

Ross Engineering, LLC
Civil / Structural Engineering

909 Islington Street
Portsmouth, NH 03801

603-433-7560
alexross@comcast.net

806 US Route 1 Bypass
Project Description

May 25, 2022

This site review application is for minor improvements to an existing fully developed site. The existing lot includes a retail building and an asphalt parking lot. A 400 SF walk-in cooler is proposed off the rear of the existing building. The entire 400 SF footprint is currently asphalt. Currently, there is a drainage line underneath the existing building. The line would be cut, and filled with concrete, with new catch basins and lines installed to direct the flow around the building rather than under it. No increase in impervious surface is proposed.

Improvements include:

- Re-routing and correcting odd drainage line configuration
- Create fenced in dumpster location
- Configure correct conforming parking on site
- Add landscaping so that open space will meet City regulations
- Square off rear of building for addition

We have met with the Technical Advisory Committee and have incorporated all of the items listed in the TAC May 2022 letter.

Sincerely,

Alex Ross, P.E.

Ross Engineering
Civil/Structural Engineering & Surveying

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May 25, 2022

Beverly Mesa-Zendt - Planning Director
City of Portsmouth, Planning Department
1 Junkins Ave
Portsmouth, NH 03801

RE: Site Plan Approval for property located at 806 US Route 1 Bypass, Tax Map 161, Lot 43 (LU-22-81)

Dear Ms. Beverly,

I am writing in response to your TAC letter dated May 9th, 2022. Your concerns are italicized with our comments below in bold.

1. *Dumpsters will be relocated to parking spaces 24 and 23 with a 20 foot setback from rear lot line and at least 10 feet from side lot line. Applicant will request a waiver from the Planning Board for Section 9.3 of the Site Plan regulations to have the dumpsters located within 20' of the side lot line.*

The dumpsters have been relocated and we have included a request for a waiver.

2. *A note will be added to the plans regarding the use of non-combustible mulch.*

Note 9 has been added to the landscape plan.

3. *Applicant will work with DPW to correct the sewer lateral connection and location.*

We have been in contact with DPW and have revised the sewer.

4. *Applicant will work with DPW staff (Eric Eby) to reconfigure handicap parking and accessibility (two spaces needed).*

The handicap parking has been revised so that spaces 13 and 14 will serve as handicap spaces. This has been reviewed and accepted by Eric Eby.

5. *Applicant will extend landscaping and curbing at the front lot line.*

The landscaping and curbing have been extended to the front lot line.

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6. *Parking spaces 18 and 19 will be relocated and be replaced with landscaping and 3 bike racks.*

Spaces 18 and 19 have been relocated, and landscaping with 3 bike racks have been added.

7. *Entryway will be striped.*

The front entryway has been striped.

8. *Raised sidewalk will be extended to connect to front entryway.*

The raised sidewalk has been extended.

9. *Light Pole 3 (LP3) located at the rear of the building shall be limited to a height of 16' with cur off shields.*

Note 3 has been added to the utility plan.

10. *Lighting on the rear wall will not exceed a height of 9'.*

Note 3 has been added to the utility plan.

11. *Curbing is added to proposed landscape islands.*

Curbing has been added to the landscape inlands.

Sincerely,

Alex Ross, P.E.

Site Plan Review

806 Route 1 Bypass

Portsmouth, New Hampshire

PREPARED FOR:

RIGZ ENTERPRISES LLC

PREPARED BY:

ROSS ENGINEERING, LLC

Civil/Structural Engineering
& Surveying

909 Islington St.
Portsmouth, NH 03801
(603) 433-7560

LIST OF PROJECT PLANS:

SITE PLAN SET

- 1 - Existing Conditions Plan
- 2 - Site Plan
- 3 - Utility Plan
- 4 - Landscape Plan
- 5 - Notes & Details
- 6 - Sewer Notes

STRUCTURAL PLAN SET

- 1 - Existing Elevations
- 2 - Proposed Elevations
- 3 - Existing Floor Plan
- 4 - Proposed Floor Plan
- 5 - Foundation Plan
- 6 - Roof Framing Plan & Section
- 7 - Notes

May 25, 2022

SEE NOTE 2

N/F
CITY OF PORTSMOUTH
NEW FRANKLIN SCHOOL
1 FRANKLIN DRIVE
PORTSMOUTH, NH 03802
TAX MAP 220, LOT 2

RIGZ ENTERPRISES LLC
TAX MAP 161, LOT 43
RCRD 6225-2527
22,611 SQFT, 0.52 ACRES

N/F
GTY MA/NH LEASING INC
786 US ROUTE 1 BYP.
PORTSMOUTH, NH 03801
TAX MAP 161, LOT 42
RCRD 5207-1572

N/F
RICHARD J SOLITO
2 STARK ST
PORTSMOUTH, NH 03801
TAX MAP 161, LOT 41
RCRD 5455-1870

N/F
BETHANY ALICE KUCHARIK
507 DENNETT ST
PORTSMOUTH, NH 03801
TAX MAP 161, LOT 44
RCRD 5740-2377

N/F
LINDSAY FLORYAN
493 DENNETT ST
PORTSMOUTH, NH 03801
TAX MAP 161, LOT 45
RCRD 5804-2599

N/F RICHARD D ZOFFOLI TRUST
822 US ROUTE 1 BYP.
PORTSMOUTH, NH 03801
TAX MAP 160, LOT 29
RCRD 2860-0906

LEGEND

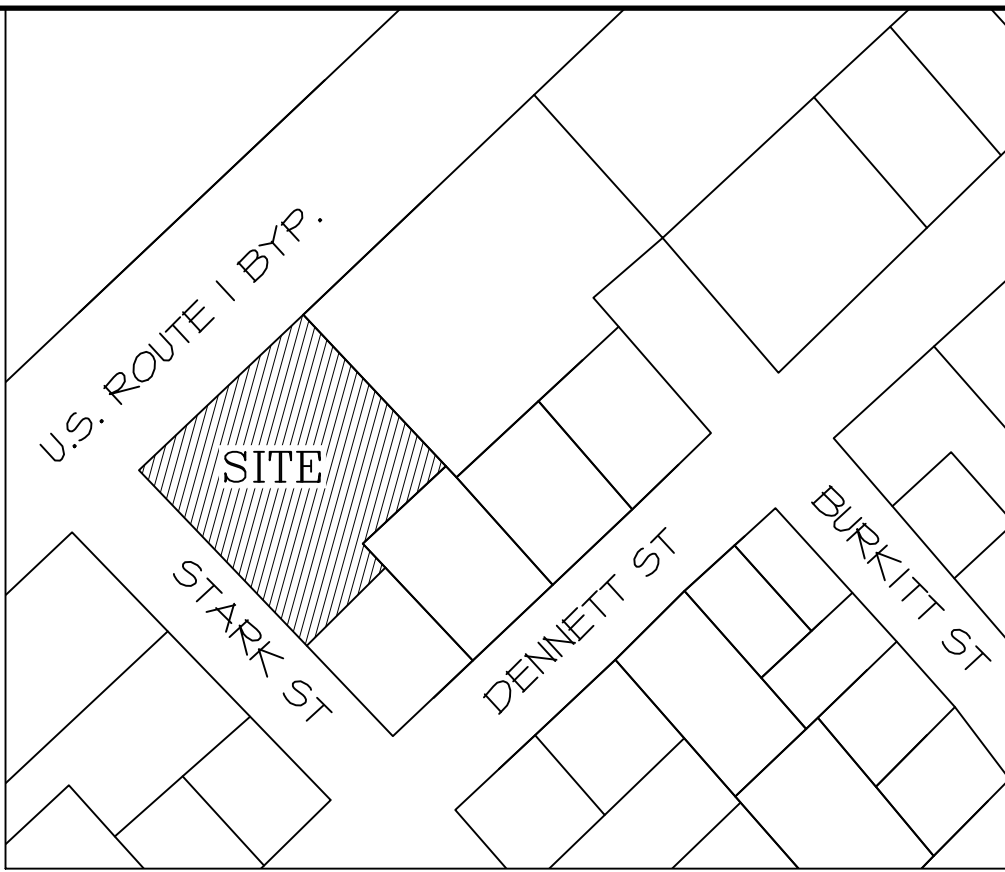
- MONUMENT FOUND
- 6' STOCKADE FENCE
- ASPHALT CURB
- 6' CHAIN LINK FENCE
- UTILITY POLE
- CATCH BASIN
- WATER VALVE

EXISTING STRUCTURES CATCH BASIN

- CB 1
RIM EL. 27.49
INV. IN 21.86 (20" PIPE) SW
INV. OUT 20.91 (20" PIPE) NE
- CB 2
RIM EL. 29.46
INV. OUT 25.81 (12" CMP)
- CB 3
RIM EL. 29.27
INV. IN 23.83 (12" CMP) SW
INV. IN 22.72 (12" CMP) NE
INV. IN 22.68 (20" RCP) NW
INV. OUT 22.62 (20" RCP) SE
- CB 4
RIM EL. 30.48
INV. IN 18.20 (20" RCP) SW
INV. IN 18.20 (20" RCP) NW
INV. OUT 18.15 (20" RCP) NE

REFERENCE PLANS

- 1) "SITE PLAN FOR HENRY S. DUTKOWSKI
MOMMA D'S CASA DI PASTA, 806 US
ROUTE 1 BYPASS & STARK STREET" BY
MILLETTE, SPRAGUE & COLWELL, INC.
DATED JULY 15, 2004.

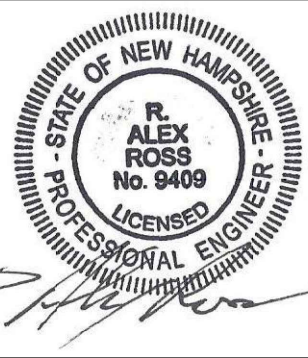
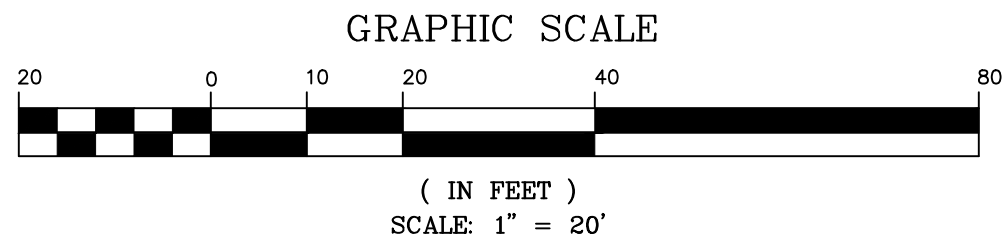


LOCUS PLAN N.T.S.

NOTES

- 1) OWNER OF RECORD:
RIGZ ENTERPRISES
18 DIXON LANE
DERRY, NH 03038
- TAX MAP 161, LOT 43
806 US ROUTE 1 BYPASS
PORTSMOUTH, NH 03801
RCRD: 6225-2527
AREA: 22,611 SF, 0.52 ACRES
- 2) BASIS OF BEARING HELD FROM PLAN REFERENCE #1.
- 3) PARCEL IS IN BUSINESS ZONE (B):
MINIMUM LOT AREA.....20,000 SF
MIN. LOT AREA PER DWELLING UNIT.....2,500 SF
MINIMUM FRONTAGE.....100 FT
MINIMUM DEPTH.....80 FT
SETBACKS:
FRONT.....20 FT
SIDE.....15 FT
REAR.....15 FT
MAXIMUM BUILDING HEIGHT.....50 FT
MAXIMUM BUILDING COVERAGE.....35%
MINIMUM OPEN SPACE.....15%
- 4) THE PARCEL IS NOT WITHIN A FEMA FLOOD ZONE,
AS PER FLOOD INSURANCE RATE MAP
#33015C0259F, PANEL 259 OF 681, DATED
JANUARY 29, 2021. VERTICAL DATUM IS NAVD 1988.
- 5) A RIGHT TO PASS AND REPASS FROM THE
INTERSTATE HIGHWAY USING THE EXITS IN COMMON
WITH OTHERS LOCATED ON LAND FORMERLY OF D.
RICHARD ZOFFOLI FOR PURPOSES OF PASSING
AND REPASSING TO THE INTERSTATE HIGHWAY
EXISTS TO THE BENEFIT OF LOT 43 OVER LAND OF
LOT 29. SEE RCRD 2781-1490.

| | | | |
|---|-----------|----------------------|--|
| 4 | 5/25/2022 | FOR PB | |
| 3 | 4/26/2022 | FOR TAC | |
| 2 | 4/19/2022 | FOR TAC | |
| 1 | 4/5/2022 | FOR TAC | |
| ISS. | DATE | DESCRIPTION OF ISSUE | |
| SCALE 1" = 20' | | | |
| CHECKED A.ROSS | | | |
| DRAWN I.C.A. | | | |
| CHECKED | | | |
| ROSS ENGINEERING, LLC Civil/Structural Engineering & Surveying 909 Islington St. Portsmouth, NH 03801 (603) 433-7560 | | | |
| CLIENT RIGZ ENTERPRISES LLC 18 DIXON LANE DERRY, NH 03038 | | | |
| TITLE EXISTING CONDITIONS PLAN 806 US-1 BYP. PORTSMOUTH, NH 03801 TAX MAP 161, LOT 43 | | | |
| JOB NUMBER | DWG. NO. | ISSUE | |
| 21-072 | 1 OF 6 | 4 | |





N/F
CITY OF PORTSMOUTH
NEW FRANKLIN SCHOOL
1 FRANKLIN DRIVE
PORTSMOUTH, NH 03802
TAX MAP 220, LOT 2

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786 US ROUTE 1 BYP.
PORTSMOUTH, NH 03801
TAX MAP 161, LOT 42
RCRD 5207-1572

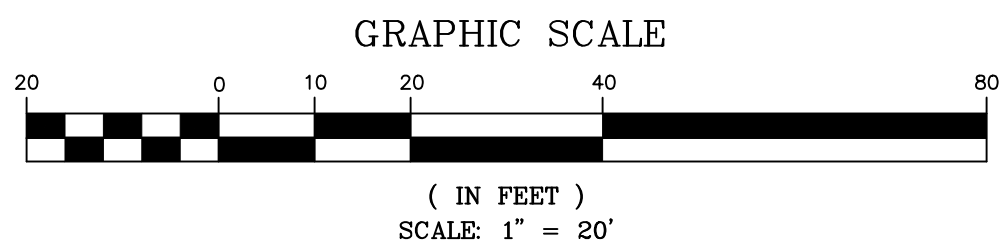
N/F PORTSMOUTH REALTY LLC
822 US ROUTE 1 BYP.
PORTSMOUTH, NH 03801
TAX MAP 160, LOT 29
RCRD 6355-2022

N/F LINDSAY FLORYAN &
BRIAN COLLIER
493 DENNETT ST
PORTSMOUTH, NH 03801
TAX MAP 161, LOT 45
RCRD 5804-2599

N/F ALICE B. KUCHARIK &
NICHOLAS WEBSTER
507 DENNETT ST
PORTSMOUTH, NH 03801
TAX MAP 161, LOT 44
RCRD 5790-2377

N/F MYRINDA A. SOLITO
2 STARK ST
PORTSMOUTH, NH 03801
TAX MAP 161, LOT 41
RCRD 6377-0132

ALL CONDITIONS ON THIS PLAN
SHALL REMAIN IN EFFECT IN
PERPETUITY PURSUANT TO THE
REQUIREMENTS OF THE SITE PLAN
REVIEW REGULATIONS.



NOTES

1) OWNER OF RECORD:
RIGZ ENTERPRISES
18 DIXON LANE
DERRY, NH 03038

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RCRD: 6225-2527
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2) PARCEL IS IN BUSINESS ZONE (B):
MINIMUM LOT AREA.....20,000 SF
MIN. LOT AREA PER DWELLING UNIT.....2,500 SF
MINIMUM FRONTAGE.....100 FT
MINIMUM DEPTH.....80 FT
SETBACKS:
FRONT.....20 FT
SIDE.....15 FT
REAR.....15 FT
MAXIMUM BUILDING HEIGHT.....50 FT
MAXIMUM BUILDING COVERAGE.....35%
MINIMUM OPEN SPACE.....15%

3) COVERAGES:
BUILDING COVERAGE
EXISTING BUILDING COVERAGE
BUILDING & COOLER.....3,042 SF
EXISTING STRUCTURE.....3,042 SF
BUILDING COVERAGE= 3,042 / 22,611 = 13.5%

PROPOSED BUILDING COVERAGE
BUILDING & COOLER.....3,442 SF
BUILDING COVERAGE 3,442 / 22,611 = 15.2%

OPEN SPACE
EXISTING OPEN SPACE
BUILDING COVERAGE.....3,042 SF
CONCRETE SIDEWALK.....455 SF
ASPHALT PARKING.....15,958 SF
ASPHALT CURB.....83 SF
CONCRETE PAD.....3 SF
TOTAL LOT COVERAGE.....19,541 SF
EXISTING OPEN SPACE= 22,611-19,541 = 3,070 SF
EXISTING OPEN SPACE= 3,070 / 22,611 = 13.6%

PROPOSED OPEN SPACE
BUILDING COVERAGE.....3,442 SF
CONCRETE SIDEWALK.....457 SF
ASPHALT PARKING.....14,500 SF
ASPHALT CURB.....171 SF
TOTAL LOT COVERAGE.....18,570 SF
PROPOSED OPEN SPACE=22,611-18,570= 4,041 SF
PROPOSED OPEN SPACE = 4,041 / 22,611 = 17.9%

4) PARKING SPACES:
AS PER PORTSMOUTH ZONING ORDINANCE
10.112.321, PARKING SPACES FOR RETAIL USE
SHALL BE 1 SPACE PER 300 SF GROSS FLOOR
AREA.

3,442 SF / 300 SF/SPACE = 11.47 = 12 SPACES
12 SPACES REQUIRED
30 SPACES PROVIDED

5) THIS SITE PLAN SHALL BE RECORDED IN THE
ROCKINGHAM COUNTY REGISTRY OF DEEDS.

6) ALL IMPROVEMENTS SHOWN ON THIS SITE PLAN
SHALL BE CONSTRUCTED AND MAINTAINED IN
ACCORDANCE WITH THE PLAN BY THE PROPERTY
OWNER AND ALL FUTURE PROPERTY OWNERS. NO
CHANGES SHALL BE MADE TO THIS SITE PLAN
WITHOUT THE EXPRESS APPROVAL OF THE
PORTSMOUTH PLANNING DIRECTOR.

7) ALL PROPOSED CURBING TO BE ASPHALT AND
MATCH EXISTING. MINIMUM 5" REVEAL.

8) PLAN TO INCORPORATE GIS DATA IN REFERENCE
TO THE NEW HAMPSHIRE STATE PLAN
COORDINATE SYSTEM.

LEGEND

- MONUMENT FOUND
- 6' STOCKADE FENCE
- ASPHALT CURB
- 6' CHAIN LINK FENCE
- UTILITY POLE
- CATCH BASIN
- WATER VALVE
- SEWER MANHOLE
- LAMP POST
- UNDERGROUND UTILITIES
- GAS LINE
- DRAIN LINE
- WATER LINE
- SEWER LINE
- LIGHT

WAIVERS

- 1) A WAIVER IS REQUESTED FROM THE CITY
OF PORTSMOUTH SITE PLAN REVIEW
REGULATIONS SECTION 7.4, TO NOT
PROVIDE A STORMWATER MANAGEMENT
PLAN AS THE IMPERVIOUS COVER IS
PROPOSED TO BE REDUCED.
- 2) A WAIVER IS REQUESTED FROM THE CITY
OF PORTSMOUTH SITE PLAN REVIEW
REGULATIONS SECTION 9.3.5 TO LOCATE
A DUMPSTER 12.2' FROM THE WESTERN
PROPERTY LINE WHERE 20' IS
REQUIRED.

| | | | |
|--|-----------|----------------------|--|
| 4 | 5/25/2022 | FOR PB | |
| 3 | 4/26/2022 | FOR TAC | |
| 2 | 4/19/2022 | FOR TAC | |
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| ISS. | DATE | DESCRIPTION OF ISSUE | |
| SCALE | 1" = 20' | | |
| CHECKED | A.ROSS | | |
| DRAWN | D.D.D. | | |
| CHECKED | | | |
| ROSS ENGINEERING, LLC | | | |
| Civil/Structural Engineering & Surveying 909 Islington St. Portsmouth, NH 03801 (603) 433-7560 | | | |
| CLIENT RIGZ ENTERPRISES LLC 18 DIXON LANE DERRY, NH 03038 | | | |
| TITLE | | | |
| SITE PLAN | | | |
| 806 US-1 BYP. PORTSMOUTH, NH 03801 TAX MAP 161, LOT 43 | | | |
| JOB NUMBER | DWG. NO. | ISSUE | |
| 21-072 | 2 OF 6 | 4 | |

CITY OF PORTSMOUTH PLANNING BOARD

CHAIRPERSON

DATE





N/F
CITY OF PORTSMOUTH
NEW FRANKLIN SCHOOL
1 FRANKLIN DRIVE
PORTSMOUTH, NH 03802
TAX MAP 220, LOT 2

RIGZ ENTERPRISES LLC
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RCRD 5207-1572

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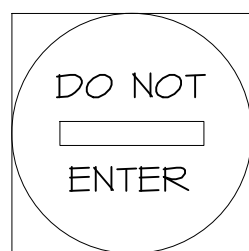
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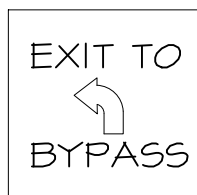
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TAX MAP 161, LOT 41
RCRD 6377-0132

LEGEND

- MONUMENT FOUND
- 6' STOCKADE FENCE
- ASPHALT CURB
- 6' CHAIN LINK FENCE
- UTILITY POLE
- CATCH BASIN
- WATER VALVE
- SEWER MANHOLE
- LAMP POST
- UNDERGROUND UTILITIES
- GAS LINE
- DRAIN LINE
- WATER LINE
- SEWER LINE
- LIGHT



R5-1
30"x30"
RED & WHITE



CUSTOM
20"x20"
BLACK & WHITE

SIGN DETAILS

SCALE: NTS

GENERAL NOTES

- CONTRACTOR TO REVIEW ALL SURFACING TYPES, AND MATERIAL SPECIFICATIONS WITH COMMISSIONER OF PUBLIC WORKS.
- ALL NECESSARY NHDOT, NHDES & TOWN PERMITS MUST BE OBTAINED.
- ALL CONSTRUCTION SHALL BE PER NH-DOT, STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION. LATEST REVISION.
- CONTRACTOR SHALL MEET STATE AND TOWN REQUIREMENTS, TO ASSURE TYPE, SEPARATION, COVER, ETC. ALWAYS CALL DIGSAFE PRIOR TO DIGGING. UTILITIES SHOWN ARE APPROXIMATE AND MUST BE VERIFIED.
- SIZE ALL LINES AS PER REQUIREMENTS AND ASSURE THAT PROPOSED LOADING AND PRESSURE DEMANDS WILL BE MET.

UTILITIES:

CONTACT LIST:

GAS: UNIL: SUSAN L. DUPLISEA.....603-294-5147
WATER: PORTSMOUTH DPW:603-427-1530
SEWER: PORTSMOUTH DPW:603-427-1530
STORMWATER: PORTSMOUTH DPW:603-427-1530
ELECTRIC: EVERSOURCE: CASEY MCDONALD.....603-436-7708 EXT 5641

PROPOSED UTILITIES:

- STORMWATER:
EXISTING DRAINAGE LINE UNDER THE BUILDING TO BE TAKEN OUT OF SERVICE AND FILLED WITH CONCRETE.

SILTSACKS TO BE INSTALLED ON CATCH BASIN 1 & 4 PRIOR TO CONSTRUCTION.
SILTSACKS TO REMAIN IN PLACE UNTIL DRAINAGE SYSTEM IS FULLY OPERATIONAL.

3 NEW CATCH BASINS TO BE INSTALLED CONNECTED EXISTING CBI TO EXISTING CB4.
SILTSACKS TO BE INSTALLED ON ALL 3 PROPOSED CATCH BASINS DURING CONSTRUCTION UNTIL DRAINAGE SYSTEM IS FULLY OPERATIONAL.

ALL PROPOSED DRAINAGE LINE SIZES TO MATCH EXISTING DRAINAGE LINE SIZES.
EXISTING DRAINAGE LINE SIZE IS ±20".
- GAS:
A NEW METER WILL BE INSTALLED ON THE SIDE OF THE WALK-IN COOLER. THE EXISTING GAS LINE WILL BE RE-ROUTED TO THE NEW METER.
- LIGHTING:
LP3 WILL BE LIMITED TO A HEIGHT OF 16' WITH CUT-OFF SHIELDS.
LP4 WILL NOT EXCEED A HEIGHT OF 9'.
- SEWER:
ACCORDING TO DPW, THE EXISTING SEWER LINE TRAVELS TOWARDS DENNETT STREET. A NEW SEWER LINE SHALL BE INSTALLED TO THE LATERAL BY PARKING SPACE 25. PROPER SIZE, TYPE, AND CONNECTION AS PER CITY DPW.

EXISTING STRUCTURES

CATCH BASIN

CB 1
RIM EL. 27.49
INV. IN 21.86 (±20" PIPE) SW
INV. OUT 20.91 (±20" PIPE) NE

CB 2
RIM EL. 29.46
INV. OUT 25.81 (12" CMP)

CB 3
RIM EL. 29.27
INV. IN 23.83 (12" CMP) SW
INV. IN 22.72 (12" CMP) NE
INV. IN 22.68 (±20") NW
INV. OUT 22.62 (±20") SE

CB 4
RIM EL. 30.48
INV. IN 18.20 (±20") SW
INV. IN 18.20 (±20") NW
INV. OUT 18.15 (±20") NE

PROPOSED STRUCTURES

CATCH BASIN

CB A
RIM EL.
INV. IN 20.82
INV. OUT 20.75
STRUCTURE: CONCRETE BASIN - DIAMETER TO MATCH
CB 1 (MIN 4' Ø)

CB B
RIM EL.
INV. IN 19.72
INV. OUT 19.60
STRUCTURE: CONCRETE BASIN - DIAMETER TO
MATCH CB 1 (MIN 4' Ø)

CB C
RIM EL.
INV. IN 19.15
INV. OUT 18.91
STRUCTURE: CONCRETE BASIN - DIAMETER TO
MATCH CB 1 (MIN 4' Ø)

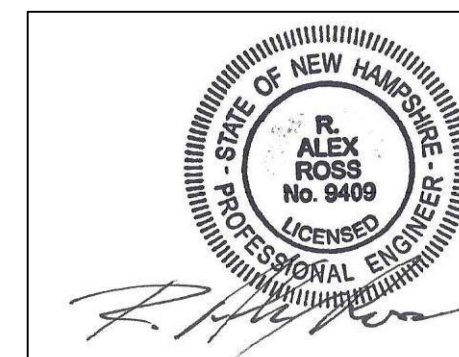
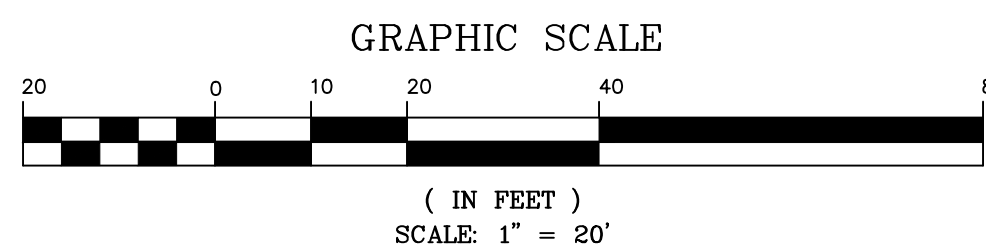
THE EXISTING LINE EXITING CB 1 APPEARS TO BE AN ODD SIZE & MATERIAL. SITE CONTRACTOR INSPECTED THE PIPE & DETERMINED IT WAS A 20" CAST IRON PIPE. NEW HDPE MAY NOT BE AVAILABLE IN 20" DIAMETER. INSTALL NEXT LARGER SIZE

EXISTING LIGHT POLE HEIGHTS

LP 1 - 19.6'
LP 2 - 28.41'
LP 3 - 27.9'

PROPOSED LIGHTING

| DESCRIPTION | CATALOG NUMBER | QUANTITY |
|----------------------|-----------------------------|----------|
| WALL LIGHT (LP4) | KT-WPLED60-M2-8XX-VDIM | 3 |
| LIGHT POLE (LP1-LP3) | KT-ALED140-M1-X-NM-8XX-VDIM | 3 |



| | | | |
|---------|-----------|----------------------|--|
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| CHECKED | A.ROSS | | |
| DRAWN | D.D.D. | | |
| CHECKED | | | |

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& Surveying
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CLIENT
RIGZ ENTERPRISES LLC
18 DIXON LANE
DERRY, NH 03038

| | | |
|--|----------|-------|
| TITLE | | |
| UTILITY PLAN | | |
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RCRD 6225-2527
22,611 SQFT, 0.52 ACRES

THUJA O. 'TECHNY',
MISSION ARBORVITAE
AT 5' TO 6' (TYP.)

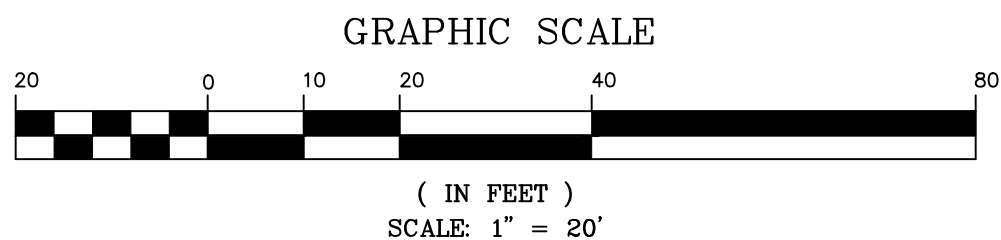
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SMOUTH, NH 03801
MAP 161, LOT 42
RD 5207-1512

ALL CONDITIONS ON THIS PLAN
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PERPETUITY PURSUANT TO THE
REQUIREMENTS OF THE SITE PLAN
REVIEW REGULATIONS.

N/F MYRINDA A. SOLITO
2 STARK ST
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TAX MAP 161, LOT 41
RCRD 6371-0132

N/F ALICE B. KUCHARIK &
NICHOLAS WEBSTER
507 DENNETT ST
PORTSMOUTH, NH 03801
TAX MAP 161, LOT 44
RCRD 5740-2377

| BOTANICAL NAME | COMMON NAME | SIZE | QTY: |
|--|-----------------------------------|--------|------|
| SEDUM 'AUTUMN JOY' | STONECROP | 1 QT | 11 |
| HEMEROCALLIS 'ROSY RETURNS' | REBLOOMING DAYLILY | 1 QT | 31 |
| ARCTOSTAPHYLOS UVA-URSI 'BEARBERRY' | BEAR BERRY | 1 GAL | 4 |
| CALAMAGROSTIS ACUTIFLORA 'KARL FOERSTER' | FEATHER REED GRASS | 1 GAL | 6 |
| ROSA RUGOSA | SALT SPRAY ROSE | 1 GAL | 6 |
| SYRINGA MEYERI 'PALIBIN' | DWARF KOREAN LILAC | 2 GAL | 6 |
| JUNIPERUS HORIZONTALIS 'BAR HARBOR' | 'BAR HARBOR' GROUND-COVER JUNIPER | 1 GAL | 19 |
| GLEDITSIA T.I. 'STREET KEEPER' | 'STREET KEEPER' HONEY LOCUST TREE | 2-3" C | 3 |



LEGEND

- ⊕ SEDUM 'AUTUMN JOY'
- ⊙ HEMEROCALLIS
- ARCTOSTAPHYLOS UVA-URSI
- ☼ CALAMAGROSTIS
- ⊗ ROSA RUGOSA
- ⊗ SYRINGA MEYERI 'PALIBIN'
- ⊗ JUNIPERUS HORIZONTALIS
- ⊗ GLEDITSIA

Planting Detail

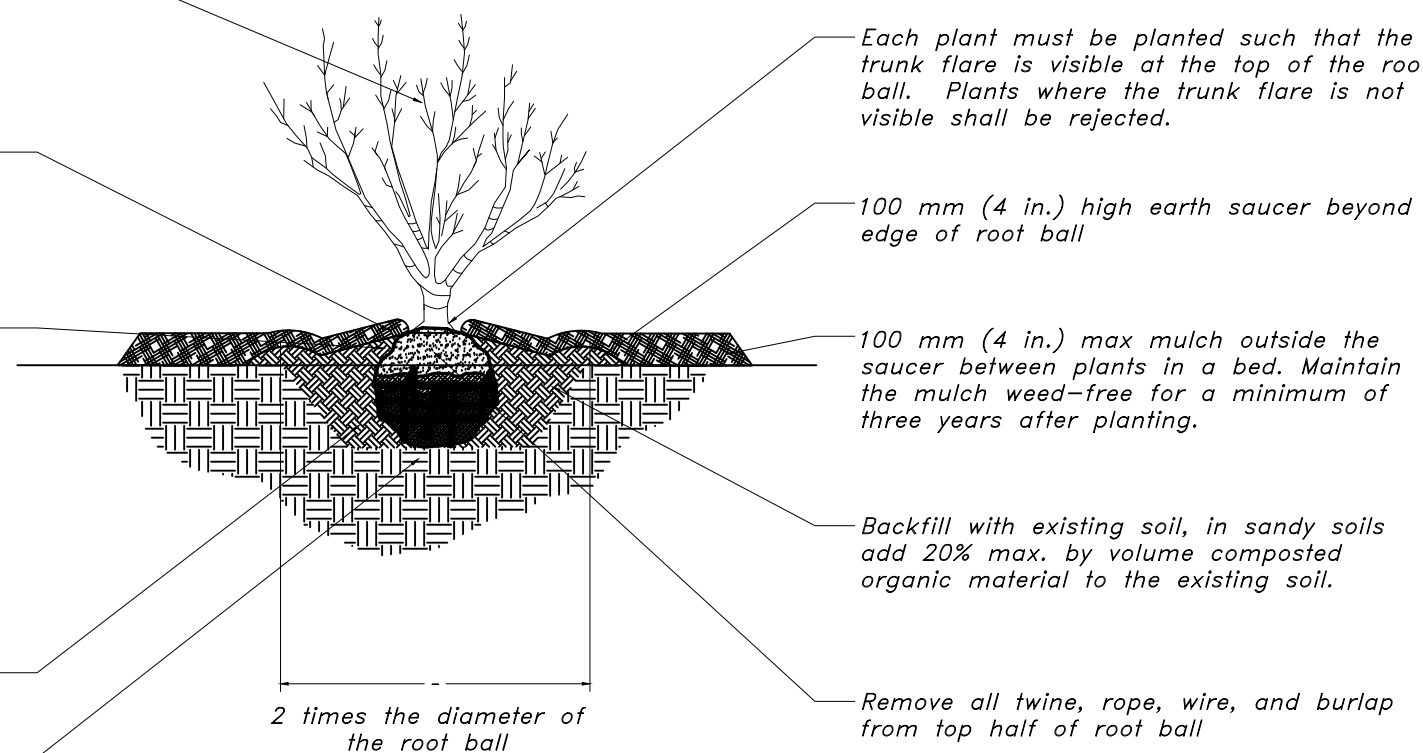
Set plant to display best face
towards the primary view
whenever possible.

50 MM (2 IN.) max. mulch over
the ball of the plant. Maintain
the mulch weed-free for a
minimum of three years after
planting.

Set top of root ball 3-4" above
surrounding grade and feather
planting soil towards the crown
of the plant.

Tamp soil around root ball base
firmly with foot pressure so that
root ball does not shift.

Place root ball on unexcavated
or tamped soil.



PLANTING NOTES

- ALL PLANT MATERIALS SHALL BE FIRST QUALITY NURSERY GROWN STOCK.
- ALL PLANTS SHALL BE PLANTED IN ACCORDANCE WITH NEW HAMPSHIRE LANDSCAPE ASSOCIATION STANDARDS AND GUARANTEED FOR ONE YEAR BY THE LANDSCAPE CONTRACTOR.
- AFTER PLANTING, ALL PLANTS SHALL BE FLOODED AT THE BASE WITH WATER FROM A SLOW-RUNNING HOSE FOR 5 MINUTES EACH.
- ALL PLANTS SHALL BE INSTALLED BEFORE ANY GRASS IS SEEDDED.
- ALL SHRUBS AND PLANTING BEDS SHALL BE MULCHED WITH 3" OF DARK BROWN AGED BARK MULCH AS A FINAL STEP. MULCH MUST BE KEPT 2" AWAY FROM BASE OF EACH PLANT.
- THE PROPERTY OWNER AND ALL FUTURE PROPERTY OWNERS SHALL BE RESPONSIBLE FOR THE MAINTENANCE, REPAIR, AND REPLACEMENT OF ALL REQUIRED SCREENING AND LANDSCAPE MATERIALS.
- ALL REQUIRED PLANT MATERIALS SHALL BE TENDED AND MAINTAINED IN A HEALTHY GROWING CONDITION, REPLACED WHEN NECESSARY, AND KEPT FREE OF REFUSE AND DEBRIS. ALL REQUIRED FENCES AND WALLS SHALL BE MAINTAINED IN GOOD REPAIR.
- THE PROPERTY OWNER SHALL BE RESPONSIBLE TO REMOVE AND REPLACE DEAD OR DISEASED PLANT MATERIALS IMMEDIATELY WITH THE SAME TYPE, SIZE, AND QUANTITY OF PLANT MATERIALS AS ORIGINALLY INSTALLED, UNLESS ALTERNATIVE PLANTINGS ARE REQUESTED, JUSTIFIED, AND APPROVED BY THE PLANNING BOARD OR PLANNING DIRECTOR.
- MULCH USED WILL BE NON-COMBUSTIBLE OR APPROVED BY THE PORTSMOUTH FIRE DEPARTMENT.

NOTES

- THIS SITE PLAN SHALL BE RECORDED IN THE ROCKINGHAM COUNTY REGISTRY OF DEEDS.
- ALL IMPROVEMENTS SHOWN ON THIS SITE PLAN SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE PLAN BY THE PROPERTY OWNER AND ALL FUTURE PROPERTY OWNERS. NO CHANGES SHALL BE MADE TO THIS SITE PLAN WITHOUT THE EXPRESS APPROVAL OF THE PORTSMOUTH PLANNING DIRECTOR.

INSTALLATION REQUIREMENTS:

- THE INSTALLATION OF A DRIP IRRIGATION SYSTEM IS RECOMMENDED TO ASSURE WELL GROWN PLANTS.
- IN CASE OF DROUGHT (DEFINED AS TWO WEEK PERIOD WITHOUT RAIN) ALL NEW PLANTS SHALL BE WATERED THROUGH NOVEMBER 1ST DURING THE FIRST SEASON IN WHICH THEY ARE INSTALLED. THEY SHALL BE WATERED ONE TIME PER DAY FOR THE FIRST WEEK AFTER INSTALLATION AND THREE TIMES PER WEEK FOR THE REMAINDER OF THE SEASON. AFTER THE FIRST SEASON WHEN THE ROOTS OF THE PLANTS ARE ESTABLISHED THEY WILL NOT REQUIRE WATERING.
- SOAKER HOSES WOUND THROUGH THE BED NEAR THE BASE OF EACH PLANT ARE THE RECOMMENDED METHOD OF WATERING DURING THE FIRST SEASON. THESE CA BE REMOVED AFTER NOVEMBER 30TH WHEN THE PLANTS ARE ESTABLISHED.

LEGEND

- ⊙ MONUMENT FOUND
- 6' STOCKADE FENCE
- ASPHALT CURB
- 6' CHAIN LINK FENCE
- ⊕ UTILITY POLE
- CATCH BASIN
- ⊗ WATER VALVE
- ⊗ SEWER MANHOLE

CITY OF PORTSMOUTH PLANNING BOARD

CHAIRPERSON

DATE



| | | | |
|---|-----------|---------|--|
| 4 | 5/25/2022 | FOR PB | |
| 3 | 4/26/2022 | FOR TAC | |
| 2 | 4/19/2022 | FOR TAC | |
| 1 | 4/5/2022 | FOR TAC | |

| ISS. | DATE | DESCRIPTION OF ISSUE |
|---------|----------|----------------------|
| CHECKED | 1" = 20' | |
| DRAWN | A.ROSS | |
| CHECKED | D.D.D. | |

ROSS ENGINEERING, LLC
Civil/Structural Engineering
& Surveying
909 Kingston St.
Portsmouth, NH 03801
(603) 433-7560

CLIENT
RIGZ ENTERPRISES LLC
18 DIXON LANE
DERRY, NH 03038

LANDSCAPE PLAN

806 US-1 BYP.
PORTSMOUTH, NH 03801
TAX MAP 161, LOT 43

| JOB NUMBER | DWG. NO. | ISSUE |
|------------|----------|-------|
| 21-072 | 4 OF 6 | 4 |

- 1) BEDDING: BEDDING FOR PIPES SHALL CONSIST OF PREPARING THE BOTTOM OF THE TRENCH TO SUPPORT THE ENTIRE LENGTH OF THE PIPE AT A UNIFORM SLOPE AND ALIGNMENT. CRUSHED STONE SHALL BE USED TO BED THE PIPE TO THE ELEVATION SHOWN ON THE DRAWINGS. NORMAL PIPE BEDDING IS CRUSHED STONE TO THE HAUNCH OF THE PIPE AND SAND BEDDING 6" ABOVE THE CROWN. IF THE TOP OF THE PIPE IS LESS THAN 30" FROM FINISH GRADE, BED PIPE COMPLETELY IN STONE UP TO 6" ABOVE PIPE CROWN. UNDERDRAIN TO HAVE 4" MIN' OF STONE OVER PIPE OR AS NECESSARY TO BE IN CONTACT WITH GRAVEL LAYER OF SELECTS ABOVE. FILTER FABRIC TO BE PLACED IN BETWEEN ALL STONE BEDDING MATERIAL AND SUBSEQUENT LAYERS OF FILL MATERIAL.
- 2) COMPACTION: ALL BACKFILL SHALL BE COMPACTED AT OR NEAR OPTIMUM MOISTURE CONTENT BY PNEUMATIC TAMPERS, VIBRATORY COMPACTORS OR OTHER APPROVED MEANS. BACKFILL BENEATH PAVED SURFACES SHALL BE COMPACTED TO NOT LESS THAN 95 PERCENT OF AASHTO T99, METHOD C.
- 3) SUITABLE MATERIAL: IN ROADS, ROAD SHOULDERS, WALKWAYS AND TRAVELED WAYS, SUITABLE MATERIAL FOR TRENCH BACKFILL SHALL BE THE NATURAL MATERIAL EXCAVATED DURING THE COURSE OF CONSTRUCTION, BUT SHALL EXCLUDE DEBRIS; PIECES OF PAVEMENT; ORGANIC MATTER; TOP SOIL; ALL WET OR SOFT MUCK, PEAT, OR CLAY; ALL EXCAVATED LEDGE MATERIAL; ROCKS OVER 6 INCHES IN LARGEST DIMENSION; FROZEN EARTH AND ANY MATERIAL WHICH, AS DETERMINED BY THE ENGINEER, WILL NOT PROVIDE SUFFICIENT SUPPORT OR MAINTAIN THE COMPLETED CONSTRUCTION IN A STABLE CONDITION.

IN SEEDED AREAS, SUITABLE MATERIAL SHALL BE AS DESCRIBED ABOVE, EXCEPT THAT THE ENGINEER MAY PERMIT THE USE OF TOP SOIL, LOAD, ROCKS UNDER 12", FROZEN EARTH OR CLAY, IF HE/SHE IS SATISFIED THAT THE COMPLETED CONSTRUCTION WILL BE ENTIRELY STABLE AND PROVIDED THAT EAST ACCESS TO THE PIPE WILL BE PRESERVED.
- 4) BASE COURSE AND PAVEMENT: SHALL MEET THE REQUIREMENTS OF THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION'S LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES - DIVISIONS 300 AND 400 RESPECTIVELY.
- 5) DRAINAGE PIPE: PIPE MATERIALS SHALL BE POLYETHYLENE (SEE SPECIFICATIONS).
- 6) W=MAXIMUM ALLOWABLE TRENCH WIDTH: W SHALL BE THE MAXIMUM PAYMENT WIDTH FOR ROCK EXCAVATION (TRENCH) AND FOR ORDERED EXCAVATION BELOW GRADE.



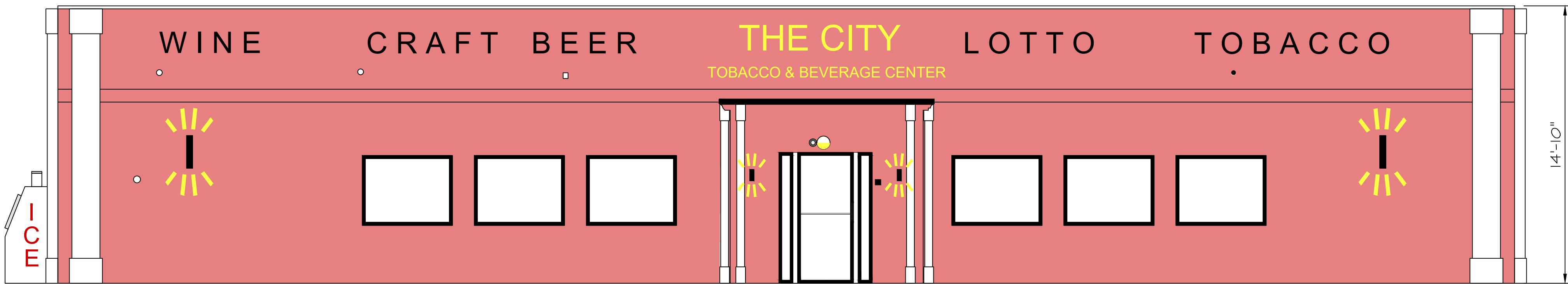
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| 3 | 4/26/2022 | FOR TAC | |
| 2 | 4/19/2022 | FOR TAC | |
| 1 | 4/5/2022 | FOR TAC | |
| ISS. | DATE | DESCRIPTION OF ISSUE | |
| SCALE | 1" = 20' | | |
| CHECKED | | | |
| A.ROSS | | | |
| DRAWN | | | |
| D.D.D. | | | |
| CHECKED | | | |
| <u>ROSS ENGINEERING, LLC</u> Civil/Structural Engineering & Surveying 909 Islington St. Portsmouth, NH 03801 (603) 433-7560 | | | |
| CLIENT | | | |
| RIGZ ENTERPRISES LLC | | | |
| 18 DIXON LANE | | | |
| DERRY, NH 03038 | | | |
| TITLE | | | |
| NOTES & DETAILS 806 US-1 BYP. PORTSMOUTH, NH 03801 TAX MAP 161, LOT 43 | | | |
| JOB NUMBER | | DWG. NO. | ISSUE |
| 21-072 | | 5 OF 6 | 4 |

Scale : N.T.S.

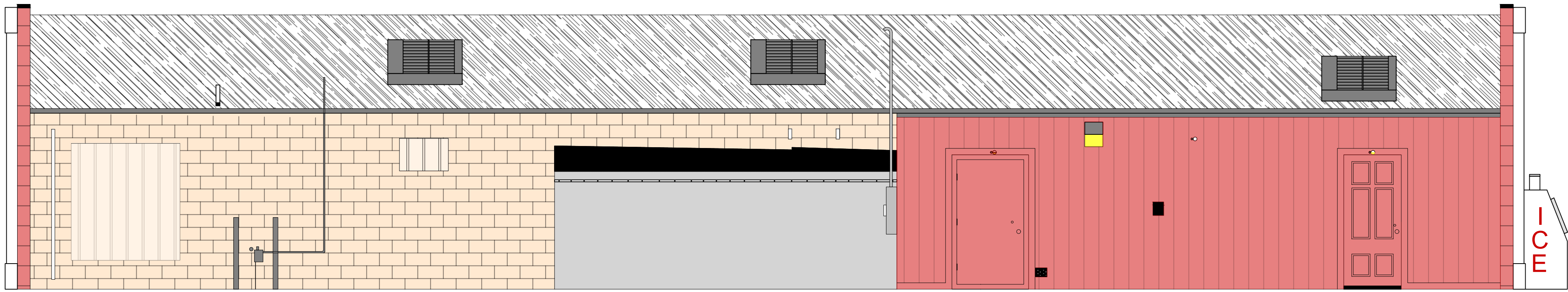
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- 3) BASE COURSE AND PAVEMENT SHALL MEET THE REQUIREMENTS OF THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION'S LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES - DIVISIONS 300 AND 400 RESPECTIVELY AND LOCAL REGULATION.
- 6) WOOD SHEATHING, IF REQUIRED: WHERE SHEETING IS PLACED ALONGSIDE THE PIPE AND EXTENDS BELOW MID-DIAMETER, IT SHALL BE CUT OFF AND LEFT IN PLACE TO AN ELEVATION 1 FOOT ABOVE THE TOP OF PIPE. WHERE SHEETING IS ORDERED BY THE ENGINEER TO BE LEFT IN PLACE, IT SHALL BE CUT OFF AT LEAST 3 FEET BELOW FINISHED GRADE, BUT NOT LESS THAN 1 FOOT ABOVE THE TOP OF THE PIPE.
- 7) W = MAXIMUM ALLOWABLE TRENCH PAYMENT WIDTH FOR LEDGE EXCAVATION AND FOR ORDERED EXCAVATION BELOW GRADE. FOR PIPES 15 INCHES NOMINAL DIAMETER OR LESS, W SHALL BE NO MORE THAN 36 INCHES. FOR PIPES GREATER THAN 12 INCHES IN NOMINAL DIAMETER, W SHALL BE 24 INCHES PLUS PIPE OUTSIDE DIAMETER (O.D.) ALSO, W SHALL BE THE PAYMENT WIDTH.
- 8) FOR CROSS COUNTRY CONSTRUCTION, BACKFILL OR FILL SHALL BE MOUNDED TO A HEIGHT OF 6 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
- 9) CONCRETE FOR ENCASEMENT SHALL CONFORM TO THE REQUIREMENTS OF SECTION 520, NHDDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
- 10) CONCRETE FULL ENCASEMENT: IF FULL ENCASEMENT IS UTILIZED, DEPTH OF CONCRETE BELOW PIPE SHALL BE 1/4 I.D. (4' MINIMUM). BLOCK SUPPORT SHALL BE SOLID CONCRETE BLOCKS.
- 11) GRAVEL DRIVEWAY AND SHOULDER RESTORATION: CRUSHED GRAVEL IN DRIVEWAYS AND ROAD SHOULDERS SHALL MATCH EXISTING WITH A MINIMUM OF 12". GRAVEL REPLACEMENT SHALL BE SUBSIDIARY TO SEWER CONSTRUCTION AND WILL NOT BE MEASURED FOR PAYMENT.

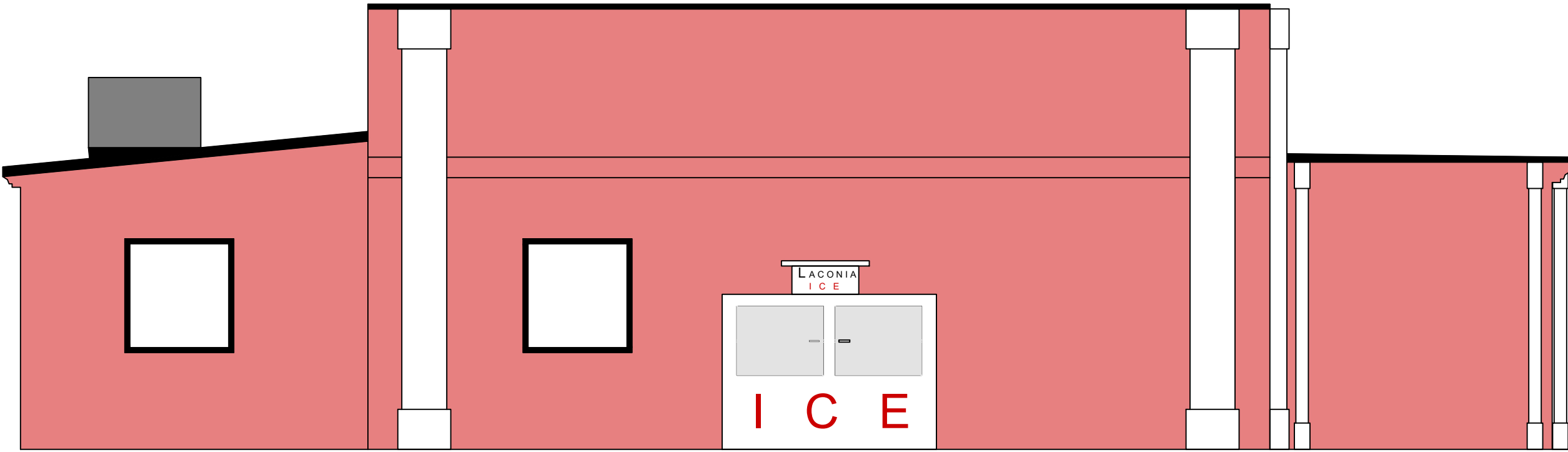
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| 3 | 4/26/2022 | FOR TAC | |
| 2 | 4/19/2022 | FOR TAC | |
| 1 | 4/5/2022 | FOR TAC | |
| ISS. DATE | | DESCRIPTION OF ISSUE | |
| SCALE 1" = 20' | | | |
| CHECKED A.ROSS | | | |
| DRAWN D.D.D. | | | |
| CHECKED | | | |
| <u>ROSS ENGINEERING, LLC</u> Civil/Structural Engineering & Surveying 809 Kington St. Portsmouth, NH 03801 (603) 433-7560 | | | |
| CLIENT RIGZ ENTERPRISES LLC 18 DIXON LANE DERRY, NH 03038 | | | |
| TITLE SEWER NOTES 806 US-1 BYP. PORTSMOUTH, NH 03801 TAX MAP 161, LOT 43 | | | |
| JOB NUMBER | | DWG. NO. | ISSUE |
| 21-072 | | 6 OF 6 | 4 |



FRONT ELEVATION
Scale : 1/4"=1'-0"



REAR ELEVATION
Scale : 1/4"=1'-0"



LEFT ELEVATION
Scale : 1/4"=1'-0"



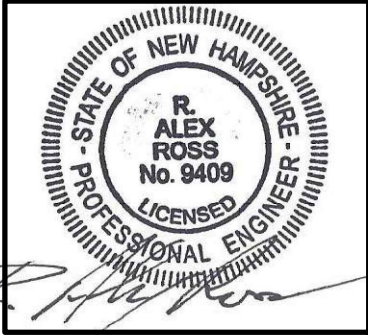
RIGHT ELEVATION
Scale : 1/4"=1'-0"

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| 2 | 6/22/2021 | FOR REVIEW | | |
| 3 | 4/12/2022 | FOR TAC | | |
| 4 | 4/26/2022 | REVISIONS | | |
| 5 | 5/25/2022 | REVISIONS | | |

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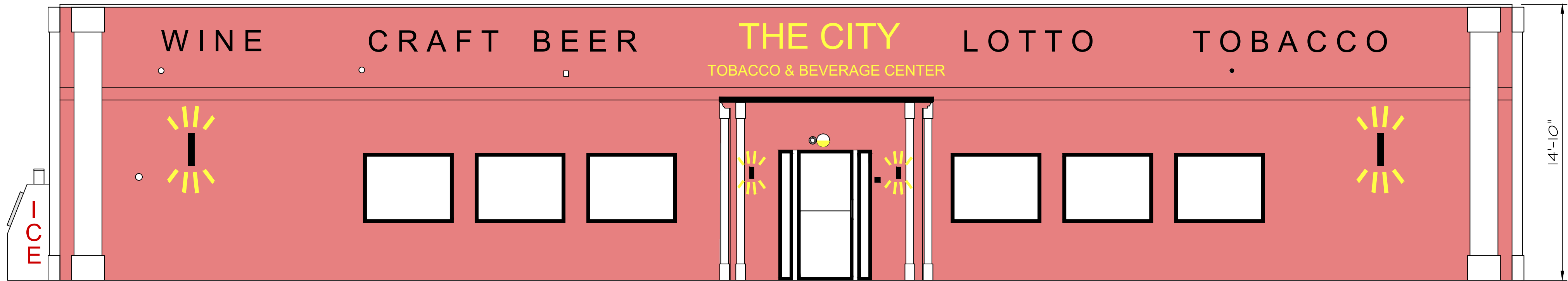
EXISTING ELEVATIONS
THE CITY TOBACCO & BEVERAGE CENTER
806 US-1 BYPASS
PORTSMOUTH
NEW HAMPSHIRE

PREPARED FOR:
DAVID GRZYBOWSKI
DESIGNED BY:
MGP 5/21/2021
DRAFTED BY:
MGP 5/21/2021
CHECKED BY:
AR 5/21/2021

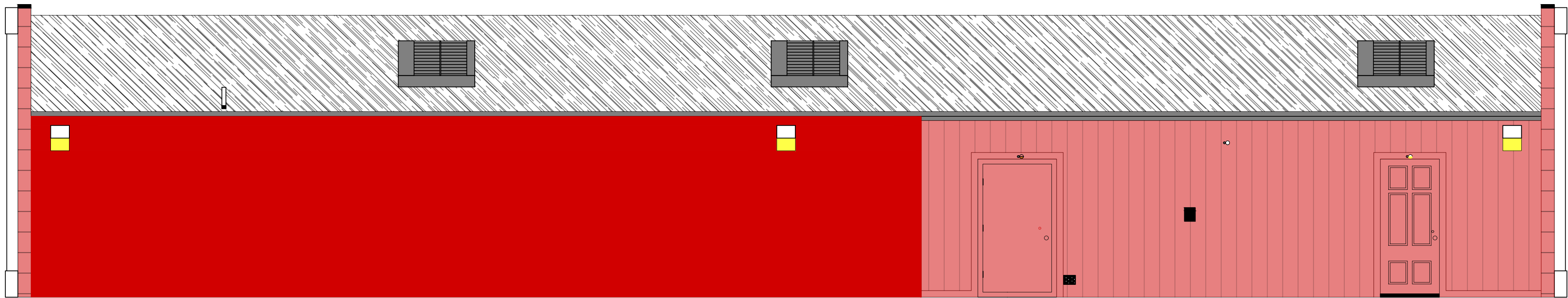


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SHEET: 1 OF 1
DRAWING:

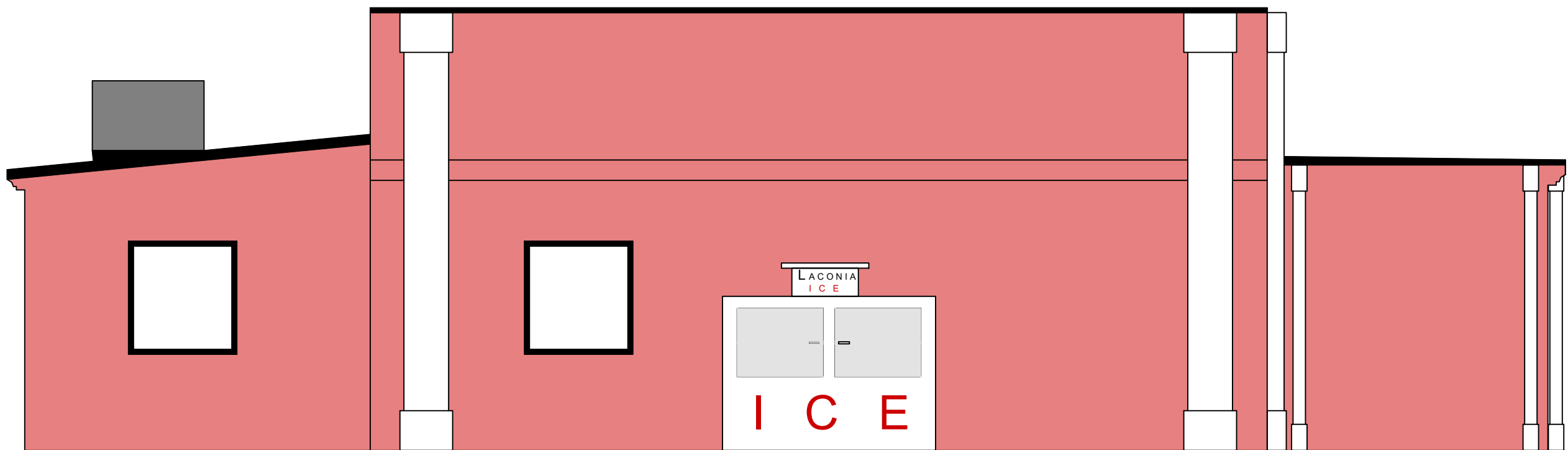
S1



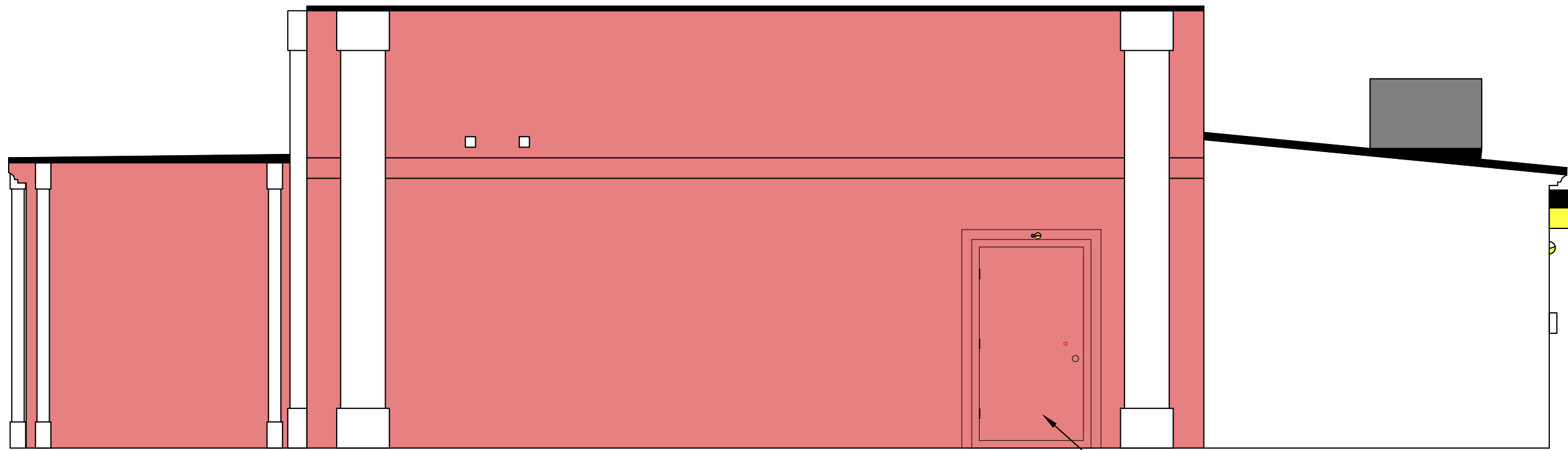
FRONT ELEVATION
Scale : 1/4"=1'-0"



REAR ELEVATION
Scale : 1/4"=1'-0"



LEFT ELEVATION
Scale : 1/4"=1'-0"



RIGHT ELEVATION
Scale : 1/4"=1'-0"

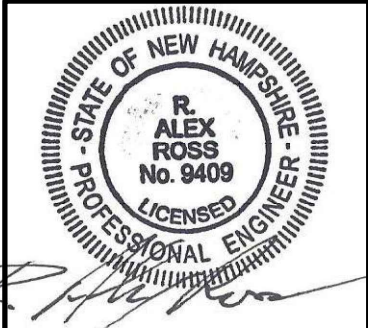
INSTALL SECOND MEANS
OF EGRESS TO COMPLY
WITH IBC 2015

| REVISION HISTORY | | | | |
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| REV | DATE | DESCRIPTION | CHK | |
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| 2 | 6/22/2021 | FOR REVIEW | | |
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| 4 | 4/26/2022 | REVISIONS | | |
| 5 | 5/25/2022 | REVISIONS | | |

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PROPOSED ELEVATIONS
THE CITY TOBACCO & BEVERAGE CENTER
806 US-1 BYPASS
PORTSMOUTH
NEW HAMPSHIRE

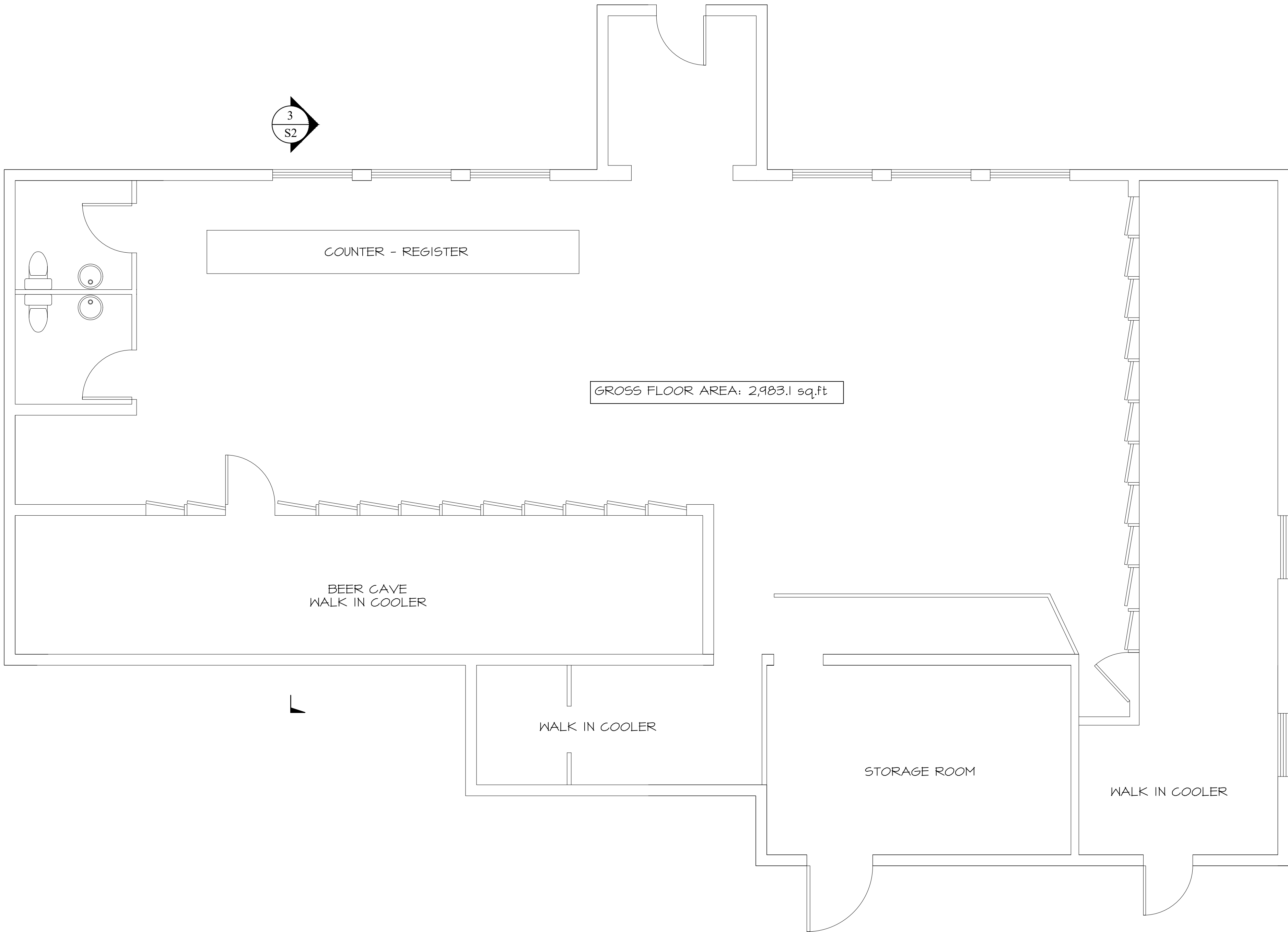
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| DESIGNED BY: | 5/21/2021 |
| DRAFTED BY: | 5/21/2021 |
| CHECKED BY: | 5/21/2021 |



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| JOB #: | 21-072 |
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| SHEET: | 2 OF 7 |
| DRAWING: | |

S2

STARK ST



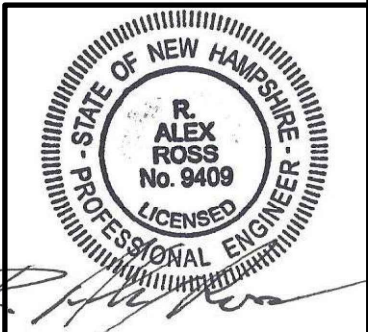
EXISTING FLOOR PLAN
Scale : 1/4"=1'-0"

| REVISION HISTORY | | | | |
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| REV | DATE | DESCRIPTION | CHK | |
| 1 | 6/15/2021 | FOR PERMITS | | |
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| 3 | 4/12/2022 | FOR TAC | | |
| 4 | 4/26/2022 | REVISIONS | | |
| 5 | 5/25/2022 | REVISIONS | | |

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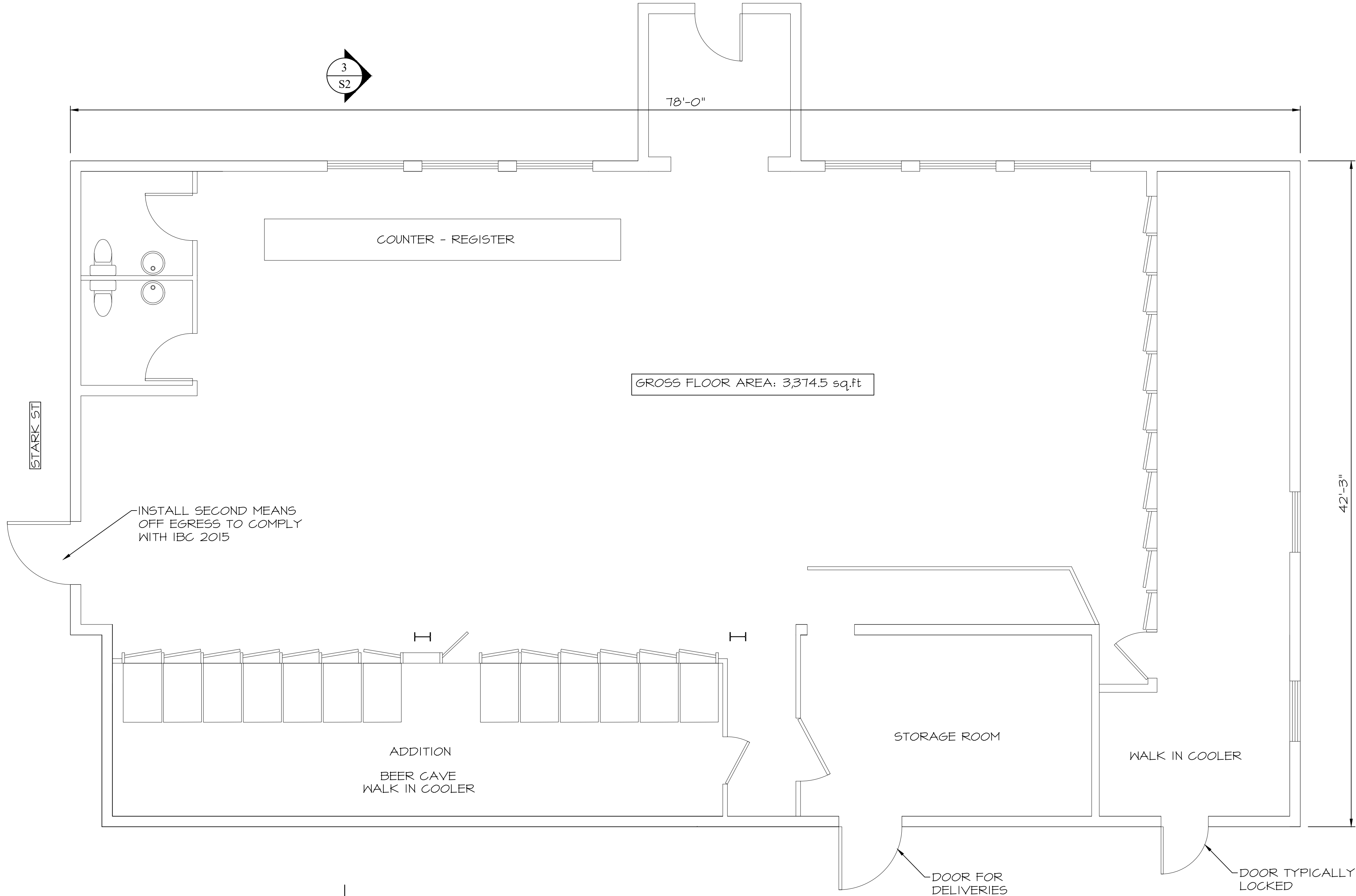
EXISTING FLOOR PLAN
THE CITY TOBACCO & BEVERAGE CENTER
806 US-1 BYPASS
PORTSMOUTH
NEW HAMPSHIRE

| | |
|-----------------------------------|-----------|
| PREPARED FOR: DAVID GRZYBOWSKI | |
| DESIGNED BY: | 5/21/2021 |
| DRAFTED BY: | 5/21/2021 |
| CHECKED BY: | 5/21/2021 |



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| JOB #: | 21-072 |
| SCALE: | AS NOTED |
| SHEET: | 3 OF 7 |
| DRAWING: | |

S3



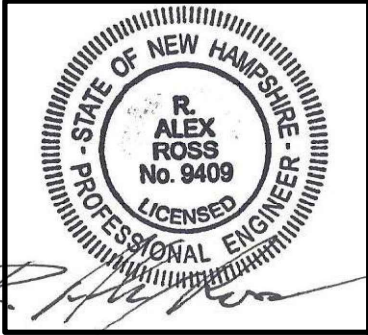
PROPOSED FLOOR PLAN
Scale : 1/4"=1'-0"

| REVISION HISTORY | | | | |
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| 5 | 5/25/2022 | REVISIONS | | |

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PROPOSED FLOOR PLAN
THE CITY TOBACCO & BEVERAGE CENTER
806 US-1 BYPASS
PORTSMOUTH
NEW HAMPSHIRE

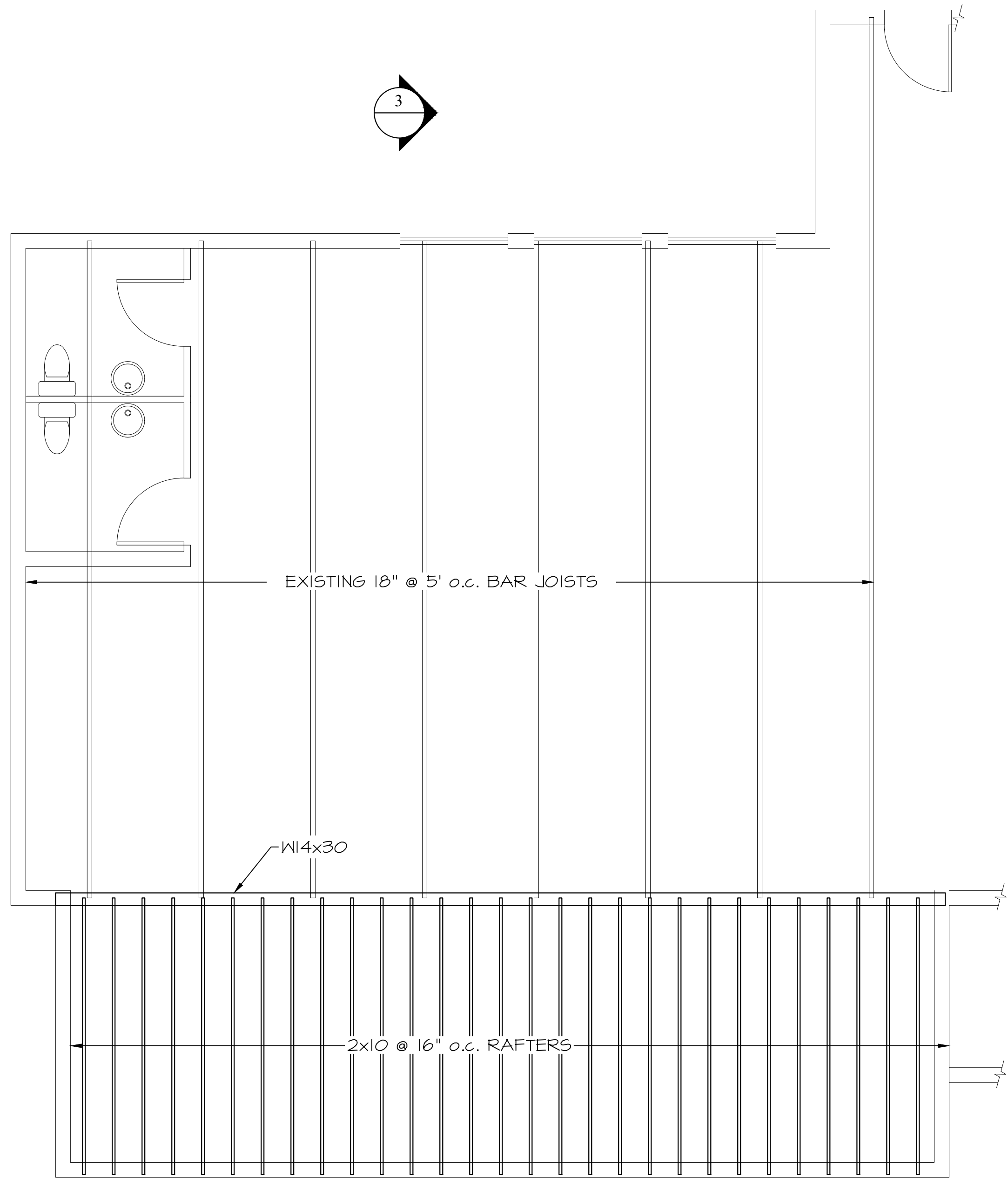
| | |
|-----------------------------------|-----------|
| PREPARED FOR: DAVID GRZYBOWSKI | |
| DESIGNED BY: | 5/21/2021 |
| DRAFTED BY: | 5/21/2021 |
| CHECKED BY: | 5/21/2021 |



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| JOB #: | 21-072 |
| SCALE: | AS NOTED |
| SHEET: | 4 OF 7 |
| DRAWING: | |

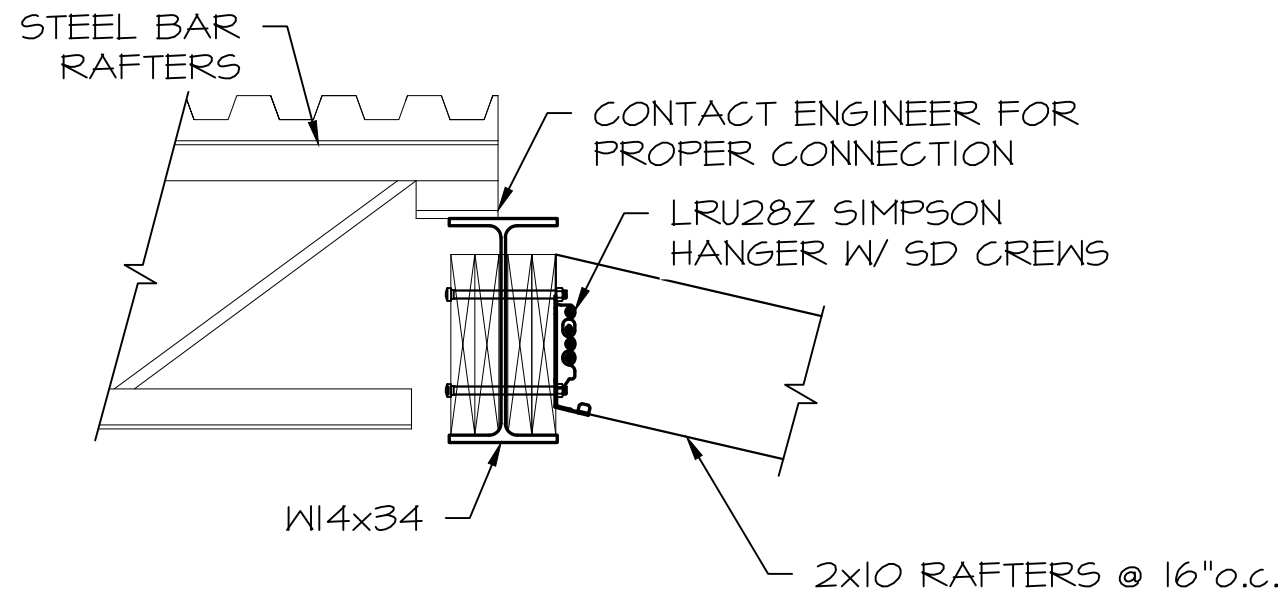
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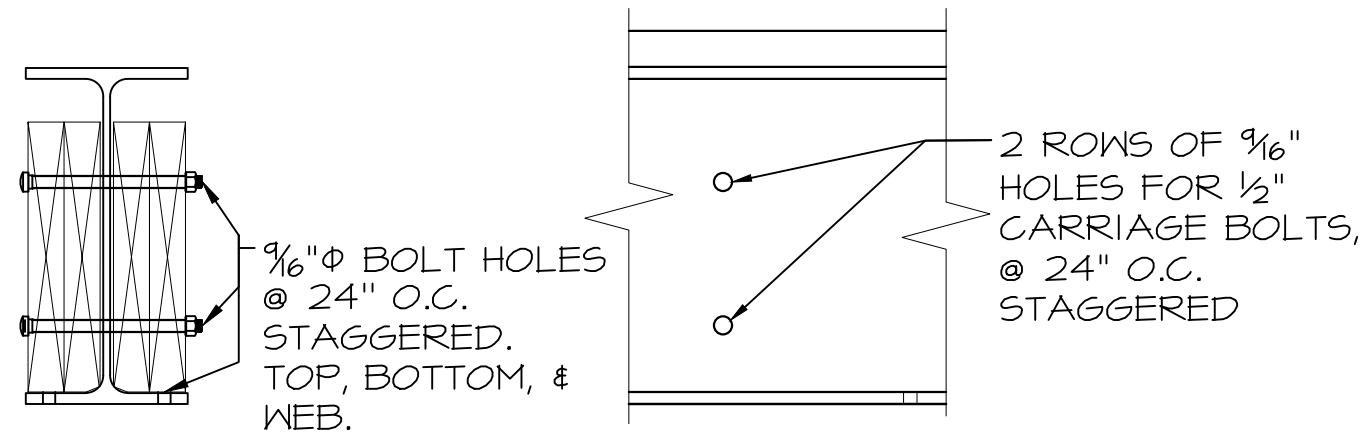
ROOF FRAMING PLAN

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



DETAIL A

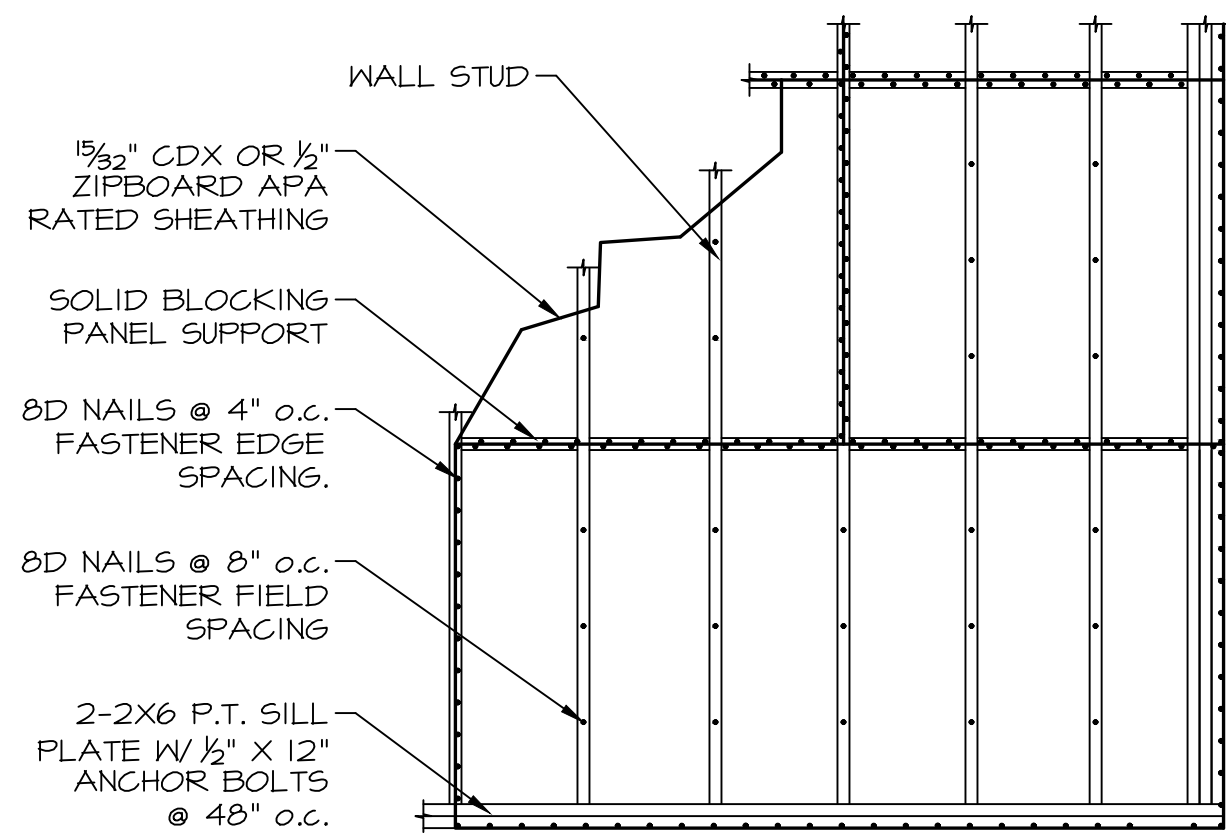
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CONTRACTOR TO PROVIDE LATERAL BEAM SUPPORT FOR ENTIRE LENGTH OF BEAM, WHILE MINIMIZING STIFFNESS DIFFERENTIAL BETWEEN WOOD AND STEEL MEMBERS. SIDE PADDING SHALL BEAR FULLY ON THE BOTTOM FLANGE OF THE STEEL BEAM

W14x34 NAILER DETAIL

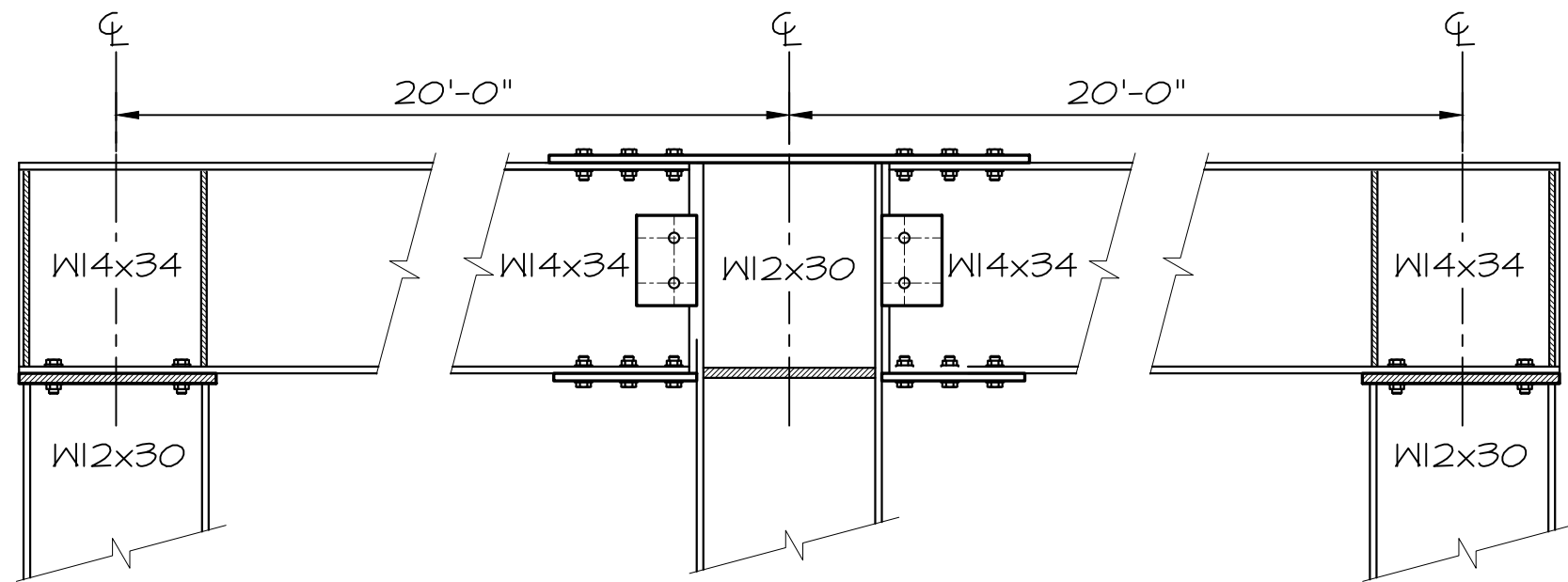
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NOTE:
NO PLYWOOD JOINTS SHALL OCCUR WITHIN 2 FT OF PLATE LINE.
ALL NAILS TO BE DRIVEN IN FLUSH W/ PLYWOOD SURFACE. DO NOT FRACTURE SURFACE OF SHEATHING W/ NAIL HEADS.
APPLIES TO ALL EXTERIOR WALLS AND SPECIFIED INTERIOR WALLS

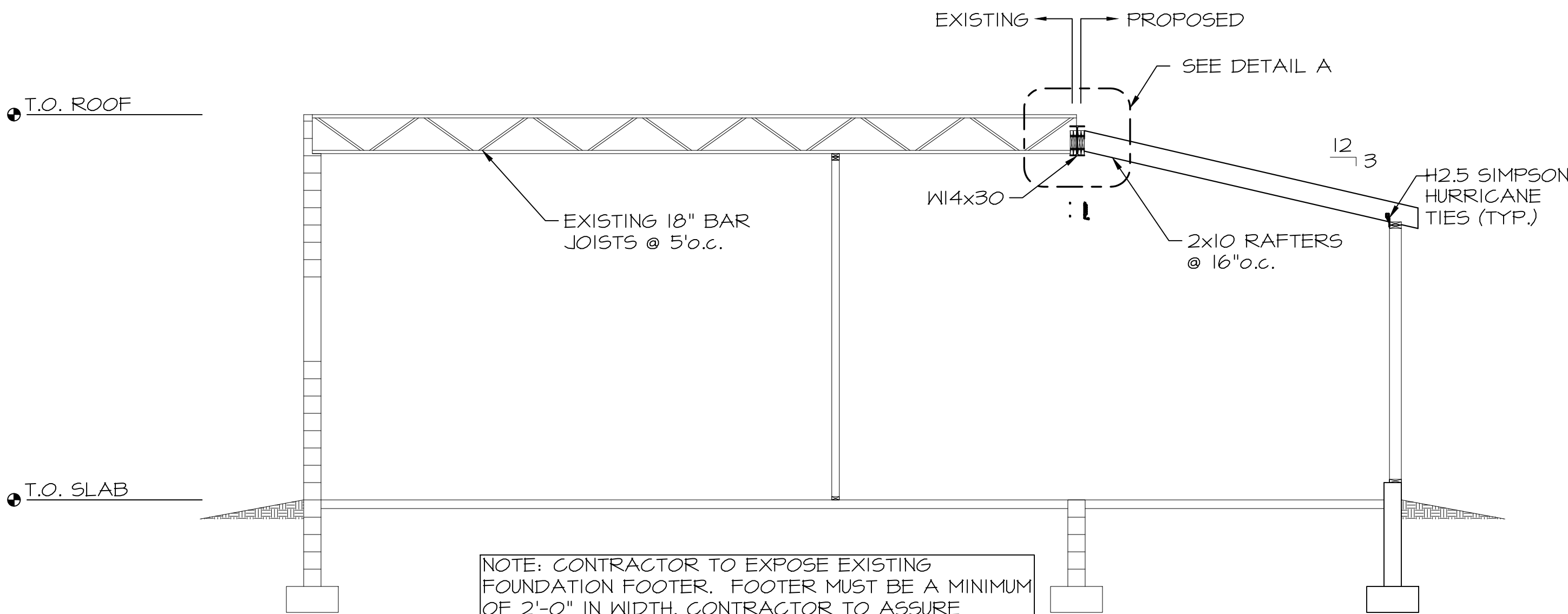
WALL SHEATHING NAILING PATTERN

Scale : 1/2"=1'-0"



MOMENT FRAME

Scale: 1"=1'-0"



NOTE: CONTRACTOR TO EXPOSE EXISTING FOUNDATION FOOTER. FOOTER MUST BE A MINIMUM OF 2'-0" IN WIDTH. CONTRACTOR TO ASSURE FOUNDATION AND FOOTER IS ADEQUATE TO SUPPORT PROPOSED ADDITIONAL FRAMING SHOWN.

SECTION 3

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

| REVISION HISTORY | | | | | CHK |
|------------------|-----------|-------------|-------------|------------|-----|
| REV | DATE | DESCRIPTION | FOR PERMITS | FOR REVIEW | |
| 1 | 6/15/2021 | | | | |
| 2 | 6/22/2021 | | | | |
| 3 | 4/12/2022 | | | | |
| 4 | 4/26/2022 | | | | |
| 5 | 5/25/2022 | | | | |

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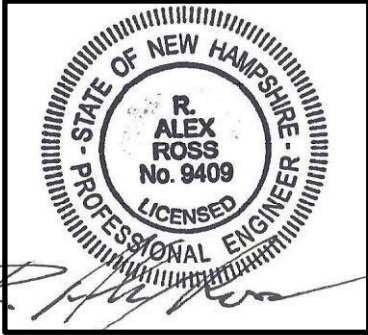
ROOF FRAMING PLAN & SECTION
THE CITY TOBACCO & BEVERAGE CENTER
806 US-1 BYPASS
PORTSMOUTH
NEW HAMPSHIRE

PREPARED FOR:
DAVID GRZYBOWSKI

DESIGNED BY:
MGP 5/21/2021

DRAFTED BY:
MGP 5/21/2021

CHECKED BY:
AR 5/21/2021



JOB #: 21-012
SCALE: AS NOTED
SHEET: 6 OF 7
DRAWING:

S6

GENERAL NOTES:

SCOPE OF ENGINEERING SERVICE:

ROSS ENGINEERING IS ONLY RESPONSIBLE FOR THE STRUCTURAL DESIGN AND ENGINEERING AS SHOWN ON THESE DRAWINGS.

THE INTENT OF THIS DRAWING SET IS TO DEPICT THE STRUCTURAL MEMBERS REQUIRED.

GENERAL:

1. ALL WORK SHALL CONFORM TO THE FOLLOWING REFERENCE STANDARDS.:

- "INTERNATIONAL BUILDING CODE" - 2015 EDITION.
- "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES" - ASCE 7-10.
- "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" - ACI 301-05.
- "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" - ACI 318-II.
- "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" - AF&PA NDS-2005.

2. ALL CONTRACTORS SHALL VERIFY AND COORDINATE ALL DIMENSIONS AND DETAILS RELATED TO THIS PROJECT. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT ENGINEER PRIOR TO PROCEEDING WITH THE AFFECTED WORK. ANY CHANGES OR SUBSTITUTIONS OF MATERIALS OR DETAILS FROM THOSE INDICATED ON THE CONTRACT DOCUMENTS MAY BE MADE ONLY WITH PRIOR APPROVAL OF THE PROJECT ENGINEER.

3. ALL CONTRACTORS SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, COORDINATION OF OTHER TRADES AND THE TECHNIQUES TO PRODUCE A SOUND AND QUALITY PROJECT. SHORING IS THE RESPONSIBILITY OF THE CONTRACTOR.

4. ALL CONTRACTORS SHALL BE RESPONSIBLE FOR ALL JOB SAFETY DURING CONSTRUCTION INCLUDING BUT NOT LIMITED TO SHEETING, SHORING, AND GUYING STRUCTURES, BARRIERS AND SIGNAGE.

5. ALL DETAILS AND NOTES SHOWN ON THE CONTRACT DOCUMENTS SHALL BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS EXCEPT WHERE SPECIFICALLY REQUIRED OTHERWISE.

6. NO MAIN FRAMING OR STRUCTURAL MEMBERS ARE TO BE MODIFIED, ALTERED, OR CUT WITHOUT THE APPROVAL OF THE PROJECT ENGINEER.

STRUCTURAL LOADS:

1. SNOW LOADS
PER INTERNATIONAL BUILDING CODE - 2015 EDITION AND MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES - ASCE 7-05
- EXPOSURE.....B
- GROUND SNOW LOAD.....50 PSF

FOUNDATIONS:

1. FOUNDATION DESIGN IS BASED ON AN ASSUMED NET ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF. VARYING CONDITIONS MUST BE BROUGHT TO THE ATTENTION OF THE PROJECT ENGINEER PRIOR TO WORK BEING CARRIED OUT. IT IS RECOMMENDED THAT THE OWNER HIRE A CONSULTANT TO PERFORM SOIL BORINGS AND ASSOCIATED TESTING TO VERIFY THE ASSUMED VALUES. THE CONTRACTOR OR OWNER SHALL ASSUME ALL RESPONSIBILITY IF A GEOTECHNICAL ENGINEER IS NOT RETAINED.

2. FOUNDATIONS SHALL BE FOUNDED ON NATURALLY UNDISTURBED SOIL OR CONTROLLED STRUCTURAL FILL HAVING A NET ALLOWABLE BEARING CAPACITY OF 2000 PSF.

3. MAINTAIN CONTINUOUS CONTROL OF SURFACE AND SUBSURFACE WATER DURING CONSTRUCTION SUCH THAT FOUNDATION WORK IS IN DRY AND UNDISTURBED SUB-GRADE MATERIAL, AS APPLICABLE.

4. ALL FOOTINGS EXPOSED TO FROST TO BE PLACED AT A MINIMUM DEPTH OF 4'-0" BELOW FINISH GRADE. ANY DISCREPANCIES OR ADJUSTMENTS TO THE FOOTING ELEVATIONS TO BE BROUGHT TO THE PROJECT ENGINEER PRIOR TO PLACEMENT OF CONCRETE.

5. ALL FOOTINGS SHALL BE CENTERED UNDER SUPPORTED STRUCTURAL MEMBERS UNLESS OTHERWISE NOTED ON THE DRAWINGS.

6. BACKFILL THE EXCAVATION WITH APPROVED GRANULAR MATERIAL PLACED IN 6 INCH LIFTS AND COMPACTED TO 95% DENSITY AT OPTIMUM MOISTURE CONTENT, AS DEFINED BY ASTM D1557, METHOD D AFTER BOTTOM OF EXCAVATION HAS BEEN APPROVED BY THE PROJECT ENGINEER.

7. BACKFILL SHALL BE PLACED TO EQUAL ELEVATIONS ON BOTH SIDES OF FOUNDATION WALLS. WHERE BACKFILL IS ON ONE SIDE ONLY, WORK SHALL BE SHORED OR HAVE PERMANENT ADJACENT CONSTRUCTION IN PLACE BEFORE BACKFILLING.

CONCRETE NOTES:

1. CONCRETE WORK SHALL CONFORM TO THE FOLLOWING REFERENCE STANDARDS:
- "INTERNATIONAL BUILDING CODE" - 2015 EDITION.
 - "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" - ACI 301-05.
 - "COLD WEATHER CONCRETING" - ACI-306.
 - "DETAILING REINFORCING STEEL" - ACI 315-05.
 - "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" - ACI 318-II.
 - "BUILDING CODE REQUIREMENTS FOR PLAIN CONCRETE" - ACI 322-05.
 - "FORMWORK" - ACI 347-05.

2. COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 4000 PSI AFTER 28 DAYS. WITH A SLUMP SHALL OF 4" TO 6" AND IN ACCORDANCE WITH ASTM C143.

3. REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM A615 GRADE 60. EXCEPT TIES AND STIRRUPS MAY BE GRADE 40. WELDED WIRE FABRIC (W.W.F.) SHALL BE SHEETS ONLY, IN ACCORDANCE WITH ASTM A185. LAP TWO SQUARES AT ALL JOINTS AND TIE AT 3'-0" ON CENTER.

4. CEMENT MIXTURE FOR CONCRETE SHALL CONTAIN TYPE II CEMENT CONFORMING WITH ASTM-C 150. THE WATER CEMENT RATIO SHALL NOT EXCEED 0.45.

5. AGGREGATE SHALL BE SOUND AND COMFORM TO THE PROVISIONS OF ASTM C33. COARSE AGGREGATE SIZE SHALL NOT EXCEED ¾". (NO. 67)

6. PLACING OF CONCRETE SHALL BE IN ACCORDANCE WITH ACI 304-05 AND SHALL BE A CONTINUOUS OPERATION AVOIDING ANY HORIZONTAL JOINTS. FORMWORK SHALL BE SMOOTH PLYWOOD FORMS FOR EXPOSED SLABS OR VERTICAL SURFACES. BOARD FORMS FOR FOOTINGS OR UNEXPOSED CONCRETE SURFACES. NO EARTH FORMS SHALL BE PERMITTED. ALL CONCRETE SHALL BE VIBRATED.

7. PLACE REINFORCING USING STANDARD BAR SUPPORTS TO PROVIDE PROPER CLEARANCE AND PREVENT DISPLACEMENT DURING CONCRETE OPERATIONS. LAP CONTINUOUS BARS 40 DIAMETERS.

8. REINFORCING BARS SHALL BE PLACED IN ACCORDANCE WITH THE LATEST EDITION OF THE CRSI "RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS".

9. PROPERLY BRACE AND SHORE FORMWORK TO MAINTAIN ALIGNMENT AND TOLERANCES IN ACCORDANCE WITH ACI 347-05.

CONCRETE CONTINUED:

10. PROVIDE TWO #5 BARS EACH SIDE OF ALL OPENINGS IN WALLS AND SLABS. BARS TO EXTEND 24" BEYOND EDGE OF OPENINGS. (FOR SIZE AND LOCATION OF OPENINGS, SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS).

11. MINIMUM CONCRETE COVER REQUIREMENTS OVER REINFORCING STEEL ARE AS FOLLOWS:
- FORMED CONCRETE EXPOSED TO EARTH, WEATHER, OR WATER - 2"
 - UNFORMED CONCRETE PLACED AGAINST THE EARTH - 3"
 - UNFORMED CONCRETE PLACED AGAINST VAPOR BARRIER - 2"
 - SLABS ON GRADE - 1" FROM TOP

12. DETAILS NOT SHOWN ON DRAWINGS SHALL BE IN ACCORDANCE WITH THE ACI DETAILING MANUAL (ACI 315-05).

13. CONTRACTOR TO NOTIFY THE OWNER'S ENGINEER 48 HOURS IN ADVANCE OF CONCRETE PLACEMENT SO THAT THE FORMWORK AND REINFORCING MAY BE INSPECTED PRIOR TO BEING COVERED.

14. CONSULT PROJECT OWNER FOR SURFACE FINISHES REQUIRED FOR CONCRETE SLAB.

15. UNDERSLAB VAPOR BARRIER SHALL BE AS MANUFACTURED BY STEGO INDUSTRIES OR EQUAL. CONSISTING OF 10 MIL STEGO M-RAP VAPOR BARRIER SEAMS SHALL BE OVERLAPPED A MINIMUM OF 6" AND TAPED WITH STEGO VAPOR BARRIER TAPE OR EQUAL AS REQ'D.

16. QUALITY CONTROL SPECIFICATIONS ARE AS FOLLOWS:
- CONTRACTOR SHALL MAKE PROVISIONS TO HAVE FOUR CYLINDERS CAST FOR EACH 50 CUBIC YARDS OR FOR ANY ONE DAYS OPERATION.
 - TESTING LABORATORY SHALL BE RESPONSIBLE FOR MAKING AND CURING SPECIMENS IN CONFORMANCE TO ASTM C31 AND TESTING SPECIMENS IN ACCORDANCE WITH ASTM C241.
 - ALL TESTING ASSOCIATED WITH CONCRETE SHALL BE IN ACCORDANCE WITH CHAPTER 17 OF "INTERNATIONAL BUILDING CODE" - 2004 EDITION.
 - THE COSTS OF ALL TESTS AND INSPECTIONS SHALL BE THE RESPONSIBILITY OF THE OWNER.

WOOD FRAMING:

1. ALL WOOD FRAMING SHALL CONFORM TO THE FOLLOWING REFERENCE STANDARDS.:
- "INTERNATIONAL BUILDING CODE - 2015 EDITION"
 - "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" - AF&PA NDS-2005

2. ALL FRAMING MEMBERS SHALL BE NO.1 / NO. 2 OR BETTER SPRUCE-PINE-FIR WITH A MAXIMUM MOISTURE CONTENT OF 19% UNLESS NOTED OTHERWISE.
- BASE DESIGN VALUES:
Fb=875 (1200 REP) PSI, Fv=TO PSI, E=1,400 KSI

3. ALL LUMBER AND PLYWOOD SHALL BE GRADE-STAMPED BY THE APPROPRIATE MANUFACTURER'S ASSOCIATION FOR THE APPROPRIATE USE.
- ROOF: 1 3/2" SQUARE EDGE PLYWOOD w/ FRAMING CLIPS
- FLOORS: 2 3/2" TONGUE & GROOVE PLYWOOD
- WALLS: 1 3/2" PLYWOOD

4. ROOF AND WALL SHEATHING SHALL COMPLY WITH THE FOLLOWING:
- APA RATED SHEATHING, EXPOSURE 1 OR 2
 - ROOF SHEATHING SHALL HAVE A 40/20 SPAN RATING
 - ROOF SHEATHING SHALL HAVE (1) PANEL EDGE CLIP BETWEEN EACH SUPPORT
 - A 1/8" EXPANSION GAP SHALL BE LEFT BETWEEN ALL PANELS AS REQUIRED BY APA
 - SHEETS SHALL BE INSTALLED WITH FACE GRAIN PERPENDICULAR TO SUPPORTING MEMBERS

5. ALL WOOD IN CONTACT WITH CONCRETE, MASONRY, OR EARTH SHALL BE PRESSURE TREATED (PT) WITH A CCA-C 0.40 PROCESS.

6. ALL FRAMING SHALL BE PLUMB, TRUE, AND ADEQUATELY BRACED SUCH THAT THE STRUCTURE IS RIGID AND BEARS FULLY WITHOUT THE USE OF SHIMS.

7. SPIKE TOGETHER ALL FRAMING MEMBERS WHICH ARE BUILT UP WITH 16d NAILS AT 16" O.C. MAX. UNLESS NOTED OTHERWISE. PROVIDE PLYWOOD FILLERS BETWEEN 2x MEMBERS TO MATCH WALL THICKNESS.

8. PROVIDE A MINIMUM OF TWO 2x STUDS AT THE END OF ALL BUILT-UP 2x BEAMS AND LVL BEAMS, UNLESS NOTED OTHERWISE.

9. CORNERS OF EXTERIOR WALLS SHALL HAVE A MINIMUM OF (3) 2x STUDS.

10. PROVIDE SOLID BLOCKING UNDER ALL CONCENTRATED LOADS. PROVIDE CONTINUITY TO TOP OF FOUNDATION WALL OR FOOTING.

11. PROVIDE A DOUBLE TOP PLATE FOR ALL EXTERIOR WALLS w/ SPLICES STAGGERED BY 4'-0" MIN.

12. NON-STRUCTURAL INTERIOR WALLS SHALL BE CONSTRUCTED w/ 2x4 STUDS.

13. ENGINEERED LUMBER PRODUCTS SHALL BE MANUFACTURED BY BOISE CASCADE OR APPROVED EQUAL, INCLUDING ALL I-JOISTS AND LVL's. ALL BOISE CASCADE PRODUCTS SHALL BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS AND STANDARD DETAILS AS PUBLISHED BY BOISE CASCADE.
- BASE DESIGN VALUES:
 - 1 3/4" WIDE VERSA-LAM BEAMS GRADE 3100 Fb 5P
Fb=3100 PSI, Fv=285 PSI, E=2,000 KSI
 - 3 1/2" AND WIDER VERSA-LAM BEAMS GRADE 3100 Fb 5P
Fb=3100 PSI, Fv=285 PSI, E=2,000 KSI
 - VERSA-LAM COLUMNS GRADE 3100 Fb 5P
Fb=3100 PSI, FcII=3,000 PSI, E=1,800 KSI

14. FASTENERS SHALL COMPLY WITH THE FOLLOWING:
- NAILS SHALL BE COMMON WIRE NAILS, GALVANIZED @ EXPOSED FRAMING
 - BOLTS, NUTS AND WASHERS SHALL BE ASTM A-307, HOT DIP GALVANIZED AT EXTERIOR EXPOSED FRAMING CONFORMING TO ASTM A153
 - METAL CONNECTORS SHALL BE AS MANUFACTURED BY SIMPSON OR APPROVED EQUAL
 - STAINLESS STEEL NAILS FOR ATTACHING EXTERIOR TRIM AND SIDING
 - ALL WOOD MEMBERS TO BE NAILED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE - 2004 EDITION APPENDIX C

15. PLYWOOD SHALL BE NAILED AT 6" OC AT ALL JOINTS AND EDGES & AT 10" OC AT OTHER SUPPORTS. PLYWOOD SUB-FLOORS SHALL BE GLUED TO JOISTS, BEFORE NAILING WITH CONSTRUCTION ADHESIVE.

16. LIGHTWEIGHT RESIDENTIAL LALLY COLUMNS - 3 1/2" OUTER DIAMETER 16 GAUGE STEEL PIPE CONFORMING TO ASTM A513 FILLED WITH CONCRETE HAVING A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AT 28 DAYS. (UNLESS OTHERWISE NOTED.)

17. PROVIDE DOUBLE JOISTS UNDER PARALLEL PARTITION WALLS AT ALL FLOORS UNLESS OTHERWISE NOTED.

18. NEW PRESSURE TREATING PROCESSES REQUIRED FOR WOOD ARE HIGHLY CORROSIVE. SEE NOTE 5. AND MANUFACTURER'S RECOMMENDATIONS FOR FASTENING TO PT WOOD.

STRUCTURAL STEEL:

1. ALL STEEL FRAMING WORK SHALL CONFORM TO THE FOLLOWING REFERENCE STANDARDS.:
- "INTERNATIONAL BUILDING CODE" - IBC 2015 EDITION.
 - "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN" - AISC-A5D 13TH ED.
 - "DII STRUCTURAL WELDING CODE / STEEL" - AWS 1948.

2. ALL STEEL FRAMING SHALL CONSIST OF THE FOLLOWING:

- WF AND WT SHAPES - ASTM A992
- TUBE COLUMNS - ASTM A500 - GRADE B - Fy=46 KSI
- PIPE COLUMNS - ASTM A53 - GRADE B - TYPE E OR S, SCHEDULE 80
- ALL OTHER STRUCTURAL SHAPES AND PLATES - ASTM A36
- BOLTS - CONNECTIONS ASTM A325, ANCHOR BOLTS ASTM A307
- WELDING ELECTRODES - E70XX SERIES

3. SHOP FABRICATE TO THE GREATEST EXTENT POSSIBLE BY WELDING. PROVIDE ALL BEAM COLUMN STIFFENERS, COLUMN CAPS AND BASE PLATES WITH HOLES AS REQUIRED. PROVIDE ALL NECESSARY CONNECTION HARDWARE FOR CONNECTIONS.

4. SUBMIT SHOP DRAWINGS FOR ALL STEEL MEMBERS PREPARED FROM FIELD DIMENSIONS, FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION. CONNECTIONS SHALL BE DESIGNED AND STAMPED BY A ENGINEER REGISTERED IN THE STATE OF NEW HAMPSHIRE AND SUBMITTED TO SER PRIOR TO FABRICATION. CONNECTIONS SHALL BE BOLTED WITH A325-N BOLTS

5. PROVIDE ALL ANCHOR BOLTS, LEVELING PLATES, AND ALL NECESSARY HARDWARE TO ERECT THE STEEL PLUMB, LEVEL AND SQUARE. PROVIDE TEMPORARY BRACING UNTIL ROOF AND PERMANENT BRACING IS IN PLACE.

6. CONTRACTOR SHALL FIELD TOUCH UP ALL ABRASIONS, BURNS AND SIMILAR DEFECTS IN PAINT OF ALL STRUCTURAL STEEL.

7. QUALITY CONTROL SPECIFICATIONS ARE AS FOLLOWS:
- PROVIDE SERVICE OF INDEPENDENT TESTING LABORATORY FOR THE FOLLOWING:
 - VISUAL INSPECTION OF FILLET WELDS.
 - INSPECTION OF BOLT INSTALLATION AND BOLT TENSION.
 - ALL TESTING ASSOCIATED WITH STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE APPROPRIATE SECTION OF IBC 2015.
 - THE COSTS OF ALL TESTS AND INSPECTIONS SHALL BE THE RESPONSIBILITY OF THE OWNER.

8. ERECTION NOTES: TOUCH-UP AND REPAIR FOR METAL-COATED SURFACES, CLEAN WELDS, BOLTED CONNECTIONS AND ABRADED AREAS; APPLY ORGANIC ZINC REPAIR PAINT COMPLYING WITH REQUIREMENTS OF ASTM A780. GALVANIZING REPAIR PAINT SHALL HAVE 65% ZINC BY WEIGHT. THICKNESS OF APPLIED GALVANIZING REPAIR PAINT SHALL NOT BE LESS THAN COATING THICKNESS REQUIRED BY ASTM A123 OR A153 AS APPLICABLE.

9. ALL WELDING SHALL BE PERFORMED BY AWS-CERTIFIED WELDERS.

10. SHOP FABRICATE TO THE GREATEST EXTENT POSSIBLE BY WELDING. PROVIDE ALL BEAM COLUMN CAPS AND BASES WITH HOLES AS REQUIRED. PROVIDE ALL NECESSARY CONNECTION HARDWARE FOR CONNECTIONS.

11. PAINT - NON-GALVANIZED STEEL SHALL RECEIVE APPROVED PRIMER - 2 MILS THICK, ALL STRUCTURAL STEEL SHALL BE SHOP PAINTED WITH ONE COAT OF SHERWIN WILLIAMS STRUCTURAL STEEL PRIMER, GRAY (PRODUCT NUMBER B50AV1).

| REVISION HISTORY | | | | | CHK |
|------------------|-----------|-------------|-------------|------------|-----|
| REV | DATE | DESCRIPTION | FOR PERMITS | FOR REVIEW | |
| 1 | 6/15/2021 | | | | |
| 2 | 6/22/2021 | | | | |
| 3 | 4/12/2022 | | | | |
| 4 | 4/26/2022 | | | | |
| 5 | 5/25/2022 | | | | |

ROSS ENGINEERING, LLC

Civil/Structural Engineering & Surveying

909 Islington St
Portsmouth, NH 03801
(603) 433-7560

NOTES

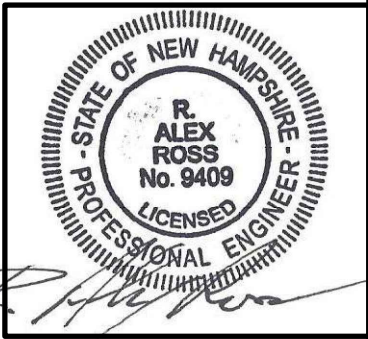
THE CITY TOBACCO & BEVERAGE CENTER

806 US-1 BYPASS

PORTSMOUTH

NEW HAMPSHIRE

| | |
|---------------|------------------|
| PREPARED FOR: | DAVID GRZYBOWSKI |
| DESIGNED BY: | |
| MGP | 5/21/2021 |
| DRAFTED BY: | |
| MGP | 5/21/2021 |
| CHECKED BY: | |
| AR | 5/21/2021 |



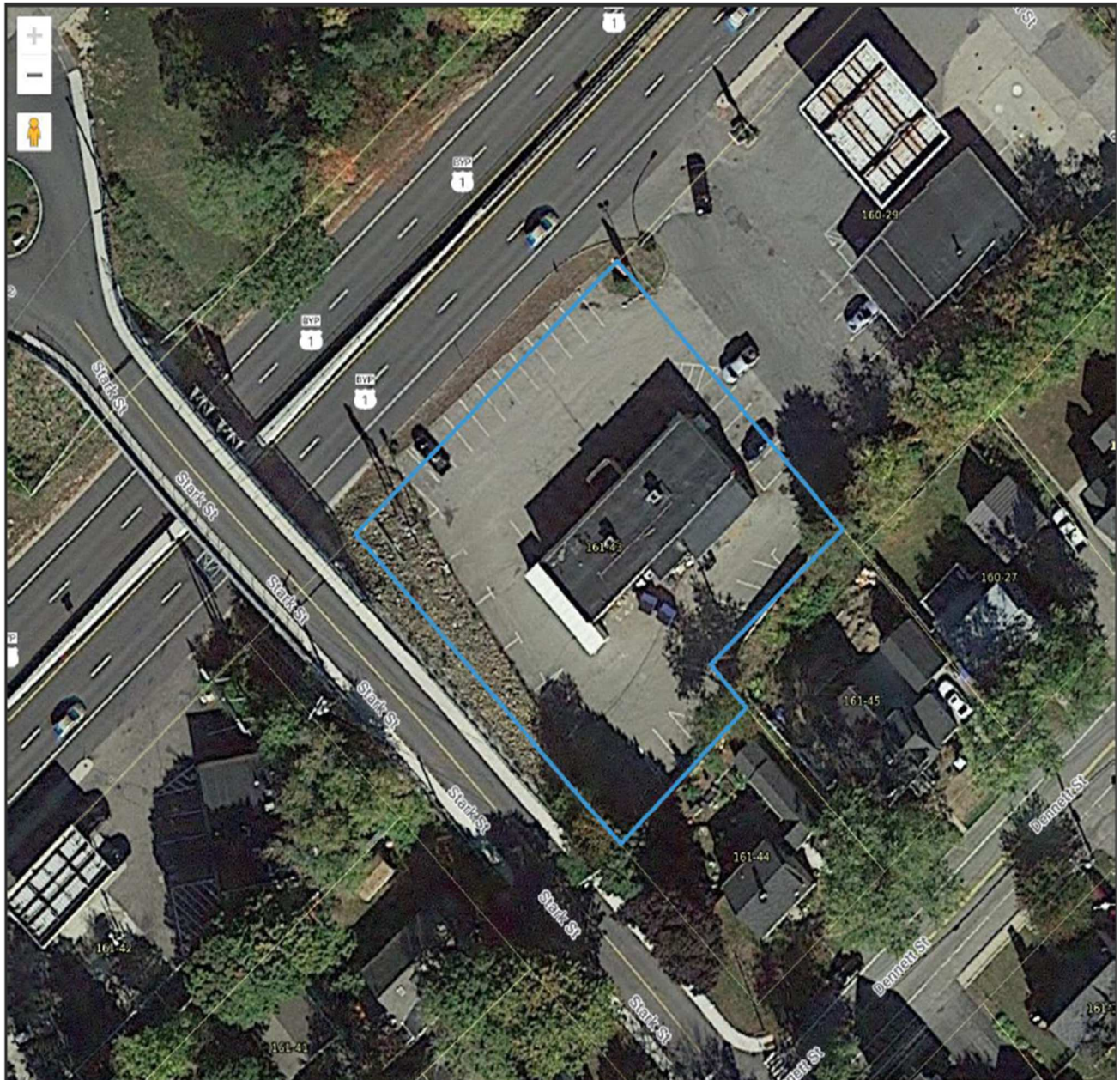
| | |
|----------|----------|
| JOB #: | 21-072 |
| SCALE: | AS NOTED |
| SHEET: | 7 OF 7 |
| DRAWING: | |

S7

**Ross Engineering
Civil / Structural Engineering**

909 Islington Street
Portsmouth, NH 03801

603-433-7560
alexross@comcast.net



Aerial view of site

**Ross Engineering
Civil / Structural Engineering**

**909 Islington Street
Portsmouth, NH 03801**

**603-433-7560
alexross@comcast.net**



View from Stack Street Bridge

**Ross Engineering
Civil / Structural Engineering**

909 Islington Street
Portsmouth, NH 03801

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alexross@comcast.net



View of existing building looking to the southwest



View of front of existing building looking to the southeast

**Ross Engineering
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909 Islington Street
Portsmouth, NH 03801

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alexross@comcast.net



View of right front side of existing building looking to the southeast



View of existing building looking to the east

**Ross Engineering
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**909 Islington Street
Portsmouth, NH 03801**

**603-433-7560
alexross@comcast.net**



View of southwest corner of parking lot



View of existing building looking to the southwest

**Ross Engineering
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**909 Islington Street
Portsmouth, NH 03801**

**603-433-7560
alexross@comcast.net**



View of rear of existing building looking to the north

Ross Engineering
Civil/Structural Engineering & Surveying

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Portsmouth, NH 03801

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May 25, 2022

Planning Department
City of Portsmouth
1 Junkins Ave
Portsmouth, NH 03801
Waiver Request Letter

Re: 806 US Route 1 Bypass
Portsmouth, NH 03801
Tax Map 161, Lot 43

Planning Board Members, we are requesting waivers from the following regulations:

- *Section 2.5.3.1A "Statement that lists and describes "green" building components and systems."*
This project does not involve building a completely new structure from the ground up. What is proposed is a very small addition to an existing building. The existing commercial structure was built in 1965. The addition will be compliant with current code requirements and make the building much more energy efficient with proper insulation in the addition walls and roof. Uninsulated concrete block walls will be replaced with fully insulated standard construction walls.
- *Section 2.5.3.2D Utility service providers*
The demand for utility services will not change from existing.
- *Section 7.4.4.1 & Section 2.5.3.2B "Exhibits, data, reports or studies that may have been required as part of the approval process, including but not limited to"*
This site is unique in that it has been fully developed form many decades. We are adding landscaping and open space will now be in compliance. By adding landscaped areas, the drainage and infiltration will be improved. Previous uses have been more intense in use. This project went through an extensive TAC review process.
- *Section 9.3.5 "Dumpster of other waste container pads shall be a minimum of 20 feet from any property line or yard"*
The dumpster enclosure will be 10 feet from the side property line. On this parcel the side parcel line abuts a stone embankment along Stark Street and the Stark Street bridge. A waiver is necessary to locate the dumpsters in this area. This location will be far away from residential use, still allow traffic to function, and was recommended by TAC.

Thank you for your consideration.
Sincerely, Alex Ross, P.E.

**Ross Engineering
Civil / Structural Engineering**

**909 Islington Street
Portsmouth, NH 03801**

**603-433-7560
alexross@comcast.net**

List of Abutters

Dated 5-25-2022

To: New Hampshire Department of Environmental Services

Applicant & Land Owner's Name:

**Rigz Enterprises LLC
18 Dixon Ln
Derry, NH 03038**

Location of Land:

**806 Route 1 Bypass
Portsmouth, NH 03801
Tax Map 161, Lot 43**

Abutters:

**Portsmouth Realty LLC
1100 William Penn Dr
Bensalem, PA 19020
Tax Map 160, Lot 29**

**Myrinda A. Solito
2 Stark St
Portsmouth, NH 03801
Tax Map 161, Lot 41**

**GTY MA/NH Leasing, Inc.
326 Clark St
Worcester, MA 01606
Tax Map 161, Lot 42**

**Alice B. Kucharik & Nicolas Webster
507 Dennett St
Portsmouth, NH 03801
Tax Map 161, Lot 44**

**Lindsay Floryan & Brian Collier
439 Dennett St
Portsmouth, NH 03801-3691
Tax Map 161, Lot 45**

**City of Portsmouth
New Franklin School
PO Box 628
Portsmouth, NH 03802
Tax Map 220, Lot 2**

Civil Engineer & Surveyor

**Alex Ross
Ross Engineering
Certified Professional Engineer
Licensed Land Surveyor
909 Islington Street
Portsmouth, NH 03801**

KT-ALED140-M1-X-NM-8XX-VDIM

LED AREA LIGHT FIXTURES

DESCRIPTION

Compact 140W High-Performance LED Area Light |
120–277V Input | Bronze Housing |
Multiple Mounting, Optics, and Control options

APPLICATION

Pole-mount or structure-mount outdoor illumination needs (including parking lots, auto dealerships, pathways, roadways, recreational venues, and other general area lighting requirements)

RoHS
Compliant



5YEAR
WARRANTY



PRODUCT FEATURES

- Compact, low-profile design delivers high-performance illumination and improves application site aesthetics
- Heavy-duty, die-cast aluminum housing with ample heat sinking for enhanced thermal performance
- True U0 design for Dark Sky compliant performance eliminates undesirable sky glow
- Integrated NEMA/ANSI C136.10 3-pin twist-lock receptacle with shorting cap, standard on all fixtures, simplifies ordering requirements for photo control needs
- Precision-crafted optics, available with type II, III, IV, and V patterns, to meet diverse requirements from general purpose to specification-grade applications
- Integral latch design for hassle-free, hinged access to driver compartment
- Four contractor-friendly mounting options available (sold separately): slip fitter mount, adjustable pole mount for square and round poles, fixed pole mount for square and round poles, and trunnion mount
- Bi-level occupancy sensor and twist-lock photocell accessories available
- Reversible glare shield available, suitable for backside (house-side) or frontside (street-side) shielding
- Powered by Keystone 0–10V dimming LED driver featuring 12V AUX power tap, 6kV surge protection
- Ambient operating temperature: –40°C/–40°F to 50°C/122°F
- UL Certified for wet locations, IP65
- 0–10V dimming, 10% min
- Power factor: >0.95
- THD: <20%
- LED chip lifetime: L70 >100,000 hrs @ 25°C/77°F ambient fixture temp
- Meets FCC Part 15, Part B, Class A standards for conducted and radiated emissions

ELECTRICAL SPECIFICATIONS

| Catalog Number | Wattage | Lumens | Efficacy | Dimming | Color Temp | CRI | Dist Type* | Input Voltage | Rated Life | Legacy Equivalent | Housing Color** | Additional Feature |
|-----------------------------|---------|-----------|----------|---------|------------|-----|------------|---------------|------------|-------------------|-----------------|---|
| KT-ALED140-M1-3-NM-840-VDIM | 140W | 19,320 lm | 138 lm/W | 0–10V | 4000K | >80 | III | 120–277V | 50,000 hrs | 400W | Bronze | 10kV external surge protection included |
| KT-ALED140-M1-3-NM-850-VDIM | | 19,600 lm | 140 lm/W | | 5000K | | III | | | | | |
| KT-ALED140-M1-5-NM-840-VDIM | | 19,460 lm | 139 lm/W | | 4000K | | V | | | | | |
| KT-ALED140-M1-5-NM-850-VDIM | | 19,740 lm | 141 lm/W | | 5000K | | V | | | | | |

* Fixtures with Type 2 (II) and Type 4 (IV) optics are available and assembled to order. Lead times may apply. Please see catalog number breakdown for full ordering code details.

** Fixtures (and mounts) with alternate housing colors are available and made to order. Extended lead times apply. Please see catalog number breakdown for full ordering code details.

KT-ALED140-M1-X-NM-8XX-VDIM

LED AREA LIGHT FIXTURES

MOUNTING BRACKET OPTIONS (SOLD SEPARATELY)

SLIP FITTER MOUNT

Fits 2 3/8" tenon; Bronze

| Catalog Number | UPC | Easy Code |
|------------------|--------------|-----------|
| KT-ALED-SF-1-KIT | 843654131641 | JRH-74 |



ADJUSTABLE POLE MOUNT

For round or square pole; Bronze

| Catalog Number | UPC | Easy Code |
|-------------------|--------------|-----------|
| KT-ALED-PMA-1-KIT | 843654131634 | DAQ-87 |



FIXED POLE MOUNT

For round or square pole; Bronze

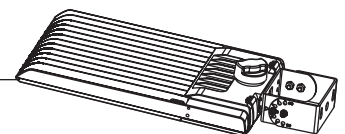
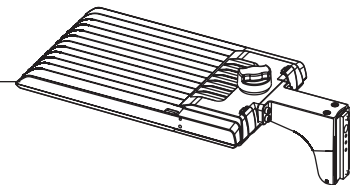
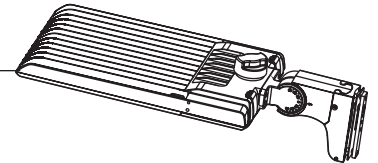
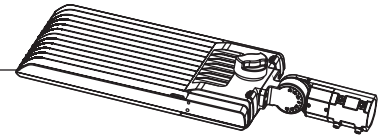
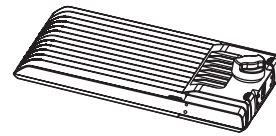
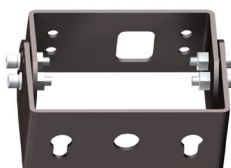
| Catalog Number | UPC | Easy Code |
|------------------|--------------|-----------|
| KT-ALED-PM-1-KIT | 843654131627 | QVG-29 |



TRUNNION MOUNT

Bronze

| Catalog Number | UPC | Easy Code |
|------------------|--------------|-----------|
| KT-ALED-TM-1-KIT | 843654131658 | GTH-37 |

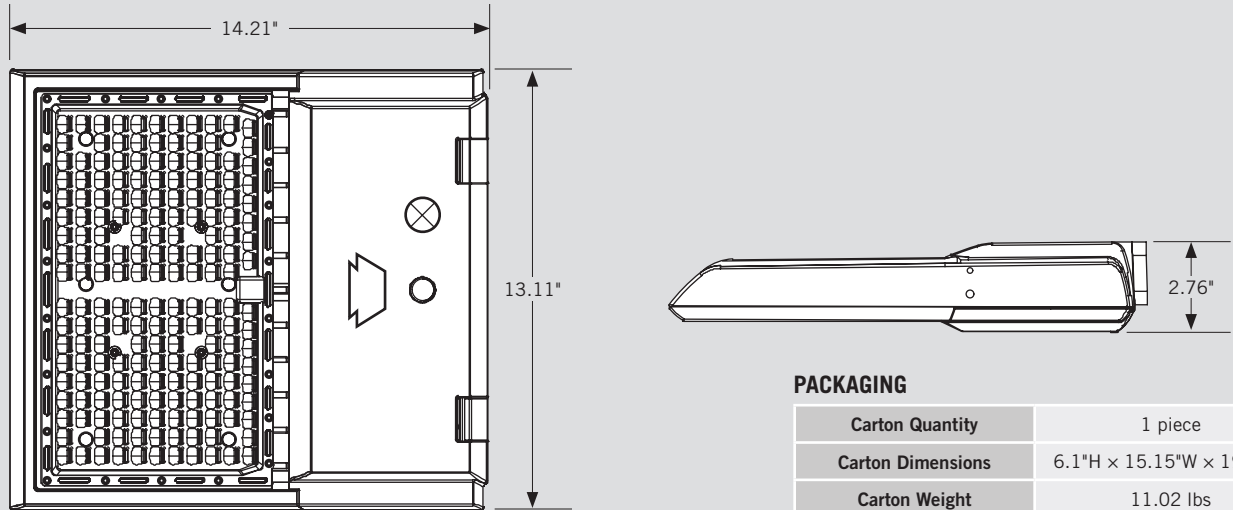


KT-ALED140-M1-X-NM-8XX-VDIM

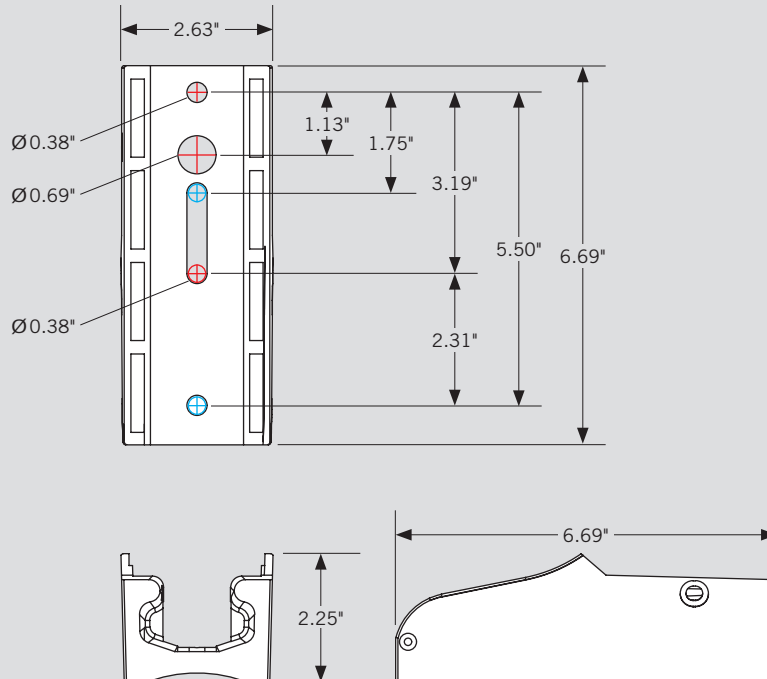
LED AREA LIGHT FIXTURES

PHYSICAL SPECIFICATIONS

LED AREA LIGHT FIXTURE



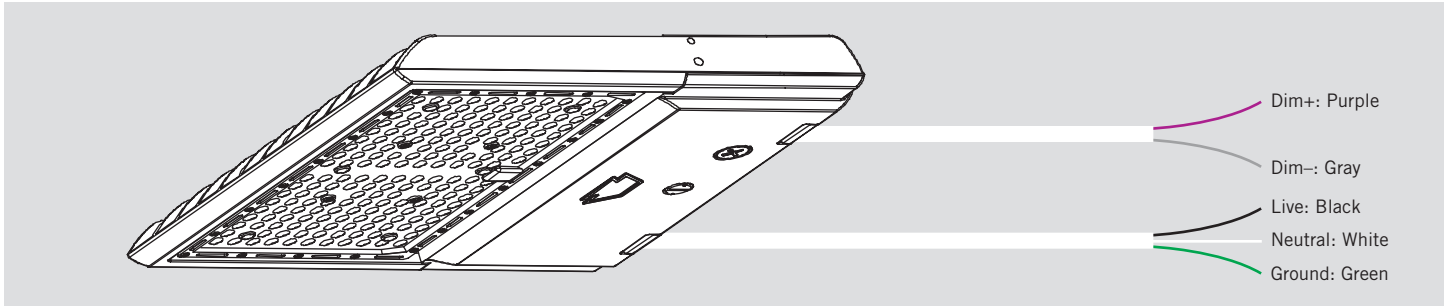
POLE MOUNT (ADJUSTABLE OR FIXED) DRILLING HOLES



KT-ALED140-M1-X-NM-8XX-VDIM

LED AREA LIGHT FIXTURES

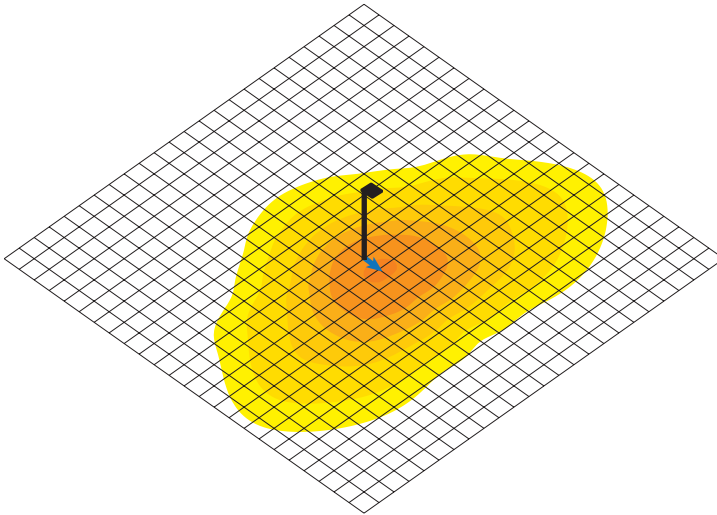
WIRING DIAGRAM



LIGHT DISTRIBUTION PATTERN

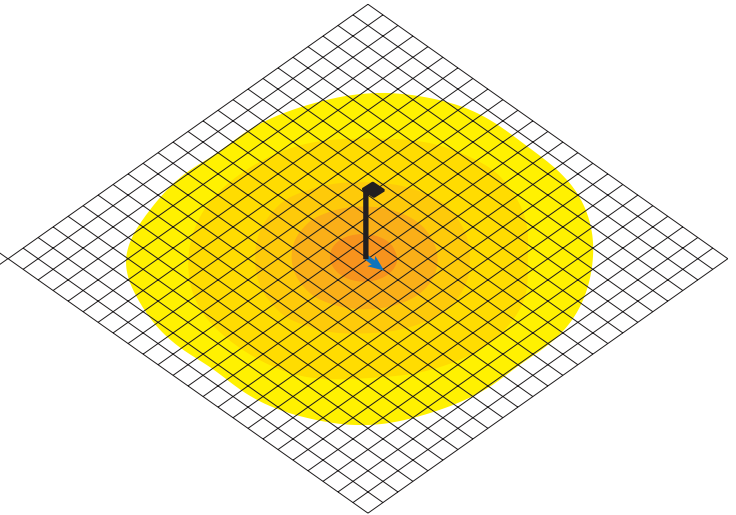
TYPE 3 (III)

Pole-mount view from above; Area light mounted at 30'

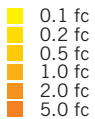


TYPE 5 (V)

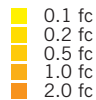
Pole-mount view from above; Area light mounted at 30'



- Photometric layout for general reference only
- Grid dimension: 10 × 10 sq ft



- Photometric layout for general reference only
- Grid dimension: 10 × 10 sq ft

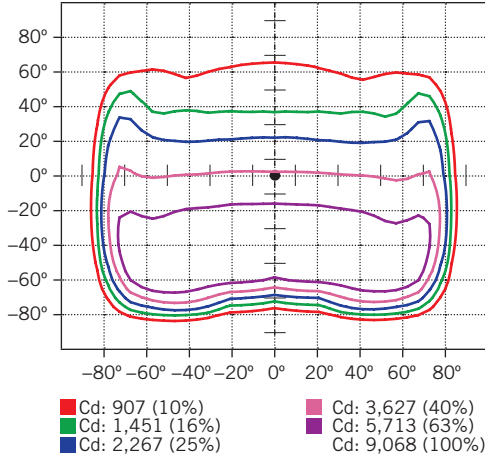


KT-ALED140-M1-X-NM-8XX-VDIM

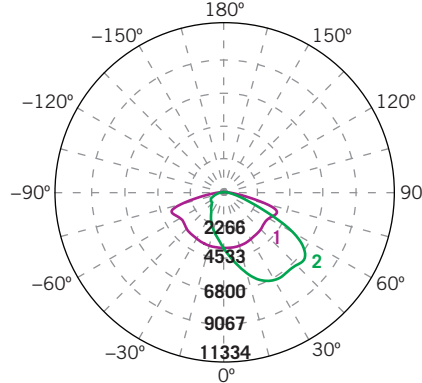
LED AREA LIGHT FIXTURES

PHOTOMETRIC SPECIFICATIONS (TYPE 3 [III])

ISOCANDELA PLOT



LUMINOUS INTENSITY DISTRIBUTION



Average diffuse angle (50%): **110.8°**

1 Violet C0-C180

2 Green C90-C270

Unit: cd

FLUX DISTRIBUTION

| Zone | Lumens | % Luminaire |
|----------------------|-----------|-------------|
| Forward Light | 15,114 lm | 77.8% |
| 0°-30° | 2,165 lm | 11.2% |
| 30°-60° | 7,491 lm | 38.6% |
| 60°-80° | 5,044 lm | 26.1% |
| 80°-90° | 414 lm | 2.1% |
| Back Light | 4,301 lm | 22.2% |
| 0°-30° | 1,151 lm | 5.9% |
| 30°-60° | 1,961 lm | 10.1% |
| 60°-80° | 1,090 lm | 5.6% |
| 80°-90° | 98 lm | 0.5% |
| Up Light | 0 lm | 0.0% |
| 90°-100° | 0 lm | 0.0% |
| 100°-180° | 0 lm | 0.0% |

BUG* Rating

Asymmetrical Luminaire Types

Type I, II, III, IV B3 U0 G3

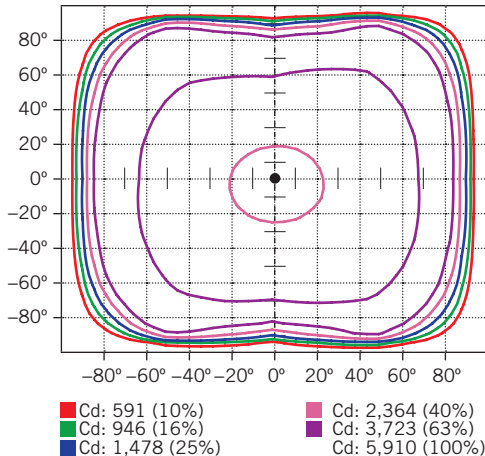
Quadrilateral Symmetrical Luminaire Types

Type V, Area Light B3 U0 G3

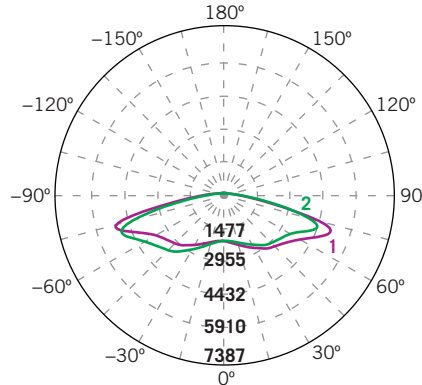
* Backlight, Uplight, Glare

PHOTOMETRIC SPECIFICATIONS (TYPE 5 [V])

ISOCANDELA PLOT



LUMINOUS INTENSITY DISTRIBUTION



Average diffuse angle (50%): **156.1°**

1 Violet C0-C180

2 Green C90-C270

Unit: cd

FLUX DISTRIBUTION

| Zone | Lumens | % Luminaire |
|----------------------|----------|-------------|
| Forward Light | 9,388 lm | 48.8% |
| 0°-30° | 987 lm | 5.1% |
| 30°-60° | 3,501 lm | 18.2% |
| 60°-80° | 4,167 lm | 21.6% |
| 80°-90° | 733 lm | 3.8% |
| Back Light | 9,862 lm | 51.2% |
| 0°-30° | 1,030 lm | 5.4% |
| 30°-60° | 3,813 lm | 19.8% |
| 60°-80° | 4,421 lm | 23.0% |
| 80°-90° | 598 lm | 3.1% |
| Up Light | 0 lm | 0.0% |
| 90°-100° | 0 lm | 0.0% |
| 100°-180° | 0 lm | 0.0% |

BUG* Rating

Asymmetrical Luminaire Types

Type I, II, III, IV B4 U0 G4

Quadrilateral Symmetrical Luminaire Types

Type II B4 U0 G4

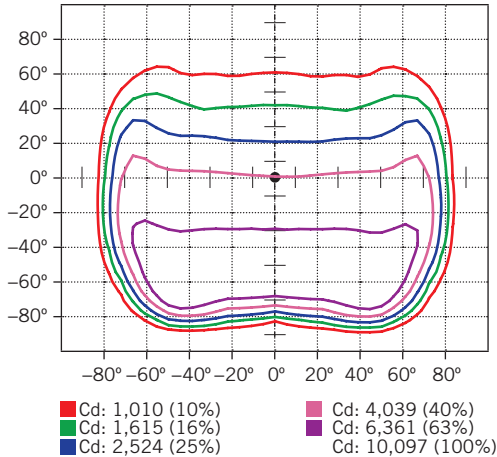
* Backlight, Uplight, Glare

KT-ALED140-M1-X-NM-8XX-VDIM

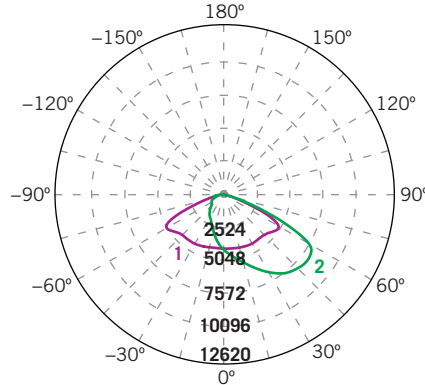
LED AREA LIGHT FIXTURES

PHOTOMETRIC SPECIFICATIONS (TYPE 4 [IV])

ISOCANDELA PLOT



LUMINOUS INTENSITY DISTRIBUTION



Average diffuse angle (50%): **102.7°**

1 Violet C0-C180

2 Green C90-C270

Unit: cd

FLUX DISTRIBUTION

| Zone | Lumens | % Luminaire |
|----------------------|-----------|-------------|
| Forward Light | 14,983 lm | 76.1% |
| 0°-30° | 2,124 lm | 10.8% |
| 30°-60° | 7,670 lm | 39.0% |
| 60°-80° | 4,963 lm | 25.2% |
| 80°-90° | 226 lm | 1.1% |
| Back Light | 4,707 lm | 23.9% |
| 0°-30° | 1,258 lm | 6.4% |
| 30°-60° | 2,314 lm | 11.8% |
| 60°-80° | 1,030 lm | 5.2% |
| 80°-90° | 105 lm | 0.5% |
| Up Light | 0 lm | 0.0% |
| 90°-100° | 0 lm | 0.0% |
| 100°-180° | 0 lm | 0.0% |

BUG* Rating

Asymmetrical Luminaire Types

Type I, II, III, IV B3 U0 G3

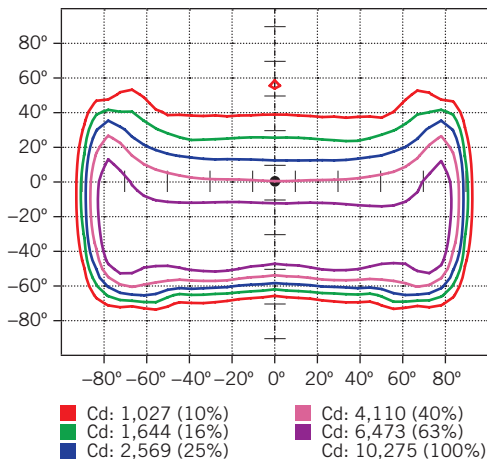
Quadrilateral Symmetrical Luminaire Types

Type V, Area Light B3 U0 G3

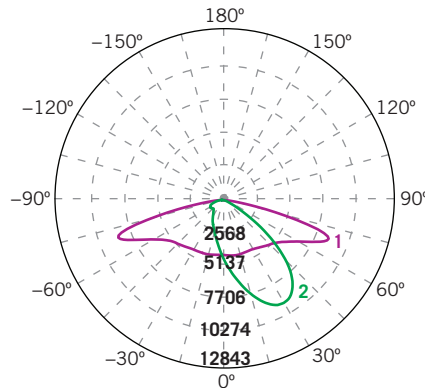
* Backlight, Uplight, Glare

PHOTOMETRIC SPECIFICATIONS (TYPE 2 [III])

ISOCANDELA PLOT



LUMINOUS INTENSITY DISTRIBUTION



Average diffuse angle (50%): **104.2°**

1 Violet C0-C180

2 Green C90-C270

Unit: cd

FLUX DISTRIBUTION

| Zone | Lumens | % Luminaire |
|----------------------|-----------|-------------|
| Forward Light | 15,217 lm | 77.4% |
| 0°-30° | 2,778 lm | 14.1% |
| 30°-60° | 8,524 lm | 43.3% |
| 60°-80° | 3,698 lm | 18.8% |
| 80°-90° | 217 lm | 1.1% |
| Back Light | 4,446 lm | 22.6% |
| 0°-30° | 1,126 lm | 5.7% |
| 30°-60° | 1,921 lm | 9.8% |
| 60°-80° | 1,318 lm | 6.7% |
| 80°-90° | 82 lm | 0.4% |
| Up Light | 0 lm | 0.0% |
| 90°-100° | 0 lm | 0.0% |
| 100°-180° | 0 lm | 0.0% |

BUG* Rating

Asymmetrical Luminaire Types

Type I, II, III, IV B3 U0 G3

Quadrilateral Symmetrical Luminaire Types

Type V, Area Light B3 U0 G2

* Backlight, Uplight, Glare














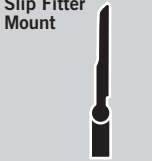
KT-ALED140-M1-X-NM-8XX-VDIM

LED AREA LIGHT FIXTURES

EPA SPECIFICATIONS

Medium-Size Fixture Housing

Conditions: Horizontal winds only for calculations. Worst case total projected area used for calculations. All drag coefficients are set as worst case 1.2.
For details on exact EPA calculations and assumptions, please contact productsupport@keystonetech.com

| EPA Calcs (1.2*ft ² View) | | Single Fixture | 2 Fixtures at 90° | 2 Fixtures at 180° | 3 Fixtures at 90° | 3 Fixtures at 120° | 4 Fixtures at 90° | 2 Fixtures Side-by-Side | 3 Fixtures Side-by-Side | 4 Fixtures Side-by-Side |
|---|------------------|---|---|---|---|---|---|---|---|---|
| Mounting Application | Fixture Position |  |  |  |  |  |  |  |  |  |
| Adjustable Pole Mount  | Horizontal | 0.50 sq. ft. | 0.78 sq. ft. | 1.01 sq. ft. | 1.19 sq. ft. | 1.28 sq. ft. | 1.19 sq. ft. | 0.74 sq. ft. | 1.11 sq. ft. | 1.48 sq. ft. |
| Adjustable Pole Mount  | 45° | 1.27 sq. ft. | 1.73 sq. ft. | 1.27 sq. ft. | 2.20 sq. ft. | 3.10 sq. ft. | 2.20 sq. ft. | 2.53 sq. ft. | 3.80 sq. ft. | 5.07 sq. ft. |
| Slip Fitter Mount  | Horizontal | 0.48 sq. ft. | 0.87 sq. ft. | 0.97 sq. ft. | 1.30 sq. ft. | 1.37 sq. ft. | 1.30 sq. ft. | 0.86 sq. ft. | 1.30 sq. ft. | 1.73 sq. ft. |
| Slip Fitter Mount  | 45° | 1.34 sq. ft. | 1.80 sq. ft. | 1.34 sq. ft. | 2.28 sq. ft. | 3.06 sq. ft. | 2.28 sq. ft. | 2.67 sq. ft. | 4.01 sq. ft. | 5.35 sq. ft. |
| Slip Fitter Mount  | Vertical | 1.76 sq. ft. | 2.25 sq. ft. | 1.76 sq. ft. | 2.73 sq. ft. | 2.94 sq. ft. | 2.73 sq. ft. | 3.53 sq. ft. | 5.29 sq. ft. | 7.06 sq. ft. |

KT-ALED140-M1-X-NM-8XX-VDIM

LED AREA LIGHT FIXTURES

ACCESSORIES (SOLD SEPARATELY)

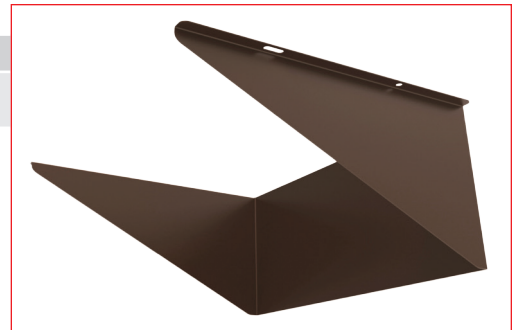
TWIST-LOCK AREA LIGHT CONTROL

| Catalog Number | Description | UPC | Easy Code |
|----------------|---|--------------|-----------|
| KT-TLP-UV-3PN | NEMA Type Twist-Lock 3-Pin Photocell 120-277V, 1800VA Max; Blue Housing | 843654131825 | NQT-46 |



GLARE SHIELD

| Catalog Number | Description | UPC | Easy Code |
|-------------------|--|--------------|-----------|
| KT-ALED-GS-M1-KIT | Reversible Glare Shield Kit; Medium (fits "M1" fixture bodies); Bronze Housing | 843654131801 | DHT-23 |



MICROWAVE OCCUPANCY SENSOR

| Catalog Number | Description | UPC | Easy Code |
|-----------------|--------------------------------|--------------|-----------|
| KTS-MW3-12V-PKO | 12V Microwave Occupancy Sensor | 843654130637 | TRM-32 |



REMOTE CONTROL

| Catalog Number | Description | UPC | Easy Code |
|-----------------------|---|--------------|-----------|
| KTS-MW3-REMOTECONTROL | Remote Control for KTS-MW3-12V-XX Sensors, Sets/adjusts all sensor performance parameters | 843654132020 | XSR-61 |





KT-ALED140-M1-X-NM-8XX-VDIM

LED AREA LIGHT FIXTURES

ORDERING INFORMATION

| ORDER CODE | PACK QTY. | UPC | Easy Code |
|-----------------------------|-----------|--------------|-----------|
| KT-ALED140-M1-3-NM-840-VDIM | 1 | 843654131405 | WCA-01 |
| KT-ALED140-M1-3-NM-850-VDIM | 1 | 843654131412 | BOS-17 |
| KT-ALED140-M1-5-NM-840-VDIM | 1 | 843654131429 | XWH-36 |
| KT-ALED140-M1-5-NM-850-VDIM | 1 | 843654131436 | VB-T79 |

CATALOG NUMBER BREAKDOWN

KT-ALED140-M1-X-NM-8XX-VDIM

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|

- 1 Keystone Technologies
- 2 Fixture Type
- 3 LED Technology
- 4 Wattage
- 5 Size/Shape
- 6 Style/Design Designation
- 7 Distribution Type
- 8 Mounting
- 9 CRI
- 10 Color Temp
- 11 Dimming
- 12 Housing Color
- 13 Options

2 Fixture Type

| | |
|---|------------|
| A | Area Light |
|---|------------|

7 Distribution Type

| | |
|---|--------------|
| 2 | Type 2 (II) |
| 3 | Type 3 (III) |
| 4 | Type 4 (IV) |
| 5 | Type 5 (V) |

11 Dimming

| | |
|------|-------|
| VDIM | 0-10V |
|------|-------|

5 Size/Shape

| | |
|---|--------|
| M | Medium |
|---|--------|

8 Mounting

| | |
|----|-------------|
| NM | No Mounting |
|----|-------------|

12 Housing Color

| | |
|-------|--------|
| Blank | Bronze |
| B | Black |
| W | White |

6 Style/Design Designation

| | |
|---|----------|
| 1 | Series 1 |
|---|----------|

9 CRI

| | |
|---|-----|
| 8 | >80 |
|---|-----|

13 Options

| | |
|-------|---|
| Blank | No Options |
| /7PRS | 7-Pin Receptacle and Shorting Cap installed |
| /MW3 | Factory-installed Microwave Sensor |

10 Color Temp

| | |
|----|-------|
| 40 | 4000K |
| 50 | 5000K |



KT-WPLED60-M2-8XX-VDIM

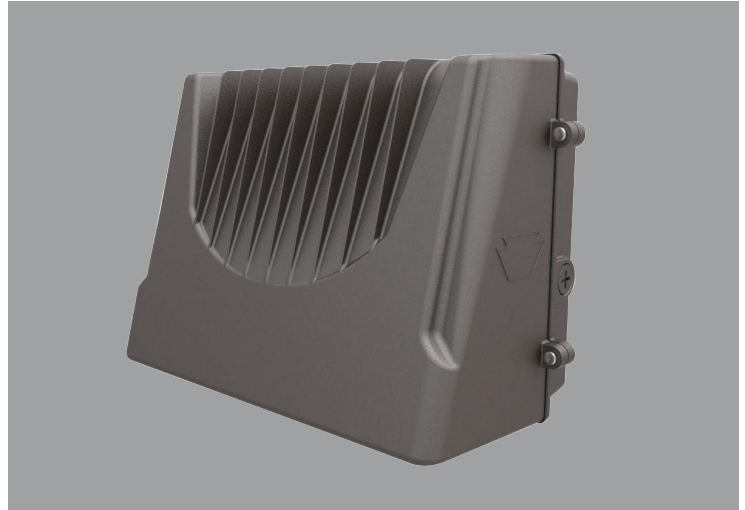
ARCHITECTURAL 60W FULL-CUTOFF LED WALL PACK

DESCRIPTION

Architectural 60W Full-Cutoff LED Wall Pack | 120–277V Input | 4000–5000K | Medium-Size Bronze Housing | Wide Optic Lens

APPLICATION

Building Mount for exterior illumination (perimeters, pathways, loading docks, and other general security lighting requirements)



PRODUCT FEATURES

- Architectural full-cutoff design improves the appearance of building exteriors and optimizes functional light distribution
- Heavy-duty, die-cast aluminum housing features modern aesthetics while retaining (5) available 1/2" threaded conduit hubs: (1) on back and (1) on all four sides
- Powered by Keystone 0–10V dimming LED drivers
- Dark Sky friendly performance, eliminates undesirable sky glow and glare
- Features one translucent 3/4" threaded plug with anti-yellowing agent for use with photocell accessory KT-WPLED-PS-UV-KO
- Precision-crafted optical lens provides wide distribution pattern ideal for increased fixture spacing and uniformity
- Covers footprint of mid-size HID wallpacks
- Ambient operating temperature: –20°C/–4°F to 45°C/113°F
- UL listed for wet locations, IP65
- 0–10V dimming, 10% min
- Power Factor: >0.95
- THD: <20%
- LED chip lifetime: L70 >100,000 hrs @ 25°C/77°F ambient fixture temp
- Meets FCC Part 15, Part B, Class A standards for conducted and radiated emissions

ELECTRICAL SPECIFICATIONS

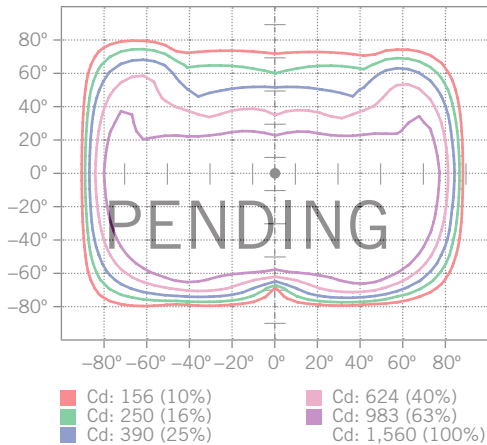
| Catalog Number | Wattage | Lumens | Lumens Below 90° | Dimming | CCT | Efficacy | CRI | Housing Color | Input Voltage | Rated Life | Legacy Equivalent |
|------------------------|---------|---------|------------------|---------|-------|----------|-----|---------------|---------------|------------|-------------------|
| KT-WPLED60-M2-840-VDIM | 60W | 7500 lm | 7445 lm | 0–10V | 4000K | 125 lm/W | >80 | Bronze | 120–277V | 50,000 hrs | 250W MH |
| KT-WPLED60-M2-850-VDIM | | 7800 lm | 7745 lm | | 5000K | 130 lm/W | | | | | |

KT-WPLED60-M2-8XX-VDIM

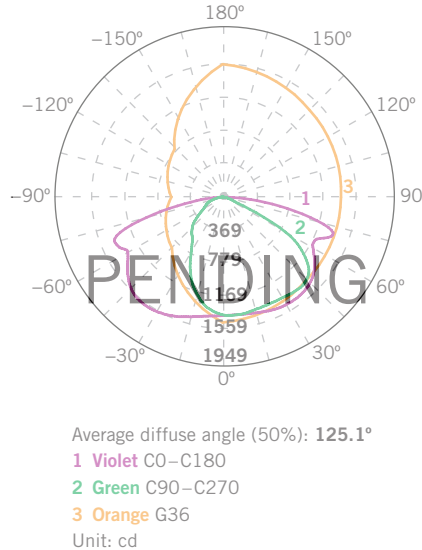
ARCHITECTURAL 60W FULL-CUTOFF LED WALL PACK

PHOTOMETRIC SPECIFICATIONS

ISOCANDELA PLOT



LUMINOUS INTENSITY DISTRIBUTION



FLUX DISTRIBUTION

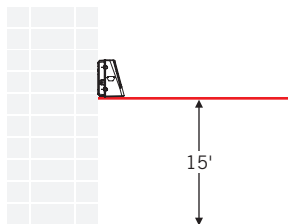
| Zone | Lumens | % Luminaire |
|---------------|----------|-------------|
| Forward Light | 3,171 lm | 62.0% |
| 0°-30° | 596 lm | 11.6% |
| 30°-60° | 1,594 lm | 31.2% |
| 60°-80° | 912 lm | 17.8% |
| 80°-90° | 70 lm | 1.4% |
| Back Light | 1,905 lm | 37.2% |
| 0°-30° | 514 lm | 10.1% |
| 30°-60° | 876 lm | 17.1% |
| 60°-80° | 460 lm | 9.0% |
| 80°-90° | 54 lm | 1.1% |
| Up Light | 39 lm | 0.8% |
| 90°-100° | 3 lm | 0.1% |
| 100°-180° | 36 lm | 0.7% |

| BUG* Rating | |
|---|----------|
| Asymmetrical Luminaire Types | |
| Type I, II, III, IV | B2 U2 G1 |
| Quadrilateral Symmetrical Luminaire Types | |
| Type V, Area Light | B2 U2 G1 |

* Backlight, Uplight, Glare

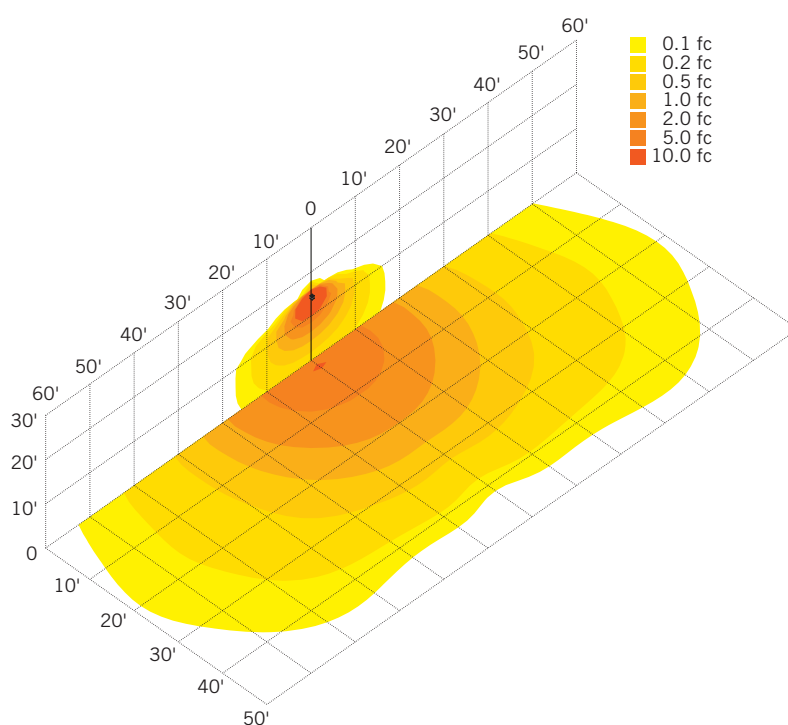
MOUNTING

Side view



LIGHT DISTRIBUTION PATTERN

Isometric view from above; Luminaire mounted at 15'

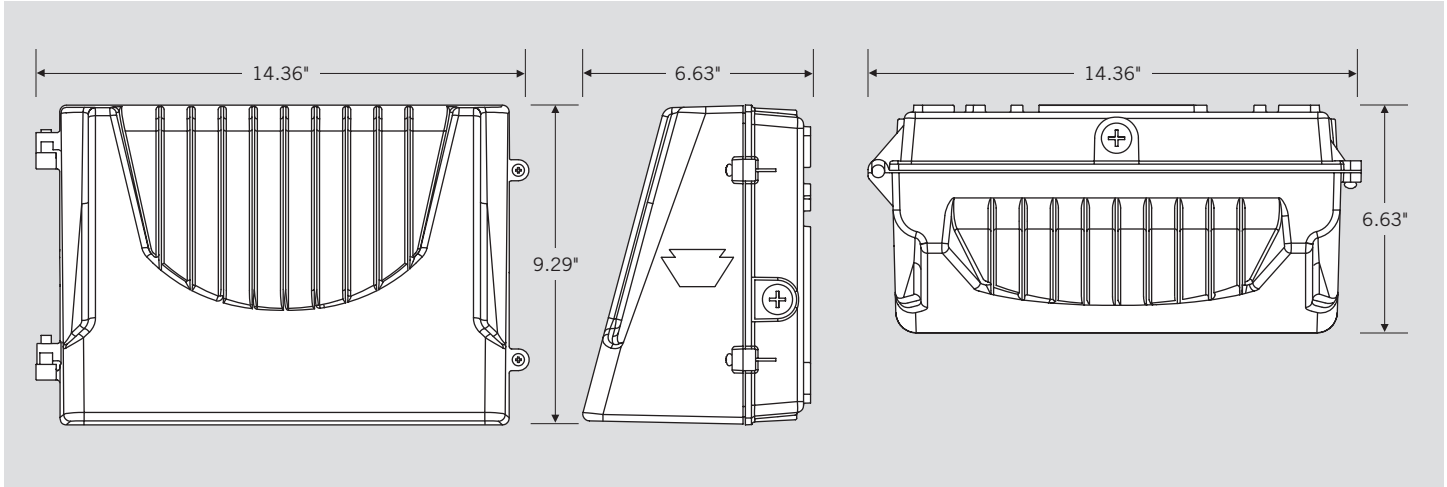




KT-WPLED60-M2-8XX-VDIM

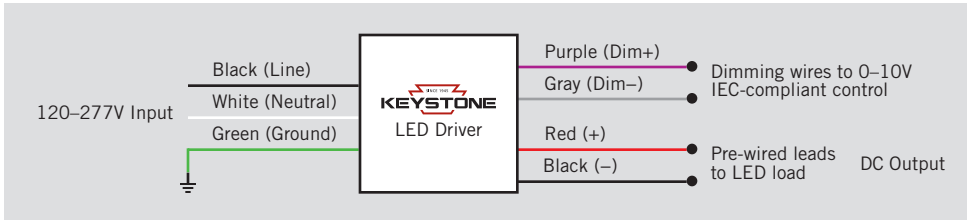
ARCHITECTURAL 60W FULL-CUTOFF LED WALL PACK

PHYSICAL SPECIFICATIONS



GENERAL SETUP INSTRUCTIONS

GENERAL WIRING DIAGRAM



Caution: Before installing, make certain that AC power to the fixture is off.

Caution: The electrical rating of this product is 120–277V. Installer must confirm that there is 120–277V at the fixture before installation.

ACCESSORIES (SOLD SEPARATELY)

| Catalog Number | Description |
|-------------------|---|
| KTSP-10KV-C | Wallpack 10kV Surge Protector, Compact Design |
| KT-WPLED-PS-UV-KO | Keystone Wall Pack Button Photocell |



KT-WPLED60-M2-8XX-VDIM

ARCHITECTURAL 60W FULL-CUTOFF LED WALL PACK

ORDERING INFORMATION

| ORDER CODE | PACK QTY. | ITEM STATUS |
|------------------------|-----------|-------------|
| KT-WPLED60-M2-840-VDIM | 1 | Quick Ship |
| KT-WPLED60-M2-850-VDIM | 1 | Quick Ship |

CATALOG NUMBER BREAKDOWN

KT-WPLED60-M2-8XX-VDIM

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|

1 Keystone Technologies

2 Fixture Type

3 LED Lamp

4 Max Wattage

5 Size

6 Style

7 CRI

8 Color

9 Dimming

2 Fixture Type

| | |
|----|----------|
| F | Flood |
| WP | Wallpack |

5 Size

| | |
|---|--------|
| S | Small |
| M | Medium |
| L | Large |

6 Style

| | |
|---|-------------|
| 1 | Non-Cutoff |
| 2 | Full-Cutoff |

7 CRI



| | |
|---|-----|
| 8 | >80 |
| 9 | >90 |

8 Color

| | |
|----|-------|
| 40 | 4000K |
| 50 | 5000K |

9 Dimming

| | |
|------|-------|
| VDIM | 0-10V |
|------|-------|

| Luminaire Schedule | | | | | | |
|---|-----|--------------------------------|----------------|-------------------|-------|--------------------------------------|
| Symbol | Qty | Label | Arrangement | Total Lamp Lumens | LLF | Description |
|  | 3 | KT-WPLED60-M2-840-VDIM | Single | 7267.4 | 0.900 | 60W Full Cut Off - Modified to 5K |
|  | 3 | KT-ALED140-M1-4-NM-840-VDIM-2L | 2 @ 90 degrees | 19667.6 | 0.900 | 140W Type 4 Area Light - 2 90 Degree |

| Calculation Summary | | | | | | | |
|---------------------|-------------|-------|------|-----|-----|---------|---------|
| Label | CalcType | Units | Avg | Max | Min | Avg/Min | Max/Min |
| CalcPts 1 | Illuminance | Fc | 4.97 | 19 | 0 | N.A. | N.A. |

| Luminaire Location Summary | | | | | | | |
|----------------------------|--------------------------------|-----------------|-----|-------|-----------------|--------|------|
| LumNo | Label | Insertion Point | X | Y | Mounting Height | Orient | Tilt |
| 1 | KT-ALED140-M1-4-NM-840-VDIM-2L | | 275 | 313 | 20 | 225 | 0 |
| 2 | KT-ALED140-M1-4-NM-840-VDIM-2L | | 161 | 307 | 20 | 315 | 0 |
| 3 | KT-ALED140-M1-4-NM-840-VDIM-2L | | 163 | 197 | 20 | 45 | 0 |
| 4 | KT-WPLED60-M2-840-VDIM | | 204 | 229.5 | 12 | 270 | 0 |
| 5 | KT-WPLED60-M2-840-VDIM | | 263 | 229.5 | 12 | 270 | 0 |
| 6 | KT-WPLED60-M2-840-VDIM | | 233 | 229.5 | 12 | 270 | 0 |



Project : NorthEast Dover
KT-ALED140-M1-4 , MH is 20'
KT-WPLED60-M2 , MH is 12'

Keystone Technologies Lighting Layout
2750 Morris Road
Lansdale, PA 19446
Phone 1-800-464-2680
Email: LightingLayouts@keystonetech.com



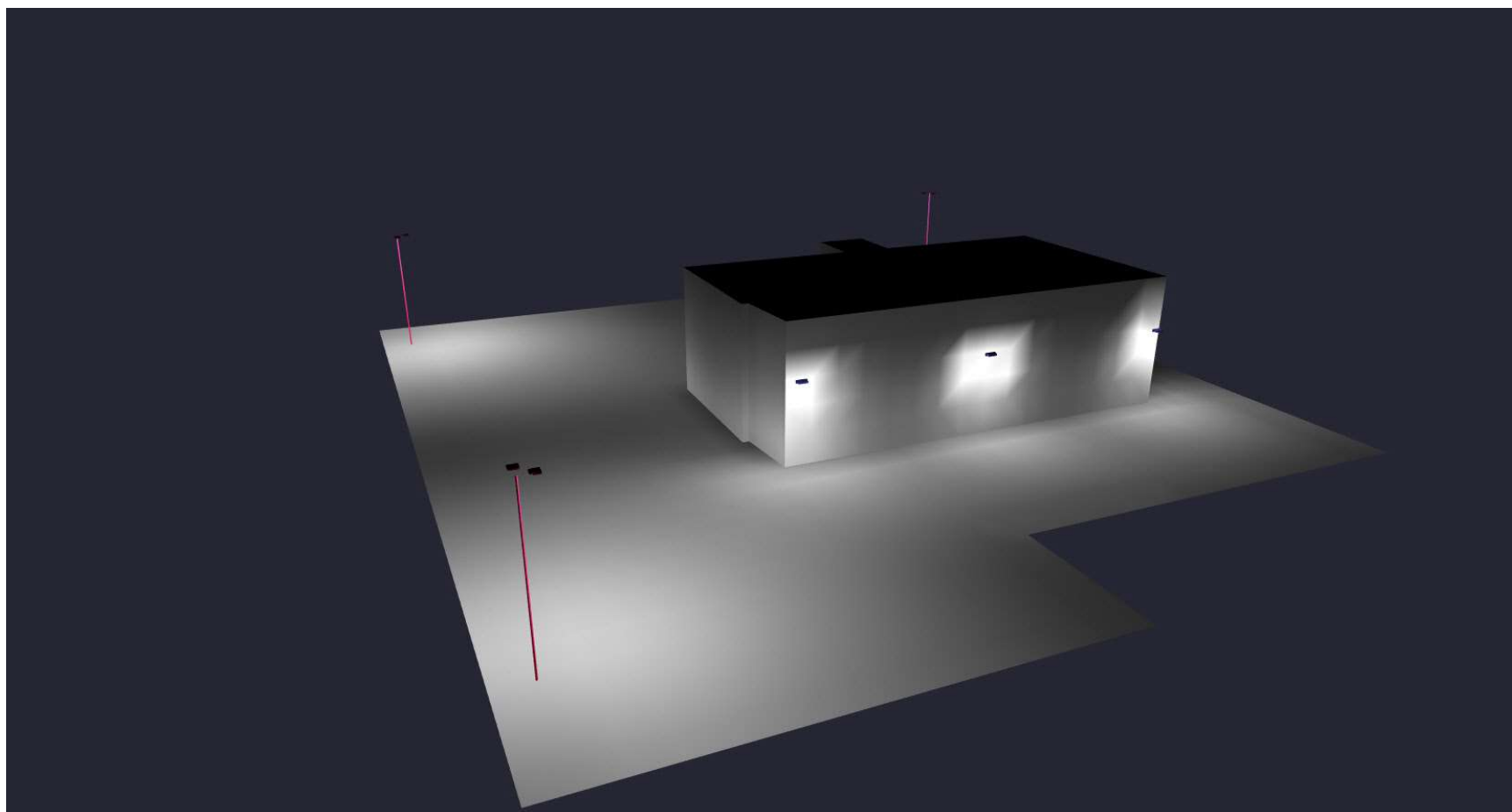


View of point by point

Project : NorthEast Dover
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 KT-WPLED60-M2 , MH is 12'
 RED = 8+ FC, BLUE = 4 FC
 GREEN = 2 FC , VIOLET = 1 FC

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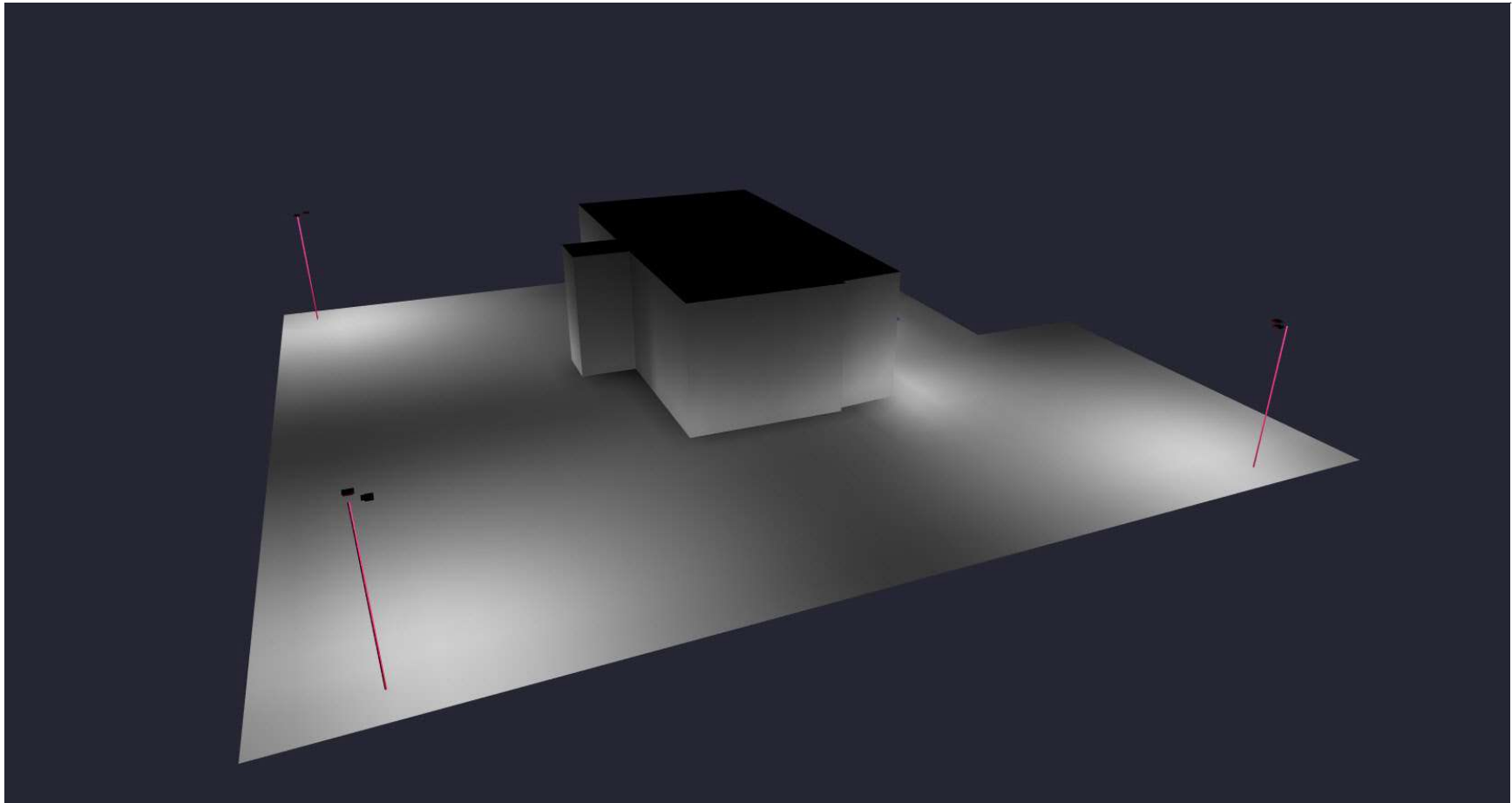


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Thank you for allowing Keystone Technologies the opportunity to create and provide this Lighting Layout report.

Illumination results shown on this lighting design are based on project parametrics provided to Keystone used in conjunction with luminaire photometric testing conducted under laboratory conditions. Actual project conditions differing from these design parameters may affect field results, such as (but not limited to) windows, furnishings, floor/ceiling/wall surface texture reflectivity, site cleanliness, and lighting component tolerances. Illumination results shown have not been field verified by Keystone and therefore the actual measured results may vary from actual field conditions.

The customer is responsible for verifying dimensional accuracy along with compliance with any applicable electrical, lighting, or energy code. In no event will Keystone Technologies be held responsible for any loss resulting from any use of this lighting design.

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