



Convenience Architecture
and Design P.C.
351 Sheetz Way, Claysburg, PA 16625
phone (814) 239-6013
email tcolumbu@sheetz.com
web site www.sheetz.com

PROJECT NAME:
NEW SHEETZ STORE
BOONE

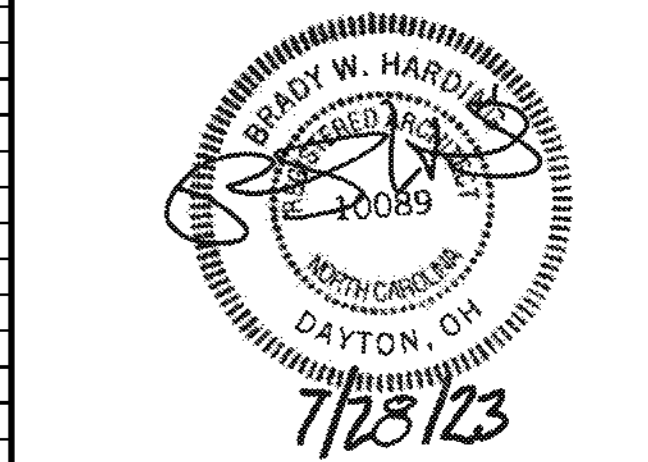
East King Street
and New Market Blvd.
Boone, NC 28607

OWNER:
SHEETZ, INC.

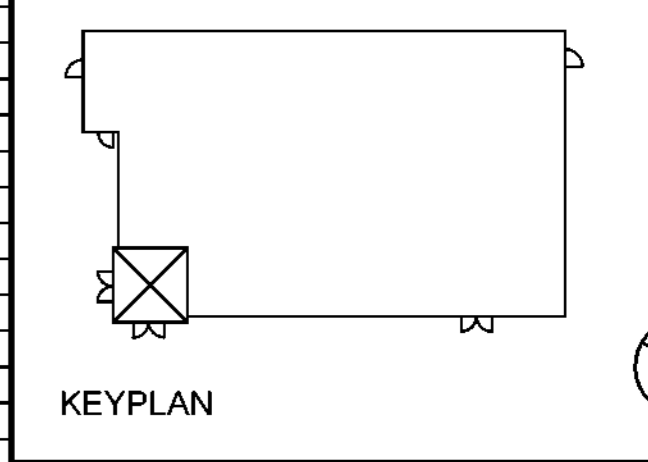
5700 SIXTH AVE.
ALTOONA, PA 16602



CONSULTANT



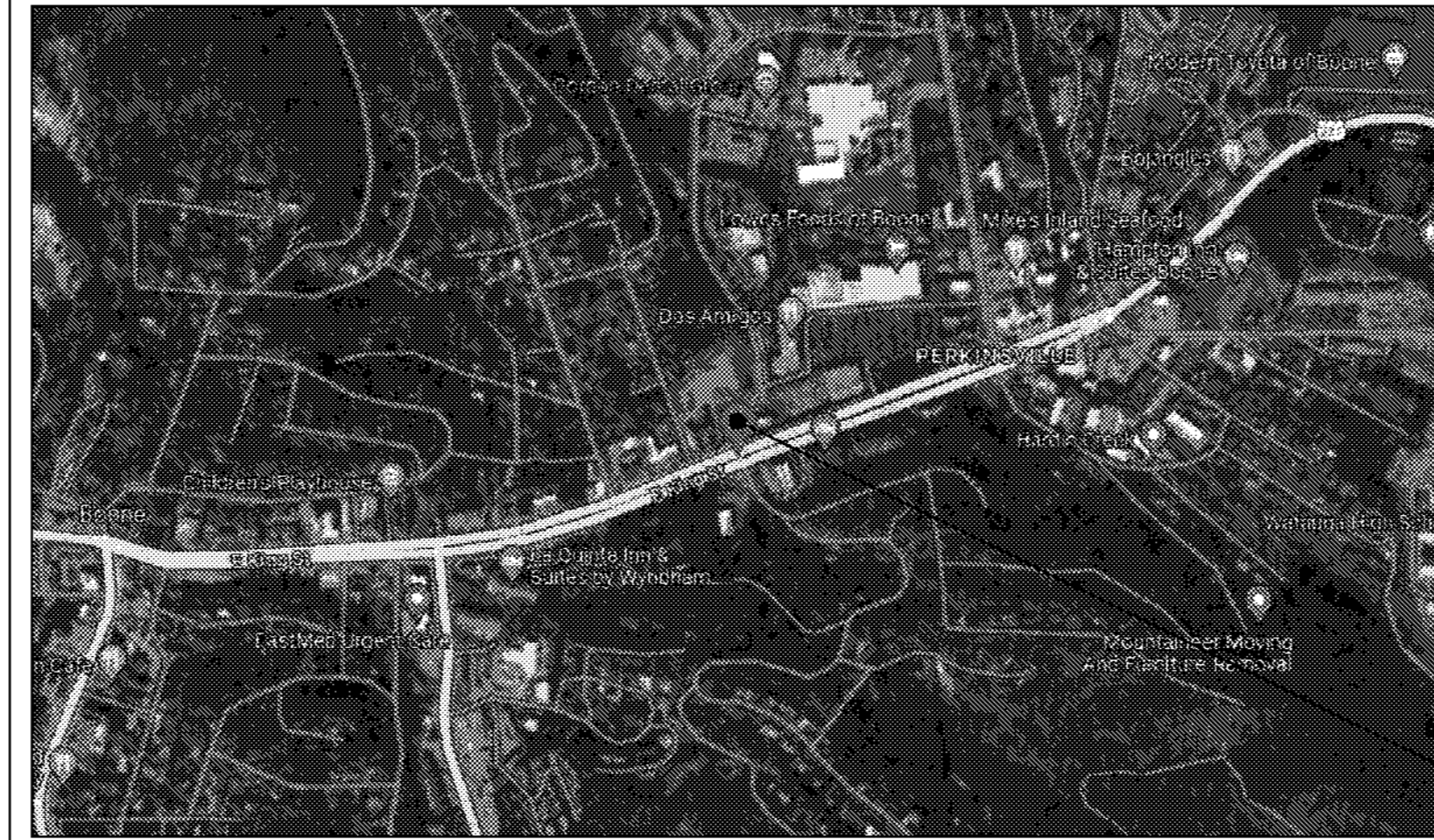
PROFESSIONAL



KEYPLAN

NEW SHEETZ STORE
BOONE
EAST KING STREET &
NEW MARKET BLVD.
BOONE, NC 28607

PROJECT LOCATION



STORE LOCATION

PROJECT CONTACTS

| | |
|--------------------------------------|--|
| ARCHITECTURAL | BRADY HARDING PROGRESS PARK TOWER 3601 RISKY ROAD, SUITE 300 MIAMISBURG, OH 45342 T: 937-240-4109 E: harding@cosolinc.com |
| STRUCTURAL | RANDAL S. DIVINEY, PE DIVINEY & ASSOCIATES STRUCTURAL ENGINEERS, LLC 310 PENN ST, SUITE 200 HOLLIDAYSBURG, PA 16648 T: 814-317-5037 E: rdvinye@dastructures.com |
| MECHANICAL ELECTRICAL PLUMBING | DAVE BACCI, PE H.F. LENZ ENGINEERING 1407 SCALP AVENUE JOHNSTOWN, PA 15904 T: 412-374-9101 E: dbacchi@hfcnz.com |

PROJECT DRAWING INDEX

| NUMBER | TITLE |
|------------------------|--|
| GENERAL | |
| G001 | COVER SHEET |
| G002 | ACCESSIBILITY DETAILS |
| G003 | APPENDIX B |
| STRUCTURAL | |
| S001 | STRUCTURAL NOTES |
| S002 | STRUCTURAL SCHEDULES AND SPECIAL INSPECTIONS |
| S101 | FOUNDATION PLAN |
| S102 | ROOF FRAMING PLAN |
| S301 | STRUCTURAL SECTIONS AND DETAILS |
| S501 | STRUCTURAL TYPICAL DETAILS |
| S602 | STRUCTURAL TYPICAL DETAILS |
| ARCHITECTURAL | |
| A001 | NOTES, SYMBOLS, & ABBREVIATIONS |
| A002 | PERFORMANCE SPECIFICATIONS |
| A003 | PERFORMANCE SPECIFICATIONS |
| A004 | PERFORMANCE SPECIFICATIONS |
| A005 | PERFORMANCE SPECIFICATIONS |
| A006 | PERFORMANCE SPECIFICATIONS |
| A100 | SIDEWALK PLAN |
| A110 | FRAMING PLAN |
| A111 | PARTITION TYPES |
| A112 | MISCELLANEOUS DETAILS |
| A120 | REFLECTED CEILING PLAN |
| A121 | CEILING DETAILS |
| A122 | SEISMIC CEILING DETAILS AND NOTES |
| A130 | ROOF PLAN |
| A131 | ROOF DETAILS |
| A140 | EQUIPMENT PLAN |
| A141 | EQUIPMENT ELEVATIONS |
| A200 | EXTERIOR ELEVATIONS |
| A201 | EXTERIOR ELEVATIONS |
| A202 | FEATURE PLAN |
| A300 | BUILDING SECTIONS |
| A310 | WALL SECTIONS |
| A311 | WALL SECTIONS |
| A312 | WALL SECTIONS |
| A400 | ENLARGED TOILET ROOM PLAN, ELEVATIONS AND DETAILS |
| A500 | DOOR, WINDOW & STOREFRONT SCHEDULES, ELEVATIONS & DETAILS |
| A700 | INTERIOR FINISH SCHEDULE |
| A710 | INTERIOR GRAPHICS PLAN |
| A711 | INTERIOR GRAPHICS SCHEDULE |
| A712 | INTERIOR FLOOR FINISHES PLAN & DETAILS |
| A720 | INTERIOR ELEVATIONS |
| A721 | INTERIOR ELEVATIONS |
| A722 | INTERIOR ELEVATIONS |
| A900 | MILLWORK, FURNITURE & FIXTURE PLAN |
| A901 | ENLARGED MILLWORK PLANS, ELEVATIONS & DETAILS |
| MECHANICAL | |
| M001 | MECHANICAL LEGEND, GENERAL NOTES, AND SCHEDULES |
| M111 | MECHANICAL PLAN |
| MEP130 | MEP ROOF PLAN |
| MEP501 | HOOD DETAILS |
| MEP502 | MECHANICAL, ELECTRICAL, PLUMBING DETAILS |
| MEP503 | MECHANICAL, ELECTRICAL, PLUMBING DETAILS |
| FIRE PROTECTION | |
| F001 | FIRE PROTECTION DETAILS |
| PLUMBING | |
| P001 | PLUMBING ABBREVIATIONS, GENERAL NOTES, AND EQUIPMENT SCHEDULES |
| P101D | IN SLAB PLUMBING PLAN |
| P101W | IN SLAB WATER PLAN |
| P102 | SANITARY ROUGH IN PLUMBING PLAN |
| P103 | DOMESTIC WATER ROUGH IN PLUMBING PLAN |
| P111 | ABOVE SLAB PLUMBING PLAN |
| P501 | PLUMBING DETAILS |
| P502 | PLUMBING WATER MANIFOLD AND CO2 DETAILS |
| P503 | FOOD SERVICE EQUIPMENT CONNECTION DETAILS |
| P701 | PLUMBING ABOVE SLAB AND BELOW SLAB WATER RISER DIAGRAMS |
| P702 | PLUMBING SANITARY, VENT, AND GAS RISER DIAGRAMS |
| P801 | IN SLAB VAPOR ABATEMENT PLUMBING PLAN |
| ELECTRICAL | |
| E001 | ELECTRICAL ABBREVIATIONS, GENERAL NOTES, AND SYMBOLS |
| E101 | UNDER GROUND ELECTRICAL CONDUIT PLAN |
| E111 | LIGHTING PLAN |
| E112 | REFLECTED CEILING PLAN, SECURITY & AUDIO LAYOUT WIRING DIAGRAM |
| E121 | ELECTRICAL EQUIPMENT PLAN |
| E122 | ELECTRICAL EQUIPMENT PLAN LOW VOLTAGE |
| E301 | KITCHEN AND WORKROOM ELEVATIONS |
| E302 | DETAILS AND ELEVATIONS |
| E401 | GENERAL NOTES, RISER DIAGRAM, & LOAD TABLE |
| E501 | UTILITY ROOM ELEVATIONS & FLOOR PLAN |
| E601 | ELECTRICAL EQUIPMENT SCHEDULE |
| E602 | ELECTRICAL PANEL SCHEDULES |
| E603 | ELECTRICAL PANEL SCHEDULES |
| E604 | ELECTRICAL PANEL SCHEDULES |

BUILDING DATA

BUILDING CODE ANALYSIS
SUMMARY OF PROJECT
This project is a 9,132 GSF Convenience Retail Store and Automotive Fuel Sales Facility located at the intersection of East King Street and New Market Blvd. in Boone, NC. This plan review summary analysis is limited to the building only and does not include the gasoline distribution system and/or the associated exterior gas canopy.
See sheet S001 for Structural Design Data, Seismic Information, Wind Loads, Special Inspection Requirements, etc.

APPLICABLE CODES
2018 North Carolina Administrative Code and Policies
2018 North Carolina Building Code
2018 North Carolina Mechanical Code
2018 North Carolina Plumbing Code
2018 North Carolina Fire Prevention Code
2017 National Electrical Code, NFPA 70
2018 North Carolina Fuel Gas Code
2018 North Carolina Energy Conservation Code
2017 ICC A117.1 Standard for Accessible and Usable Buildings and Facilities
2018 North Carolina Building Code: Chapter 11

DESIGN LOADS
Seismic Design Category - D
Seismic Risk Category - II
Basic Wind Velocity - 110 MPH

USE OR OCCUPANCY
309.1 Group M Occupancy
(A-2 occupancy changes to M occupancy per exception 2 under 309.1.2 of the Building Code)
Retail Store with Seating: Total interior seats: 30
Accessible seats required: 2
Accessible seats provided: 2
Total exterior seats: 18
Accessible seats required: 1
Accessible seats provided: 1

GENERAL BUILDING LIMITATIONS
Tables 504.3, 504.4 & 505.2
Type V-B Non-Sprinklered Construction
Groups M
Max stories 1 Provided 18' (Less roof structure)
Max height 40' 26'-0" w/ roof structure
Max floor area 9,000 sq. ft. Provided 6,192 sq. ft.

TYPE OF CONSTRUCTION
Table 601
Type V-B construction
Structural frame 0 hours
Bearing walls 0
Nonbearing walls 0
Floor construction 0
Roof construction 0

INTERIOR FINISHES
Table 603.11
Required flame spread rating - Groups M
Exit access corridors and other walkways: Class B 26-75 flame spread
Rooms and enclosed spaces: Class C 76-200 flame spread

MEANS OF EGRESS (Table 1004.5)

| Function of Space | Occupant Load Factor | Area / Factor | Load |
|--|----------------------|---------------|----------------------|
| Mercantile: | 60 SF / Occupant | 3,264 / 60 | = 55 |
| Assembly without Fixed Seats, Unconcentrated | 15 SF / Occupant | 450 / 15 | = 30 |
| Kitchen: | 200 SF / Occupant | 759 / 200 | = 4 |
| Business: | 150 SF / Occupant | 159 / 150 | = 2 |
| Accessory Storage Areas, Mechanical Equipment Room | 300 SF / Occupant | 495 / 300 | = 2 |
| Accessory Storage Areas, Refrigerated Storage | 300 SF / Occupant | 617 / 300 | = 3 |
| | | | Total Occupants = 96 |

EGRESS WIDTH PER OCCUPANT
Section 1005
Width factor is 0.2 for Groups M & B
Egress width required: 96 occupants x 0.2 = 19.2'
Required: (2) 36" Egress doors. Provided: (5) >36" egress doors.

FIRE PROTECTION
This building is not required to have a sprinkler system.

PLUMBING FIXTURE REQUIREMENTS

| TABLE 2802.1 | WATER CLOSET | | LAVATORY | | DRINKING FOUNTAIN | MOP SINK |
|--------------|--------------|----------|----------|---|-------------------|----------|
| | M | F | M | F | | |
| PROVIDED | 2 WC | 3 URINAL | 3 WC | 2 | 2 | 2 |
| REQUIRED | 1 | 1 | 1 | 1 | 1 | 1 |

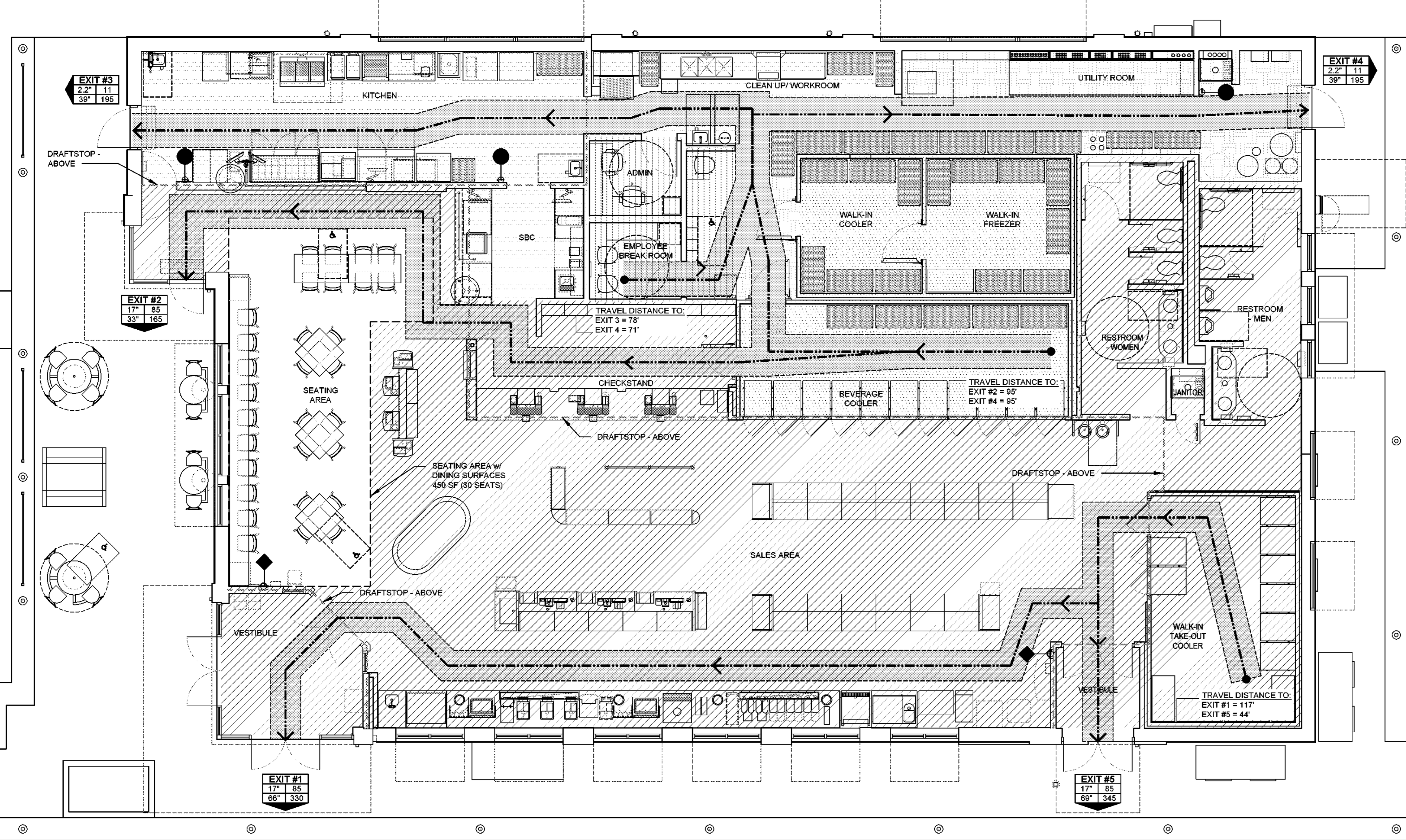
SYMBOL LEGEND

MEANS OF EGRESS CAPACITY

| Required Width | Provided Width | Exit Direction | Exit # | Exit Number | Occupant Load | Maximum Occupant Load |
|----------------|----------------|----------------|--------|-------------|---------------|-----------------------|
| 36" | 34" | → | 111 | 111 | 17 | 85 |
| 36" | 34" | → | 117 | 117 | 17 | 85 |
| 36" | 34" | → | 195 | 195 | 17 | 85 |
| 36" | 34" | → | 165 | 165 | 17 | 85 |

--- Draftstop
--- XX --- Exit Access Travel Distance

□ Egress Lighting Path Symbol
● Fire Extinguisher
◆ Fire Extinguisher Cabinet



LIFE SAFETY PLAN
3/16" = 1'-0"

ISSUE: **07.28.2023**
SITE ID NO: 214353
AUTHOR BY: DTR
REVIEW BY: AW, ELM
VERSION: 6132L_v1.4

COVER SHEET

G001

PERMIT REVIEW DRAWINGS

MARK DATE DESCRIPTION