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

APRIL 26, 2022

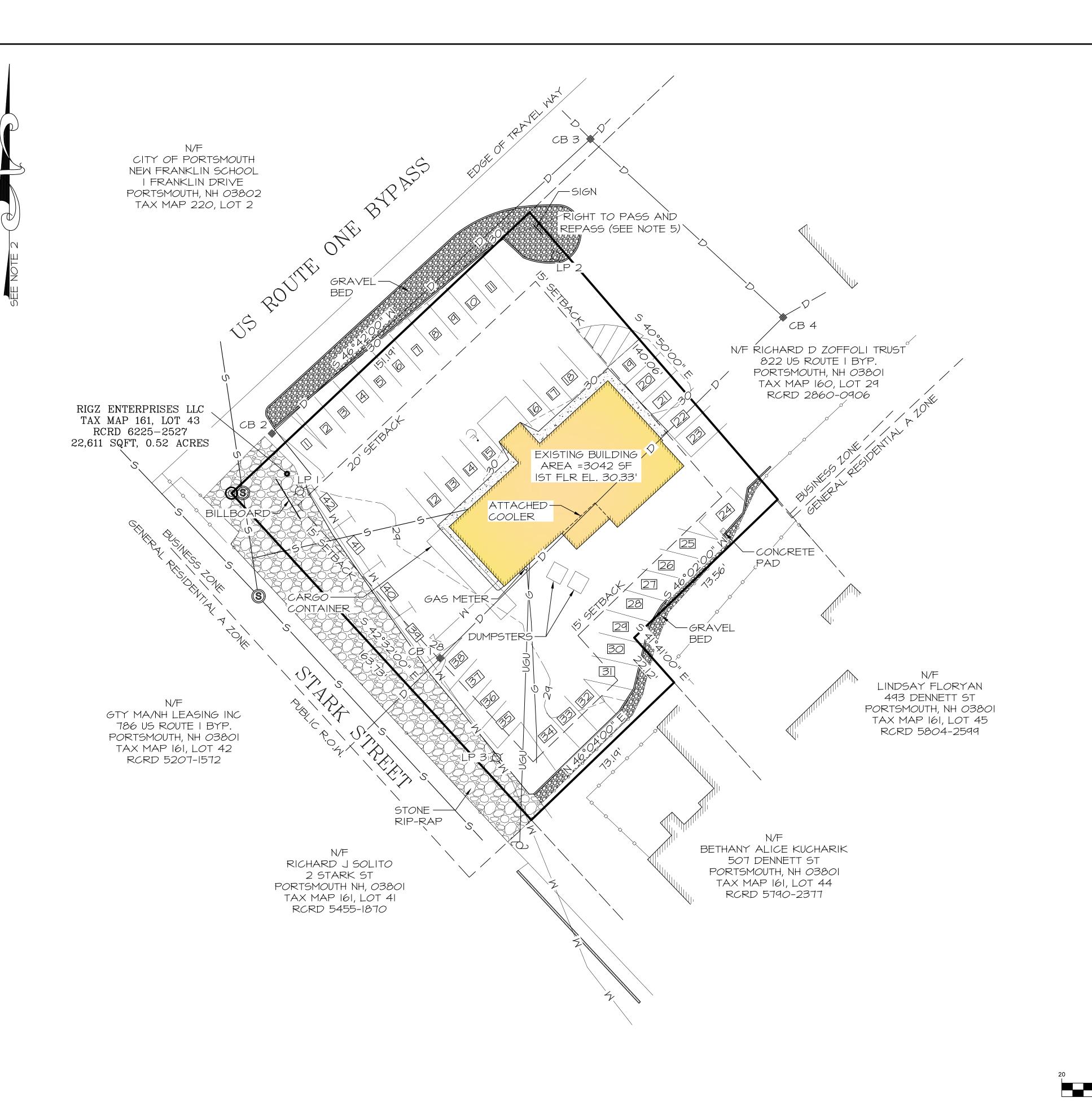
LIST OF PROJECT PLANS:

STRUCTURAL PLAN SET

- **Existing Elevations**
- Proposed Elevations
- Existing Floor Plan Proposed Floor Plan
- Foundation Plan
- Roof Framing Plan & Section 7 - Notes

SITE PLAN SET

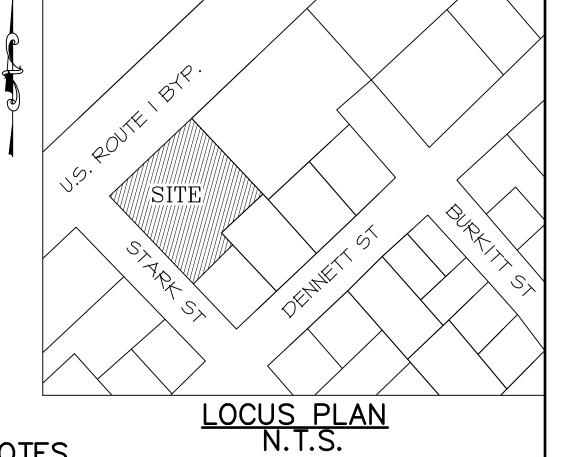
- **Existing Conditions Plan**
- Site Plan
- Utility Plan
- Landscape Plan
- Notes & Details



LEGEND

MONUMENT FOUND 6' STOCKADE FENCE VERTICAL GRANITE CURB 6' CHAIN LINK FENCE UTILITY POLE

> CATCH BASIN WATER VALVE \bowtie



EXISTING STRUCTURES CATCH BASIN

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

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

NOTES

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

> TAX MAP 161, LOT 43 806 US ROUTE | BYPASS PORTSMOUTH, NH 03801 RCRD: 6225-2527 AREA: 22,611 SF, 0.52 ACRES

3) PARCEL IS IN BUSINESS ZONE (B):

2) BASIS OF BEARING HELD FROM PLAN REFERENCE #1

MINIMUM LOT AREA	20,000 SF
MIN. LOT AREA PER DWELL	_ING UNIT2,500 SF
MINIMUM FRONTAGE	IOO FT
MINIMUM DEPTH	80 FT
SETBACKS:	
FRONT	20 FT
SIDE	15 FT
REAR	15 FT
MAXIMUM BUILDING HEIGHT	50 FT
MAXIMUM BUILDING COVER	AGE35%
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.

3	4/26/2022	FOR TAC	
2	4/19/2022	FOR TAC	
1	4/5/2022	FOR TAC	
122.	DATE	DESCRIPTION OF ISSUE	
SCA	1" = 20'		
CHE	CKED A.ROSS		
DRA	I.C.A.		
CHE	CKED		

ROSS ENGINEERING, LLC

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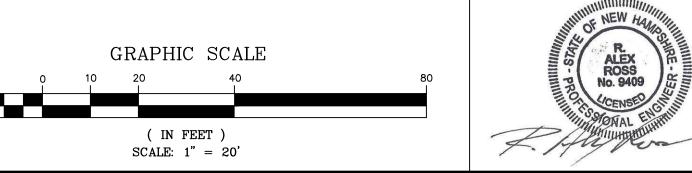
RIGZ ENTERPRISES LLC 18 DIXON LANE DERRY, NH 03038

CONDITIONS PLAN

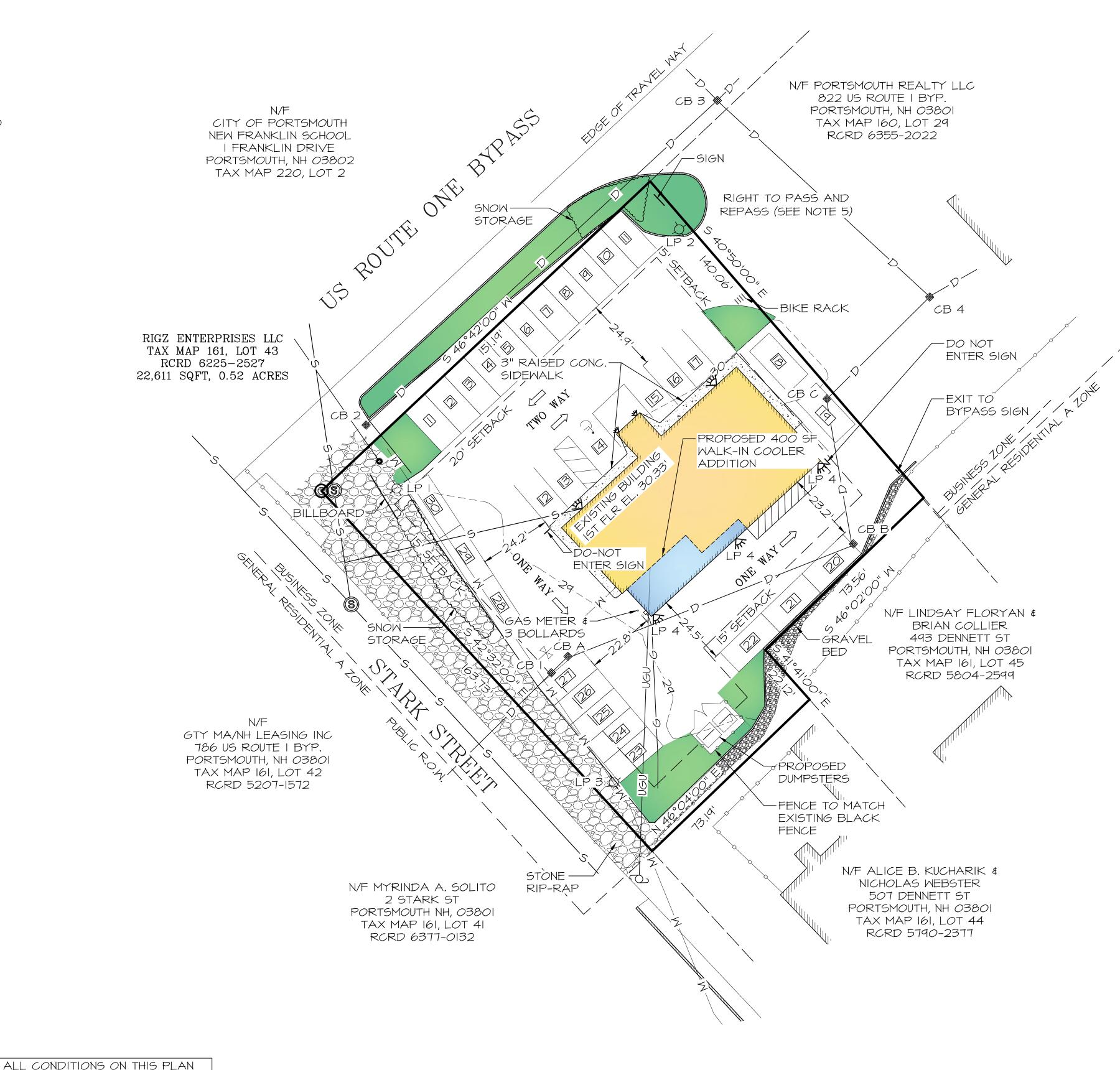
806 US-1 BYP. PORTSMOUTH, NH 03801 TAX MAP 161, LOT 43

EXISTING

JDB NUMBER DWG. N□. 21-072 | 1 OF 5 | 2







SHALL REMAIN IN EFFECT IN PERPETUITY PURSUANT TO THE

REQUIREMENTS OF THE SITE PLAN

REVIEW REGULATIONS.

GRAPHIC SCALE

0 10 20 40 80

(IN FEET)

SCALE: 1" = 20'

NOTES

I) OWNER OF RECORD: RIGZ ENTERPRISES I8 DIXON LANE DERRY, NH 03038

> TAX MAP 161, LOT 43 806 US ROUTE | BYPASS PORTSMOUTH, NH 03801 RCRD: 6225-2527 AREA: 22,611 SF, 0.52 ACRES

2) PARCEL IS IN BUSINESS ZONE (B):

MINIMUM LOT AREA. .20,000 SF ..2,500 SF MIN. LOT AREA PER DWELLING UNIT MINIMUM FRONTAGE. ..100 FT MINIMUM DEPTH80 FT SETBACKS: FRONT. ..20 FT SIDE. ..15 FT REAR. ..15 FT MAXIMUM BUILDING HEIGHT. ..50 FT ..35% MAXIMUM BUILDING COVERAGE. 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%

<u>OPEN SPACE</u> EXISTING OPEN SPACE

..3,442 SF

..455 SF

PROPOSED OPEN SPACE
BUILDING COVERAGE......
CONCRETE SIDEWALK......
PARKING LOT.....

4) PARKING SPACES:

AS PER PORTSMOUTH ZONING ORDINANCE IO.III2.32I, PARKING SPACES FOR RETAIL USE SHALL BE I SPACE PER 300 SF GROSS FLOOR AREA.

3,442 SF / 300 SF/SPACE = II.47 = I2 SPACES I2 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.

LEGEND

0

MONUMENT FOUND

6' STOCKADE FENCE

VERTICAL GRANITE CURB

____ 6' CHAIN LINK FENCE

UTILITY POLE

CATCH BASIN

MATER VALVE

) SEWER MANHOLE

LAMP POST

—UGU— UNDERGROUND UTILITIES

GAS LINE

-D- DRAIN LINE

– W – WATER LINE

-S- SEWER LINE

€ LIGHT

WAIVERS

--G-

I) A WAIVER IS REQUESTED FROM THE CITY OF PORTSMOUTH SITE PLAN REVIEW REGULATIONS SECTION 7.4, TO NOT PROVIDE A STROMWATER MANAGEMENT PLAN AS THE IMPERVIOUS COVER IS PROPOSED TO BE REDUCED.

SC A	F	_	
ISS.	DATE	DESCRIPTION OF ISSUE	
1	4/5/2022	FOR TAC	
2	4/19/2022	FOR TAC	
3	4/26/2022	FOR TAC	

 $\begin{array}{ccc}
\text{SCALE} & 1" = 20' \\
\text{CHECKED} & A.ROSS \\
\hline
\text{DRAWN} & D.D.D.
\end{array}$

CHECKED CHECKED

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

RIGZ ENTERPRISES LLC 18 DIXON LANE DERRY, NH 03038

TITLE

CITY OF PORTSMOUTH PLANNING BOARD

CHAIRPERSON

ROSS No. 9409 WCENSED CHILLIANS ON AL ENTRING

DATE

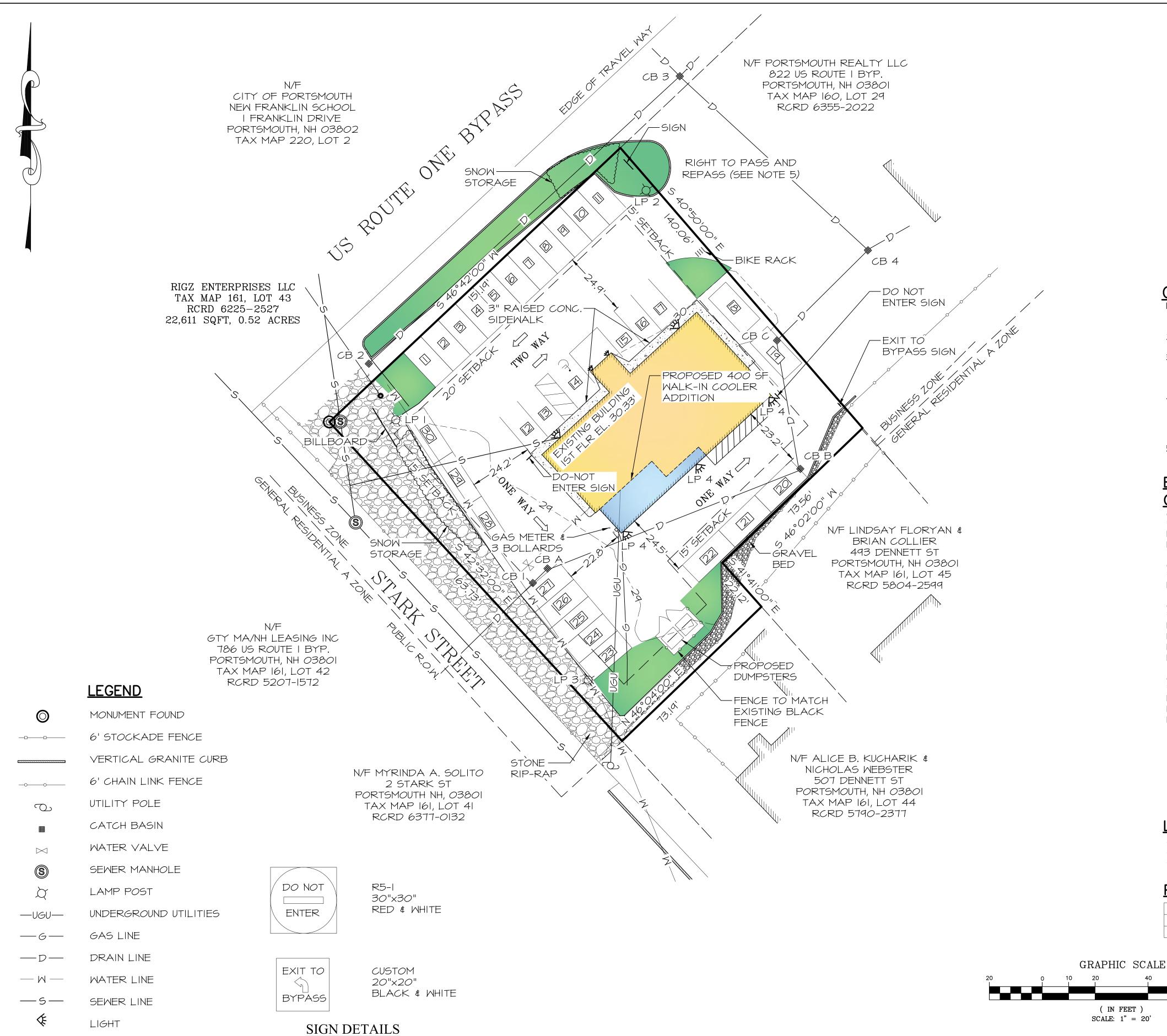


SITE PLAN

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

 JUMBER
 DWG. ND.
 ISSUE

 21-072
 2 OF 5
 2



UTILITIES:

CONTACT LIST GAS: UNITIL: 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 BASINS I & 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".

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.

GENERAL NOTES

- I) CONTRACTOR TO REVIEW ALL SURFACING TYPES, AND MATERIAL SPECIFICATIONS WITH COMMISSIONER OF PUBLIC WORKS.
- 2) ALL NECESSARY NHDOT, NHDES & TOWN PERMITS MUST BE OBTAINED.
- 3) ALL CONSTRUCTION SHALL BE PER NH-DOT, STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION. LATEST REVISION.
- 4) 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.
- 5) SIZE ALL LINES AS PER REQUIREMENTS AND ASSURE THAT PROPOSED HOUSE LOADING AND PRESSURE DEMANDS WILL BE MET.

EXISTING STRUCTURES PROPOSED STRUCTURES

CATCH BASIN **CATCH BASIN**

CB A RIM EL. 27.49 RIM EL. INV. IN 20.82 INV. IN 21.86 (±20" PIPE) SW INV. OUT 20.75 INV. OUT 20.91 (±20" PIPE) NE

STRUCTURE: CONCRETE BASIN - DIAMETER TO MATCH CB | (MIN 4' Ø) CB 2

RIM EL. 29.46 INV. OUT 25.81 (12" CMP) CB B RIM EL. INV. IN 19.72 CB 3

RIM EL. 29.27 INV. OUT 19.60 STRUCTURE: CONCRETE BASIN - DIAMETER TO INV. IN 23.83 (12" CMP) SW MATCH CB I (MIN 4' Ø) INV. IN 22.72 (12" CMP) NE INV. IN 22.68 (±20") NW

INV. OUT 22.62 (±20") SE CB C RIM EL. CB 4 INV. IN 19.15

RIM EL. 30.48 INV. OUT 18.91 INV. IN 18.20 (±20") SM STRUCTURE: CONCRETE BASIN - DIAMETER TO INV. IN 18.20 (±20") NW MATCH CB I (MIN 4' Ø)

THE EXISTING LINE EXITING CB | 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

LIGHT POLE HEIGHTS

INV. OUT 18.15 (±20") NE

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

PROPOSED LIGHTING

DESCRIPTION	CATALOG NUMBER	QUANTITY
MALL LIGHT (LP4)	KT-WPLED60-M2-8XX-VDIM	3
LIGHT POLE (LPI-LP3)	KT-ALEDI40-MI-X-NM-8XX-VDIM	3

1	4/5/2022	FOR TAC
IS	S. DATE	DESCRIPTION OF ISSUE
SC	1" = 20'	,
CH	ECKED A BOCC	

FOR TAC

FOR TAC

A.ROSS DRAWN D.D.D. CHECKED

3 4/26/2022

2 4/19/2022

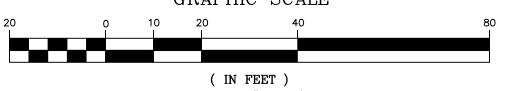
ROSS ENGINEERING, LLC Civil/Structural Engineering & Surveying 909 Islington St. Portsmouth, NH 03801 (603) 433-7560

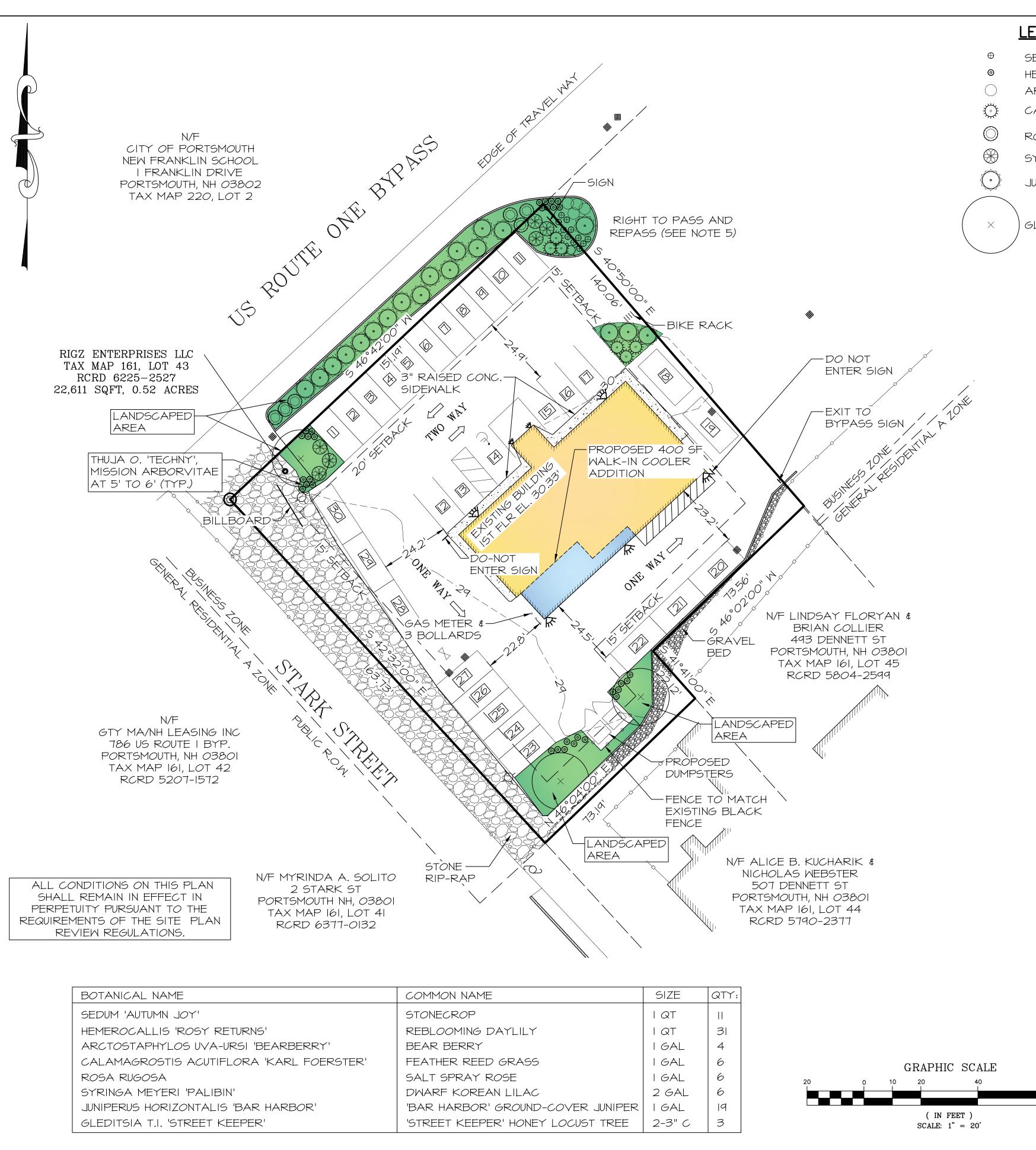
RIGZ ENTERPRISES LLC 18 DIXON LANE DERRY, NH 03038

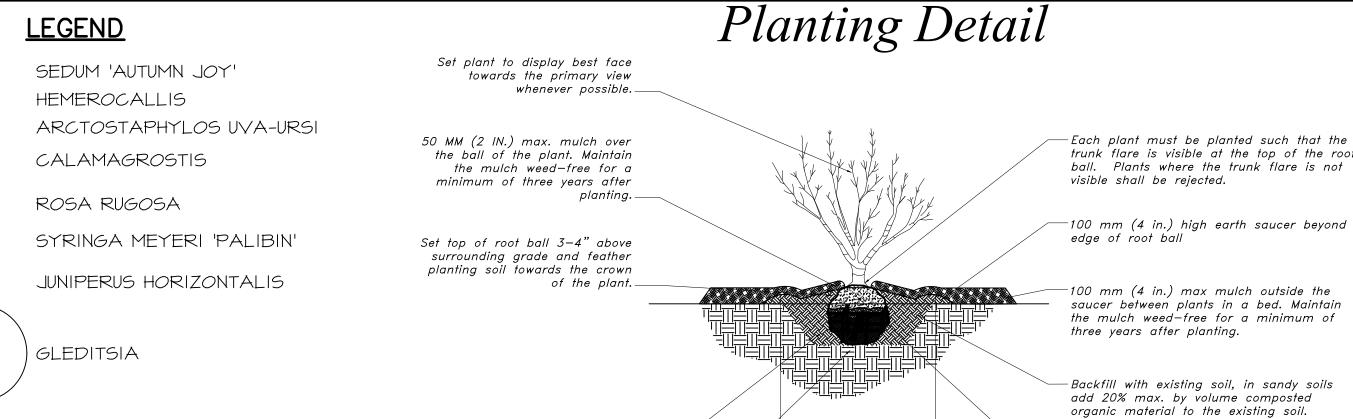
UTILITY PLAN

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

21-072 | 3 OF 5 | 2







Tamp soil around root ball base firmly with foot pressure so that

Place root ball on unexcavated

NOTES

I) THIS SITE PLAN SHALL BE RECORDED IN THE

2) ALL IMPROVEMENTS SHOWN ON THIS SITE

MADE TO THIS SITE PLAN WITHOUT THE

I. THE INSTALLATION OF A DRIP IRRIGATION

2. IN CASE OF DROUGHT (DEFINED AS TWO

WEEK PERIOD WITHOUT RAIN) ALL NEW

PLANTS SHALL BE WATERED THROUGH

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

3. SOAKER HOSES WOUND THROUGH THE BED

RECOMMENDED METHOD OF WATERING

PLANTS ARE ESTABLISHED.

NEAR THE BASE OF EACH PLANT ARE THE

DURING THE FIRST SEASON. THESE CA BE

REMOVED AFTER NOVEMBER 30TH WHEN THE

SYSTEM IS RECOMMENDED TO ASSURE WELL

NOVEMBER IST DURING THE FIRST SEASON IN

WATERED ONE TIME PER DAY FOR THE FIRST

WHICH THE ARE INSTALLED. THEY SHALL BE

PLANNING DIRECTOR.

GROWN PLANTS.

MATERING.

INSTALLATION REQUIREMENTS:

PLAN SHALL BE CONSTRUCTED AND

ROCKINGHAM COUNTY REGISTRY OF DEEDS.

MAINTAINED IN ACCORDANCE WITH THE PLAN

BY THE PROPERTY OWNER AND ALL FUTURE

PROPERTY OWNERS. NO CHANGES SHALL BE

EXPRESS APPROVAL OF THE PORTSMOUTH

root ball does not shift.—

PLANTING NOTES

2 times the diameter of

- I. ALL PLANT MATERIALS SHALL BE FIRST QUALITY NURSERY GROWN STOCK.
- 2. ALL PLANTS SHALL BE PLANTED IN ACCORDANCE WITH NEW HAMPSHIRE LANDSCAPE ASSOCIATION STANDARDS AND GUARANTEED FOR ONE YEAR BY THE LANDSCAPE CONTRACTOR.
- 3. AFTER PLANTING, ALL PLANTS SHALL BE FLOODED AT THE BASE WITH WATER FROM A SLOW-RUNNING HOSE FOR 5 MINUTES EACH.
- 4. ALL PLANTS SHALL BE INSTALLED BEFORE ANY GRASS IS
- 5. 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.
- 6. THE PROPERTY OWNER AND ALL FUTURE PROPERTY OWNERS SHALL BE RESPONSIBLE FOR THE MAINTENANCE, REPAIR, AND REPLACEMENT OF ALL REQUIRED SCREENING AND LANDSCAPE MATERIALS.
- 7. 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.
- 8. 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.

LEGEND

MONUMENT FOUND
6' STOCKADE FENCE

______VERTICAL GRANITE CURB

6' CHAIN LINK FENCE
UTILITY POLE

■ CATCH BASIN

SEWER MANHOLE

WATER VALVE

3	4/26/2022	FOR TAC
2	4/19/2022	FOR TAC
1	4/5/2022	FOR TAC
ISS.	DATE	DESCRIPTION OF ISSUE
SCA	LE 1" = 20'	

Remove all twine, rope, wire, and burlap

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

LANDSCAPE PLAN 806 US-1 BYP.

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

DB NUMBER DWG. ND. ISSUE 21-072 4 0F 5 2

CITY OF PORTSMOUTH PLANNING BOARD

CHAIRPERSON DATE

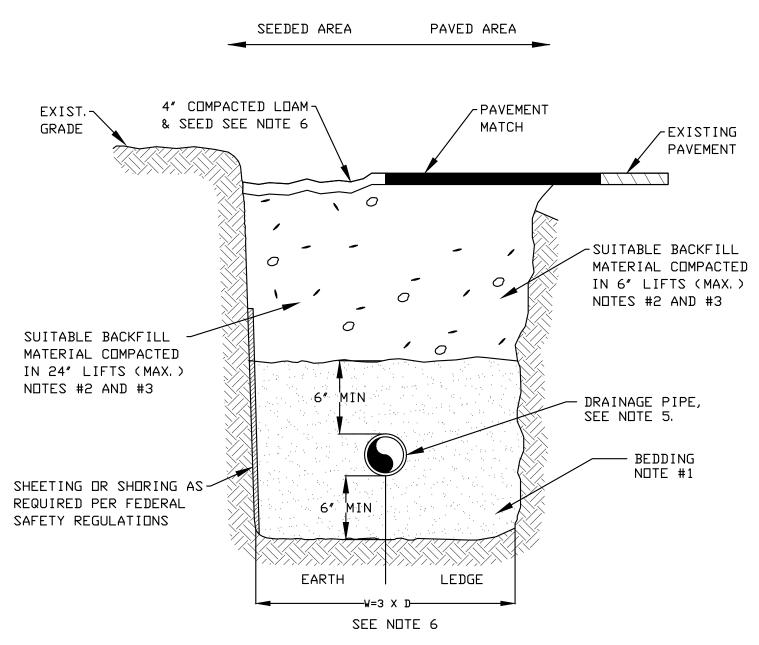


TRENCH NOTES - STORM DRAIN:

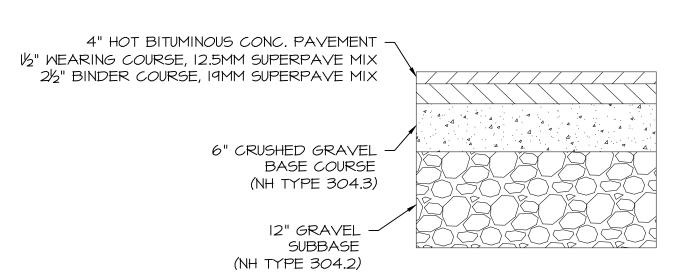
- 1) BEDDING: BEDDING FOR PIPES SHALL CONSIST OF PREPARING THE BOTTOM OF THE TRENCH TO SUPPORT THE ENTIRE LENGTH OF THE PIPE AT A UNIFORM SLOPE AND ALIGNMENT, CRUSHED STONE SHALL BE USED TO BED THE PIPE TO THE ELEVATION SHOWN ON THE DRAWINGS. NORMAL PIPE BEDDING IS CRUSHED STONE TO THE HAUNCH OF THE 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 COZMPACTED TO NOT LESS THAN 95 PERCENT OF AASHTO T99, METHOD C.
- 3) <u>SUITABLE MATERIAL</u>: 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) <u>DRAINAGE PIPE</u>: 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.



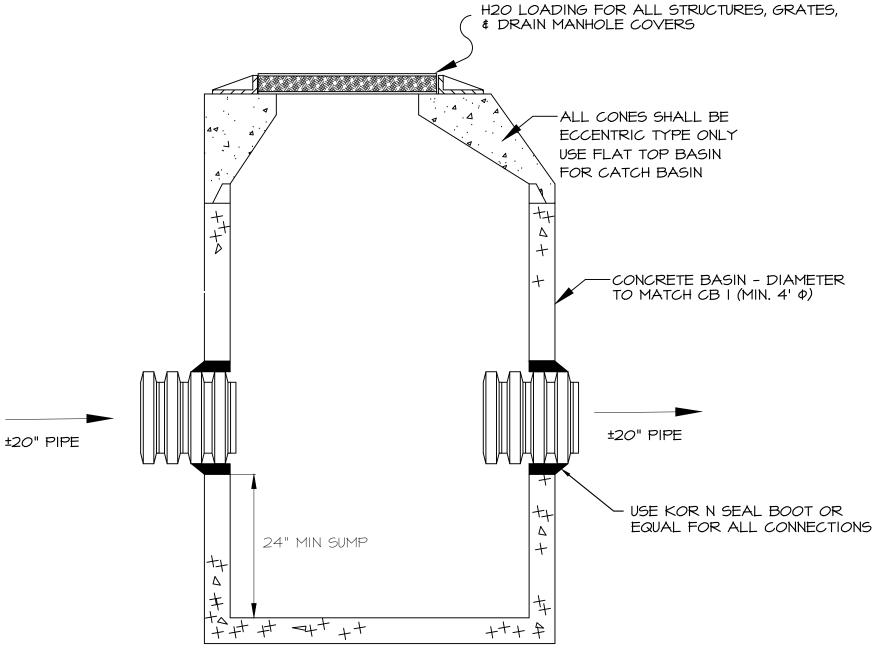
TRENCH DETAIL-STORM DRAIN



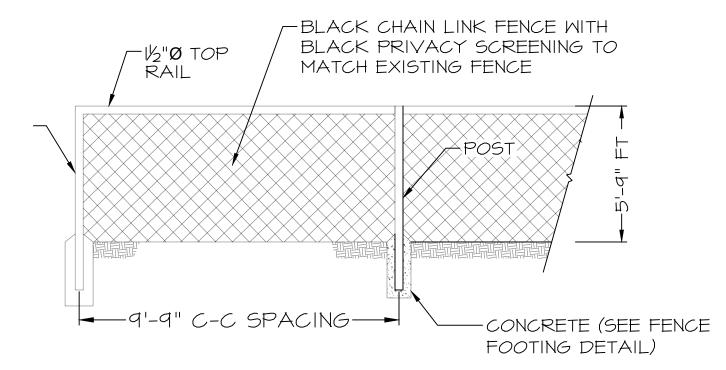
ASPHALT PAVEMENT DETAIL

-6"Ø - 10' LONG GALVANIZED STEEL PIPE, FILLED WITH 3,000 PSI CONCRETE 3'x3'x5' - 3,000 PSI CONCRETE FOOTING

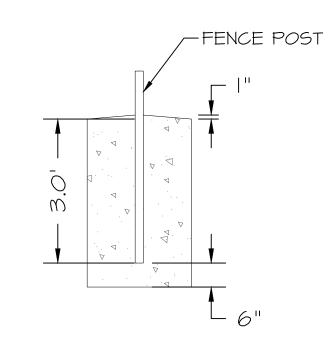
BOLLARD DETAIL SCALE: NTS



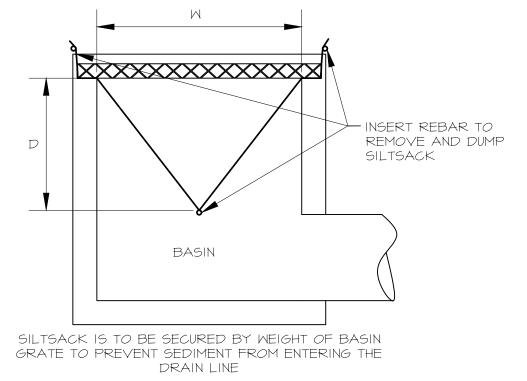
PROPOSED CATCH BASIN (TYP.)



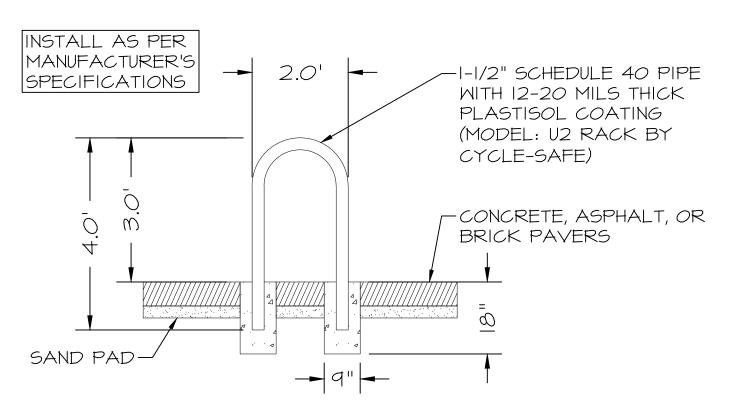
CHAIN LINK FENCE DETAIL



FENCE FOOTING DETAIL

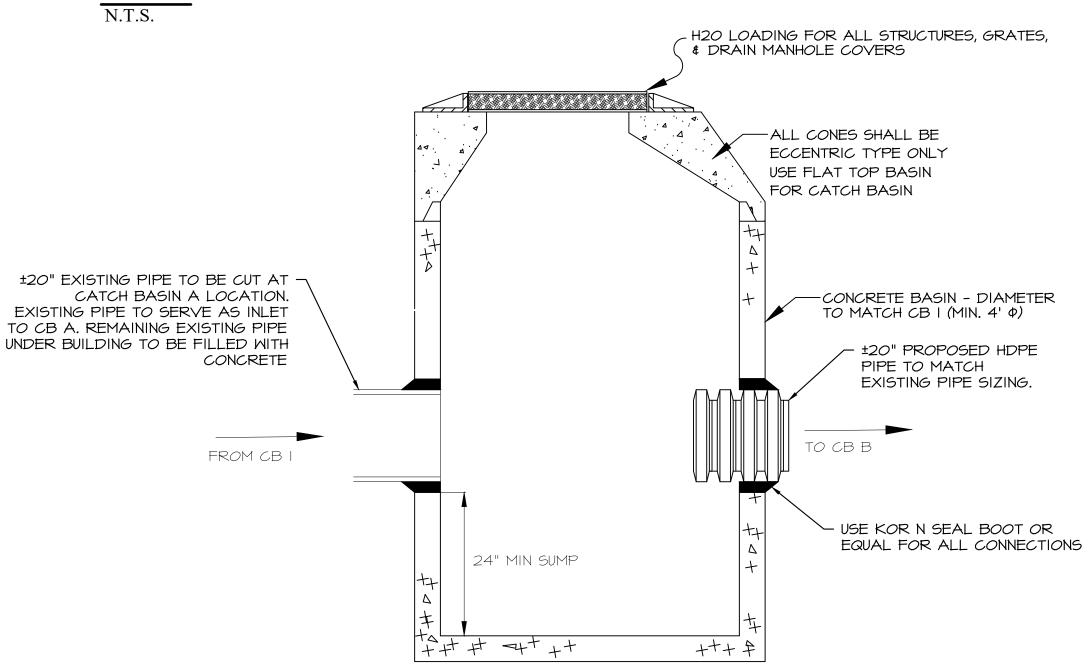


INSTALL SILTSACK TO CATCH BASINS I & 4 PRIOR TO CONSTRUCTION & TO CATCH BASINS A, B, & C DURING CONSTRUCTION. DO NOT REMOVE SILTSACK UNTIL CONSTRUCTION IS COMPLETE AND DRAINAGE LINE IS FULLY OPERATIONAL (SEE SHEET 3)



UPTURNED "U" BICYCLE RACK SCALE: NTS

Siltsack



CATCH BASIN A CONNECTION DETAIL

3	4/26/2022	FOR TAC	
2	4/19/2022	FOR TAC	
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ISS.	DATE	DESCRIPTION OF ISSUE	
SCA	LE 1" = 20'		

CHECKED A.ROSS DRAWN D.D.D. CHECKED

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(603) 433-7560 RIGZ ENTERPRISES LLC

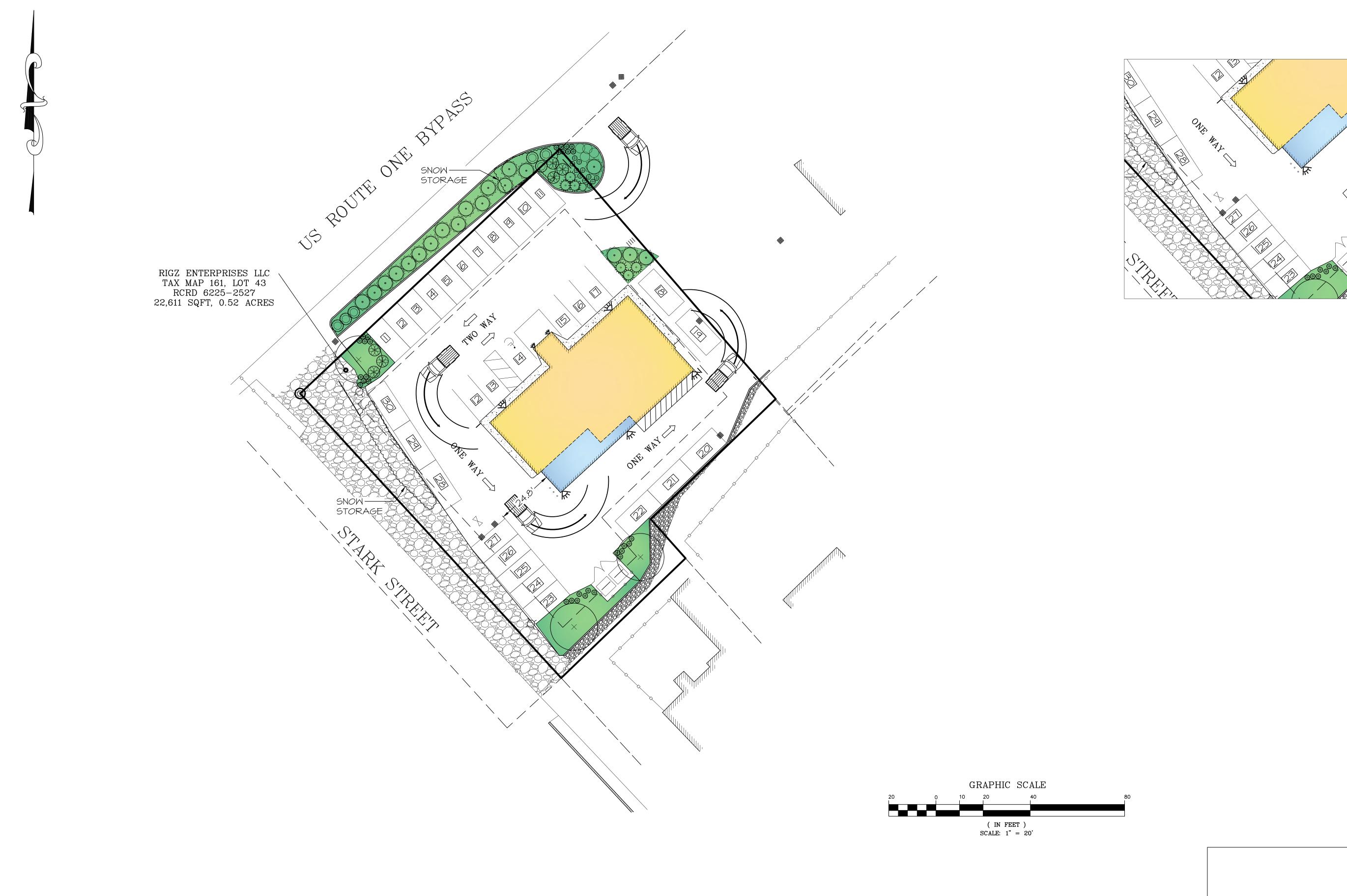
18 DIXON LANE DERRY, NH 03038

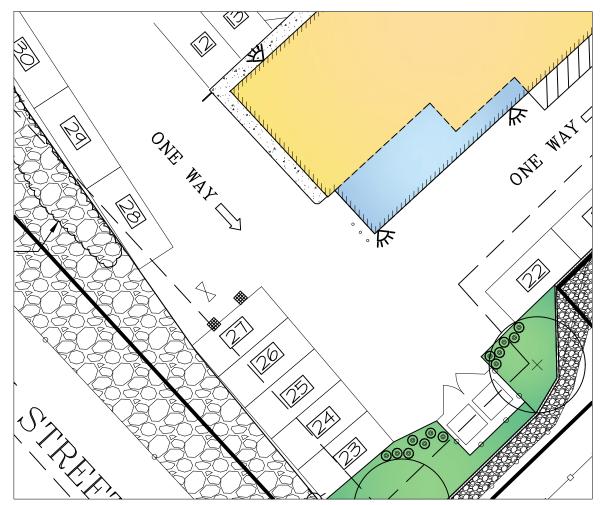
NOTES &

DETAILS

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

21-072 | 5 OF 5 | 2





1	4/12/2022	FOR TAC
ISS.	DATE	DESCRIPTION OF ISSUE
SCAI	LE 1" = 20'	
CHE	A.ROSS	
DRA	WN D.D.D.	
CHE	CKED	

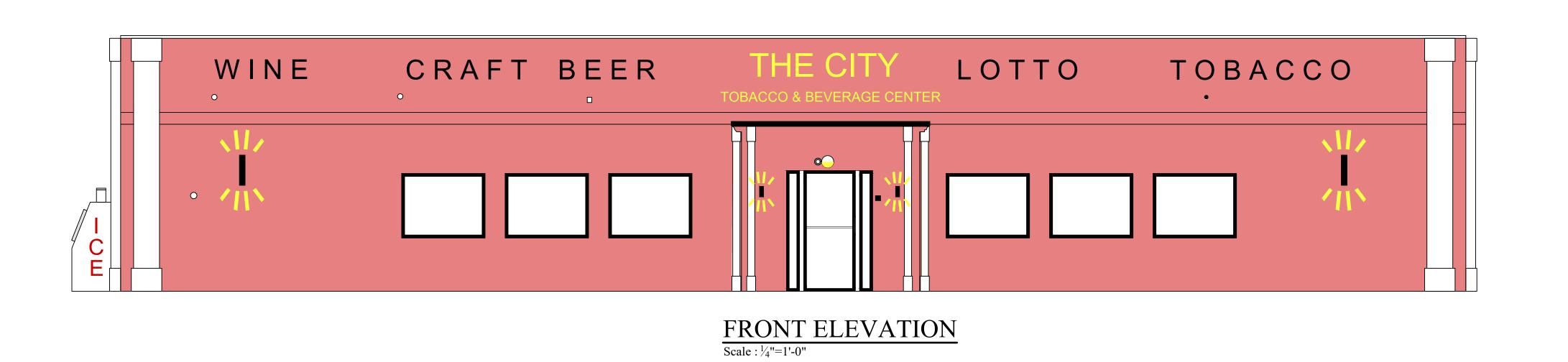
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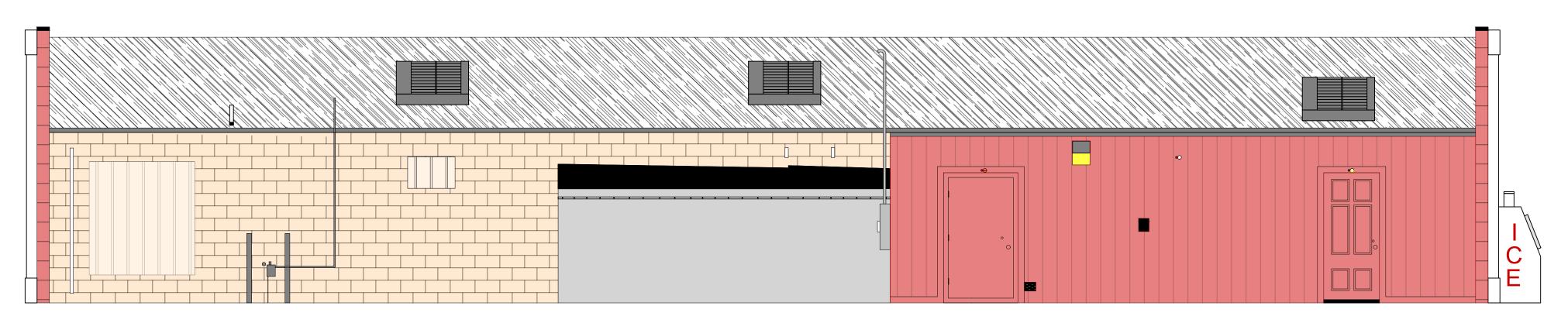
CLIENT DAVID GRZYBOWSKI

RADIUS PLAN

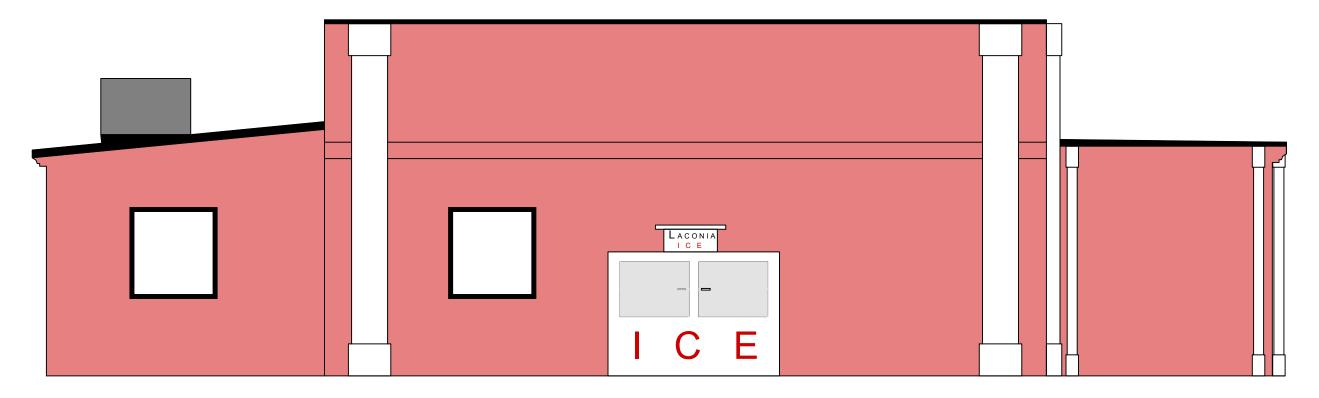
806 US-1 BYP. PORTSMOUTH, NH 03801 TAX MAP 161, LOT 43

JOB NUMBER DWG. NO. ISSUE 21-072 1 OF 1 1





$\frac{REAR\ ELEVATION}{Scale: \frac{1}{4}"=1'-0"}$



$\frac{LEFT\ ELEVATION}{Scale: \frac{1}{4}"=1'-0"}$



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

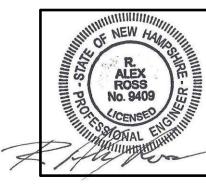
	CHK					
REVISION HISTORY	DESCRIPTION	FOR PERMITS	FOR REVIEW	FOR TAC	REVISIONS	
RE	REV. DATE	6/15/2021	6/22/2021	4/12/2022	4/26/2022	
	REV.	1	2	3	4	
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G & BEVERAGE CENTER
US-1 BYPASS EXISTING E

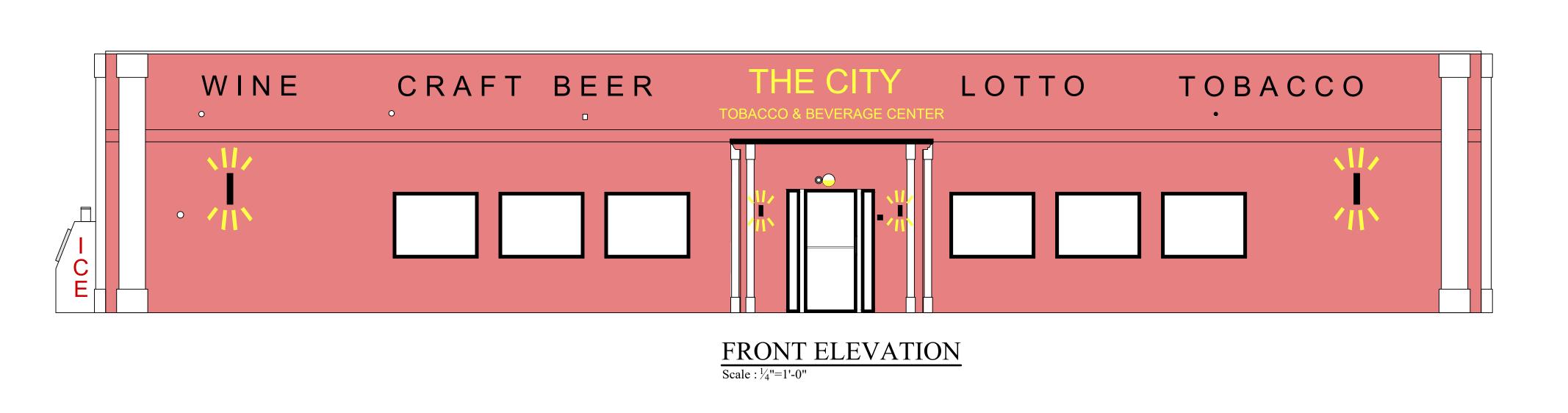
PREPARED FOR: DAVID GRZYBOWSKI

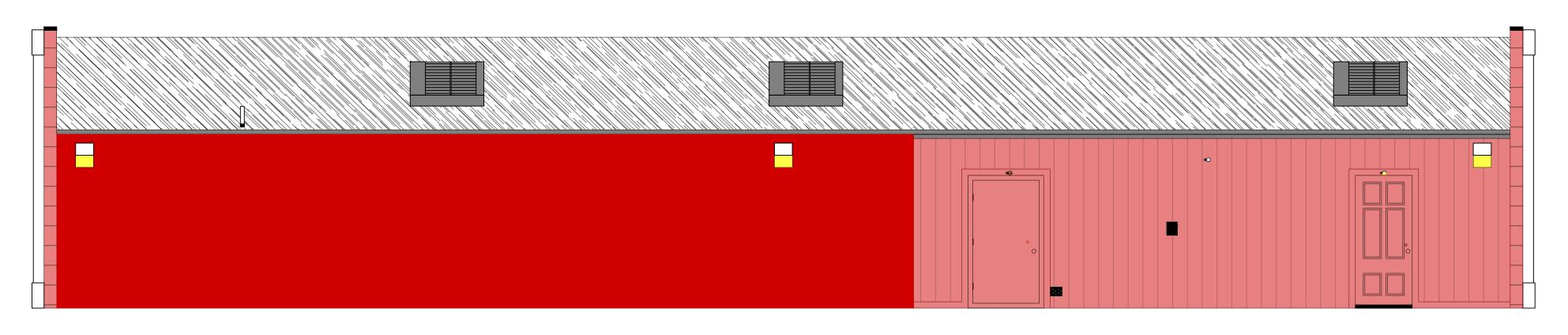
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MGP 5/27 5/27/2021 DRAFTED BY: 5/27/2021

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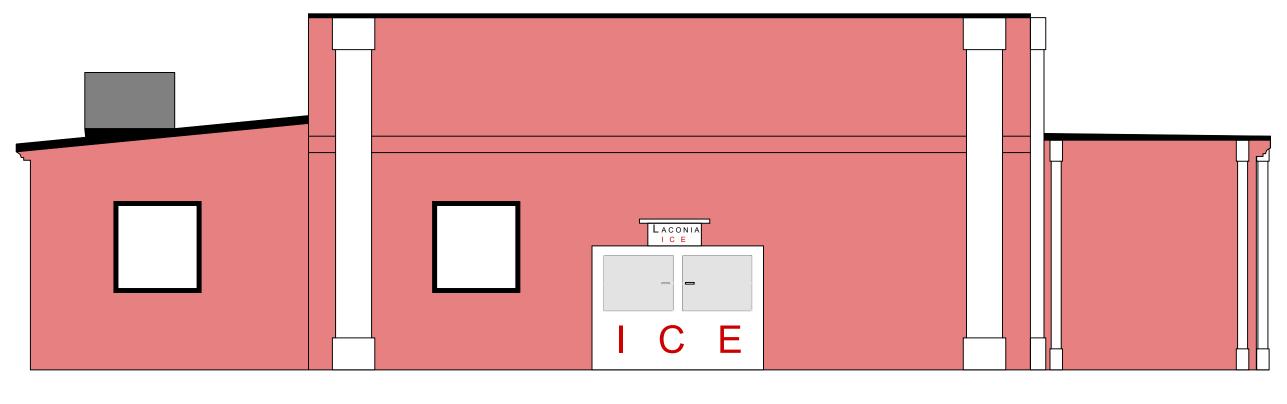


SCALE: AS NOTED SHEET: DRAWING:

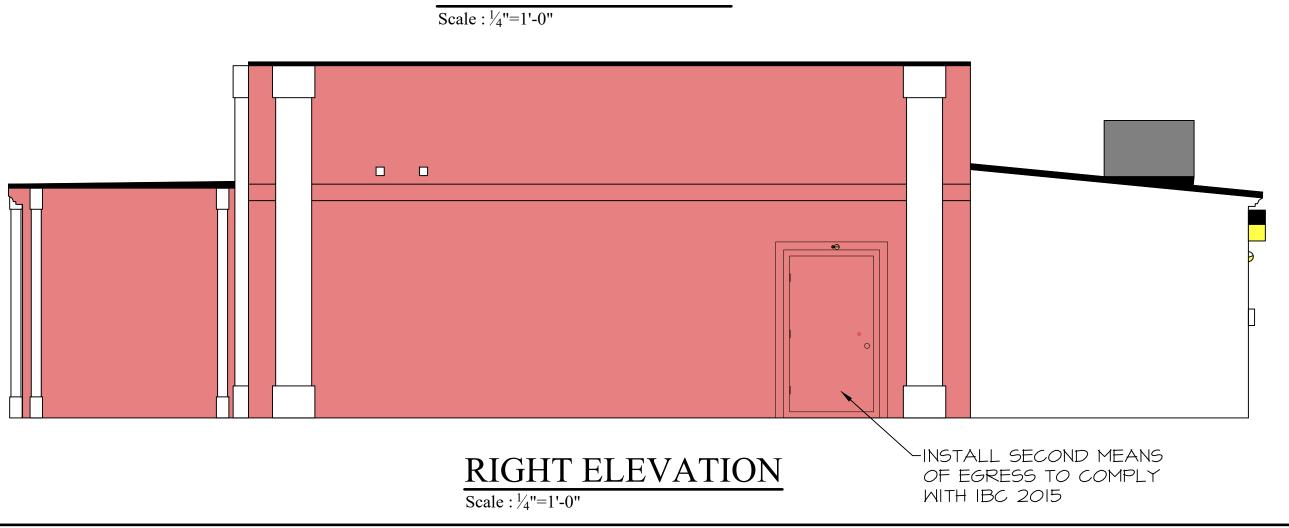




REAR ELEVATION Scale: 1/4"=1'-0"



LEFT ELEVATION



	RE	REVISION HISTORY	
JV.	V. DATE	DESCRIPTION CE	CHK
1	6/15/2021	FOR PERMITS	
7	6/22/2021	FOR REVIEW	
3	4/12/2022	FOR TAC	
4	4/26/2022	REVISIONS	

NGINEERING, LLC
vil/Structural Engineering
& Surveying
909 Islington St.
Portsmouth, NH 03801

GE CENTER Civil/Structural & Surventer Survent

THE CITY TOBACCO & BEVERAGE CENTER

806 US-1 BYPASS

NEW HAMPSHIRE

PREPARED FOR: DAVID GRZYBOWSKI

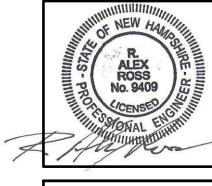
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MGP 5/27/2021

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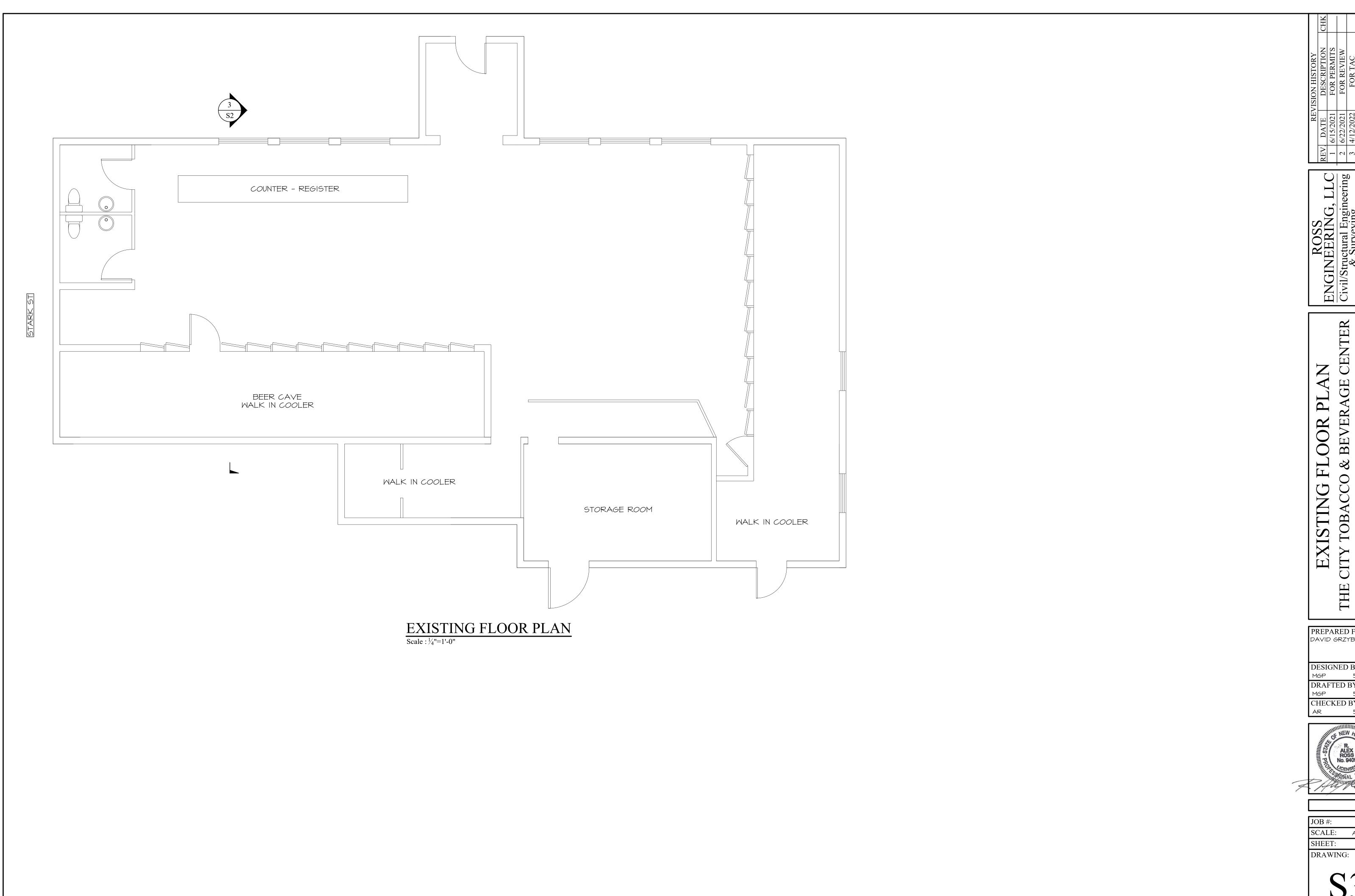
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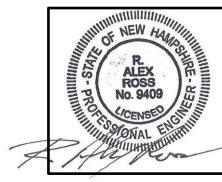


EXISTING FLOOR PLAN
CITY TOBACCO & BEVERAGE CENTER
806 US-1 BYPASS

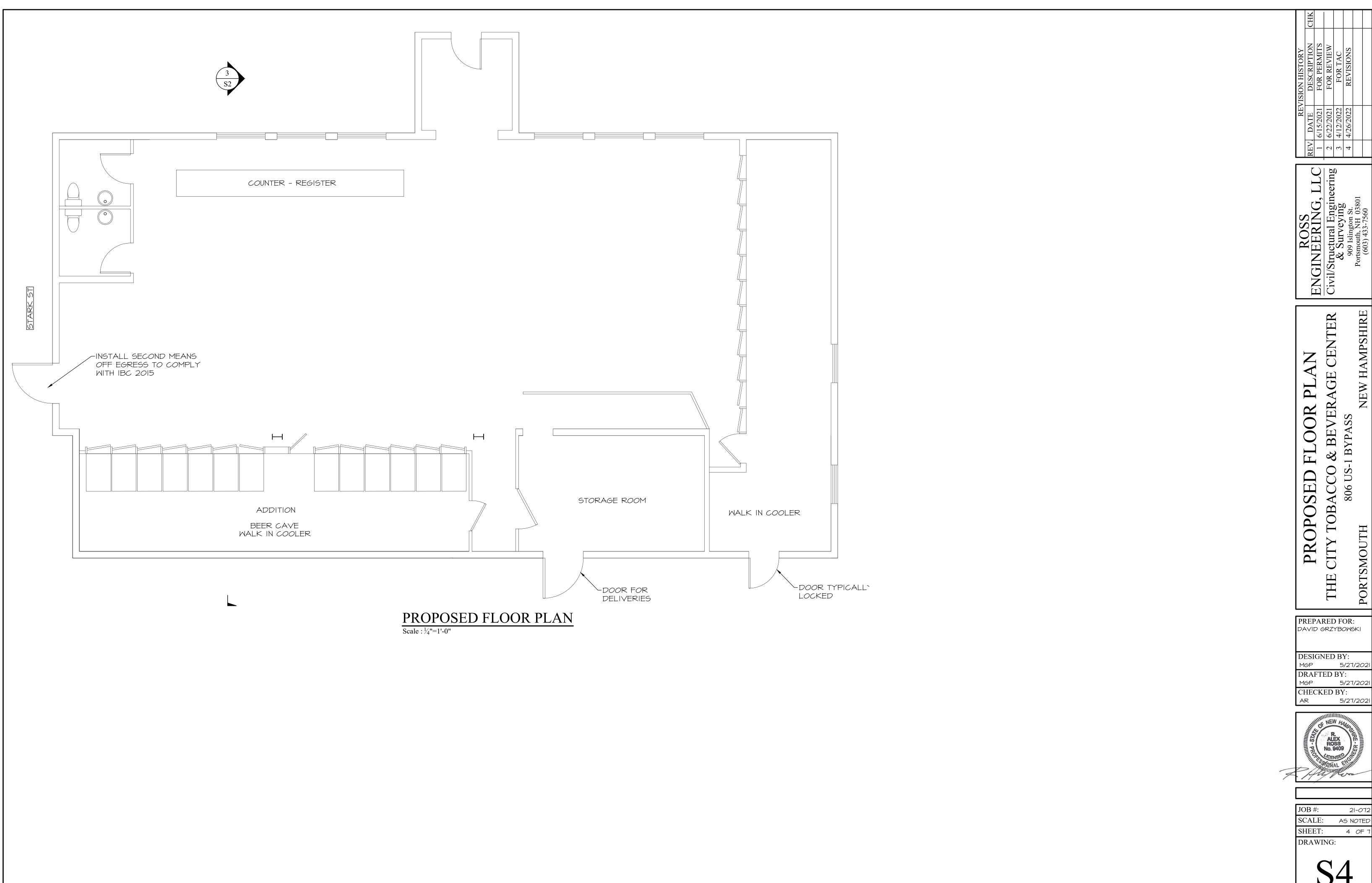
PREPARED FOR: DAVID GRZYBOWSKI

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MGP 5/27/2021 DRAFTED BY: MGP 5/27/2021

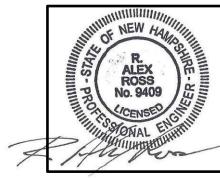
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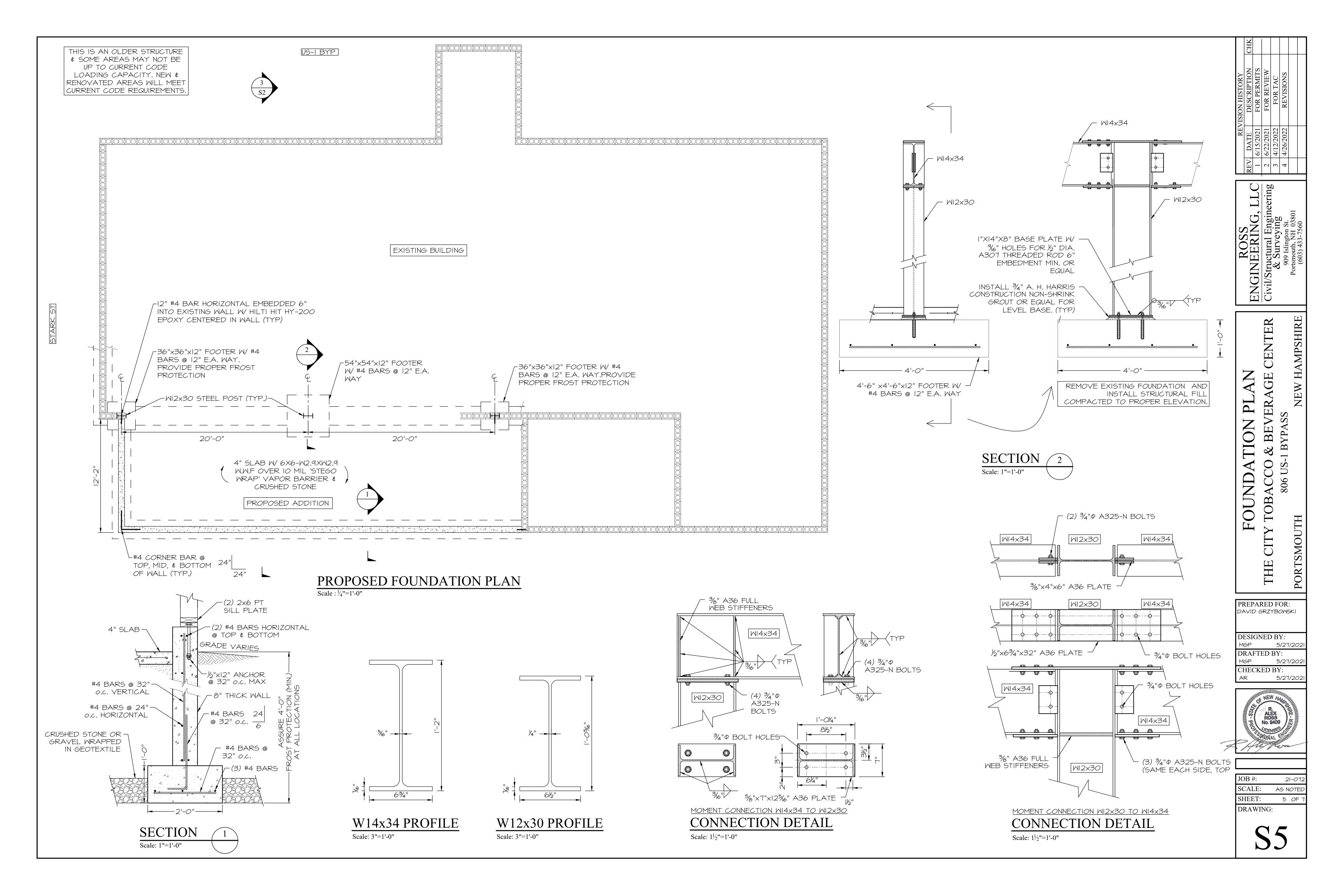
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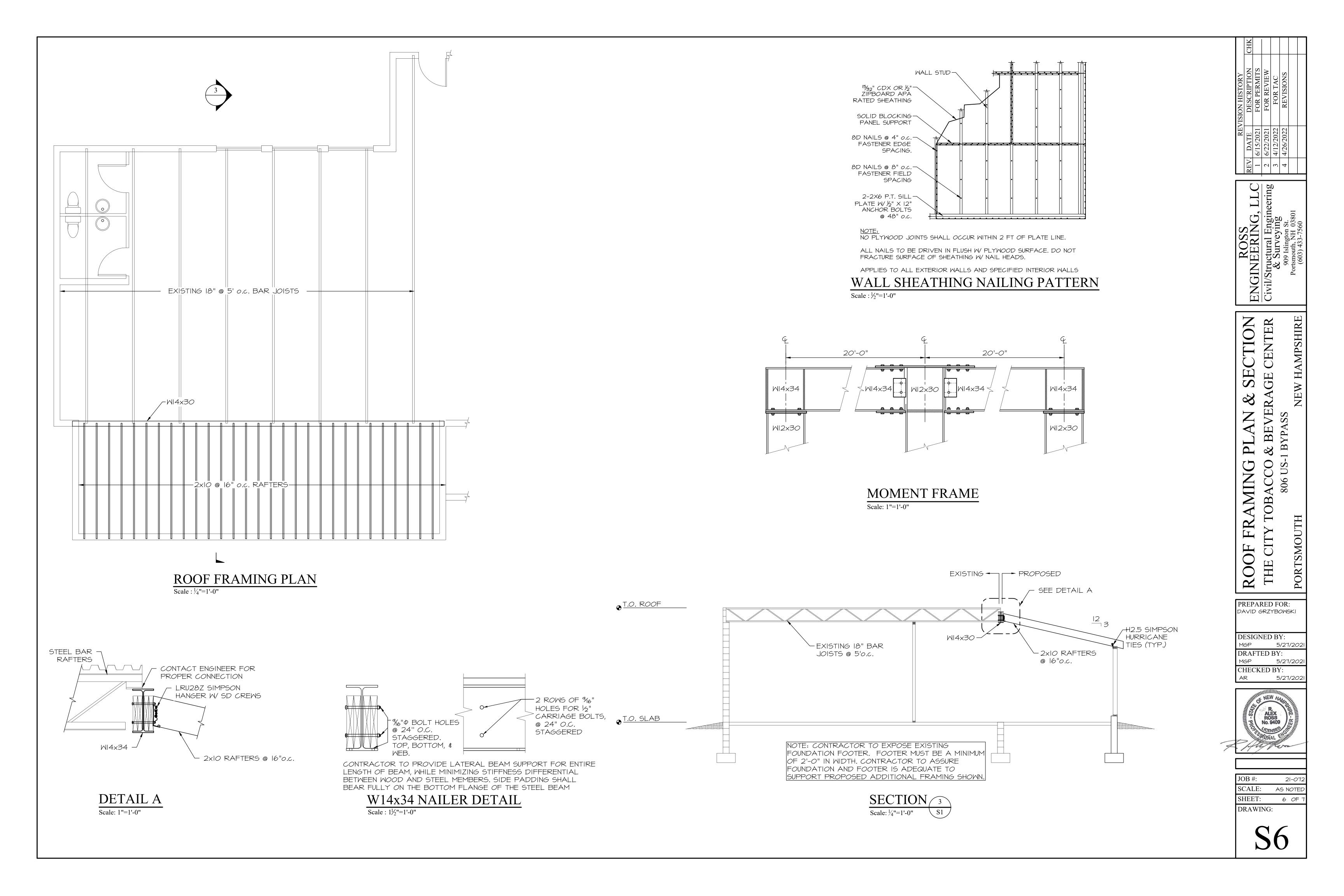


5/27/2021



AS NOTED





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:

I. 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 318-11. * "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:

- . SNOW LOADS
- PER INTERNATIONAL BUILDING CODE 2015 EDITION AND MINIMUM
- DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES ASCE 7-05 - EXPOSURE..

- GROUND SNOW LOAD ..

FOUNDATIONS:

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.

..50 PSF

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'-O" 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 DI557, 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:

- . 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 318-11. * "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 34". (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).

II. 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 - I" 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 WRAP VAPOR BARRIER SEAMS SHALL BE OVERLAPPED A MINIMUM OF 6" AND TAPED WITH STEGO VAPOR BARRIER TAPE OR EQUAL

- 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 C29.
- * ALL TESTING ASSOCIATED WITH CONCRETE SHALL BE IN ACCORDANCE WITH CHAPTER I7 OF "INTERNATIONAL BUILDING CODE" - 2009 EDITION.
- * THE COSTS OF ALL TESTS AND INSPECTIONS SHALL BE THE RESPONSIBILITY OF THE OWNER.

WOOD FRAMING:

I. ALL WOOD FRAMING SHALL CONFORM TO THE FOLLOWING REFERENCE STANDARDS.: * "INTERNATIONAL BUILDING CODE - 2015 EDITION"

* "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" - AF&PA

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 (1,000 REP) PSI, Fv=70 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: 132" SQUARE EDGE PLYWOOD W/ FRAMING CLIPS
- FLOORS: 23/32" TONGUE & GROOVE PLYWOOD - WALLS: 15/32" PLYWOOD
- 4. ROOF AND WALL SHEATHING SHALL COMPLY WITH THE FOLLOWING:
- APA RATED SHEATHING, EXPOSURE I OR 2 - ROOF SHEATHING SHALL HAVE A 40/20 SPAN RATING
- ROOF SHEATHING SHALL HAVE (I) PANEL EDGE CLIP BETWEEN EACH SUPPORT
- A 1/3" EXPANSION GAP SHALL BE LEFT BETWEEN ALL PANELS AS REQUIRED BY
- 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.
- IO. PROVIDE SOLID BLOCKING UNDER ALL CONCENTRATED LOADS. PROVIDE CONTINUITY TO TOP OF FOUNDATION WALL OR FOOTING.
- II. 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: - 134" WIDE VERSA-LAM BEAMS GRADE 3100 Fb SP
- Fb=3,100 PSI, Fv=285 PSI, E=2,000 KSI
- 31/2' AND WIDER VERSA-LAM BEAMS GRADE 3100 Fb SP Fb=3,100 PSI, Fv=285 PSI, E=2,000 KSI
- VERSA-LAM COLUMNS GRADE 3100 Fb SP Fb=3,100 PS1, Fc11=3,000 PS1, E=1,800 KS1
- 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
- STAINLESS STEEL NAILS FOR ATTACHING EXTERIOR TRIM AND SIDING - ALL WOOD MEMBERS TO BE NAILED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE - 2009 EDITION APPENDIX C

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

16. LIGHTWEIGHT RESIDENTIAL LALLY COLUMNS - 31/2" OUTER DIAMETER 16 GAGE 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:

I. 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-ASD 13TH ED. * "DI.I STRUCTURAL WELDING CODE / STEEL" - AWS 1998.
- 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

PROVIDE ALL NECESSARY CONNECTION HARDWARE FOR CONNECTIONS.

- * BOLTS CONNECTIONS ASTM A325, ANCHOR BOLTS ASTM A307 * WELDING ELECTRODES - ETOXX 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.

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

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:

ROOF AND PERMANENT BRACING IS IN PLACE.

THE OWNER.

- * 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

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.

II. 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 B50AVII).

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KEVISION HISTORY	DESCRIPTION	FOR PERMITS	FOR REVIEW	FOR TAC	REVISIONS		
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PREPARED FOR: DAVID GRZYBOWSKI

DESIGNED BY: 5/27/202 DRAFTED BY: 5/27/202 CHECKED BY: 5/27/202

JOB #: SCALE: AS NOTE SHEET: 7 OF

DRAWING:





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	ССТ	Efficacy	CRI	Housing Color	Input Voltage	Rated Life	Legacy Equivalent
KT-WPLED60-M2-840-VDIM	60W	7500 lm	7445 lm	0.101/	4000K	125 lm/W	. 90	Drongo	120-277V	50.000 hrs	OFOW MIL
KT-WPLED60-M2-850-VDIM	OUW	7800 lm	7745 lm	0–10V	5000K	130 lm/W	>80	Bronze	120-2//V	50,000 nrs	250W MH

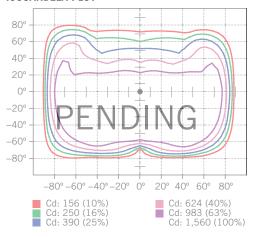




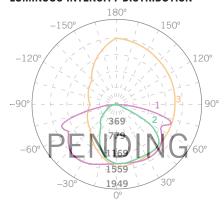
KT-WPLED60-M2-8XX-VDIM ARCHITECTURAL 60W FULL-CUTOFF LED WALL PACK

PHOTOMETRIC SPECIFICATIONS

ISOCANDELA PLOT



LUMINOUS INTENSITY DISTRIBUTION



Average diffuse angle (50%): 125.1°

- 1 Violet CO-C180
- 2 Green C90-C270
- 3 Orange G36

Unit: cd

FLUX DISTRIBUTION

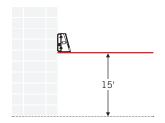
Zone	Lumens	% Luminaire
Forward Light	3,171 lm	62.0%
0°-30°	596 lm	11.6%
30°-60°	1,594 lm	31.2%
60°-80°	912 lm	17.8%
80°-90°	70 lm	1.4%
Back Light	1,905 lm	37.2%
0°-30°	514 lm	10.1%
30°-60°	876 lm	17.1%
6 0°= 80°	460m	9.0%
8 0 °–90°	54 Lpg	
Up Light	39 lm	0.8%
90°-100°	3 lm	0.1%
100°-180°	36 lm	0.7%

BUG* Rating		
Asymmetrical Lumina	re Types	
Type I, II, III, IV	B2 U2 G1	
Quadrilateral Symmetrical Luminare Types		
Type V, Area Light	B2 U2 G1	

^{*} Backlight, Uplight, Glare

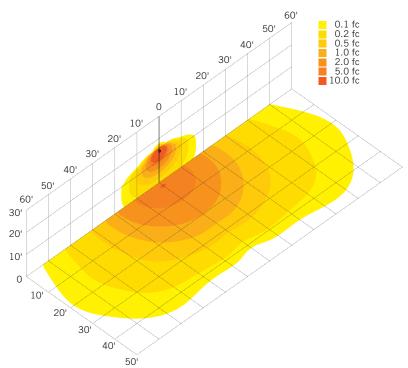
MOUNTING

Side view



LIGHT DISTRIBUTION PATTERN

Isometric view from above; Luminaire mounted at 15'

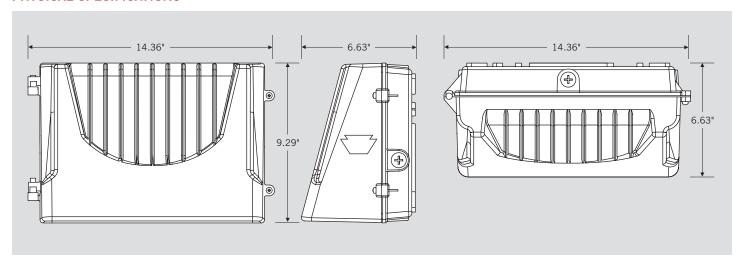






KT-WPLED60-M2-8XX-VDIM ARCHITECTURAL 60W FULL-CUTOFF LED WALL PACK

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 Keystone Technolo	pries

- 2 Fixture Type
- 3 LED Lamp
- 4 Max Wattage
- 5 Size
- 6 Style
- 7 CRI
- 8 Color
- 9 Dimming

2 Fixture	Type
-----------	------

7 CRI

8

9

F	Flood
WP	Wallpack

>80

>90

S	Small
М	Medium
L	Large

5 Size

S	Small
M	Medium
L	Large

8 Color	
40	4000K
EO	EUUUK

6 Style	
1	Non-Cut

1	Non-Cutoff
2	Full-Cutoff

9	Di	m	m	ir	ıg	

VDIM	0-10V

Luminaire Schedule								
Symbol	Qty	Label	Arrangement	Total Lamp Lumens	LLF	Description		
<u> </u>	3	KT-WPLED60-M2-840-VDIM	Single	7267.4	0.900	60W Full Cut Off - Modified to 5K		
Ç	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.Ā.	N.A.

Luminaire Location Summary							
LumNo	Label	Insertion Point	X	Υ	Mounting	Orient	Tilt
					Height		
1	KT-ALED140-M1-4-NM-840-VDIM-2	2L	275	313	20	225	0
2	KT-ALED140-M1-4-NM-840-VDIM-2	2L	161	307	20	315	0
3	KT-ALED140-M1-4-NM-840-VDIM-2	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





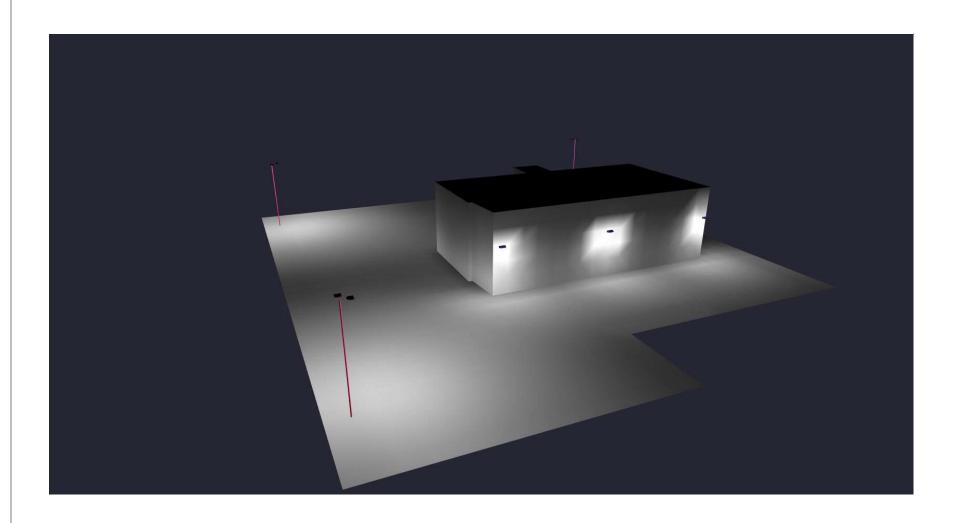
View of point by point

Project: NorthEast Dover KT-ALED140-M1-4, MH is 20' KT-WPLED60-M2, MH is 12' RED = 8+ FC, BLUE = 4 FC GREEN = 2 FC, VIOLET = 1 FC Keystone Technologies Lighting Layout

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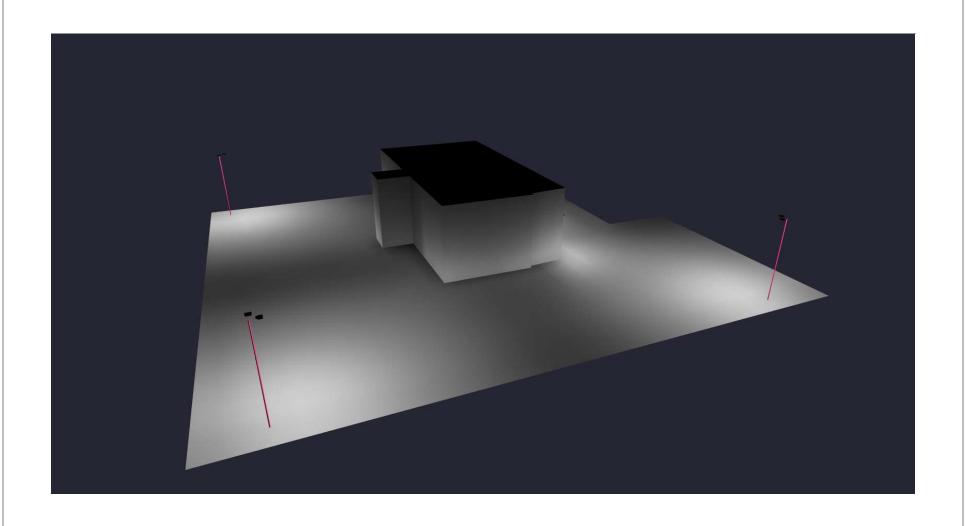


Project : NorthEast Dover KT-ALED140-M1-4 , MH is 20' KT-WPLED60-M2 , MH is 12' Keystone Technologies Lighting Layout

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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.

Project : NorthEast Dover KT-ALED140-M1-4 , MH is 20' KT-WPLED60-M2 , MH is 12' **Keystone Technologies Lighting Layout**

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Email: LightingLayouts@keystonetech.com



Date:4/25/2022 Page 5 of 5



LED AREA LIGHT FIXTURES

DESCRIPTION

Compact 140W High-Performance LED Area Light I 120–277V Input I Bronze Housing I 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)













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 @ 25C°/77F° 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		19,320 lm	138 lm/W		4000K		Ш					1014/						
KT-ALED140-M1-3-NM-850-VDIM	1.4014/	19,600 lm	140 lm/W	139 lm/W 0–10V	5000K	00	III	100 0771	F0 000 I	40014		10kV external						
KT-ALED140-M1-5-NM-840-VDIM	140W	19,460 lm	139 lm/W		0-10V	0–107	0-100	0-100	0-100		4000K	>80	>80 V 12	120–277V	50,000 hrs	400W	Bronze	surge protection
KT-ALED140-M1-5-NM-850-VDIM		19,740 lm	141 lm/W		5000K		٧					included						

^{*} 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" tennon; 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

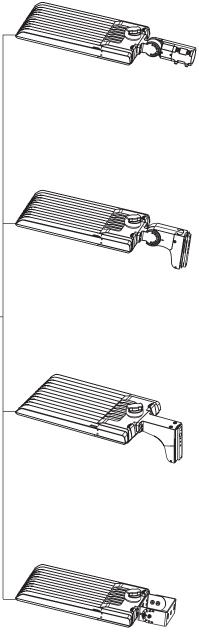
Catalog Number	UPC	Easy Code		
KT-ALED-PM-1-KIT	843654131627	QVG-29		

TRUNNION MOUNT

Bronze

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



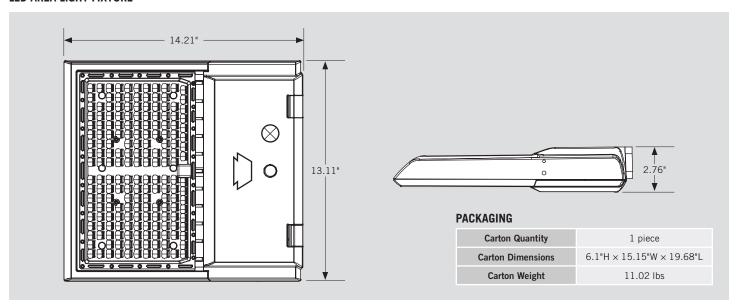




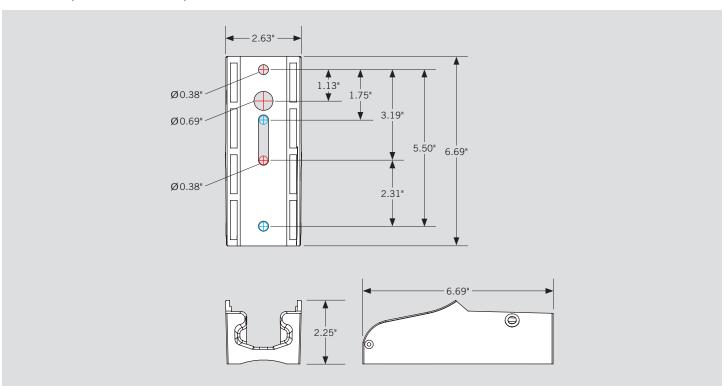
KT-ALED140-M1-X-NM-8XX-VDIM LED AREA LIGHT FIXTURES

PHYSICAL SPECIFICATIONS

LED AREA LIGHT FIXTURE



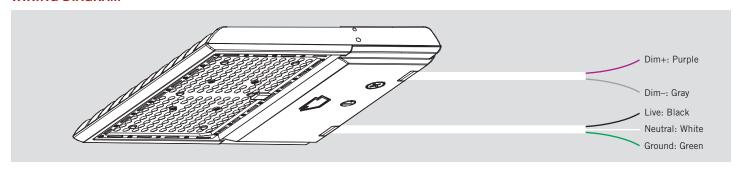
POLE MOUNT (ADJUSTABLE OR FIXED) DRILLING HOLES





KT-ALED140-M1-X-NM-8XX-VDIM LED AREA LIGHT FIXTURES

WIRING DIAGRAM



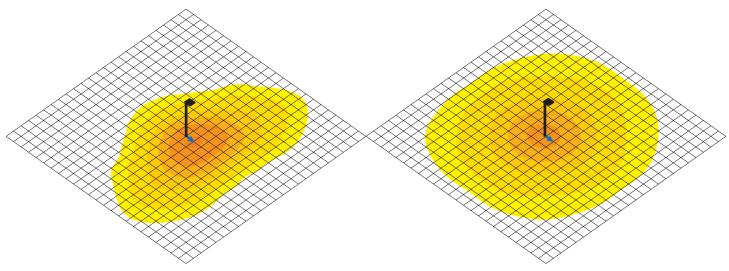
LIGHT DISTRIBUTION PATTERN

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
- \bullet Grid dimension: 10×10 sq ft



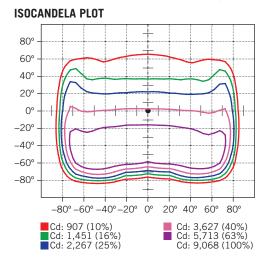
- Photometric layout for general reference only
- \bullet Grid dimension: 10×10 sq ft



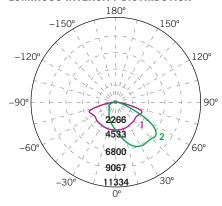


LED AREA LIGHT FIXTURES

PHOTOMETRIC SPECIFICATIONS (TYPE 3 [III])



LUMINOUS INTENSITY DISTRIBUTION



Average diffuse angle (50%): 110.8°

1 Violet CO-C180

2 Green C90-C270

Unit: cd

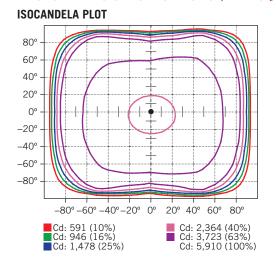
FLUX DISTRIBUTION

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%

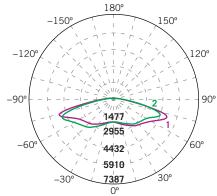
BUG* Rating				
Asymmetrical Luminare Types				
Type I, II, III, IV	B3 U0 G3			
Quadrilateral Symmetrical Luminare Types				
Type V, Area Light	B3 U0 G3			

^{*} $\emph{\textbf{B}}$ acklight, $\emph{\textbf{U}}$ plight, $\emph{\textbf{G}}$ lare

PHOTOMETRIC SPECIFICATIONS (TYPE 5 [V])



LUMINOUS INTENSITY DISTRIBUTION



Average diffuse angle (50%): 156.1°

1 Violet CO-C180

2 Green C90-C270

Unit: cd

FLUX DISTRIBUTION

Zone	Zone Lumens		
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%	

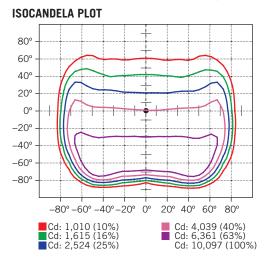
BUG* Rating					
Asymmetrical Luminare Types					
Type I, II, III, IV	B4 U0 G4				
Quadrilateral Symmetrical Luminare Types					
Type II	B4 U0 G4				

^{*} Backlight, Uplight, Glare

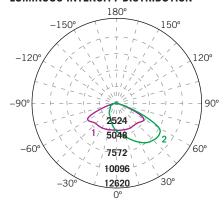


LED AREA LIGHT FIXTURES

PHOTOMETRIC SPECIFICATIONS (TYPE 4 [IV])



LUMINOUS INTENSITY DISTRIBUTION



Average diffuse angle (50%): 102.7°

1 Violet CO-C180

2 Green C90-C270

Unit: cd

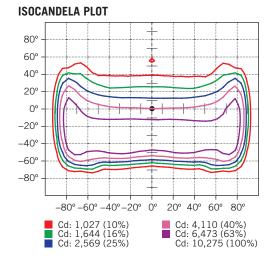
FLUX DISTRIBUTION

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%	

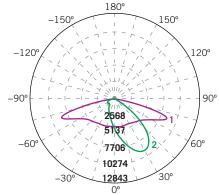
BUG* Rating					
Asymmetrical Luminare Types					
Type I, II, III, IV	B3 U0 G3				
Quadrilateral Symmetrical Luminare Types					
Type V, Area Light	B3 U0 G3				

^{*} $\emph{\textbf{B}}$ acklight, $\emph{\textbf{U}}$ plight, $\emph{\textbf{G}}$ lare

PHOTOMETRIC SPECIFICATIONS (TYPE 2 [II])



LUMINOUS INTENSITY DISTRIBUTION



Average diffuse angle (50%): 104.2°

1 Violet CO-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 Luminare Types				
Type I, II, III, IV	B3 U0 G3			
Quadrilateral Symmetrical Luminare Types				
Type V, Area Light	B3 U0 G2			

^{*} Backlight, Uplight, Glare



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	l 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	4	4	I	T		-1-	n.		1
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





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	VBT-79

CATALOG NUMBER BREAKDOWN

140-M1-X-NM-8XX-VDIM

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	Typ	е

Α	Area Light
Distribution Type	
2	Type 2 (II)
3	Type 3 (III)

Type 4 (IV)

Type 5 (V)

5 Size/Shape

8 Mounting

NM

Medium

No Mounting

Series 1

6 Style/Design Designation

>80

9 CRI	
8	

10 Color Temp

13

40	4000K
50	5000K

11 Dimming

	_
VDIM	0-10V

12 Housing Color

Blank	Bronze
В	Black
W	White

13 Options

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