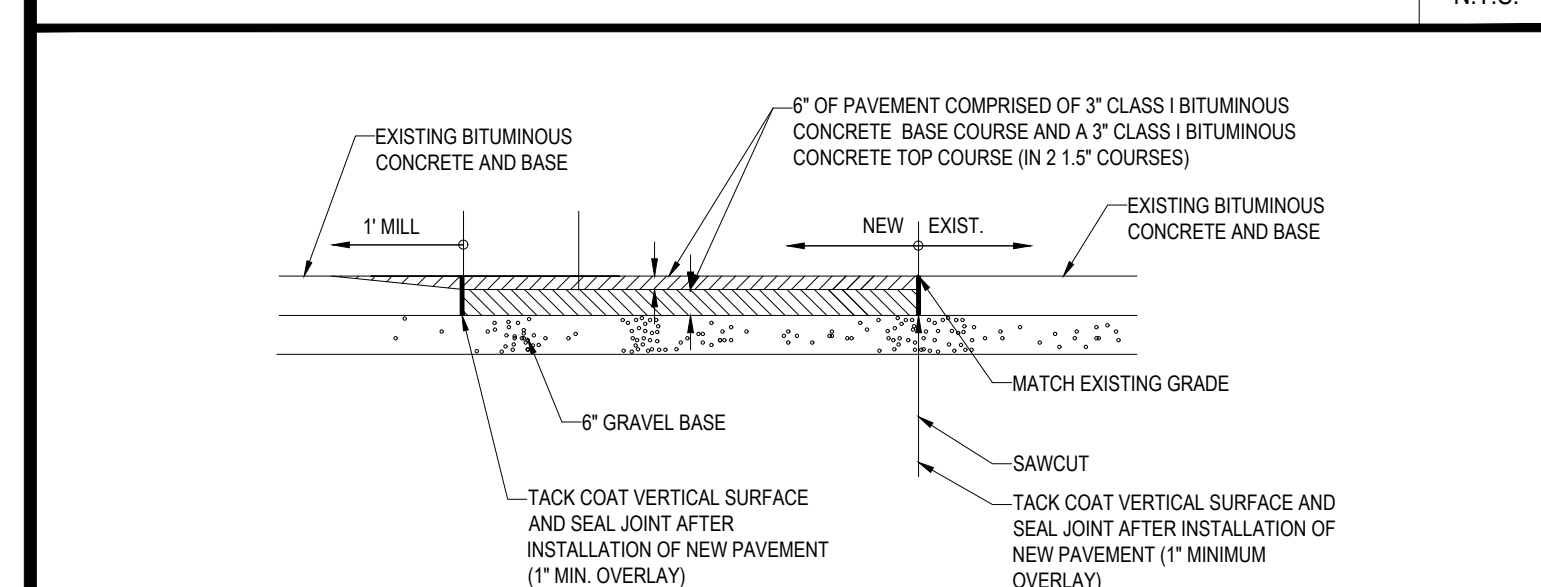
ACCESSIBLE STALL MARKINGS & PARKING LOT STRIPING DETAIL

N.T.S.



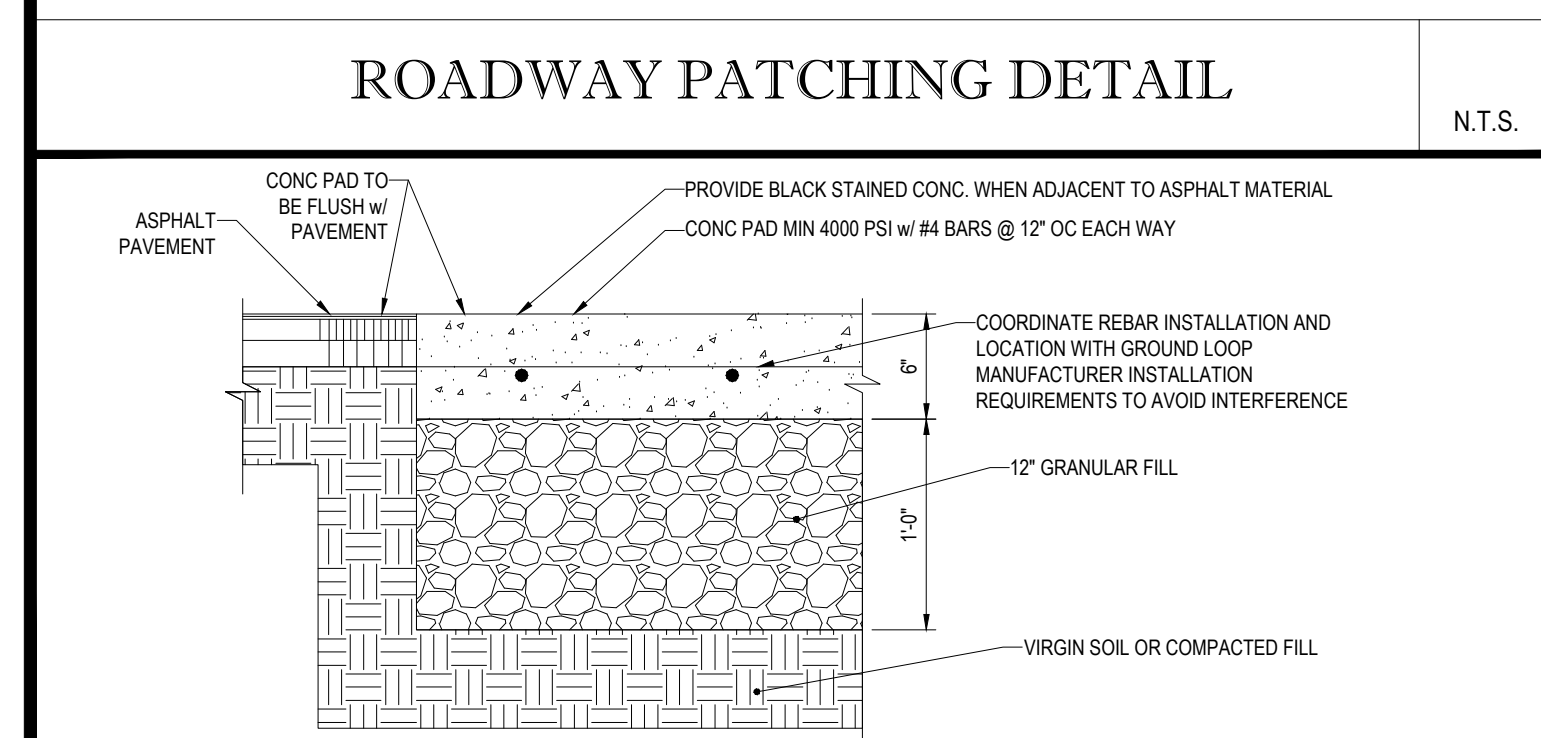
TRANSITION CURB DETAIL

N.T.S.



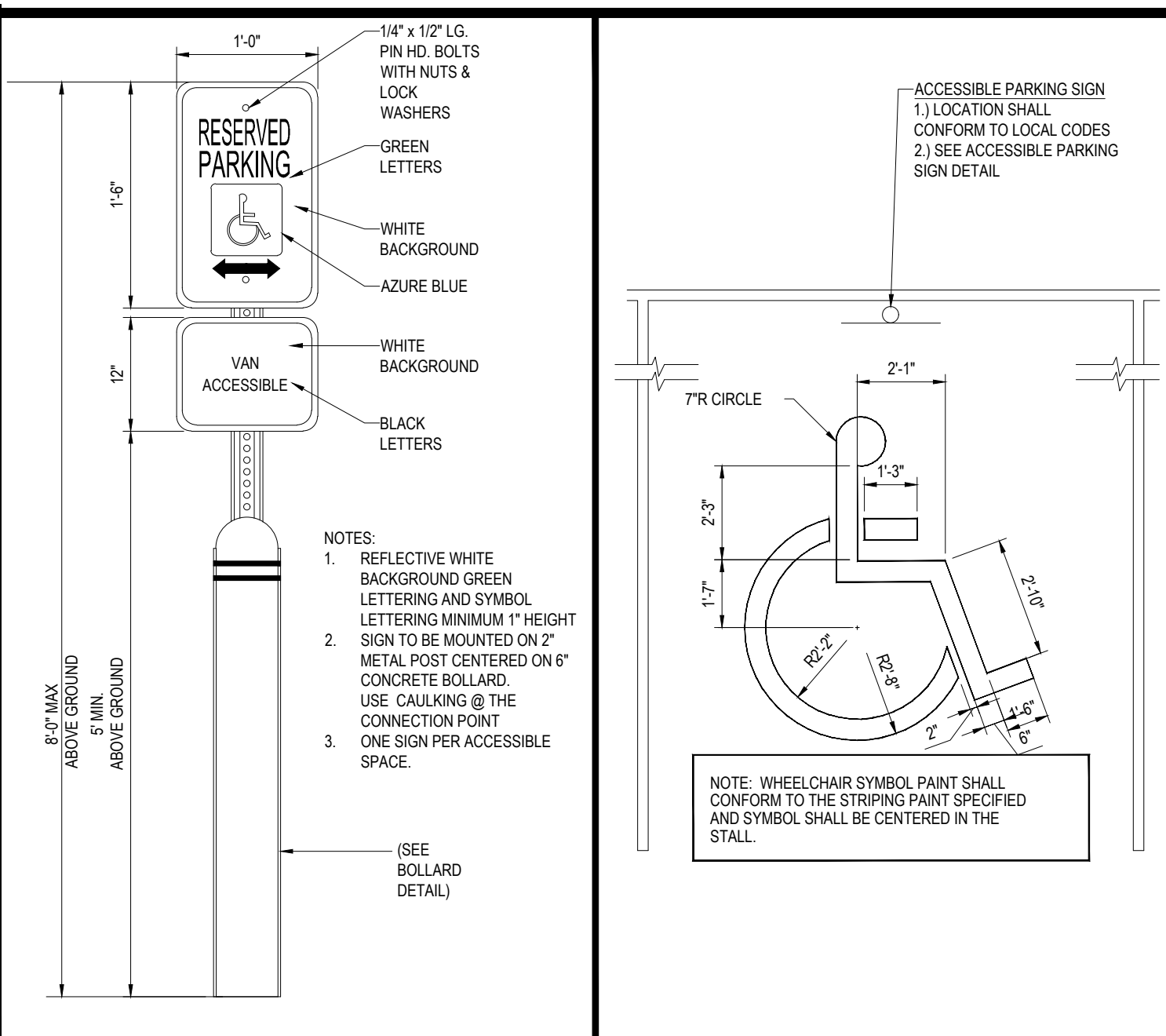
ROADWAY PATCHING DETAIL

N.T.S.



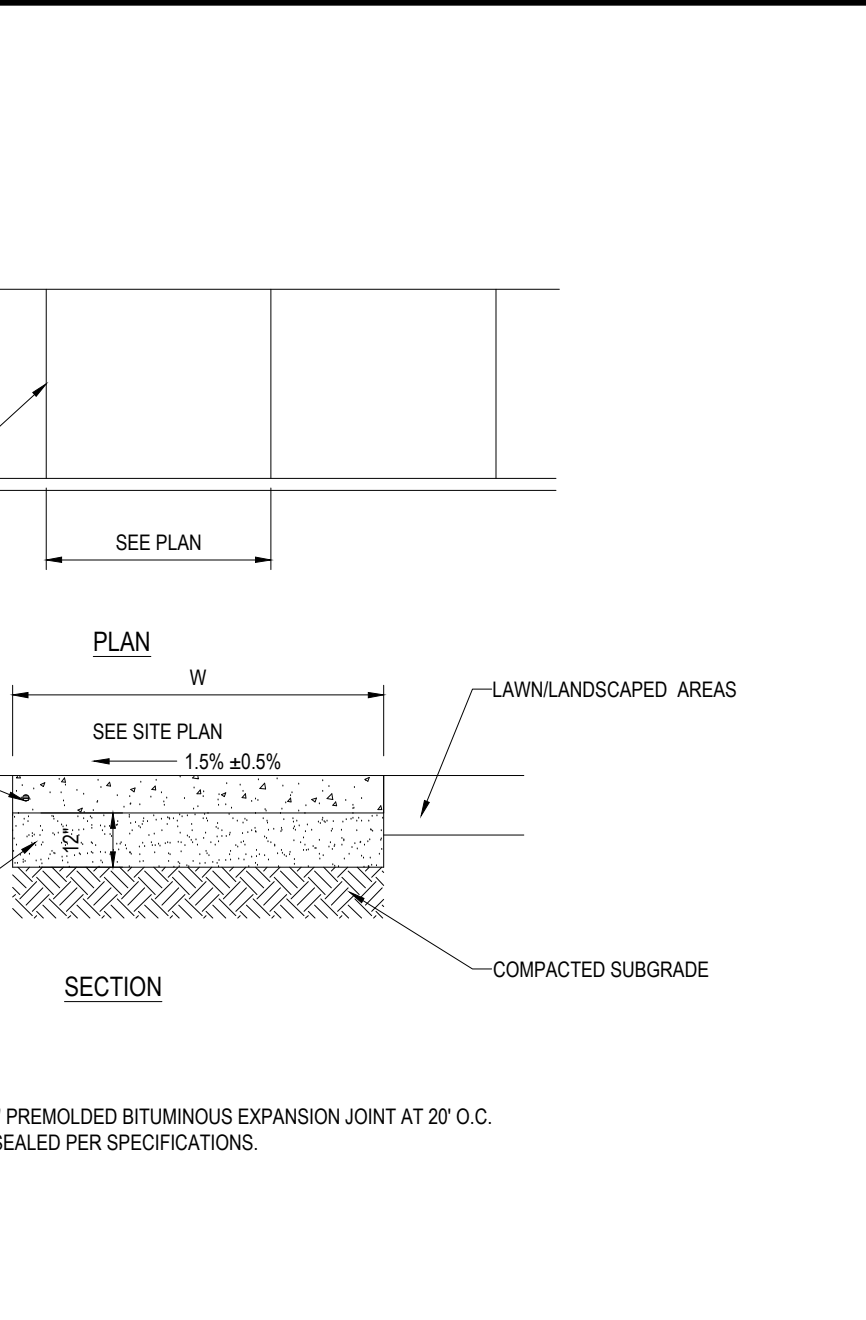
CONCRETE PAD

N.T.S.



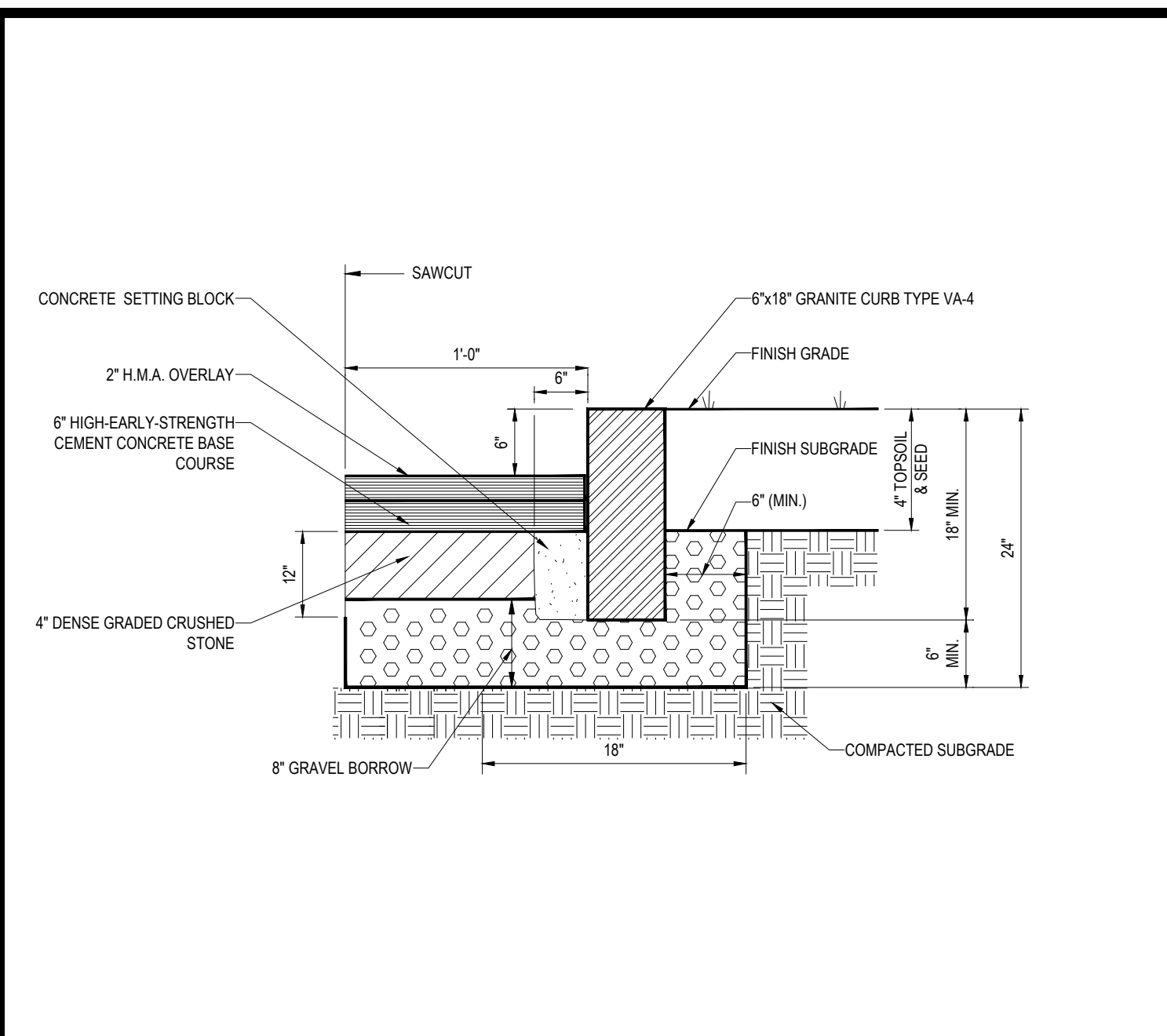
ACCESSIBLE PARK SIGN W/ BOLLARD

ACCESSIBLE STALL PAINTING DETAIL



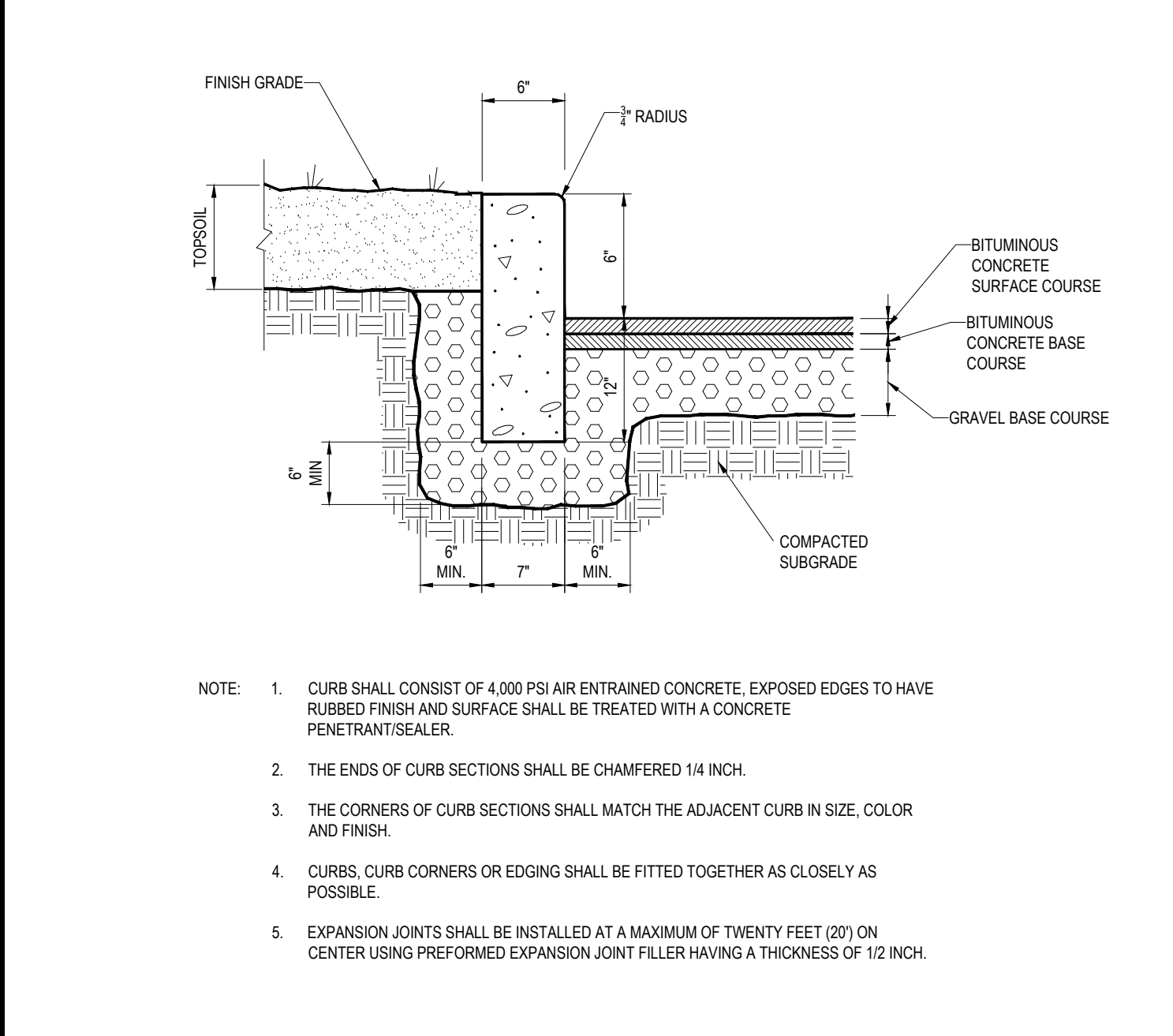
SIDEWALK DETAIL WITHIN ROW

N.T.S.



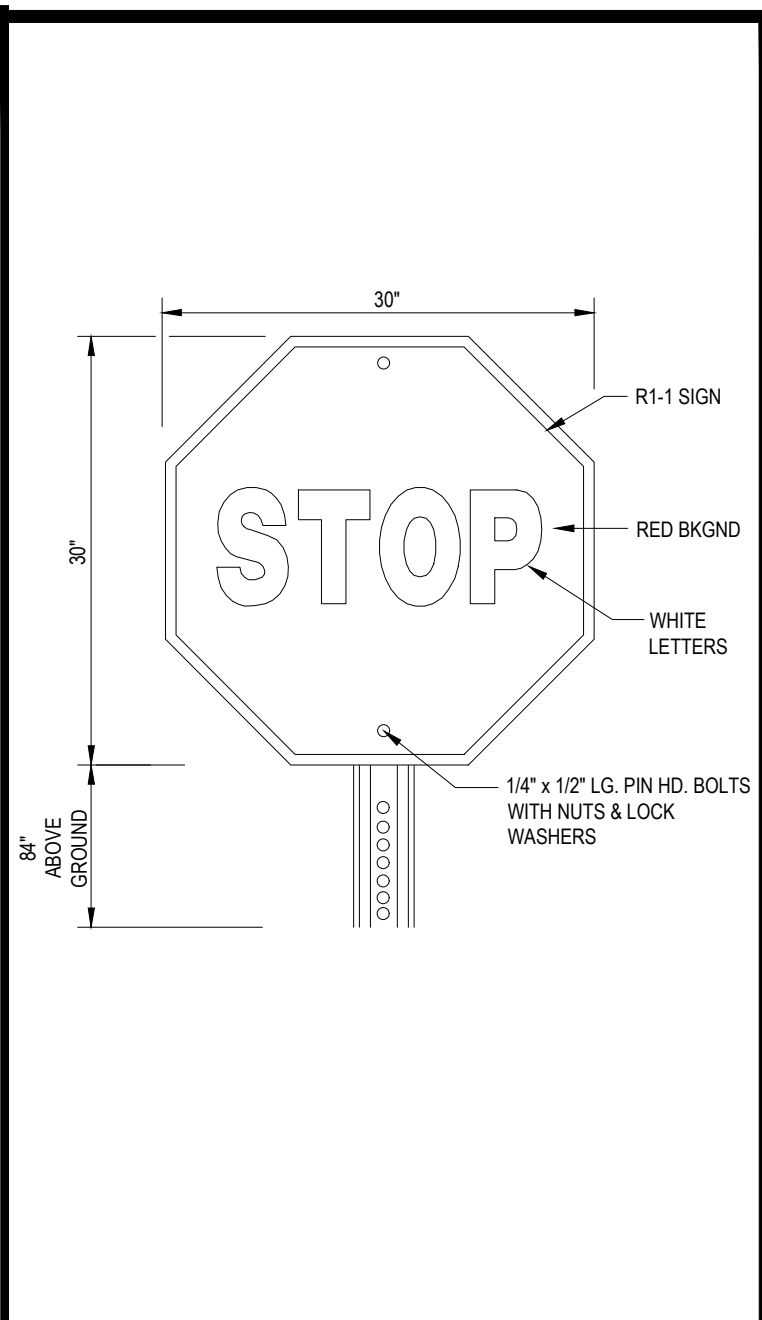
VERTICAL GRANITE CURB DETAIL (FOR USE IN R.O.W.)

N.T.S.



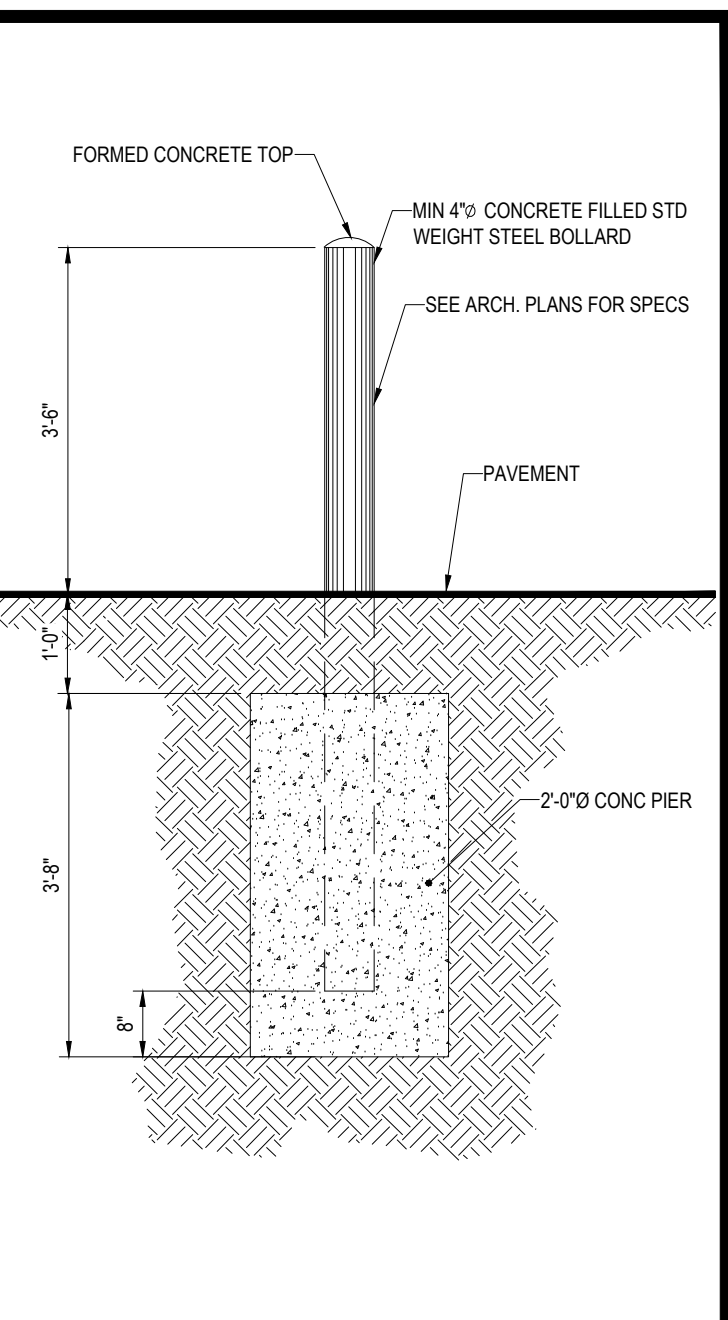
PRECAST CONCRETE CURB DETAIL

N.T.S.



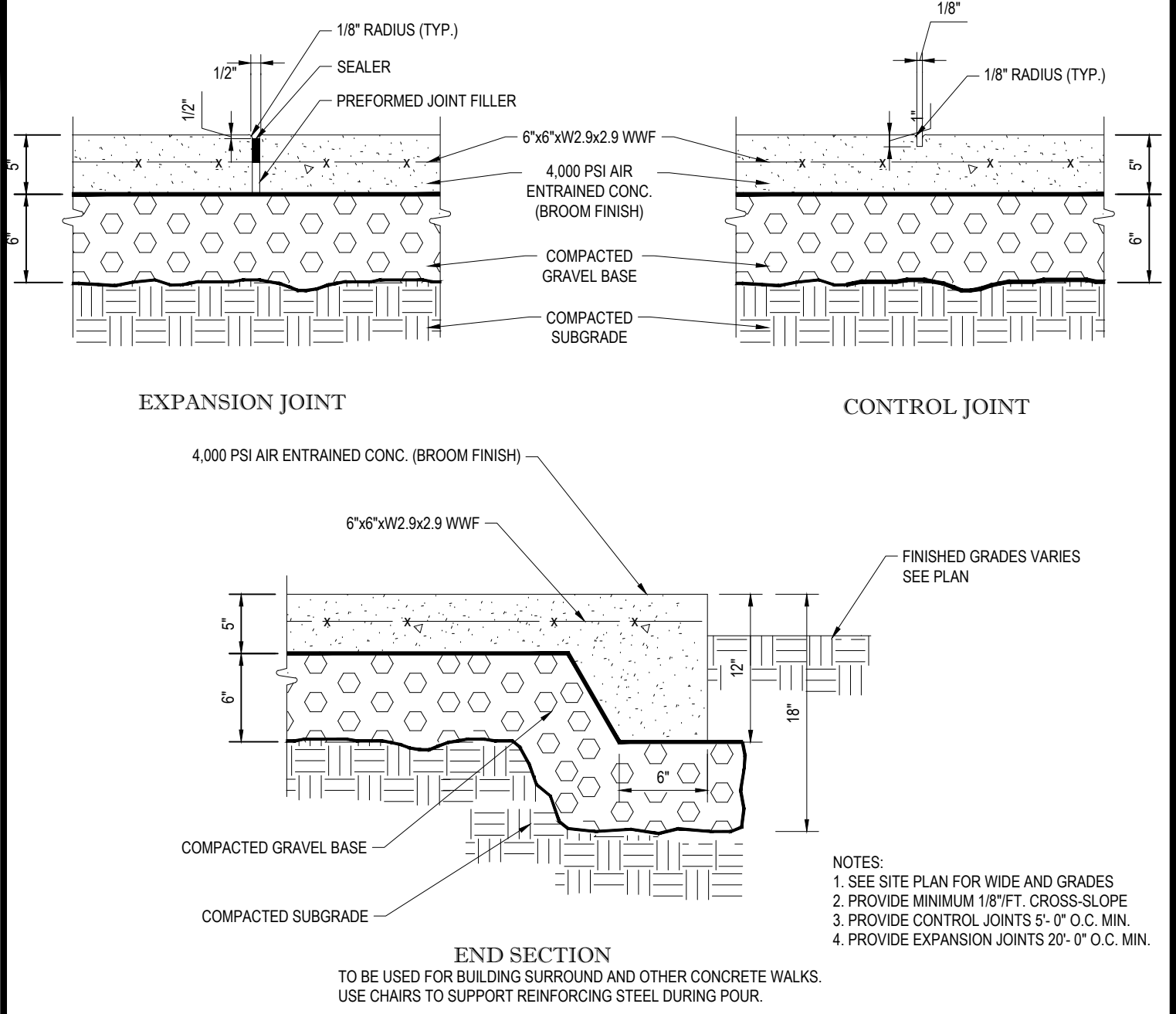
'STOP' SIGN

N.T.S.



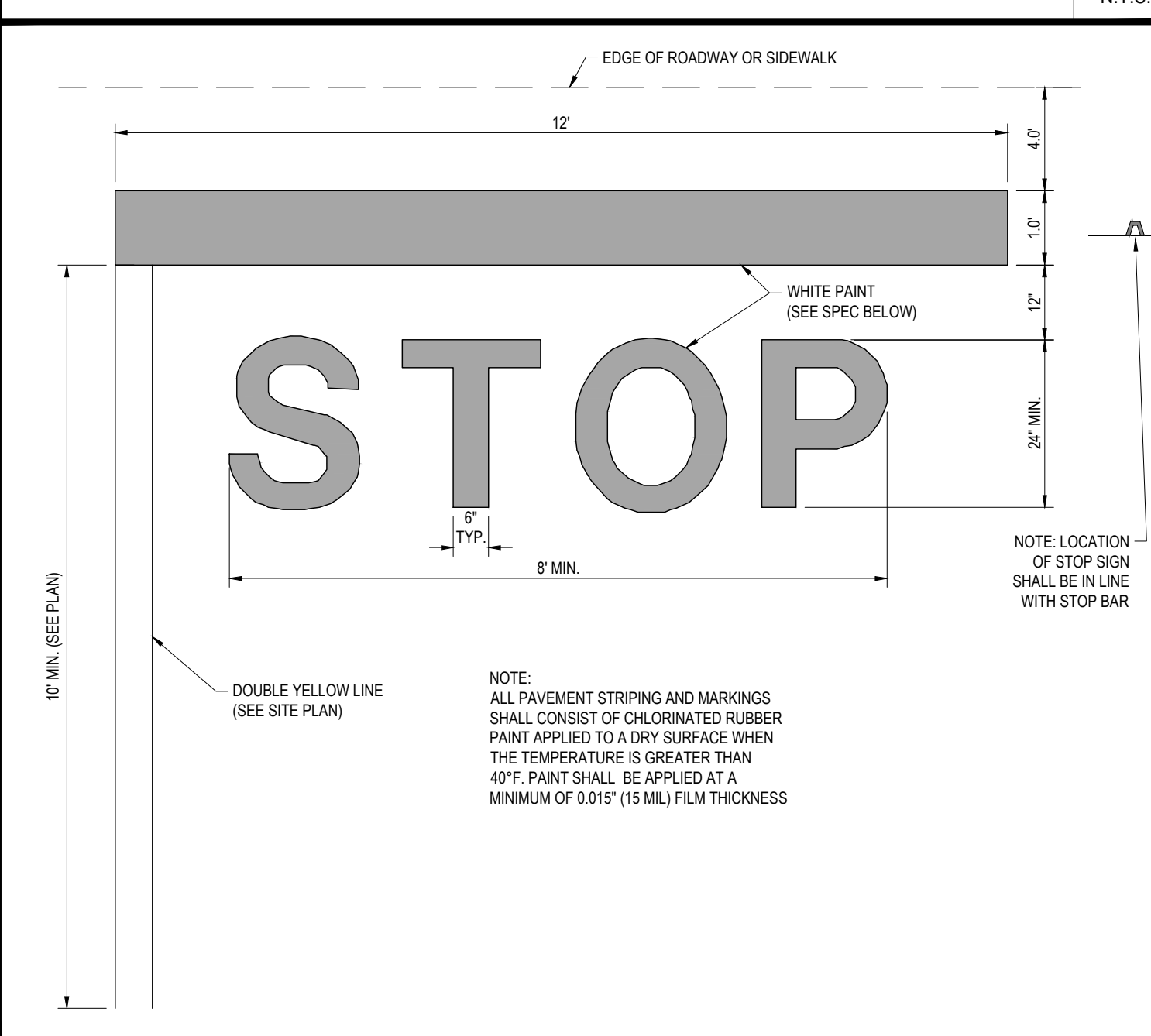
BOLLARD DETAIL

N.T.S.



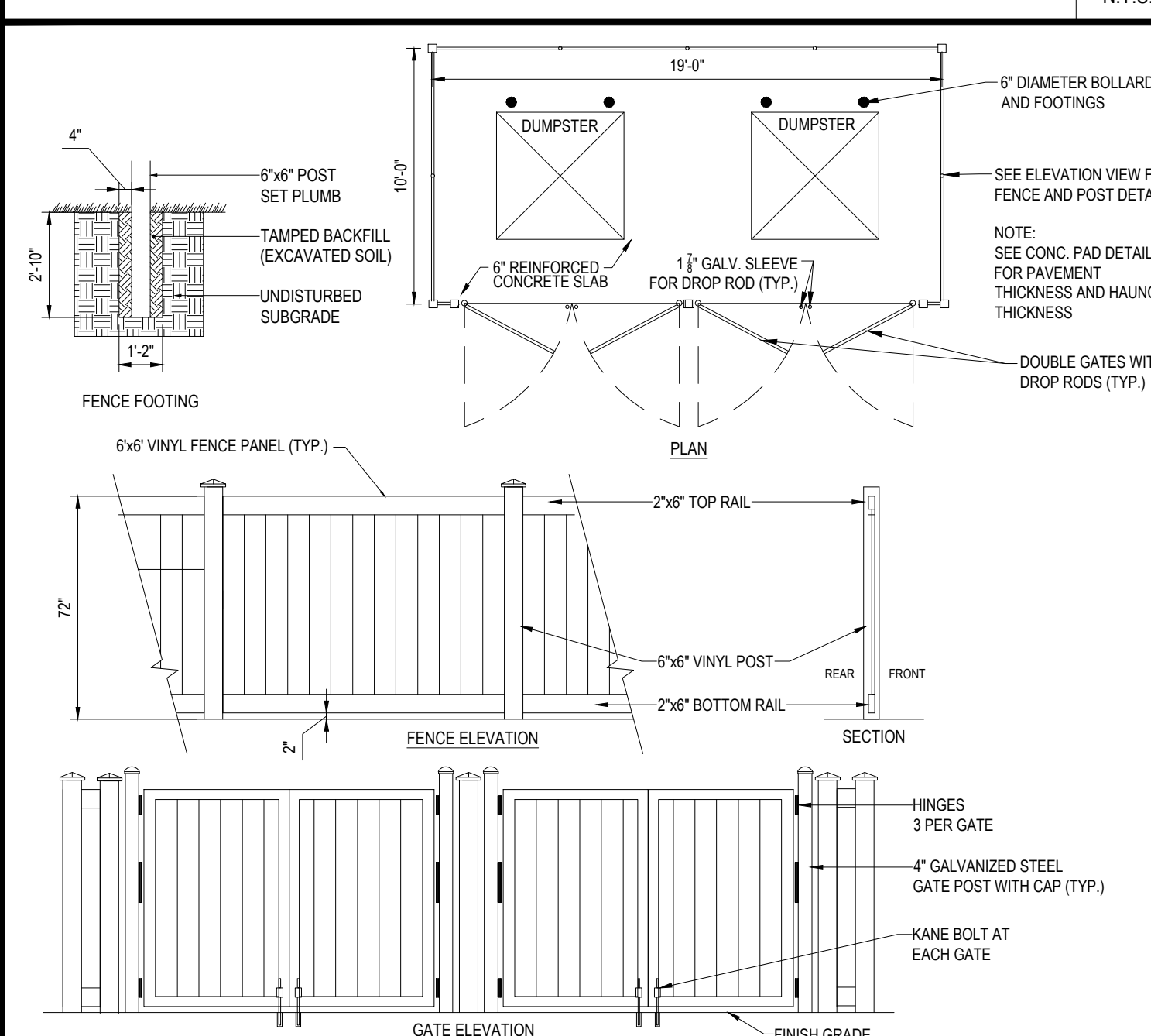
MONOLITHIC CONC. SIDEWALK DETAILS

N.T.S.



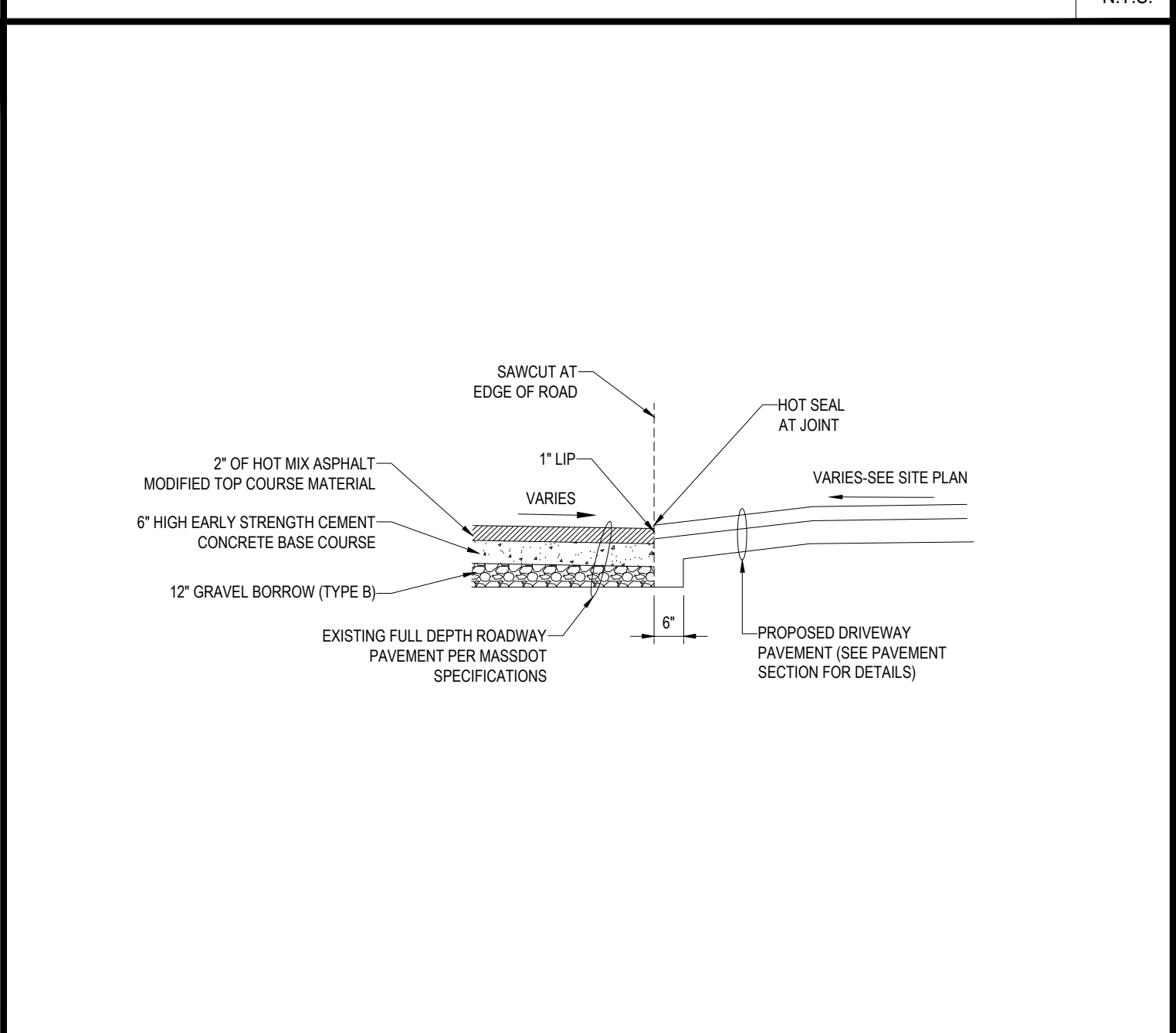
'STOP' BAR DETAIL

N.T.S.



TRASH ENCLOSURE FENCE DETAIL

N.T.S.



DRIVEWAY CONSTRUCTION DETAIL

N.T.S.

**BOHLER ENGINEERING**

SITE CIVIL AND CONSULTING ENGINEERING  
 LAND SURVEYING AND SURVEYING ARCHITECTURE  
 SUSTAINABLE DESIGN PERMITTING SERVICES TRANSPORTATION SERVICES

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 MIAMI, FL  
 MEMPHIS, TN  
 NEW YORK, NY  
 PHOENIX, AZ  
 RICHMOND, VA  
 SAN ANTONIO, TX  
 TAMPA, FL  
 WASHINGTON, DC

REVISIONS

REV	DATE	COMMENT	BY
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			

PRELIMINARY

PROJECT No.: W181193  
 DRAWN BY: DJO  
 CHECKED BY: S.J.M./JAB  
 DATE: 12/08/2018  
 SCALE: AS NOTED  
 CAD I.D.: W181193S50

PROJECT: **SITE DEVELOPMENT PLANS** FOR **DUNKIN' BRANDS**

LOCATION OF SITE  
 MAP #127D, LOTS #89 & #98  
 970 ASHLEY BLVD  
 CITY OF NEW BEDFORD  
 BRISTOL COUNTY,  
 MASSACHUSETTS

**BOHLER ENGINEERING**

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

**J. A. Beaudino**

REGISTERED PROFESSIONAL ENGINEER  
 CIVIL ENGINEERING  
 STATE OF MASSACHUSETTS  
 LICENSE # 10000

SHEET TITLE: **CONSTRUCTION DETAIL SHEET**

SHEET NUMBER: **13** OF 15

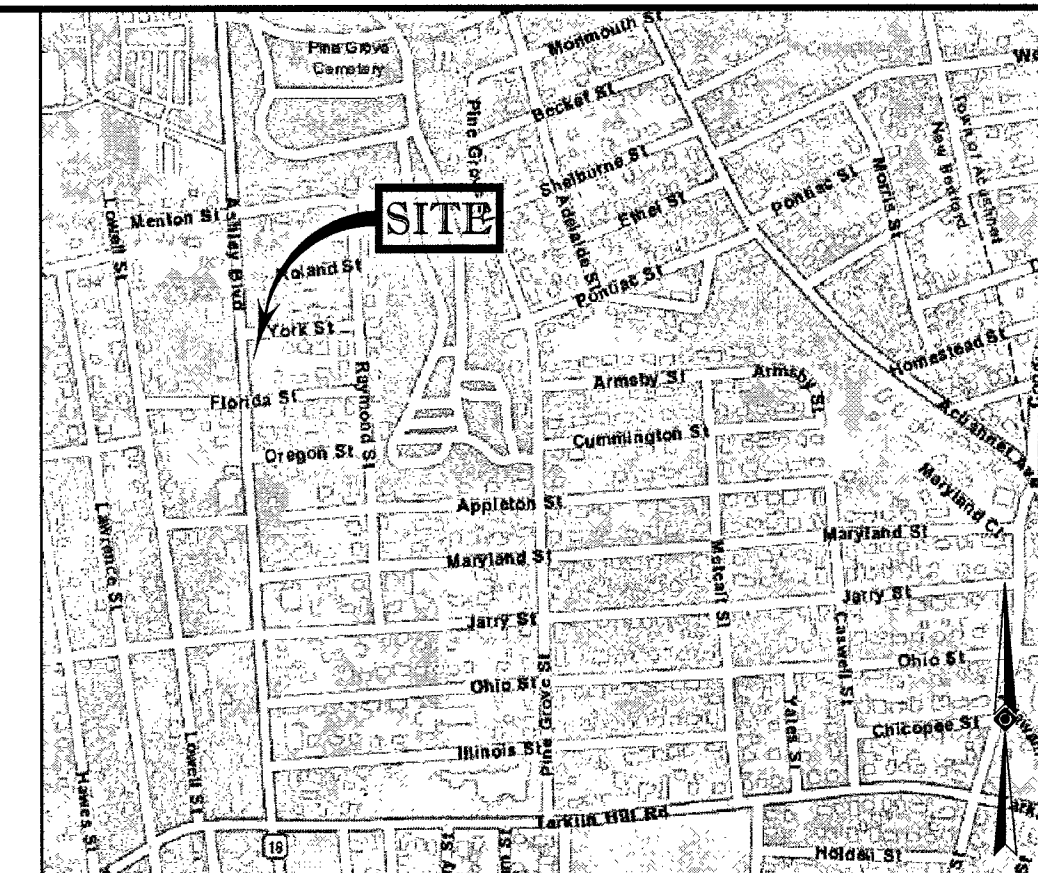
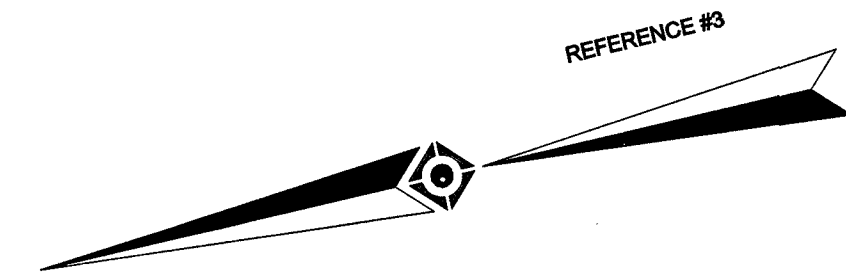
REV 0 - 12/06/2018

P:\181193\Drawings\Permit Set\REV0\DWG181193S50.dwg, 13:06:16, 10/02/2018, 4:28:09 PM, dbeaudino, I:\ADMIN\JAB\352\DWG\REV0.dwg, 11





- LEGEND**
- 124 --- EXISTING CONTOUR
  - 125 --- EXISTING SPOT ELEVATION
  - X 123.45 EXISTING TOP OF CURB ELEVATION
  - X G 123.45 EXISTING GUTTER ELEVATION
  - X FF 123.45 EXISTING FINISHED FLOOR ELEVATION
  - HYDRANT
  - W WATER VALVE
  - EM ELECTRIC METER
  - OH OVERHEAD WIRES
  - G APPROX. LOC. UNDERGROUND GAS LINE
  - T APPROX. LOC. UNDERGROUND TELEPHONE LINE
  - D APPROX. LOC. UNDERGROUND DRAINAGE LINE
  - W APPROX. LOC. UNDERGROUND WATER LINE
  - UP # UTILITY POLE
  - UPLP # UTILITY POLE/LIGHT POLE
  - GW GUY WIRE
  - AREA LIGHT
  - CLEAN OUT
  - SIGN
  - DC DEPRESSED CURB
  - EGC EDGE OF GRAVEL
  - EDGD EDGE OF GRAVEL DRIVE
  - EDC EDGE OF CONCRETE
  - EDP EDGE OF PAVEMENT
  - LSA LANDSCAPED AREA
  - TYPICAL
  - DMH DRAINAGE/STORM MANHOLE
  - SMH SANITARY/SEWER MANHOLE
  - CB CATCH BASIN OR INLET
  - TREE & TRUNK SIZE
  - SHRUBS
  - DWP DETECTABLE WARNING PAD
  - DYC DOUBLE YELLOW LINE
  - HT HEIGHT
  - BLDG BUILDING
  - BFPA BUILDING FOOTPRINT AREA
  - UTO UNABLE TO OPEN
  - EL ELEVATION
  - PVC POLYVINYL CHLORIDE PIPE
  - RCP REINFORCED CONCRETE PIPE
  - INV INVERT ELEVATION
  - GRT GRATE ELEVATION
  - 1.0' OFFSET OF STRUCTURE AT GROUND LEVEL RELATIVE TO PROPERTY LINE
  - [LOT 6] LAND COURT LOT



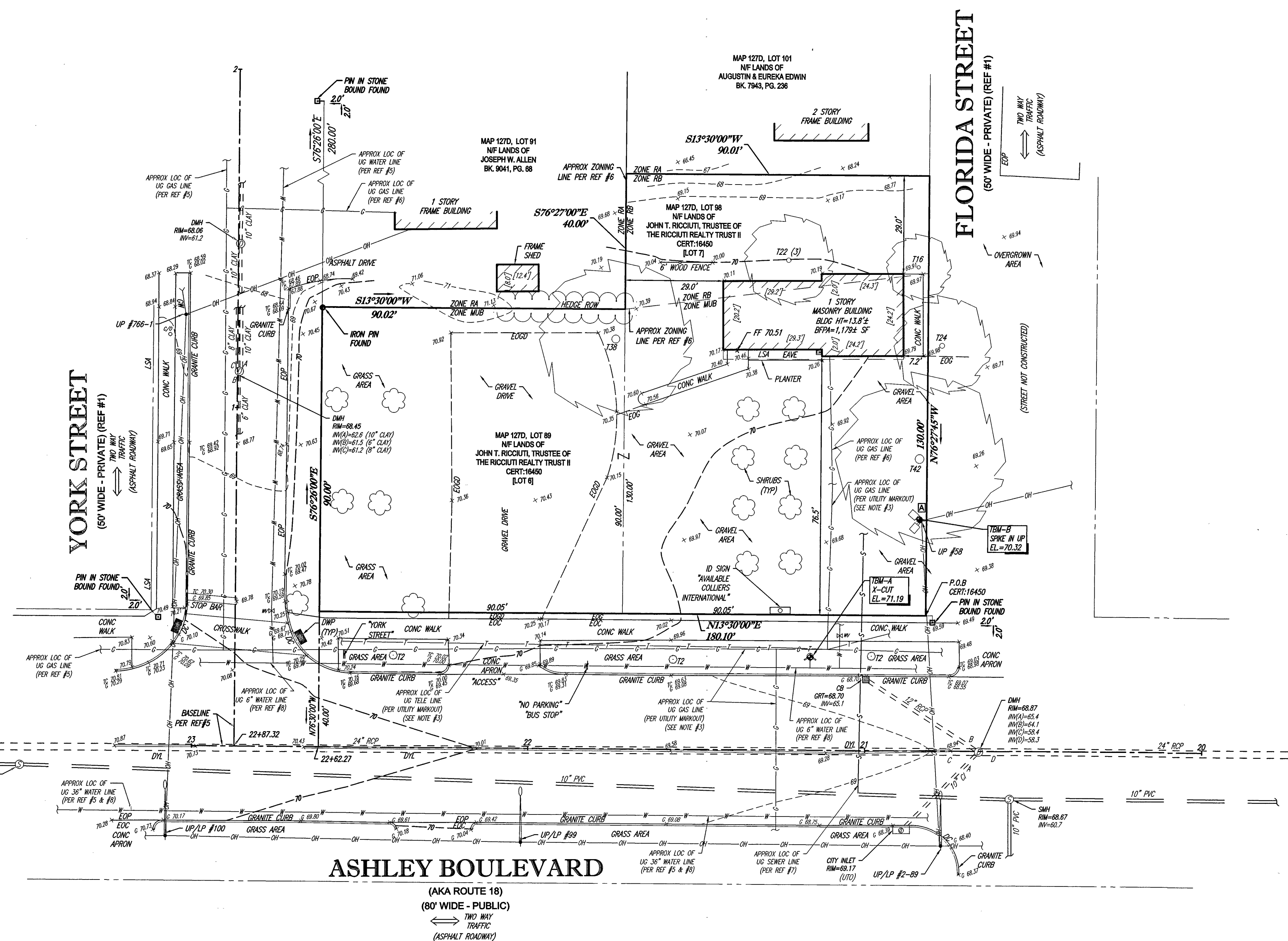
LOCUS MAP  
© 2013 ESRI WORLD STREET MAPS  
NOT TO SCALE

**NOTES:**

1. PROPERTY KNOWN AS LOTS 89 & 98 AS SHOWN ON THE CITY OF NEW BEDFORD, BRISTOL COUNTY, COMMONWEALTH OF MASSACHUSETTS, MAP NO. 127D.
  2. AREA = 19,806 SQUARE FEET OR 0.455 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 ABANDONED.
  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 TITLE REPORT PREPARED BY COMMONWEALTH LAND TITLE INSURANCE COMPANY, HAVING A COMMITMENT NO. 032588, WITH AN EFFECTIVE DATE OF NOVEMBER 9, 2018. THE GENERAL EXCEPTIONS IN SCHEDULE B - SECTION 2 ARE NOT 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.
  7. ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), BASED ON GPS OBSERVATIONS UTILIZING THE KEYSTONE VRS NETWORK (KEYNETOPS).
- TEMPORARY BENCH MARKS SET:  
TBM-A: X-CUT ON FIRE HYDRANT BOLT AT ELEVATION 71.19.  
TBM-B: SPIKE IN UTILITY POLE AT ELEVATION 70.32.
- 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.

**REFERENCES:**

1. THE TAX ASSESSOR'S MAP OF CITY OF NEW BEDFORD, BRISTOL COUNTY, MAP 127D.
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.
3. MAP ENTITLED "SUBDIVISION PLAN OF LAND IN NEW BEDFORD" PREPARED BY ALPHA ENGINEERING CO., SURVEYORS, DATED JUNE 26, 1989, RECORDED WITH THE SOUTH BRISTOL COUNTY REGISTRY OF DEEDS WITH CERTIFICATE 16449, BOOK 89, PAGE 219 AS LAND COURT PLAN 25281B, LOTS 6 & 7.
4. MAP ENTITLED "PLAN OF BOULEVARD TERRACE NEW BEDFORD-MASS OWNED BY JOSEPH O. PAQUETTE LAND CO" RECORDED WITH THE SOUTH BRISTOL COUNTY REGISTRY OF DEEDS AS PLAN BOOK 8, PAGE 4, PLAN 1A.
5. MAP ENTITLED "THE COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS PLAN AND PROFILE OF ASHLEY BLVD. & ACUSHNET AVE. IN THE CITY OF NEW BEDFORD BRISTOL COUNTY FEDERAL AID PROJECT M-4408 (001)" APPROVED ON DECEMBER 23, 1987 BY THE COMMISSIONER OF PUBLIC WORKS. SHEETS 6 & 7 OF 8.
6. THE CITY OF NEW BEDFORD ZONING MAP DATED JUNE 2015.
7. SEWER MAPPING PROVIDED BY THE CITY OF NEW BEDFORD, SHEET 180.
8. WATER MAPPING PROVIDED BY THE CITY OF NEW BEDFORD, SHEET 127D.



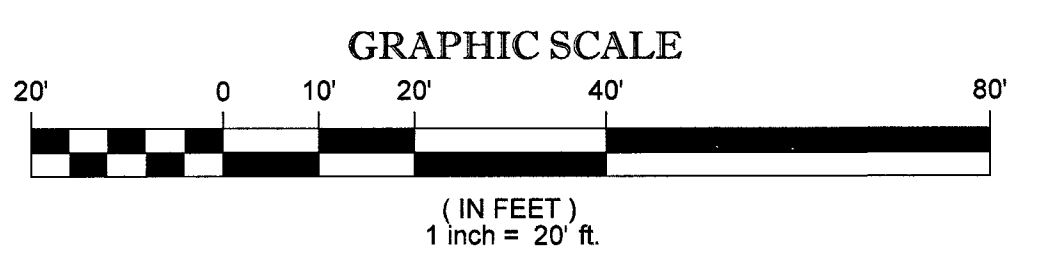
**ASHLEY BOULEVARD**  
(AKA ROUTE 18)  
(80' WIDE - PUBLIC)  
TWO WAY TRAFFIC  
(ASPHALT ROADWAY)

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

UTILITY COMPANY	PHONE NUMBER
AT&T TRANSMISSION	(800) 331-0500
VERIZON	(800) 922-0204
EVERSOURCE - ELECTRIC	(800) 592-2000
NSTRA GAS	(800) 592-2000
ESI ADVANCED WIRELESS NETWORKS, LLC	(978) 254-6000
COMCAST - PEBROKE	(800) 934-8489
OPENCAPE CORPORATION	(800) 235-6475
VERIZON	(800) 922-0204



**TABLE OF APPARENT ENCROACHMENTS**  
 UTILITY POLE NEAR SOUTHERN PROPERTY LINE  
 NOTE: THESE ARE THE POSSIBLE ENCROACHMENTS OBSERVED DURING THE FIELD SURVEY. THERE MAY BE OTHERS NOT RECOGNIZED BY THE SURVEYOR.



THIS SURVEY HAS BEEN PERFORMED IN THE FIELD UNDER MY SUPERVISION, AND TO THE BEST OF MY KNOWLEDGE, BELIEF, AND INFORMATION, THIS SURVEY HAS BEEN PERFORMED IN ACCORDANCE WITH CURRENTLY ACCEPTED ACCURACY STANDARDS.

NOT A VALID ORIGINAL DOCUMENT UNLESS EMBOSSED WITH RAISED IMPRESSION OR STAMPED WITH A BLUE INK SEAL

**GERRY L. HOLDRIGHT, PLS**  
MASSACHUSETTS PROFESSIONAL LAND SURVEYOR #49211



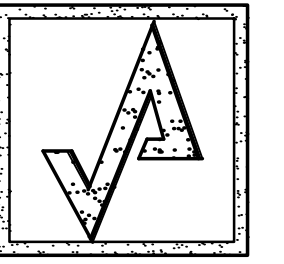
No.	DESCRIPTION OF REVISION	FIELD CREW	DRAWN	APPROVED	DATE
2	UTILITY UPDATE PER REFERENCES 7 & 8	N/A	A.J.D.	G.L.H.	12-5-18
1	ZONING LINE ADDED	N/A	A.J.D.	G.L.H.	11-20-18

FIELD DATE	10-25-2018	<b>BOUNDARY &amp; TOPOGRAPHIC SURVEY</b>			
FIELD BOOK NO.	18-13MA	<b>JOHN T. RICCIUTI</b>			
FIELD BOOK PG.	111	970 ASHLEY BOULEVARD LOTS 89 & 98, MAP 127D CITY OF NEW BEDFORD, BRISTOL COUNTY COMMONWEALTH OF MASSACHUSETTS			
FIELD CREW	B.S.B.	<b>CONTROL POINT ASSOCIATES, INC.</b>			
DRAWN	A.J.D.	ALBANY, NY 5182175010 CHALFONT, PA 2157128800 MANHATTAN, NY 9467804111 MT LAUREL, NJ 6098572099 WARREN, NJ 9086680099			
REVIEWED	J.R.Z.	APPROVED	G.L.H.	DATE	11-6-2018
SCALE	1"=20'	FILE NO.	03-180289	DWG NO.	1 OF 1

CONTROL POINT ASSOCIATES, INC. ALL RIGHTS RESERVED. (1-888-344-7233) AND REQUESTED TO MARK OUT UNDERGROUND FACILITIES AFFECTING AND SERVING THIS SITE. THE UNDERGROUND UTILITY INFORMATION SHOWN HEREON IS BASED UPON THE UTILITY COMPANIES RESPONSE TO THIS REQUEST. SERIAL NUMBER(S):





**AHARONIAN  
& ASSOCIATES INC.  
ARCHITECTS**

310 George Washington Highway  
Suite 100  
Smithfield, Rhode Island  
0 2 9 1 7

T 401-232-5010  
F 401-232-5080  
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**REVISIONS**

NUMBER	REMARKS	DATE
1	OWNER COMMENTS	12/05/18
2	OWNER COMMENTS	12/05/18

**FOR REVIEW**

PROJECT TITLE

**DUNKIN' BRANDS™**  
[eatdrinkthink]  
PC# NEW

970 ASHLEY BLVD  
NEW BEDFORD, MA  
BRISTOL COUNTY

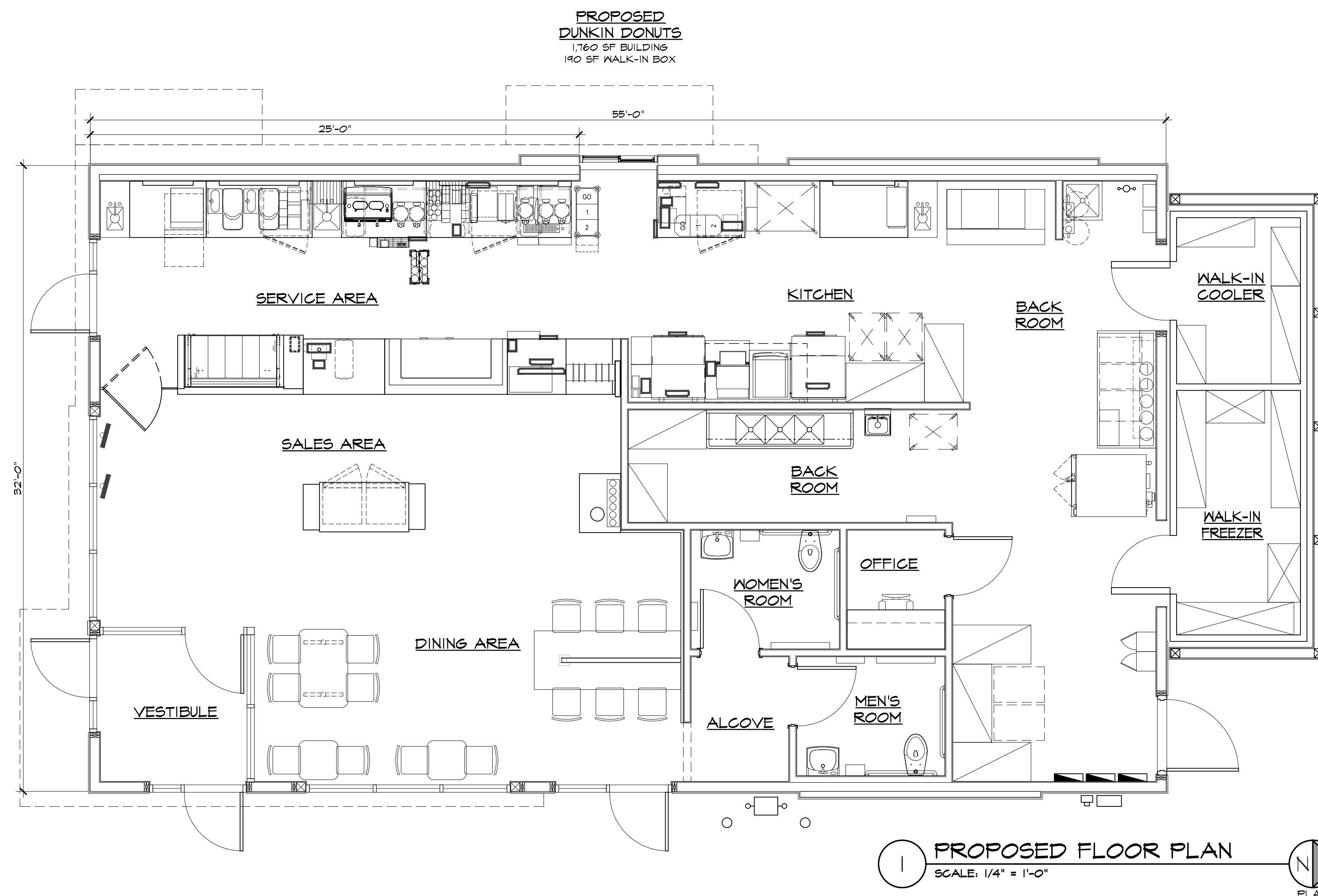
DRAWING TITLE

**PROPOSED FLOOR  
PLAN**

DATE OCT 25, 2018	PROJ NO 18144
DRAWN BY ECM	CHECKED BY JB

DRAWING NUMBER

**K1.1**

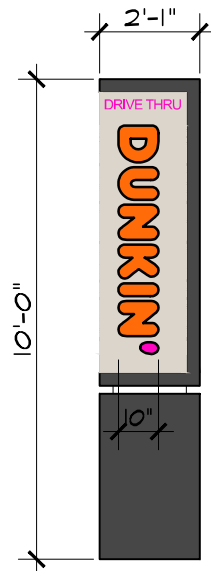


### SIGN CODE:

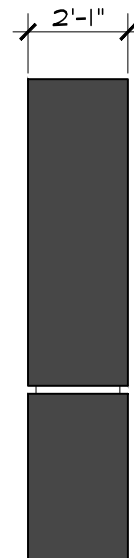
1 SF SIGN AREA = 1 LINEAR FT FRONTAGE  
SIGN SHALL NOT EXCEED 25 SF IN AREA  
10'-0" MAX FROM GROUND TO BOT OF SIGN  
15'-0" MAX FROM GROUND TO TOP OF SIGN

### SIGN SCHEDULE

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



FRONT VIEW



SIDE VIEW

## PROPOSED PYLON SIGN

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

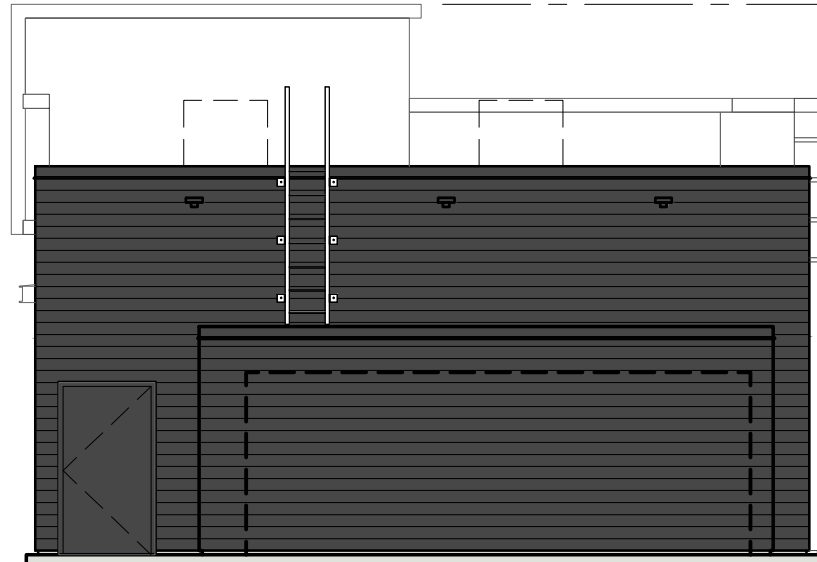


AHARONIAN  
& ASSOCIATES, INC.  
Architects

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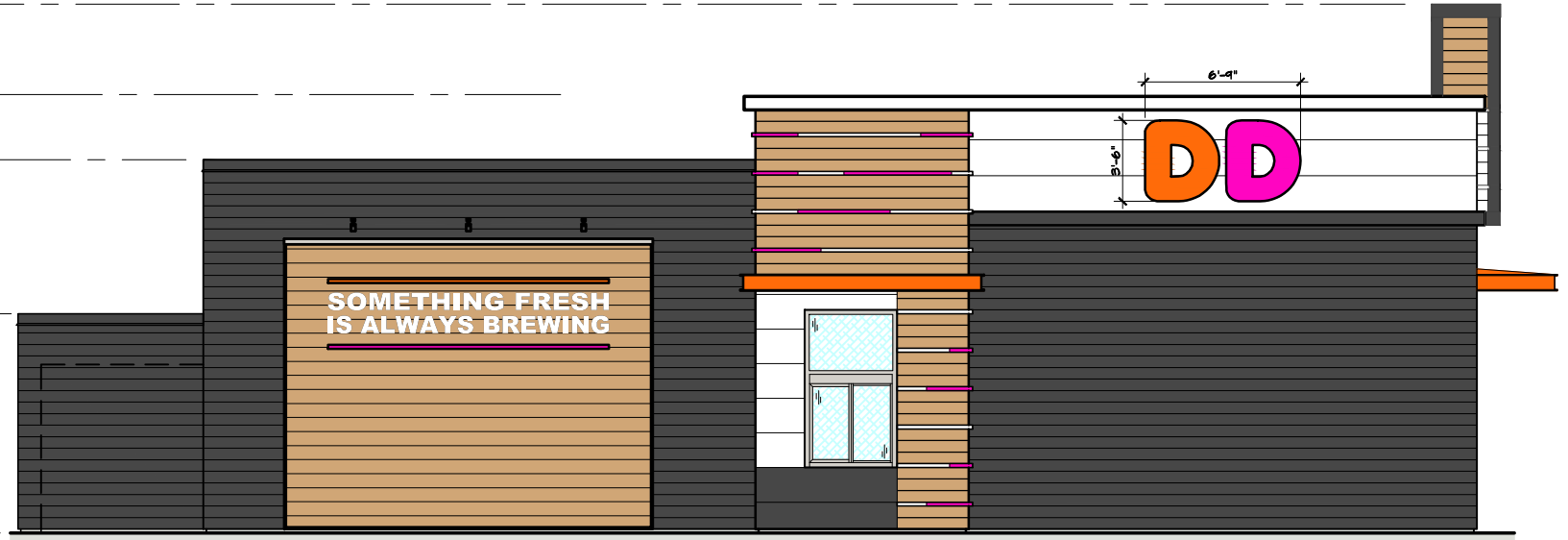
970 ASHLEY BLVD  
NEW BEDFORD, MA  
NOVEMBER 12, 2018



**PROPOSED NORTH ELEVATION**

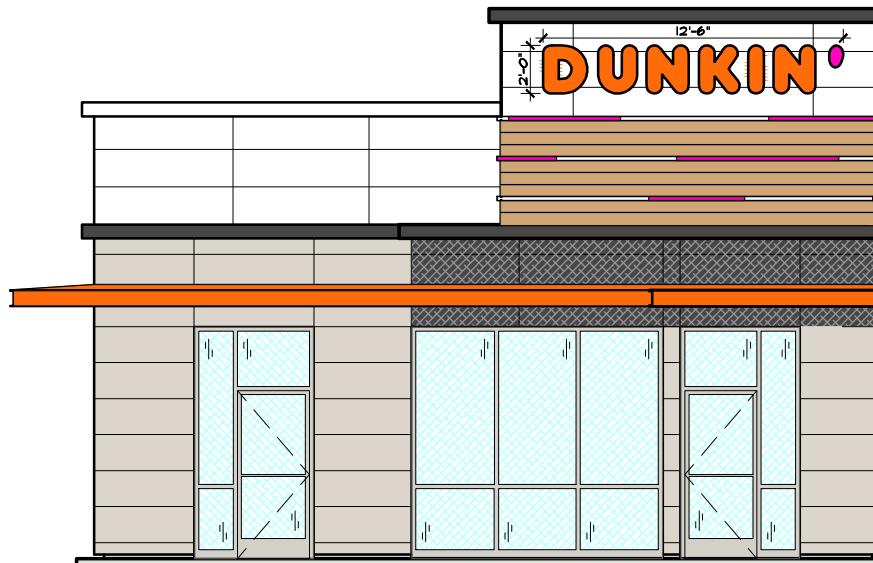
SCALE: 1/8"=1'-0"

- TOP MONOLITH  
EL = 22'-11" AF
- TOP UPPER PARAPET  
EL = 19'-0" AF
- TOP LOWER PARAPET  
EL = 16'-2" AF
- TOP WALK-IN BOX  
ENCLOSURE  
EL = 9'-0"
- TOP SLAB  
REF EL = 0'-0"



**PROPOSED WEST ELEVATION**

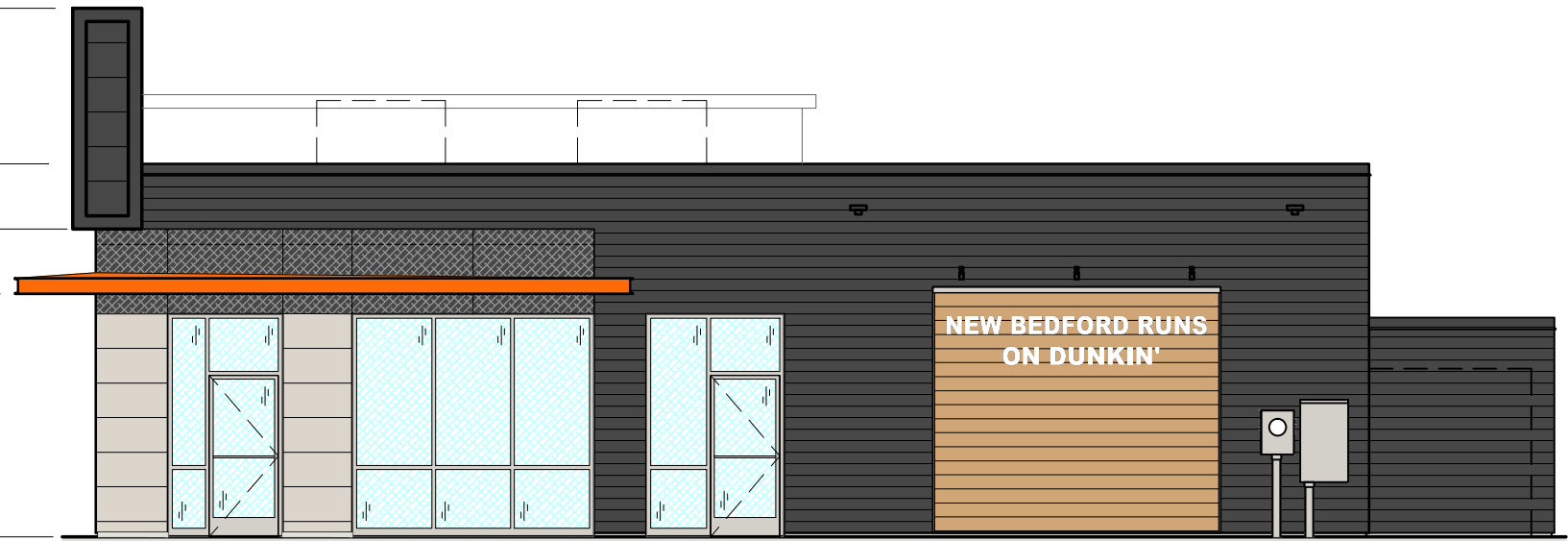
SCALE: 1/8"=1'-0"



**PROPOSED SOUTH ELEVATION**

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

- TOP MONOLITH  
EL = 22'-11" AF
- TOP UPPER PARAPET  
EL = 19'-2" AF
- TOP LOWER PARAPET  
EL = 16'-2" AF
- BOT CHARCOAL BAND  
EL = 13'-4" AF
- BOT ORANGE BAND  
EL = 10'-6" AF
- TOP SLAB  
REF EL = 0'-0"



**PROPOSED EAST ELEVATION**

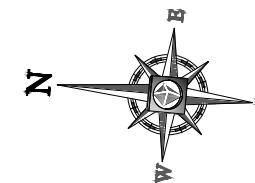
SCALE: 1/8"=1'-0"



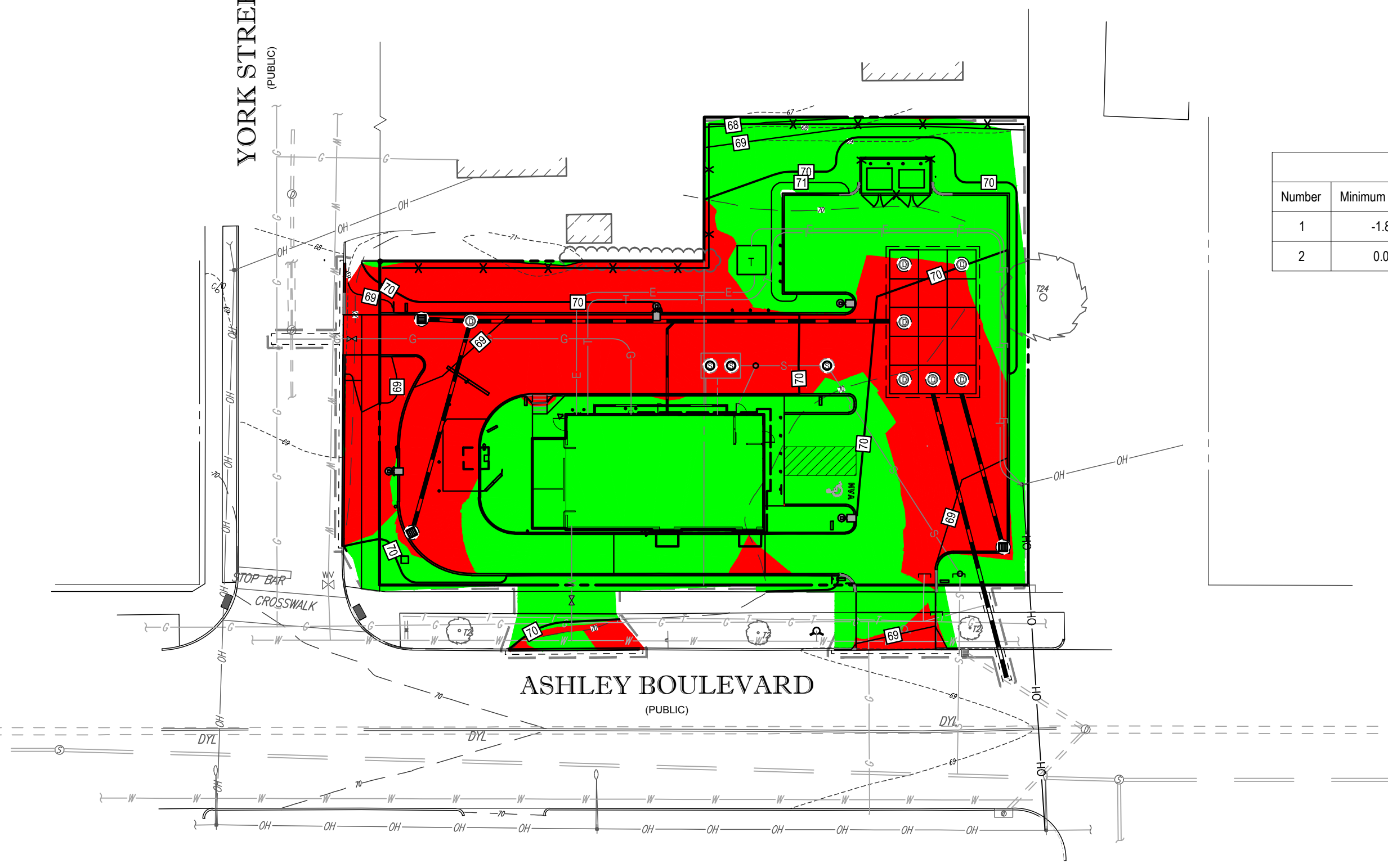
AHARONIAN  
& ASSOCIATES, INC.  
Architects  
401-232-5010  
www.arch-eng.com



970 ASHLEY BLVD  
NEW BEDFORD, MA  
DECEMBER 5, 2018



YORK STREET  
(PUBLIC)



ASHLEY BOULEVARD  
(PUBLIC)

Elevations Table			
Number	Minimum Elevation	Maximum Elevation	Color
1	-1.889	0.000	Red
2	0.000	1.602	Green

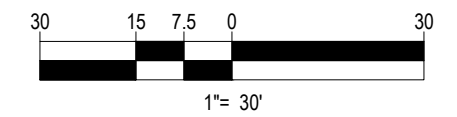
CUT/FILL EXHIBIT

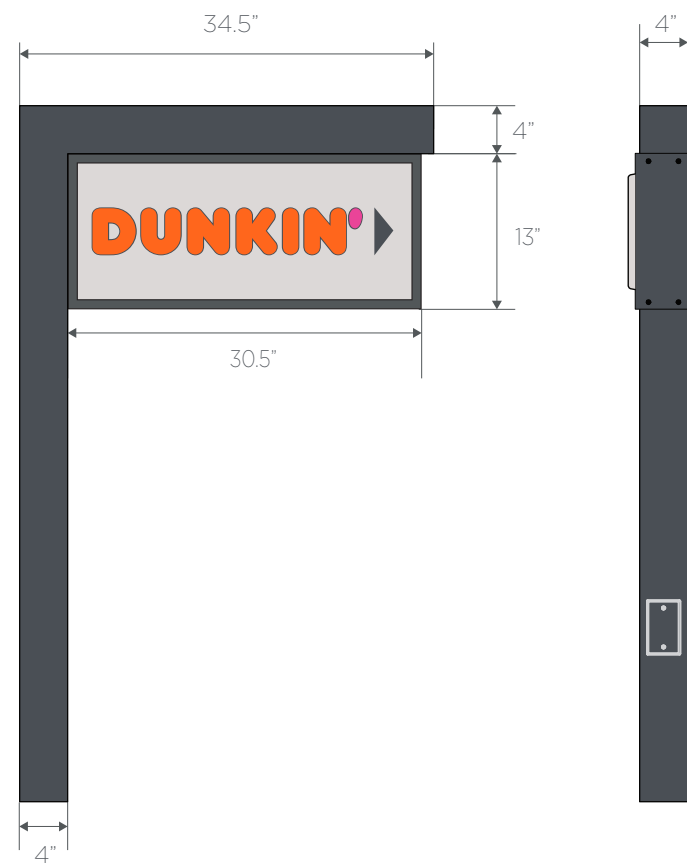
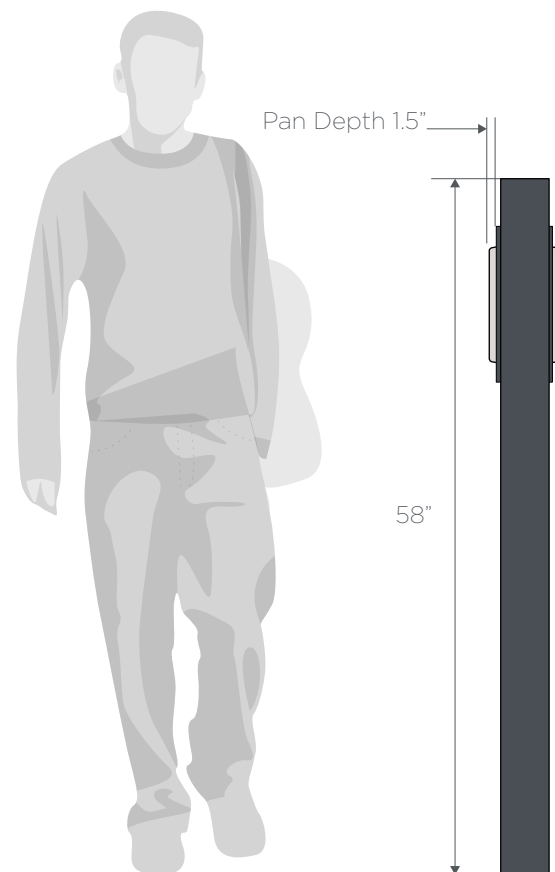
370 ASHLEY BOULEVARD  
NEW BEDFORD, MASSACHUSETTS

DATED: 12/06/2018

PREPARED BY  

**BOHLER**  
**ENGINEERING**  
 352 TURNPIKE ROAD  
 SOUTHBOROUGH, MA 01772  
 (508) 480-9900  
 www.bohlerengineering.com





- A
- 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	

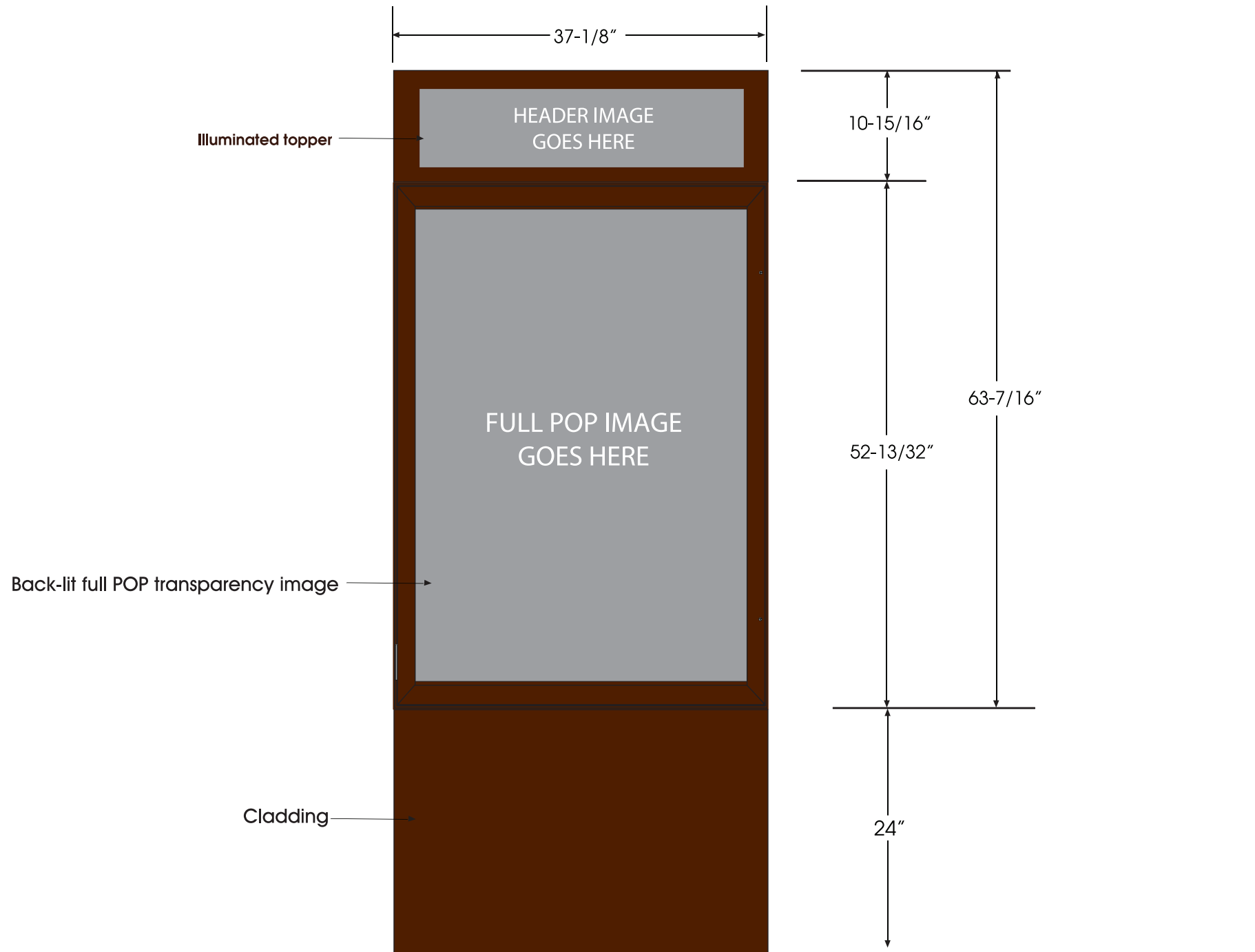
The intent of this drawing is to show a conceptual representation of the proposed signage. Due to variations in printing devices and substrates the finished product may differ slightly from drawings

**DIRECTIONAL SIGN - Fabrication / Install Details**

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

**DD-SS-DS-01**  
 DRAWING NAME:





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.

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

**DUNKIN' BRANDS™**  
[eatdrinkthink™]

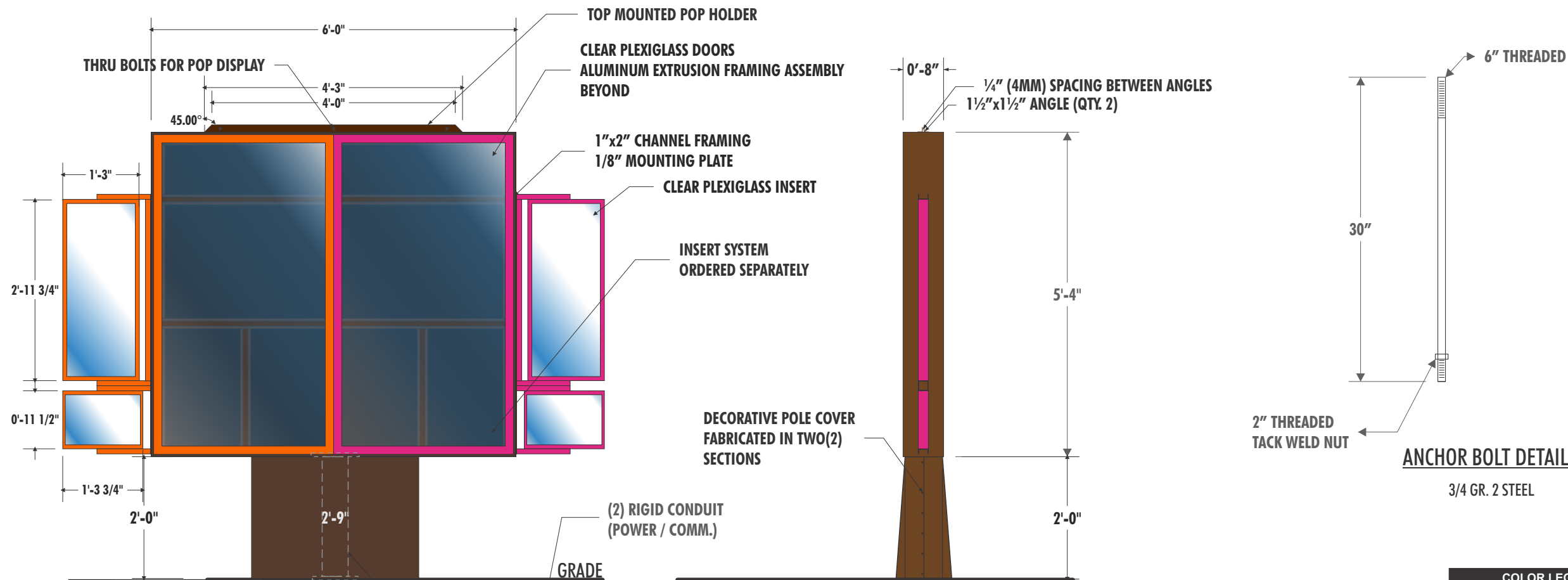
Revisions:


DD Rotating  
Preview Board  
(Optional)

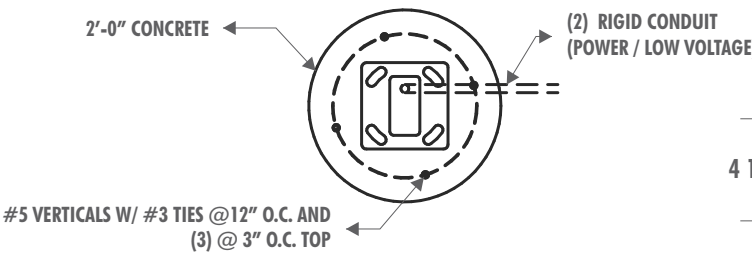
FILE

Date: 9/30/09  
Scale: NTS  
Drawn: C HART

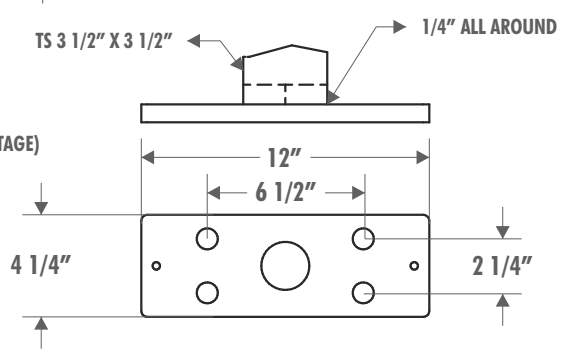
DT-6



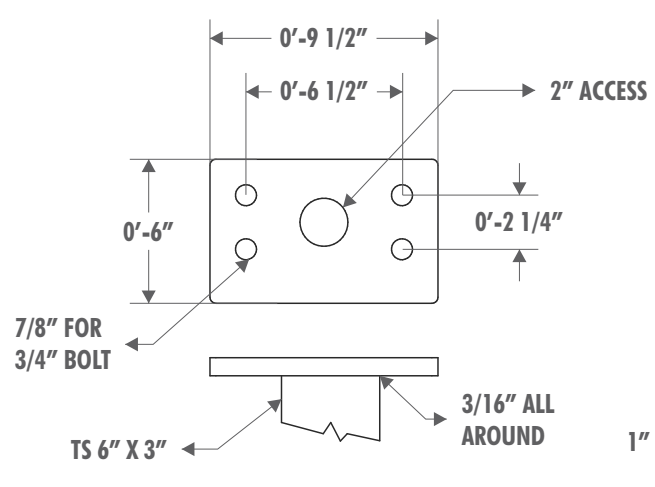
COLOR LEGEND		
	PMS/PAIN	VINYL
	ORANGE	3M 3630-3123
	MAGENTA	3M 3630-1379
	BLUE	3M 3630-8508
	BROWN	3M 3630-59
	BM 2116-10	N/A
	PMS 165	N/A



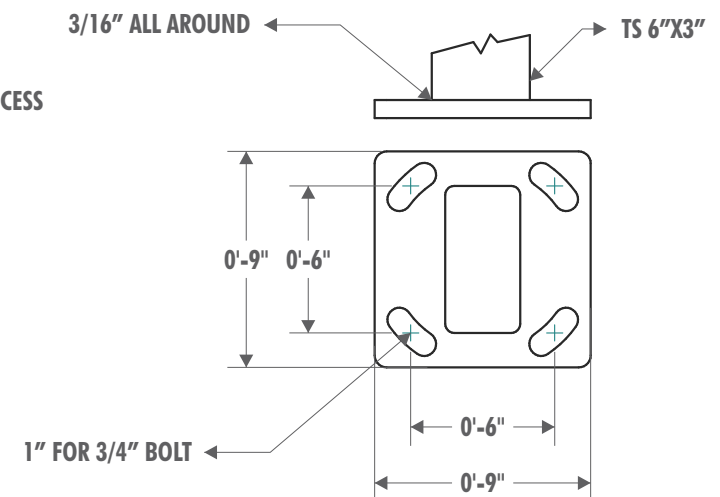
**FOOTING PLAN VIEW**  
0.49 CU YD CONCRETE



**SIGN MOUNTING DETAIL**  
3/4 ASTM A-36 STEEL



**TOP PLATE DETAIL**  
3/4 ASTM A-36 STEEL



**BASE PLATE DETAIL**  
3/4 ASTM A-36 STEEL

BASE PLATE # 1

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

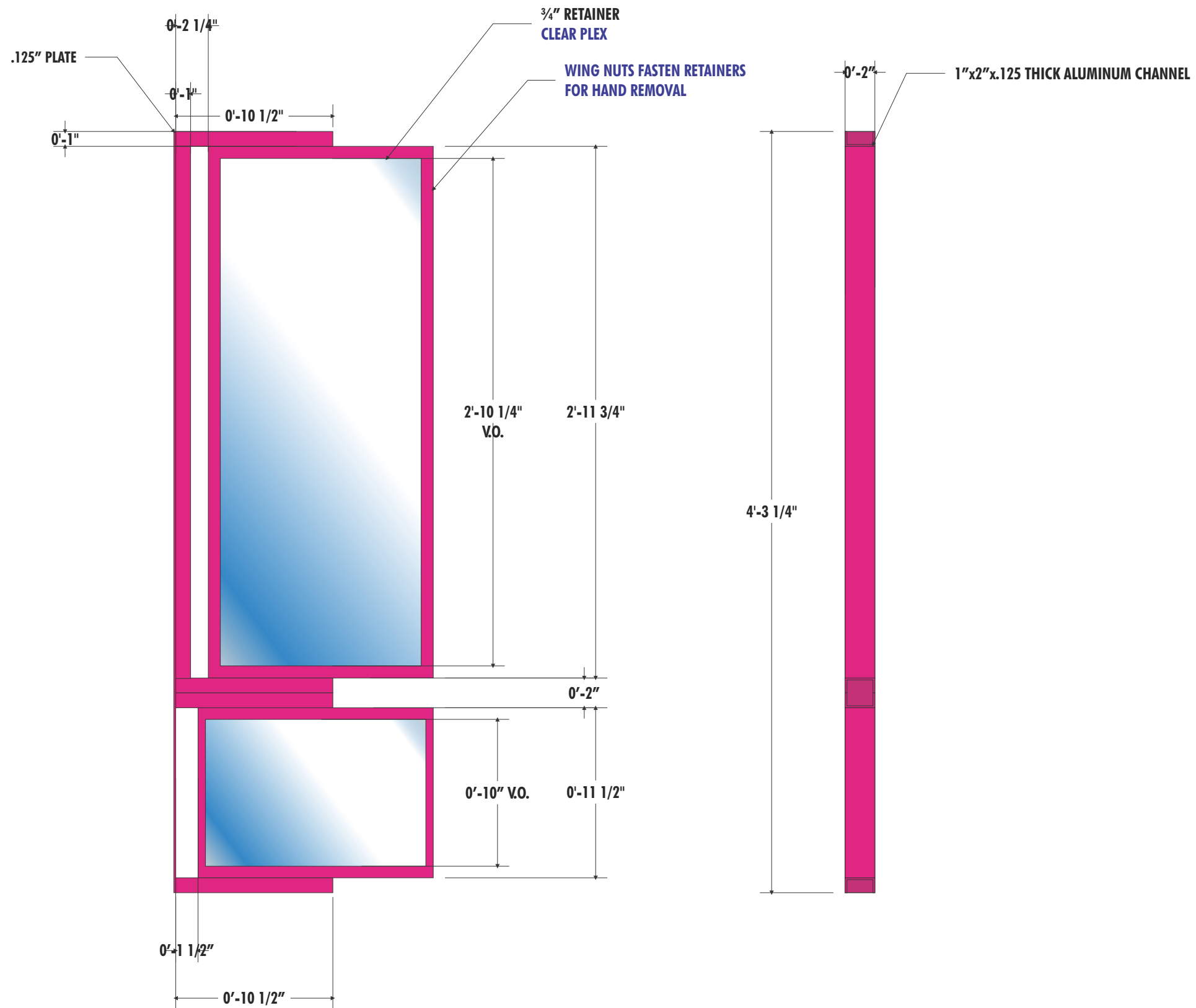
<b>PART NUMBER</b>	DD-DT-MB-NS
<b>DESCRIPTION</b>	2 PANEL DD MENUBOARD NO SPEAKER
<b>CUSTOMER CONTACT</b>	Michele Inglese
<b>SALESMAN / PM</b>	Preston Smith
<b>DESIGNER</b>	B.PERRY
<b>DWG. DATE</b>	10-16-14
<b>REV. DATE / REVISION</b>	06-19-15 10" Depth 07-22-15 8" Depth angle cover
<b>SCALE</b>	As Noted
<b>DD DRAWING #</b>	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.

**Underwriters Laboratories Inc.**  
 DRY   
 DAMP   
 WET

**NCSS EXTERIOR MENUBOARD W/O SPEAKER - DT-1**



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 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

NCSS EXTERIOR MENUBOARD W/O SPEAKER

**DESIGN SPECIFICATIONS ACCEPTED BY:**

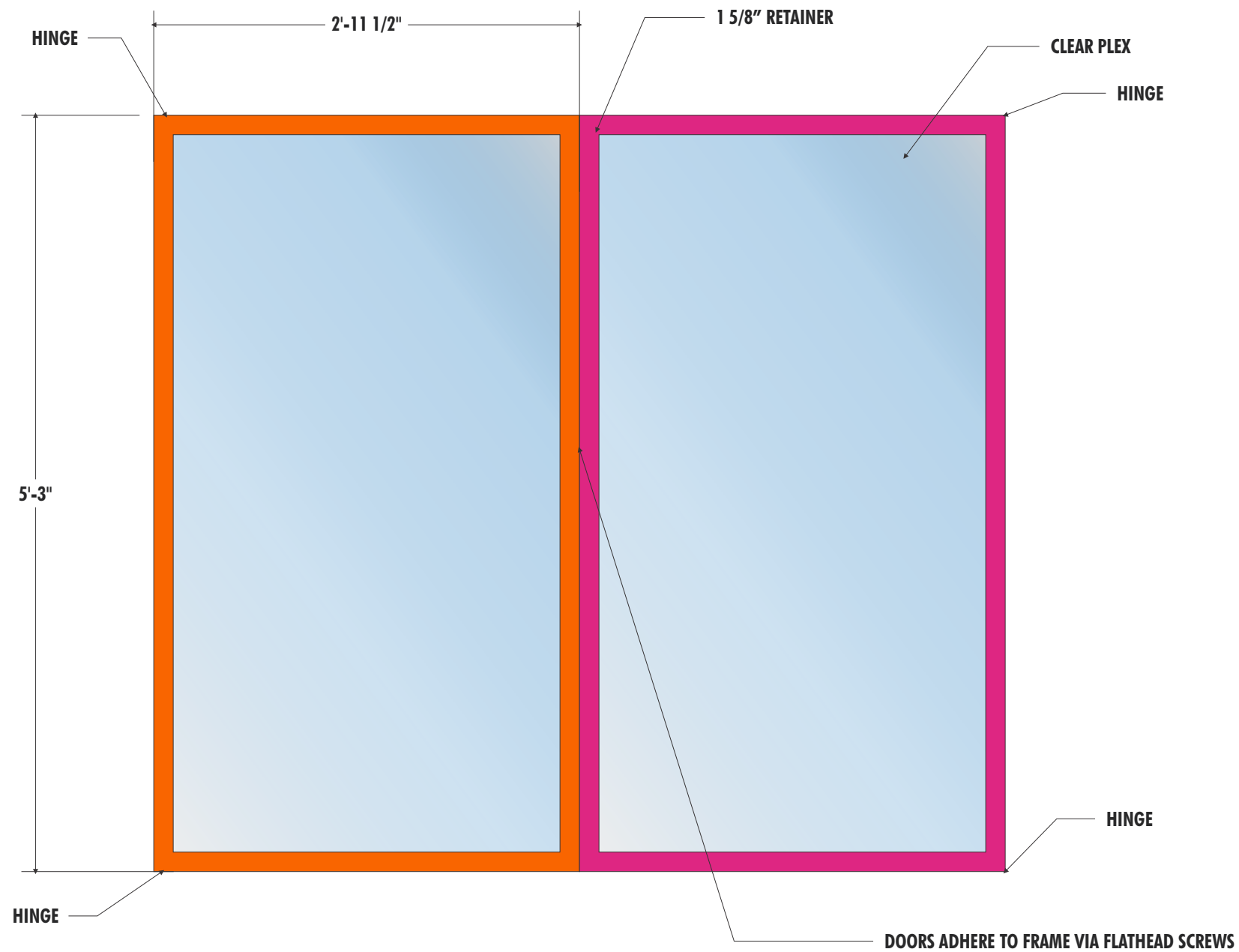
EST:	CLIENT:
SLS/PM:	LANDLORD:

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.





**NCSS EXTERIOR MENUBOARD W/O SPEAKER - DT-1**



**HILTONDISPLAYS**

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 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

NCSS EXTERIOR MENUBOARD W/O SPEAKER

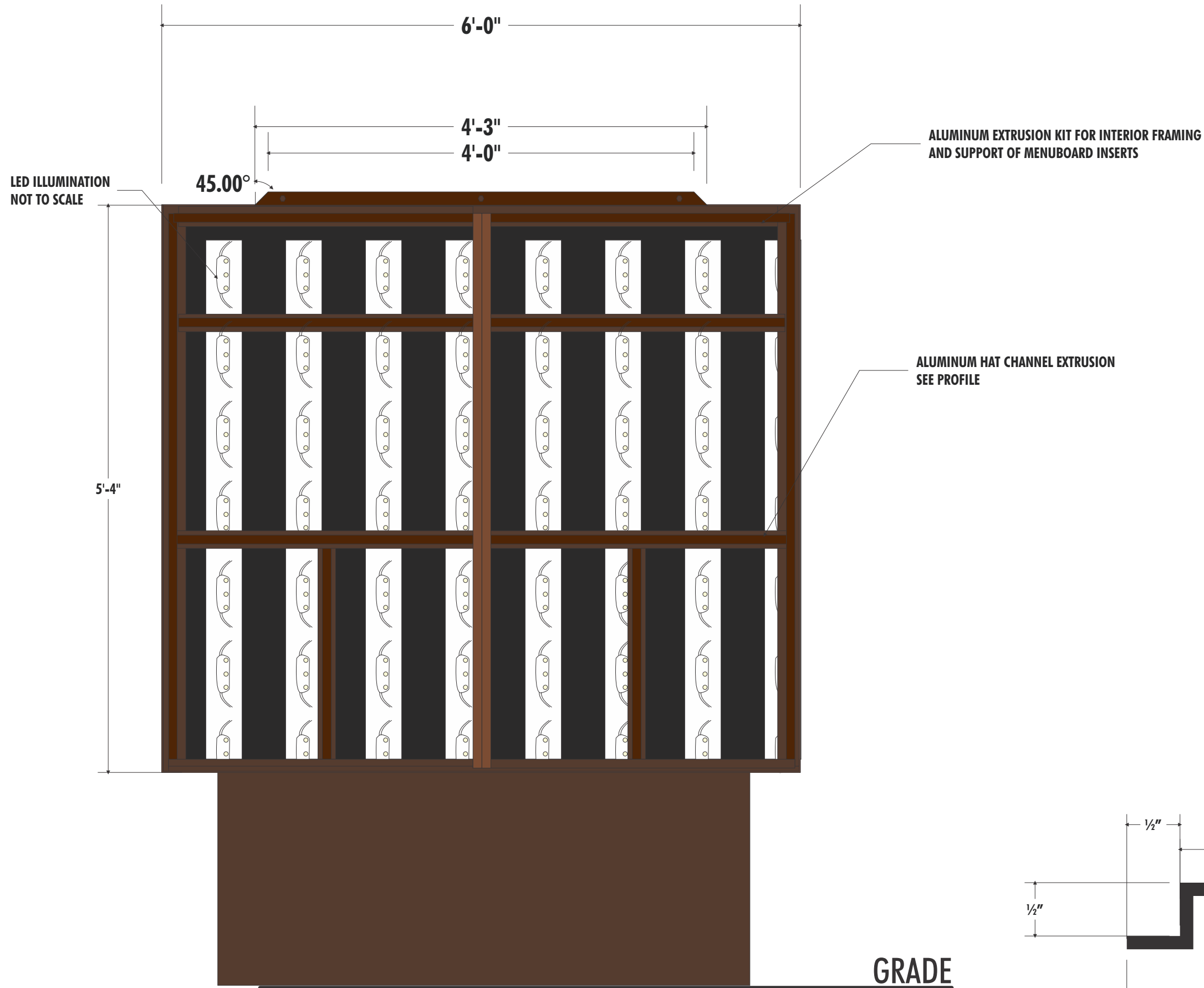
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EST:	CLIENT:
SLS/PM:	LANDLORD:

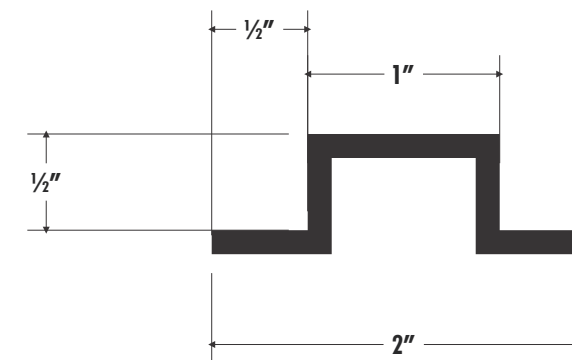
THE INTENT OF THIS DRAWING IS TO SHOW A CONCEPTUAL REPRESENTATION OF THE PROPOSED SIGNAGE. DUE TO VARIATIONS IN PRINTING DEVICES AND SUBSTRATES, THE FINISHED PRODUCT MAY DIFFER SLIGHTLY FROM DRAWING.



**NCSS EXTERIOR MENUBOARD W/O SPEAKER - DT-1**



COLOR LEGEND		
	PMS/PAIN	VINYL
	ORANGE	3M 3630-3123
	MAGENTA	3M 3630-1379
	BLUE	3M 3630-8508
	BROWN	3M 3630-59
	BM 2116-10	N/A
	PMS 165	N/A



**HAT CHANNEL EXTRUSION PROFILE**



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

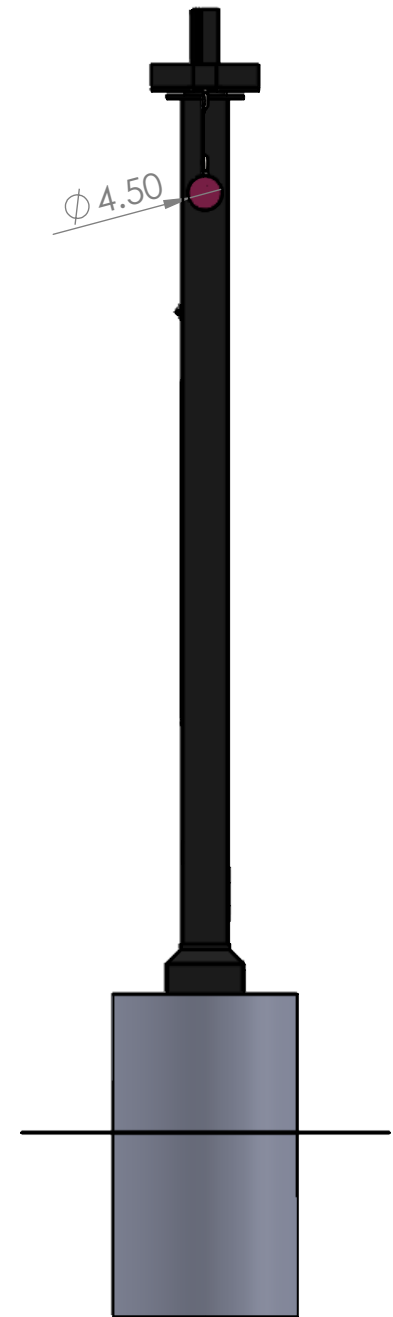
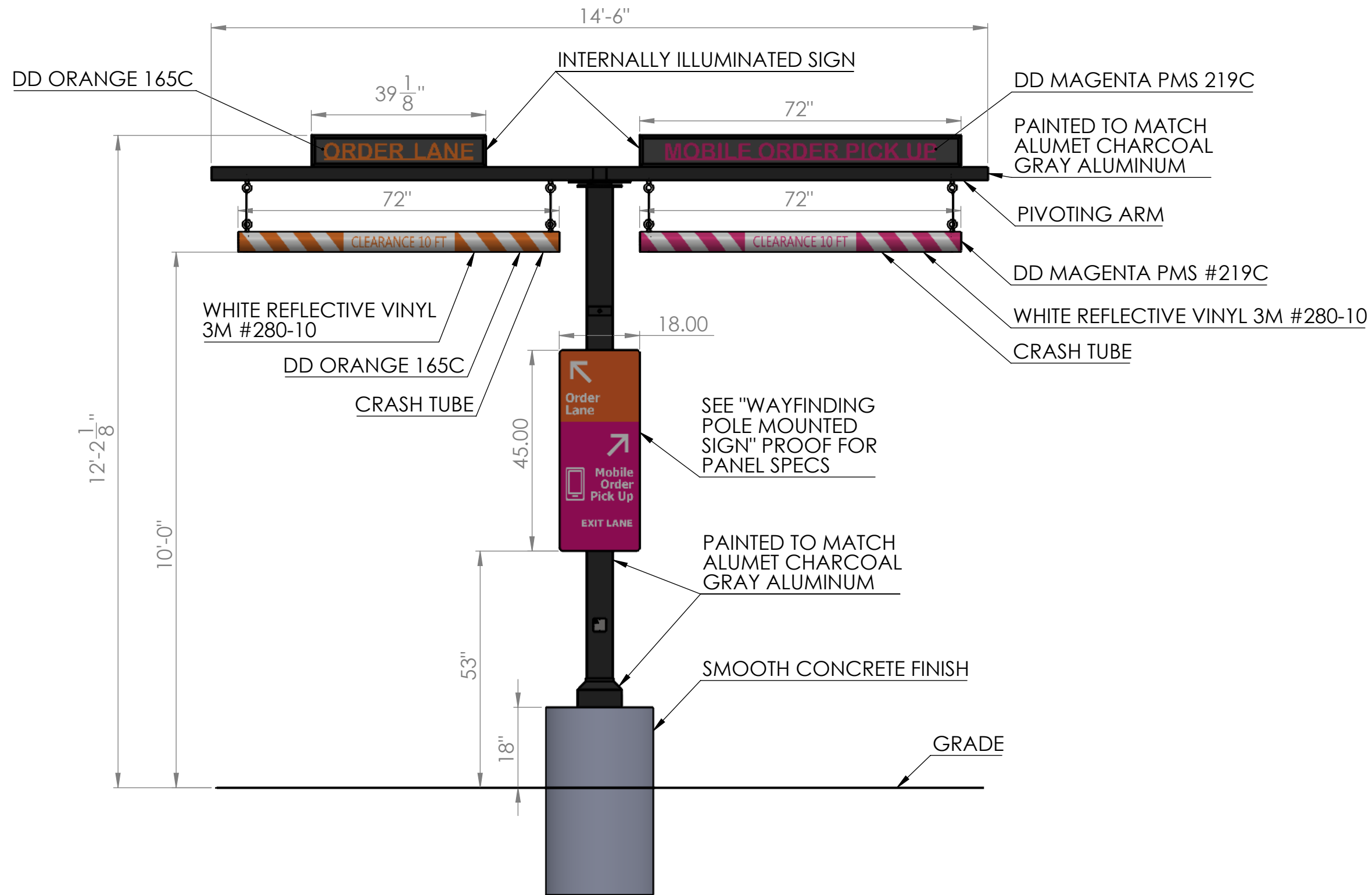
NCSS EXTERIOR MENUBOARD W/O SPEAKER

**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.





**Uni-Structures, Inc.**

8540 COBB CENTER DR.  
 STE 100 KENNESAW, GA 30152  
 PHONE: (770)-499-2000  
 PHONE: (800)-386-9864

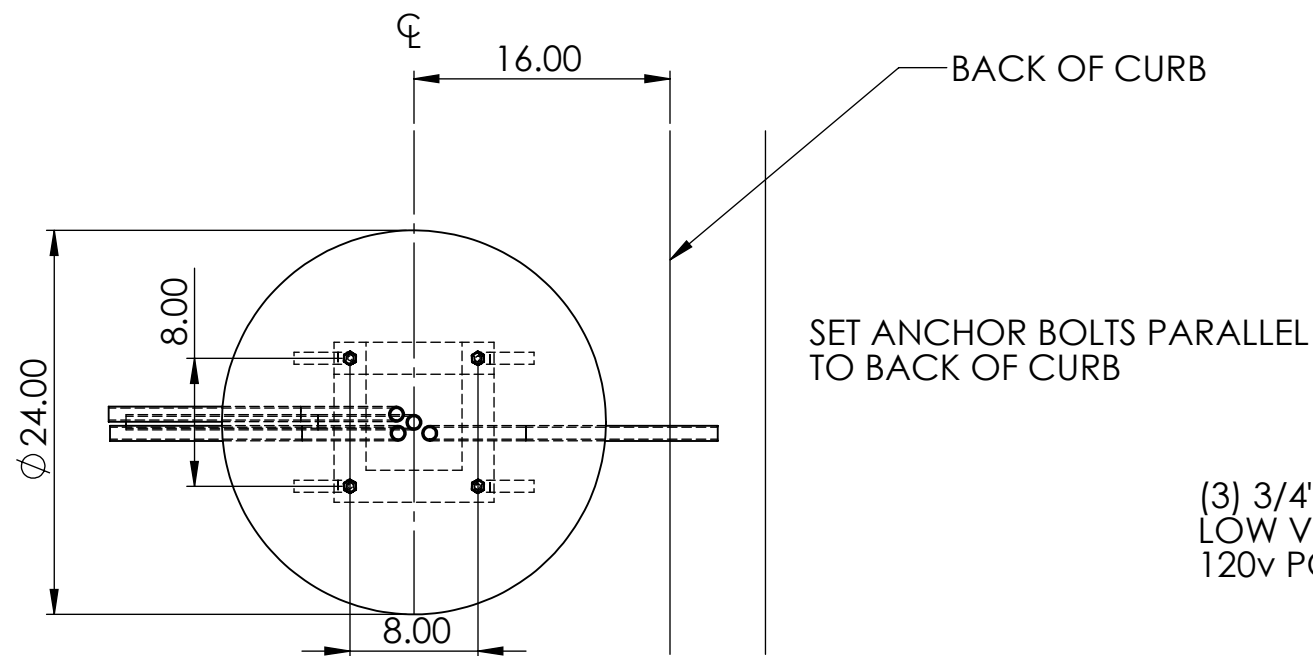
CLIENT: <b>DUNKIN DONUTS</b>		MADE IN THE USA
LOCATION: Marietta, GA		DATE: 5/18/2018
STORE:	DWG #:	ASSEMBLY #:
FILE LOCATION: z:\00----Projects\Dunkin Donuts\4----Standards\Clearance Bar Double\		
SALES: D. McDougal	DESIGNER: D. Carter	SCALE: NTS

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**OVERVIEW:**  
**DOUBLE CLEARANCE BAR**

**PART #:**  
**DUNKIN\_DOUBLE\_CLEARANCE\_BAR**

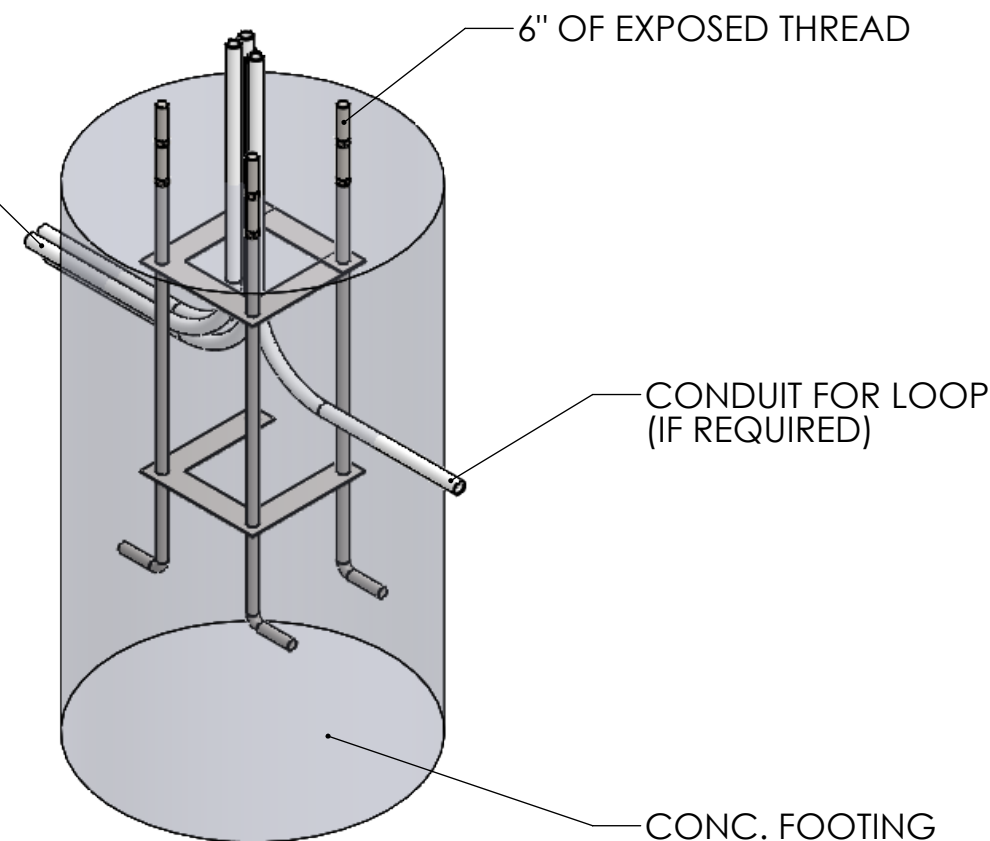
SHEET: 1 OF 9



BACK OF CURB

SET ANCHOR BOLTS PARALLEL TO BACK OF CURB

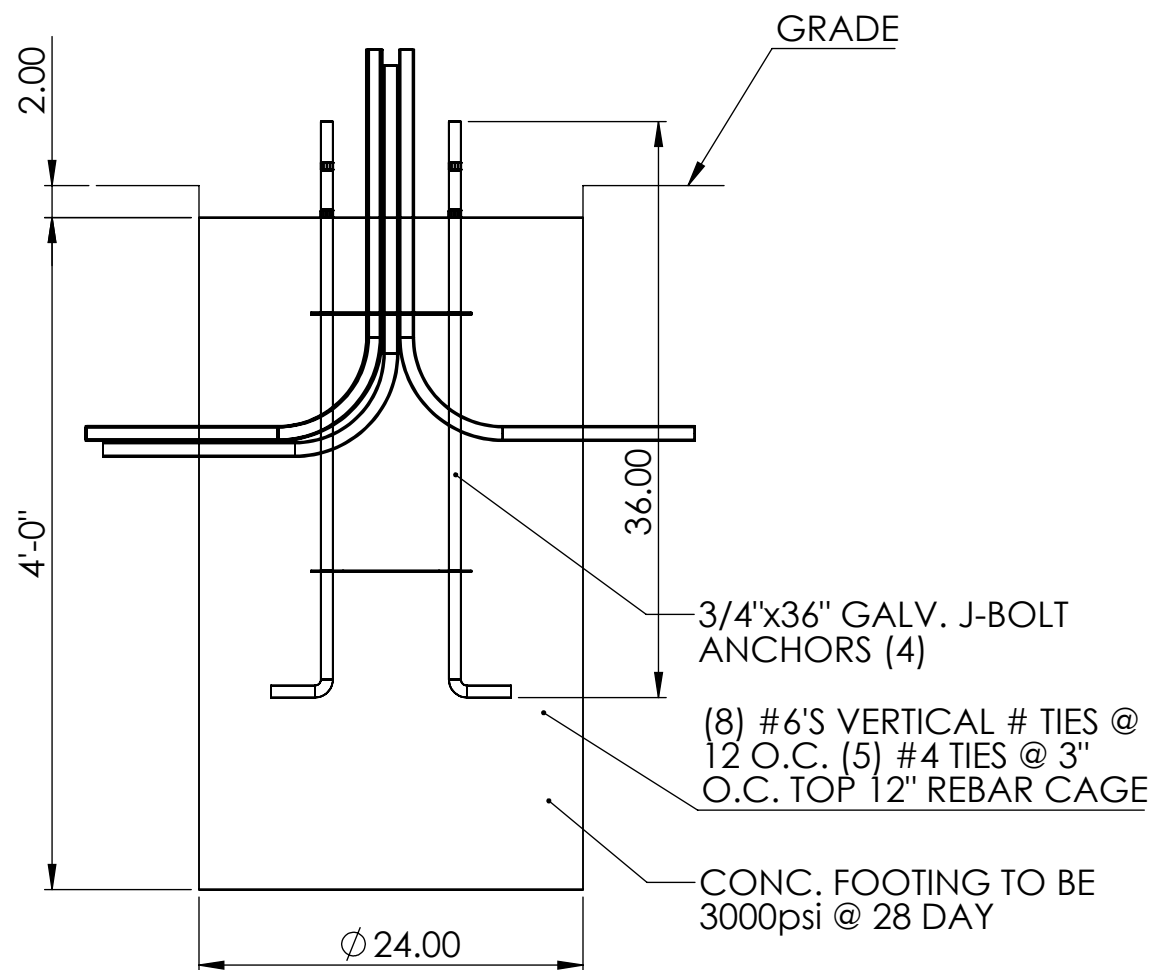
(3) 3/4" CONDUIT FOR LOW VOLTAGE AND 120v POWER



6" OF EXPOSED THREAD

CONDUIT FOR LOOP (IF REQUIRED)

CONC. FOOTING



GRADE

3/4"x36" GALV. J-BOLT ANCHORS (4)

(8) #6'S VERTICAL # TIES @ 12 O.C. (5) #4 TIES @ 3" O.C. TOP 12" REBAR CAGE

CONC. FOOTING TO BE 3000psi @ 28 DAY

**ANY SITE SPECIFIC ENGINEERING SUPERSEDES THIS DETAIL**



**Uni-Structures, Inc.**

8540 COBB CENTER DR.  
STE 100 KENNESAW, GA 30152  
PHONE: (770)-499-2000  
PHONE: (800)-386-9864

CLIENT: **DUNKIN DONUTS**

LOCATION: Marietta, GA

STORE: DWG #:

ASSEMBLY #: #####

FILE LOCATION: Z:\00----Projects\Dunkin Donuts\4----Standards\Clearence Bar Double\

SALES: D. McDougal

DESIGNER: D. Carter

SCALE: NTS

MADE IN THE USA

DATE:

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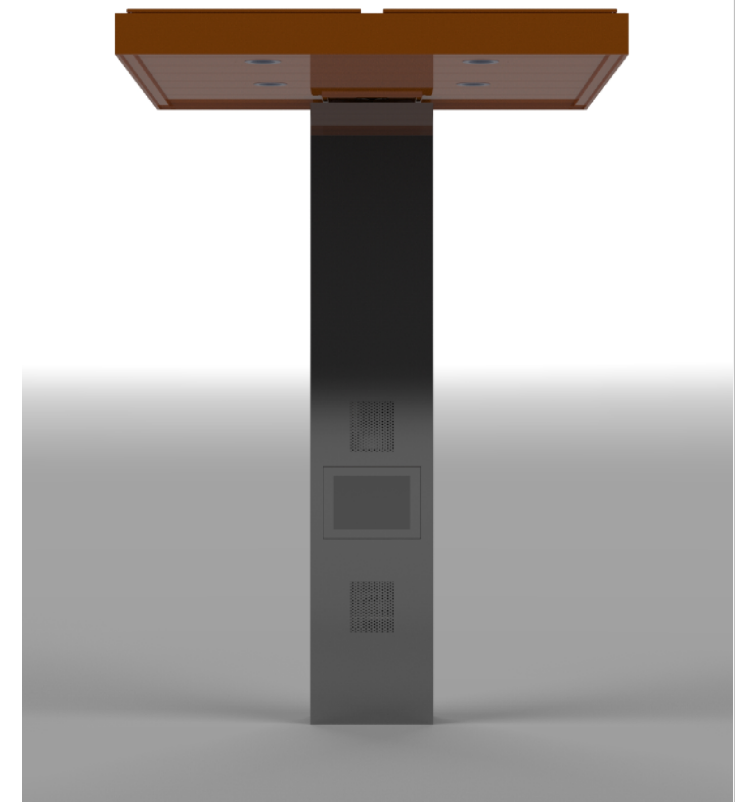
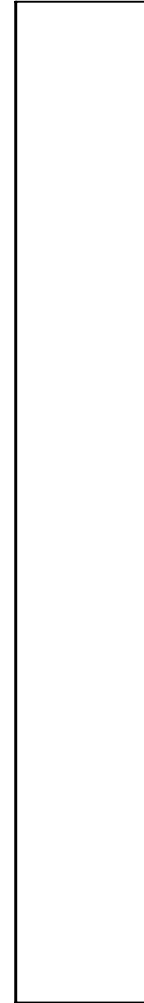
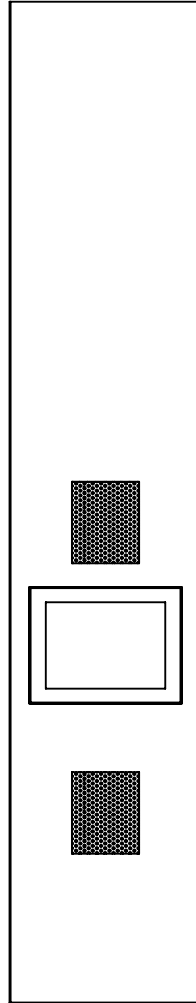
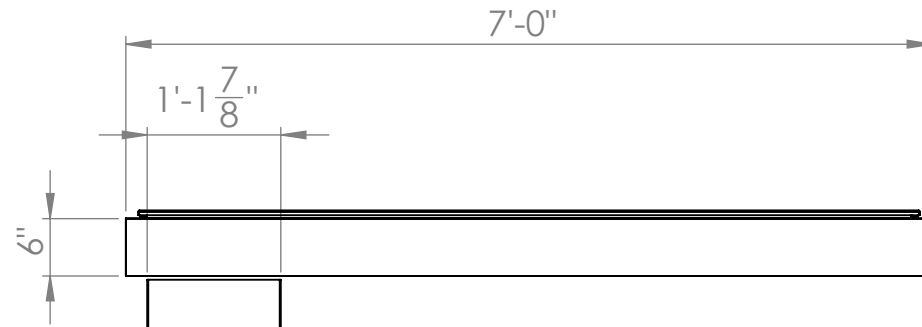
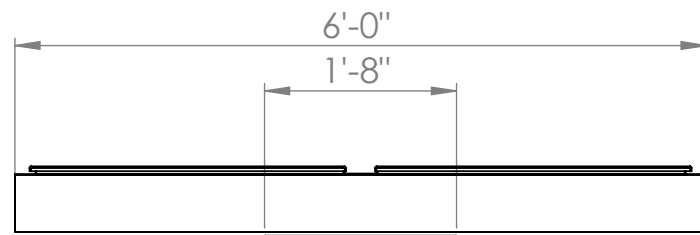
VIEW:

**FOOTING DETAIL**

PART #:

**200066-08**

SHEET: 9 OF 9



**Uni-Structures, Inc.**

8540 COBB CENTER DR.  
 STE 100 KENNESAW, GA 30152  
 PHONE: (770)-499-2000  
 PHONE: (800)-386-9864

CLIENT: <b>DUNKIN</b>		MADE IN THE USA	
		DATE: 01/24/2018	
LOCATION: CITY, ST			
STORE: #####	DWG #: 1015A	ASSEMBLY #: 203162-01	
FILE LOCATION: \\DC1\Design Files\0---SolidWorks Files\			
SALES: DANA McDOUGAL	DESIGNER: CJ MAYS	SCALE: NTS	

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ASSEMBLY #:  
**203162-01**

SHEET: 1 OF 1

Product Information	
Manufacturer	Cree, Inc
Model Number (SKU)	BXSP-C-xx-3ME-E-30K--UL
Serial Number	PL10350-001
LED Type	MDA

Product Description
Cast Cobra Head, 5 polymeric optics; 1 covering each LED

Driver Information (Where Applicable)
Philips Advance Xitanium LEDINTA1500C100DO

Length	Width	Height
23"	9.25"	5.25"

Sample
<p>The following sample was submitted for evaluation</p> <div style="text-align: center;">  </div>



NVLAP Lab Code 500089-0

Key Photometric Data	Sphere Output	Goniophotometer	
Luminous Flux	7209.0	7059.6	lm
Efficacy	72.91	71.47	lm/W
Correlated Color Temperature (CCT)	3001	K	
Color Rendering Index (CRI)	80		
R <sub>9</sub>	4		
Duv	0.000154		
S/P Ratio*	1.27		

Electrical Measurements	Sphere		Goniophotometer		
	120V	277V	120V	277V	
Input Wattage	98.87	98.10	98.76	98.09	W
Input Current	0.83	0.38	0.82	0.38	A
Input Voltage	120.09	277.16	120.15	276.94	V
Power Factor	0.997	0.942	0.998	0.942	
Off-State Power	0	0	0	0	W
Total Harmonic Distortion (Voltage)	0.06	0.05	0.12	0.07	%
Total Harmonic Distortion (Amperage)	5.32	9.57	4.95	10.87	%

**Note:** All photometric measurements taken at 120VAC.

Luminous Intensity Distribution	Goniophotometer	
Max Candela	6054.4	Cd
Angle of Max Candela (Horizontal)	60	°
Angle of Max Candela (Vertical)	67.5	°

Key Test Parameters	Sphere Output	Goniophotometer	
Stabilization Time	57	71	min
Total Operating Time (Stabilization + Test)	62	91	min
Ambient Temperature	25.1	24.7	°C

# HAWK - model: WP-LED2

## Endurance Wallpack

# WAC LIGHTING

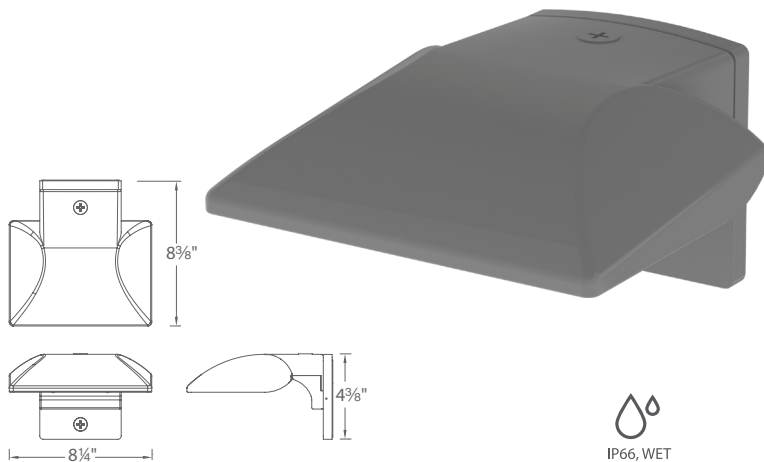
Responsible Lighting®

Fixture Type:

Catalog Number:

Project: \_\_\_\_\_

Location: \_\_\_\_\_



### SPECIFICATIONS

**Construction:** Die-cast aluminum

**Power:** Integral driver in luminaire. Universal voltage input (120V-277V)

**Dimming:** 100% - 30% with 0 - 10V dimmer (120V - 277V)

100% - 15% with Electronic Low Voltage (ELV) dimmer (120V only)

**Finish:** Architectural Bronze, Graphite, and White

**Standards:** IP66, Wet Location, ETL & cETL Listed

**Total Harmonic Distortion:** 35%

**Operating Temperature:** -40°C (-40°F) to 40°C (104°F)

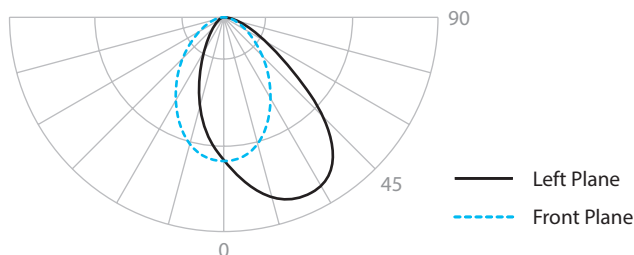
### PRODUCT DESCRIPTION

Die cast aluminum factory sealed housings with patent pending design for a water and dust proof IP66 rated outdoor luminaire

### FEATURES

- Factory-Sealed LED Light Engine
- Die-Cast Aluminum Construction
- 20° Forward Throw Illumination
- Photo/Motion Sensor Compatible (Sold Separately)
- Built-in Level For Easy Adjustment
- Suitable to install in all directions
- Multi-Function Dimming: ELV (120V) or 0-10V
- 85 CRI
- 100,000 hour rated life

### PHOTOMETRY



### ORDER NUMBER

		Power	Comparable	Color Temp	Delivered Lumens	CBCP	Finish
	<b>WP-LED219</b>	19W	39W HID	30 3000K	1345	1022	<b>aBZ</b> Architectural Bronze <b>aGH</b> Architectural Graphite <b>aWT</b> Architectural White
				50 5000K	1435	1056	
	<b>WP-LED227</b>	27W	70W HID	30 3000K	2050	1436	
				50 5000K	2095	1478	



Example: **WP-LED219-30-GH**

### ACCESSORIES

**Motion Sensor (120V)**

<b>MS-120-BZ</b>	Bronze
<b>MS-120-GY</b>	Gray
<b>MS-120-WT</b>	White

**Photo Sensor (120V)**

<b>PC-120-BZ</b>	Bronze
<b>PC-120-GY</b>	Gray
<b>PC-120-WT</b>	White

### WAC Lighting

www.waclighting.com  
Phone (800) 526.2588 • Fax (800) 526.2585

### Headquarters/Eastern Distribution Center

44 Harbor Park Drive • Port Washington, NY 11050  
Phone (516) 515.5000 • Fax (516) 515.5050

### Western Distribution Center

1750 Archibald Avenue • Ontario, CA 91760  
Phone (800) 526.2588 • Fax (800) 526.2585

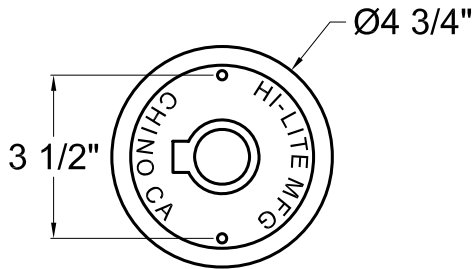
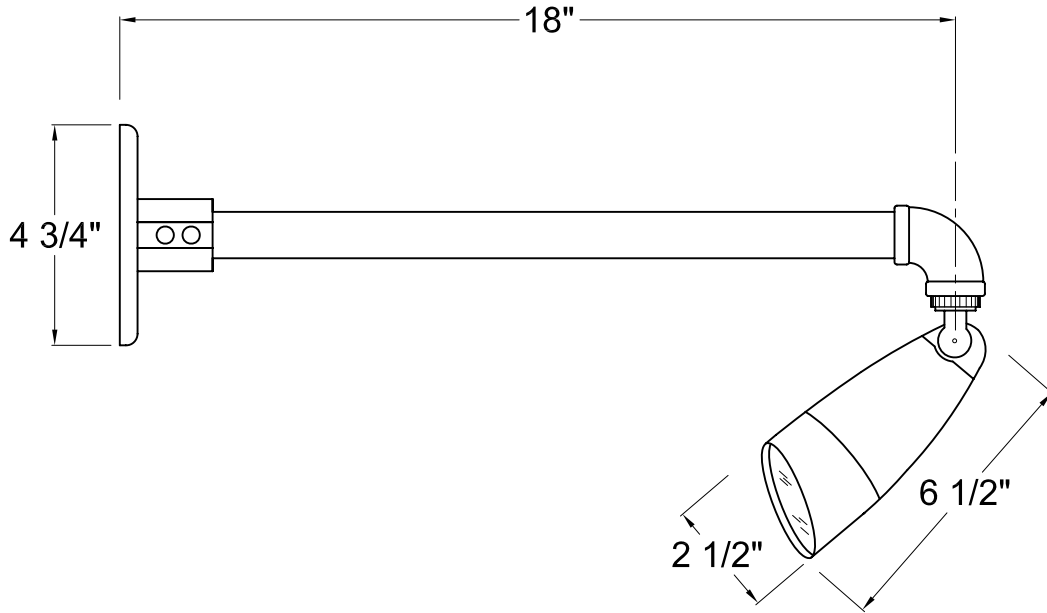




# HI-LITE MFG. CO., INC.

13450 Monte Vista Avenue  
 Chino, California 91710  
 Telephone: (909) 465-1999  
 Toll Free: (800) 465-0211  
 Fax: (909) 465-0907  
 www.hilitemfg.com

JOB NAME:		
SCALE: N.T.S.	DATE: 09/25/2014	TYPE: WSCXC-2
DRAWN BY: S.M.-D	QTY:	
SHEET:		REV:



CANOPY FRONT VIEW

Item Number	Wattage	Voltage
GU10-119/18-1-119	50W	120V

**Finish**  
119-Bronze

**Mounting**  
Wall Mount

**Lamp/Socket**  
GU10

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