AMBIT ENGINEERING,INC. CIVIL ENGINEERS AND LAND SURVEYORS
200 Griffin Road, Unit 3, Portsmouth, NH 03801 Phone (603) 430-9282 Fax 436-2315

4 December 2019

Dexter Legg, Planning Board Chair
City of Portsmouth
1 Junkins Avenue
Portsmouth, NH 03801

RE: Request for Design Review at 60 Penhallow Street, Brick Market, Redevelopment Site Plan

Dear Mr. Legg and Planning Board Members:

On behalf of Mark McNabb and Dagny Taggart, LLC we are pleased to submit the attached plan set for **Planning Board Design Review** for the above-mentioned project at your December 19, 2019 Planning Board Meeting. The project includes proposed new construction of a 4 story commercial building to be known as 60 Penhallow Street with the associated required site improvements. The site is currently a surface parking lot at the corner of Penhallow and Daniel Streets, on the opposite corner of the McIntire Building. The site redevelopment offers and excellent opportunity to link the McIntire Building site with Market Square by creating public access across the submitted and adjacent properties owned by the applicant and known as Tax Map 107, Lots 27 and 31. The Board considered this project at a Conceptual Consultation on November 21, 2019. The comments we received, specifically in regards to the Community Space Plan, have been incorporated into this submission.

We seek Planning Board input herein under **Planning Board Design Review** and request that the Board determine that there is sufficient information to accept the plans as presented and schedule a Public Hearing for the next Planning Board meeting.

The following plans are included in our submission:

- Cover Sheet – This shows the Development Team, Legend, Site Location, and Site Zoning.
- Standard Boundary Survey Plan and Easement Plan – These plans show the existing property boundaries and property easements on the entire Community Development Area.
- Master Plan Exiting Conditions – This plan shows the existing features and boundary of the Development Area.
- Master Plan Community Space – This plan shows the 30 % of the Development Area that will be dedicated as Community Space.

- Existing Conditions Plan C1 – This plan shows the existing conditions on the property.
- Demolition Plan C2 – This plan shows site preparation for construction.
- Site Layout Plan C3 – This plan shows the proposed site development at 60 Penhallow in detail with the associated Zoning Calculations.
- Landscape Plans – These plans shows Site Landscape and Hardscape for the proposed development.
- Utility Plan C4 – This plan shows proposed site utilities.
- Grading and Drainage Plan C5 – This plan shows proposed site grading and drainage features. We reviewed possible flow mitigation options, given the increase to covered area. Understanding the desire to provide a site covered with appropriate urban useable space amenities (i.e. walkways and pedestrian areas) the increase is a part of the fabric of creating this Community Space. There is some space that will be re-dedicated to a Pocket Park (design in progress).
- Offsite Improvements C6 – This plan shows the offsite improvements at Pleasant Street.
- Floor Plan A0.01 – This plan shows the building First Floor Level.
- Exterior Elevation Plan A0.02 & A0.03 – These plan shows the proposed building exterior elevations.
- First and Second Parking Floor Plans A0.00A and A0.00B – These plans show the two parking decks within the building that will provide underground parking to service the building.
- Lighting Plans – These plans show the proposed lighting design.

Also included herewith are the following to assist in the review of the project: Façade Glazing Calculations, Green Building Statement, Trip Generation Report, Trash Chutes Example, Community Space Example Deed, Drainage Analysis (Front End Report), and a Lighting Schedule and Lighting Cut Sheets.

We look forward to the Planning Boards review of this submission and feedback on the proposed design. We request that the Board schedule a Public Hearing for the next Planning Board meeting

Sincerely,

John R. Chagnon, PE

CC: Mark McNabb, Tracy Kozak, Robbi Woodburn, FX Bruton

SITE REDEVELOPMENT

BRICK MARKET

60 PENHALLOW STREET
PORTSMOUTH, NEW HAMPSHIRE

PLANNING BOARD DESIGN REVIEW

OWNER:
DAGNY TAGGART, LLC

APPLICANT:
MCNABB PROPERTIES, LTD
30 PENHALLOW ST, STE 300 EAST
PORTSMOUTH, NH 03801
(603) 427-0725

CIVIL ENGINEER & LAND SURVEYOR:
AMBIT ENGINEERING, INC.
200 GRIFFIN ROAD, UNIT 3
PORTSMOUTH, N.H. 03801
Tel. (603) 430-9282
Fax (603) 436-2315

STRUCTURAL ENGINEER:
JSN ASOCIATES, LLC
1 AUTUMN STREET
PORTSMOUTH NH, 03801
TEL.(603) 433-8639

MEP & FIRE PROTECTION:
PETERSEN ENGINEERING
127 PARROTT AVENUE
PORTSMOUTH NH, 03801
TEL.(603) 436-4233

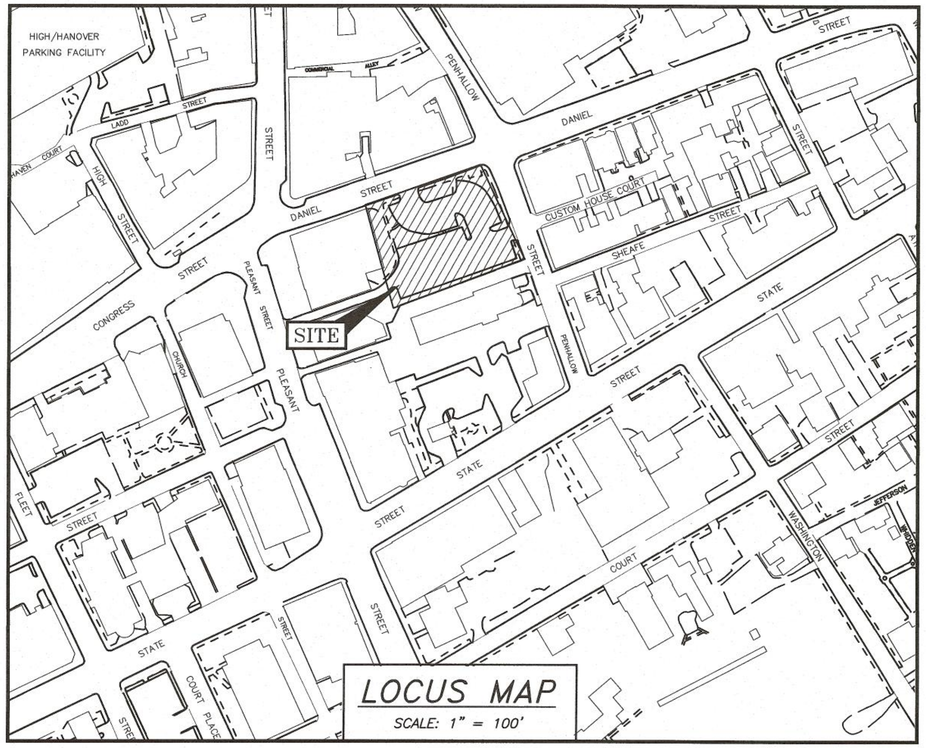
LIGHTING DESIGNER:
J&M LIGHTING DESIGN, INC.
PO BOX 4 WOODLAND AVENUE
KENNEBUNKPORT ME, 04046-1659
TEL.(207) 967-5223

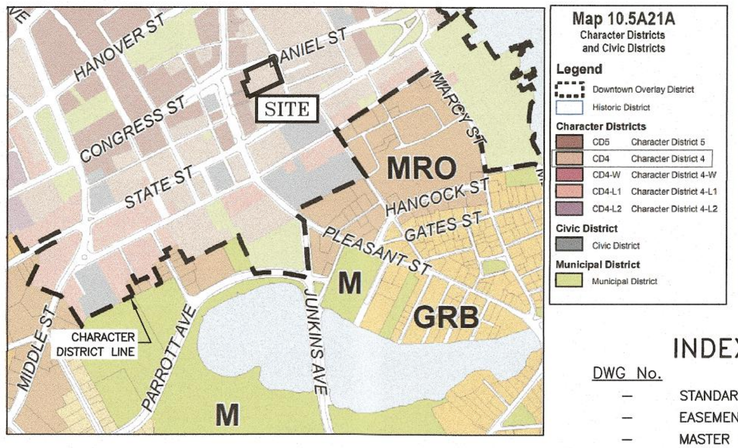
ATTORNEY:
FX BRUTON
BRUTON & BERUBE, PLLC
601 CENTRAL AVENUE
DOVER, NH 03820
(603) 749-4529

LANDSCAPE ARCHITECT:
WOODBURN & COMPANY
103 KENT PLACE
NEWMARKET, NH 03857
TEL. (603) 659-5949
FAX (603) 659-5939

ARCHITECT:
JSA ARCHITECTS
273 CORPORATE DRIVE
SUITE 100
PORTSMOUTH NH 03801
TEL. (603) 436-2551
FAX (603) 436-6973

GEOTECHNICAL ENGINEER:
GSI
18 COTE AVENUE #11
GOFFSTOWN NH 03045
TEL. (603) 624-2722





PERMIT LIST:
- PORTSMOUTH HDC: APPROVED 11-13-19
- PORTSMOUTH ZONING BOARD: PENDING
- PORTSMOUTH SITE REVIEW: PENDING
- PORTSMOUTH CONDITIONAL USE PERMIT: PENDING

LEGEND:

EXISTING	PROPOSED	
		PROPERTY LINE
		SETBACK
S	S	SEWER PIPE
SL	SL	SEWER LATERAL
G	G	GAS LINE
D	D	STORM DRAIN
W	W	WATER LINE
WS	WS	WATER SERVICE
UGE	UGE	UNDERGROUND ELECTRIC
OHW	OHW	OVERHEAD ELECTRIC/WIRES
	UD	FOUNDATION DRAIN
		EDGE OF PAVEMENT (EP)
100	100	CONTOUR
97x3	98x0	SPOT ELEVATION
		UTILITY POLE
		WALL MOUNTED EXTERIOR LIGHTS
		TRANSFORMER ON CONCRETE PAD
		ELECTRIC HANDHOLD
		SHUT OFFS (WATER/GAS)
	GV	GATE VALVE
	HYD	HYDRANT
CB	CB	CATCH BASIN
S	SMH	SEWER MANHOLE
D	DMH	DRAIN MANHOLE
T	TMH	TELEPHONE MANHOLE
14	14	PARKING SPACE COUNT
PM		PARKING METER
LSA		LANDSCAPED AREA
TBD	TBD	TO BE DETERMINED
CI	CI	CAST IRON PIPE
COP	COP	COPPER PIPE
DI	DI	DUCTILE IRON PIPE
PVC	PVC	POLYVINYL CHLORIDE PIPE
RCP	RCP	REINFORCED CONCRETE PIPE
AC	–	ASBESTOS CEMENT PIPE
VC	VC	VITRIFIED CLAY PIPE
EP	EP	EDGE OF PAVEMENT
EL.	EL.	ELEVATION
FF	FF	FINISHED FLOOR
INV	INV	INVERT
S =	S =	SLOPE FT/FT
TBM	TBM	TEMPORARY BENCH MARK
TYP	TYP	TYPICAL

DIG SAFE
MA – ME – NH – RI – VT
1-888-344-7233
CALL TOLL FREE

INDEX OF SHEETS

UTILITY CONTACTS

ELECTRIC:
EVERSOURCE
1700 LAFAYETTE ROAD
PORTSMOUTH, N.H. 03801
Tel. (603) 436-7708, Ext. 555.5678
ATTN: MICHAEL BUSBY, P.E. (MANAGER)

NATURAL GAS:
UNITIL
325 WEST ROAD
PORTSMOUTH, N.H. 03801
Tel. (603) 294-5144
ATTN: DAVE BEAULIEU

CABLE:
COMCAST
155 COMMERCE WAY
PORTSMOUTH, N.H. 03801
Tel. (603) 679-5695 (X1037)
ATTN: MIKE COLLINS

SEWER & WATER:
PORTSMOUTH DEPARTMENT OF PUBLIC WORKS
680 PEVERLY HILL ROAD
PORTSMOUTH, N.H. 03801
Tel. (603) 427-1530
ATTN: JIM TOW

COMMUNICATIONS:
FAIRPOINT COMMUNICATIONS
JOE CONSIDINE
1575 GREENLAND ROAD
GREENLAND, N.H. 03840
Tel. (603) 427-5525

PORTSMOUTH APPROVAL CONDITIONS NOTE:
ALL CONDITIONS ON THIS PLAN SET SHALL REMAIN IN EFFECT IN PERPETUITY PURSUANT TO THE REQUIREMENTS OF THE CITY OF PORTSMOUTH SITE PLAN REVIEW REGULATIONS.

APPROVED BY THE PORTSMOUTH PLANNING BOARD

CHAIRMAN _____ DATE _____

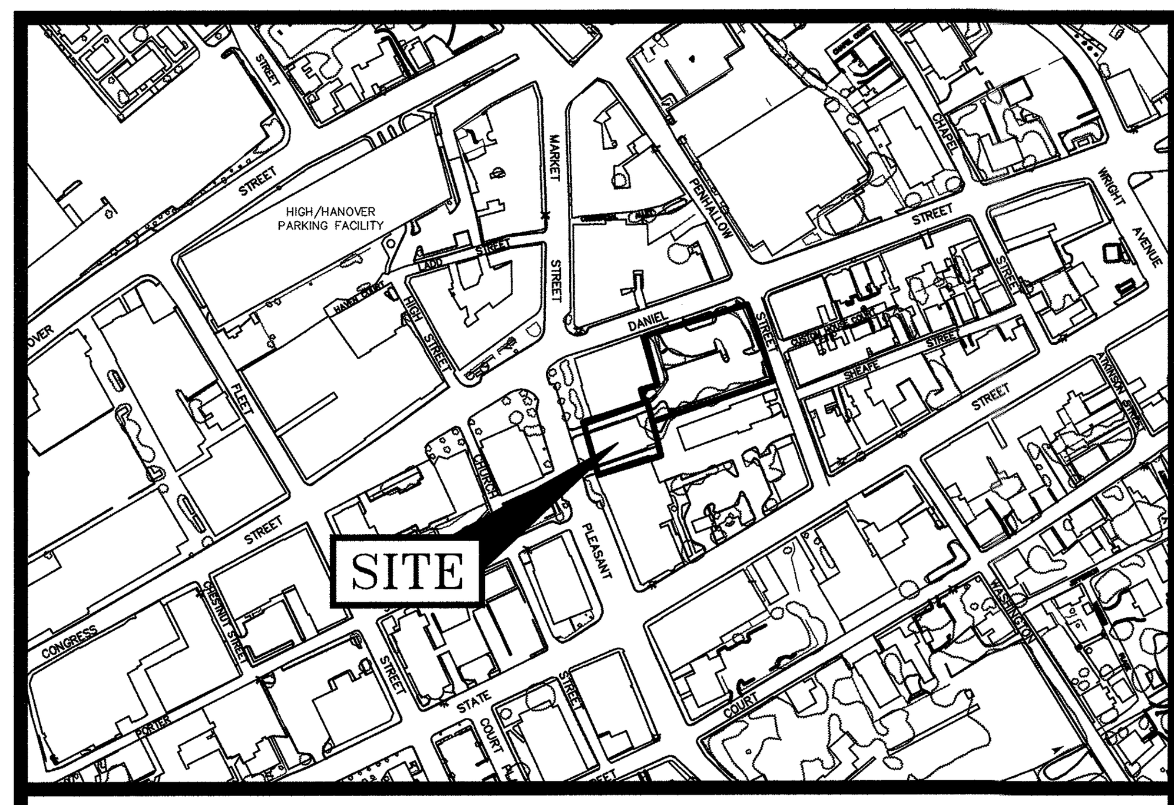
PLANNING BOARD DESIGN REVIEW
BRICK MARKET
60 PENHALLOW STREET
PORTSMOUTH, N.H.

AMBIT ENGINEERING, INC.
Civil Engineers & Land Surveyors
200 Griffin Road – Unit 3
Portsmouth, N.H. 03801-7114
Tel (603) 430-9282
Fax (603) 436-2315

PLAN SET SUBMITTAL DATE: 3 DECEMBER 2019

3039

J:\0853\JN 3000's\JN 3030's\JN 3039\2019 Site Development 60 Penhallow\Plans & Specs\Site\3039 COVER 60 PENHALLOW.dwg, COVER-DESIGN REVIEW



LOCATION MAP SCALE 1"=300'

PLAN REFERENCES:

1) PLAN OF LAND FOR INDIAN HEAD BANK OF PORTSMOUTH, DANIEL AND PENHALLOW STREETS. PORTSMOUTH, NH. PREPARED BY BY TOWN PLANNING AND ENGINEERING ASSOC. INC. DATED JUNE 10, 1977, FINAL REVISION DATE AUGUST 30, 1978. R.C.R.D. PLAN C-8101.

2) PLAN OF LAND FOR INDIAN HEAD BANK OF PORTSMOUTH, DANIEL & PENHALLOW STREETS, COUNTY OF ROCKINGHAM, PORTSMOUTH, NEW HAMPSHIRE. PREPARED BY TOWN PLANNING AND ENGINEERING ASSOC., INC. R.C.R.D. PLAN C-7121.

3) LAND IN PORTSMOUTH COUNTY OF ROCKINGHAM TO CITY OF PORTSMOUTH, PORTSMOUTH, NH. PREPARED BY JOHN W. DURGIN, FILE NUMBER NO. 555 PLAN NO 7171. R.C.R.D. PLAN #01878.

4) SUBDIVISION OF LAND PORTSMOUTH, NH FOR SUSAN PETRIE-CLEMONS. PREPARED BY JOHN W. DURGIN ASSOCIATES, INC. DATED AUGUST 13, 1981. R.C.R.D. PLAN C-11434.

5) AS BUILT PLAN FOR INDIAN HEAD BANK OF PORTSMOUTH, PLEASANT STREET, PORTSMOUTH, N.H. COUNTY OF ROCKINGHAM PREPARED BY TOWN PLANNING AND ENGINEERING ASSOC. INC. DATED JANUARY 29, 1980, FINAL REVISION DATE FEBRUARY 19, 1980. NOT RECORDED.

6) PLAN OF LAND OF PORTSMOUTH TRUST CO., MARKET SQUARE, PORTSMOUTH N.H. PREPARED BY JOHN W. DURGIN CIVIL ENGINEERS, FILE NO. 555 PLAN NO. 6427. DATED JULY 1957. R.C.R.D. PLAN #02644.

7) PLAN OF PROPERTIES ON STATE AND PLEASANT STS., PORTSMOUTH, N.H. OWNED BY FREDERICK GARDNER AND PISCATAQUA BANK. PREPARED BY WILLIAM A. GROVER CIVIL ENGINEER. DATED SEPT 10, 1919. R.C.R.D. PLAN #0249.

8) WATER LINE EASEMENT, 28 PENHALLLOW STREET, PORTSMOUTH, NH. DATED OCTOBER 13, 1989. NOT RECORDED.

9) LOT CONSOLIDATION, PORTSMOUTH N.H. FOR AMERICAN BANK DESIGN. PREPARED BY DURGIN-SCHOFIELD ASSOCIATES. DATED APRIL 20, 1988, FINAL REVISION MAY 17, 1988. R.C.R.D. PLAN D-18233.

10) SUBDIVISION PLAN OF LAND 22 AND 26 MARKET SQUARE, PORTSMOUTH, NEW HAMPSHIRE, COUNTY OF ROCKINGHAM AS PREPARED FOR / OWNER OF RECORD JAMES A. SHANLEY P.O. BOX 1380 PORTSMOUTH, N.H. 03801. PREPARED BY CIVILWORKS, INC. DATED FEBRUARY 15, 1989. R.C.R.D. PLAN D-19371.

11) CONDOMINIUM SITE PLAN OF LAND, 22-26 MARKET SQUARE, PORTSMOUTH, NEW HAMPSHIRE, COUNTY OF ROCKINGHAM, AS PREPARED FOR / OWNER OF RECORD LBJ PROPERTIES, LLC 1618 HIGHWAY 395 MINDEN, NV 94923. PREPARED BY CIVILWORKS, INC. DATED AUGUST 3, 2007, FINAL REVISION MARCH 6, 2009. R.C.R.D. PLAN D-36050.

12) PROPOSED EASEMENT PLAN MAP U-7 - LOT 42 FOR COVENTRY ASSETS, LTD, 30 PENHALLOW STREET PORTSMOUTH, N.H. COUNTY OF ROCKINGHAM. PREPARED BY AMBIT ENGINEERING, INC. DATED OCTOBER 2000. R.C.R.D. PLAN C-28714.

13) EASEMENT RELEASE PLAN MAP U-7 - LOT 42 FOR COVENTRY ASSETS, LTD, 30 PENHALLOW STREET, PORTSMOUTH N.H. COUNTY OF ROCKINGHAM. PREPARED BY AMBIT ENGINEERING. INC. DATED DECEMBER 2000, FINAL REVISION DECEMBER 20, 2000. R.C.R.D. PLAN C-28681.

14) TAX MAP 107 LOT 29 BOUNDARY PLAN OWNER: BNG PROPERTIES, INC. PREPARED FOR: TUSCAN BRANDS LOCATED AT: 14 MARKET SQUARE, PLEASANT STREET & DANIEL STREET, PORTSMOUTH, NEW HAMPSHIRE. PREPARED BY S&H LAND SERVICES, LLC. DATED JANUARY 2, 2019. R.C.R.D. PLAN D-41249.

15) PLAN OF LAND TAX MAP 107 LOTS 39, 40 AND 41, PROPERTY OF HELEN S. BROSSEAU GST EXEMPT TRUST AND HELEN S. BROSSEAU REVOCABLE TRUST OF 2000, 12 PENHALLOW, 191 & 195 STATE STREET, COUNTY OF ROCKINGHAM, PORTSMOUTH NEW HAMPSHIRE. PREPARED BY MSC CIVIL ENGINEERS & LAND SURVEYORS, INC. DATED DECEMBER 12, 2007, FINAL REVISION JANUARY 8, 2008. R.C.R.D. PLAN D-35246.

16) CONDOMINIUM SITE PLAN TAX MAP 107 LOTS 39, 40 AND 41, PROPERTY OF HELEN S. BROSSEAU GST EXEMPT TRUST AND HELEN S. BROSSEAU REVOCABLE TRUST OF 2000, 12 PENHALLOW, 191 & 195 STATE STREET, COUNTY OF ROCKINGHAM, PORTSMOUTH NEW HAMPSHIRE. PREPARED BY MSC CIVIL ENGINEERS & LAND SURVEYORS, INC. DATED JANUARY 31, 2008, FINAL REVISION JUNE 19, 2008. R.C.R.D. PLAN D-335541.

17) PLAN OF A LOT OF LAND IN PORTSMOUTH BELONGING TO JONATHAN M. TREDICK, PORTSMOUTH, NH. PREPARED BY ALFRED M. HOYT, SURVYEOR DATED JULY 1, 1864. R.C.R.D. PLAN #0019.

18) SUBDIVISION PLAN FOR LI JUNE CHEN AND SHIANG TA CHEN, 54 DANIEL ST, PORTSMOUTH, NEW HAMPSHIRE, COUNTY OF ROCKINGHAM. PREPARED BY AMBIT SURVEY. DATED NOVEMBER 1998. R.C.R.D. PLAN D-27033.

19) EASEMENT PLAN OF LAND 26 MARKET SQUARE, PORTSMOUTH, NEW HAMPSHIRE, COUNTY OF ROCKINGHAM, AS PREPARED FOR JAMES A. SHANLEY PO BOX 1380 PORTSMOUTH, NH 03801. PREPARED BY CIVILWORKS, INC. DATED SEPTEMBER 10, 1993. R.C.R.D. PLAN B-22525.

20) DIVISION PLAN, ESTATE OF JOTHAM ODIORNE. c.1774 RP 4093.

AMBIT ENGINEERING, INC.
Civil Engineers & Land Surveyors
200 Griffin Road - Unit 3
Portsmouth, N.H. 03801-7114
Tel (603) 430-9282
Fax (603) 436-2315

NOTES:

1) PARCELS ARE SHOWN ON THE CITY OF PORTSMOUTH ASSESSOR'S MAP 107 AS LOTS 27 & 31.

2) OWNER OF RECORD:
DAGNY TAGGART, LLC
30 PENHALLOW STREET, SUITE 300 EAST
PORTSMOUTH, NH 03801
5990/1701 (LOT 31) & 5990/1703 (LOT 27)
C-7121, C-8101, & D-41408

3) PARCELS ARE NOT IN A SPECIAL FLOOD HAZARD AREA AS SHOWN ON FIRM PANEL 33015C0259E. EFFECTIVE DATE MAY 17, 2005.

4) EXISTING LOT AREAS:

MAP 107 LOT 27
23,279 S.F.
0.5344 ACRES

MAP 107 LOT 31
8,867 S.F.
0.2036 ACRES

5) ASSESSOR'S MAP 107 LOT 27 IS LOCATED IN THE CHARACTER DISTRICT 4 (CD4) ZONING DISTRICT. ASSESSOR'S MAP 107 LOT 31 IS LOCATED IN THE CHARACTER DISTRICT 5 (CD5) ZONING DISTRICT. BOTH PARCELS ARE LOCATED WITHIN THE DOWNTOWN OVERLAY DISTRICT AND THE HISTORIC DISTRICT.

6) DIMENSIONAL REQUIREMENTS:
SEE ZONING ORDINANCE

7) THE PURPOSE OF THIS PLAN IS TO SHOW THE RESULT OF A STANDARD BOUNDARY SURVEY OF ASSESSOR'S MAP 107 LOTS 27 & 31 IN THE CITY OF PORTSMOUTH.

8) SEE SHEET 2 OF 2 FOR EASEMENTS, RESTRICTIONS, AND ENCUMBRANCES.

9) NOT ALL UTILITIES SHOWN HEREON.

LEGEND:

N/F	NOW OR FORMERLY
RP	RECORD OF PROBATE
RCRD	ROCKINGHAM COUNTY REGISTRY OF DEEDS
11/21	MAP 11 / LOT 21
	BOUNDARY
	SETBACK
	RAILROAD SPIKE FOUND
	IRON ROD/PIPE FOUND
	DRILL HOLE FOUND
	STONE/CONCRETE BOUND FOUND
	RAILROAD SPIKE SET
	IRON ROD SET
	DRILL HOLE SET
	GRANITE BOUND SET
S	SEWER LINE
G	GAS LINE
D	STORM DRAIN
W	WATER LINE
	UNDERGROUND ELECTRIC
	OVERHEAD ELECTRIC/WIRES
100	CONTOUR
97x3	SPOT ELEVATION
	EDGE OF PAVEMENT (EP)
	WOODS / TREE LINE
	UTILITY POLE (w/ GUY)
	GAS SHUT OFF
	WATER SHUT OFF/CURB STOP
GV	GATE VALVE
HYD	HYDRANT
G W E	METER (GAS, WATER, ELECTRIC)
	CATCH BASIN
	TELEPHONE MANHOLE
	SEWER MANHOLE
	DRAIN MANHOLE
AC	AIR CONDITIONER UNIT
	SIGNS
AC	ASBESTOS CEMENT PIPE
CI	CAST IRON PIPE
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
COP	COPPER PIPE
DI	DUCTILE IRON PIPE
PVC	POLYVINYL CHLORIDE PIPE
RCP	REINFORCED CONCRETE PIPE
VC	VITRIFIED CLAY PIPE
EL.	ELEVATION
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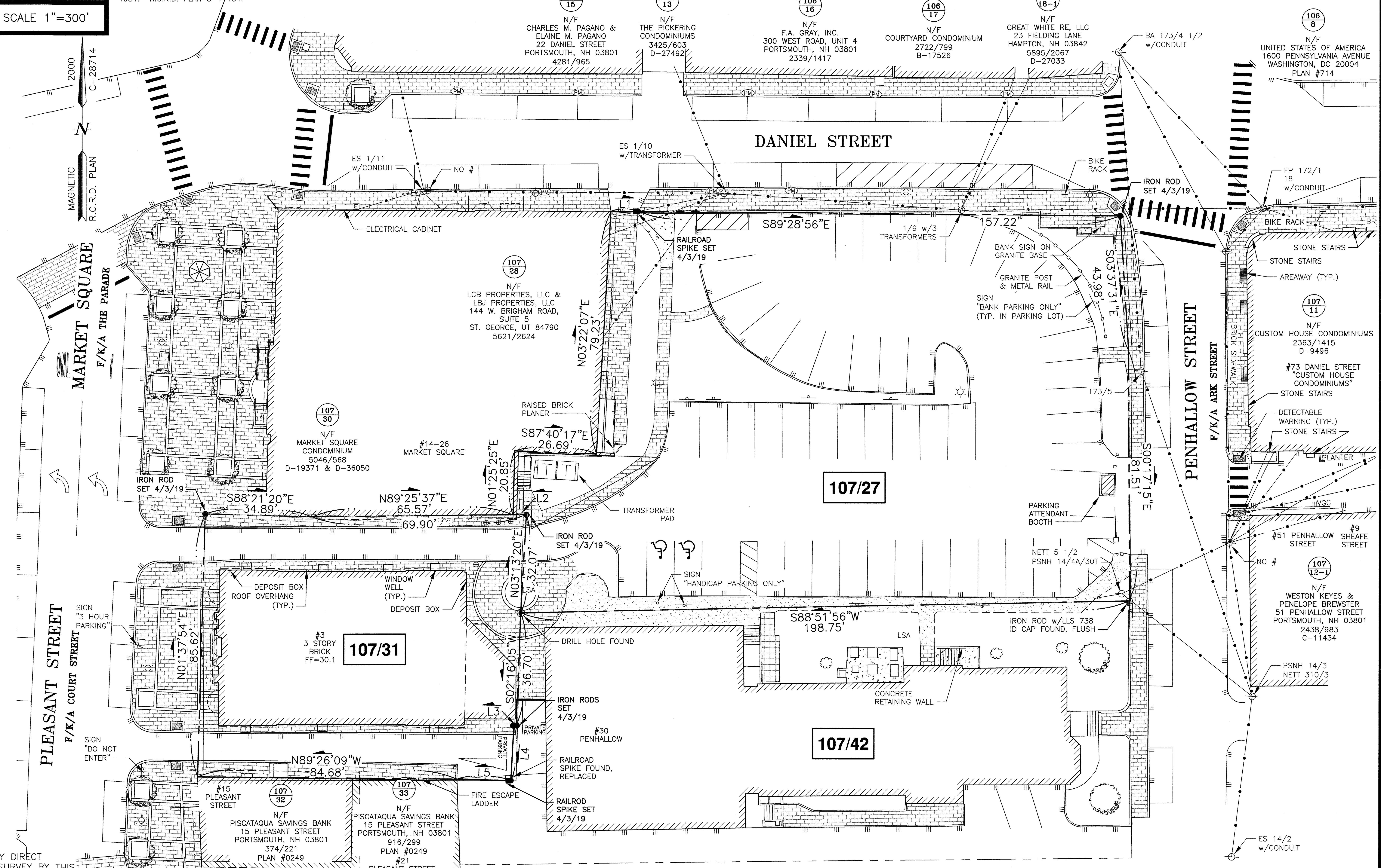
F.F.	FINISHED FLOOR
INV.	INVERT
TBM	TEMPORARY BENCHMARK
TYP.	TYPICAL
VGC/SGC	VERTICAL/SLOPED GRANITE CURB
CCB	CAPE COD BERM
LSA	LANDSCAPED AREA



I CERTIFY THAT THIS PLAN WAS PREPARED UNDER MY DIRECT SUPERVISION, THAT IT IS THE RESULT OF A FIELD SURVEY BY THIS OFFICE AND HAS AN ACCURACY OF THE CLOSED TRAVERSE THAT EXCEEDS THE PRECISION OF 1:15,000.

I CERTIFY THAT THIS SURVEY PLAT IS NOT A SUBDIVISION PURSUANT TO THIS TITLE AND THAT THE LINES OF STREETS AND WAYS SHOWN ARE THOSE OF PUBLIC OR PRIVATE STREETS OR WAYS ALREADY ESTABLISHED AND THAT NO NEW WAYS ARE SHOWN.

PAUL A. DOBBERSTEIN, LLS #1000 — 11/18/2019 DATE

STATE OF NEW HAMPSHIRE — PAUL A. DOBBERSTEIN — No. 1000 — LICENSED LAND SURVEYOR — SIGNATURE

LENGTH TABLE

LINE	BEARING	DISTANCE
L1	S89°30'55"E	9.00'
L2	S89°25'37"W	4.33'
L3	N89°52'12"W	0.76'
L4	S03°04'06"W	17.95'
L5	N88°22'54"W	17.56'

GRAPHIC SCALE: 10 0 20 40 60 80 FEET; 5 0 5 10 15 20 25 METERS

REVISIONS

NO.	DESCRIPTION	DATE
4	ISSUED WITH 60 PENHALLOW	11/18/19
3	MISCELLANEOUS REVISIONS	10/7/19
2	ISSUED WITH TAC SUBMISSION	7/15/19
1	MONUMENTS SET	4/3/19
0	ISSUED FOR COMMENT	3/27/19

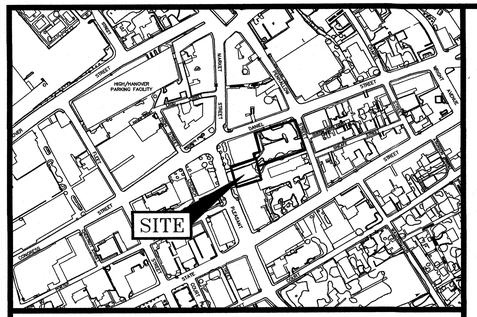
STANDARD BOUNDARY SURVEY
TAX MAP 107 - LOTS 27 & 31

LAND OF:
DAGNY TAGGART, LLC

PROPERTY LOCATED AT:
3 PLEASANT STREET &
60 PENHALLOW STREET
CITY OF PORTSMOUTH
COUNTY OF ROCKINGHAM
STATE OF NEW HAMPSHIRE

SCALE 1"=20' SHEET 1 OF 2 MARCH 2019

FB 402 PG 1 — 3039



LOCATION MAP

2000 C-28714

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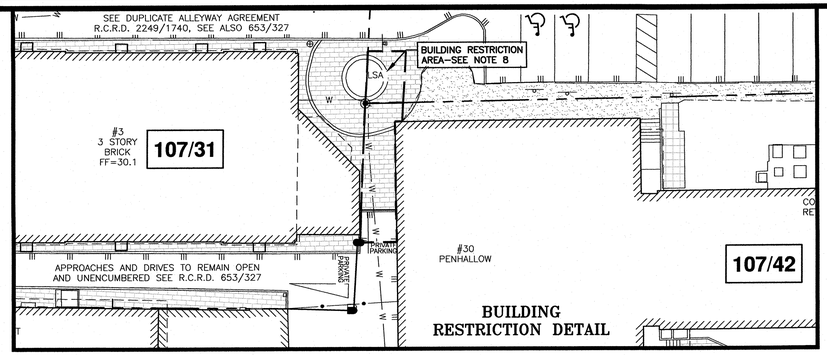
MAGNETIC R.C.R.D. PLAN



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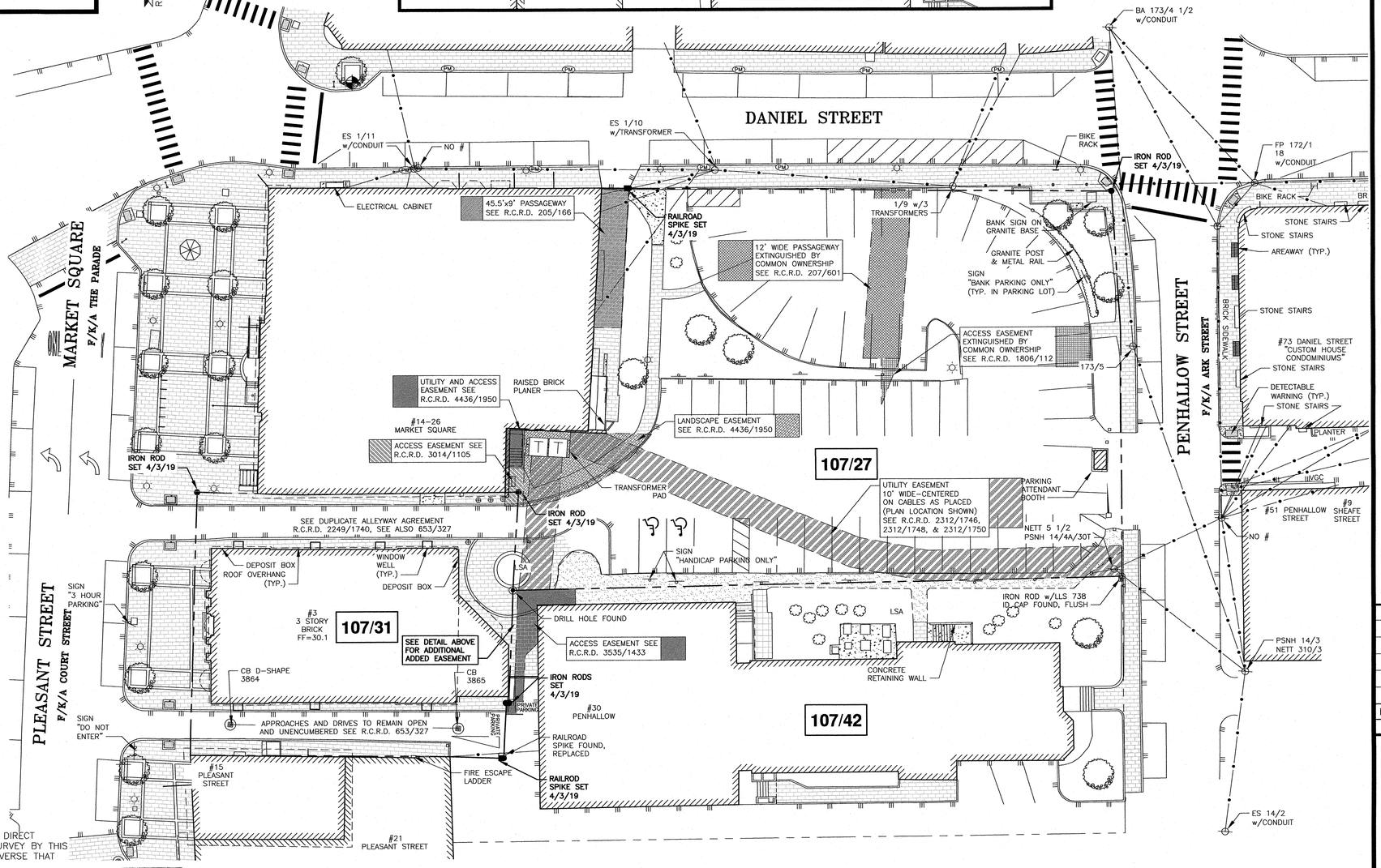

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5 0 5 10 15 20 25 METERS

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STATE OF NEW HAMPSHIRE LICENSED LAND SURVEYOR No. 1000 PAUL A. DOBBERSTEIN SIGNATURE

PAUL A. DOBBERSTEIN, LLS #1000

11/18/2019
DATE

AMBIT ENGINEERING, INC.
Civil Engineers & Land Surveyors
200 Griffin Road – Unit 3
Portsmouth, N.H. 03801-7114
Tel (603) 430-9282
Fax (603) 436-2315

NOTES:

1) PARCELS ARE SHOWN ON THE CITY OF PORTSMOUTH ASSESSOR'S MAP 107 AS LOTS 27 & 31.

2) OWNER OF RECORD:
DAGNY TAGGART, LLC
30 PENHALLOW STREET, SUITE 300 EAST
PORTSMOUTH, NH 03801
5990/1701 (LOT 31) & 5990/1703 (LOT 27)
C-7121, C-8101, & D-41408

3) PARCEL IS NOT IN A SPECIAL FLOOD HAZARD AREA AS SHOWN ON FIRM PANEL 33015C0259E. EFFECTIVE DATE MAY 17, 2005.

4) EXISTING LOT AREAS:

MAP 107 LOT 27
23,279 S.F.
0.5344 ACRES

MAP 107 LOT 31
8,867 S.F.
0.2036 ACRES

5) ASSESSOR'S MAP 107 LOT 27 IS LOCATED IN THE CHARACTER DISTRICT 4 (CD4) ZONING DISTRICT. ASSESSOR'S MAP 107 LOT 31 IS LOCATED IN THE CHARACTER DISTRICT 5 (CD5) ZONING DISTRICT. BOTH PARCELS ARE LOCATED WITHIN THE DOWNTOWN OVERLAY DISTRICT AND THE HISTORIC DISTRICT.

6) DIMENSIONAL REQUIREMENTS:
SEE ZONING ORDINANCE

7) THE PURPOSE OF THIS PLAN IS TO SHOW THE EASEMENTS ASSOCIATED WITH A STANDARD BOUNDARY SURVEY OF ASSESSOR'S MAP 107 LOTS 27 & 31 IN THE CITY OF PORTSMOUTH. ALSO SHOWN IS A PROPOSED EASEMENT RESTRICTING BUILDING CONSTRUCTION ON ASSESSOR'S MAP 107 LOTS 27 & 42.

8) ASSESSOR'S MAP 107 LOTS 27 & 42 WILL BE BURDENED BY A POTENTIAL NO BUILD AREA; SUBJECT TO FINAL DESIGN APPROVAL BY THE PORTSMOUTH BUILDING INSPECTOR'S OFFICE FOR ANY BUILDING CONSTRUCTION ON ASSESSOR'S MAP 107 LOT 31. OWNER SHALL REVIEW APPLICABLE IBC CODES RELATIVE TO THE OPENINGS IN THE 30 PENHALLOW STREET BUILDING AND DESIGN ACCORDINGLY TO COMPLY.

NO.	DESCRIPTION	DATE
	REVISIONS	
4	ISSUED WITH 60 PENHALLOW	11/18/19
3	MISCELLANEOUS REVISIONS	10/7/19
2	ADD BUILDING EASEMENT	7/15/19
1	REVISE PER COMMENTS	3/28/19
0	ISSUED FOR COMMENT	3/27/19

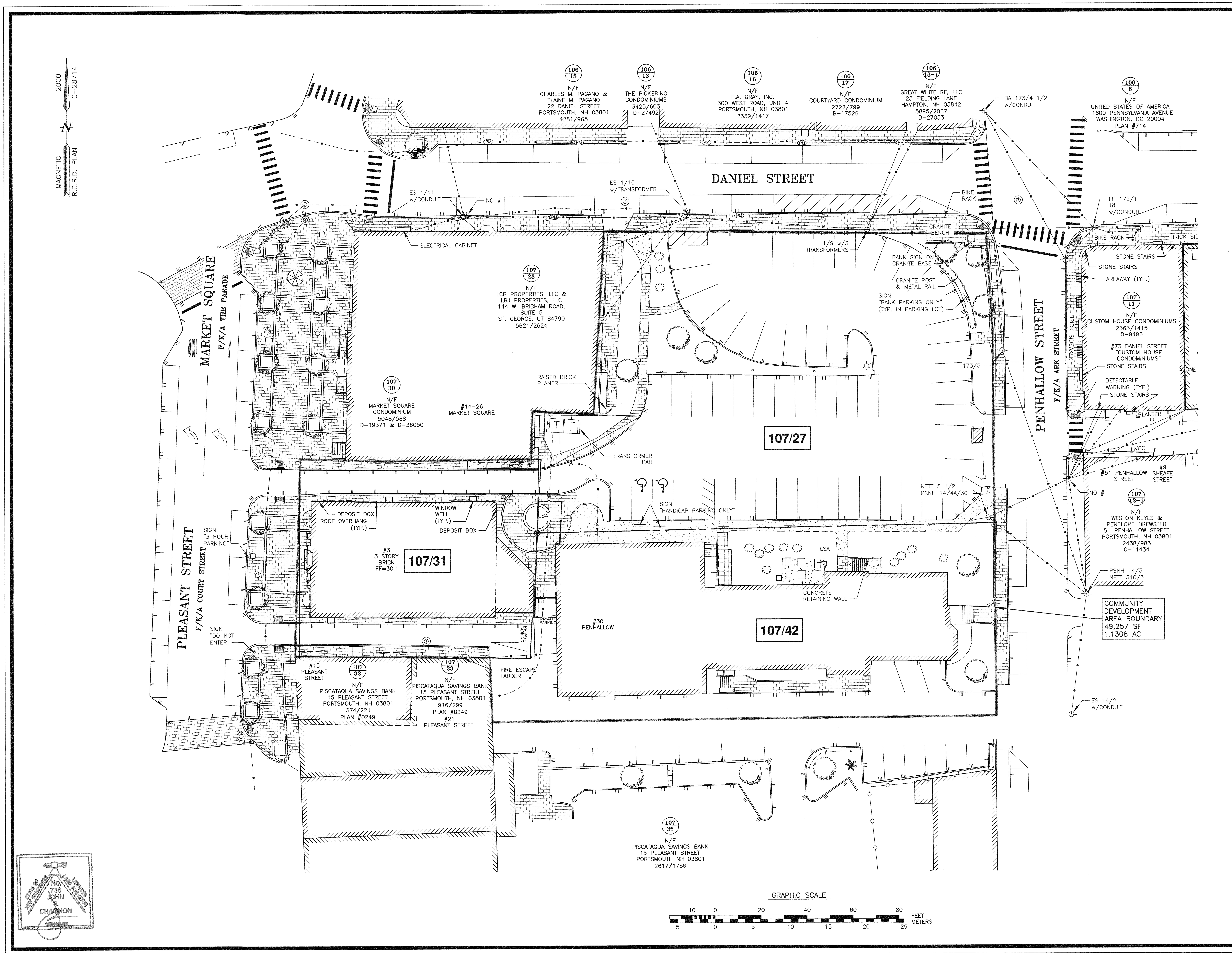
EASEMENT PLAN
TAX MAP 107 – LOTS 27 & 31

LAND OF:
DAGNY TAGGART, LLC

PROPERTY LOCATED AT:
3 PLEASANT STREET &
60 PENHALLOW STREET
CITY OF PORTSMOUTH
COUNTY OF ROCKINGHAM
STATE OF NEW HAMPSHIRE

SCALE 1"=20' SHEET 2 OF 2 MARCH 2019

FB 402 PG 1 3039



AMBIT ENGINEERING, INC.
Civil Engineers & Land Surveyors
200 Griffin Road - Unit 3
Portsmouth, N.H. 03801-7114
Tel (603) 430-9282
Fax (603) 436-2315

NOTES:

1) PARCELS ARE SHOWN ON THE CITY OF PORTSMOUTH ASSESSOR'S MAP 107 AS LOTS 27, 31 & 42.

2) OWNERS OF RECORD:
107/27 & 31
DAGNY TAGGART, LLC
30 PENHALLOW STREET, SUITE 300 EAST
PORTSMOUTH, NH 03801
5990/701 (LOT 31) & 5990/1703 (LOT 27)
C-7121, C-8101, & D-41408

107/42
COVENTRY ASSETS, LTD
30 PENHALLOW STREET, SUITE 300 E
PORTSMOUTH, NH 03801
3067/2440 (LOT 42)
C-28681 & C-28714

3) PARCELS ARE NOT IN A SPECIAL FLOOD HAZARD AREA AS SHOWN ON FIRM PANEL 33015C0259E. EFFECTIVE DATE MAY 17, 2005.

4) EXISTING LOT AREAS:

MAP 107 LOT 27
23,279 S.F.
0.5344 ACRES

MAP 107 LOT 31
8,867 S.F.
0.2036 ACRES

MAP 107 LOT 42
17,111 S.F.
0.3928 ACRES

5) ASSESSOR'S MAP 107 LOTS 27 & 42 ARE LOCATED IN THE CHARACTER DISTRICT 4 (CD4) ZONING DISTRICT. ASSESSOR'S MAP 107 LOT 31 IS LOCATED IN THE CHARACTER DISTRICT 5 (CD5) ZONING DISTRICT. PARCELS ARE LOCATED WITHIN THE DOWNTOWN OVERLAY DISTRICT AND THE HISTORIC DISTRICT.

6) DIMENSIONAL REQUIREMENTS:
SEE ZONING ORDINANCE

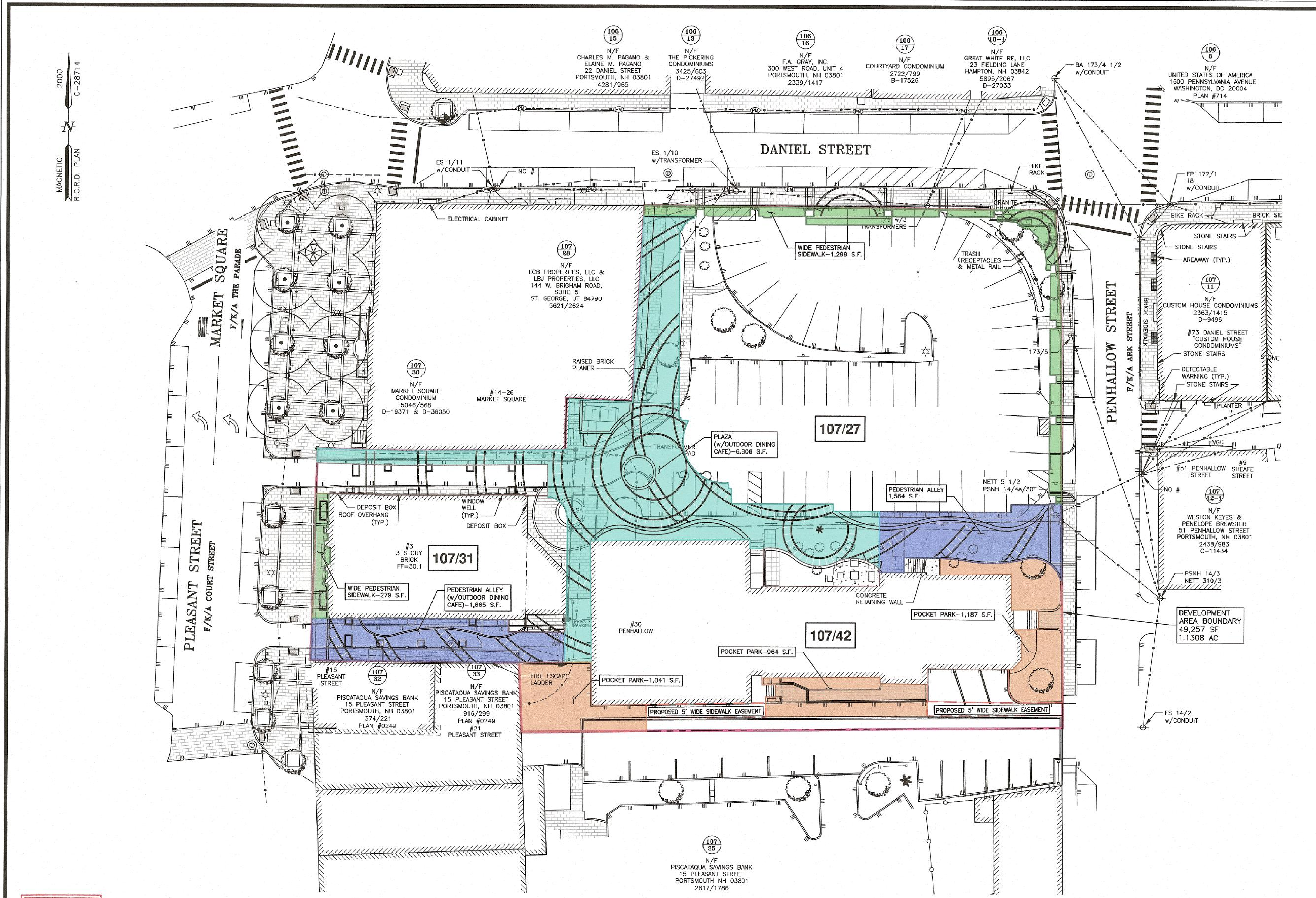
NO.	DESCRIPTION	DATE
2	ISSUED FOR APPROVAL	11/18/19
1	UPDATED FOR 60 PENHALLOW	10/7/19
0	ISSUED FOR COMMENT	7/25/19

REVISIONS

MASTER PLAN
EXISTING CONDITIONS
TAX MAP 107
LOTS 27, 31 & 42
BRICK MARKET
PROPERTY LOCATED AT:
3 PLEASANT STREET
30 PENHALLOW STREET
60 PENHALLOW STREET
CITY OF PORTSMOUTH
COUNTY OF ROCKINGHAM
STATE OF NEW HAMPSHIRE

SCALE 1"=20' JULY 2019

FB 402 PG 1 3039



6,806 S.F. OF PLAZA
3,229 S.F. OF PEDESTRIAN ALLEYS
1,578 S.F. OF WIDE PEDESTRIAN SIDEWALKS
3,192 S.F. OF POCKET PARKS

14,805 S.F. (30.0%) OF DEVELOPMENT AREA

GRAPHIC SCALE
10 0 20 40 60 80 FEET
5 0 5 10 15 20 25 METERS

AMBIT ENGINEERING, INC.
Civil Engineers & Land Surveyors
200 Griffin Road - Unit 3
Portsmouth, N.H. 03801-7114
Tel (603) 430-9282
Fax (603) 436-2315

NOTES:

1) PARCELS ARE SHOWN ON THE CITY OF PORTSMOUTH ASSESSOR'S MAP 107 AS LOTS 27, 31 & 42.

2) OWNERS OF RECORD:
DAGNY TAGGART, LLC
30 PENHALLOW STREET, SUITE 300 EAST
PORTSMOUTH, NH 03801
5990/701 (LOT 31) & 5990/1703 (LOT 27)
C-7121, C-8101, & D-41408

COVENTRY ASSETS, LTD
30 PENHALLOW STREET, SUITE 300 E
PORTSMOUTH, NH 03801
3067/2440 (LOT 42)
C-28681 & C-28714

3) PARCELS ARE NOT IN A SPECIAL FLOOD HAZARD AREA AS SHOWN ON FIRM PANEL 33015C0259E. EFFECTIVE DATE MAY 17, 2005.

4) EXISTING LOT AREAS:

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23,279 S.F.
0.5344 ACRES

MAP 107 LOT 31
8,867 S.F.
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17,111 S.F.
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5) ASSESSOR'S MAP 107 LOTS 27 & 42 ARE LOCATED IN THE CHARACTER DISTRICT 4 (CD4) ZONING DISTRICT. ASSESSOR'S MAP 107 LOT 31 IS LOCATED IN THE CHARACTER DISTRICT 5 (CD5) ZONING DISTRICT. PARCELS ARE LOCATED WITHIN THE DOWNTOWN OVERLAY DISTRICT AND THE HISTORIC DISTRICT.

6) DIMENSIONAL REQUIREMENTS:
SEE ZONING ORDINANCE

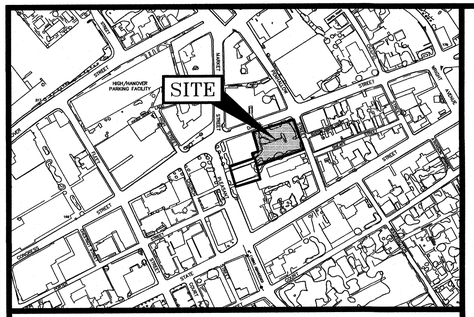
NO.	DESCRIPTION	DATE
6	ISSUED FOR DESIGN REVIEW	12/3/19
5	ISSUED WITH 60 PENHALLOW	11/18/19
4	WALKWAY	10/21/19
3	TRANSFORMER AREA	10/10/19
2	ISSUED FOR 60 PENHALLOW STREET	10/7/19
1	ADD COMMUNITY SPACE AREA	8/28/19
0	ISSUED FOR COMMENT	7/25/19

REVISIONS

BRICK MARKET MASTER PLAN
COMMUNITY SPACE
TAX MAP 107
LOTS 27, 31 & 42
PROPERTY LOCATED AT:
3 PLEASANT STREET
30 PENHALLOW STREET
60 PENHALLOW STREET
CITY OF PORTSMOUTH
COUNTY OF ROCKINGHAM
STATE OF NEW HAMPSHIRE

SCALE 1"=20' JULY 2019

FB 402 PG 1 3039



LOCATION MAP SCALE 1"=300'

2000 C-28714

N

MAGNETIC R.C.R.D. PLAN

LENGTH TABLE

LINE	BEARING	DISTANCE
L1	S89°30'55"E	9.00'
L2	S89°25'37"W	4.33'

DANIEL STREET

12" CI WATER

8" VCP SEWER

ES 1/10 w/TRANSFORMER

1/9 w/3 TRANSFORMERS

BORING LOCATION (TYP.)

BIKE RACK

BANK SIGN ON GRANITE BASE

TRASH RECEPTACLES

SIGN "ONE WAY"

GRANITE POST & METAL RAIL

SIGN "BANK PARKING ONLY" (TYP. IN PARKING LOT)

TBM C SPIKE IN UPOLE EL. 28.69

CB 4363

DMH 5961

SMH 1596

DMH 5961

CB 5964

CB 5965

DMH 5962

CB 4266

CB 5966

CB 4267

DMH 5963

CB 4265

SMH 5518

107/27

EXISTING SINGLE PHASE 240/120V TRANSFORMER TO REMAIN

RAISED BRICK PLANER

TRANSFORMER PAD

PARKING ATTENDANT BOOTH

PARKING BAR GATE

SIGN "HANDICAP PARKING ONLY"

LSA

DRILL HOLE FOUND

CRUSHED STONE WALK

IRON ROD w/LLS 738 ID CAP FOUND, FLUSH

SIGN "3 HOUR PARKING"

NETT 5 1/2 PSNH 14/4A/30T

4" DOGWOOD

18" PE DRAIN

18" PVC SEWER

8" D WATER

PENHALLOW STREET

F/K/A ARK STREET

GRAPHIC SCALE

10 5 0 10 20 30 40 FEET

3 0 5 10 METERS

AMBIT ENGINEERING, INC.
Civil Engineers & Land Surveyors
200 Griffin Road – Unit 3
Portsmouth, N.H. 03801-7114
Tel (603) 430-9282
Fax (603) 436-2315

NOTES:

1) PARCEL IS SHOWN ON THE CITY OF PORTSMOUTH ASSESSOR'S MAP 107 AS LOT 27.

2) OWNER OF RECORD:
DAGNY TAGGART, LLC
30 PENHALLOW STREET, SUITE 300 EAST
PORTSMOUTH, NH 03801

3) PARCEL IS NOT IN A SPECIAL FLOOD HAZARD AREA AS SHOWN ON FIRM PANEL 33015C0259E. EFFECTIVE DATE MAY 17, 2005.

4) LOT AREA:
23,279 S.F.
0.5344 ACRES

5) ASSESSOR'S MAP 107 LOT 27 IS LOCATED IN THE CHARACTER DISTRICT 4 (CD4) ZONING DISTRICT, DOWNTOWN OVERLAY DISTRICT (DOD), AND THE HISTORIC DISTRICT (HDC).

6) DIMENSIONAL REQUIREMENTS:
SEE ZONING ORDINANCE

7) THE PURPOSE OF THIS PLAN IS TO SHOW THE EXISTING CONDITIONS OF ASSESSOR'S MAP 107 LOT 31 IN THE CITY OF PORTSMOUTH.

8) VERTICAL DATUM: MEAN SEA LEVEL NAVD 88
BENCHMARK: NGS
PID OCO 289 (V-31 USGS 1943)
ELEVATION: 29.19

BRICK MARKET
60 PENHALLOW STREET
PORTSMOUTH, N.H.

NO.	DESCRIPTION	DATE
1	ISSUED FOR APPROVAL	11/18/19
0	ISSUED FOR COMMENT	10/8/19

REVISIONS

STATE OF NEW HAMPSHIRE No. 738 JOHN R. CHAGNON LICENSED LAND SURVEYOR

SCALE: 1'=10' OCTOBER 2019

EXISTING CONDITIONS PLAN

C1

FB 402 PG 1

3039

DEMOLITION NOTES

A) THE LOCATIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE AND THE LOCATIONS ARE NOT GUARANTEED BY THE OWNER OR THE DESIGNER. IT IS THE CONTRACTORS' RESPONSIBILITY TO LOCATE UTILITIES AND ANTICIPATE CONFLICTS. CONTRACTOR SHALL REPAIR EXISTING UTILITIES DAMAGED BY THEIR WORK AND RELOCATE EXISTING UTILITIES THAT ARE REQUIRED TO BE RELOCATED PRIOR TO COMMENCING ANY WORK IN THE IMPACTED AREA OF THE PROJECT.

B) ALL MATERIALS SCHEDULED TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTORS UNLESS OTHERWISE SPECIFIED. THE CONTRACTOR SHALL DISPOSE OF ALL MATERIALS OFF-SITE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS, ORDINANCES AND CODES. THE CONTRACTOR SHALL COORDINATE REMOVAL, RELOCATION, DISPOSAL, OR SALVAGE OF UTILITIES WITH THE OWNER AND APPROPRIATE UTILITY COMPANY.

C) ANY EXISTING WORK OR PROPERTY DAMAGED OR DISRUPTED BY CONSTRUCTION/ DEMOLITION ACTIVITIES SHALL BE REPLACED OR REPAIRED TO THE ORIGINAL EXISTING CONDITIONS BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

D) THE CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES AND CALL DIG SAFE AT LEAST 72 HOURS PRIOR TO THE COMMENCEMENT OF ANY DEMOLITION/CONSTRUCTION ACTIVITIES.

E) SAWCUT AND REMOVE PAVEMENT ONE FOOT OFF PROPOSED EDGE OF PAVEMENT OR EXISTING CURB LINE IN AREAS WHERE PAVEMENT TO BE REMOVED ABUTS EXISTING PAVEMENT OR CONCRETE TO REMAIN.

F) IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH THE CONDITIONS OF ALL THE PERMIT APPROVALS.

G) THE CONTRACTOR SHALL OBTAIN AND PAY FOR ADDITIONAL CONSTRUCTION PERMITS, NOTICES AND FEES NECESSARY TO COMPLETE THE WORK AND ARRANGE FOR AND PAY FOR ANY INSPECTIONS AND APPROVALS FROM THE AUTHORITIES HAVING JURISDICTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL AND OFF-SITE DISPOSAL OF MATERIALS REQUIRED TO COMPLETE THE WORK.

H) THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING STRUCTURES, CONCRETE, UTILITIES, VEGETATION, PAVEMENT, AND CONTAMINATED SOIL WITHIN THE WORK LIMITS SHOWN UNLESS SPECIFICALLY IDENTIFIED TO REMAIN. ANY EXISTING MONITORING WELLS IN THE PROJECT AREA IDENTIFIED DURING THE CONSTRUCTION AND NOT CALLED OUT ON THE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER TO COORDINATE MONITORING WELL REMOVAL AND/OR RELOCATION WITH NHDES AND OTHER AUTHORITY WITH JURISDICTION PRIOR TO CONSTRUCTION.

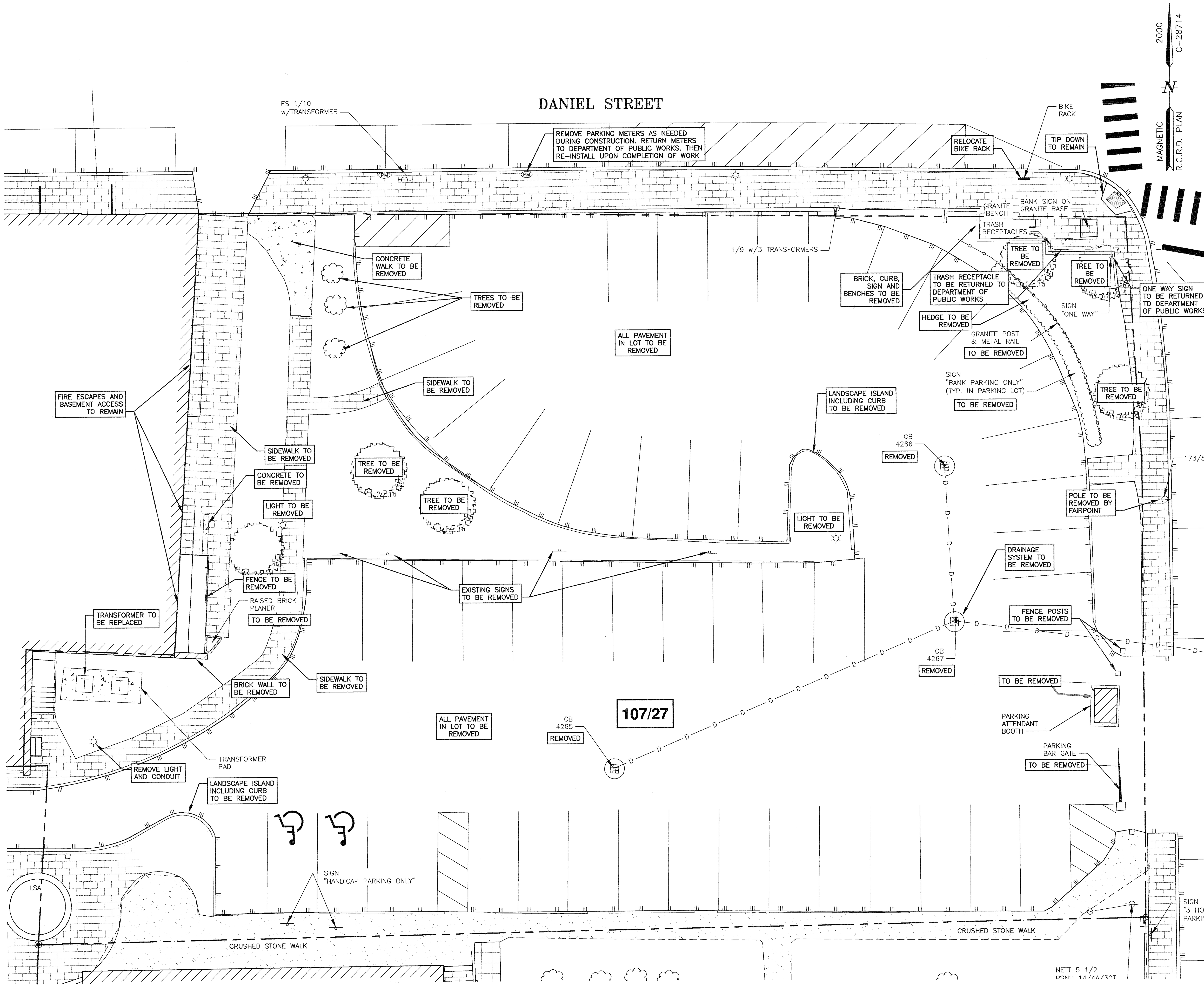
I) ALL WORK WITHIN THE CITY OF PORTSMOUTH RIGHT OF WAY SHALL BE COORDINATED WITH THE CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC WORKS (DPW).

J) CONTRACTOR SHALL PROTECT ALL PROPERTY MONUMENTATION THROUGHOUT DEMOLITION AND CONSTRUCTION OPERATIONS. SHOULD ANY MONUMENTATION BE DISTURBED, THE CONTRACTOR SHALL EMPLOY A NH LICENSED LAND SURVEYOR TO REPLACE THEM.

K) PROVIDE INLET PROTECTION BARRIERS AT ALL CATCH BASINS WITHIN CONSTRUCTION LIMITS AND IMMEDIATELY OFF-SITE TO BE MAINTAIN FOR THE DURATION OF THE PROJECT. INLET PROTECTION BARRIERS SHALL BE HIGH FLOW SILT SACK BY ACF ENVIRONMENTAL OR APPROVED EQUAL. INSPECT BARRIERS WEEKLY AND AFTER EACH RAIN OF 0.25 INCHES OR GREATER. CONTRACTOR SHALL COMPLETE A MAINTENANCE INSPECTION REPORT AFTER EACH INSPECTION. SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH STORM EVENT OR MORE OFTEN IF WARRANTED OR FABRIC BECOMES CLOGGED. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF ANY CLEARING OR DEMOLITION ACTIVITIES.

L) THE CONTRACTOR SHALL PAY ALL COSTS NECESSARY FOR TEMPORARY PARTITIONING, BARRICADING, FENCING, SECURITY AND SAFELY DEVICES REQUIRED FOR THE MAINTENANCE OF A CLEAN AND SAFE CONSTRUCTION SITE.

M) ANY CONTAMINATED MATERIAL REMOVED DURING THE COURSE OF THE WORK WILL REQUIRE HANDLING IN ACCORDANCE WITH NHDES REGULATIONS. CONTRACTOR SHALL HAVE A HEALTH AND SAFETY PLAN IN PLACE, AND COMPLY WITH ALL APPLICABLE PERMITS, APPROVALS, AUTHORIZATIONS, AND REGULATIONS



GRAPHIC SCALE

10 5 0 10 20 30 40 FEET

3 0 5 10 METERS

APPROVED BY THE PORTSMOUTH PLANNING BOARD

CHAIRMAN

DATE

AMBIT ENGINEERING, INC.
Civil Engineers & Land Surveyors
200 Griffin Road - Unit 3
Portsmouth, N.H. 03801-7114
Tel (603) 430-9282
Fax (603) 436-2315

NOTES:

1) THE CONTRACTOR SHALL NOTIFY DIG SAFE AT 1-888-DIG-SAFE (1-888-344-7233) AT LEAST 72 HOURS PRIOR TO COMMENCING ANY EXCAVATION ON PUBLIC OR PRIVATE PROPERTY.

2) UNDERGROUND UTILITY LOCATIONS ARE BASED UPON BEST AVAILABLE EVIDENCE AND ARE NOT FIELD VERIFIED. LOCATING AND PROTECTING ANY ABOVEGROUND OR UNDERGROUND UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND/OR THE OWNER. UTILITY CONFLICTS SHOULD BE REPORTED AT ONCE TO THE DESIGN ENGINEER.

3) CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE "NEW HAMPSHIRE STORMWATER MANUAL, VOLUME 3, EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION. (NHDES DECEMBER 2008).

BRICK MARKET
60 PENHALLOW STREET
PORTSMOUTH, N.H.

NO.	DESCRIPTION	DATE
1	ISSUED FOR APPROVAL	11/18/19
0	ISSUED FOR COMMENT	10/8/19

REVISIONS

STATE OF NEW HAMPSHIRE JOHN R. CHAGNON No. 7851 LICENSED PROFESSIONAL ENGINEER

SCALE: 1'=10' OCTOBER 2019

DEMOLITION PLAN C2

FB 402 PG 1

3039

ZONING DEVELOPMENT STANDARD

CD4: CHARACTER DISTRICT 4

DOWNTOWN OVERLAY DISTRICT AND HISTORIC DISTRICT

BUILDING PLACEMENT (PRINCIPAL):

	REQUIRED	107/27 (60 PENHALLOW ST) EXISTING NO BUILDING	PROPOSED
MAX. PRINCIPAL FRONT YARD:	10 FEET	N/A	0.5 FEET
MIN. SIDE YARD:	NR	N/A	3.8 FEET
MIN. REAR YARD:	5 FEET*	N/A	14.8 FEET
FRONT LOT LINE BUILDOUT:	50% MIN	N/A	96%

* REAR SETBACK: 5' (REAR LINE) OR 10' (ALLEY CENTERLINE)

BUILDING TYPES:

BUILDING TYPES: OFFICE, FOOD SERVICE

DOWNTOWN OVERLAY DISTRICT DOES NOT PERMIT RESIDENTIAL USES FOR GROUND FLOOR. ENTRY CAN NOT EXCEED 20% OF GROUND FLOOR AREA (N/A).

FACADE TYPE: SHOPFRONT

BUILDING FORM:

	REQUIRED	EXISTING	PROPOSED
MAX STRUCTURE HEIGHT:	40 FEET*	N/A	39'–10"
MAX. FINISHED FLOOR SURFACE OF GROUND FLOOR ABOVE SIDEWALK GRADE:	36 INCHES	N/A	<36 INCHES
MIN. GROUND STORY HEIGHT:	12 FEET	N/A	14'–0"
MIN. SECOND STORY HEIGHT	10 FEET	N/A	10'–0"
FACADE GLAZING (WINDOW/PERIMETER):	70% SHOP 20–50% OTHER	N/A	OTHER 33–44%

ROOF TYPE: CURVED GABLE

LOT OCCUPATION:

	REQUIRED	EXISTING	PROPOSED
MAX BUILDING BLOCK:	200 FEET	N/A	150 FEET
MAX FACADE MOD. LENGTH:	80 FEET	–	45'–11"
MAX. ENTRANCE SPACING:	50 FEET	–	40'–0"
MAX BUILDING COVERAGE:	90%	0%	73.9%
MAX BUILDING FOOTPRINT:	20,000 SF**	NONE	17,200 SF
MIN. LOT AREA:	NR	23,279 SF	23,279 SF
MIN. LOT AREA/DWELLING (LOT AREA/# OF UNITS):	NR	–	N/A
MIN. OPEN SPACE :	10%	N/A	26%
MAX. GROUND FLOOR GFA PER USE	15,000 SF	N/A	TBD

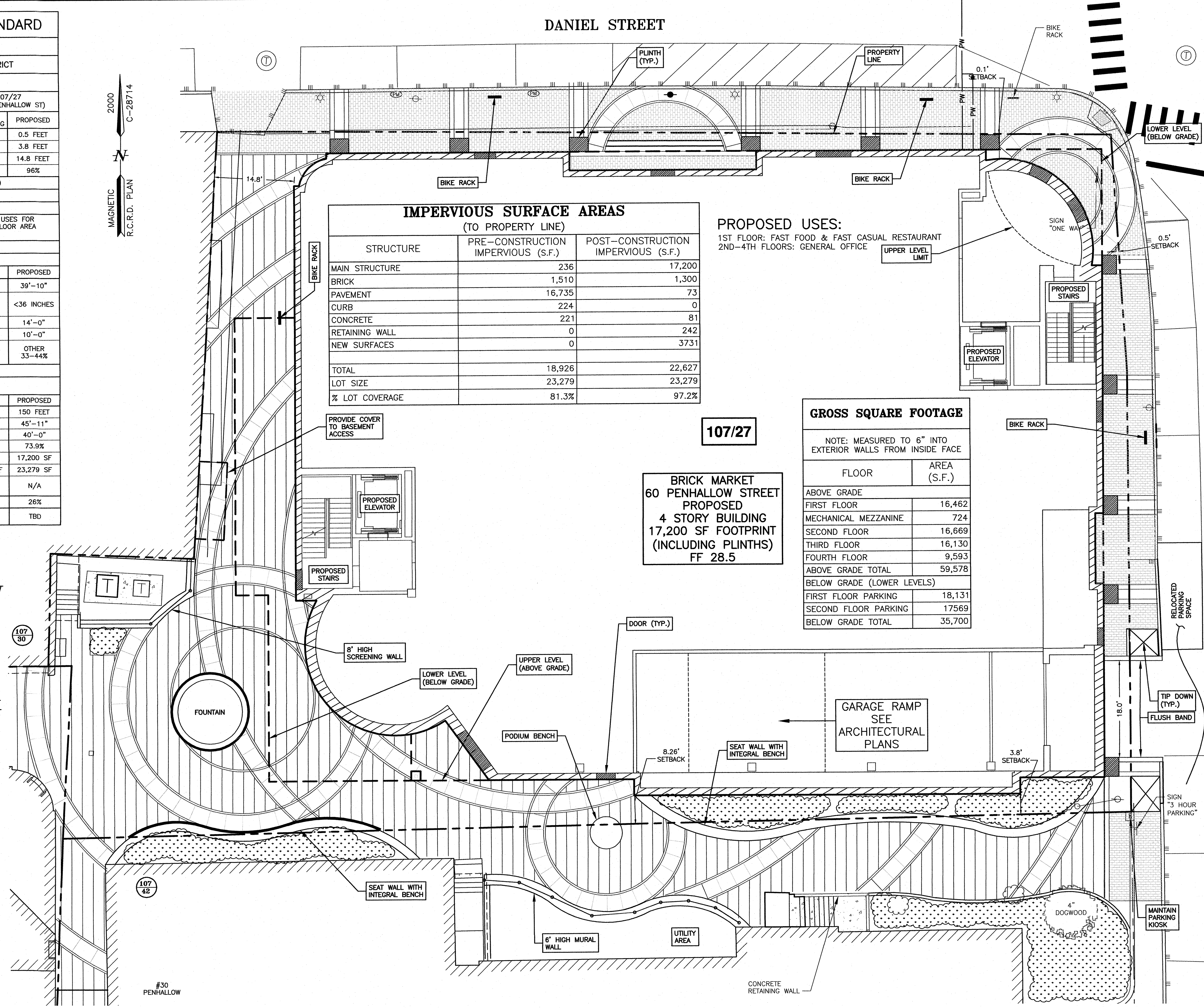
*50 FOOT WITH COMMUNITY SPACE INCENTIVE
** WITH COMMUNITY SPACE INCENTIVE

PORTSMOUTH APPROVAL CONDITIONS NOTES:

1) *ALL CONDITIONS ON THIS PLAN SET SHALL REMAIN IN EFFECT IN PERPETUITY PURSUANT TO THE REQUIREMENTS OF THE CITY OF PORTSMOUTH SITE PLAN REVIEW REGULATIONS.*

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

3) *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.*



IMPERVIOUS SURFACE AREAS

(TO PROPERTY LINE)

STRUCTURE	PRE-CONSTRUCTION IMPERVIOUS (S.F.)	POST-CONSTRUCTION IMPERVIOUS (S.F.)
MAIN STRUCTURE	236	17,200
BRICK	1,510	1,300
PAVEMENT	16,735	73
CURB	224	0
CONCRETE	221	81
RETAINING WALL	0	242
NEW SURFACES	0	3731
TOTAL	18,926	22,627
LOT SIZE	23,279	23,279
% LOT COVERAGE	81.3%	97.2%

PROPOSED USES:

1ST FLOOR: FAST FOOD & FAST CASUAL RESTAURANT
2ND–4TH FLOORS: GENERAL OFFICE

GROSS SQUARE FOOTAGE

NOTE: MEASURED TO 6" INTO EXTERIOR WALLS FROM INSIDE FACE

FLOOR	AREA (S.F.)
ABOVE GRADE	
FIRST FLOOR	16,462
MECHANICAL MEZZANINE	724
SECOND FLOOR	16,669
THIRD FLOOR	16,130
FOURTH FLOOR	9,593
ABOVE GRADE TOTAL	59,578
BELOW GRADE (LOWER LEVELS)	
FIRST FLOOR PARKING	18,131
SECOND FLOOR PARKING	17569
BELOW GRADE TOTAL	35,700

GRAPHIC SCALE

10 5 0 10 20 30 40 FEET
3 0 5 10 METERS

APPROVED BY THE PORTSMOUTH PLANNING BOARD

CHAIRMAN

DATE

AMBIT ENGINEERING, INC.
Civil Engineers & Land Surveyors
200 Griffin Road – Unit 3
Portsmouth, N.H. 03801-7114
Tel (603) 430-9282
Fax (603) 436-2315

NOTES:

1) PARCEL IS SHOWN ON THE CITY OF PORTSMOUTH ASSESSOR'S MAP 107 AS LOT 27.

2) OWNER OF RECORD:

DAGNY TAGGART, LLC
30 PENHALLOW STREET, SUITE 300 EAST
PORTSMOUTH, NH 03801

3) PARCEL IS NOT IN A SPECIAL FLOOD HAZARD AREA AS SHOWN ON FIRM PANEL 33015C0259E. EFFECTIVE DATE MAY 17, 2005.

4) EXISTING LOT AREA:
23,279 S.F.
0.5344 ACRES

5) ASSESSOR'S MAP 107 LOT 27 IS LOCATED IN THE CHARACTER DISTRICT 4 (CD4) ZONING DISTRICT. PARCEL IS LOCATED WITHIN THE DOWNTOWN OVERLAY DISTRICT (DOD) AND THE HISTORIC DISTRICT (HDC).

6) PARKING SPECIFICATIONS: NO PARKING REQUIRED. SUBSURFACE PARKING PROVIDED.

7) THE PURPOSE OF THIS PLAN IS TO SHOW SITE LAYOUT FOR BUILDING ON ASSESSOR'S MAP 107 LOT 27 IN THE CITY OF PORTSMOUTH.

8) THE CONTRACTOR SHALL NOTIFY DIG SAFE AT 1-888-DIG-SAFE (1-888-344-7233) AT LEAST 72 HOURS PRIOR TO COMMENCING ANY EXCAVATION ON PUBLIC OR PRIVATE PROPERTY.

9) UNDERGROUND UTILITY LOCATIONS ARE BASED UPON BEST AVAILABLE EVIDENCE AND ARE NOT FIELD VERIFIED. LOCATING AND PROTECTING ANY ABOVEGROUND OR UNDERGROUND UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND/OR THE OWNER. UTILITY CONFLICTS SHOULD BE REPORTED AT ONCE TO THE DESIGN ENGINEER.

10) CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE "NEW HAMPSHIRE STORMWATER MANUAL, VOLUME 3, EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION. (NHDES DECEMBER 2008).

11) SEE LANDSCAPE PLANS FOR PROPOSED SURFACE TREATMENTS.

12) SNOW SHALL BE REMOVED FROM THE SITE.

BRICK MARKET 60 PENHALLOW STREET PORTSMOUTH, N.H.

NO.	DESCRIPTION	DATE
2	ISSUED FOR DESIGN REVIEW	12/2/19
1	ISSUED FOR APPROVAL	11/18/19
0	ISSUED FOR REVIEW	10/8/19

REVISIONS

STATE OF NEW HAMPSHIRE JOHN R. CHAGNON No. 7852 LICENSED PROFESSIONAL ENGINEER

STATE OF NEW HAMPSHIRE No. 738 JOHN R. CHAGNON LICENSED LAND SURVEYOR

SCALE: 1"=10' OCTOBER 2019

SITE LAYOUT PLAN C3

FB 402 PG 1 3039

Landscape Notes

1. Design is based on drawings by Ambit Engineering dated November 18, 2019 and may require adjustment due to actual field conditions.
2. The contractor shall follow best management practices during construction and shall take all means necessary to stabilize and protect the site from erosion.
3. Erosion Control shall be in place prior to construction.
4. The Contractor shall verify layout and grades and inform the Landscape Architect or Client's Representative of any discrepancies or changes in layout and/or grade relationships prior to construction.
5. It is the contractor's responsibility to verify drawings provided are to the correct scale prior to any bid, estimate or installation. A graphic scale bar has been provided on each sheet for this purpose. If it is determined that the scale of the drawing is incorrect, the landscape architect will provide a set of drawings at the correct scale, at the request of the contractor.
6. Trees to Remain within the construction zone shall be protected from damage for the duration of the project by snow fence or other suitable means of protection to be approved by Landscape Architect or Client's Representative. Snow fence shall be located at the drip line at a minimum and shall include any and all surface roots. Do not fill or mulch on the trunk flare. Do not disturb roots. In order to protect the integrity of the roots, branches, trunk and bark of the tree(s) no vehicles or construction equipment shall drive or park in or on the area within the drip line(s) of the tree(s). Do not store any refuse or construction materials or portalets within the tree protection area.
7. This plan is for review purposes only, NOT for Construction. Construction Documents will be provided upon request.
8. Location, support, protection, and restoration of all existing utilities and appurtenances shall be the responsibility of the Contractor.
9. The Contractor shall verify exact location and elevation of all utilities with the respective utility owners prior to construction. Call DIGSAFE at 1-888-344-7233.
10. The Contractor shall procure any required permits prior to construction.
11. Prior to any landscape construction activities Contractor shall test all existing loam and loam from off-site intended to be used for lawns and plant beds using a thorough sampling throughout the supply. Soil testing shall indicate levels of pH, nitrates, macro and micro nutrients, texture, soluble salts, and organic matter. Contractor shall provide Landscape Architect with test results and recommendations from the testing facility along with soil amendment plans as necessary for the proposed plantings to thrive. All loam to be used on site shall be amended as approved by the Landscape Architect prior to placement.
12. Contractor shall notify landscape architect or owner's representative immediately if at any point during demolition or construction a site condition is discovered which may negatively impact the completed project. This includes, but is not limited to, unforeseen drainage problems, unknown subsurface conditions, and discrepancies between the plan and the site. If a contractor is aware of a potential issue, and does not bring it to the attention of the landscape architect or owner's representative immediately, they may be responsible for the labor and materials associated with correcting the problem.
13. The Contractor shall furnish and plant all plants shown on the drawings and listed thereon. All plants shall be nursery-grown under climatic conditions similar to those in the locality of the project. Plants shall conform to the botanical names and standards of size, culture, and quality for the highest grades and standards as adopted by the American Association of Nurserymen, Inc. in the American Standard of Nursery Stock, American Standards Institute, Inc. 230 Southern Building, Washington, D.C. 20005.
14. A complete list of plants, including a schedule of sizes, quantities, and other requirements is shown on the drawings. In the event that quantity discrepancies or material omissions occur in the plant materials list, the planting plans shall govern.
15. All plants shall be legibly tagged with proper botanical name.
16. The Contractor shall guarantee all plants for not less than one year from time of acceptance.
17. Owner or Owner's Representative will inspect plants upon delivery for conformity to Specification requirements. Such approval shall not affect the right of inspection and rejection during or after the progress of the work. The Owner reserves the right to inspect and/or select all trees at the place of growth and reserves the right to approve a representative sample of each type of shrub, herbaceous perennial, annual, and ground cover at the place of growth. Such sample will serve as a minimum standard for all plants of the same species used in this work.
18. No substitutions of plants may be made without prior approval of the Owner or the Owner's Representative for any reason.
19. All landscaping shall be provided with either of the following
    a. An underground sprinkling system
    b. An outside hose attachment within 150 feet
20. If an automatic irrigation system is installed, all irrigation valve boxes shall be located within planting bed areas.
21. The contractor is responsible for all plant material from the time their work commences until final acceptance. This includes but is not limited to maintaining all plants in good condition, the security of the plant material once delivered to the site, and watering of plants. Plants shall be appropriately watered prior to, during and after planting. It is the contractor's responsibility to provide water from off site, should it not be available on site.
22. All disturbed areas will be dressed with 6" of topsoil and planted as noted on the plans or seeded except plant beds. Plant beds shall be prepared to a depth of 12" with 75% loam and 25% compost.
23. Trees, ground cover, and shrub beds shall be mulched to a depth of 2" with one-year-old, well-composted, shredded native bark not longer than 4" in length and ½" in width, free of woodchips and sawdust. Mulch for ferns and herbaceous perennials shall be no longer than 1" in length. Trees in lawn areas shall be mulched in a 5' diameter min. saucer. Color of mulch shall be black.
24. In no case shall mulch touch the stem of a plant nor shall mulch ever be more than 3" thick total (including previously applied mulch) over the root ball of any plant.
25. Secondary lateral branches of deciduous trees overhanging vehicular and pedestrian travel ways shall be pruned up to a height of 6' to allow clear and safe passage of vehicles and pedestrians under tree canopy.
26. Snow shall be removed from the site.
27. Landscape Architect is not responsible for the means and methods of the contractor.

City of Portsmouth Notes

1. The property owner and all future property owners shall be responsible for the maintenance, repair and replacement of all required screening and landscape materials.
2. 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.
3. 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.

Plant List

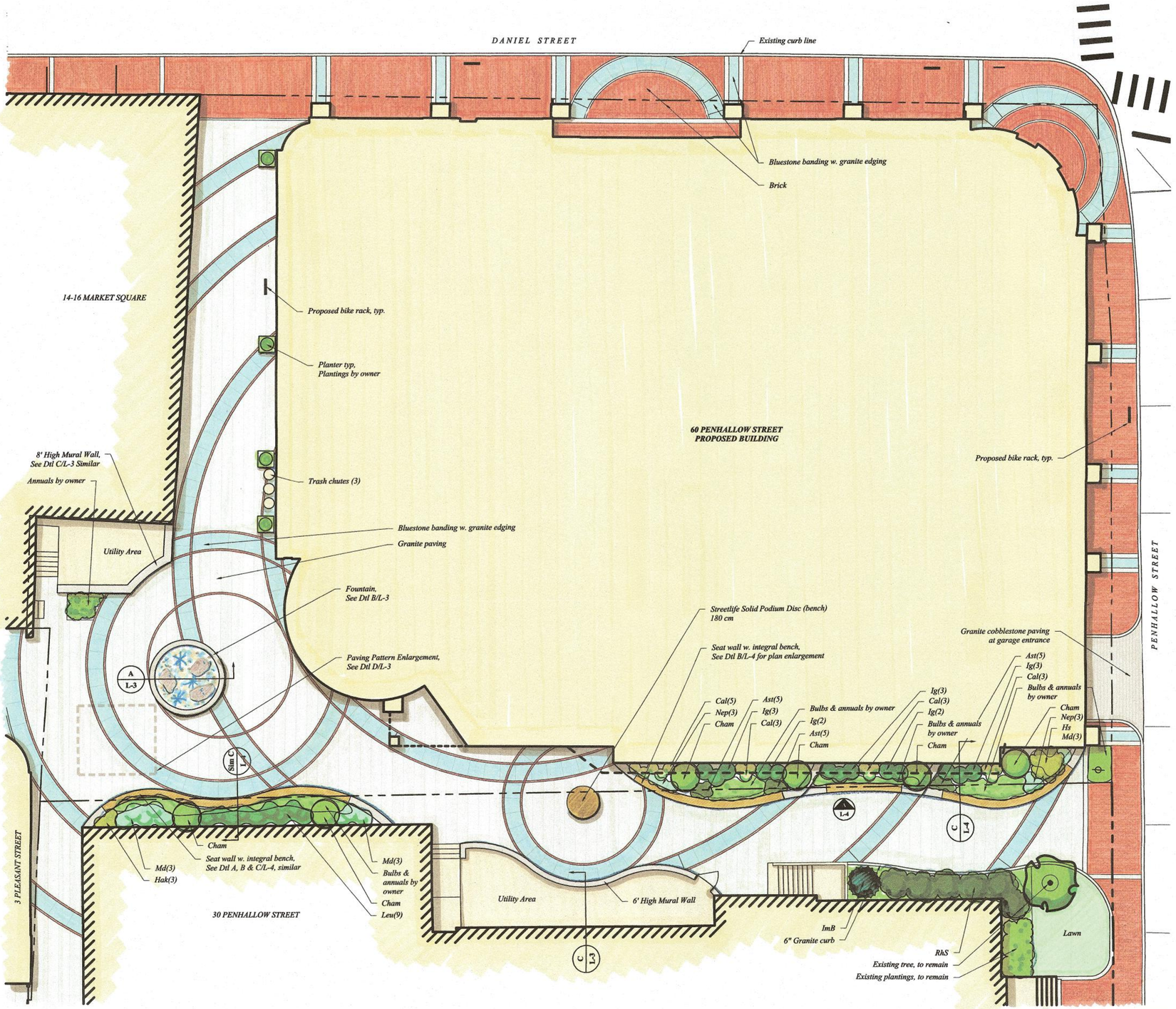
Plant List

SHRUBS

Symbol	Botanical Name	Common Name	Quantity	Size	Comments
Cham	*Chamaecyparis obtusa 'Gracilis'*	Gracilis Falsecypress	6	7-8' ht	B&B Matched Specimen
Hs	*Hibiscus syriacus 'Ardens'*	Ardens Rose-of -Sharon	1	6-7' ht	B&B Full
Ig	*Ilex glabra 'Shamrock'*	Shamrock Inkberry	13	5 gal	Full
ImB	*Ilex meserve 'Blue Maid'*	Blue Maid Holly	1	6-7' ht	B&B Full
Leu	*Leucothoe fontanesiana 'Silver Run'*	Silver Run Leucothoe	9	3 gal	
Md	*Microbiota decussata*	Russian Cypress	9	5 gal	
RhS	*Rhododendron 'Scintillation'*	Scintillation Rhododendron	6	2.5-3' ht	B&B

PERENNIALS, GROUNDCOVERS, VINES and ANNUALS

Symbol	Botanical Name	Common Name	Quantity	Size	Comments
Ast	*Astilbe 'Fanal'*	Rubyred Astilbe	15	1 gal	
Cal	*Calamagrostis acutifolia 'Karl Foerster'*	Feather Reed Grass	14	3 gal	
Hak	*Hakonechloa macra 'Aureola'*	Golden Japanese Forest Grass	3	1 gal	
Nep	*Nepeta faassenii x 'Six Hills Giant'*	Lavender blue Catmint	6	1 gal	



PAVING MATERIALS LIST

	MATERIAL	FINISH	DIMENSIONS	NOTES
Bluestone Banding	Select Bluestone	Thermal	3' W x 3'+/- L x 4" thick	Custom radius pieces (see plans). Contractor to provide shop drawings. Select stone for greenish blue color tones, without reeds or spalling.
Granite Paving	Deer Isle Granite	Thermal	2' W x 3' L x 4" thick	
Granite Edging in Plaza	Wausau Granite	Thermal	4" W x 4" L x 4" thick	
Granite Edging in Sidewalk	To match existing	To match existing	Thickness to match brick	Length and width dimensions vary, see plan.
Brick	Clay paving brick			Specification TBD

woodburn & company
LANDSCAPE ARCHITECTURE
103 Kent Place Newmarket, New Hampshire Phone: 603.659.5949

Brick Market

60 PENHALLOW LANDSCAPE PLAN

Portsmouth, New Hampshire

Drawn By:	VM
Checked By:	RW
Scale:	1" = 10' - 0"
Date:	November 18, 2019
Revisions:	November 26, 2019

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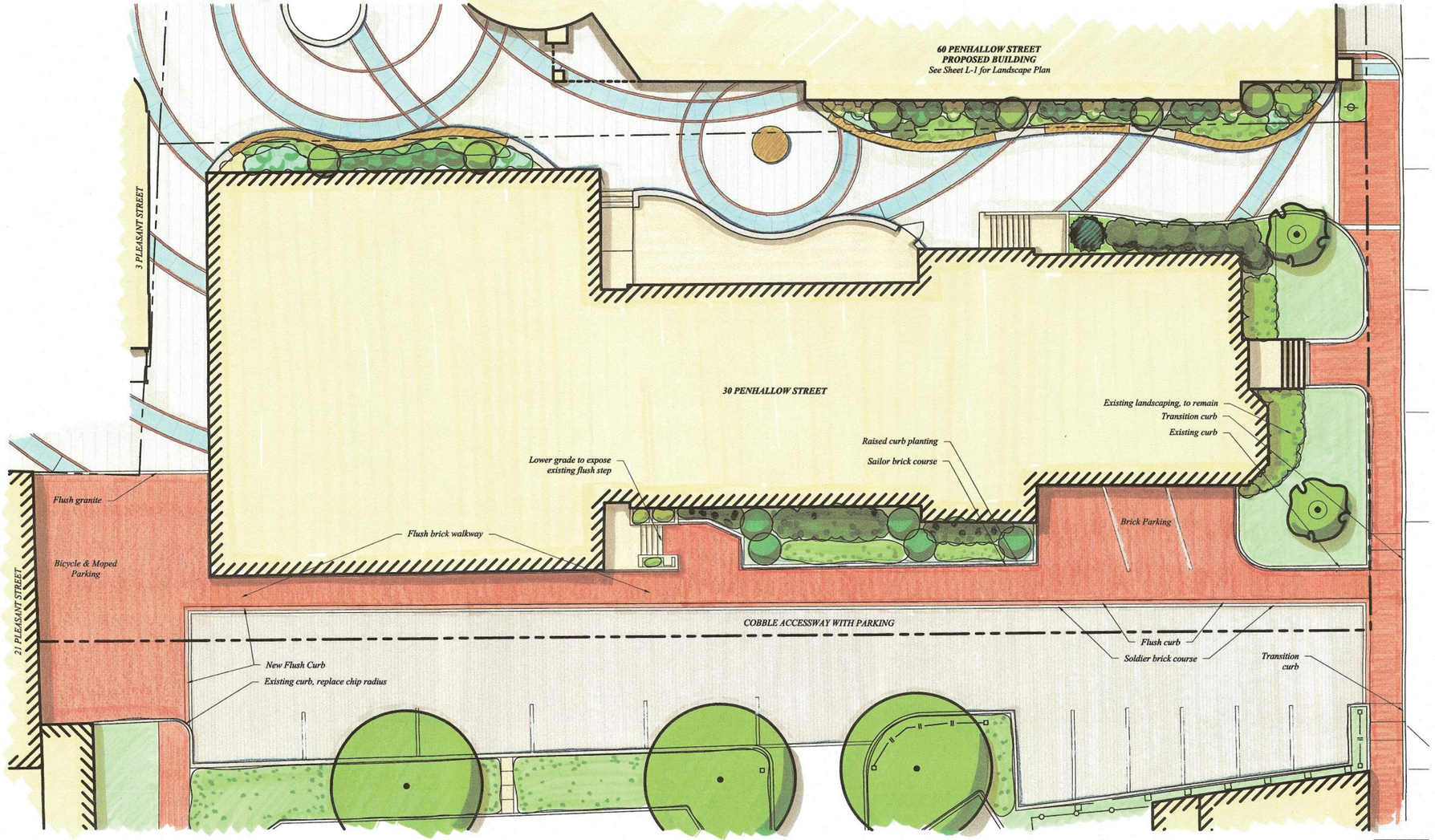
Sheet 1 of 5



PAVING MATERIALS LIST

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Granite Edging in Sidewalk	To match existing	To match existing	Thickness to match brick	Length and width dimensions vary, see plan.
Brick	Clay paving brick			Specification TBD

0 2 5 10 20

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LANDSCAPE ARCHITECTURE
103 Kent Place Newmarket, New Hampshire Phone: 603.659.5949

Brick Market

30 PENHALLOW LANDSCAPE PLAN

Portsmouth, New Hampshire

Drawn By:	VM
Checked By:	RW
Scale:	1" = 10' - 0"
Date:	November 26, 2019
Revisions:	

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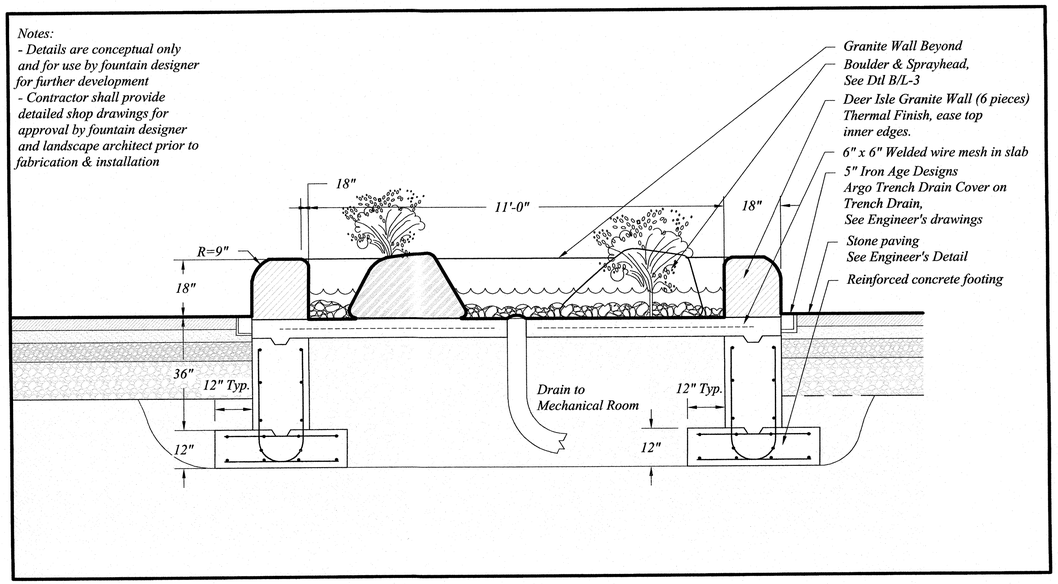
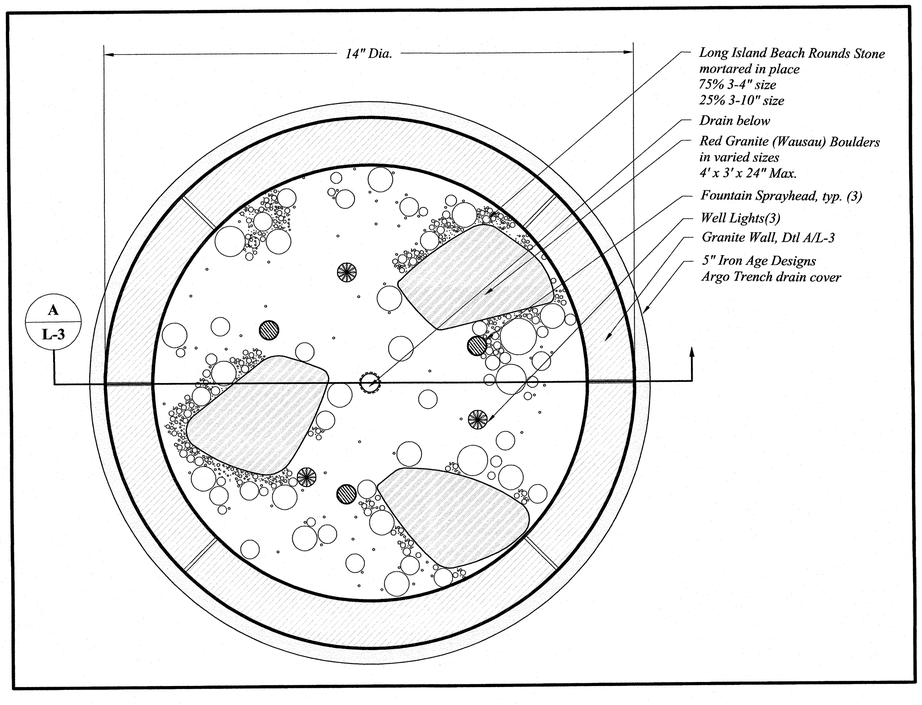
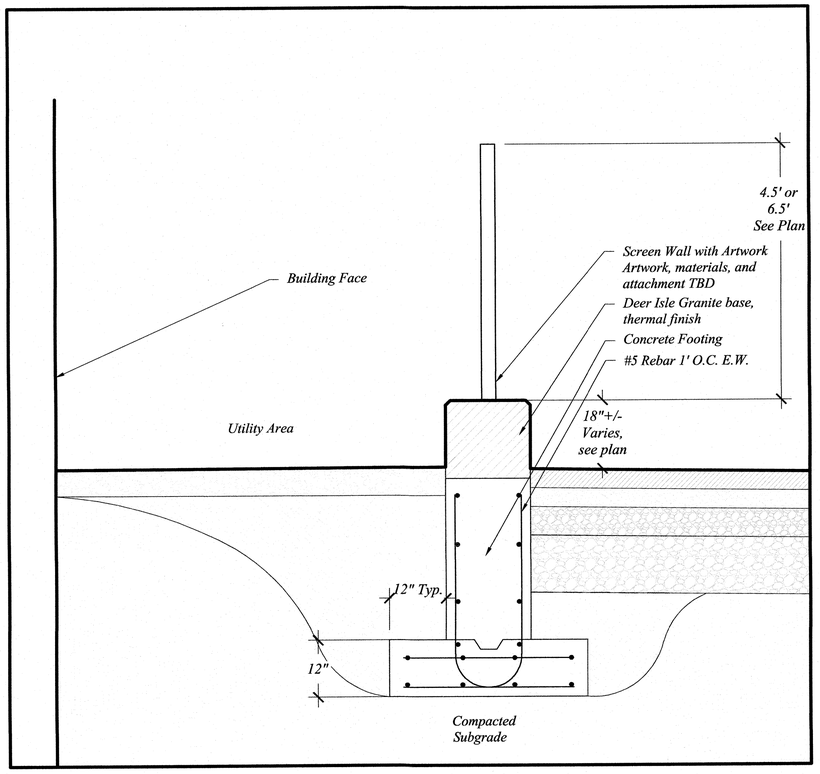
Sheet 2 of 5



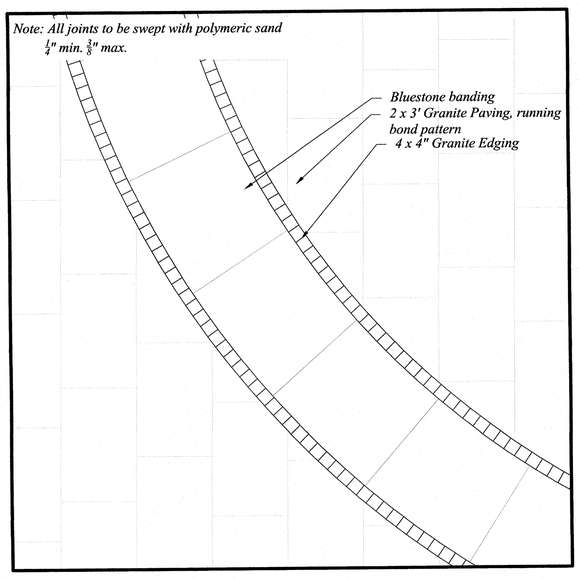
A ***Fountain Section***
Scale: ½"=1'-0"



B ***Fountain Plan***
Scale: ½"=1'-0"



C ***Mural Wall Section***
Scale: ¾"=1'-0"



D ***Paving Enlargement***
Scale: ½"=1'-0"

PAVING MATERIALS LIST

	MATERIAL	FINISH	DIMENSIONS	NOTES
Bluestone Banding	Select Bluestone	Thermal	3' W x 3'+/- L x 4" thick	Custom radius pieces (see plans). Contractor to provide shop drawings. Select stone for greenish blue color tones, without reeds or spalling.
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Granite Edging in Plaza	Wausau Granite	Thermal	4" W x 4" L x 4" thick	
Granite Edging in Sidewalk	To match existing	To match existing	Thickness to match brick	Length and width dimensions vary, see plan.
Brick	Clay paving brick			Specification TBD

woodburn & company
LANDSCAPE ARCHITECTURE
103 Kent Place Newmarket, New Hampshire Phone: 603.659.5949

Brick Market
LANDSCAPE DETAILS
Portsmouth, New Hampshire

Drawn By: LF
Checked By: RW
Scale: See details
Date: November 18, 2019
Revisions: November 26, 2019

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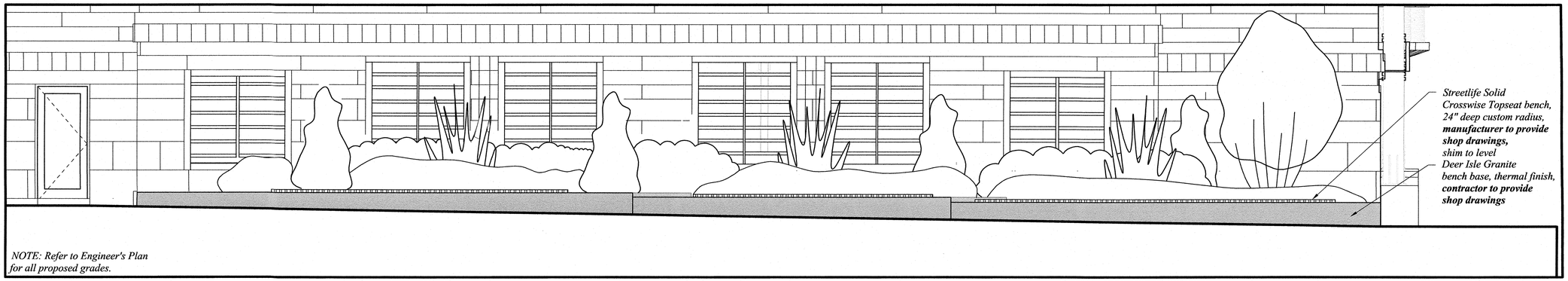
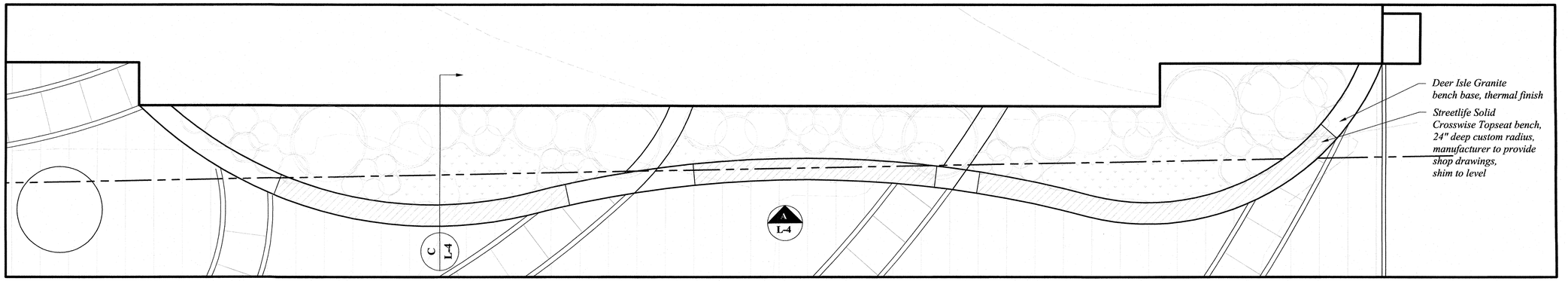
Sheet 3 of 5



NOTE: Refer to Engineer's Plan
for all proposed grades.

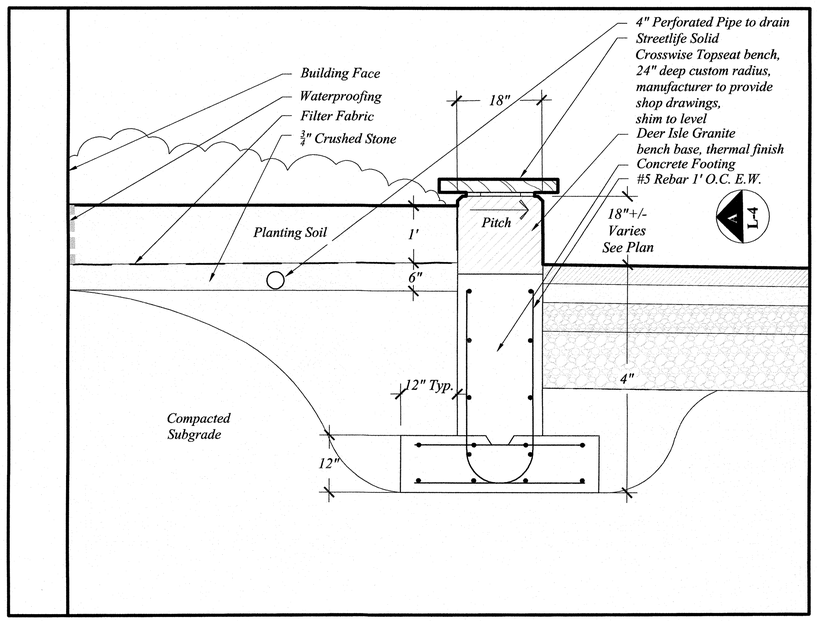
A **Bench Elevation**
Scale: $\frac{1}{4}$"=1'-0"

0 2 4 8



B **Bench Plan**
Scale: $\frac{1}{4}$"=1'-0"

0 2 4 8



C **Bench Section**
Scale: $\frac{3}{4}$"=1'-0"

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LANDSCAPE ARCHITECTURE
103 Kent Place Newmarket, New Hampshire Phone: 603.659.5949

Brick Market

LANDSCAPE DETAILS

Portsmouth, New Hampshire

Drawn By:	LF
Checked By:	RW
Scale:	See details
Date:	November 18, 2019
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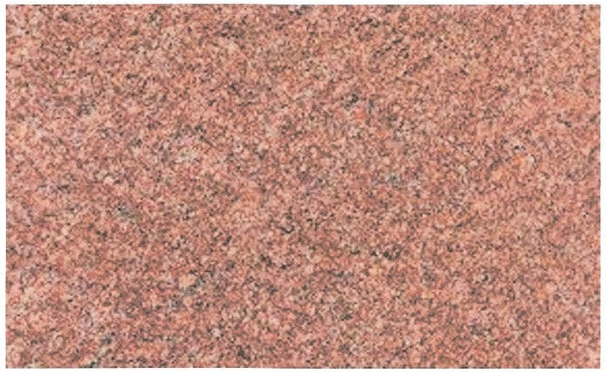
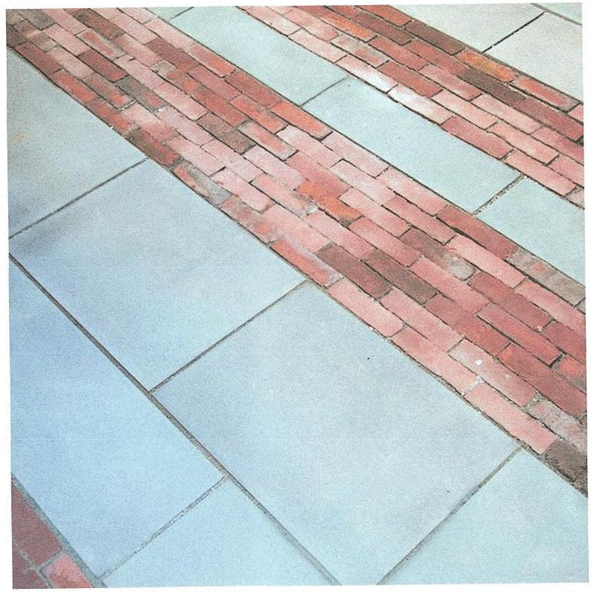
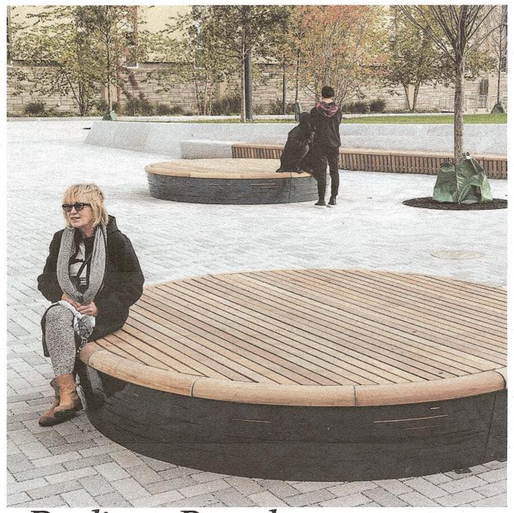


Wausau Red Granite - *Slim banding*

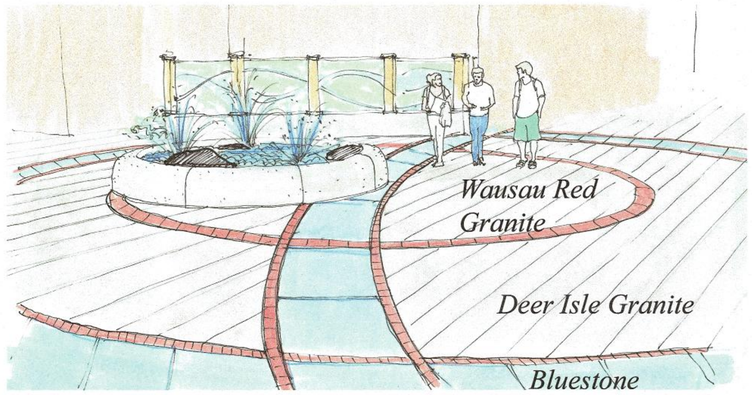
Deer Isle Granite - *Paving Field*

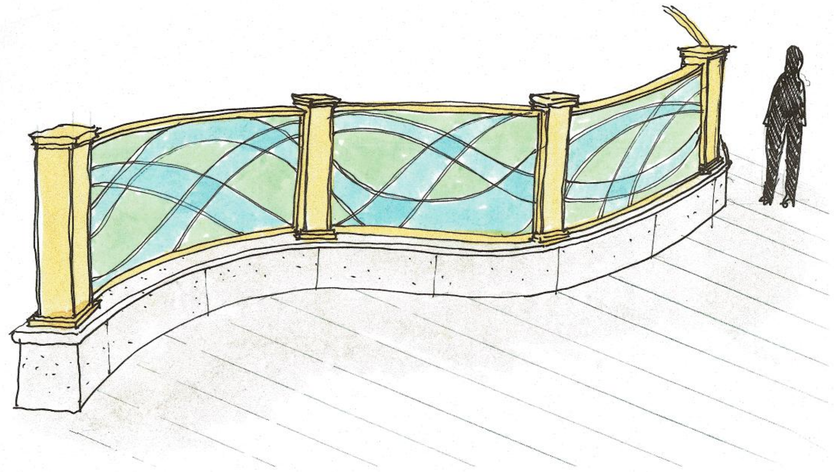


Bluestone



Podium Bench - *6' diameter*





Mural Wall - Height 6' and 8' see plan - *Granite base 18x18"*
Posts wood to match building

Wood Bench Top - *sits on Deer Isle granite wall base instead of steel feet as shown here*
18"w x 14" -20" base (varies with grade)

Granite Fountain - *low sprays*
18" high x 14' diameter

Tree planters *shown as core ten here*
3'x3'x3'

woodburn & company
LANDSCAPE ARCHITECTURE
103 Kent Place Newmarket, New Hampshire Phone: 603.659.5949

Brick Market
60 PENHALLOW LANDSCAPE MATERIALS
Portsmouth, New Hampshire

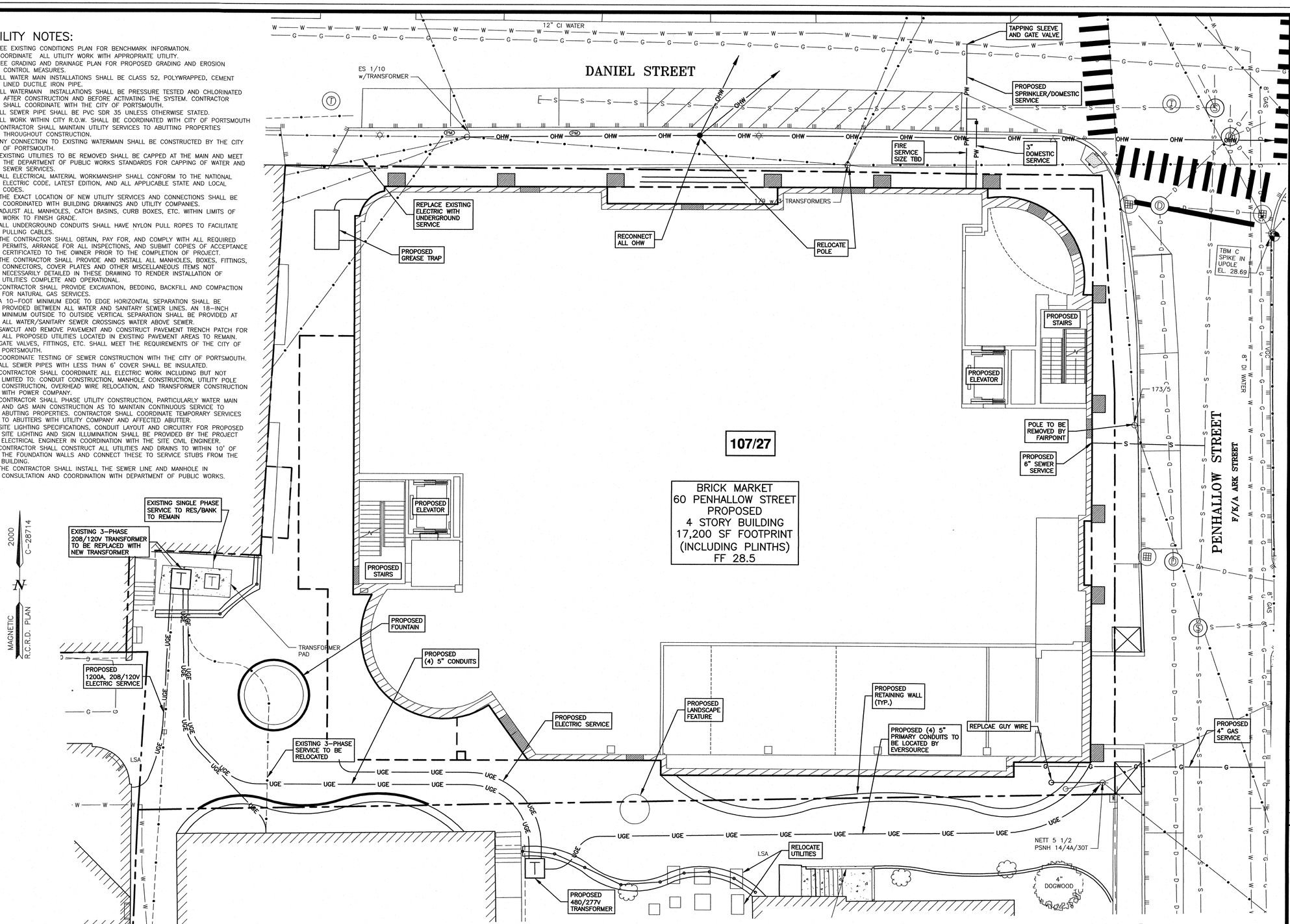
Drawn By:	VM
Checked By:	RW
Scale:	1" = 10' - 0"
Date:	November 26, 2019
Revisions:	

L-M

Sheet 5 of 5

UTILITY NOTES:

1) SEE EXISTING CONDITIONS PLAN FOR BENCHMARK INFORMATION.
2) COORDINATE ALL UTILITY WORK WITH APPROPRIATE UTILITY.
3) SEE GRADING AND DRAINAGE PLAN FOR PROPOSED GRADING AND EROSION CONTROL MEASURES.
4) ALL WATER MAIN INSTALLATIONS SHALL BE CLASS 52, POLYWRAPPED, CEMENT LINED DUCTILE IRON PIPE.
5) ALL WATERMAIN INSTALLATIONS SHALL BE PRESSURE TESTED AND CHLORINATED AFTER CONSTRUCTION AND BEFORE ACTIVATING THE SYSTEM. CONTRACTOR SHALL COORDINATE WITH THE CITY OF PORTSMOUTH.
6) ALL SEWER PIPE SHALL BE PVC SDR 35 UNLESS OTHERWISE STATED.
7) ALL WORK WITHIN CITY R.O.W. SHALL BE COORDINATED WITH CITY OF PORTSMOUTH
8) CONTRACTOR SHALL MAINTAIN UTILITY SERVICES TO ABUTTING PROPERTIES THROUGHOUT CONSTRUCTION.
9) ANY CONNECTION TO EXISTING WATERMAIN SHALL BE CONSTRUCTED BY THE CITY OF PORTSMOUTH.
10) EXISTING UTILITIES TO BE REMOVED SHALL BE CAPPED AT THE MAIN AND MEET THE DEPARTMENT OF PUBLIC WORKS STANDARDS FOR CAPPING OF WATER AND SEWER SERVICES.
11) ALL ELECTRICAL MATERIAL WORKMANSHIP SHALL CONFORM TO THE NATIONAL ELECTRIC CODE, LATEST EDITION, AND ALL APPLICABLE STATE AND LOCAL CODES.
12) THE EXACT LOCATION OF NEW UTILITY SERVICES AND CONNECTIONS SHALL BE COORDINATED WITH BUILDING DRAWINGS AND UTILITY COMPANIES.
13) ADJUST ALL MANHOLES, CATCH BASINS, CURB BOXES, ETC. WITHIN LIMITS OF WORK TO FINISH GRADE.
14) ALL UNDERGROUND CONDUITS SHALL HAVE NYLON PULL ROPES TO FACILITATE PULLING CABLES.
15) THE CONTRACTOR SHALL OBTAIN, PAY FOR, AND COMPLY WITH ALL REQUIRED PERMITS, ARRANGE FOR ALL INSPECTIONS, AND SUBMIT COPIES OF ACCEPTANCE CERTIFICATED TO THE OWNER PRIOR TO THE COMPLETION OF PROJECT.
16) THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL MANHOLES, BOXES, FITTINGS, CONNECTORS, COVER PLATES AND OTHER MISCELLANEOUS ITEMS NOT NECESSARILY DETAILED IN THESE DRAWING TO RENDER INSTALLATION OF UTILITIES COMPLETE AND OPERATIONAL.
17) CONTRACTOR SHALL PROVIDE EXCAVATION, BEDDING, BACKFILL AND COMPACTION FOR NATURAL GAS SERVICES.
18) A 10-FOOT MINIMUM EDGE TO EDGE HORIZONTAL SEPARATION SHALL BE PROVIDED BETWEEN ALL WATER AND SANITARY SEWER LINES. AN 18-INCH MINIMUM OUTSIDE TO OUTSIDE VERTICAL SEPARATION SHALL BE PROVIDED AT ALL WATER/SANITARY SEWER CROSSINGS WATER ABOVE SEWER.
19) SAWCUT AND REMOVE PAVEMENT AND CONSTRUCT PAVEMENT TRENCH PATCH FOR ALL PROPOSED UTILITIES LOCATED IN EXISTING PAVEMENT AREAS TO REMAIN.
20) GATE VALVES, FITTINGS, ETC. SHALL MEET THE REQUIREMENTS OF THE CITY OF PORTSMOUTH.
21) COORDINATE TESTING OF SEWER CONSTRUCTION WITH THE CITY OF PORTSMOUTH.
22) ALL SEWER PIPES WITH LESS THAN 6' COVER SHALL BE INSULATED.
23) CONTRACTOR SHALL COORDINATE ALL ELECTRIC WORK INCLUDING BUT NOT LIMITED TO: CONDUIT CONSTRUCTION, MANHOLE CONSTRUCTION, UTILITY POLE CONSTRUCTION, OVERHEAD WIRE RELOCATION, AND TRANSFORMER CONSTRUCTION WITH POWER COMPANY.
24) CONTRACTOR SHALL PHASE UTILITY CONSTRUCTION, PARTICULARLY WATER MAIN AND GAS MAIN CONSTRUCTION AS TO MAINTAIN CONTINUOUS SERVICE TO ABUTTING PROPERTIES. CONTRACTOR SHALL COORDINATE TEMPORARY SERVICES TO ABUTTERS WITH UTILITY COMPANY AND AFFECTED ABUTTER.
25) SITE LIGHTING SPECIFICATIONS, CONDUIT LAYOUT AND CIRCUITRY FOR PROPOSED SITE LIGHTING AND SIGN ILLUMINATION SHALL BE PROVIDED BY THE PROJECT ELECTRICAL ENGINEER IN COORDINATION WITH THE SITE CIVIL ENGINEER.
26) CONTRACTOR SHALL CONSTRUCT ALL UTILITIES AND DRAINS TO WITHIN 10' OF THE FOUNDATION WALLS AND CONNECT THESE TO SERVICE STUBS FROM THE BUILDING.
27) THE CONTRACTOR SHALL INSTALL THE SEWER LINE AND MANHOLE IN CONSULTATION AND COORDINATION WITH DEPARTMENT OF PUBLIC WORKS.



APPROVED BY THE PORTSMOUTH PLANNING BOARD

CHAIRMAN _____ DATE _____

GRAPHIC SCALE

10 5 0 10 20 30 40 FEET
3 0 5 10 METERS

AMBIT ENGINEERING, INC.
Civil Engineers & Land Surveyors
200 Griffin Road - Unit 3
Portsmouth, N.H. 03801-7114
Tel (603) 430-9282
Fax (603) 436-2315

NOTES:

1) THE CONTRACTOR SHALL NOTIFY DIG SAFE AT 1-888-DIG-SAFE (1-888-344-7233) AT LEAST 72 HOURS PRIOR TO COMMENCING ANY EXCAVATION ON PUBLIC OR PRIVATE PROPERTY.

2) UNDERGROUND UTILITY LOCATIONS ARE BASED UPON BEST AVAILABLE EVIDENCE AND ARE NOT FIELD VERIFIED. LOCATING AND PROTECTING ANY ABOVEGROUND OR UNDERGROUND UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND/OR THE OWNER. UTILITY CONFLICTS SHOULD BE REPORTED AT ONCE TO THE DESIGN ENGINEER.

3) CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE "NEW HAMPSHIRE STORMWATER MANUAL, VOLUME 3, EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION. (NHDES DECEMBER 2008).

4) INSTALL CATCH BASIN INLET PROTECTION ON ALL EXISTING AND PROPOSED CATCH BASINS IN THE PROJECT VICINITY UNTIL CONSTRUCTION IS COMPLETED AND THE SITE IS STABILIZED.

5) ALL WATER MAIN AND SANITARY SEWER WORK SHALL MEET THE STANDARDS OF THE NEW HAMPSHIRE STATE PLUMBING CODE AND CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC WORKS.

6) UTILITY AS-BUILTS SHALL BE SUBMITTED TO THE CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC WORKS UPON COMPLETION OF THE PROJECT.

7) EVERSOURCE WORK ORDER #3107781

8) PROPOSED SEWER FLOW:
1ST FLOOR RESTAURANT: 3,600 GPD
OFFICE SPACE:
141,526 SF/(2.5 GPD X 100 SF) = 1,038 GPD
TOTAL PROPOSED FLOW = 4,638 GPD

9) THE APPLICANT SHALL HAVE A COMMUNICATIONS SITE SURVEY CONDUCTED BY A MOTOROLA COMMUNICATIONS CARRIER APPROVED BY THE PORTSMOUTH'S COMMUNICATIONS DIVISION. THE RADIO COMMUNICATIONS CARRIER MUST BE FAMILIAR AND CONVERSANT WITH THE PORTSMOUTH POLICE AND FIRE RADIO SYSTEMS CONFIGURATION. IF THE SITE SURVEY INDICATES THAT IT IS NECESSARY TO INSTALL A SIGNAL REPEATER EITHER ON OR NEAR THE PROPOSED PROJECT, THOSE COSTS SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER. THE PROPERTY OWNER WILL BE REQUIRED TO MAINTAIN ANY INSTALLED EQUIPMENT. THE PROPERTY OWNER SHALL BE RESPONSIBLE TO PAY FOR THE SITE SURVEY WHETHER OR NOT THE SURVEY INDICATES THAT EQUIPMENT IS NECESSARY. THE OWNER SHALL COORDINATE WITH THE SUPERVISOR OF RADIO COMMUNICATIONS FOR PORTSMOUTH. THE SURVEY SHALL BE COMPLETED AND ANY REQUIRED EQUIPMENT INSTALLED, TESTED, AND ACCEPTED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.

BRICK MARKET
60 PENHALLOW STREET
PORTSMOUTH, N.H.

NO.	DESCRIPTION	DATE
2	ISSUED FOR DESIGN REVIEW	12/2/19
1	ISSUED FOR APPROVAL	11/18/19
0	ISSUED FOR COMMENT	10/8/19

REVISIONS

JOHN R. CHAGNON No. 7851 - LICENSED PROFESSIONAL ENGINEER - STATE OF NEW HAMPSHIRE

SCALE: 1"=10" MAY 2019

UTILITY PLAN

C4

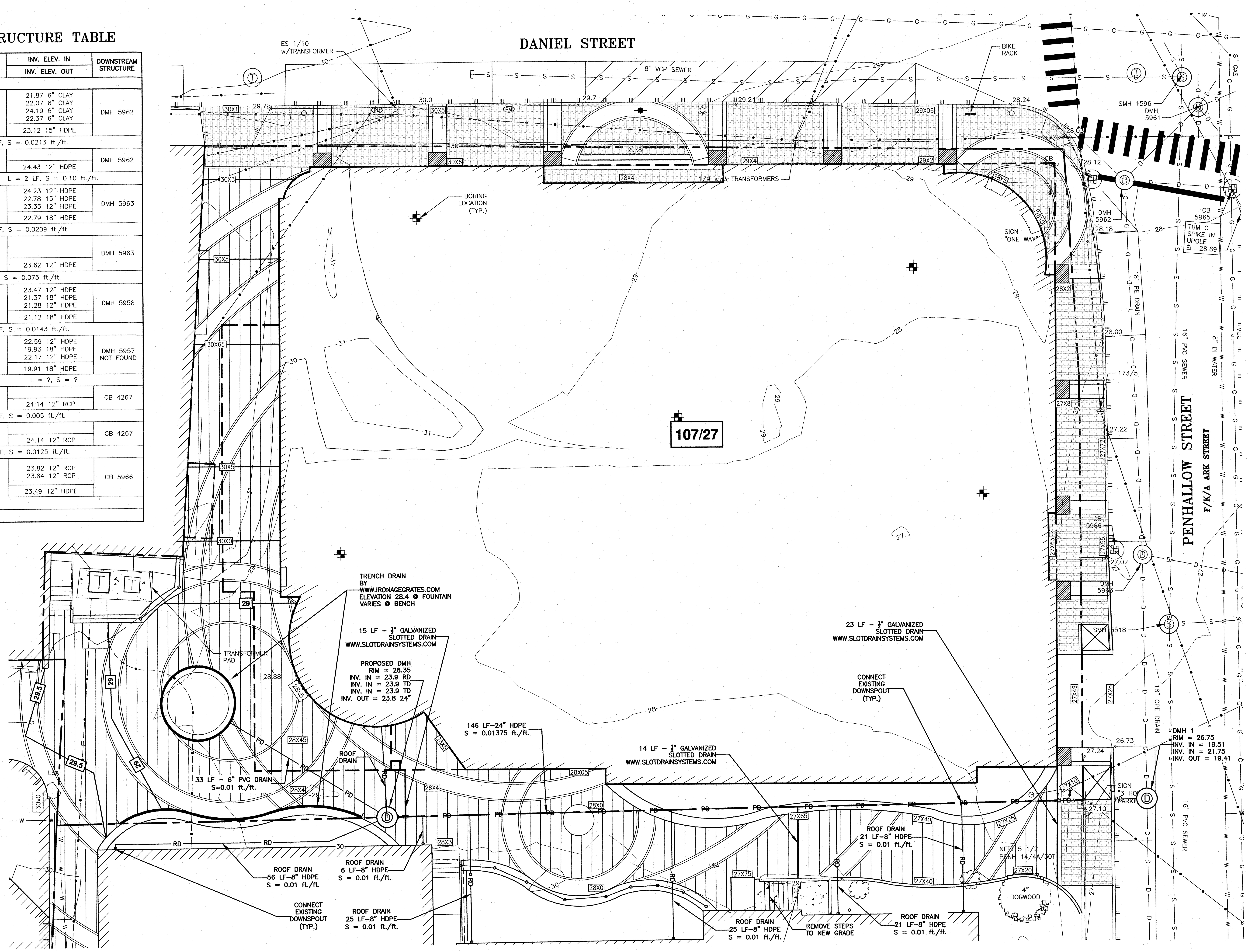
FB 402 PG 1

3039

J:\JOBS\3039_3000\3039_3000\3039 Site Development 60 Penhallow\Plans & Specs\CAD\3039 SITE 60 PENHALLOW.dwg

DRAIN STRUCTURE TABLE

STRUCTURE	RIM ELEV.	INV. ELEV. IN / INV. ELEV. OUT	DOWNSTREAM STRUCTURE
PIPE			
DMH 5961	28.52	IN: 21.87 6" CLAY; 22.07 6" CLAY; 24.19 6" CLAY; 22.37 6" CLAY / OUT: 23.12 15" HDPE	DMH 5962
15" HDPE	L = 16 LF, S = 0.0213 ft./ft.		
CB 5964	27.76	IN: – / OUT: 24.43 12" HDPE	DMH 5962
12" HDPE	L = 2 LF, S = 0.10 ft./ft.		
DMH 5962	27.99	IN: 24.23 12" HDPE; 22.78 15" HDPE; 23.35 12" HDPE / OUT: 22.79 18" HDPE	DMH 5963
18" HDPE	L = 68 LF, S = 0.0209 ft./ft.		
CB 5966	27.05	IN: / OUT: 23.62 12" HDPE	DMH 5963
12" HDPE	L = 2 LF, S = 0.075 ft./ft.		
DMH 5963	27.10	IN: 23.47 12" HDPE; 21.37 18" HDPE; 21.28 12" HDPE / OUT: 21.12 18" HDPE	DMH 5958
18" HDPE	L = 83 LF, S = 0.0143 ft./ft.		
DMH 5958	26.29	IN: 22.59 12" HDPE; 19.93 18" HDPE; 22.17 12" HDPE / OUT: 19.91 18" HDPE	DMH 5957 NOT FOUND
18" HDPE	L = ?, S = ?		
CB 4265	27.30	IN: / OUT: 24.14 12" RCP	CB 4267
12" RCP	L = 62 LF, S = 0.005 ft./ft.		
CB 4266	27.34	IN: / OUT: 24.14 12" RCP	CB 4267
12" RCP	L = 24 LF, S = 0.0125 ft./ft.		
CB 4267	26.84	IN: 23.82 12" RCP; 23.84 12" RCP / OUT: 23.49 12" HDPE	CB 5966



APPROVED BY THE PORTSMOUTH PLANNING BOARD

CHAIRMAN

DATE

GRAPHIC SCALE

10 5 0 10 20 30 40 FEET

3 0 5 10 METERS

AMBIT ENGINEERING, INC.
Civil Engineers & Land Surveyors
200 Griffin Road – Unit 3
Portsmouth, N.H. 03801-7114
Tel (603) 430-9282
Fax (603) 436-2315

NOTES:

1) THE CONTRACTOR SHALL NOTIFY DIG SAFE AT 1-888-DIG-SAFE (1-888-344-7233) AT LEAST 72 HOURS PRIOR TO COMMENCING ANY EXCAVATION ON PUBLIC OR PRIVATE PROPERTY.

2) UNDERGROUND UTILITY LOCATIONS ARE BASED UPON BEST AVAILABLE EVIDENCE AND ARE NOT FIELD VERIFIED. LOCATING AND PROTECTING ANY ABOVEGROUND OR UNDERGROUND UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND/OR THE OWNER. UTILITY CONFLICTS SHOULD BE REPORTED AT ONCE TO THE DESIGN ENGINEER.

3) CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE "NEW HAMPSHIRE STORMWATER MANUAL, VOLUME 3, EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION. (NHDES DECEMBER 2008).

4) CITY SHALL BE NOTIFIED IF THERE ARE ANY CONFLICTS WITH PROPOSED DRAINAGE PIPES UNCOVERED DURING CONSTRUCTION. REVIEW AND APPROVAL OF REMEDIES, BY THE CITY, REQUIRED.

BRICK MARKET
60 PENHALLOW STREET
PORTSMOUTH, N.H.

NO.	DESCRIPTION	DATE
2	ISSUED FOR DESIGN REVIEW	12/2/19
1	ISSUED FOR APPROVAL	11/18/19
0	ISSUED FOR COMMENT	10/8/19

REVISIONS

STATE OF NEW HAMPSHIRE JOHN R. CHAGNON No. 7851 LICENSED PROFESSIONAL ENGINEER

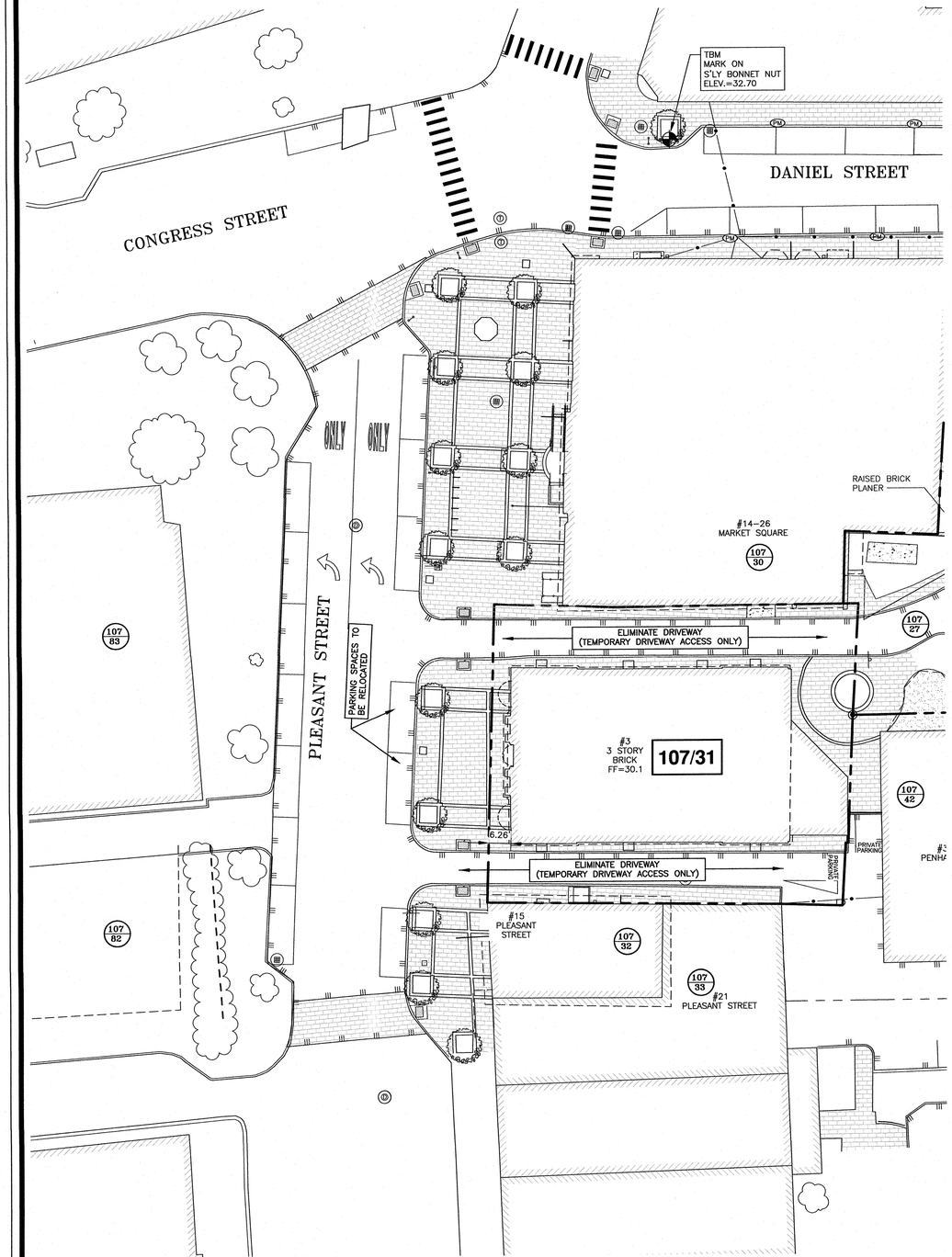
SCALE: 1"=10' MAY 2019

GRADING AND DRAINAGE PLAN

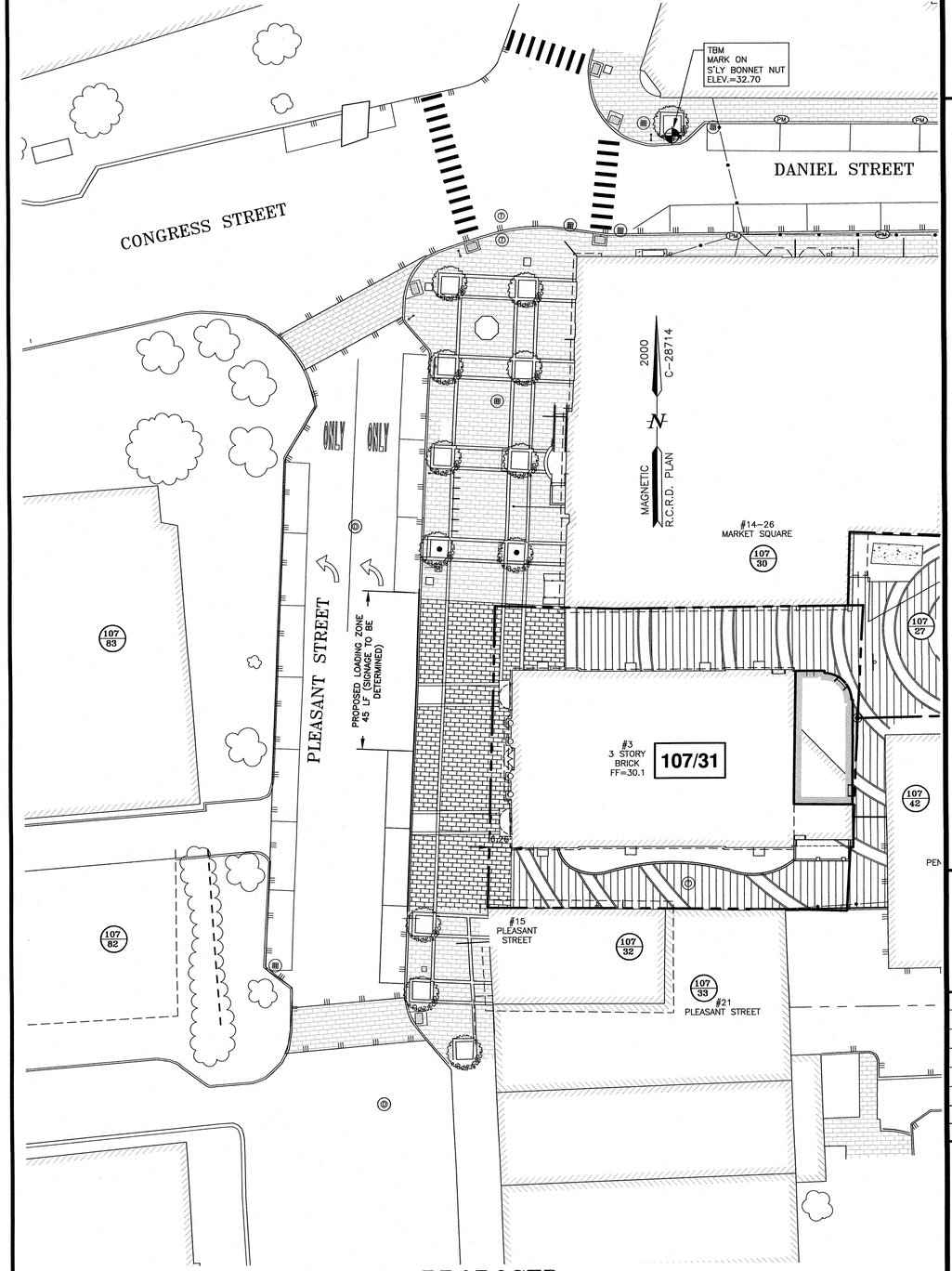
C5

FB 402 PG 1

3039



EXISTING



PROPOSED

GRAPHIC SCALE

10 0 20 40 60 80 FEET

5 0 5 10 15 20 25 METERS

AMBIT ENGINEERING, INC.
Civil Engineers & Land Surveyors
200 Griffin Road – Unit 3
Portsmouth, N.H. 03801-7114
Tel (603) 430-9282
Fax (603) 436-2315

NOTES:

1) PARCEL IS SHOWN ON THE CITY OF PORTSMOUTH ASSESSOR'S MAP 107 AS LOT 31.

2) OWNER OF RECORD:

DAGNY TAGGART
30 PENHALLOW STREET, SUITE 300 EAST
PORTSMOUTH, NH 03801

3) PARCEL IS NOT IN A SPECIAL FLOOD HAZARD AREA AS SHOWN ON FIRM PANEL 33015C0259E. EFFECTIVE DATE MAY 17, 2005.

4) EXISTING LOT AREA:
8,867 S.F.
0.2036 ACRES

5) ASSESSOR'S MAP 107 LOT 31 IS LOCATED IN THE CHARACTER DISTRICT 5 (CD5) ZONING DISTRICT. PARCEL IS LOCATED WITHIN THE DOWNTOWN OVERLAY DISTRICT (DOD) AND THE HISTORIC DISTRICT (HDC).

6) THE PURPOSE OF THIS PLAN IS TO SHOW PROPOSED IMPROVEMENTS IN THE PLEASANT STREET RIGHT-OF-WAY. THIS PLAN WAS APPROVED AS PART OF THE 3 PLEASANT STREET SITE PLAN APPROVAL.

BRICK MARKET
60 PENHALLOW STREET
PORTSMOUTH, N.H.

NO.	DESCRIPTION	DATE
3	ISSUED WITH 60 PENHALLOW	11/18/19
2	BIKE RACKS	9/20/19
1	PROPOSED LAYOUT	9/10/19
0	ISSUED FOR COMMENT	8/27/19

REVISIONS

STATE OF NEW HAMPSHIRE LICENSED LAND SURVEYOR No. 738 JOHN R. CHAGNON

JOHN R. CHAGNON No. 7801 LICENSED PROFESSIONAL ENGINEER STATE OF NEW HAMPSHIRE

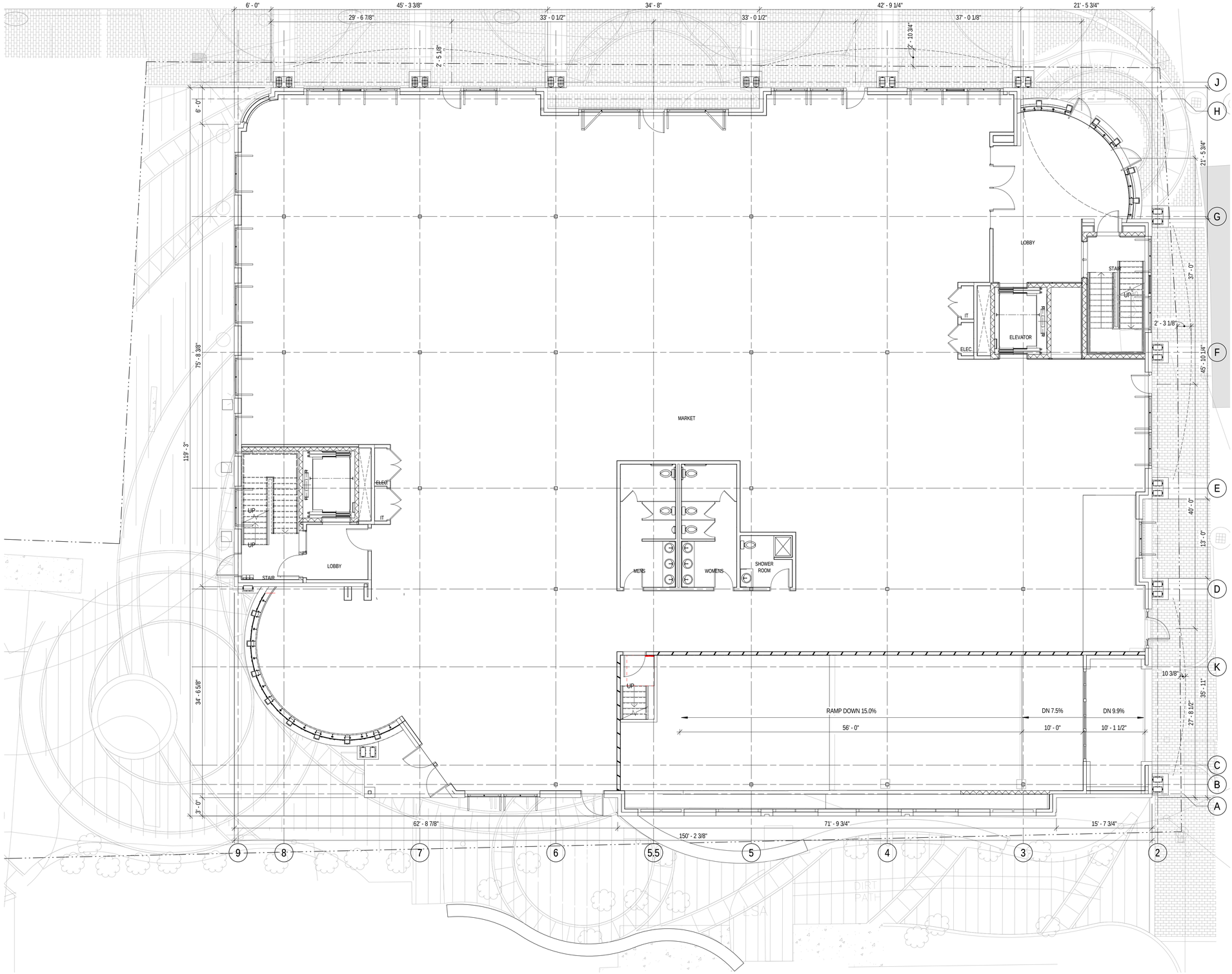
SCALE: 1"=20' AUGUST 2019

OFFSITE IMPROVEMENT PLAN 3 PLEASANT STREET

C6

FB 402 PG 1

3039



1 FIRST FLOOR OVERALL PLAN
1/8" = 1'-0"

GROSS SQUARE FOOTAGE	
NOTE: MEASURED TO 6" INTO EXTERIOR WALLS FROM INSIDE FACE	
ABOVE GRADE	
FIRST FLOOR	16,462
MECHANICAL MEZZANINE	724
SECOND FLOOR	16,669
THIRD FLOOR	16,130
FOURTH FLOOR	9,593
TOTAL	59,578
BELOW GRADE	
FIRST FLOOR	18,131
SECOND FLOOR	17,569
TOTAL	35,700
GRAND TOTAL (ABOVE AND BELOW TOTALS)	95,278

FOOTPRINT	
NOTE: MEASURED TO OUTSIDE FACE OF EXTERIOR WALLS	
FIRST FLOOR	17,197

GRAPHIC SCALE: 1/8" = 1'-0"
0' 4' 8' 16'

JSA
ARCHITECTS
INTERIORS
PLANNERS
273 CORPORATE DRIVE
PORTSMOUTH, NH 03801
T 603.436.2551
F 603.436.6973
www.jsainc.com

60 PENHALLOW STREET
at BRICK MARKET

Penhallow Street
Portsmouth, NH

DAGNY TAGGART LLC
McNABB PROPERTIES

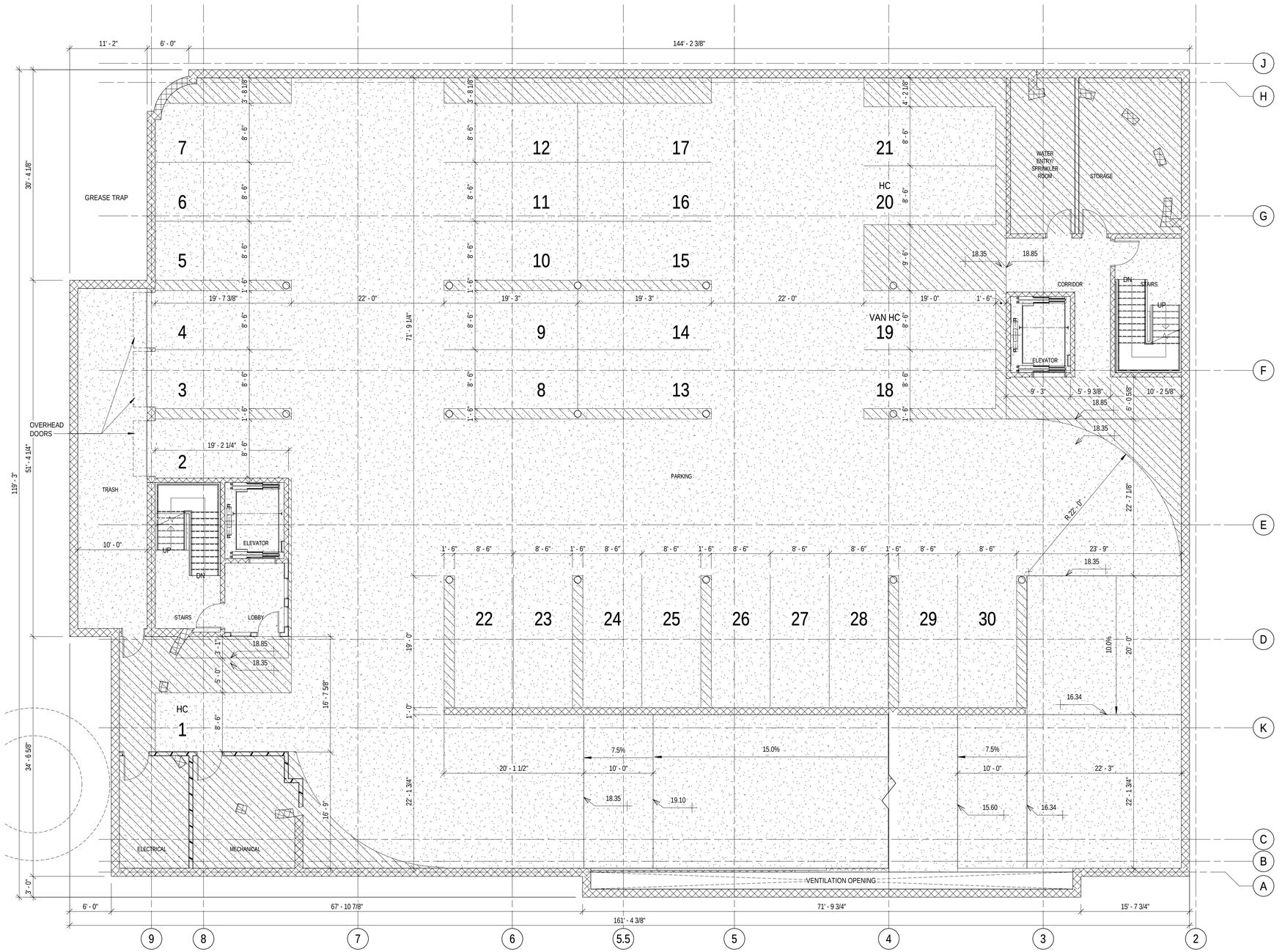
Scale: 1/8" = 1'-0"
Date: 11/18/2019
Project Number: P19081.02

REVISIONS		
NO.	DESCRIPTION	DATE

TAC SUBMISSION

FIRST FLOOR PLAN

A0.01



1 PARKING LEVEL 1 PLAN
1/8" = 1'-0"

GRAPHIC SCALE: 1/8" = 1'-0"
0' 4' 8' 16'

GROSS SQUARE FOOTAGE	
NOTE: MEASURED TO 6" INTO EXTERIOR WALLS FROM INSIDE FACE	
ABOVE GRADE	
FIRST FLOOR	16,462
MECHANICAL MEZZANINE	724
SECOND FLOOR	16,669
THIRD FLOOR	16,130
FOURTH FLOOR	9,593
TOTAL	59,578
BELOW GRADE	
FIRST FLOOR	18,131
SECOND FLOOR	17,569
TOTAL	35,700
GRAND TOTAL (ABOVE AND BELOW TOTALS)	95,278
FOOTPRINT	
NOTE: MEASURED TO OUTSIDE FACE OF EXTERIOR WALLS	
FIRST FLOOR	17,197

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60 PENHALLOW STREET
at BRICK MARKET

Penhallow Street
Portsmouth, NH

DAGNY TAGGART LLC
McNABB PROPERTIES

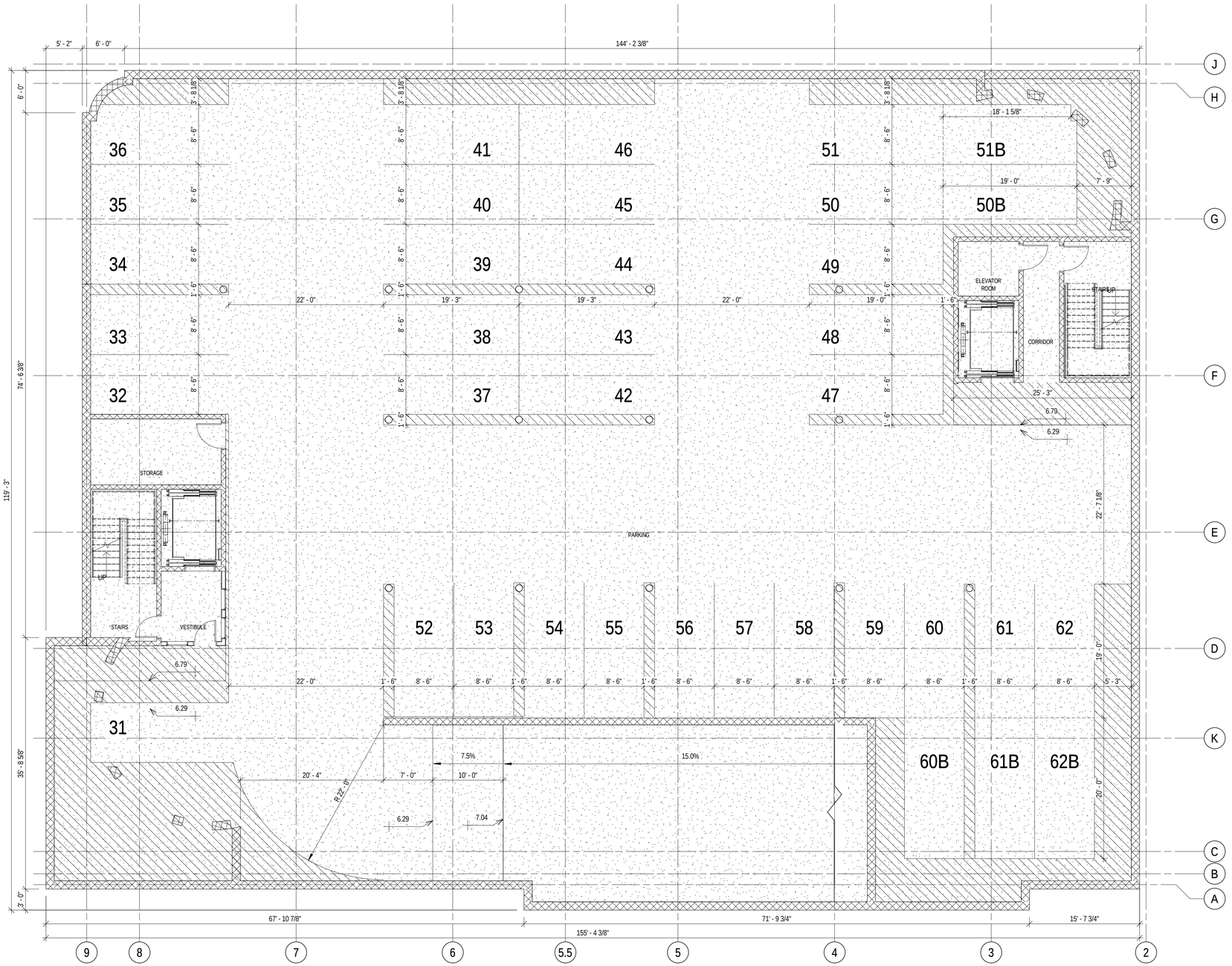
Scale: 1/8" = 1'-0"
Date: 11/18/2019
Project Number: P19081.02

REVISIONS		
NO.	DESCRIPTION	DATE

TAC SUBMISSION

PARKING LEVEL
1 PLAN

A0.01A



1 PARKING LEVEL 2 PLAN
1/8" = 1'-0"

GRAPHIC SCALE: 1/8" = 1'-0"
0' 4' 8' 16'

GROSS SQUARE FOOTAGE	
NOTE: MEASURED TO 6" INTO EXTERIOR WALLS FROM INSIDE FACE	
ABOVE GRADE	
FIRST FLOOR	16,462
MECHANICAL MEZZANINE	724
SECOND FLOOR	16,669
THIRD FLOOR	16,130
FOURTH FLOOR	9,593
TOTAL	59,578
BELOW GRADE	
FIRST FLOOR	18,131
SECOND FLOOR	17,569
TOTAL	35,700
GRAND TOTAL (ABOVE AND BELOW TOTALS)	95,278

FOOTPRINT	
NOTE: MEASURED TO OUTSIDE FACE OF EXTERIOR WALLS	
FIRST FLOOR	17,197

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60 PENHALLOW STREET
at BRICK MARKET

Penhallow Street
Portsmouth, NH

DAGNY TAGGART LLC
McNABB PROPERTIES

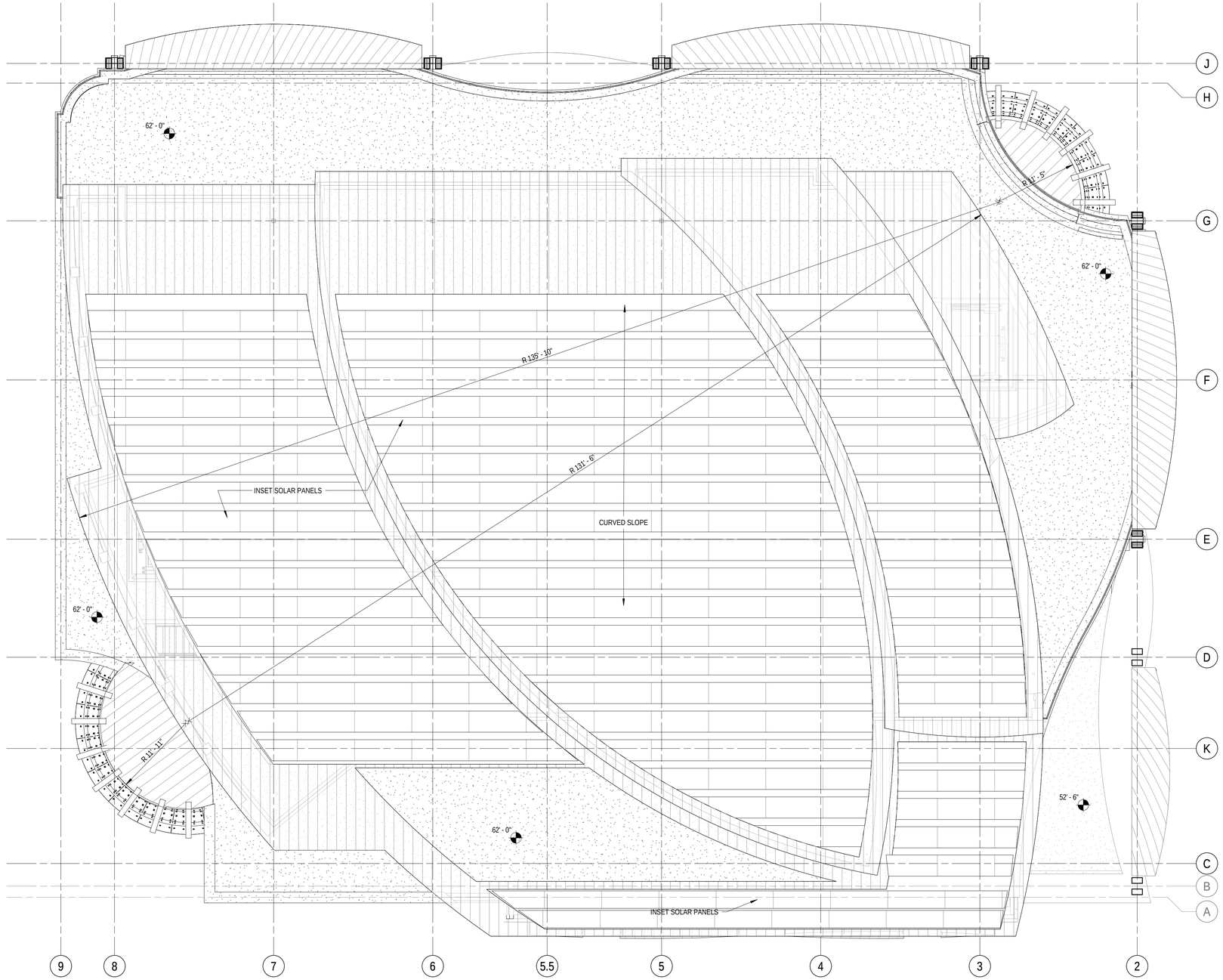
Scale:	1/8" = 1'-0"
Date:	11/18/2019
Project Number:	P19081.02

REVISIONS		
NO.	DESCRIPTION	DATE

TAC SUBMISSION

PARKING LEVEL
2 PLAN

A0.01B



1 ROOF OVERALL PLAN
1/8" = 1'-0"

GRAPHIC SCALE: 1/8" = 1'-0"
0' 4' 8' 16'

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60 PENHALLOW STREET
at BRICK MARKET

Penhallow Street
Portsmouth, NH

DAGNY TAGGART LLC
McNABB PROPERTIES

Scale:	1/8" = 1'-0"
Date:	11/18/2019
Project Number:	P19081.02

REVISIONS		
NO.	DESCRIPTION	DATE

TAC SUBMISSION

ROOF PLAN

A0.02

1 NORTH ELEVATION - DANIEL STREET
1/8" = 1'-0"

2 EAST ELEVATION - PENHALLOW STREET
1/8" = 1'-0"

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60 PENHALLOW STREET
at BRICK MARKET

Penhallow Street
Portsmouth, NH

DAGNY TAGGART LLC
McNABB PROPERTIES

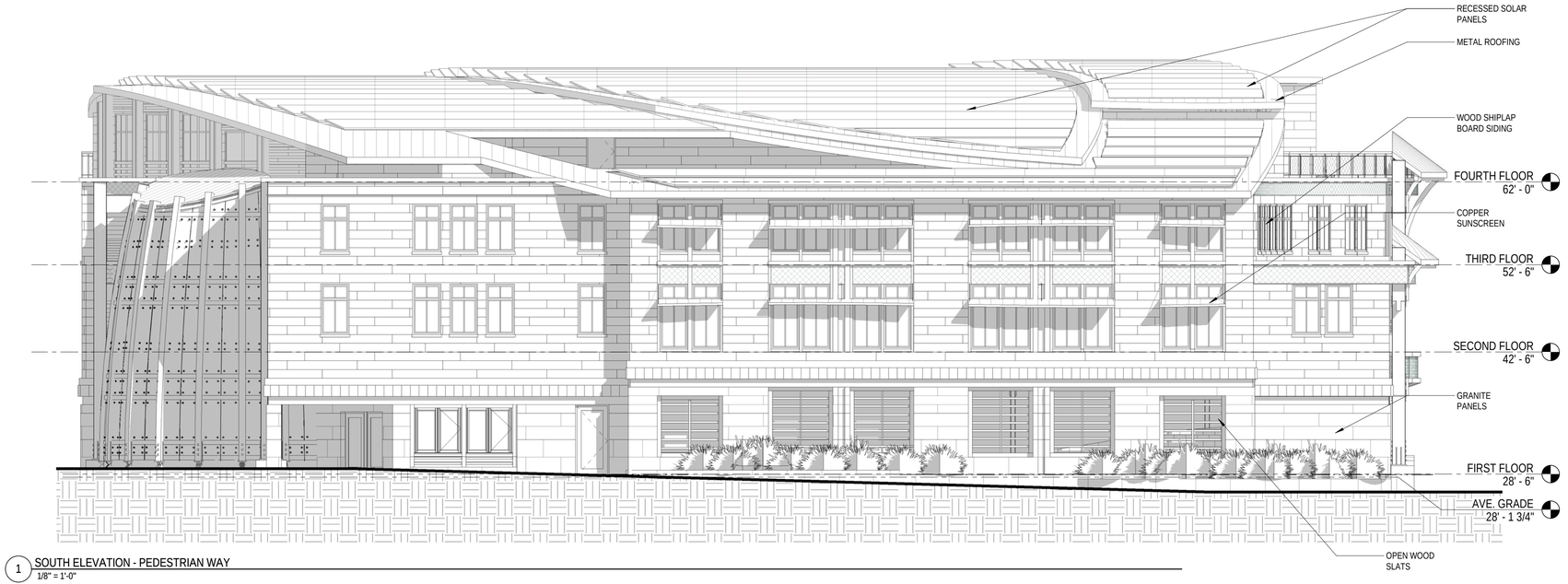
Scale:	1/8" = 1'-0"
Date:	11/18/2019
Project Number:	P19081.02

REVISIONS		
NO.	DESCRIPTION	DATE

TAC SUBMISSION

EXTERIOR ELEVATIONS

A0.03



1 SOUTH ELEVATION - PEDESTRIAN WAY
1/8" = 1'-0"

2 WEST ELEVATION - PEDESTRIAN WAY
1/8" = 1'-0"

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60 PENHALLOW STREET
at BRICK MARKET

Penhallow Street
Portsmouth, NH

DAGNY TAGGART LLC
McNABB PROPERTIES

Scale:	1/8" = 1'-0"
Date:	11/18/2019
Project Number:	P19081.02

REVISIONS		
NO.	DESCRIPTION	DATE

TAC SUBMISSION

EXTERIOR ELEVATIONS

A0.04

NORTHEAST VIEW

NORTHWEST VIEW

SOUTHWEST VIEW

SOUTHEAST VIEW

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60 PENHALLOW STREET
at BRICK MARKET

Penhallow Street
Portsmouth, NH

DAGNY TAGGART LLC
McNABB PROPERTIES

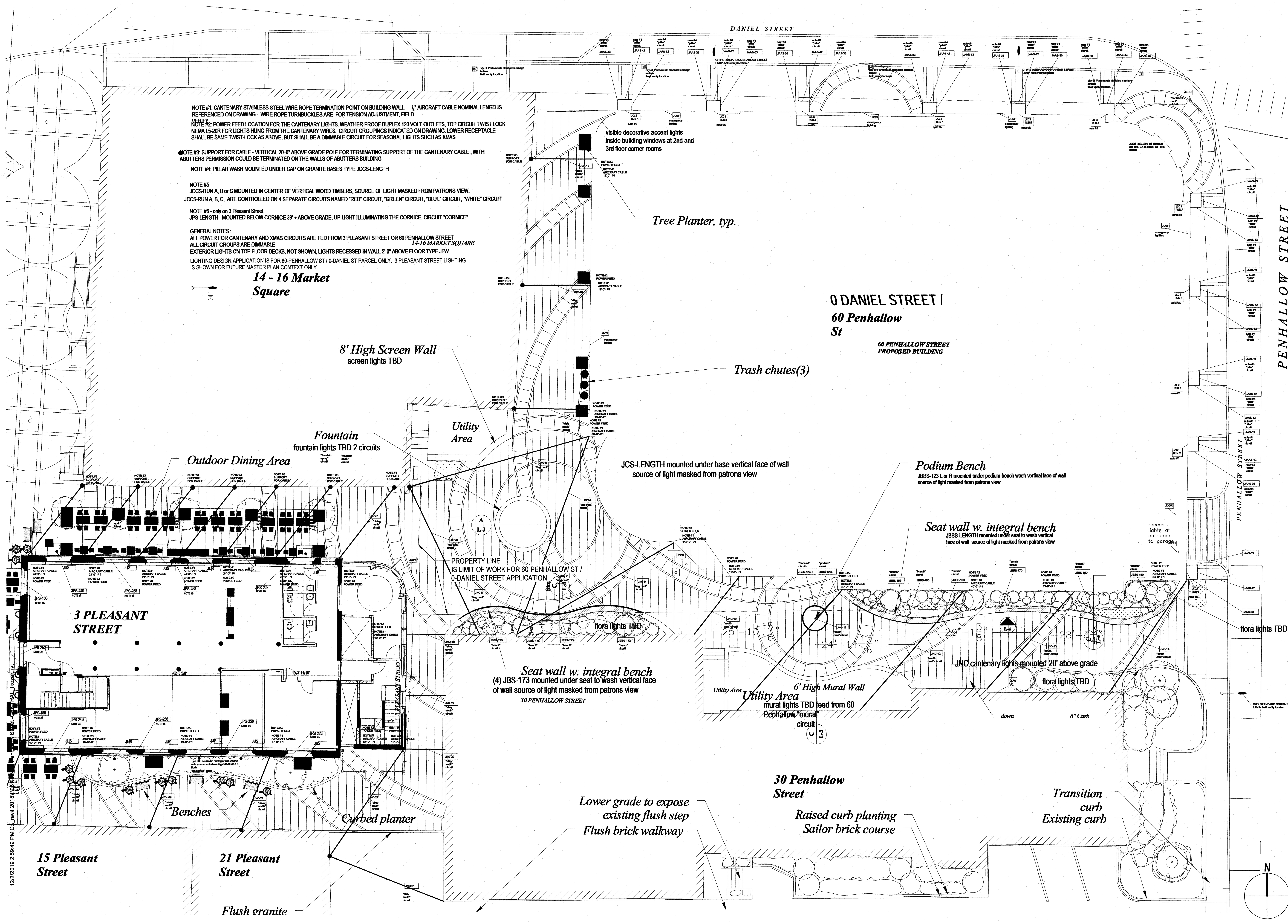
Scale:
Date: 11/18/2019
Project Number: P19081.02

REVISIONS		
NO.	DESCRIPTION	DATE

TAC SUBMISSION

TANGRAM
RENDERINGS

A0.05



DANIEL STREET
NOTE #1: CANTENARY STAINLESS STEEL WIRE ROPE TERMINATION POINT ON BUILDING WALL - ⅛" AIRCRAFT CABLE NOMINAL LENGTHS REFERENCED ON DRAWING - WIRE ROPE TURNBUCKLES ARE FOR TENSION ADJUSTMENT, FIELD VERIFY
NOTE #2: POWER FEED LOCATION FOR THE CANTENARY LIGHTS. WEATHER-PROOF DUPLEX 120 VOLT OUTLETS, TOP CIRCUIT TWIST LOCK NEMA L5-20R FOR LIGHTS HUNG FROM THE CANTENARY WIRES. CIRCUIT GROUPINGS INDICATED ON DRAWING. LOWER RECEPTACLE SHALL BE SAME TWIST-LOCK AS ABOVE, BUT SHALL BE A DIMMABLE CIRCUIT FOR SEASONAL LIGHTS SUCH AS XMAS
NOTE #3: SUPPORT FOR CABLE - VERTICAL 20'-0" ABOVE GRADE POLE FOR TERMINATING SUPPORT OF THE CANTENARY CABLE, WITH ABUTTERS PERMISSION COULD BE TERMINATED ON THE WALLS OF ABUTTERS BUILDING
NOTE #4: PILLAR WASH MOUNTED UNDER CAP ON GRANITE BASES TYPE JCCS-LENGTH
NOTE #5
JCCS-RUN A, B or C MOUNTED IN CENTER OF VERTICAL WOOD TIMBERS, SOURCE OF LIGHT MASKED FROM PATRONS VIEW.
JCCS-RUN A, B, C, ARE CONTROLLED ON 4 SEPARATE CIRCUITS NAMED "RED" CIRCUIT, "GREEN" CIRCUIT, "BLUE" CIRCUIT, "WHITE" CIRCUIT
NOTE #6 - only on 3 Pleasant Street
JPS-LENGTH - MOUNTED BELOW CORNICE 39' + ABOVE GRADE, UP-LIGHT ILLUMINATING THE CORNICE. CIRCUIT "CORNICE"
GENERAL NOTES:
ALL POWER FOR CANTENARY AND XMAS CIRCUITS ARE FED FROM 3 PLEASANT STREET OR 60 PENHALLOW STREET
ALL CIRCUIT GROUPS ARE DIMMABLE
EXTERIOR LIGHTS ON TOP FLOOR DECKS, NOT SHOWN, LIGHTS RECESSED IN WALL 2'-0" ABOVE FLOOR TYPE JFW
LIGHTING DESIGN APPLICATION IS FOR 60-PENHALLOW ST / 0-DANIEL ST PARCEL ONLY. 3 PLEASANT STREET LIGHTING IS SHOWN FOR FUTURE MASTER PLAN CONTEXT ONLY.
14-16 MARKET SQUARE
14 - 16 Market Square
visible decorative accent lights inside building windows at 2nd and 3rd floor corner rooms
Tree Planter, typ.
0 DANIEL STREET
60 Penhallow St
60 PENHALLOW STREET PROPOSED BUILDING
8' High Screen Wall
screen lights TBD
Trash chutes(3)
PENHALLOW STREET
Utility Area
Fountain
fountain lights TBD 2 circuits
Outdoor Dining Area
JCS-LENGTH mounted under base vertical face of wall source of light masked from patrons view
Podium Bench
JBBS-123 L or R mounted under podium bench wash vertical face of wall source of light masked from patrons view
Seat wall w. integral bench
JBBS-LENGTH mounted under seat to wash vertical face of wall source of light masked from patrons view
recess lights at entrance to garage
PROPERTY LINE IS LIMIT OF WORK FOR 60-PENHALLOW ST / 0-DANIEL STREET APPLICATION
3 PLEASANT STREET
flora lights TBD
Seat wall w. integral bench
(4) JBS-173 mounted under seat to wash vertical face of wall source of light masked from patrons view
30 PENHALLOW STREET
JNC cantenary lights mounted 20' above grade
flora lights TBD
6' High Mural Wall
Utility Area
mural lights TBD feed from 60 Penhallow "mural" circuit
down
6" Curb
30 Penhallow Street
Benches
Curbed planter
Lower grade to expose existing flush step
Flush brick walkway
Raised curb planting
Sailor brick course
Transition curb
Existing curb
15 Pleasant Street
21 Pleasant Street
Flush granite
N
12/2/2019 2:59:49 PM

JSA

ARCHITECTS INTERIORS PLANNERS

273 CORPORATE DRIVE
PORTSMOUTH, NH 03801
T 603.436.2551
F 603.436.6973
www.jsainc.com

J & M Lighting Design Inc.
PO Box 1959
Kennebunkport, ME 04046
207.967.5223

60 PENHALLOW STREET at BRICK MARKET

Penhallow Street
Portsmouth, NH

DAGNY TAGGART LLC
McNABB PROPERTIES

Scale:	3/32" = 1'-0"
Date:	12/02/2019
Project Number:	P19081.02

REVISIONS

NO.	DESCRIPTION	DATE

TAC SUBMISSION

LIGHTING PLAN

A0.06-R1

DANIEL STREET

14 - 16 Market Square

visible decorative accent lights
inside building windows at 2nd and
3rd floor corner rooms

ILLUMINATION STUDY ASSUMES A FLAT HORIZONTAL PLANE
ALL ILLUMINATION LEVELS ARE MAINTAINED WITH A 20% DEPRECIATION

CONTRIBUTION FROM CITY OWNED COBRA-HEADS OR CITY DECORATIVE
LANTERN NOT INCLUDED IN ILLUMINANCE STUDY

CONTRIBUTION FROM HIDDEN BENCH AND PODIUM LIGHTS ARE
NOT INCLUDED IN ILLUMINANCE STUDY

CONTRIBUTION FROM MURAL OR FOUNTAIN LIGHT ARE
NOT INCLUDED IN ILLUMINANCE STUDY

CONTRIBUTION FROM INTERIOR BUILDING
ILLUMINATION IS INCLUDED IN CALCULATIONS

CONTRIBUTION FROM TYPE JOW EMERGENCY LIGHTS AT EGRESS
NOT INCLUDED IN CALCULATIONS

TYPE JCCS VERTICALLY MOUNTED ON DANIEL & PENHOLLOW
STREETS SIDE OF THE BUILDING ARE COLOR CHANGING
LUMINIOUS ELEMENTS RED,GREEN,BLUE AND WHITE ARE FOR
EFFECT AND NOT CONTRIBUTING TO ILLUMINATION LEVELS ON THE GROUND

PENHALLOW STREET

screen lights TBD

Utility Area

fountain lights TBD 2 circuits

60 Penhallow St

JBBS-123 L or R mounted under podium bench wash vertical face of wall
source of light masked from patrons view

recess lights at entrance to garage
are for reference values are not included
in calculations

JBBS-LENGTH mounted under seat to wash vertical face
of wall source of light masked from patrons view

flora lights TBD

flora lights TBD

JNC canterlary lights mounted 20' above grade

flora lights TBD

(4) JBS-173 mounted under seat to wash vertical face of
wall source of light masked from patrons view

Utility Area

mural lights TBD feed from 60 Penhallow
"mural"
circuit

30 Penhallow Street

Brick

3 PLEASANT STREET

ant Street

21 Pleasant Street

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INTERIORS
PLANNERS

273 CORPORATE DRIVE
PORTSMOUTH, NH 03801
T 603.436.2551
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J & M Lighting Design Inc.
PO Box 1959
Kennebunkport, ME 04046
207.967.5223

60 PENHALLOW STREET
at BRICK MARKET

Penhallow Street
Portsmouth, NH

DAGNY TAGGART LLC
McNABB PROPERTIES

Scale: 3/32" = 1'-0"
Date: 12/02/2019
Project Number: P19081.02

REVISIONS		
NO.	DESCRIPTION	DATE

TAC SUBMISSION

PHOTOMETRIC PLAN

A0.07-R1

JSA
ARCHITECTS
INTERIORS
PLANNERS

0 Daniel Street (60 Penhallow Street)

Site Plan Review 11-18-2019

Green Building Statement

WATER

- Protect water quality – Eliminate surface parking lot.
- Conserve Water -- Target 30% reduction in fixtures water use over building code, meeting EPACT 2005.

ENERGY

- Conserve Energy -- Target 50% Energy Use Index (EUI) Reduction over code compliance (IECC2015) in each building. Use early energy modeling to analyze effective scenarios. Provide high performance thermal envelope. Achieve Energy Star certification and associated rebates. Use Heat Recovery for ventilation. Commission energy using systems. LED lighting throughout.
- Renewable Energy – Rooftop Solar Photovoltaic system for portion of building's energy needs.
- Building Performance -- Use industry tools to annually monitor and benchmark buildings. Train staff on proper building operation with comprehensive Facilities Staff Training and Systems Manuals.
- Reduce Low level ozone (smog) -- Provide safe and secure bicycle storage. Use only low-VOC products for construction and operation.

MATERIALS & RESOURCES

- Minimize waste (during construction and operation)
- Use regional, renewable, low carbon footprint materials

INDOOR ENVIRONMENTAL QUALITY

- Thermal comfort -- Meet ASHRAE 55 Thermal Comfort Code. Address thermal envelope per above. Provide multiple zones of heating and cooling in each apartment.
- Indoor air quality (before and during occupancy) -- MEET ASHRAE 62 Ventilation Code in all occupied spaces. MEET LEED IEQ credit requirements.
- Views / connection to outdoors -- Provide views to outdoors for every regularly occupied space.
- Daylighting -- Achieve Daylight Factor of 2% minimum for every regularly occupied space.
- Individual controls (light, heat etc...) -- Provide individual controls for temperature and lighting.

November 18, 2019

MAX-2019184.00

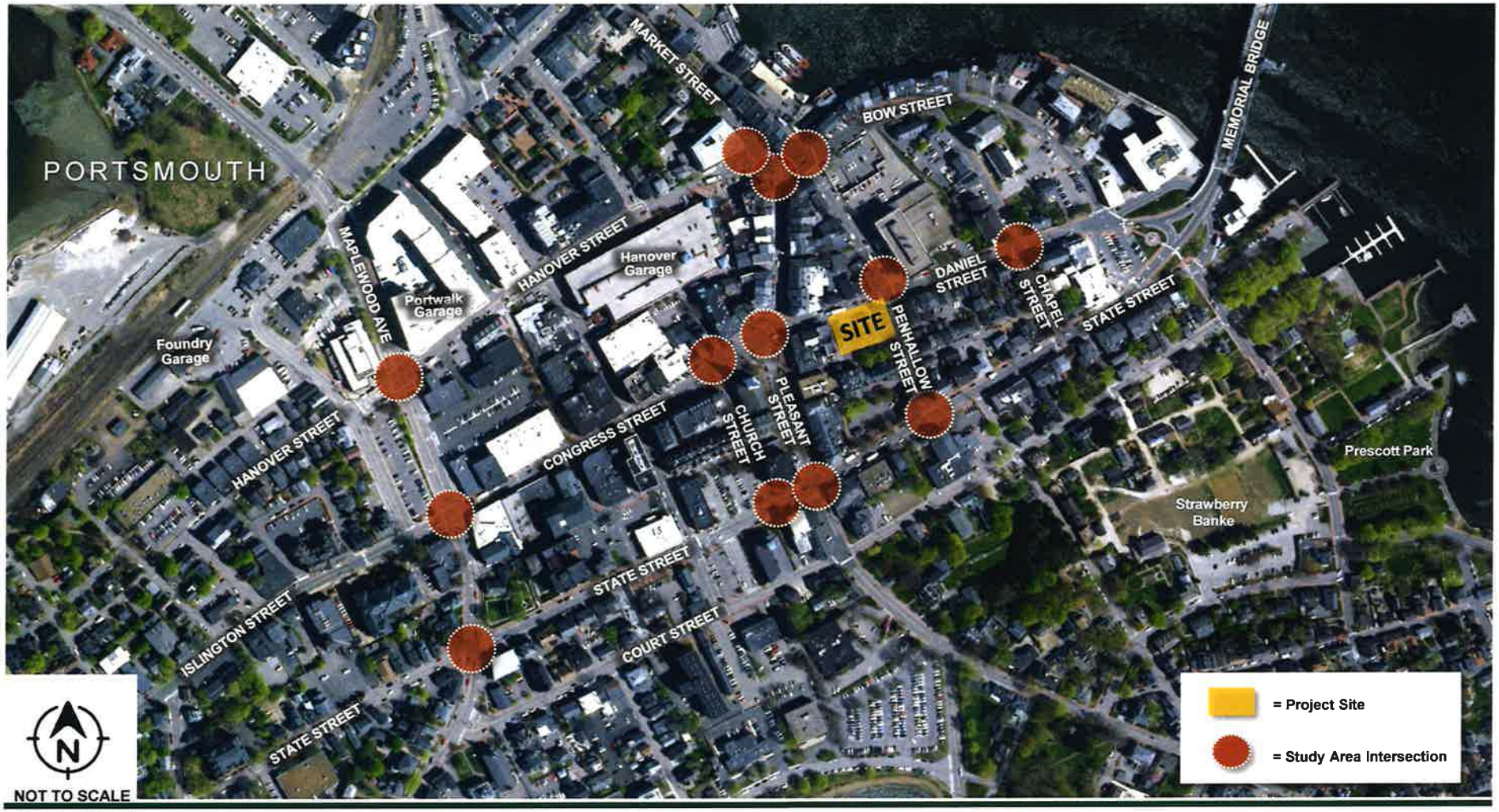
Mr. Eric B. Eby, P.E.
Department of Public Works
City of Portsmouth
680 Peverly Hill Road
Portsmouth, New Hampshire 03801

SUBJECT: Trip Generation Summary Letter
#60 Penhallow Street – Portsmouth, NH

Dear Mr. Eby:

Greenman-Pedersen, Inc. (GPI) is in the process of preparing a *Traffic Impact and Access Study (TIAS)* for a proposed mixed-use development, referred to as Brick Market, to located at #60 Penhallow Street in Portsmouth, New Hampshire. The existing site is currently a public 50-space parking lot with a single full-access / egress curb cut on Penhallow Street. The project consists of constructing a mixed-use development with a ±16,800 square foot (SF) of fast-food and fast-casual restaurant space on the first floor and ±41,600 SF of general office space on the second through fourth floors. The existing driveway will remain at Penhallow Street but be modified to provide garage access below street level. The site location in relation to the surrounding roadways is shown on the Project Location Map in Figure 1.

GPI and the Applicant met with representatives of the City of Portsmouth Planning Department on October 28, 2019 to review the scope of the TIAS. During this meeting, the Planning Department requested that the trip generation and distribution assumptions of the Project be provided to the City's Parking and Transportation Engineer for review prior to finalizing the TIAS. This letter is intended to provide a summary of the project-generated trips, mode split, and the corresponding trip distribution for review. A more comprehensive TIAS will be provided once the trip generation and distribution assumptions have been approved.



GPI Engineering Design Planning Construction Management
978.570.2995 GPINET.COM
Greenman-Pedersen, Inc.
181 Ballardvale Street
Suite 202
Wilmington, MA 01887

Figure 1
Site Location Map

TRIP GENERATION

The Project is proposed to consist of the construction of approximately 41,600 SF of office space and 16,800 SF of restaurant space. The restaurant space will be a food-court style restaurant, similar to Faneuil Hall in Boston, with a mix of fast-food and fast-casual dining options with shared seating. To estimate the volume of traffic to be generated by the proposed redevelopment, trip-generation rates published by the Institute of Transportation Engineers (ITE) *Trip Generation Manual* [1] were utilized for Land Use Code (LUC) 710 (General Office), LUC 930 (Fast Casual Restaurant), and LUC 933 (Fast-Food Restaurant without Drive-Through Window). Approximately half of the restaurant space was assumed to be fast-food style and half was assumed to be fast-casual style. The detailed trip generation calculations are provided as an Attachment and are summarized in Table 1.

Multi-Use Trips

Internal Capture

Studies have shown that for developments of mixed-use or multi-use sites, it is realistic to assume that there will be some multi-use trips within the site itself. For example, someone working in the office spaces may dine at one of the restaurants on-site. Therefore, a reduction in the overall trips experienced at the site driveway can be anticipated as a result of multi-use trips that include stops at more than one use on the site. Based on information published in ITE's *Trip Generation Handbook* [2], it is estimated that multi-use trips account for 2 to 10 percent of the trips generated by the site. The Multi-Use Development Trip Generation and Internal Capture Worksheets are provided in the Attachments.

External Capture

The proposed development is located within the downtown central business district of Portsmouth, in close proximity to numerous other retail, restaurant, office, residential, entertainment, hotel, and commercial uses. While many of the office trips generated by the project will be new to the area, a large portion of the restaurant trips will be shared with other retail, office, residential, and other uses within the downtown area. It is anticipated that patrons will park at a single location either within one of the public parking garages or within on-street parking spaces and visit multiple uses within the downtown, stopping at one of the restaurants as part of their trip. In addition, employees of surrounding area businesses, residents of downtown, or patrons of area hotels may choose to dine at one of the on-site restaurants. These patrons would likely walk to the site from other locations and would not be new to the area. GPI utilized the Multi-Use Development Trip Generation and Internal Capture worksheets contained within ITE's *Trip Generation Handbook* to estimate the potential number of trips that could be shared between the proposed restaurants and the surround area businesses, hotels, and residences. Based on this information, 45 to 75 percent of restaurant trips are anticipated to be shared with other downtown uses.

Pass-by Trips

Studies have shown that for restaurant developments, a substantial portion of the site-generated vehicle trips are already present in the adjacent passing stream of traffic or are diverted from another route to the proposed site. For example, some vehicles which are already on the roadways may decide to visit the site on their way to another destination. Based on information published in the ITE *Trip Generation Handbook*, the average *pass-by* trip percentage is 43 to 50 percent for fast-food and high-turnover sit-down restaurants. Due to the location of the proposed restaurants in the downtown business district, it is likely that pass-by trips will arrive to the site

[1] *Trip Generation, 10th Edition*. Institute of Transportation Engineers; Washington, DC; 2017.

[2] *Trip Generation Handbook, 3rd Edition*. Institute of Transportation Engineers; Washington, DC; September, 2017.

in the form of walking trips from patrons parking at another location downtown and visiting multiple stops before returning to their vehicle. For example, an area employee may stop at the restaurants to purchase dinner before leaving the downtown in their vehicle, or a person shopping in the downtown area may stop at the restaurant to grab lunch while shopping. Therefore, any pass-by trips generated by the proposed restaurant have been accounted for within the *external capture multi-use trips* described above.

Walking and Bicycling Trips

As previously noted, the proposed development is located within downtown Portsmouth in close proximity to multiple retail, restaurant, office, and commercial developments. In addition, a strong sidewalk network on the surrounding area roadways provides pedestrian connections between the site and these establishments. The City of Portsmouth has also made concerted efforts to provide bicycle accommodations throughout the downtown including dedicated bicycle lanes, shared lanes, and bicycle parking. As described in the *Multi-Use Trips – External Capture* section of this letter, approximately 45 to 75 percent of the restaurant trips are anticipated to be shared with surrounding area businesses and residences, and will travel to the site via walking or bicycling. In addition, based on U.S. Census Bureau information on means of travel for residence of Portsmouth, approximately 7.7 percent of Portsmouth residents travel to work via walking or biking. To provide a conservative (worse case) analysis scenario, 5 percent of the office trips were assumed to travel to/from the site via walking or bicycle.

Transit Trips

The Cooperative Alliance for Seacoast Transportation (COAST) and the University of New Hampshire (UNH) Wildcat Transit provide bus service along Congress Street / Daniel Street, Hanover Street, and Maplewood Avenue in the vicinity of the site. Based on U.S. Census Bureau data for residence of Portsmouth, approximately 1.4 percent of Portsmouth residents utilize public transit services to travel to/from work. It should be noted that this percentage includes also Portsmouth residents traveling to all places of employment, most of which may be located outside of the City. The percentage of residents using public transit to travel to places of employment within the City is likely to be much higher. To provide a conservative (worse case) analysis condition, no credit was applied for trips traveling to the site via public transportation.

The detailed trip generation and mode split calculations are provided in the Attachments. Table 1 provides a summary of the resulting site-generated trips.

Table 1
TRIP-GENERATION SUMMARY

Time Period / Direction	External Trips		Walking / Biking Trips		New Primary Trips		
	Office Trips [a]	Restaurant Trips [b]	Office Trips [c]	Restaurant Trips [d]	Office Trips [e]	Restaurant Trips [f]	Total Trips [g]
Weekday Daily	377	5,479	19	3,534	358	1,945	2,303
Weekday AM Peak Hour							
In	49	132	2	131	47	1	48
Out	3	82	0	40	3	42	45
Total	52	214	2	171	50	43	93
Weekday PM Peak Hour							
In	6	182	0	96	6	86	92
Out	39	171	2	131	37	40	77
Total	45	353	2	227	43	126	169
Saturday Daily	80	8,510	4	4,846	76	3,664	3,740
Saturday Midday Peak Hour							
In	7	380	0	204	7	176	183
Out	8	358	0	130	8	228	236
Total	15	738	0	334	15	404	419

[a] Based on ITE LUC 710 (General Office) for ±41,600 SF.
[b] Based on sum of ITE LUC 930 (Fast Casual Restaurant) for ±8,400 SF and ITE LUC 933 (Fast-Food Restaurant without Drive-Through) for ±8,400 SF.
[c] Five percent of office trips based on U.S. Census data.
[d] Trips based on mixed-use percentages to retail, residential, hotel, and entertainment uses.
[e] General office external trips minus walking / biking trips.
[f] Restaurant external trips minus walking / biking trips.
[g] New Primary Office Trips plus New Primary Restaurant Trips.

TRIP DISTRIBUTION

Having estimated project-generated vehicle trips, the next step is to determine the distribution of project traffic and assign these trips to the local roadway network.

Office Trips

The distribution of site-generated office trips was based on a Journey-to-Work model using U.S. Census Data for the place of residency of employees of Portsmouth, which was prepared as part of the Traffic Impact Study for the proposed McIntyre Building Federal property redevelopment project by Tighe & Bond. As part of the #60 Penhallow Street project, 77 parking spaces will be provided on-site within an underground garage to accommodate the proposed office use. Therefore, the trip distribution prepared as part of the McIntyre Building study was slightly modified to account for vehicles traveling directly to/from the on-site parking garage. The resulting trip distribution is graphically depicted in Figure 2 and summarized in Table 2 below.

Restaurant Trips

Similarly, the McIntyre Building redevelopment includes a residential component and is located in close proximity to the #60 Penhallow Street site. Therefore, the trip distribution assumptions used for the McIntyre project were utilized to distribute restaurant trips for the #60 Penhallow Street project. As previously noted in the *Trip Generation* section of this letter, the majority of restaurant trips are likely to be shared with other uses in the downtown area and will travel to/from the site via walking. However, the portion of *new primary* trips traveling to the proposed restaurants will likely park in nearby parking garages and walk to the site. The Hanover Garage and Portwalk Garage provide a large amount of parking at relatively low costs and are in close proximity to the site. Therefore, all of the *new primary* restaurant trips were assumed to travel to one of these two garages on Hanover Street. The resulting trip distribution is graphically depicted in Figure 3 and summarized in Table 2 below.

Table 2
TRIP DISTRIBUTION SUMMARY

Direction	Office Distribution (%)	Restaurant Distribution (%)
Middle Street to/from South	5	25
Market Street to/from North	20	15
Maplewood Avenue to/from North	60	30
Memorial Bridge to/from East	10	20
Islington Street to/from West	5	10
Total	100	100

The site-generated trips were distributed to the study area intersections based on the percentages in Table 2 above. The resulting site-generated trips are illustrated in Figures 4A, 4B, and 4C for the weekday AM, weekday PM, and Saturday midday peak hours, respectfully.

SUMMARY

GPI has estimated the site-generated vehicle trips associated with the proposed redevelopment of #60 Penhallow Street as described in this letter. This information will be utilized in the preparation of a comprehensive Traffic Impact and Access Study and will determine the extents of the study area. Therefore, we respectfully request your review and approval of the assumptions and resulting trip generation and distribution prior to moving forward with completion of the traffic study.

Should you have any questions, or require additional information, please contact me at (978) 570-2946.

Sincerely,

GREENMAN-PEDERSEN, INC.

Rebecca L. Brown, P.E., PTOE
Senior Project Manager

Enclosures:
Site-Generated Vehicle Trip Traffic-Volume Networks
Trip Generation Calculations
Mode Split Calculations
Trip Distribution Calculations

cc: Mark McNabb – Dagny Taggart, LLC (via email)
John Chagnon, P.E., LLS – Ambit Engineering (via email)

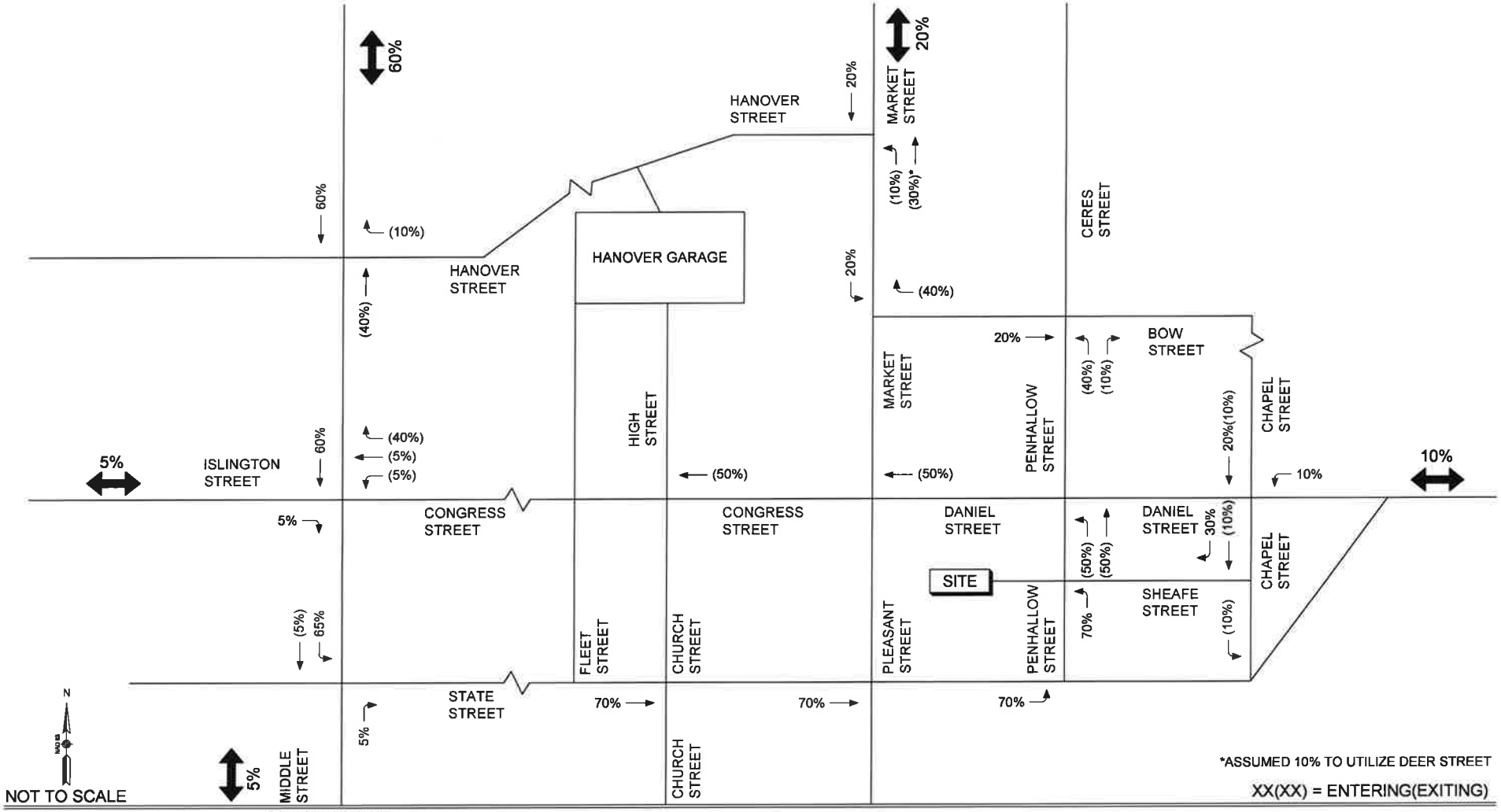


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Figure 2

Office Vehicle Trip Distribution

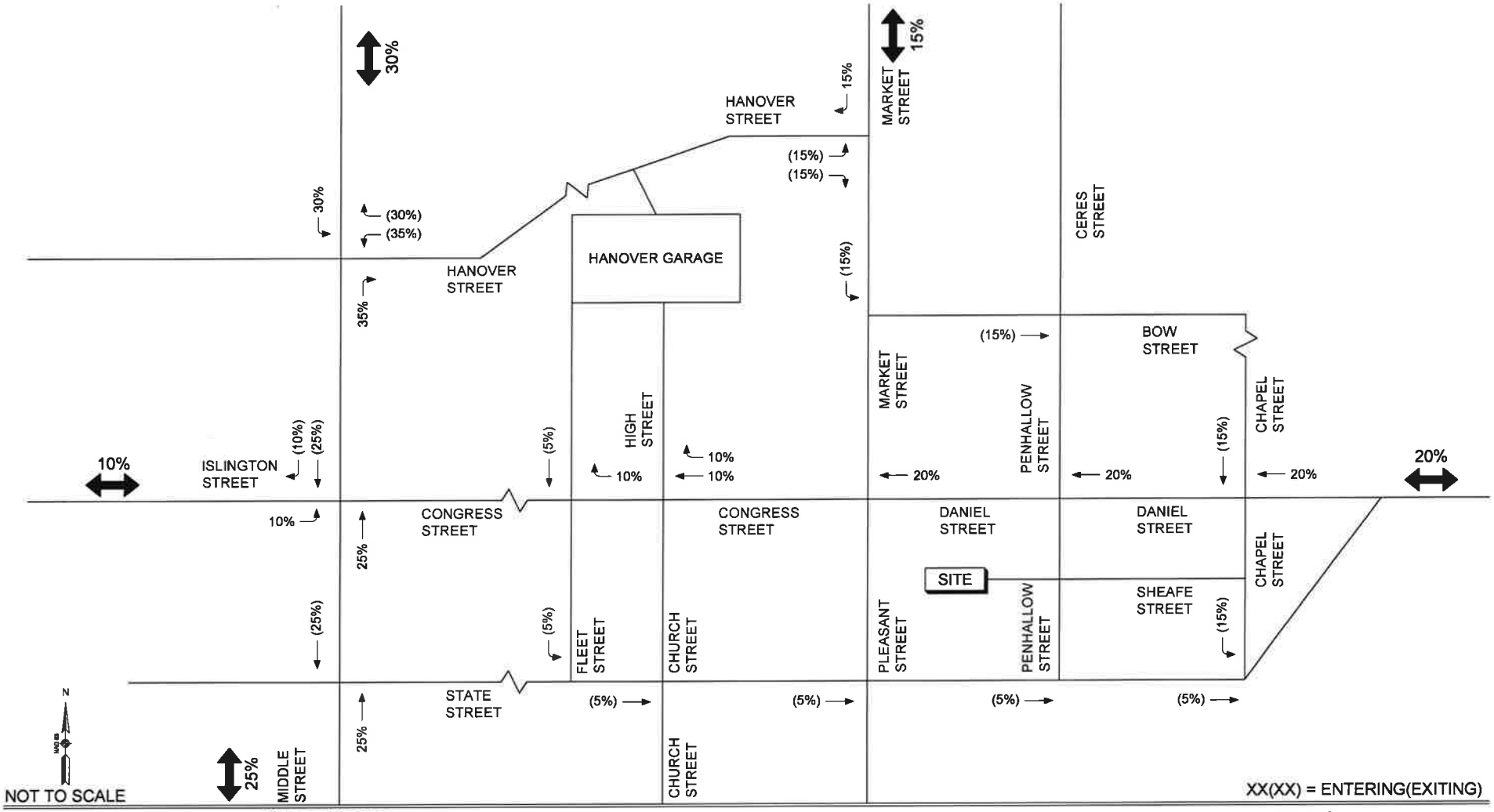

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Figure 3

Restaurant Vehicle Trip Distribution

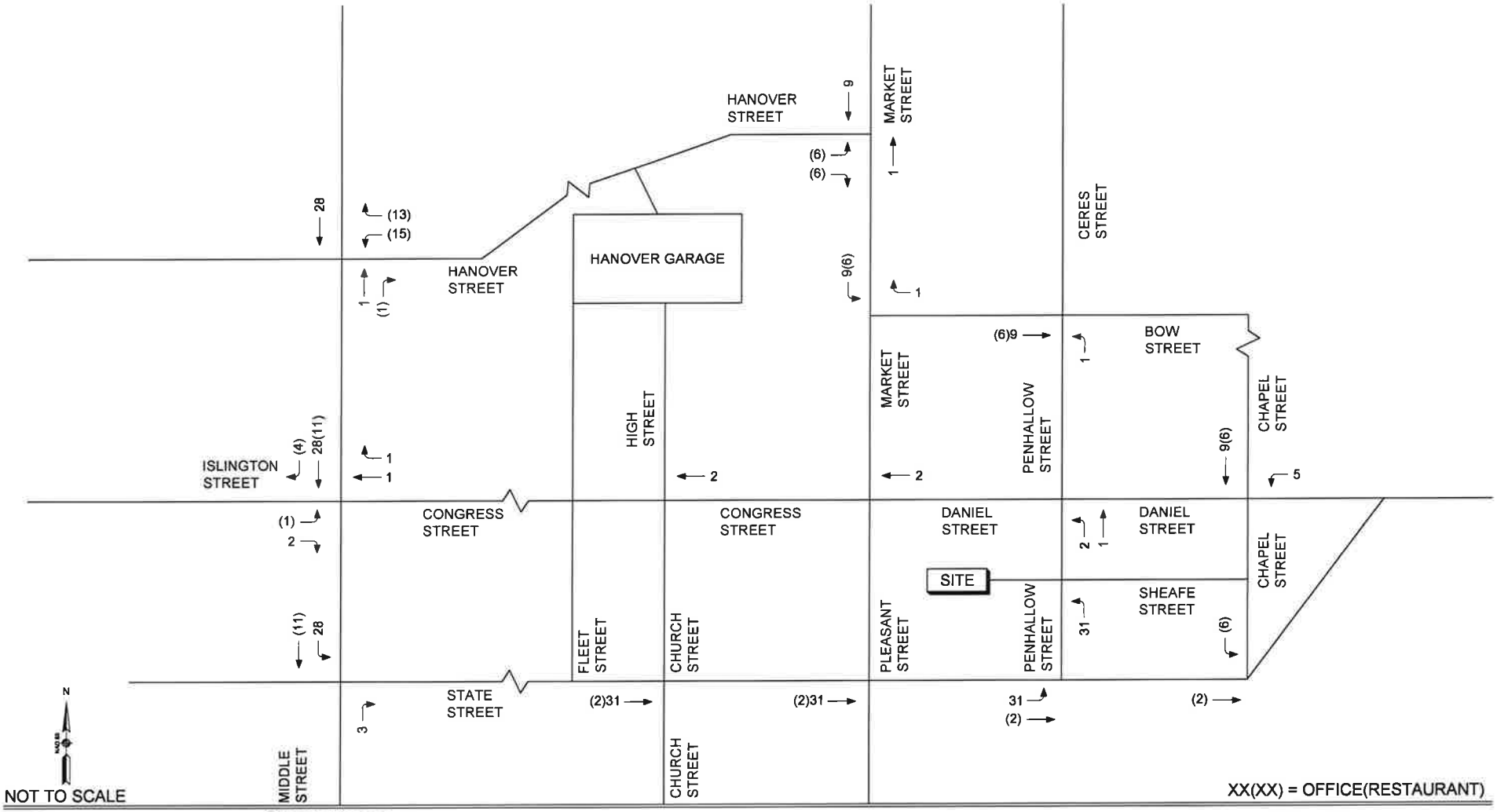

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Figure 4A

Site-Generated Trips
Weekday AM

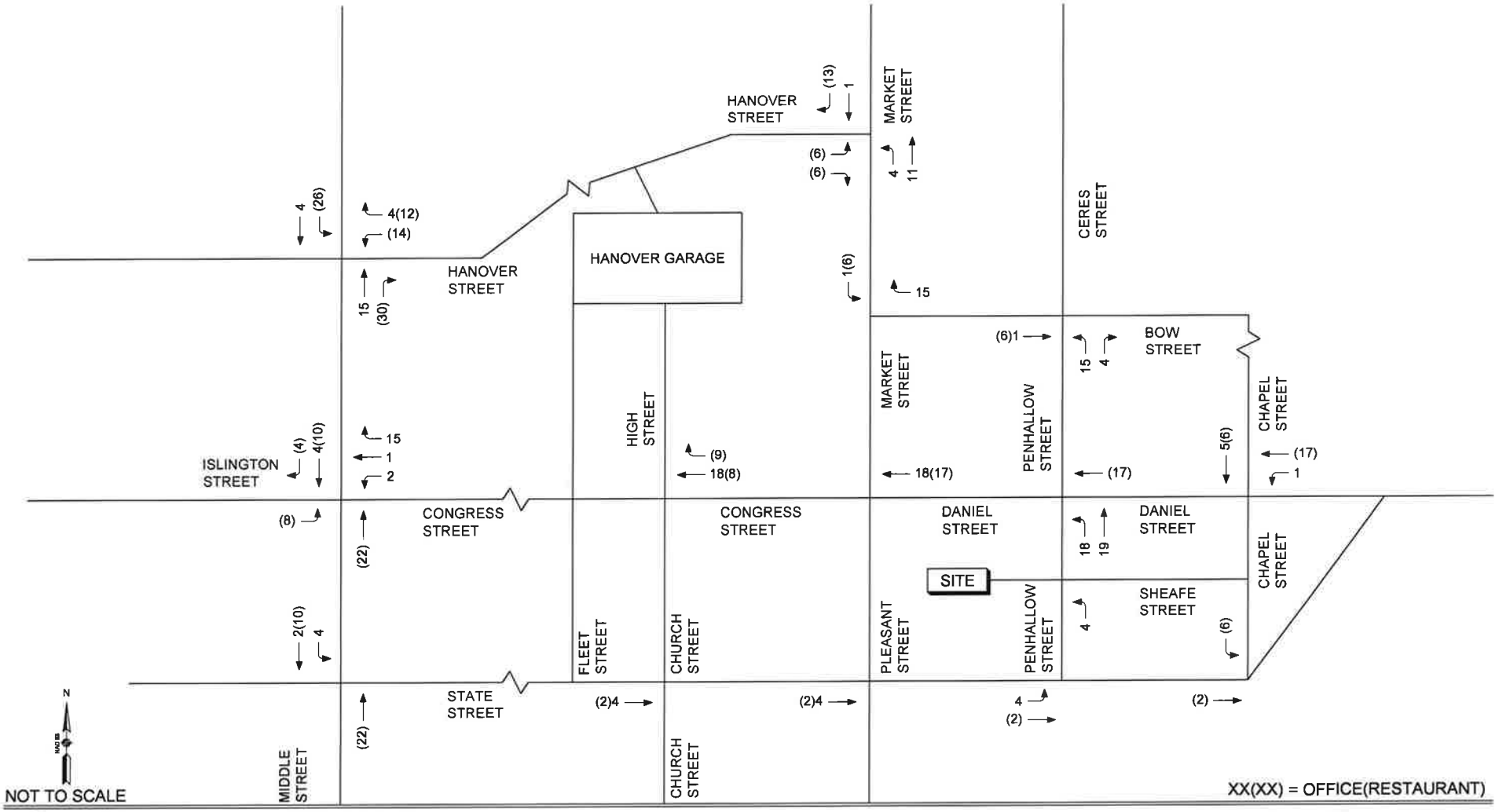

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Figure 4B

Site-Generated Trips
Weekday PM

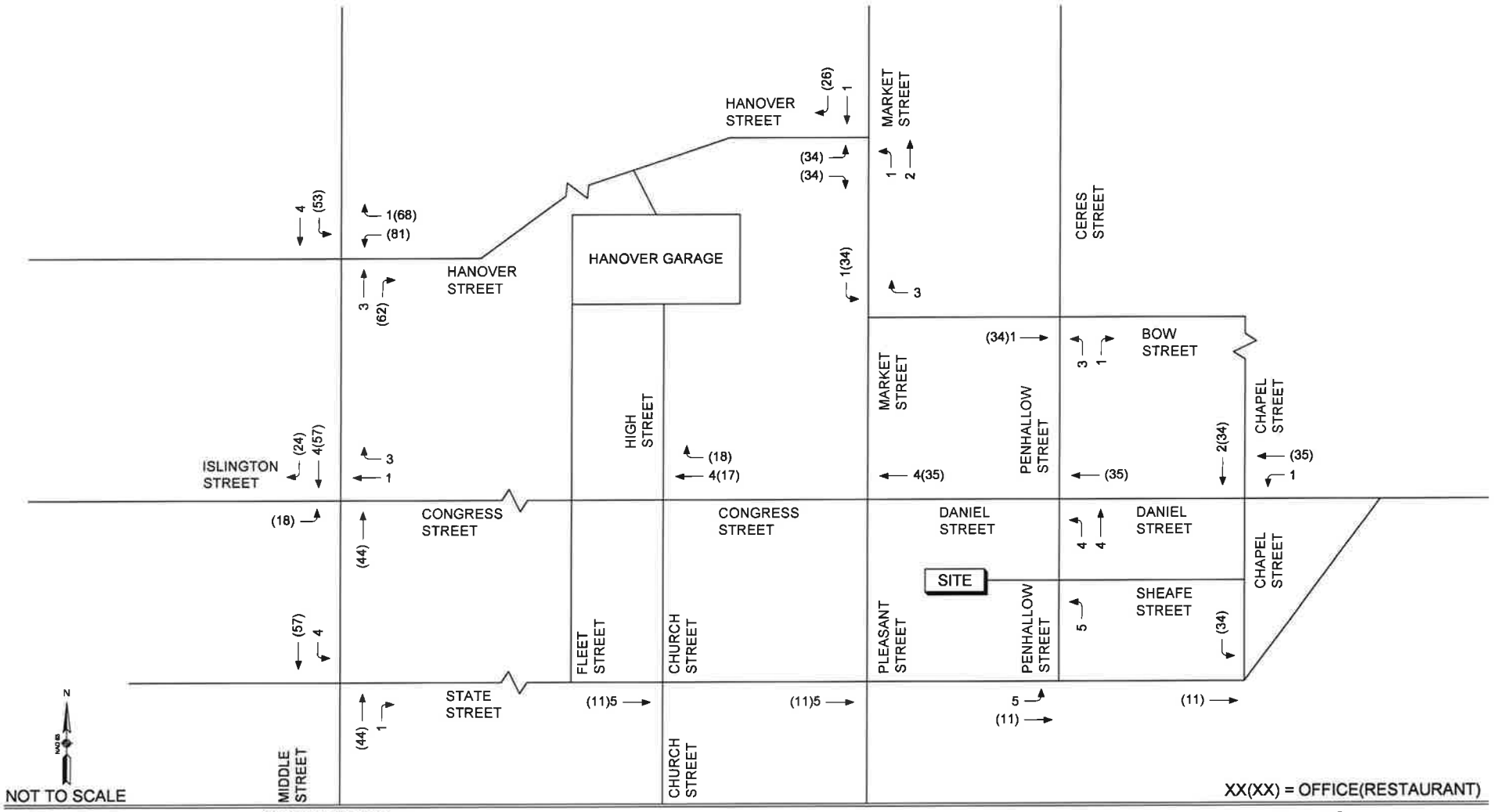

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Figure 4C

Site-Generated Trips
Saturday Midday

Size	Units	Land Use
41,600	SF	LUC 710
8,400	SF	LUC 933
8,400	SF	LUC 930

Walk/Bike Credit: 5%

		Total Trips				External Trips				Walking / Biking Trips				New Primary Trips			
		LUC 710	LUC 933	LUC 930	TOTAL	LUC 710	LUC 933	LUC 930	TOTAL	LUC 710	LUC 933	LUC 930	TOTAL	LUC 710	LUC 933	LUC 930	TOTAL
Weekday Daily	Entering	227	1,454	1,324	3,005	159	2,769		2,928	8	1,464		1,472	151	1,305		1,456
	Exiting	227	1,454	1,324	3,005	218	2,710		2,928	11	2,070		2,081	207	640		847
	Total	454	2,908	2,648	6,010	377	5,479		5,856	19	3,534		3,553	358	1,945		2,303
Weekday AM Peak Hour	Entering	57	127	11	195	49	132		181	2	131		133	47	1		48
	Exiting	9	84	6	99	3	82		85	0	40		40	3	42		45
	Total	66	211	17	294	52	214		266	2	171		173	50	43		93
Weekday PM Peak Hour	Entering	8	119	65	192	6	182		188	0	96		96	6	86		92
	Exiting	41	119	54	214	39	171		210	2	131		133	37	40		77
	Total	49	238	119	406	45	353		398	2	227		229	43	126		169
Saturday Daily	Entering	46	2,923	1,338	4,307	36	4,259		4,295	2	2,683		2,685	34	1,576		1,610
	Exiting	46	2,923	1,338	4,307	44	4,251		4,295	2	2,163		2,165	42	2,088		2,130
	Total	92	5,846	2,676	8,614	80	8,510		8,590	4	4,846		4,850	76	3,664		3,740
Saturday Midday Peak Hour	Entering	12	225	157	394	7	380		387	0	204		204	7	176		183
	Exiting	10	234	129	373	8	358		366	0	130		130	8	228		236
	Total	22	459	286	767	15	738		753	0	334		334	15	404		419

Institute of Transportation Engineers (ITE)

Land Use Code (LUC) 710 - General Office Building

General Urban/Suburban

Average Vehicle Trips Ends vs: 1000 Sq. Feet Gross Floor Area
Independent Variable (X): 41.600

AVERAGE WEEKDAY DAILY

Ln(T) = 0.97 Ln (X) + 2.50
Ln(T) = 0.97 Ln (41.600) + 2.50
Ln(T) = 6.12
T = 453.17
T = 454 vehicle trips
with 50% (227 vpd) entering and 50% (227 vpd) exiting.

WEEKDAY MORNING PEAK HOUR OF ADJACENT STREET TRAFFIC

T = 0.94 * (X) + 26.49
T = 0.94 * 41.600 + 26.49
T = 65.59
T = 66 vehicle trips
with 86% (57 vph) entering and 14% (9 vph) exiting.

WEEKDAY EVENING PEAK HOUR OF ADJACENT STREET TRAFFIC

Ln(T) = 0.95 Ln (X) + 0.36
Ln(T) = 0.95 Ln (41.600) + 0.36
Ln(T) = 3.90
T = 49.49
T = 49 vehicle trips
with 16% (8 vph) entering and 84% (41 vph) exiting.

SATURDAY DAILY

T = 2.21 * (X)
T = 2.21 * 41.600
T = 91.94
T = 92 vehicle trips
with 50% (46 vph) entering and 50% (46 vph) exiting.

SATURDAY PEAK HOUR OF GENERATOR

T = 0.53 * (X)
T = 0.53 * 41.600
T = 22.05
T = 22 vehicle trips
with 54% (12 vph) entering and 46% (10 vph) exiting.

Institute of Transportation Engineers (ITE)

Land Use Code (LUC) 933 - Fast-Food Restaurant without Drive-Through Window

General Urban/Suburban

Average Vehicle Trips Ends vs: 1,000 Sq. Ft. Gross Floor Area
Independent Variable (X): 8.400

AVERAGE WEEKDAY DAILY

T = 346.23 * (X)
T = 346.23 * 8.400
T = 2908.33
T = 2,908 vehicle trips
with 50% (1,454 vpd) entering and 50% (1,454 vpd) exiting.

WEEKDAY MORNING PEAK HOUR OF ADJACENT STREET TRAFFIC

T = 25.10 * (X)
T = 25.1 * 8.400
T = 210.84
T = 211 vehicle trips
with 60% (127 vph) entering and 40% (84 vph) exiting.

WEEKDAY EVENING PEAK HOUR OF ADJACENT STREET TRAFFIC

T = 28.34 * (X)
T = 28.34 * 8.400
T = 238.06
T = 238 vehicle trips
with 50% (119 vph) entering and 50% (119 vph) exiting.

SATURDAY DAILY

T = 696.00 * (X)
T = 696.00 * 8.400
T = 5846.40
T = 5,846 vehicle trips
with 50% (2,923 vpd) entering and 50% (2,923 vpd) exiting.

SATURDAY PEAK HOUR OF GENERATOR

T = 54.60 * (X)
T = 54.60 * 8.400
T = 458.64
T = 459 vehicle trips
with 49% (225 vph) entering and 51% (234 vph) exiting.

Institute of Transportation Engineers (ITE)

Land Use Code (LUC) 930 - Fast Casual Restaurant

General Urban/Suburban

Average Vehicle Trips Ends vs: 1,000 Sq. Ft. Gross Floor Area
Independent Variable (X): 8.400

AVERAGE WEEKDAY DAILY

T = 315.17 * (X)
T = 315.17 * 8.400
T = 2647.43
T = 2,648 vehicle trips
with 50% (1,324 vpd) entering and 50% (1,324 vpd) exiting.

WEEKDAY MORNING PEAK HOUR OF ADJACENT STREET TRAFFIC

T = 2.07 * (X)
T = 2.07 * 8.400
T = 17.39
T = 17 vehicle trips
with 67% (11 vph) entering and 33% (6 vph) exiting.

WEEKDAY EVENING PEAK HOUR OF ADJACENT STREET TRAFFIC

T = 14.13 * (X)
T = 14.13 * 8.400
T = 118.69
T = 119 vehicle trips
with 55% (65 vph) entering and 45% (54 vph) exiting.

SATURDAY DAILY

T = 318.62 * (X)
T = 318.62 * 8.400
T = 2676.41
T = 2,676 vehicle trips
with 50% (1,338 vpd) entering and 50% (1,338 vpd) exiting.

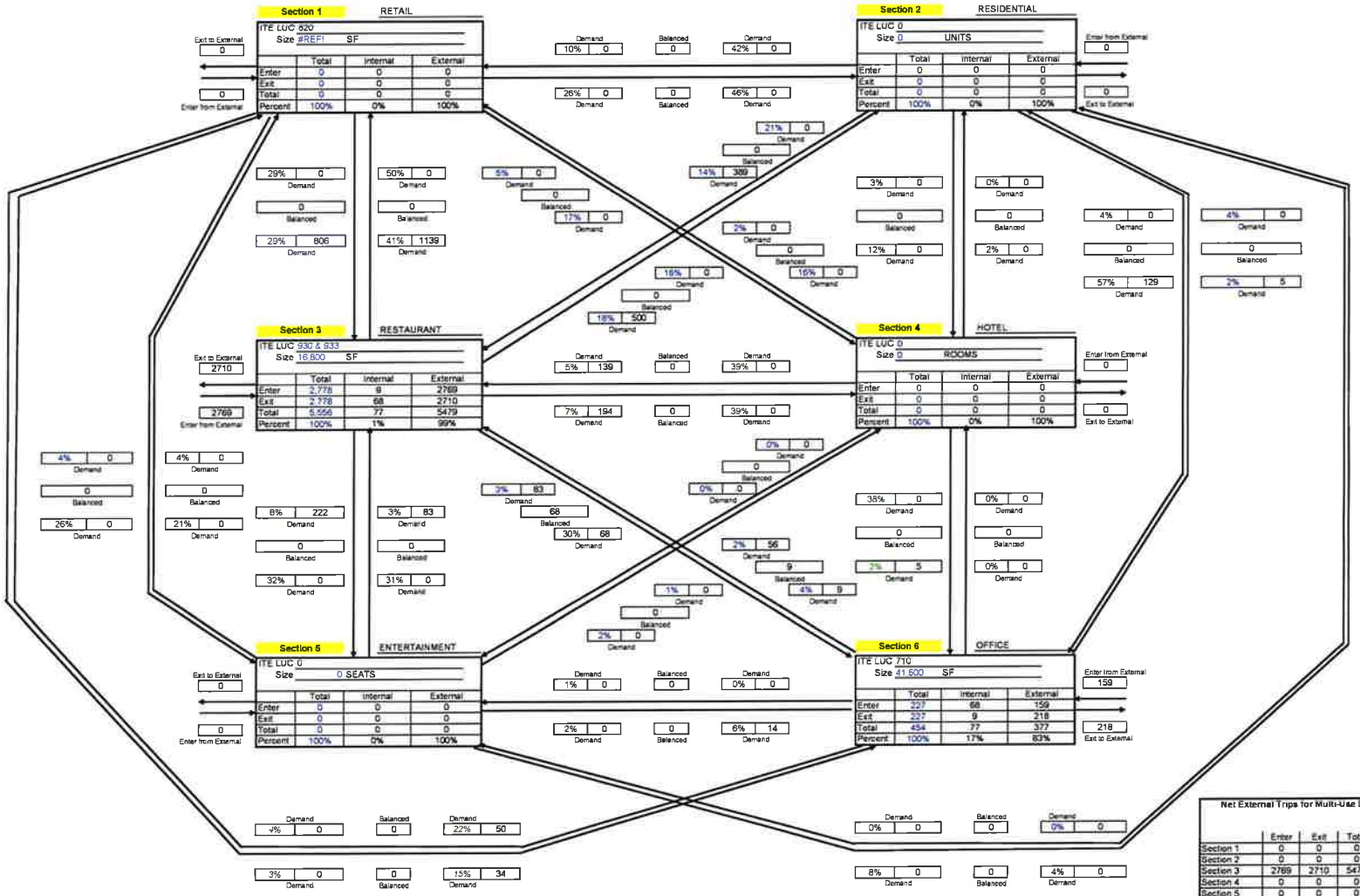
SATURDAY PEAK HOUR OF GENERATOR

T = 34.02 * (X)
T = 34.02 * 8.400
T = 285.77
T = 286 vehicle trips
with 55% (157 vph) entering and 45% (129 vph) exiting.

Analyst: Douglas S. Halpert, P.E.
Date: October 24, 2019

MULTI-USE DEVELOPMENT
TRIP GENERATION
AND INTERNAL CAPTURE SUMMARY

Name of Dvlpt: 60 Penhallow Street
Time Period: Weekday Daily



Net External Trips for Multi-Use Development

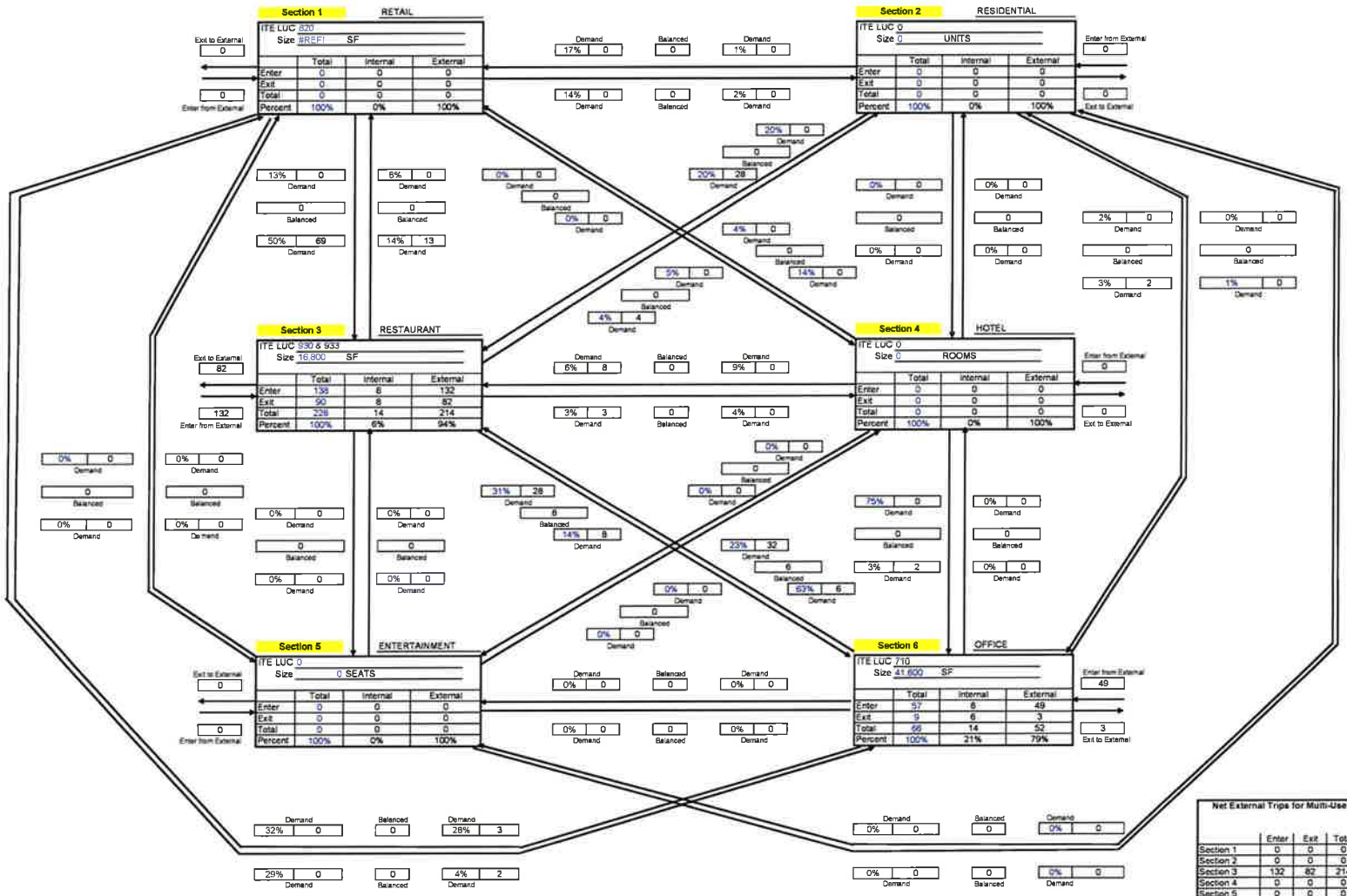
	Enter	Exit	Total	Single-Use Trip Gen Est.	
Section 1	0	0	0	0	
Section 2	0	0	0	0	
Section 3	2769	2710	5479	5556	
Section 4	0	0	0	0	
Section 5	0	0	0	0	
Section 6	159	218	377	454	Internal Capture
TOTAL	2928	2928	5856	6010	3%

Based on Weekday PM from ITE Trip Generation Handbook, 3rd Edition, August 2014.
Based on an average of Weekday AM or PM from ITE Trip Generation Handbook, 3rd Edition, August 2014

Analyst: Douglas S. Halpert, P.E.
Date: October 24, 2019

MULTI-USE DEVELOPMENT
TRIP GENERATION
AND INTERNAL CAPTURE SUMMARY

Name of Dvlpt: 60 Penhallow Street
Time Period: Weekday AM



Net External Trips for Multi-Use Development

	Enter	Exit	Total	Single-Use Trip Gen Est.
Section 1	0	0	0	0
Section 2	0	0	0	0
Section 3	132	82	214	228
Section 4	0	0	0	0
Section 5	0	0	0	0
Section 6	49	3	52	66
TOTAL	181	85	266	294

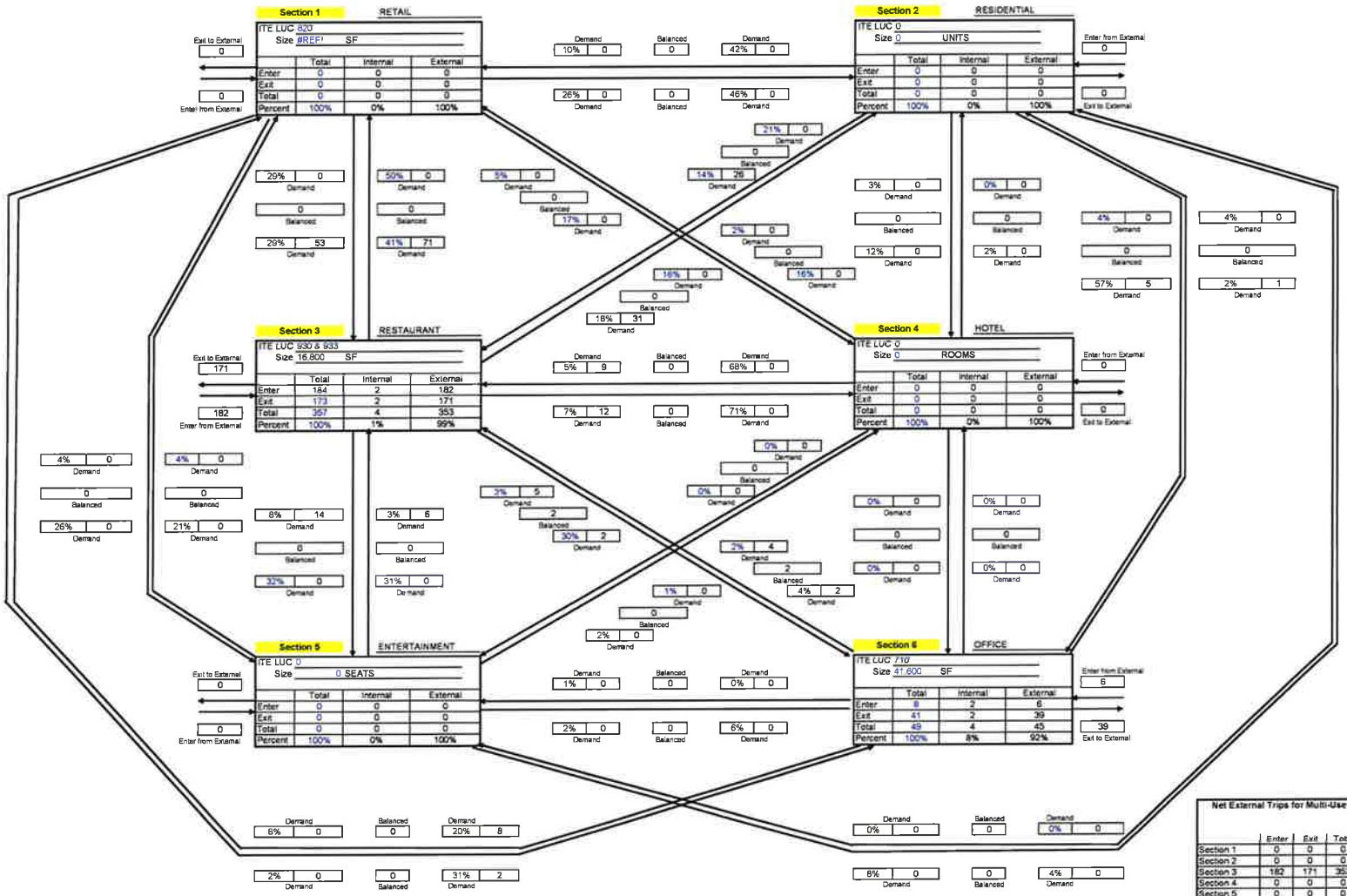
Internal Capture: 10%

Based on ITE Trip Generation Handbook, 3rd Edition, August 2014.

Analyst: Douglas S. Halpert, P.E.
Date: October 24, 2019

MULTI-USE DEVELOPMENT
TRIP GENERATION
AND INTERNAL CAPTURE SUMMARY

Name of Dvlpt: 60 Penhallow Street
Time Period: Weekday PM



Net External Trips for Multi-Use Development

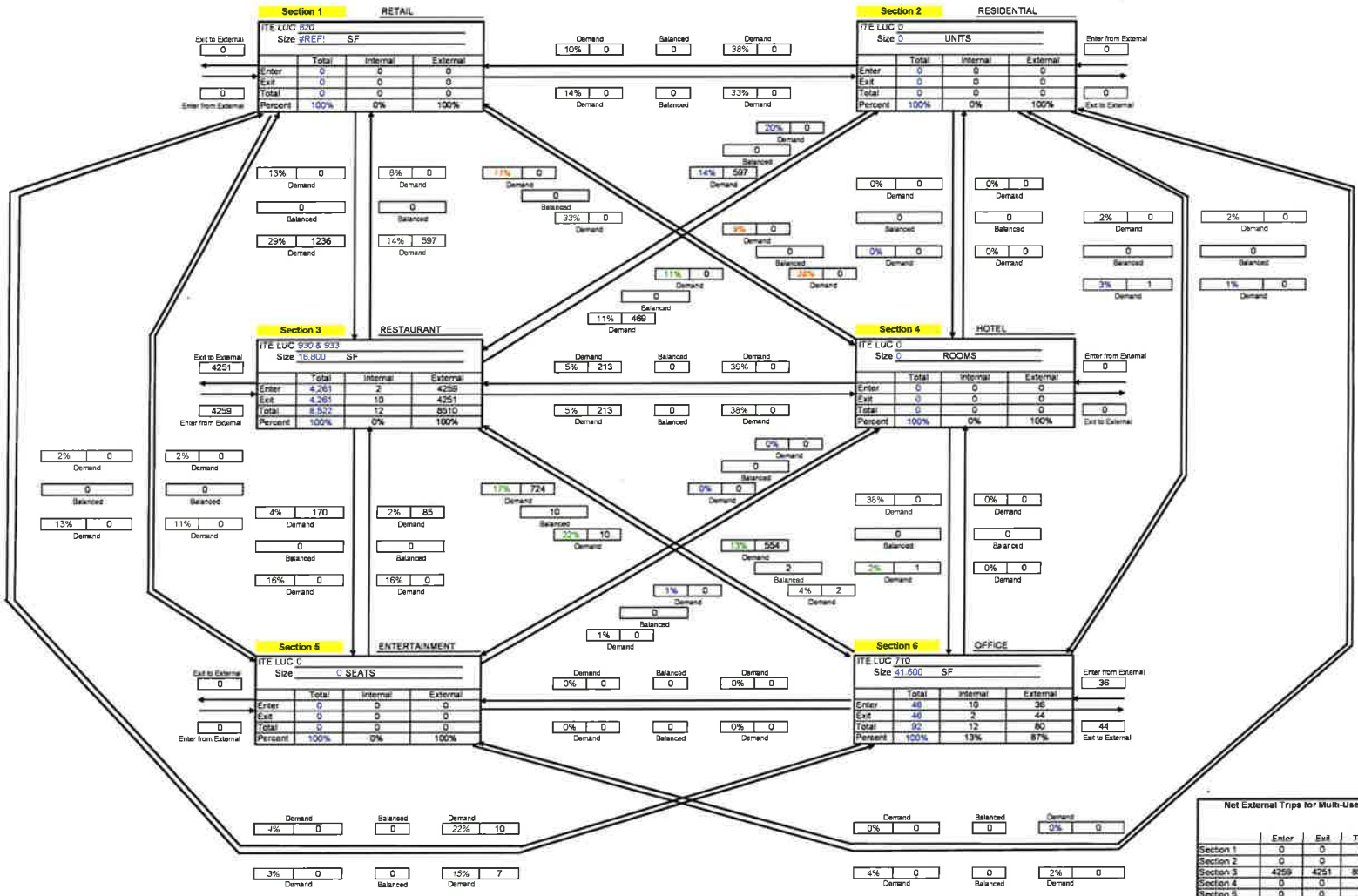
	Enter	Exit	Total	Single-Use Trip Gen Est.	
Section 1	0	0	0	0	
Section 2	0	0	0	0	
Section 3	182	171	353	357	
Section 4	0	0	0	0	
Section 5	0	0	0	0	
Section 6	6	39	45	49	Internal Capture
TOTAL	188	210	398	406	2%

Based on ITE Trip Generation Handbook, 3rd Edition, August 2014.

Analyst: Douglas S. Halpert, P.E.
Date: October 24, 2019

MULTI-USE DEVELOPMENT
TRIP GENERATION
AND INTERNAL CAPTURE SUMMARY

Name of Dvlpt: 60 Penhallow Street
Time Period: Saturday Daily



Net External Trips for Multi-Use Development

	Enter	Exit	Total	Single-Use Trip Gen Est
Section 1	0	0	0	0
Section 2	0	0	0	0
Section 3	4259	4251	8510	8522
Section 4	0	0	0	0
Section 5	0	0	0	0
Section 6	36	44	80	92
TOTAL	4295	4295	8590	8614

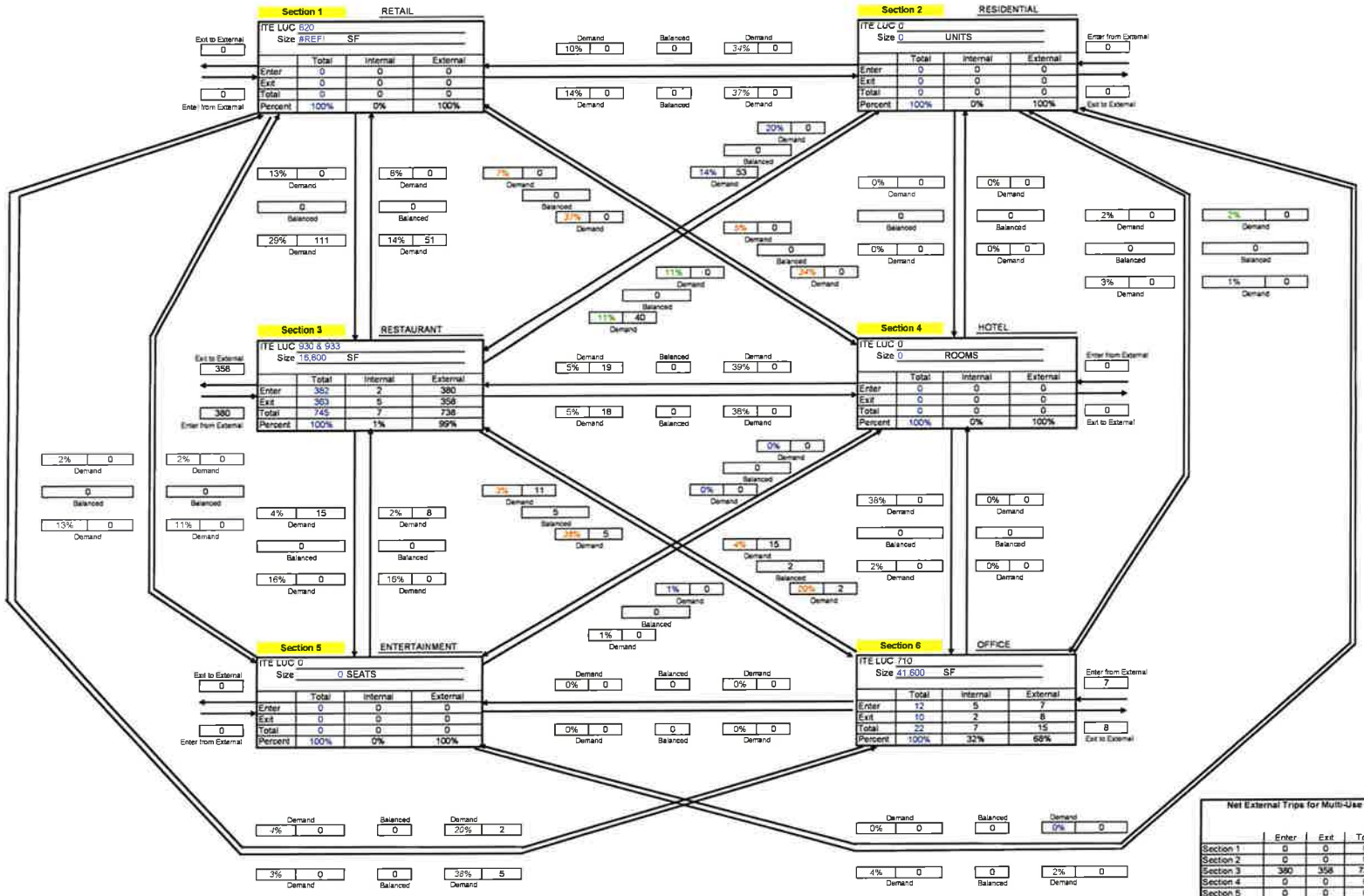
Internal Capture: 0%

Based on most conservative of Weekday AM or PM from ITE Trip Generation Handbook, 3rd Edition, August 2014.
Based on an average of Weekday AM or PM from ITE Trip Generation Handbook, 3rd Edition, August 2014.
Based on ITE Trip Generation Handbook, 2nd Edition, June 2004.

Analyst: Douglas S. Halpert, P.E
Date: October 24, 2019

MULTI-USE DEVELOPMENT
TRIP GENERATION
AND INTERNAL CAPTURE SUMMARY

Name of Dvlpt: 60 Penhallow Street
Time Period: Saturday Midday



Net External Trips for Multi-Use Development

	Enter	Exit	Total	Single-Use Trip Gen Est
Section 1	0	0	0	0
Section 2	0	0	0	0
Section 3	380	358	738	745
Section 4	0	0	0	0
Section 5	0	0	0	0
Section 6	7	8	15	22
TOTAL	387	366	753	767

Internal Capture: 2%

Based on most conservative of Weekday AM or PM from ITE Trip Generation Handbook, 3rd Edition, August 2014.
Based on an average of Weekday AM or PM from ITE Trip Generation Handbook, 3rd Edition, August 2014.
Based on ITE Trip Generation Handbook, 3rd Edition, June 2004

B08101

MEANS OF TRANSPORTATION TO WORK BY AGE

Universe: Workers 16 years and over
2013-2017 American Community Survey 5-Year Estimates

Supporting documentation on code lists, subject definitions, data accuracy, and statistical testing can be found on the American Community Survey website in the Technical Documentation section.

Sample size and data quality measures (including coverage rates, allocation rates, and response rates) can be found on the American Community Survey website in the Methodology section.

Although the American Community Survey (ACS) produces population, demographic and housing unit estimates, it is the Census Bureau's Population Estimates Program that produces and disseminates the official estimates of the population for the nation, states, counties, cities, and towns and estimates of housing units for states and counties.

	Portsmouth city, New Hampshire	
	Estimate	Margin of Error
Total:	12,584	+/-398
16 to 19 years	381	+/-161
20 to 24 years	1,265	+/-251
25 to 44 years	6,084	+/-431
45 to 54 years	2,327	+/-249
55 to 59 years	1,096	+/-198
60 to 64 years	714	+/-168
65 years and over	717	+/-141
Car, truck, or van - drove alone:	9,564	+/-465
16 to 19 years	145	+/-68
20 to 24 years	981	+/-267
25 to 44 years	4,631	+/-414
45 to 54 years	1,859	+/-245
55 to 59 years	838	+/-187
60 to 64 years	512	+/-120
65 years and over	598	+/-131
Car, truck, or van - carpooled:	896	+/-235
16 to 19 years	132	+/-106
20 to 24 years	54	+/-37
25 to 44 years	475	+/-173
45 to 54 years	97	+/-63
55 to 59 years	84	+/-58
60 to 64 years	54	+/-44
65 years and over	0	+/-21
Public transportation (excluding taxicab):	180	+/-79
16 to 19 years	0	+/-21
20 to 24 years	57	+/-47
25 to 44 years	71	+/-58
45 to 54 years	21	+/-24
55 to 59 years	15	+/-15
60 to 64 years	16	+/-17
65 years and over	0	+/-21
Walked:	761	+/-240
16 to 19 years	79	+/-86

	Portsmouth city, New Hampshire	
	Estimate	Margin of Error
20 to 24 years	131	+/-88
25 to 44 years	376	+/-154
45 to 54 years	70	+/-60
55 to 59 years	27	+/-22
60 to 64 years	57	+/-58
65 years and over	21	+/-24
Taxicab, motorcycle, bicycle, or other means:	210	+/-90
16 to 19 years	6	+/-11
20 to 24 years	0	+/-21
25 to 44 years	134	+/-74
45 to 54 years	55	+/-39
55 to 59 years	0	+/-21
60 to 64 years	15	+/-16
65 years and over	0	+/-21
Worked at home:	973	+/-225
16 to 19 years	19	+/-45
20 to 24 years	42	+/-58
25 to 44 years	397	+/-115
45 to 54 years	225	+/-70
55 to 59 years	132	+/-63
60 to 64 years	60	+/-46
65 years and over	98	+/-64

Data are based on a sample and are subject to sampling variability. The degree of uncertainty for an estimate arising from sampling variability is represented through the use of a margin of error. The value shown here is the 90 percent margin of error. The margin of error can be interpreted roughly as providing a 90 percent probability that the interval defined by the estimate minus the margin of error and the estimate plus the margin of error (the lower and upper confidence bounds) contains the true value. In addition to sampling variability, the ACS estimates are subject to nonsampling error (for a discussion of nonsampling variability, see Accuracy of the Data). The effect of nonsampling error is not represented in these tables.

Workers include members of the Armed Forces and civilians who were at work last week.

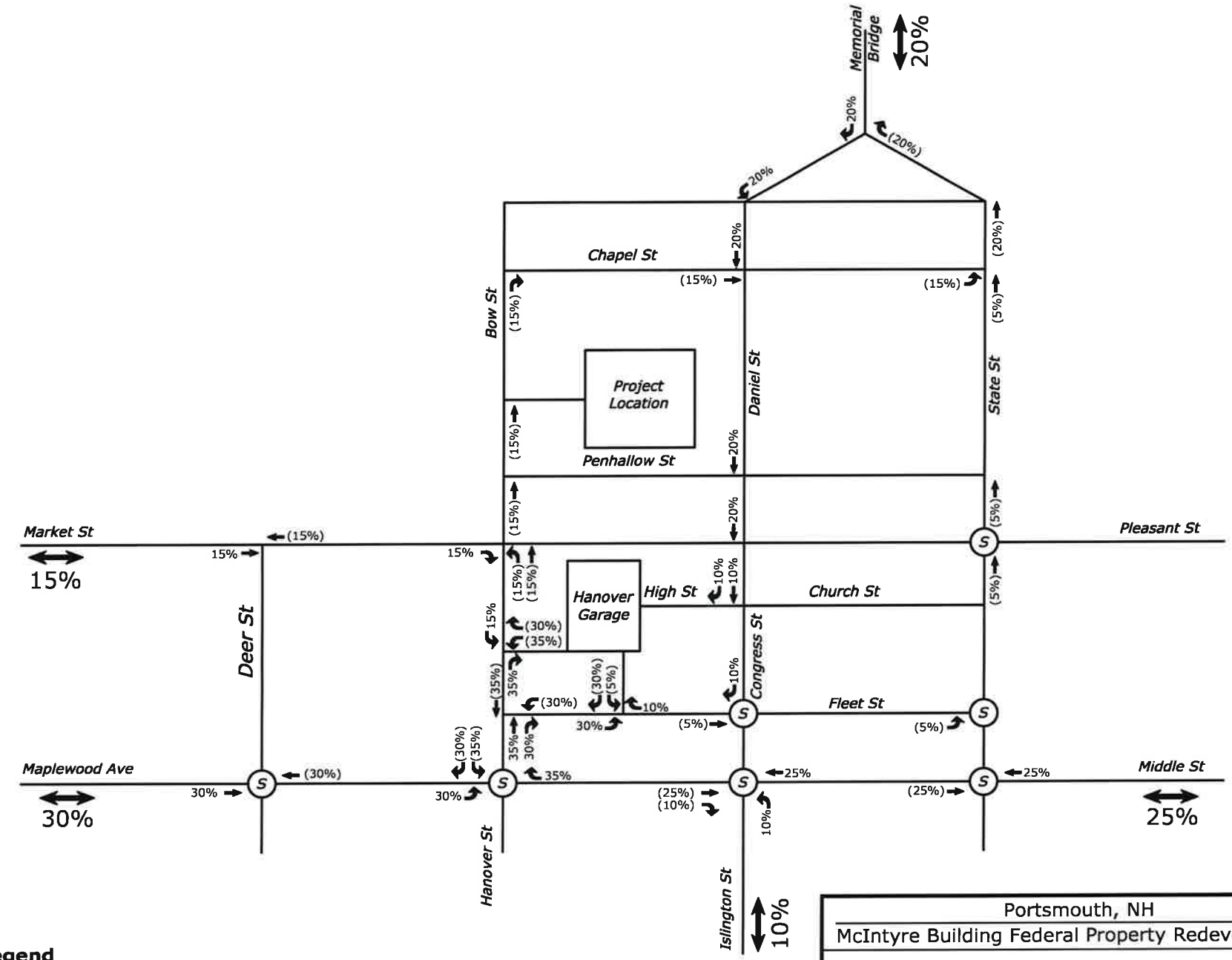
While the 2013-2017 American Community Survey (ACS) data generally reflect the February 2013 Office of Management and Budget (OMB) definitions of metropolitan and micropolitan statistical areas; in certain instances the names, codes, and boundaries of the principal cities shown in ACS tables may differ from the OMB definitions due to differences in the effective dates of the geographic entities.

Estimates of urban and rural populations, housing units, and characteristics reflect boundaries of urban areas defined based on Census 2010 data. As a result, data for urban and rural areas from the ACS do not necessarily reflect the results of ongoing urbanization.

Source: U.S. Census Bureau, 2013-2017 American Community Survey 5-Year Estimates

Explanation of Symbols:

1. An '**' entry in the margin of error column indicates that either no sample observations or too few sample observations were available to compute a standard error and thus the margin of error. A statistical test is not appropriate.
2. An '-' entry in the estimate column indicates that either no sample observations or too few sample observations were available to compute an estimate, or a ratio of medians cannot be calculated because one or both of the median estimates falls in the lowest interval or upper interval of an open-ended distribution.
3. An '-' following a median estimate means the median falls in the lowest interval of an open-ended distribution.
4. An '+' following a median estimate means the median falls in the upper interval of an open-ended distribution.
5. An '***' entry in the margin of error column indicates that the median falls in the lowest interval or upper interval of an open-ended distribution. A statistical test is not appropriate.
6. An '******' entry in the margin of error column indicates that the estimate is controlled. A statistical test for sampling variability is not appropriate.
7. An 'N' entry in the estimate and margin of error columns indicates that data for this geographic area cannot be displayed because the number of sample cases is too small.
8. An '(X)' means that the estimate is not applicable or not available.



Legend

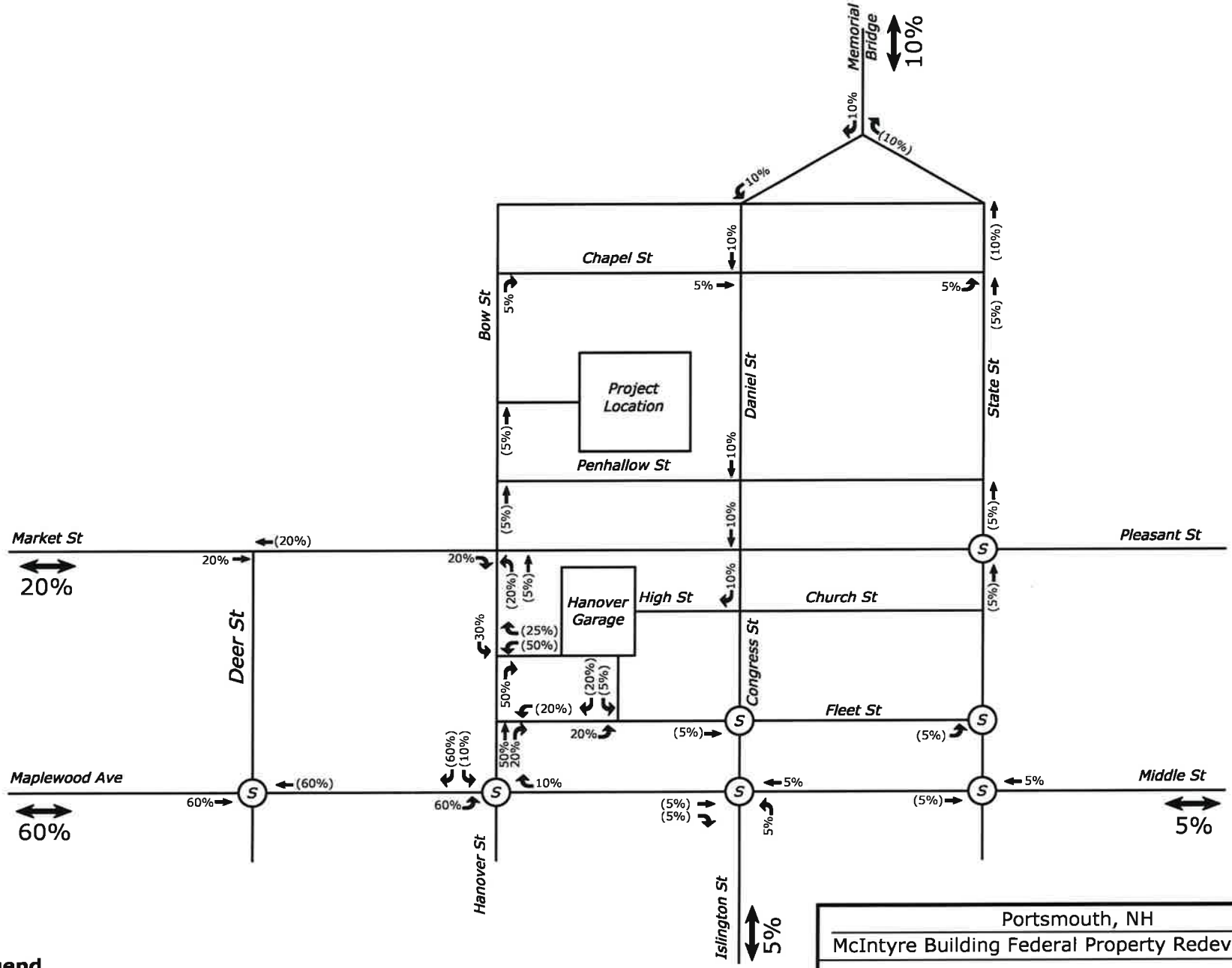
(S) Traffic Signal
XX Entering Traffic
(XX) Exiting Traffic

Portsmouth, NH
McIntyre Building Federal Property Redevelopment

Retail Trip Distribution

DATE 10/17/2019
FIGURE 3

Tighe&Bond
www.tighebond.com



Legend

(S) Traffic Signal
XX Entering Traffic
(XX) Exiting Traffic

Portsmouth, NH
McIntyre Building Federal Property Redevelopment

Office Trip Distribution

DATE 10/17/2019
FIGURE 5

Tighe&Bond
www.tighebond.com

[/en]

Swing o Mat

The underground system with a foldable walkway platform

The walkway platform of our Swing o Mat underground container system is 90° foldable. Thus, no emptying hook is visible, and the waste can be collected with either a steel container or big bag.

Product Specifications

- Volume: 3,0 – 5,0 m³
- Modular System
- Steel Container or Big Bag
- Throw-in column: different models available
- Emptying Hooks : Mushroom, 1 Hook

Suitable to collect

- Mixed Waste
- Paper + Cardboard
- Plastic + Plastic Bottles
- Glass
- Aluminium
- Recycables

Options

Fill Level Sensor

Electronic Access Control

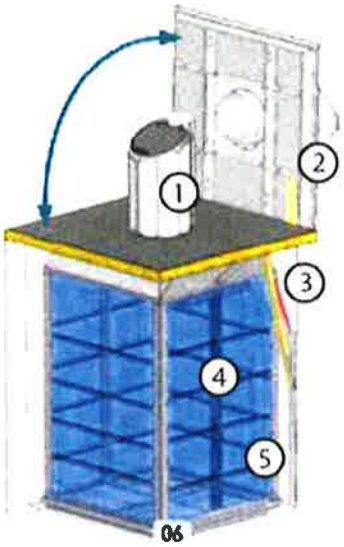
[/en/products/options/fuellstandsensor] [/products/options/zutrittsystem]

Weighing Systems

Service + Maintenance

[/en/products/options/verwiegungssysteme] [/services/service-maintenance]

TRASH CHUTES



Product Description

1. Throw-in Column
2. Tiltable Walkway Platform
3. Cylinder
4. Steel Contaner or Big Bag
5. Concrete Element

Get in touch with us

[LOT 31]

EASEMENT FOR PUBLIC ACCESS AND USE OF COMMUNITY SPACE

THIS EASEMENT HEREIN IS GRANTED this _____ day of _____, 2019 by Dagny Taggart, LLC, a New Hampshire limited liability company having an address of 30 Penhallow Street, Suite 300 East, City of Portsmouth, County of Rockingham, State of New Hampshire 03801, ("Grantor") unto the City of Portsmouth, New Hampshire ("Grantee") for public access to and use of certain pocket parks, use of community space and sidewalks as set forth herein.

WITNESSETH

WHEREAS, Grantor acquired a tract of land located at 3 Pleasant Street, City of Portsmouth, County of Rockingham, State of New Hampshire described in Exhibit A attached hereto and made a part hereof (the "Property"); and

WHEREAS, reference is made to a plan entitled "Brick Market, Master Plan, Community Space, Tax Map 107, Lots 27, 31 & 42, Owners: Dagny Taggart, LLC & Coventry Assets, Ltd. Property Located At: 3 Pleasant Street, 30 & 60 Penhallow Street, City of Portsmouth, County of Rockingham, State of New Hampshire," prepared by Ambit Engineering, Inc., dated July 25, 2019, as revised and recorded herewith at the Rockingham County Registry of Deeds (the "Community Space Plan"); and

WHEREAS, the Grantor, as provided herein, wishes to dedicate a certain portion of the Property as Community Space, as defined by the Portsmouth Zoning Ordinance further, to convey an easement for public access to, and use of community space and sidewalks, all as shown on the Community Space Plan;

NOW THEREFORE, in consideration of the sum of One Dollar ($1.00), to be paid by the City, and other good and valuable consideration, the receipt of which is hereby acknowledged by the Grantor, Grantor conveys the easement as follows:

1. **Grant of Easements.** Grantor hereby grants, transfers and conveys to Grantee, for the benefit of the public, with only pedestrian access thereto, a nonexclusive permanent right to use and enjoy those portions of the Property depicted on the Community Space Plan consisting of an area of 3,952 square feet on the Property, to be used concurrently with similar Community Space on Tax Map 107, Lot 31 and Tax Map 107 Lot 42, with an aggregate Community Space with all three lots of 11,962 square feet, all as shown on the Community Space Plan (the "Community Space Easement").

2. **Restrictions.** The Community Space Easement shall be used by the public pursuant to this instrument only during the hours of 8:00 a.m. through 10:00 p.m. Notwithstanding any provision of this instrument to the contrary, the Grantor reserves the right, in its sole discretion, to change the hours during which the Community Space Easement is available for use by the public and to impose reasonable restrictions on the use of the Community Space Easement to enable Grantor to maintain and repair the Property and improvements thereon, provided that such restrictions do not substantially and permanently impair or diminish the rights of the public provided herein. Subject to the terms of this instrument, the public use of the Community Space Easement shall be governed by the City Ordinances of the City of Portsmouth, including without limitation, Chapter 3, Public Health, Article IV Noise Control, Section 3.401 et seq. ("City Ordinance"), so long as the City Ordnance does not conflict with any existing easements affecting the Property or conflict with the existing use of the Property by the Grantor.

3. **Reserved Rights.** Grantor reserves the rights to conduct all legally permitted activities within the Community Space Easement, and to alter and improve the Community Space Easement, provided that such activities, alterations and/or improvements do not substantially interfere with the rights granted hereby. Not by way of limitation of the foregoing, Grantor shall have the right to use the Community Space Easement as collateral for subsequent borrowings, provided that any mortgage or lien arising from such borrowing shall be subordinated to this Community Space Easement. Grantor may, from time to time, relocate one or more portions of the Community Space Easement to another location on the Property, subject to approval by the Grantee, which approval shall not be unreasonably withheld, conditioned or delayed.

4. **Nonexclusive Easement.** The Community Space Easement is nonexclusive. Grantor retains the right to make any use of the Community Space Easement, including, but not limited to, the right to utilize the Community Space Easement for outside activities including, the placement of tables, umbrellas and chairs for customer dinning from restaurants during seasonal weather when patrons desire to sit outside, the creation of staging and audience areas for artists, musical performances and other entertainment purposes provided such uses do not unreasonably interfere with the Grantee's and the public's use and enjoyment of the Community Space Easement. Grantor also retains the right to grant concurrent and additional easements on, over or under the Community Space Easement to third parties for such uses as the location of underground improvements, the location of utilities and drainage or otherwise, provided such use or uses to not unreasonably interfere with Grantee's and the public's use and enjoyment of the Community Space Easement. Nothing contained in this Community Space Easement shall be construed an exclusive right to the Grantee, or the general public, and/or as affording the

public a right of access to any portion of the Property other than access which is consistent with this Community Space Easement.

5. **Maintenance and Repair.** The maintenance of the Community Space Easement shall be the sole responsibility of the Grantor, and its successors and assigns.

6. **Encroachments.** The Community Space Easement is subject to all existing encroachments of utilities and improvements on, over and under the Community Space Easement, and to all future encroachments of utilities and improvements constructed or installed on or around the Community Space Easement (subject, however, to the terms of the preceding paragraphs).

7. **Costs and Liabilities.** Grantor agrees to bear all costs and liabilities of any kind related to the operation, upkeep, and maintenance of the Property, and to defend, indemnify, hold harmless, and release the City of Portsmouth, from and against any and all actions, claims, damages, liabilities, or expenses that may be asserted by any person or entity, including Grantor, relating thereto. Without limiting the foregoing, the City of Portsmouth shall not be liable to Grantor or any other person or entity in connection with any entry upon the Property pursuant to this Community Space Easement, or on account of any claim, liability, damage, or expense suffered or incurred by or threatened against Grantor or any other person or entity, except as such claim, liability, damage, or expense is the result of the City of Portsmouth's, its agents or employee's negligence or willful misconduct.

8. **Acts Beyond Grantor's Control.** Nothing contained in this Community Space Easement shall be construed to entitle Grantee to bring any action against Grantor for any injury to or change in the Community Space Easement resulting from causes beyond Grantor's control, including, without limitation, natural processes, by force majeure, without limitation, fire, flood, storm, and earth movement, or from any prudent action taken by Grantor under emergency conditions to prevent, abate, or mitigate significant injury to the Community Space Easement or the remainder of the Property resulting from such causes.

9. **Covenants Run with the Land.** The Community Space Easement granted herein shall be perpetual in nature, shall run with the land and shall benefit and be binding upon the Grantor, its successors and assigns. This Community Space Easement shall be recorded in the Rockingham County Registry of Deeds.

10. **City Ordinance Application.** The use, public or private, of the Community Space Easement shall be subject to and comply with the City Ordinances of the City of Portsmouth.

11. **Notices.** Any notice, demand, request, or other communication that either party desires or is required to give to the other under this Community Space Easement shall be in writing and either served personally or sent by United States mail, postage prepaid, certified, return receipt requested, and shall be mailed to the parties at the following addresses:

To Grantor:

Dagny Taggart, LLC,
30 Penhallow Street, Suite 300 East
Portsmouth, NH 03801

To City:

City of Portsmouth, New Hampshire
1 Junkins Avenue
Portsmouth, NH 03801

12. **Amendment.** Grantor, or its successors and/or assigns, and City may mutually agree to amend or modify this Community Space Easement, provided that any such amendment or modification is in writing and signed by both parties, and is consistent with the purpose of this Community Space Easement. No amendment or modification of this Community Space Easement shall take effect unless and until it is recorded in the Rockingham County Registry of Deeds.

13. **Applicable Law.** This Community Space Easement shall be construed and interpreted according to the substantive law of the State of New Hampshire.

Meaning and intending to convey an easement over a portion of the Property conveyed to the Grantor by Warranty Deed of Jarbel Realty, LLC, dated April 5, 2019 and recorded at the Rockingham County Registry of Deeds at Book 5990, Page 1701.

This is an exempt transfer pursuant to RSA 78-B:2(I).

IN WITNESS WHEREOF, Grantor and City have executed this Community Space Easement as set forth, below.

Grantor: Dagny Taggart, LLC,

By: _____
Mark A. McNabb, Manager

Grantee: City of Portsmouth, New Hampshire

By: _____
John P. Bohenko, City Manager

ACKNOWLEDGEMENTS

STATE OF NEW HAMPSHIRE
COUNTY OF ROCKINGHAM

On this ____ day of _____, 2019, before me, the undersigned notary public, personally appeared Mark A. McNabb, Manager of Dagny Taggart, LLC, a New Hampshire limited liability company, proved to me through satisfactory evidence of identification, which was a valid driver's license, to be the person whose name is signed on the preceding or attached document, and acknowledged to me that he/she signed it voluntarily for its stated purpose.

_____

Notary Public:
My Commission Expires:

STATE OF NEW HAMPSHIRE
COUNTY OF ROCKINGHAM

On this ____ day of _____, 2019, before: me, the undersigned notary public, personally appeared John P. Bohenko, Manager of the City of Portsmouth New Hampshire, proved to me through satisfactory evidence of identification, which was a valid driver's license, to be the person whose name is signed on the preceding or attached document, and acknowledged to me that he/she signed it in his capacity as stated therein and voluntarily for its stated purpose.

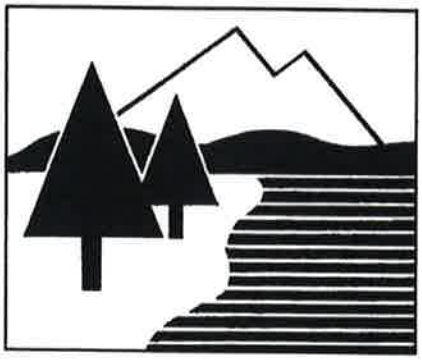
_____

Notary Public:
My Commission Expires:

DRAINAGE ANALYSIS

SITE REDEVELOPMENT

60 PENHALLOW STREET
PORTSMOUTH, NH



October 8, 2019

Revised: November 18, 2019

Ambit Engineering, Inc.

Civil Engineers and Land Surveyors
200 Griffin Road, Unit 3
Portsmouth, NH 03801
Phone: 603.430.9282; Fax: 603.436.2315
E-mail: jlm@ambitengineering.com
(Ambit Job Number 3039)

TABLE OF CONTENTS

EXECUTIVE SUMMARY

This drainage analysis examines the pre-development (existing) and post-development (proposed) stormwater drainage patterns for the proposed development which includes a constructing a multi-story mixed use building at 60 Penhallow Street in Portsmouth, NH. The site is shown on the City of Portsmouth Assessor's Tax Map 107 as Lot 27. The lot size is 23,279 square-feet (0.53 acres).

The new building will be serviced by public water and public sewer. The development has the potential to increase stormwater runoff to adjacent properties, and therefore must be designed in a manner to prevent that occurrence. This will be done primarily by capturing stormwater runoff and routing it through appropriate stormwater facilities, designed to ensure that there will be no increase in peak runoff from the site as a result of this project.

The hydrologic modeling uses the "Extreme Precipitation" values from The Northeast Regional Climate Center (Cornell University) for modeling purposes. Because Portsmouth is in the Seacoast area, we have increased these values by 15% and incorporated these values in this report.

SITE REDEVELOPMENT

60 Penhallow Street

PORTSMOUTH, NH

INTRODUCTION / PROJECT DESCRIPTION

This drainage report is designed to assist the owner, planning board, contractor, regulatory reviewer, and others in understanding the impact of the proposed development project on local surface water runoff and quality. The project site is shown on the City of Portsmouth, NH Assessor's Tax Map 107 Lot 27.

Bounding the site to the north is Daniel Street. Bounding the site to the West are commercial buildings with frontage along Daniel Street and Market Square / Pleasant Street. Bounding the site to the south is a commercial building with frontage on Penhallow Street. Bounding the Site to the east is Penhallow Street. The subject property is situated in the Character District 4 (CD4), Downtown Overlay District (DOD) and the Historic District (HDC). A vicinity map is included in the Appendix to this report.

The proposed development plan is to construct a new commercial building with a below grade, two level garage and other associated improvements such as utilities and landscaping. The project is anticipated to begin construction in the spring of 2020 and be substantially completed by the summer of 2021.

This report includes information about the existing site and the proposed development necessary to analyze stormwater runoff and to design any required mitigation. The report includes maps of pre-development and post-development watersheds, sub-catchment areas and calculations of runoff. The report will provide a narrative of the stormwater runoff and describe numerically and graphically the surface water runoff patterns for this site. Proposed stormwater management and treatment structures and methods will also be described, as well as erosion and sediment control practices. To fully understand the proposed site development the reader should also review a complete site plan set in addition to this report.

METHODOLOGY

This report uses the US Soil Conservation Service (SCS) Method for estimating stormwater runoff. The SCS method is published in The National Engineering Handbook (NEH), Section 4 "Hydrology" and includes the Technical Release No. 20, (TR-20) "Computer Program for Project Formulation Hydrology", and Technical Release No. 55 (TR-55) "Urban Hydrology for Small Watersheds" methods. This report uses the HydroCAD version 10.0 program, written by HydroCAD Software Solutions LLC, Chocorua, N.H., to apply these methods for the calculation of runoff and for pond modeling. Hydrologic modeling employs the "Extreme Precipitation" values from The Northeast Regional Climate Center (Cornell University) increased by 15%. These values have been used and are included in this report.

Time of Concentration (Tc) is calculated by entering measured flow path data such as flow path type, length, slope and surface characteristics into the HydroCAD program. For the purposes of this report, and as directed by TR55, a minimum time of concentration of 5 minutes is used.

The storm events used for the calculations in this report are the 2-year, 10-year and 50-year (24-hour) storms. Watershed basin boundaries have been delineated and subsequently revised using topographic maps prepared and updated by Ambit Engineering survey data, record plans and field observations to confirm.

SITE SPECIFIC INFORMATION

Based on the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS), Soil Survey of Rockingham County, New Hampshire, the site is made up of one soil type:

699 – Urban land. This soil has been assigned a Hydrologic Soil Group (HSG) classification of B, with a Low runoff class.

The physical characteristics of the site consist of (3-15%) grades that generally slope downward into the center of the site. At least three catch basins located on site provide adequate drainage in the existing conditions. Elevations on the site range from 30 to 27 feet above sea level. Currently the site is a private commercial parking lot. The existing vegetation around the lot consists of established grasses, shrubs and trees.

According to the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) number 33015C0259E (effective date May 17, 2005), the project site is not located in a floodplain. A copy of the FIRM map is included in the Appendix.

PRE-DEVELOPMENT DRAINAGE

The existing site drains via overland flow from the outer bounds of the property towards the center of the site to three catch basins located within the parking lot. These three catch basins combine and discharge to a 12" HDPE through CB 5966 located along the curb line in Penhallow Street. We have placed the design point at the end of the existing 12" HDPE, entering CB 5966 and then into an 18" HDPE main trunkline at DMH 5963. There is no existing stormwater detention or treatment on the site.

In the pre-development condition, the site has been analyzed as four watershed basins (ES1, ES2, ES3 and ES4) based on localized topography and discharge location. As described above, ES1 represents the majority of on site runoff while ES2, ES3 and ES4 are the offsite runoff from adjacent streets. The runoff curve number (CN) for Subcatchment ES1 is calculated to be 91 with impervious coverage of 76.9%. The runoff curve numbers for ES2, ES3 and ES4 is 98 since they are entirely impervious surface consisting of asphalt and brick sidewalk.

Table 1: Pre-Development Watershed Basin Summary

Watershed Basin ID	Basin Area (SF)	Tc (MIN)	CN	2-Year Runoff (CFS)	10-Year Runoff (CFS)	50-Year Runoff (CFS)	Design Point
ES1	30,432	5.0	91	2.25	3.67	5.80	DP1
ES2	4,330	5.0	98	0.37	0.56	0.86	DP1
ES3	1,701	5.0	98	0.14	0.22	0.34	DP1
ES4	803	5.0	98	0.07	0.10	0.16	DP1

POST-DEVELOPMENT DRAINAGE

The proposed development has been designed to match the pre-development drainage patterns to the greatest extent feasible. In the post-development condition, the site has been analyzed as four (4) separate subcatchments (PS1, PS2, PS3 and PS4) based on localized topography and discharge locations. In general, the proposed subcatchments are similar area as the existing subcatchemnts. Basin PS1 is the rooftop runoff from the new building. PS2 is the runoff from Daniel Street. PS3 is the runoff from Penhallow Street. PS4 is runoff from the alley way that flows out to Penhallow Street.

The runoff curve number (CN), Time of Concentration (TC), % Impervious, and Peak Flow Rate (CFS) for the Post Development Watersheds are shown in Table 2: Post Development Water Shed Summary below.

Table 2: Post-Development Watershed Basin Summary

Watershed Basin ID	Basin Area (SF)	Tc (MIN)	CN	2-Year Runoff (CFS)	10-Year Runoff (CFS)	50-Year Runoff (CFS)	Design Point
PS1	17,104	5.0	98	1.46	2.23	3.39	DP1
PS2	5,601	5.0	98	0.48	0.73	1.11	DP1
PS3	1,995	5.0	98	0.17	0.26	0.40	DP1
PS4	12,558	5.0	94	1.00	1.58	2.45	DP1

The overall impervious coverage of the area analyzed in this report for all basins **increases** from 30,251 square feet (81.1%) in the pre-development condition to 35,773 square feet (95.9%) in the post-development condition. In the existing condition, parking is on the surface and surfaces treated with asphalt and used for vehicles are known to be high pollutant load areas. In the proposed condition this parking is located underground and since runoff from the site in the proposed condition is largely roof top and brick type paver walkways, there is no real need for treatment of stormwater runoff as the runoff will be relatively clean.

Table 3 shows a summary of the comparison between pre-developed flows and post-developed flows for the design point.

Table 3: Pre-Development to Post-Development Comparison

	Q2 (CFS)		Q10 (CFS)		Q25 (CFS)		Q50 (CFS)	
Design Point	Pre	Post	Pre	Post	Pre	Post	Pre	Post
DP1	2.83	3.11	4.56	4.80	5.90	6.11	7.16	7.34

EROSION AND SEDIMENT CONTROL PRACTICES

The erosion potential for this site as it exists is low due to the existing pavement at the site. During construction, the major potential for erosion is wind and stormwater runoff. The

contractor will be required to inspect and maintain all necessary erosion control measures, as well as installing any additional measures as required. All erosion control practices shall conform to "The Stormwater Management and Erosion Control Handbook for Urban and Developing Areas in New Hampshire." Some examples of erosion and sediment control measures to be utilized for this project during construction may include:

- Silt Soxx (or approved alternative) located at the toe of disturbed slopes
- Stabilized construction entrance at access point to the site
- Temporary mulching and seeding for disturbed areas
- Spraying water over disturbed areas to minimize wind erosion

After construction, permanent stabilization will be accomplished by permanent seeding, landscaping and surfacing the access drives and parking areas with asphalt paving

CONCLUSION

The existing site is largely impervious surface. The proposed development will add a nominal amount of impervious surface to the overall area. This results in marginal increases between 0.28 cfs and 0.18 cfs in stormwater runoff for the range of storms analyzed. Considering that there is a closed drainage system located within Penhallow Street, in our opinion these increases can be absorbed with no concern for negative impacts.

REFERENCES

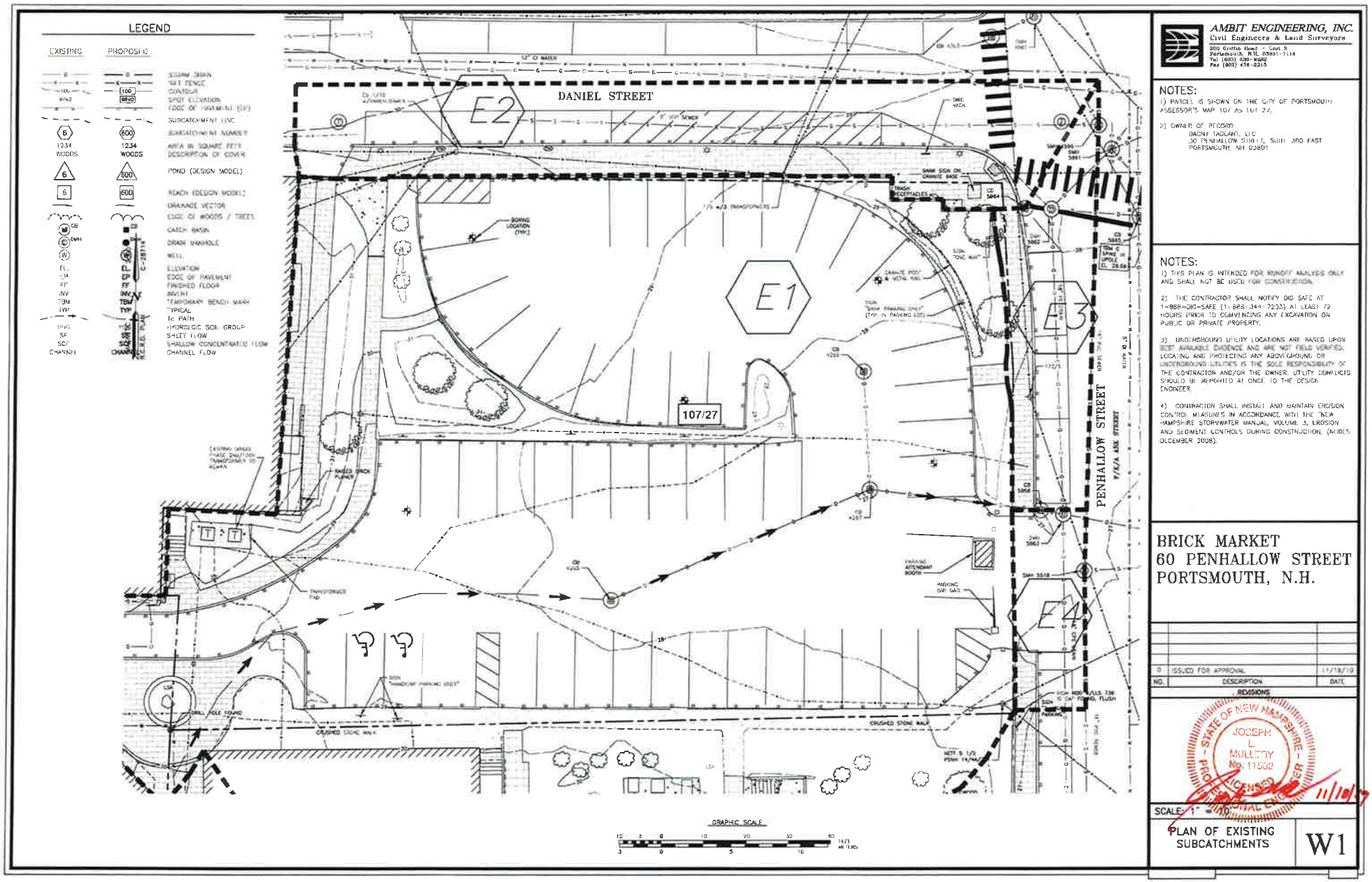
1. City of Portsmouth, NH. Site Plan Review Regulations amended September 15, 2016.

2. Comprehensive Environmental Inc. and New Hampshire Department of Environmental Services. *New Hampshire Stormwater Manual (Volumes 1, 2 and 3)*, December 2008 (Revision 1.0).

3. Minnick, E.L. and H.T. Marshall. *Stormwater Management and Erosion and Sediment Control Handbook for Urban and Developing Areas in New Hampshire*, prepared by Rockingham County Conservation District, prepared for New Hampshire Department of Environmental Services, in cooperation with USDA Soil Conservation Service, August 1992.

4. HydroCAD Software Solution, LLC. *HydroCAD Stormwater Modeling System Version 10.0* copyright 2013. HydroCAD Software Solution, LLC. *HydroCAD Stormwater Modeling System Version 10.0* copyright 2013.

5. University of New Hampshire Stormwater Center 2009 Biannual Report, Pages 14-21 for references to Lag time (TC) for Porous Pavement and Filtration Basins.



AMBIT ENGINEERING, INC.
Civil Engineers & Land Surveyors
200 Griffin Road - Unit 3
Portsmouth, N.H. 03801-7114
Tel (603) 430-9282
Fax (603) 436-2315

NOTES:
1) PARCEL IS SHOWN ON THE CITY OF PORTSMOUTH ASSESSOR'S MAP 107 AS LOT 27.

2) OWNER OF RECORD:
JACOV JACOBS, LLC
30 PENHALLOW STREET, SUITE 300 EAST
PORTSMOUTH, NH 03801

NOTES:
1) THIS PLAN IS INTENDED FOR RUNOFF ANALYSIS ONLY AND SHALL NOT BE USED FOR CONSTRUCTION.

2) THE CONTRACTOR SHALL NOTIFY DIG SAFE AT 1-888-DIG-SAFE (1-888-344-7233) AT LEAST 72 HOURS PRIOR TO COMMENCING ANY EXCAVATION ON PUBLIC OR PRIVATE PROPERTY.

3) UNDERGROUND UTILITY LOCATIONS ARE BASED UPON BEST AVAILABLE EVIDENCE AND ARE NOT FIELD VERIFIED. LOCATING AND PROTECTING ANY ABOVEGROUND OR UNDERGROUND UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND/OR THE OWNER. UTILITY CONFLICTS SHOULD BE REPORTED AT ONCE TO THE DESIGN ENGINEER.

4) CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE "NEW HAMPSHIRE STORMWATER MANUAL, VOLUME 3, EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION, (NHDES, DECEMBER 2008).

BRICK MARKET
60 PENHALLOW STREET
PORTSMOUTH, N.H.

NO.	DESCRIPTION	DATE
	REVISIONS	
0	ISSUED FOR APPROVAL	11/18/19

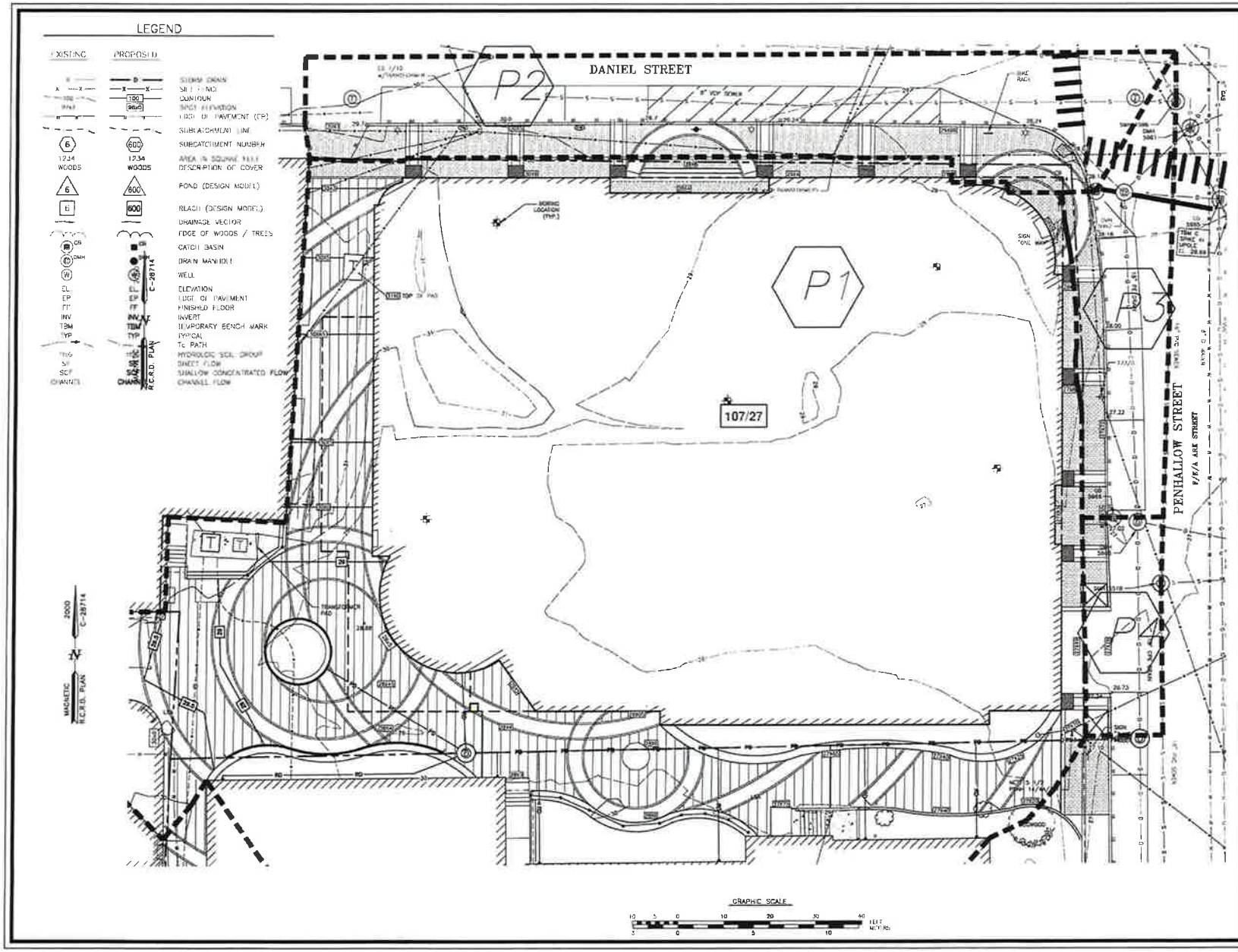
STATE OF NEW HAMPSHIRE - JOSEPH L. MULLEDY No. 11502 - PROFESSIONAL ENGINEER - LICENSED

11/18/19

SCALE: 1" = 10'

PLAN OF EXISTING SUBCATCHMENTS

W1



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1) THIS PLAN IS INTENDED FOR RUNOFF ANALYSIS ONLY AND SHALL NOT BE USED FOR CONSTRUCTION.

2) THE CONTRACTOR SHALL NOTIFY DIG SAFE AT 1 888 DIG SAFE (1 888 344-7233) AT LEAST 72 HOURS PRIOR TO COMMENCING ANY EXCAVATION ON PUBLIC OR PRIVATE PROPERTY.

3) UNDERGROUND UTILITY LOCATIONS ARE BASED UPON BEST AVAILABLE EVIDENCE AND ARE NOT FIELD VERIFIED. LOCATING AND PROTECTING ANY ABOVEGROUND OR UNDERGROUND UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND/OR THE OWNER. UTILITY CONFLICTS SHOULD BE REPORTED AT ONCE TO THE DESIGN ENGINEER.

4) CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE "NEW HAMPSHIRE STORMWATER MANUAL, VOLUME 3, EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION. (NHDES DECEMBER 2008).

BRICK MARKET
60 PENHALLOW STREET
PORTSMOUTH, N.H.

NO.	DESCRIPTION	DATE
0	ISSUED FOR APPROVAL	11/18/19

REVISIONS

STATE OF NEW HAMPSHIRE – JOSEPH L. MULLOY No. 15902 – PROFESSIONAL ENGINEER

SCALE: 1" = 10'

PLAN OF PROPOSED SUBCATCHMENTS

W2

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
1	PROJECT REFERENCE	DRAWING TYPE	ROOM OR AREA	MOUNTING	FUNCTION	MANUFACTURER	CATALOG NUMBER	SOURCE	LENGTH, DIAMETER OR BEAM SPREAD	LUMENS/ FT.	TOTAL LUMENS	WATTS/ FT	TOTAL WATTS	COLOR TEMP	CRI	VOLTS	DIMMING PROTOCOL	LOW END DIM	WEIGHT (IN LBS)	COLOR	PROVIDE FACTORY GENERATED SHOP DRAWINGS & BILL OF MATERIAL	QTY	EXTERIOR CIRCUIT GROUP	NOTES	REVIEWER
2	3 PLEASANT STREET	JNC-1	NORTH EXTERIOR-3 PLEASANT	CANTENARY	PATIO DINING LIGHTING	HK LIGHTING GROUP	(1) CZXL-16i-CAT-GSL-10 WATT-30-57-ABK 120--1/2" CANTENARY CABLE-LIQUID TIGHT CORD GRIP IN BLACK-18/3 SJTN 12'	LED	10.28"	N/A	876	N/A	10	3,000		120	MLV	0%		ANODIZED BLACK	NO	1	DINING NORTH		JSA-PETERSEN-JMLD
3	3 PLEASANT STREET	JNC-2	NORTH EXTERIOR-3 PLEASANT	CANTENARY	PATIO DINING LIGHTING	HK LIGHTING GROUP	(1) CZXL-16i-CAT-GSL-10 WATT-30-57-ABK 120--1/2" CANTENARY CABLE-LIQUID TIGHT CORD GRIP IN BLACK-18/3 SJTN 12'	LED	10.28"	N/A	876	N/A	10	3,000		120	MLV	0%		ANODIZED BLACK	NO	1	DINING NORTH		JSA-PETERSEN-JMLD
4	3 PLEASANT STREET	JNC-3	NORTH EXTERIOR-3 PLEASANT	CANTENARY	PATIO DINING LIGHTING	HK LIGHTING GROUP	(1) CZXL-16i-CAT-GSL-10 WATT-30-57-ABK 120--1/2" CANTENARY CABLE-LIQUID TIGHT CORD GRIP IN BLACK-18/3 SJTN 12'	LED	10.28"	N/A	876	N/A	10	3,000		120	MLV	0%		ANODIZED BLACK	NO	1	DINING NORTH		JSA-PETERSEN-JMLD
5	3 PLEASANT STREET	JNC-4	NORTH EXTERIOR-3 PLEASANT	CANTENARY	PATIO DINING LIGHTING	HK LIGHTING GROUP	(1) CZXL-16i-CAT-GSL-10 WATT-30-57-ABK 120--1/2" CANTENARY CABLE-LIQUID TIGHT CORD GRIP IN BLACK-18/3 SJTN 12'	LED	10.28"	N/A	876	N/A	10	3,000		120	MLV	0%		ANODIZED BLACK	NO	1	DINING NORTH		JSA-PETERSEN-JMLD
6	3 PLEASANT STREET	JNC-5	NORTH EXTERIOR-3 PLEASANT	CANTENARY	PATIO DINING LIGHTING	HK LIGHTING GROUP	(1) CZXL-16i-CAT-GSL-10 WATT-30-57-ABK 120--1/2" CANTENARY CABLE-LIQUID TIGHT CORD GRIP IN BLACK-18/3 SJTN 12'	LED	10.28"	N/A	876	N/A	10	3,000		120	MLV	0%		ANODIZED BLACK	NO	1	DINING NORTH		JSA-PETERSEN-JMLD
7	3 PLEASANT STREET	JNC-6	NORTH EXTERIOR-3 PLEASANT	CANTENARY	PATIO DINING LIGHTING	HK LIGHTING GROUP	(1) CZXL-16i-CAT-GSL-10 WATT-30-57-ABK 120--1/2" CANTENARY CABLE-LIQUID TIGHT CORD GRIP IN BLACK-18/3 SJTN 12'	LED	10.28"	N/A	876	N/A	10	3,000		120	MLV	0%		ANODIZED BLACK	NO	1	DINING NORTH		JSA-PETERSEN-JMLD
8	60 PENHALLOW	JNC-7	NORTH EXTERIOR-3 PLEASANT	CANTENARY	PATIO DINING LIGHTING	HK LIGHTING GROUP	(1) CZXL-16i-CAT-GSL-10 WATT-30-57-ABK 120--1/2" CANTENARY CABLE-LIQUID TIGHT CORD GRIP IN BLACK-18/3 SJTN 12'	LED	10.28"	N/A	876	N/A	10	3,000		120	MLV	0%		ANODIZED BLACK	NO	1	DINING NORTH		JSA-PETERSEN-JMLD
9	60 PENHALLOW	JNC-8	AROUND FOUNTAIN EXTERIOR	CANTENARY	RING CANT	HK LIGHTING GROUP	(1) CZXL-16i-CAT-GSL-10 WATT-30-57-ABK 120--1/2" CANTENARY CABLE-LIQUID TIGHT CORD GRIP IN BLACK-18/3 SJTN 12'	LED	10.28"	N/A	2,628	N/A	30	3,000		120	MLV	0%		ANODIZED BLACK	NO	1	RING CANT		JSA-PETERSEN-JMLD
10	60 PENHALLOW	JNC-9	AROUND FOUNTAIN EXTERIOR	CANTENARY	RING CANT	HK LIGHTING GROUP	(1) CZXL-16i-CAT-GSL-10 WATT-30-57-ABK 120--1/2" CANTENARY CABLE-LIQUID TIGHT CORD GRIP IN BLACK-18/3 SJTN 12'	LED	10.28"	N/A	2,628	N/A	30	3,000		120	MLV	0%		ANODIZED BLACK	NO	1	RING CANT		JSA-PETERSEN-JMLD
11	60 PENHALLOW	JNC-10	SOUTH EXTERIOR - 60 PEN	CANTENARY	SOUTH CANT	HK LIGHTING GROUP	(1) CZXL-16i-CAT-GSL-10 WATT-30-57-ABK 120--1/2" CANTENARY CABLE-LIQUID TIGHT CORD GRIP IN BLACK-18/3 SJTN 12'	LED	10.28"	N/A	876	N/A	10	3,000		120	MLV	0%		ANODIZED BLACK	NO	1	SOUTH CANT		JSA-PETERSEN-JMLD
12	60 PENHALLOW	JNC-11	SOUTH EXTERIOR - 60 PEN	CANTENARY	SOUTH CANT	HK LIGHTING GROUP	(1) CZXL-16i-CAT-GSL-10 WATT-30-57-ABK 120--1/2" CANTENARY CABLE-LIQUID TIGHT CORD GRIP IN BLACK-18/3 SJTN 11'	LED	10.28"	N/A	876	N/A	10	3,000		120	MLV	0%		ANODIZED BLACK	NO	1	SOUTH CANT		JSA-PETERSEN-JMLD
13	60 PENHALLOW	JNC-12	SOUTH EXTERIOR - 60 PEN	CANTENARY	SOUTH CANT	HK LIGHTING GROUP	(1) CZXL-16i-CAT-GSL-10 WATT-30-57-ABK 120--1/2" CANTENARY CABLE-LIQUID TIGHT CORD GRIP IN BLACK-18/3 SJTN 19'	LED	10.28"	N/A	876	N/A	10	3,000		120	MLV	0%		ANODIZED BLACK	NO	1	SOUTH CANT		JSA-PETERSEN-JMLD
14	60 PENHALLOW	JNC-13	SOUTH EXTERIOR - 60 PEN	CANTENARY	SOUTH CANT	HK LIGHTING GROUP	(1) CZXL-16i-CAT-GSL-10 WATT-30-57-ABK 120--1/2" CANTENARY CABLE-LIQUID TIGHT CORD GRIP IN BLACK-18/3 SJTN 17'	LED	10.28"	N/A	876	N/A	10	3,000		120	MLV	0%		ANODIZED BLACK	NO	1	SOUTH CANT		JSA-PETERSEN-JMLD
15	60 PENHALLOW	JNC-14	SOUTH EXTERIOR - 60 PEN	CANTENARY	SOUTH CANT	HK LIGHTING GROUP	(1) CZXL-16i-CAT-GSL-10 WATT-30-57-ABK 120--1/2" CANTENARY CABLE-LIQUID TIGHT CORD GRIP IN BLACK-18/3 SJTN 19'	LED	10.28"	N/A	876	N/A	10	3,000		120	MLV	0%		ANODIZED BLACK	NO	1	SOUTH CANT		JSA-PETERSEN-JMLD
16	60 PENHALLOW	JNC-15	WEST EXTERIOR - 60 PEN	CANTENARY	ALLEY NORTH	HK LIGHTING GROUP	(1) CZXL-16i-CAT-GSL-10 WATT-30-57-ABK 120--1/2" CANTENARY CABLE-LIQUID TIGHT CORD GRIP IN BLACK-18/3 SJTN 19'	LED	10.28"	N/A	876	N/A	10	3,000		120	MLV	0%		ANODIZED BLACK	NO	1	ALLEY NORTH		JSA-PETERSEN-JMLD
17	60 PENHALLOW	JNC-16	WEST EXTERIOR - 60 PEN	CANTENARY	ALLEY NORTH	HK LIGHTING GROUP	(1) CZXL-16i-CAT-GSL-10 WATT-30-57-ABK 120--1/2" CANTENARY CABLE-LIQUID TIGHT CORD GRIP IN BLACK-18/3 SJTN 19'	LED	10.28"	N/A	876	N/A	10	3,000		120	MLV	0%		ANODIZED BLACK	NO	1	ALLEY NORTH		JSA-PETERSEN-JMLD

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
1	PROJECT REFERENCE	DRAWING TYPE	ROOM OR AREA	MOUNTING	FUNCTION	MANUFACTURER	CATALOG NUMBER	SOURCE	LENGTH, DIAMETER OR BEAM SPREAD	LUMENS/ FT.	TOTAL LUMENS	WATTS/ FT	TOTAL WATTS	COLOR TEMP	CRI	VOLTS	DIMMING PROTOCOL	LOW END DIM	WEIGHT (IN LBS)	COLOR	PROVIDE FACTORY GENERATED SHOP DRAWINGS & BILL OF MATERIAL	QTY	EXTERIOR CIRCUIT GROUP	NOTES	REVIEWER
18	60 PENHALLOW	JNC-17	WEST EXTERIOR - 60 PEN	CANTENARY	ALLEY NORTH	HK LIGHTING GROUP	(1) CZXL-16i-CAT-GSL-10 WATT-30-57-ABK 120--1/2" CANTENARY CABLE-LIQUID TIGHT CORD GRIP IN BLACK-18/3 SJTN 19'	LED	10.28"	N/A	876	N/A	10	3,000		120	MLV	0%		ANODIZED BLACK	NO	1	ALLEY NORTH		JSA-PETERSEN-JMLD
19	3 PLEASANT STREET	JNC-18	EAST EXTERIOR - 3 PLEASANT	CANTENARY	ALLEY SOUTH	HK LIGHTING GROUP	(1) CZXL-16i-CAT-GSL-10 WATT-30-57-ABK 120--1/2" CANTENARY CABLE-LIQUID TIGHT CORD GRIP IN BLACK-18/3 SJTN 5'	LED	10.28"	N/A	876	N/A	10	3,000		120	MLV	0%		ANODIZED BLACK	NO	1	ALLEY SOUTH		JSA-PETERSEN-JMLD
20	3 PLEASANT STREET	JNC-19	EAST EXTERIOR - 3 PLEASANT	CANTENARY	ALLEY SOUTH	HK LIGHTING GROUP	(1) CZXL-16i-CAT-GSL-10 WATT-30-57-ABK 120--1/2" CANTENARY CABLE-LIQUID TIGHT CORD GRIP IN BLACK-18/3 SJTN 5'	LED	10.28"	N/A	876	N/A	10	3,000		120	MLV	0%		ANODIZED BLACK	NO	1	ALLEY SOUTH		JSA-PETERSEN-JMLD
21	3 PLEASANT STREET	JNC-20	EAST EXTERIOR - 3 PLEASANT	CANTENARY	ALLEY SOUTH	HK LIGHTING GROUP	(2) CZXL-16i-CAT-GSL-10 WATT-30-57-ABK 120--1/2" CANTENARY CABLE-LIQUID TIGHT CORD GRIP IN BLACK-18/3 SJTN 15'	LED	10.28"	N/A	876	N/A	20	3,000		120	MLV	0%		ANODIZED BLACK	NO	1	ALLEY SOUTH		JSA-PETERSEN-JMLD
22	3 PLEASANT STREET	JNC-21	SOUTH EXTERIOR - 3 PLEASANT	CANTENARY	SOUTH DINING	HK LIGHTING GROUP	(1) CZXL-16i-CAT-GSL-10 WATT-30-57-ABK 120--1/2" CANTENARY CABLE-LIQUID TIGHT CORD GRIP IN BLACK-18/3 SJTN 10'	LED	10.28"	N/A	876	N/A	10	3,000		120	MLV	0%		ANODIZED BLACK	NO	1	SOUTH DINING		JSA-PETERSEN-JMLD
23	3 PLEASANT STREET	JNC-22	SOUTH EXTERIOR - 3 PLEASANT	CANTENARY	SOUTH DINING	HK LIGHTING GROUP	(1) CZXL-16i-CAT-GSL-10 WATT-30-57-ABK 120--1/2" CANTENARY CABLE-LIQUID TIGHT CORD GRIP IN BLACK-18/3 SJTN 12'	LED	10.28"	N/A	876	N/A	10	3,000		120	MLV	0%		ANODIZED BLACK	NO	1	SOUTH DINING		JSA-PETERSEN-JMLD
24	3 PLEASANT STREET	JNC-23	SOUTH EXTERIOR - 3 PLEASANT	CANTENARY	SOUTH DINING	HK LIGHTING GROUP	(1) CZXL-16i-CAT-GSL-10 WATT-30-57-ABK 120--1/2" CANTENARY CABLE-LIQUID TIGHT CORD GRIP IN BLACK-18/3 SJTN 13'	LED	10.28"	N/A	876	N/A	10	3,000		120	MLV	0%		ANODIZED BLACK	NO	1	SOUTH DINING		JSA-PETERSEN-JMLD
25	3 PLEASANT STREET	JNC-24	SOUTH EXTERIOR - 3 PLEASANT	CANTENARY	SOUTH DINING	HK LIGHTING GROUP	(1) CZXL-16i-CAT-GSL-10 WATT-30-57-ABK 120--1/2" CANTENARY CABLE-LIQUID TIGHT CORD GRIP IN BLACK-18/3 SJTN 14'	LED	10.28"	N/A	876	N/A	10	3,000		120	MLV	0%		ANODIZED BLACK	NO	1	SOUTH DINING		JSA-PETERSEN-JMLD
26	60 PENHALLOW	JOW	VARIOUS EGRESS DOORS	WALL	EGRESS-EMERGENCY	SIGNTEX LIGHTING	MUE-AC-20-X-W-TBD	LED					20			120					NO	SEE DRAWINGS			JSA-PETERSEN-JMLD
27	3 PLEASANT STREET	JPS-228	EXTERIOR CORNICE NORTH	SURFACE	UPLIGHT ON CORNICE MOLDING	Q-TRAN	SW24/1.5-WET-30-BW-CLS-228"-WIDE-BK-PL-DF-S1-228"	LED	19	172	3268	1.5	28.5	3,000	97	24VDC	MLV	0%		BLACK	NO	19	CORNICE		JSA-PETERSEN-JMLD
28	3 PLEASANT STREET	JPS-240	EXTERIOR CORNICE NORTH	SURFACE	UPLIGHT ON CORNICE MOLDING	Q-TRAN	SW24/1.5-WET-30-BW-CLS-240"-WIDE-BK-PL-DF-S1-240"	LED	20	172	3440	1.5	30	3,000	97	24VDC	MLV	0%		BLACK	NO	19	CORNICE		JSA-PETERSEN-JMLD
29	3 PLEASANT STREET	JPS-258	EXTERIOR CORNICE NORTH	SURFACE	UPLIGHT ON CORNICE MOLDING	Q-TRAN	SW24/1.5-WET-30-BW-CLS-258"-WIDE-BK-PL-DF-S1-258"	LED	21.5	172	3698	1.5	32.25	3,000	97	24VDC	MLV	0%		BLACK	NO	19	CORNICE		JSA-PETERSEN-JMLD
30	3 PLEASANT STREET	JPS-258	EXTERIOR CORNICE NORTH	SURFACE	UPLIGHT ON CORNICE MOLDING	Q-TRAN	SW24/1.5-WET-30-BW-CLS-258"-WIDE-BK-PL-DF-S1-258"	LED	21.5	172	3698	1.5	32.25	3,000	97	24VDC	MLV	0%		BLACK	NO	19	CORNICE		JSA-PETERSEN-JMLD
31	3 PLEASANT STREET	JPS-TRA-1	TBD	SURFACE	POWER SUPPLY	Q-TRAN	QTM200-DC+CAP-120-24-2 X 4 CKS	LED	N/A	N/A	N/A	N/A	200	N/A	N/A	120/24	MLV	0%		STND	NO	1	CORNICE		JSA-PETERSEN-JMLD
32	3 PLEASANT STREET	JPS-228	EXTERIOR CORNICE SOUTH	SURFACE	UPLIGHT ON CORNICE MOLDING	Q-TRAN	SW24/1.5-WET-30-BW-CLS-228"-WIDE-BK-PL-DF-S1-228"	LED	19	172	3268	1.5	28.5	3,000	97	24VDC	MLV	0%		BLACK	NO	19	CORNICE		JSA-PETERSEN-JMLD
33	3 PLEASANT STREET	JPS-240	EXTERIOR CORNICE SOUTH	SURFACE	UPLIGHT ON CORNICE MOLDING	Q-TRAN	SW24/1.5-WET-30-BW-CLS-240"-WIDE-BK-PL-DF-S1-240"	LED	20	172	3440	1.5	30	3,000	97	24VDC	MLV	0%		BLACK	NO	19	CORNICE		JSA-PETERSEN-JMLD
34	3 PLEASANT STREET	JPS-258	EXTERIOR CORNICE SOUTH	SURFACE	UPLIGHT ON CORNICE MOLDING	Q-TRAN	SW24/1.5-WET-30-BW-CLS-258"-WIDE-BK-PL-DF-S1-258"	LED	21.5	172	3698	1.5	32.25	3,000	97	24VDC	MLV	0%		BLACK	NO	19	CORNICE		JSA-PETERSEN-JMLD
35	3 PLEASANT STREET	JPS-258	EXTERIOR CORNICE SOUTH	SURFACE	UPLIGHT ON CORNICE MOLDING	Q-TRAN	SW24/1.5-WET-30-BW-CLS-258"-WIDE-BK-PL-DF-S1-258"	LED	21.5	172	3698	1.5	32.25	3,000	97	24VDC	MLV	0%		BLACK	NO	19	CORNICE		JSA-PETERSEN-JMLD
36	3 PLEASANT STREET	JPS-TRA-2	TBD	SURFACE	POWER SUPPLY	Q-TRAN	QTM200-DC+CAP-120-24-2 X 4 CKS	LED	N/A	N/A	N/A	N/A	200	N/A	N/A	120/24	MLV	0%		STND	NO	1	CORNICE		JSA-PETERSEN-JMLD

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
1	PROJECT REFERENCE	DRAWING TYPE	ROOM OR AREA	MOUNTING	FUNCTION	MANUFACTURER	CATALOG NUMBER	SOURCE	LENGTH, DIAMETER OR BEAM SPREAD	LUMENS/ FT.	TOTAL LUMENS	WATTS/ FT	TOTAL WATTS	COLOR TEMP	CRI	VOLTS	DIMMING PROTOCOL	LOW END DIM	WEIGHT (IN LBS)	COLOR	PROVIDE FACTORY GENERATED SHOP DRAWINGS & BILL OF MATERIAL	QTY	EXTERIOR CIRCUIT GROUP	NOTES	REVIEWER
37	3 PLEASANT STREET	JPS-180	EXTERIOR CORNICE WEST	SURFACE	UPLIGHT ON CORNICE MOLDING	Q-TRAN	SW24/1.5-WET-30-BW-CLS-180°-WIDE-BK-PL-DF-S1-180°	LED	15	172	2580	1.5	22.5	3,000	97	24VDC	MLV	0%		BLACK	NO	18	CORNICE		JSA-PETERSEN-JMLD
38	3 PLEASANT STREET	JPS-180	EXTERIOR CORNICE WEST	SURFACE	UPLIGHT ON CORNICE MOLDING	Q-TRAN	SW24/1.5-WET-30-BW-CLS-180°-WIDE-BK-PL-DF-S1-180°	LED	15	172	2580	1.5	22.5	3,000	97	24VDC	MLV	0%		BLACK	NO	18	CORNICE		JSA-PETERSEN-JMLD
39	3 PLEASANT STREET	JPS-252	EXTERIOR CORNICE WEST	SURFACE	UPLIGHT ON CORNICE MOLDING	Q-TRAN	SW24/1.5-WET-30-BW-CLS-252°-WIDE-BK-PL-DF-S1-252°	LED	21	172	3612	1.5	31.5	3,000	97	24VDC	MLV	0%		BLACK	NO	18	CORNICE		JSA-PETERSEN-JMLD
40	3 PLEASANT STREET	JPS-TRA-3	TBD	SURFACE	POWER SUPPLY	Q-TRAN	QTM100-DC+CAP-120-24-2 X 4 CKS	LED	N/A	N/A	N/A	N/A	100	N/A	N/A	120/24	MLV	0%		STND	NO	1	CORNICE		JSA-PETERSEN-JMLD
41	3 PLEASANT STREET	JUS	NORTH EXTERIOR	SURFACE	WINDOW WELL LIGHTS	PRESCOLITE	LBSLEDA10L-30K-9-WH	LED	N/A	N/A	1,000	N/A	17	3,000	90	120	ELV	15%		WHITE	NO	6	WINDOW WELLS	MOUNT FOR UP-LIGHT	JSA-PETERSEN-JMLD
42	3 PLEASANT STREET	JUS	SOUTH EXTERIOR	SURFACE	WINDOW WELL LIGHTS	PRESCOLITE	LBSLEDA10L-30K-9-WH	LED	N/A	N/A	1,000	N/A	17	3,000	90	120	ELV	15%		WHITE	NO	6	WINDOW WELLS	MOUNT FOR UP-LIGHT	JSA-PETERSEN-JMLD
43	60 PENHALLOW	JAAS-33	EXTERIOR PILLAR	SURFACE	PILLAR WASH	Q-TRAN	SW24/4.0-WET-30-BW-BW-33"-TORQ-BK-PL-ENC/TL-S1-33"	LED	2.75	373	1025.75	4	11	3,000	90	24	MLV	0%		STND	PROVIDE CONTRACTOR SHOP DRAWING	1	PILLAR		JSA-PETERSEN-JMLD
44	60 PENHALLOW	JAAS-33	EXTERIOR PILLAR	SURFACE	PILLAR WASH	Q-TRAN	SW24/4.0-WET-30-BW-BW-33"-TORQ-BK-PL-ENC/TL-S1-33"	LED	2.75	373	1025.75	4	11	3,000	90	24	MLV	0%		STND	PROVIDE CONTRACTOR SHOP DRAWING	1	PILLAR		JSA-PETERSEN-JMLD
45	60 PENHALLOW	JAAS-42	EXTERIOR PILLAR	SURFACE	PILLAR WASH	Q-TRAN	SW24/4.0-WET-30-BW-BW-42"-TORQ-BK-PL-DF-S1-42"	LED	3.5	373	1305.5	4	14	3,000	90	24	MLV	0%		STND	PROVIDE CONTRACTOR SHOP DRAWING	1	PILLAR		JSA-PETERSEN-JMLD
46	60 PENHALLOW	JAAS-33	EXTERIOR PILLAR	SURFACE	PILLAR WASH	Q-TRAN	SW24/4.0-WET-30-BW-BW-33"-TORQ-BK-PL-ENC/TL-S1-33"	LED	2.75	373	1025.75	4	11	3,000	90	24	MLV	0%		STND	PROVIDE CONTRACTOR SHOP DRAWING	1	PILLAR		JSA-PETERSEN-JMLD
47	60 PENHALLOW	JAAS-33	EXTERIOR PILLAR	SURFACE	PILLAR WASH	Q-TRAN	SW24/4.0-WET-30-BW-BW-33"-TORQ-BK-PL-ENC/TL-S1-33"	LED	2.75	373	1025.75	4	11	3,000	90	24	MLV	0%		STND	PROVIDE CONTRACTOR SHOP DRAWING	1	PILLAR		JSA-PETERSEN-JMLD
48	60 PENHALLOW	JAAS-42	EXTERIOR PILLAR	SURFACE	PILLAR WASH	Q-TRAN	SW24/4.0-WET-30-BW-BW-42"-TORQ-BK-PL-DF-S1-42"	LED	3.5	373	1305.5	4	14	3,000	90	24	MLV	0%		STND	PROVIDE CONTRACTOR SHOP DRAWING	1	PILLAR		JSA-PETERSEN-JMLD
49	60 PENHALLOW	JAAS-33	EXTERIOR PILLAR	SURFACE	PILLAR WASH	Q-TRAN	SW24/4.0-WET-30-BW-BW-33"-TORQ-BK-PL-ENC/TL-S1-33"	LED	2.75	373	1025.75	4	11	3,000	90	24	MLV	0%		STND	PROVIDE CONTRACTOR SHOP DRAWING	1	PILLAR		JSA-PETERSEN-JMLD
50	60 PENHALLOW	JAAS-33	EXTERIOR PILLAR	SURFACE	PILLAR WASH	Q-TRAN	SW24/4.0-WET-30-BW-BW-33"-TORQ-BK-PL-ENC/TL-S1-33"	LED	2.75	373	1025.75	4	11	3,000	90	24	MLV	0%		STND	PROVIDE CONTRACTOR SHOP DRAWING	1	PILLAR		JSA-PETERSEN-JMLD
51	60 PENHALLOW	JAAS-42	EXTERIOR PILLAR	SURFACE	PILLAR WASH	Q-TRAN	SW24/4.0-WET-30-BW-BW-42"-TORQ-BK-PL-DF-S1-42"	LED	3.5	373	1305.5	4	14	3,000	90	24	MLV	0%		STND	PROVIDE CONTRACTOR SHOP DRAWING	1	PILLAR		JSA-PETERSEN-JMLD
52	60 PENHALLOW	JAAS-33	EXTERIOR PILLAR	SURFACE	PILLAR WASH	Q-TRAN	SW24/4.0-WET-30-BW-BW-33"-TORQ-BK-PL-ENC/TL-S1-33"	LED	2.75	373	1025.75	4	11	3,000	90	24	MLV	0%		STND	PROVIDE CONTRACTOR SHOP DRAWING	1	PILLAR		JSA-PETERSEN-JMLD
53	60 PENHALLOW	JAAS-33	EXTERIOR PILLAR	SURFACE	PILLAR WASH	Q-TRAN	SW24/4.0-WET-30-BW-BW-33"-TORQ-BK-PL-ENC/TL-S1-33"	LED	2.75	373	1025.75	4	11	3,000	90	24	MLV	0%		STND	PROVIDE CONTRACTOR SHOP DRAWING	1	PILLAR		JSA-PETERSEN-JMLD
54	60 PENHALLOW	JAAS-42	EXTERIOR PILLAR	SURFACE	PILLAR WASH	Q-TRAN	SW24/4.0-WET-30-BW-BW-42"-TORQ-BK-PL-DF-S1-42"	LED	3.5	373	1305.5	4	14	3,000	90	24	MLV	0%		STND	PROVIDE CONTRACTOR SHOP DRAWING	1	PILLAR		JSA-PETERSEN-JMLD
55	60 PENHALLOW	JAAS-33	EXTERIOR PILLAR	SURFACE	PILLAR WASH	Q-TRAN	SW24/4.0-WET-30-BW-BW-33"-TORQ-BK-PL-ENC/TL-S1-33"	LED	2.75	373	1025.75	4	11	3,000	90	24	MLV	0%		STND	PROVIDE CONTRACTOR SHOP DRAWING	1	PILLAR		JSA-PETERSEN-JMLD
56	60 PENHALLOW	JAAS-33	EXTERIOR PILLAR	SURFACE	PILLAR WASH	Q-TRAN	SW24/4.0-WET-30-BW-BW-33"-TORQ-BK-PL-ENC/TL-S1-33"	LED	2.75	373	1025.75	4	11	3,000	90	24	MLV	0%		STND	PROVIDE CONTRACTOR SHOP DRAWING	1	PILLAR		JSA-PETERSEN-JMLD
57	60 PENHALLOW	JAAS-42	EXTERIOR PILLAR	SURFACE	PILLAR WASH	Q-TRAN	SW24/4.0-WET-30-BW-BW-42"-TORQ-BK-PL-DF-S1-42"	LED	3.5	373	1305.5	4	14	3,000	90	24	MLV	0%		STND	PROVIDE CONTRACTOR SHOP DRAWING	1	PILLAR		JSA-PETERSEN-JMLD
58	60 PENHALLOW	JAAS-TRA-1	TBD	SURFACE	POWER SUPPLY	Q-TRAN	QTM200-DC+CAP-120-24-2 X 4 CKS	LED	N/A	373	N/A	N/A	200	N/A	N/A	120/24	MLV	0%		STND	NO	1	PILLAR		JSA-PETERSEN-JMLD

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
1	PROJECT REFERENCE	DRAWING TYPE	ROOM OR AREA	MOUNTING	FUNCTION	MANUFACTURER	CATALOG NUMBER	SOURCE	LENGTH, DIAMETER OR BEAM SPREAD	LUMENS/ FT.	TOTAL LUMENS	WATTS/ FT	TOTAL WATTS	COLOR TEMP	CRI	VOLTS	DIMMING PROTOCOL	LOW END DIM	WEIGHT (IN LBS)	COLOR	PROVIDE FACTORY GENERATED SHOP DRAWINGS & BILL OF MATERIAL	QTY	EXTERIOR CIRCUIT GROUP	NOTES	REVIEWER
59	60 PENHALLOW	JAAS-33	EXTERIOR PILLAR	SURFACE	PILLAR WASH	Q-TRAN	SW24/4.0-WET-30-BW-BW-33"-TORQ-BK-PL-ENC/TL-S1-33"	LED	2.75	373	1025.75	4	11	3,000	90	24	MLV	0%		STND	PROVIDE CONTRACTOR SHOP DRAWING	1	PILLAR		JSA-PETERSEN-JMLD
60	60 PENHALLOW	JAAS-33	EXTERIOR PILLAR	SURFACE	PILLAR WASH	Q-TRAN	SW24/4.0-WET-30-BW-BW-33"-TORQ-BK-PL-ENC/TL-S1-33"	LED	2.75	373	1025.75	4	11	3,000	90	24	MLV	0%		STND	PROVIDE CONTRACTOR SHOP DRAWING	1	PILLAR		JSA-PETERSEN-JMLD
61	60 PENHALLOW	JAAS-42	EXTERIOR PILLAR	SURFACE	PILLAR WASH	Q-TRAN	SW24/4.0-WET-30-BW-BW-42"-TORQ-BK-PL-ENC/TL-S1-42"	LED	3.5	373	1305.5	4	14	3,000	90	24	MLV	0%		STND	PROVIDE CONTRACTOR SHOP DRAWING	1	PILLAR		JSA-PETERSEN-JMLD
62	60 PENHALLOW	JAAS-33	EXTERIOR PILLAR	SURFACE	PILLAR WASH	Q-TRAN	SW24/4.0-WET-30-BW-BW-33"-TORQ-BK-PL-ENC/TL-S1-33"	LED	2.75	373	1025.75	4	11	3,000	90	24	MLV	0%		STND	PROVIDE CONTRACTOR SHOP DRAWING	1	PILLAR		JSA-PETERSEN-JMLD
63	60 PENHALLOW	JAAS-33	EXTERIOR PILLAR	SURFACE	PILLAR WASH	Q-TRAN	SW24/4.0-WET-30-BW-BW-33"-TORQ-BK-PL-ENC/TL-S1-33"	LED	2.75	373	1025.75	4	11	3,000	90	24	MLV	0%		STND	PROVIDE CONTRACTOR SHOP DRAWING	1	PILLAR		JSA-PETERSEN-JMLD
64	60 PENHALLOW	JAAS-42	EXTERIOR PILLAR	SURFACE	PILLAR WASH	Q-TRAN	SW24/4.0-WET-30-BW-BW-42"-TORQ-BK-PL-ENC/TL-S1-42"	LED	3.5	373	1305.5	4	14	3,000	90	24	MLV	0%		STND	PROVIDE CONTRACTOR SHOP DRAWING	1	PILLAR		JSA-PETERSEN-JMLD
65	60 PENHALLOW	JAAS-33	EXTERIOR PILLAR	SURFACE	PILLAR WASH	Q-TRAN	SW24/4.0-WET-30-BW-BW-33"-TORQ-BK-PL-ENC/TL-S1-33"	LED	2.75	373	1025.75	4	11	3,000	90	24	MLV	0%		STND	PROVIDE CONTRACTOR SHOP DRAWING	1	PILLAR		JSA-PETERSEN-JMLD
66	60 PENHALLOW	JAAS-33	EXTERIOR PILLAR	SURFACE	PILLAR WASH	Q-TRAN	SW24/4.0-WET-30-BW-BW-33"-TORQ-BK-PL-ENC/TL-S1-33"	LED	2.75	373	1025.75	4	11	3,000	90	24	MLV	0%		STND	PROVIDE CONTRACTOR SHOP DRAWING	1	PILLAR		JSA-PETERSEN-JMLD
67	60 PENHALLOW	JAAS-42	EXTERIOR PILLAR	SURFACE	PILLAR WASH	Q-TRAN	SW24/4.0-WET-30-BW-BW-42"-TORQ-BK-PL-ENC/TL-S1-42"	LED	3.5	373	1305.5	4	14	3,000	90	24	MLV	0%		STND	PROVIDE CONTRACTOR SHOP DRAWING	1	PILLAR		JSA-PETERSEN-JMLD
68	60 PENHALLOW	JAAS-33	EXTERIOR PILLAR	SURFACE	PILLAR WASH	Q-TRAN	SW24/4.0-WET-30-BW-BW-33"-TORQ-BK-PL-ENC/TL-S1-33"	LED	2.75	373	1025.75	4	11	3,000	90	24	MLV	0%		STND	PROVIDE CONTRACTOR SHOP DRAWING	1	PILLAR		JSA-PETERSEN-JMLD
69	60 PENHALLOW	JAAS-33	EXTERIOR PILLAR	SURFACE	PILLAR WASH	Q-TRAN	SW24/4.0-WET-30-BW-BW-33"-TORQ-BK-PL-ENC/TL-S1-33"	LED	2.75	373	1025.75	4	11	3,000	90	24	MLV	0%		STND	PROVIDE CONTRACTOR SHOP DRAWING	1	PILLAR		JSA-PETERSEN-JMLD
70	60 PENHALLOW	JAAS-42	EXTERIOR PILLAR	SURFACE	PILLAR WASH	Q-TRAN	SW24/4.0-WET-30-BW-BW-42"-TORQ-BK-PL-ENC/TL-S1-42"	LED	3.5	373	1305.5	4	14	3,000	90	24	MLV	0%		STND	PROVIDE CONTRACTOR SHOP DRAWING	1	PILLAR		JSA-PETERSEN-JMLD
71	60 PENHALLOW	JAAS-33	EXTERIOR PILLAR	SURFACE	PILLAR WASH	Q-TRAN	SW24/4.0-WET-30-BW-BW-33"-TORQ-BK-PL-ENC/TL-S1-33"	LED	2.75	373	1025.75	4	11	3,000	90	24	MLV	0%		STND	PROVIDE CONTRACTOR SHOP DRAWING	1	PILLAR		JSA-PETERSEN-JMLD
72	60 PENHALLOW	JAAS-33	EXTERIOR PILLAR	SURFACE	PILLAR WASH	Q-TRAN	SW24/4.0-WET-30-BW-BW-33"-TORQ-BK-PL-ENC/TL-S1-33"	LED	2.75	373	1025.75	4	11	3,000	90	24	MLV	0%		STND	PROVIDE CONTRACTOR SHOP DRAWING	1	PILLAR		JSA-PETERSEN-JMLD
73	60 PENHALLOW	JAAS-42	EXTERIOR PILLAR	SURFACE	PILLAR WASH	Q-TRAN	SW24/4.0-WET-30-BW-BW-42"-TORQ-BK-PL-ENC/TL-S1-42"	LED	3.5	373	1305.5	4	14	3,000	90	24	MLV	0%		STND	PROVIDE CONTRACTOR SHOP DRAWING	1	PILLAR		JSA-PETERSEN-JMLD
74	60 PENHALLOW	JAAS-TRA-2	TBD	SURFACE	POWER SUPPLY	Q-TRAN	QTM200-DC+CAP-120-24-2 X 4 CKS	LED	N/A	N/A	N/A	N/A	200	N/A	N/A	120/24	MLV	0%		STND	NO	1	PILLAR		JSA-PETERSEN-JMLD
75	60 PENHALLOW	JBBS-150	SOUTH OF 60-NORTH WALL	SURFACE UNDER SEAT	WALL-WASH	Q-TRAN	KUR-SW-WSC-WET-30-S0-ENC-TL-S5/6-BW-N/A-150	LED	12.5	118	1475	1.5	18.75	3,000	90	24	MLV	0%		STND	PROVIDE CONTRACTOR SHOP DRAWING	1	BENCH	SUPPLY NEUTRAL WIRE	JSA-PETERSEN-JMLD
76	60 PENHALLOW	JBBS-150	SOUTH OF 60-NORTH WALL	SURFACE UNDER SEAT	WALL-WASH	Q-TRAN	KUR-SW-WSC-WET-30-S0-ENC-TL-S5/6-BW-N/A-150	LED	12.5	118	1475	1.5	18.75	3,000	90	24	MLV	0%		STND	PROVIDE CONTRACTOR SHOP DRAWING	1	BENCH	SUPPLY NEUTRAL WIRE	JSA-PETERSEN-JMLD
77	60 PENHALLOW	JBBS-170	SOUTH OF 60-NORTH WALL	SURFACE UNDER SEAT	WALL-WASH	Q-TRAN	KUR-SW-WSC-WET-30-S0-ENC-TL-S2-BW-N/A-170	LED	14.16	118	1670.88	1.5	21.24	3,000	90	24	MLV	0%		STND	PROVIDE CONTRACTOR SHOP DRAWING	1	BENCH	SUPPLY NEUTRAL WIRE	JSA-PETERSEN-JMLD
78	60 PENHALLOW	JBBS-180	SOUTH OF 60-NORTH WALL	SURFACE UNDER SEAT	WALL-WASH	Q-TRAN	KUR-SW-WSC-WET-30-S0-ENC-TL-S2-BW-180	LED	15	118	1770	1.5	22.5	3,000	90	24	MLV	0%		STND	PROVIDE CONTRACTOR SHOP DRAWING	2	BENCH	SUPPLY NEUTRAL WIRE	JSA-PETERSEN-JMLD
79	60 PENHALLOW	JBBS-180	SOUTH OF 60-NORTH WALL	SURFACE UNDER SEAT	WALL-WASH	Q-TRAN	KUR-SW-WSC-WET-30-S0-ENC-TL-S2-BW-180	LED	15	118	1770	1.5	22.5	3,000	90	24	MLV	0%		STND	PROVIDE CONTRACTOR SHOP DRAWING	2	BENCH	SUPPLY NEUTRAL WIRE	JSA-PETERSEN-JMLD
80	60 PENHALLOW	JBBS-180	SOUTH OF 60-NORTH WALL	SURFACE UNDER SEAT	WALL-WASH	Q-TRAN	KUR-SW-WSC-WET-30-S0-ENC-TL-S2-BW-180	LED	15	118	1770	1.5	22.5	3,000	90	24	MLV	0%		STND	PROVIDE CONTRACTOR SHOP DRAWING	2	BENCH	SUPPLY NEUTRAL WIRE	JSA-PETERSEN-JMLD

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
1	PROJECT REFERENCE	DRAWING TYPE	ROOM OR AREA	MOUNTING	FUNCTION	MANUFACTURER	CATALOG NUMBER	SOURCE	LENGTH, DIAMETER OR BEAM SPREAD	LUMENS/ FT.	TOTAL LUMENS	WATTS/ FT	TOTAL WATTS	COLOR TEMP	CRI	VOLTS	DIMMING PROTOCOL	LOW END DIM	WEIGHT (IN LBS)	COLOR	PROVIDE FACTORY GENERATED SHOP DRAWINGS & BILL OF MATERIAL	QTY	EXTERIOR CIRCUIT GROUP	NOTES	REVIEWER
81	60 PENHALLOW	JBBS-TRA-1	SOUTH OF 60-NORTH WALL	WALL EXTERIOR	POWER SUPPLY	Q-TRAN	QTM200-DC+CAP-120-24-2 X 4 CKS	LED	N/A	N/A	N/A	N/A	200	N/A	N/A	120/24	MLV	0%		STND	NO		BENCH		JSA-PETERSEN-JMLD
82	60 PENHALLOW	JBBS-173	SOUTH OF 60-NORTH WALL	SURFACE UNDER SEAT	WALL-WASH	Q-TRAN	KUR-SW-WSC-WET-30-S0-ENC-TL-S2-BW-N/A-173	LED	14.41	118	1700.38	1.5	21.615	3,000	90	24	MLV	0%		STND	PROVIDE CONTRACTOR SHOP DRAWING	1	BENCH	SUPPLY NEUTRAL WIRE	JSA-PETERSEN-JMLD
83	60 PENHALLOW	JBBS-173	SOUTH OF 60-NORTH WALL	SURFACE UNDER SEAT	WALL-WASH	Q-TRAN	KUR-SW-WSC-WET-30-S0-ENC-TL-S5-BW-N/A-173	LED	14.41	118	1700.38	1.5	21.615	3,000	90	24	MLV	0%		STND	PROVIDE CONTRACTOR SHOP DRAWING	1	BENCH	SUPPLY NEUTRAL WIRE	JSA-PETERSEN-JMLD
84	60 PENHALLOW	JBBS-173	SOUTH OF 60-NORTH WALL	SURFACE UNDER SEAT	WALL-WASH	Q-TRAN	KUR-SW-WSC-WET-30-S0-ENC-TL-S6-BW-N/A-173	LED	14.41	118	1700.38	1.5	21.615	3,000	90	24	MLV	0%		STND	PROVIDE CONTRACTOR SHOP DRAWING	1	BENCH	SUPPLY NEUTRAL WIRE	JSA-PETERSEN-JMLD
85	60 PENHALLOW	JBBS-173	SOUTH OF 60-NORTH WALL	SURFACE UNDER SEAT	WALL-WASH	Q-TRAN	KUR-SW-WSC-WET-30-S0-ENC-TL-S2-BW-N/A-173	LED	14.41	118	1700.38	1.5	21.615	3,000	90	24	MLV	0%		STND	PROVIDE CONTRACTOR SHOP DRAWING	1	BENCH	SUPPLY NEUTRAL WIRE	JSA-PETERSEN-JMLD
86	60 PENHALLOW	JBBS-TRA-2	SOUTH OF 60-NORTH WALL	WALL EXTERIOR	POWER SUPPLY	Q-TRAN	QTM60-DC+CAP-120-24-2 X 4 CKS	LED	N/A	N/A	N/A	N/A	60	N/A	N/A	120/24	MLV	0%		STND	NO	1	BENCH		JSA-PETERSEN-JMLD
87	60 PENHALLOW	JBBS-123R	SOUTH OF 60-NORTH WALL	SURFACE UNDER SEAT	WALL-WASH	Q-TRAN	KUR-SW-WSC-WET-30-S0-ENC-TL-S5-BW-N/A-123	LED	10.25	118	1209.5	1.5	15.375	3,000	90	24	MLV	0%		STND	PROVIDE CONTRACTOR SHOP DRAWING	1	PODIUM	SUPPLY NEUTRAL WIRE	JSA-PETERSEN-JMLD
88	60 PENHALLOW	JBBS-123L	SOUTH OF 60-NORTH WALL	SURFACE UNDER SEAT	WALL-WASH	Q-TRAN	KUR-SW-WSC-WET-30-S0-ENC-TL-S6-BW-N/A-123	LED	10.25	118	1209.5	1.5	15.375	3,000	90	24	MLV	0%		STND	PROVIDE CONTRACTOR SHOP DRAWING	1	PODIUM	SUPPLY NEUTRAL WIRE	JSA-PETERSEN-JMLD
89	60 PENHALLOW	JBBS-TRA-3	SOUTH OF 60-NORTH WALL	WALL EXTERIOR	POWER SUPPLY	Q-TRAN	QTM60-DC+CAP-120-24-2 X 4 CKS	LED	N/A	N/A	N/A	N/A	60	N/A	N/A	120/24	MLV	0%		STND	NO	1	PODIUM		
90	60 PENHALLOW	JCCS-RUN A	EXTERIOR	VERTICAL SURFACE	VERTICAL COLOR CHANGE	Q-TRAN	RGBW24/6.0-WET-RGBW-30-BW-N/A-170.75-WIDE-BK-PL-DF-S1-170.75	LED	14.22	292	4152.24	6	85.32	3,000	N/A	24	DMX	0%		BLACK	YES	1	RED, GREEN, BLUE, WHITE	LUMENS VARIABLE	JSA-PETERSEN-JMLD
91	60 PENHALLOW	JCCS-RUN A	EXTERIOR	VERTICAL SURFACE	VERTICAL COLOR CHANGE	Q-TRAN	RGBW24/6.0-WET-RGBW-30-BW-N/A-170.75-WIDE-BK-PL-DF-S1-170.75	LED	14.22	292	4152.24	6	85.32	3,000	N/A	24	DMX	0%		BLACK	YES	1	RED, GREEN, BLUE, WHITE	LUMENS VARIABLE	JSA-PETERSEN-JMLD
92	60 PENHALLOW	JCCS-TRA-1	TBD	SURFACE	POWER SUPPLY	Q-TRAN	QTM-eLED-DMX	N/A	N/A	N/A	N/A	N/A	200	N/A	N/A	120/24	DMX	0%		STND	YES	1	RED, GREEN, BLUE, WHITE		JSA-PETERSEN-JMLD
93	60 PENHALLOW	JCCS-RUN B	EXTERIOR	VERTICAL SURFACE	VERTICAL COLOR CHANGE	Q-TRAN	RGBW24/6.0-WET-RGBW-30-BW-N/A-185.04-WIDE-BK-PL-DF-S1-185.04	LED	15.42	292	4502.64	6	92.52	3,000	N/A	24	DMX	0%		BLACK	YES	1	RED, GREEN, BLUE, WHITE	LUMENS VARIABLE	JSA-PETERSEN-JMLD
94	60 PENHALLOW	JCCS-RUN B	EXTERIOR	VERTICAL SURFACE	VERTICAL COLOR CHANGE	Q-TRAN	RGBW24/6.0-WET-RGBW-30-BW-N/A-185.04-WIDE-BK-PL-DF-S1-185.04	LED	15.42	292	4502.64	6	92.52	3,000	N/A	24	DMX	0%		BLACK	YES	1	RED, GREEN, BLUE, WHITE	LUMENS VARIABLE	JSA-PETERSEN-JMLD
95	60 PENHALLOW	JCCS-TRA-2	TBD	SURFACE	POWER SUPPLY	Q-TRAN	QTM-eLED-DMX	N/A	N/A	N/A	N/A	N/A	200	N/A	N/A	120/24	DMX	0%		STND	YES	1	RED, GREEN, BLUE, WHITE		JSA-PETERSEN-JMLD
96	60 PENHALLOW	JCCS-RUN A	EXTERIOR	VERTICAL SURFACE	VERTICAL COLOR CHANGE	Q-TRAN	RGBW24/6.0-WET-RGBW-30-BW-N/A-170.75-WIDE-BK-PL-DF-S1-170.75	LED	14.22	292	4152.24	6	85.32	3,000	N/A	24	DMX	0%		BLACK	YES	1	RED, GREEN, BLUE, WHITE	LUMENS VARIABLE	JSA-PETERSEN-JMLD
97	60 PENHALLOW	JCCS-RUN A	EXTERIOR	VERTICAL SURFACE	VERTICAL COLOR CHANGE	Q-TRAN	RGBW24/6.0-WET-RGBW-30-BW-N/A-170.75-WIDE-BK-PL-DF-S1-170.75	LED	14.22	292	4152.24	6	85.32	3,000	N/A	24	DMX	0%		BLACK	YES	1	RED, GREEN, BLUE, WHITE	LUMENS VARIABLE	JSA-PETERSEN-JMLD
98	60 PENHALLOW	JCCS-TRA-3	TBD	SURFACE	POWER SUPPLY	Q-TRAN	QTM-eLED-DMX	N/A	N/A	N/A	N/A	N/A	200	N/A	N/A	120/24	DMX	0%		STND	YES	1	RED, GREEN, BLUE, WHITE		JSA-PETERSEN-JMLD
99	60 PENHALLOW	JCCS-RUN A	EXTERIOR	VERTICAL SURFACE	VERTICAL COLOR CHANGE	Q-TRAN	RGBW24/6.0-WET-RGBW-30-BW-N/A-170.75-WIDE-BK-PL-DF-S1-170.75	LED	14.22	292	4152.24	6	85.32	3,000	N/A	24	DMX	0%		BLACK	YES	1	RED, GREEN, BLUE, WHITE	LUMENS VARIABLE	JSA-PETERSEN-JMLD
100	60 PENHALLOW	JCCS-RUN A	EXTERIOR	VERTICAL SURFACE	VERTICAL COLOR CHANGE	Q-TRAN	RGBW24/6.0-WET-RGBW-30-BW-N/A-170.75-WIDE-BK-PL-DF-S1-170.75	LED	14.22	292	4152.24	6	85.32	3,000	N/A	24	DMX	0%		BLACK	YES	1	RED, GREEN, BLUE, WHITE	LUMENS VARIABLE	JSA-PETERSEN-JMLD
101	60 PENHALLOW	JCCS-TRA-4	TBD	SURFACE	POWER SUPPLY	Q-TRAN	QTM-eLED-DMX	N/A	N/A	N/A	N/A	N/A	200	N/A	N/A	120/24	DMX	0%		STND	YES	1	RED, GREEN, BLUE, WHITE		JSA-PETERSEN-JMLD
102	60 PENHALLOW	JCCS-RUN B	EXTERIOR	VERTICAL SURFACE	VERTICAL COLOR CHANGE	Q-TRAN	RGBW24/6.0-WET-RGBW-30-BW-N/A-185.04-WIDE-BK-PL-DF-S1-185.04	LED	15.42	292	4502.64	6	92.52	3,000	N/A	24	DMX	0%		BLACK	YES	1	RED, GREEN, BLUE, WHITE	LUMENS VARIABLE	JSA-PETERSEN-JMLD

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
1	PROJECT REFERENCE	DRAWING TYPE	ROOM OR AREA	MOUNTING	FUNCTION	MANUFACTURER	CATALOG NUMBER	SOURCE	LENGTH, DIAMETER OR BEAM SPREAD	LUMENS/ FT.	TOTAL LUMENS	WATTS/ FT	TOTAL WATTS	COLOR TEMP	CRI	VOLTS	DIMMING PROTOCOL	LOW END DIM	WEIGHT (IN LBS)	COLOR	PROVIDE FACTORY GENERATED SHOP DRAWINGS & BILL OF MATERIAL	QTY	EXTERIOR CIRCUIT GROUP	NOTES	REVIEWER
103	60 PENHALLOW	JCCS-RUN B	EXTERIOR	VERTICAL SURFACE	VERTICAL COLOR CHANGE	Q-TRAN	RGBW24/6.0-WET-RGBW-30-BW-N/A-185.04-WIDE-BK-PL-DF-S1-185.04	LED	15.42	292	4502.64	6	92.52	3,000	N/A	24	DMX	0%		BLACK	YES	1	RED, GREEN, BLUE, WHITE	LUMENS VARIABLE	JSA-PETERSEN-JMLD
104	60 PENHALLOW	JCCS-TRA-5	TBD	SURFACE	POWER SUPPLY	Q-TRAN	QTM-eLED-DMX	N/A	N/A	N/A	N/A	N/A	200	N/A	N/A	120/24	DMX	0%		STND	YES	1	RED, GREEN, BLUE, WHITE		JSA-PETERSEN-JMLD
105	60 PENHALLOW	JCCS-RUN A	EXTERIOR	VERTICAL SURFACE	VERTICAL COLOR CHANGE	Q-TRAN	RGBW24/6.0-WET-RGBW-30-BW-N/A-170.75-WIDE-BK-PL-DF-S1-170.75	LED	14.22	292	4152.24	6	85.32	3,000	N/A	24	DMX	0%		BLACK	YES	1	RED, GREEN, BLUE, WHITE	LUMENS VARIABLE	JSA-PETERSEN-JMLD
106	60 PENHALLOW	JCCS-RUN A	EXTERIOR	VERTICAL SURFACE	VERTICAL COLOR CHANGE	Q-TRAN	RGBW24/6.0-WET-RGBW-30-BW-N/A-170.75-WIDE-BK-PL-DF-S1-170.75	LED	14.22	292	4152.24	6	85.32	3,000	N/A	24	DMX	0%		BLACK	YES	1	RED, GREEN, BLUE, WHITE	LUMENS VARIABLE	JSA-PETERSEN-JMLD
107	60 PENHALLOW	JCCS-TRA-6	TBD	SURFACE	POWER SUPPLY	Q-TRAN	QTM-eLED-DMX	N/A	N/A	N/A	N/A	N/A	200	N/A	N/A	120/24	DMX	0%		STND	YES	1	RED, GREEN, BLUE, WHITE		JSA-PETERSEN-JMLD
108	60 PENHALLOW	JCCS-RUN A	EXTERIOR	VERTICAL SURFACE	VERTICAL COLOR CHANGE	Q-TRAN	RGBW24/6.0-WET-RGBW-30-BW-N/A-170.75-WIDE-BK-PL-DF-S1-170.75	LED	14.22	292	4152.24	6	85.32	3,000	N/A	24	DMX	0%		BLACK	YES	1	RED, GREEN, BLUE, WHITE	LUMENS VARIABLE	JSA-PETERSEN-JMLD
109	60 PENHALLOW	JCCS-RUN A	EXTERIOR	VERTICAL SURFACE	VERTICAL COLOR CHANGE	Q-TRAN	RGBW24/6.0-WET-RGBW-30-BW-N/A-170.75-WIDE-BK-PL-DF-S1-170.75	LED	14.22	292	4152.24	6	85.32	3,000	N/A	24	DMX	0%		BLACK	YES	1	RED, GREEN, BLUE, WHITE	LUMENS VARIABLE	JSA-PETERSEN-JMLD
110	60 PENHALLOW	JCCS-TRA-7	TBD	SURFACE	POWER SUPPLY	Q-TRAN	QTM-eLED-DMX	N/A	N/A	N/A	N/A	N/A	200	N/A	N/A	120/24	DMX	0%		STND	YES	1	RED, GREEN, BLUE, WHITE		JSA-PETERSEN-JMLD
111	60 PENHALLOW	JCCS-RUN B	EXTERIOR	VERTICAL SURFACE	VERTICAL COLOR CHANGE	Q-TRAN	RGBW24/6.0-WET-RGBW-30-BW-N/A-185.04-WIDE-BK-PL-DF-S1-185.04	LED	15.42	292	4502.64	6	92.52	3,000	N/A	24	DMX	0%		BLACK	YES	1	RED, GREEN, BLUE, WHITE	LUMENS VARIABLE	JSA-PETERSEN-JMLD
112	60 PENHALLOW	JCCS-RUN B	EXTERIOR	VERTICAL SURFACE	VERTICAL COLOR CHANGE	Q-TRAN	RGBW24/6.0-WET-RGBW-30-BW-N/A-185.04-WIDE-BK-PL-DF-S1-185.04	LED	15.42	292	4502.64	6	92.52	3,000	N/A	24	DMX	0%		BLACK	YES	1	RED, GREEN, BLUE, WHITE	LUMENS VARIABLE	JSA-PETERSEN-JMLD
113	60 PENHALLOW	JCCS-TRA-8	TBD	SURFACE	POWER SUPPLY	Q-TRAN	QTM-eLED-DMX	N/A	N/A	N/A	N/A	N/A	200	N/A	N/A	120/24	DMX	0%		STND	YES	1	RED, GREEN, BLUE, WHITE		JSA-PETERSEN-JMLD
114	60 PENHALLOW	JCCS-RUN A	EXTERIOR	VERTICAL SURFACE	VERTICAL COLOR CHANGE	Q-TRAN	RGBW24/6.0-WET-RGBW-30-BW-N/A-170.75-WIDE-BK-PL-DF-S1-170.75	LED	14.22	292	4152.24	6	85.32	3,000	N/A	24	DMX	0%		BLACK	YES	1	RED, GREEN, BLUE, WHITE	LUMENS VARIABLE	JSA-PETERSEN-JMLD
115	60 PENHALLOW	JCCS-RUN A	EXTERIOR	VERTICAL SURFACE	VERTICAL COLOR CHANGE	Q-TRAN	RGBW24/6.0-WET-RGBW-30-BW-N/A-170.75-WIDE-BK-PL-DF-S1-170.75	LED	14.22	292	4152.24	6	85.32	3,000	N/A	24	DMX	0%		BLACK	YES	1	RED, GREEN, BLUE, WHITE	LUMENS VARIABLE	JSA-PETERSEN-JMLD
116	60 PENHALLOW	JCCS-TRA-9	TBD	SURFACE	POWER SUPPLY	Q-TRAN	QTM-eLED-DMX	N/A	N/A	N/A	N/A	N/A	200	N/A	N/A	120/24	DMX	0%		STND	YES	1	RED, GREEN, BLUE, WHITE		JSA-PETERSEN-JMLD
117	60 PENHALLOW	JCCS-RUN C	EXTERIOR	VERTICAL SURFACE	VERTICAL COLOR CHANGE	Q-TRAN	RGBW24/6.0-WET-RGBW-30-BW-N/A-126.77-WIDE-BK-PL-DF-S1-126.77	LED	10.56	292	3083.52	6	63.36	3,000	N/A	24	DMX	0%		BLACK	YES	1	RED, GREEN, BLUE, WHITE	LUMENS VARIABLE	JSA-PETERSEN-JMLD
118	60 PENHALLOW	JCCS-RUN C	EXTERIOR	VERTICAL SURFACE	VERTICAL COLOR CHANGE	Q-TRAN	RGBW24/6.0-WET-RGBW-30-BW-N/A-126.77-WIDE-BK-PL-DF-S1-126.77	LED	10.56	292	3083.52	6	63.36	3,000	N/A	24	DMX	0%		BLACK	YES	1	RED, GREEN, BLUE, WHITE	LUMENS VARIABLE	JSA-PETERSEN-JMLD
119	60 PENHALLOW	JCCS-TRA-10	TBD	SURFACE	POWER SUPPLY	Q-TRAN	QTM-eLED-DMX	N/A	N/A	N/A	N/A	N/A	200	N/A	N/A	120/24	DMX	0%		STND	YES	1	RED, GREEN, BLUE, WHITE		JSA-PETERSEN-JMLD
120	60 PENHALLOW	JCCS-RUN C	EXTERIOR	VERTICAL SURFACE	VERTICAL COLOR CHANGE	Q-TRAN	RGBW24/6.0-WET-RGBW-30-BW-N/A-126.77-WIDE-BK-PL-DF-S1-126.77	LED	10.56	292	3083.52	6	63.36	3,000	N/A	24	DMX	0%		BLACK	YES	1	RED, GREEN, BLUE, WHITE	LUMENS VARIABLE	JSA-PETERSEN-JMLD
121	60 PENHALLOW	JCCS-RUN C	EXTERIOR	VERTICAL SURFACE	VERTICAL COLOR CHANGE	Q-TRAN	RGBW24/6.0-WET-RGBW-30-BW-N/A-126.77-WIDE-BK-PL-DF-S1-126.77	LED	10.56	292	3083.52	6	63.36	3,000	N/A	24	DMX	0%		BLACK	YES	1	RED, GREEN, BLUE, WHITE	LUMENS VARIABLE	JSA-PETERSEN-JMLD
122	60 PENHALLOW	JCCS-TRA-11	TBD	SURFACE	POWER SUPPLY	Q-TRAN	QTM-eLED-DMX	N/A	N/A	N/A	N/A	N/A	200	N/A	N/A	120/24	DMX	0%		STND	YES	1	RED, GREEN, BLUE, WHITE		JSA-PETERSEN-JMLD
123	60 PENHALLOW	JDDR	SOUTHWEST ENTRANCE	RECESS	ENTRY LIGHTS	USAI	B4RCF-16C3-30KS-70-S-WH-WH-NCIC-UNV-D6E	LED	70 degree	N/A		N/A	16	3,000	80	120/277	0-10V	1%		WHITE/WHITE	NO	1	SOUTHWEST ENTRY		JSA-PETERSEN-JMLD
124	60 PENHALLOW	JDDR	GARAGE ENTRANCE	RECESS	ENTRY LIGHTS	USAI	B4RCF-16C3-30KS-70-S-WH-WH-NCIC-UNV-D6E	LED	70 degree	N/A		N/A	16	3,000	80	120/277	0-10V	1%		WHITE/WHITE	NO	2	GARAGE		JSA-PETERSEN-JMLD

J M LIGHTING DESIGN, INC. 207-967-5223
jmlight2@roadrunner.com

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
1	**PROJECT REFERENCE**	**DRAWING TYPE**	**ROOM OR AREA**	**MOUNTING**	**FUNCTION**	**MANUFACTURER**	**CATALOG NUMBER**	**SOURCE**	**LENGTH, DIAMETER OR BEAM SPREAD**	**LUMENS/ FT.**	**TOTAL LUMENS**	**WATTS/ FT**	**TOTAL WATTS**	**COLOR TEMP**	**CRI**	**VOLTS**	**DIMMING PROTOCOL**	**LOW END DIM**	**WEIGHT (IN LBS)**	**COLOR**	**PROVIDE FACTORY GENERATED SHOP DRAWINGS & BILL OF MATERIAL**	**QTY**	**EXTERIOR CIRCUIT GROUP**	**NOTES**	**REVIEWER**
125	60 PENHALLOW	JEER	NORTHEAST ENTRANCE	RECESS	ENTRY LIGHTS	HUNZA	EAVE/T6/L-S-EBZ-60-3	LED	60 degree	N/a	600	n/a		3,000	80	6 VOLT DC	0-10V	1%		BRONZE	YES	3	NORTHEAST ENTRY		JSA-PETERSEN-JMLD
126	60 PENHALLOW	JEER-TRA-1	TBD	SURFACE	POWER SUPPLY	HUNZA	TCI-122413-1050MA/PC-17-02	N/A	N/A	N/A	600	N/A		N/A	N/A	120/ 6 VOLT DC	0-10V	1%		STND	YES	1	NORTHEAST ENTRY		

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SW24/4.0

STRIP - STATIC WHITE

TYPE JAAS-33 or 42 PILLARS

V/WATTS	RATED	CCT - LUMENS/CRI	[2]CONNECTOR/ WIRE IN	[2]CONNECTOR/ WIRE OUT	ILLUMINATED LENGTH (IN)
SW24/4.0	WET	30	BW	BW	33 or 42

Voltage: 24 VDC
Wattage: 4.0 W/ft

RATED	CCT - LUMENS/CRI	[2]CONNECTOR/ WIRE IN	[2]CONNECTOR/ WIRE OUT	ILLUMINATED LENGTH (IN)
DRY	**20** - 2000K 309/93 **22** - 2200K 314/96 **24** - 2400K 306/95 **27** - 2700K 349/98 **30** - 3000K 373/98 **35** - 3500K 389/98 **40** - 4000K 369/96	[1]BW BRL CLS	CLS [1]BW BRL	**1"-288"** OR **[2]MATCH** 1" increments Matches EXT length ordered
DMP	**24** - 2400K 284/94 **27** - 2700K 276/97 **30** - 3000K ***/** **35** - 3500K ***/** **40** - 4000K 324/95	[1]BW BRL	CLS [1]BW BRL	**1"-180"** OR **[2]MATCH** 1" increments Matches EXT length ordered
[3]ENC				**[2]MATCH** Matches EXT length ordered
WET	**20** - 2000K 260/94 **22** - 2200K ***/** **24** - 2400K 282/96 **27** - 2700K 285/95 **30** - 3000K 299/96 **35** - 3500K 323/96 **40** - 4000K 337/96	[1]BW BRL	CLS [1]BW BRL	**1"-288"** OR **[2]MATCH** 1" increments Matches EXT length ordered

ENC RATED STRIP ARE NOT FIELD CUTTABLE

NOTES:

- Field modifications must comply with Q-Tran's installation methods otherwise warranty is null and void
- All data has +/- 5% tolerance
- 5 year warranty
- NRTL Listed for install in Storage Areas with Clothing, NEC Field 410.2 and 410.16 when assembled as a fixture, at Q-Tran facility (Not applicable for encapsulation)
- Title 24 - JA8-2016 Strips: Dry rated, 2200K and above

1 BW comes in standard 24"- request custom length (Max 120") by writing it in inches next to "BW" in the order code box (ex. BW48)

2 - Wire orientation for MATCH will be dictated by extrusion Feed In/Feed Out selection
- Connector/Wire In or Out not needed to specify product. Standard configuration is BW for Wire In and CLS for Wire out

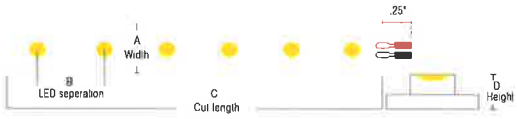
3 If ordering an encapsulated extrusion, ENC (Encapsulated in Extrusion) must be chosen for your strip

TECHNICAL INFORMATION (L70 = 30000 HRS)

*Tested with SW24/4.0-DRY

CCT	Lumen/ft	CRI Ra	CRI R9	TM30 Rf	TM30 Rg
2000K	309	93	60	89	103
2200K	314	96	90	94	101
2400K	306	95	97	94	103
2700K	349	98	93	94	101
3000K	373	98	95	94	101
3500K	389	98	96	92	100
4000K	369	96	90	90	101

DIMENSIONS

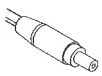


Section (in)	DRY	DMP	WET
A	0.32"	0.32"	0.39"
B	0.16"	0.16"	0.16"
C	1.00"	1.00"	1.00"
D	0.06"	0.12"	0.21"

CONNECTOR/WIRE IN

[1]BW	BRL	CLS
		
Bare Wire 24"	Male Barrel 6"	Not soldered DRY ONLY

CONNECTOR/WIRE OUT

[1]BW	BRL	CLS
		
Bare Wire 24"	Female Barrel 6"	Not soldered

COMPATIBLE EXTRUSIONS

SLIM	WIDE	ROND	VEGA	TORQ	TRE3	ARKA	TELA	VEVE	FLUR	LATO	MDIN
☑ DRY	☑ DRY	☑ DRY	☑ DRY	☑ DRY	☑ DRY	☑ DRY	☑ DRY	☑ DRY	☑ DRY	☑ DRY	☐ DRY
☑ DMP	☑ DMP	☑ DMP	☑ DMP	☑ DMP	☑ DMP	☑ DMP	☑ DMP	☑ DMP	☑ DMP	☑ DMP	☐ DMP
☐ ENC	☐ ENC	☐ ENC	☐ ENC	☑ ENC	☐ ENC	☐ ENC	☐ ENC	☐ ENC	☑ ENC	☑ ENC	☐ ENC
☑ WET - No Lens	☑ WET	☐ WET	☐ WET	☑ WET	☑ WET	☑ WET	☑ WET	☑ WET	☑ WET	☑ WET	☐ WET

PROJECT NAME | DATE | COMPANY | TYPE | NOTE

 | 155 Hill St. Milford, CT 06460 | 203-367-8777 | sales@q-tran.com | www.q-tran.com | Specification subject to change | Rev-10-22-19

TORQ
EXTRUSIONS - ALUMINUM

Model: iQA

TYPE JAAS-33 or 44

PRODUCT	FINISH	MOUNTING	LENS	TYPE	FINISHED FIXTURE LENGTH (IN)
TORQ	BK	SST	ENC/TL	S1	33 or 44
	ST BK BZ	SST	CL/60 CL/70 FR PR DF ENC/CL ENC/TL	S1 S2 S3 S4 Single (Closed exit) P1 P2 P3 P4 Pass through NI Not installed (Strip not installed in factory)	1" increments from 1" - 98.43" Tolerance +0.0"/-0.5"

NOTES:
- UL Listed when assembled with STRIP LEDs at Q-Tran
- NRTL Listed for install in Storage Areas with Clothing, NEC Field 410.2 and 410.16 when assembled as a fixture, with 4.0 w/ft or less, at Q-Tran facility (Not applicable for encapsulation)
- Field modifications must comply with Q-Tran's installation methods otherwise warranty is null and void

FINISH

ST	BK	BZ
Satin	Black	Bronze

MOUNTING NOTE: 2 clips provided for 4' or less; 4 clips provided for greater than 4'

TORQ-SST

Stainless Steel

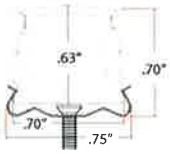
QTY:

LENS with LED visibility

CL	FR	PR	DF	ENC/CL	ENC/TL
Clear	Frosted	Polar	Diffused	Encapsulated in Clear	Encapsulated in Translucent

DIMENSIONS

Profile



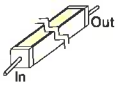
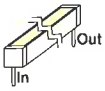
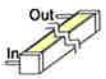
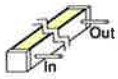
Profile with Stainless Steel Mounting Clip

TYPE

SINGLE (Input only)

S1	S2	S3	S4
			

PASS THROUGH (Input/Output)

P1	P2	P3	P4
			

ORDER EXAMPLE

END CAPS

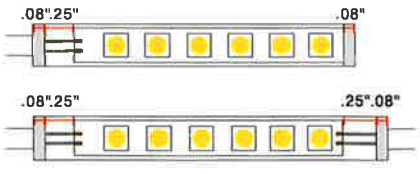
QTY:

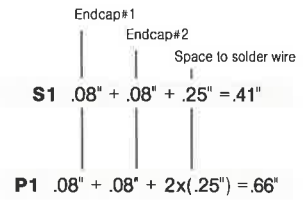
Endcap

CUT OFF

CL/60	CL/70
	
Clear 60°	Clear 70°

LENGTH (IN) : Add to nominal LED length for fixture length





PROJECT NAME	DATE	COMPANY	TYPE	NOTE

 | 155 Hill St. Milford, CT 06460 | 203-367-8777 | sales@q-tran.com | www.q-tran.com | Specification subject to change | Rev-11-01-19

KURV-SW
FIXTURES - FLEXIBLE (Q-CAP)

TYPE JBBS - UNDER BENCH & PODIUM

PRODUCT	MOUNTING	RATED	CCT	OUTPUT	LENS	TYPE	CONNECTOR/ WIRE IN	CONNECTOR/ WIRE OUT	END CAPS (NO FEED)	LENGTH (IN)
KURV-SW	WSC	WET	30	SO	ENC-TL	S5	BW			
Voltage: 24 VDC Wattage: see table	WSC RLC MC *SGC PPS PPS-96	DRY WET	24 - 2400K 27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K	SO HO VHO	ENC/CL ENC/TL	Single (Closed exit): S1, S2, S3, S4, [2]S5, [2]S6 Pass through: P1, P2, P3, P4, [2]P5	[1]BW BRL	N/A	CL WH	1" increments from 1"-191" Tolerance +0.0"/-cutpoint for installed product"

ENCAPSULATED PRODUCTS ARE NOT FIELD CUTTABLE

*White Snug Clip included with Side Graze Channel

NOTES:
- Field modifications are not covered under Q-Tran warranty
- Data subject to change, all data has +/- 5% tolerance

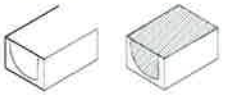
1 • BW comes in standard 24"- request custom length (Max 120") by writing it in inches next to "BW" in the order code box (ex. BW48)
• Connector/Wire In or Out not needed to specify product. Standard configuration is Type S1, Connector/Wire In: BW & Connector/Wire Out: N/A with White Endcap (WH)

2 PPS mounting clip recommended for seamless applications

OUTPUT Tested for KURV-SW-WSC-DRY [L70 = 40000 HRS]

	SO Standard Output 1.5 W/ft				HO High Output 3.0 W/ft				VHO Very High Output 5.0 W/ft			
	ENC/CL		ENC/TL		ENC/CL		ENC/TL		ENC/CL		ENC/TL	
CCT	LM	CRI	LM	CRI	LM	CRI	LM	CRI	LM	CRI	LM	CRI
2400K	110	94	103	95	197	93	182	93	274	94	261	94
2700K	110	98	103	97	208	98	195	98	279	99	247	99
3000K	118	98	109	98	213	98	198	98	298	97	277	97
3500K	121	96	115	95	213	96	203	97	305	97	295	97
4000K	128	96	121	96	229	97	213	97	294	97	284	97

LENS with LED visibility



ENC/CL: Encapsulated in Clear
ENC/TL: Encapsulated in Translucent

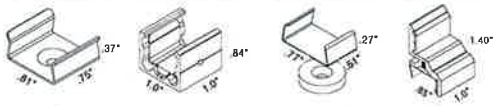
CONNECTOR/WIRE IN

[1]BW: Bare Wire 24"
BRL: Male Barrel 6"

CONNECTOR/WIRE OUT

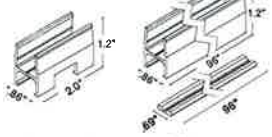
[1]BW: Bare Wire 24"
BRL: Female Barrel 6"

MOUNTING NOTE: 2 clips provided per first 12", 1 clip provided per additional 12"



WSC: White Snug Clip
RLC: Rigid Lock Channel
MC: Magnetic Clip (Cove use only)
SGC: Side Graze Channel

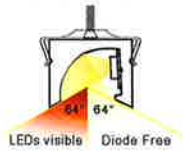
QTY: QTY: QTY: QTY:



PPS: PVC Mount Clip
PPS-96: PVC Channel

QTY: QTY:

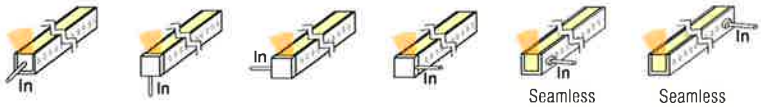
VIEWING ANGLE



ENC/CL only

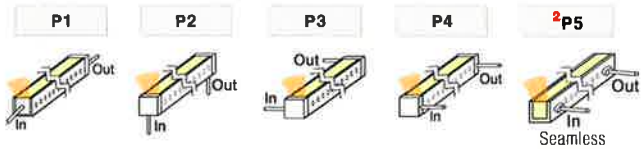
TYPE

SINGLE (Input only)



S1, S2, S3, S4, [2]S5: Seamless, [2]S6: Seamless

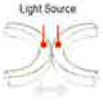
PASS THROUGH (Input/Output)



P1, P2, P3, P4, [2]P5: Seamless

ORDER EXAMPLE

FLEXIBILITY



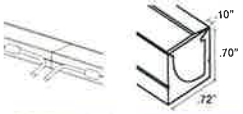
Side Bend 6" Bending Radius

SEAMLESS

Shown with Bare Wire, connectors vary

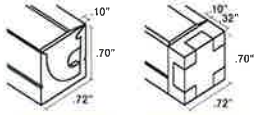
Omnidirectional Wireways
S5, S6, P5

END CAPS (NO FEED)



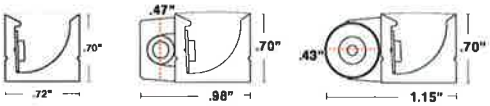
CL: CLEAR ENDCAPS .0" added at end, .00" dim spot
WH: WHITE ENDCAPS .0" added at end, .10" dim spot

END CAPS (WITH FEED)



End Feed S1, P1: WHITE ENDCAPS .0" added at end, .10" dim spot
Tri-Directional S2, S3, S4, P2, P3, P4: WHITE ENDCAPS .32" added at end, .42" dim spot

DIMENSIONS



Profile (Standard)
Profile (Seamless Bare Wire)
Profile (Seamless Barrel)

PROJECT NAME	DATE	COMPANY	TYPE	NOTE

 | 155 Hill St. Milford, CT 06460 | 203-367-8777 | sales@q-tran.com | www.q-tran.com | Specification subject to change | Rev-10-16-19

TYPE JCCS-LENGTHS

WIDE
EXTRUSIONS - ALUMINUM

Model: iQA

c UL us LISTED | RoHS COMPLIANT | NEC 410.8 and 410.16

PRODUCT	FINISH	MOUNTING	LENS	TYPE	FINISHED FIXTURE LENGTH (IN)
WIDE	BK	PL	DF	S1	LENGTHS
	ST BK BZ	PL	CL PR DF	S1 S2 S3 S4 — Single (Closed exit) P1 P2 P3 P4 — Pass through NI — Not installed (Strip not installed in factory)	1" increments from 1" - 98.43" Tolerance +0.0"/-0.5"

NOTES:
- UL Listed when assembled with STRIP LEDs at Q-Tran
- NRTL Listed for install in Storage Areas with Clothing, NEC Field 410.2 and 410.16 when assembled as a fixture, with 4.0 w/ft or less, at Q-Tran facility (Not applicable for encapsulation)
- Field modifications must comply with Q-Tran's installation methods otherwise warranty is null and void

FINISH

ST | BK | BZ

Satin | Black | Bronze

MOUNTING NOTE: 2 clips provided for 4' or less; 4 clips provided for greater than 4'

WIDE-PL

Plastic

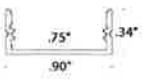
.47" .56" 1.03"

LENS with LED visibility

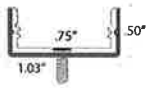
CL | PR | DF

Clear | Polar | Diffused

DIMENSIONS



Profile

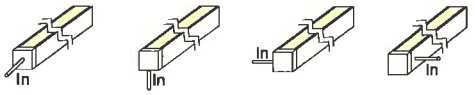


Profile with Plastic Mounting Clip

TYPE

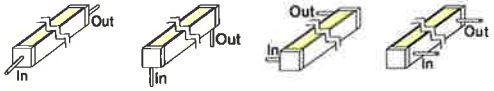
SINGLE (Input only)

S1 | S2 | S3 | S4



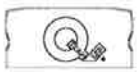
PASS THROUGH (Input/Output)

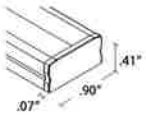
P1 | P2 | P3 | P4



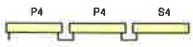
END CAPS

ENDCAP

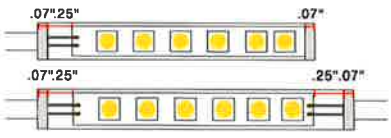




ORDER EXAMPLE



LENGTH (IN) : Add to nominal LED length for fixture length



Endcap#1 | Endcap#2 | Space to solder wire

S1 .07" + .07" + .25" = .39"

P1 .07" + .07" + 2(.25") = .64"

CUT OFF

CL

Clear 97°

COMPATIPLE LEDs

STATIC WHITE (SW)				DYNAMIC WHITE (DW)				STATIC COLOR (SC)				RGB				RGBW			
DRY	DMP	WET	ENC	DRY	DMP	WET	ENC	DRY	DMP	WET	ENC	DRY	DMP	WET	ENC	DRY	DMP	WET	ENC
✓	✓	✓	✗	✓	✓	✓	✗	✓	✓	✓	✗	✓	✗	✓	✗	✓	✓	✓	✗

✓ = Compatible
✗ = NOT Compatible

PROJECT NAME	DATE	COMPANY	TYPE	NOTE

 | 155 Hill St. Milford, CT 06460 | 203-367-8777 | sales@q-tran.com | www.q-tran.com | Specification subject to change | Rev-11-22-19

TYPE JCCS-LENGTHS

RGBW24/6.0

STRIP - DYNAMIC COLOR

V/WATTS	RATED	CCT - LUMENS/CRI	[2]CONNECTOR/ WIRE IN	[2]CONNECTOR/ WIRE OUT	ILLUMINATED LENGTH (IN)	
RGBW24/6.0	WET	RGBW-30	BW	N/A	LENGTHS	
Voltage: 24 VDC Wattage: 6.0 W/ft	DRY	RGBW-27 - 2700K 89/93 RGBW-30 - 3000K 99/94	[1]BW CLS	CLS [1]BW	4"-192" 3.85" increments	OR [2]MATCH Matches EXT length ordered
	DMP	RGBW-27 - 2700K**/** RGBW-30 - 3000K**/**	[1]BW	CLS [1]BW	4"-180" 3.85" increments	OR [2]MATCH Matches EXT length ordered
	WET	RGBW-27 - 2700K**/** RGBW-30 - 3000K**/**	[1]BW	CLS [1]BW	4"-192" 3.85" increments	OR [2]MATCH Matches EXT length ordered

ENC RATED STRIP ARE NOT FIELD CUTTABLE

NOTES:
- Field modifications must comply with Q-Tran's installation methods otherwise warranty is null and void
- All data has +/- 5% tolerance
- 5 year warranty
- Consult factory for alternate Kelvin temperature

1 BW comes in standard 24"- request custom length (Max 120") by writing it in inches next to "BW" in the order code box (ex. BW48)

2 • Wire orientation for MATCH will be dictated by extrusion Feed In/Feed Out selection
• Connector/Wire In or Out not needed to specify product. Standard configuration is BW for Wire In and CLS for Wire out

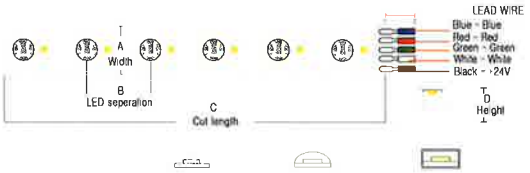
TECHNICAL INFORMATION [L70 = 30000 HRS]

*Tested with RGBW24/6.0-DRY

CCT	Lumen/ft	Wavelength	Circuit Wattage
Red	37	630	1.5
Green	124	513	1.5
Blue	32	466	1.5

CCT	Lumen/ft	CRI Ra	CRI R9	TM30 Rf	TM30 Rg	Circuit Wattage
2700K	89	93	67	92	100	1.5
3000K	99	94	75	91	102	1.5

DIMENSIONS



Section (in)	DRY	DMP	WET
A	0.47"	0.47"	0.55"
B	0.65"	0.65"	0.65"
C	3.85"	3.85"	3.85"
D	0.10"	0.10"	0.18"

CONNECTOR/WIRE IN

[1]BW

Bare Wire 24"

CLS

Not soldered
DRY ONLY

CONNECTOR/WIRE OUT

[1]BW

Bare Wire 24"

CLS

Not soldered

COMPATIBLE EXTRUSIONS

	SLIM	WIDE	ROND	VEGA	TORQ	TRE3	ARKA	TELA	VEVE	FLUR	LATO	MDIN
DRY	☐	☑	☐	☐	☐	☑	☑	☑	☑	☐	☐	☐
DMP	☐	☑	☐	☐	☐	☑	☑	☑	☑	☐	☐	☐
ENC	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
WET	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

PROJECT NAME | DATE | COMPANY | TYPE | NOTE

 | 155 Hill St. Milford, CT 06460 | 203-367-8777 | sales@q-tran.com | www.q-tran.com | Specification subject to change | Rev-10-14-19

TYPE JDDR

BeveLED® 2.2 Complete
4.5" Round Deep Regress Downlight - B4RC

USAI Lighting

Universal and Field Convertible - Trim | Trimless | Millwork

Trimmed - B4RCF

Trimless - B4RCL

Millwork - B4RCM

usailighting.com/beveled

FEATURES

- Field Flexibility between trimmed, trimless and millwork
- Dry/damp/wet location rated for bathrooms and showers, including trimless and millwork
- 1% dimming standard + more dimming options
- Clear overspray protector for installation convenience
- Full family platform
- Iconic beveled look

COMPANION FAMILY PRODUCTS

Downlight - B4RD
usailighting.com/B4RD

Adjustable - B4RA
usailighting.com/B4RA

Wall Wash - B4RW
usailighting.com/B4RW

DEEP REGRESS DOWNLIGHT PERFORMANCE DATA

	LED COLOR CHOICES									
	Classic White						Warm Glow Dimming		Color Select	
DELIVERED* PERFORMANCE:	**9W**	**12W**	**16W**	**24W**	**33W**	**36W**	**16W**	**32W**	**16W**	**32W**
Source Lumens:	1150	1300	1725	2400	3025	4150	1275	2150	1250	2075
Lumens Per Watt:	70	69	68	64	58	85	56	47	54	52
Delivered Lumens:	625	825	1100	1550	1925	2950	900	1500	850	1525
EM Mode Output:	450 Delivered Lumens (nominal)						350 Delivered Lumens		375 Delivered Lumens	

*Based on 3000K, 80+ CRI. Performance varies for each specific beamspread and color temperature. See IES files for exact values at usailighting.com.

CORRELATED COLOR TEMPERATURE MULTIPLIER	Classic White								Warm Glow Dimming					Color Select					
	2200K	**2700K**		**3000K**		**3500K**		**4000K**		**2700K**		**3000K**		**3500K**	**2200K**	**2700K**	**3500K**	**4000K**	**5000K**	**6000K**
Color Rendering Index:	80+	80+	90+	80+	90+	80+	90+	80+	90+	80+	90+	80+	90+	80+	80+	80+	80+	80+	80+	80+
Multiplier for Lumen Output:	0.72	0.94	0.78	1.00	0.78	1.00	1.00	1.06	1.06	0.94	0.74	1.00	0.80	1.07	0.87	0.96	1.04	1.09	1.13	1.18

THE COMPLETE BEVELED FAMILY PLATFORM

More Ceiling Applications

Sloped Ceiling | BeveLED Block | Cylinders

More Sizes and Shapes

BeveLED Micro | BeveLED Mini | BeveLED 5.0

Armstrong® Ceiling Solutions Compatible

Trimless Acoustical | Connect TechZone | BeveLED Connect

USAI LIGHTING COLLABORATORY
13 Crosby Street
New York, NY 10013
845-234-4090
showroom@usailighting.com

USAI LIGHTING HEADQUARTERS
1126 River Road
New Windsor, NY 12553
T: 845-565-8500
info@usailighting.com

Revised 06/04/2019

BeveLED® 2.2 Complete
4.5" Round Deep Regress Downlight - B4RC

USAI Lighting

Specify fixture part number. (All boxes must be filled in to correctly order)

B4RC_	16C3	30KS	70	S	WH	WH	NCIC	UNV	D6E	

BeveLED Trim Style

F
Trimmed with Flange (use with all materials)

L
Trimless Spackle-in (use with sheetrock and plaster only)

M
Millwork Knife-Edge (use with wood and stone)

Wattage Options

Classic White Light

09C3 9W LED
12C3 12W LED
16C3 16W LED
24C3 24W LED
33C3 33W LED
36E1 36W LED

Warm Glow Dimming

16WG2 16W LED
32WG2 32W LED

Color Select Tunable White

16CS1 16W LED
32CS1 32W LED

LED Color Options

22KS (1) 2200K, 80+ CRI
27KS 2700K, 80+ CRI
27KH 2700K, 90+ CRI
30KS 3000K, 80+ CRI
30KH 3000K, 90+ CRI
35KS 3500K, 80+ CRI
35KH 3500K, 90+ CRI
40KS 4000K, 80+ CRI
40KH 4000K, 90+ CRI

2722KS 2700K-2200K, 80+ CRI
2722KH 2700K-2200K, 90+ CRI
3022KS 3000K-2200K, 80+ CRI
3022KH 3000K-2200K, 90+ CRI
3522KS 3500K-2200K, 80+ CRI

6022KS 6000K-2200K, Tunable White Light 80+ CRI

Beam Options

25 25° beam
40 40° beam
70 70° beam

25 25° beam
40 40° beam
65 65° beam

30 30° beam
40 40° beam
50 50° beam

Lens Options

S
Solite (provided standard)

SF
Solite Frosted

BF
Borosilicate Frosted

Bevel Trim Finish Options

WH White
SC Conduit Silver
GR Grey
BL Black
BZ Bronze
PR Primer Finish
AC Clear Matte Anodized
AB Piano Gloss Black
RAL Custom Color Specify RAL #

*Flange/ Millwork Collar Finish

WH White
SC Conduit Silver
GR Grey
BL Black
BZ Bronze
PR Primer Finish
AC Clear Matte Anodized
WH White
GR Grey
BL Black
AB Piano Gloss Black
WH White
GR Grey
BL Black
RAL Custom Color Specify RAL #

*Leave blank for Trimless

Housing Options

NCSM
New Construction Narrow Width

NC
New Construction

NCCP
Chicago Plenum

NCIC
Insulation Contact Rated / Airtight (1)

Voltage Options
Select one

UNV 120V-277V

120V

347V

Dimming Driver Options

For use with Universal Voltage 120V - 277V

No Additional Charge
D6E
EldoLED 0-10V, 1% (provided standard)
D6F
EldoLED 0-10V, 1%

D4A
Lutron Hilume Premier ECO, 0.1% (1, 2, 3, 5, 6)
D4E
Lutron 5 ECO, 5% (2, 3, 4)
D4H
Lutron H ECO, 1% Fade (2, 3, 4)
D4P
Lutron Hilume Premier ECO, 1% (1, 5, 6)
D6A
EldoLED 0-10V, 0.1%
D6B
EldoLED 0-10V, 0.1%
D7
EldoLED DALI, 0.1%
D18
Moons DMX, 0.1% (2, 3)

For use with 120V only

No Additional Charge
D19
Phase 2-wire, 1% (1, 2, 3, 4, 5)
D3
Lutron 2-wire, 1%

For use with 347V only

D15
0-10V dim, 1% 347V only (2, 3)

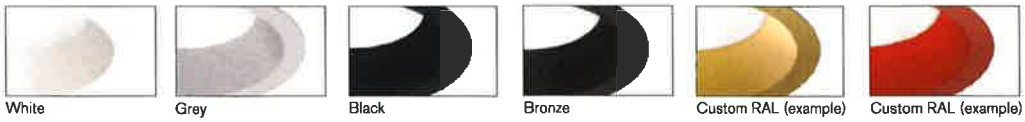
Acessories (Optional)*

CB27
27" C-Channel Bars
CB32
32" C-Channel Bars
CB52
52" C-Channel Bars
EM
Emergency Battery (7)
EMW
Emergency Battery Wet Location (7)

*Residential grade nailer bars provided standard

Notes: *1 Not available with 36E1LED*
2 Not available for Warm Glow.
3 Not available for Color Select.
4 Not available with 9W.
5 Not available with 33W
6 For use with 16W and lower only.
7 Not available with 347V. For NC and NCSM housings only. NCSM housing requires above ceiling access.

TRIM FINISH OPTIONS



White | Grey | Black | Bronze | Custom RAL (example) | Custom RAL (example)

Custom colors and primer finish also available

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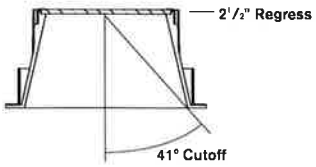
BeveLED® 2.2 Complete
4.5" Round Deep Regress Downlight - B4RC

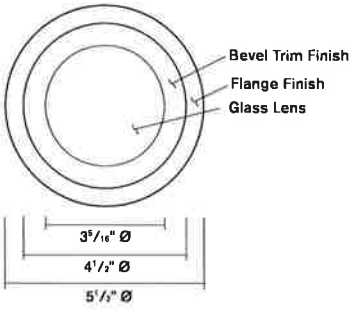
USAI Lighting

Trimmed - B4RCF

TRIM DETAILS

Trimmed - B4RCF

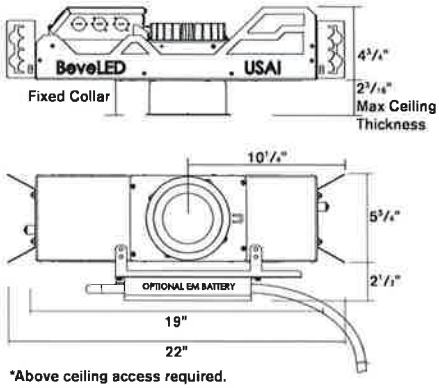




Clear acrylic overspray protector provided standard with every housing to keep out dust and contaminants during construction. Allows for use as work light.

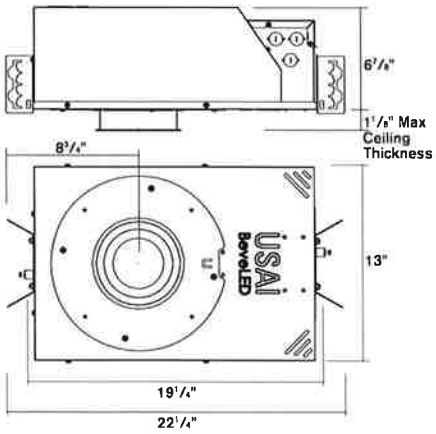
HOUSING OPTIONS

New Construction Narrow Width - NCSM
NCSM with Emergency Battery*

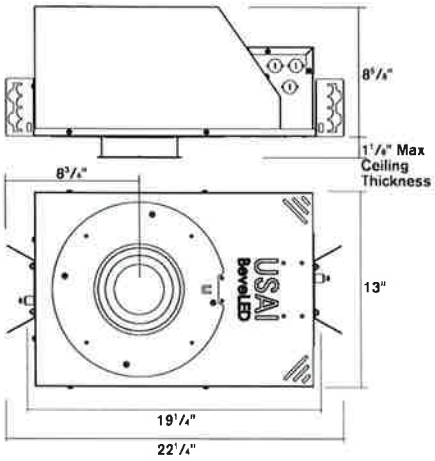


*Above ceiling access required.

New Construction - NC
Insulation-Contact Rated (24W Max) - NCIC
Chicago Plenum Rated (24W Max) - NCPP
NC with Emergency Battery



Insulation-Contact Rated (32W-33W) - NCIC
Chicago Plenum Rated (32W-36W) - NCCP



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BeveLED® 2.2 Complete
4.5" Round Deep Regress Downlight - B4RC

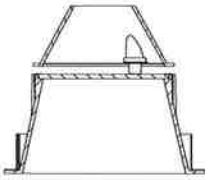
USAI Lighting

BEVELED 2.2 SPECIFICATIONS

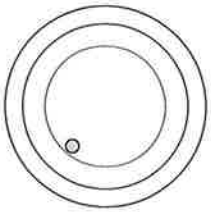
FIELD REPLACEABLE LED LIGHT ENGINE
is serviceable through the aperture without tools or with a Philips screwdriver. All USAI Lighting light engines feature industry-leading color consistency.

FIELD REPLACEABLE DRIVER
Unless otherwise specified, a 0-10V, 100%-1% solid state electronic constant current integral D6E dimming driver with a high power factor is provided standard and sources 2mA. All integral dimming drivers are located within the fixture housing and are serviceable from below the ceiling through the aperture. Some on-time delay may be experienced depending on control system used. All dimming drivers comply with IEEE C62.41 surge protection.

EMERGENCY BATTERY
IOTA emergency battery provides backup power for 90 minutes. NC EM fixtures are provided with an integral emergency battery with integral test switch and can be serviced through the aperture from below the ceiling plane. NCSM EM fixtures are provided with an integral emergency battery with a remote test switch, which comes with a 24" lead length for location of the test switch. Remote EM test switch is dry/damp only; select EMW emergency option for a wet location-rated EM test switch. NCSM EM fixtures require above ceiling access for service of the EM pack. Fixtures that have no USAI EM option may be connected to an inverter (by others) for emergency lighting. Battery is not available with 347V.



Integral Emergency Test Switch included with NC housing



Remote Emergency Test Switch included with NCSM housing (above ceiling access required).

HOUSING
All BeveLED 2.2 fixtures are field-flexible which allows for field changes from trimless to trimmed or millwork with a simple components change with parts from USAI. Housings are fabricated of 20 ga. steel construction with thru wire J-box, 4 in 4 out at min. 90°C, #12 AWG thru branch circuit wiring, except for NCSM which is fabricated of 18 ga. steel. NCIC housing for use with 9W, 12W, and 16W light engines only are rated for direct contact with spray foam insulation of R-42 or less.

MOUNTING
B4RCF overlap flange fixtures are designed for use in sheetrock, acoustical ceiling tile, and many other ceiling materials. B4RCL trimless fixtures are provided with a spackle collar and are designed for use in sheetrock/mud-in ceiling applications. B4RCM millwork fixtures are provided with a millwork collar in finish to match trim finish specified and are designed for use in wood/millwork, stone and tile construction applications. Butterfly brackets and residential grade adjustable nailer bars extendible from 14" to 24" centers with integral nails are provided standard for attachment to building structure. C-channel bars are optionally available for acoustical ceiling applications.

Residential-grade nailer bars provided standard.

FIXTURE WEIGHT
NC, NCIC, and NCCP housings weigh 16 lbs. NCSM housing weighs 10 lbs. NCSM with EM weighs 16.5 lbs, and NC housing with EM weighs 24.5 lbs.

WARRANTY
Based on IESNA LM80-2008, BeveLED has a 50,000 hour rated life at 70% lumen maintenance (L70). USAI Lighting Warranty covers replacement parts for 5 years from date of shipment. Ambient temperatures at fixture location should not exceed 40°C during normal operation.

CEILING CUT OUT
B4RCF Trimmed Overlap Flange: 5-1/16" ∅
B4RCL Trimless Spackle-in: 5-1/2" ∅
B4RCM Millwork Knife-edge: 4-15 /16" ∅

LISTINGS
Dry/Damp/Wet location. UL2043 rated for use in air handling plenums. AC and AB trim finishes are dry/damp only. Remote EM test switch is dry/damp only. Select EMW option for wet location remote test switch. NRTL/CSA-US tested to UL standards. IBEW union made.

NOTES
• Use of pressure washer voids warranty

PHOTOMETRICS
Consult factory or website for IES files. Tested in accordance with IESNA LM79.

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BeveLED® 2.2 Complete
4.5" Round Deep Regress Downlight - B4RC

USAI® Lighting

LED COLOR OPTIONS

Classic White Light

Our proprietary LED light engines achieve a 2-step MacAdam ellipse along the black body locus, resulting in reliable and uniform color from fixture to fixture. You'll see the results in consistently beautiful light throughout your space, whichever USAI LED product you specify.


Warm Glow® Dimming

Warm Glow Dimming provides warmth and glow once possible only in dimmed incandescent sources. Utilizing our potented proprietary algorithm and circuitry, Warm Glow Dimming technologies precisely mimic the black body curve of a standard 100W A19 lamp by gradually transitioning from 2700K , 3000K or 3500K down to 2200K. The result is virtually indistinguishable from an incandescent light source.


Color Select® Tunable White

Color Select represents the next innovation in color temperature control for advanced LED recessed downlighting. Color Select® products allow users to adjust color temperature from 6000K down to 2200K while independently adjusting intensity to achieve ultimate control over the quality of light in a space with a single fixture type. Color Select interfaces with standard dimming and control systems.


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USAI Lighting

DIMMING DRIVER COMPATIBILITY SELECTION GUIDE
D6A / DIML6A and D6E / DIML6E
D6B / DIML6B and D6F / DIML6F

IMPORTANT SAFETY INSTRUCTIONS - SAVE THESE INSTRUCTIONS

1. Keep these instructions in a safe place for future reference.
2. Only qualified electricians in accordance to local codes should install these fixtures.
3. De-energize the electrical circuit at the circuit breaker prior to installation process or servicing.
4. Make sure all connections are in accordance with the National Electrical Code and any local regulations.
5. Cap any wires not used separately (not together).

D6A / DIML6A and D6E / DIML6E LED Dimming Compatibility Table

D6A / DIML6A and D6E / DIML6E are linearly programmed dimming drivers for use with the dimming controls listed in the table below.
D6A / DIML6A = EldoLED SOLOdrive 0-10V control dims from 100% to 0.1%
D6E / DIML6E = EldoLED ECOdrive 0-10V control dims from 100% to 1%

D6A / DIML6A and D6E / DIML6E Dimmer Compatibility Chart					
Manufacturer	Product	Part Number	Dimmed Light Output Range		Qty Fixtures Per Dimmer*
120V & 277V			DIML6A	6E	
Lutron	Diva	DVTV/NFTV with PP-20	99% - 0.1%	1%	Refer to manufacturer's dimmer load rating for maximum and minimum fixture quantities per dimmer. Enlighted compatible.
Lutron	Nova T	NTFTV with PP-20	99% - 0.1%	1%	
Lutron	Energi Savr Node	QSN-4T16-S	100% - 0.1%	1%	
Lutron	GP Dimming Panels	TVM2 Module	99% - 0.1%	1%	
Lutron	Interfaces	GRX-TVI w/ GRX3503	100% - 0.1%	1%	
Sensor Switch	nIO	nIO EZ	100% - 0.1%	1%	
enlighted	Control Unit	CU-3E-1R	100% - 0.1%	1%	

D6B / DIML6B and D6F / DIML6F LED Dimming Compatibility Table

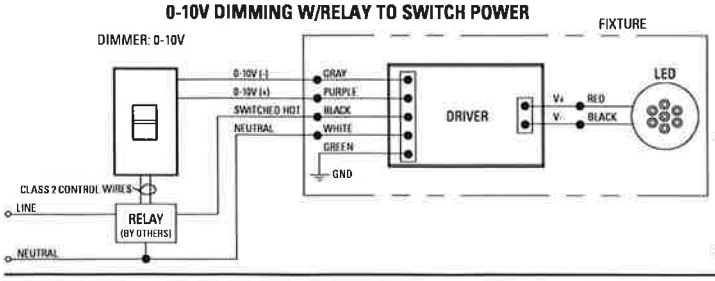
D6B / DIML6B and D6F / DIML6F are logarithmic-programmed dimming drivers for use with the dimming controls listed in the table below.
D6B / DIML6B = EldoLED SOLOdrive 0-10V control dims from 100% to 0.1% D6F / DIML6F = EldoLED ECOdrive 0-10V control dims from 100% to 1%

D6B / DIML6B and D6F / DIML6F Dimmer Compatibility Chart					
Manufacturer	Product	Part Number	Dimmed Light Output Range		Qty Fixtures Per Dimmer*
120V & 277V			DIML6B	6F	
Bush-Jaeger	Electronic potentiometer	2112U-101	100% - 0.1%	1%	Refer to manufacturer's dimmer load rating for maximum and minimum fixture quantities per dimmer. Enlighted compatible.
Jung	Electronic potentiometer	240-10	100% - 0.1%	1%	
Leviton	Illuma Tech dimmer	IP710-DLX	100% - 0.1%	1%	
Lightolier (Philips)	Momentum (120V ONLY)	ZP600FAM120	100% - 0.1%	1%	
Merten	Electronic potentiometer	5729	100% - 0.1%	1%	
Pass & Seymour	Titan	CD4FB-W	100% - 0.1%	1%	
Watt Stopper	Miro	DCLV1	100% - 0.1%	1%	
Synergy	Wallbox Dimmers	ISD BC	100% - 0.1%	1%	
ABB	i-bus	SD/S 2.16.1	100% - 0.1%	1%	
Crestron	Modules	GLX-DIMFLV8, GLXP-DIMFLV8	100% - 0.1%	1%	
Crestron	Green Light	GLPAC-DIMFLV4-, GLPAC-DIMFLV8-	100% - 0.1%	1%	
Crestron	Green Light Power Pack	GLPP-DIMFLVEX-PM, GLPP-1DIMFLV2EX-PM, GLPP-1DIMFLV3EX-PM	100% - 0.1%	1%	
Crestron	DIN Rail Analog Output Module	DIN-A08	100% - 0.1%	1%	
Crestron	DIN Rail 0-10V Fluorescent Dimmer	DIN-4DIMFLV4	100% - 0.1%	1%	
Crestron	iLux 0-10V Dimmer Expansion Module	CLS-EXP-DIMFLV	100% - 0.1%	1%	
enlighted	Control Unit	CU-3E-1R	100% - 0.1%	1%	

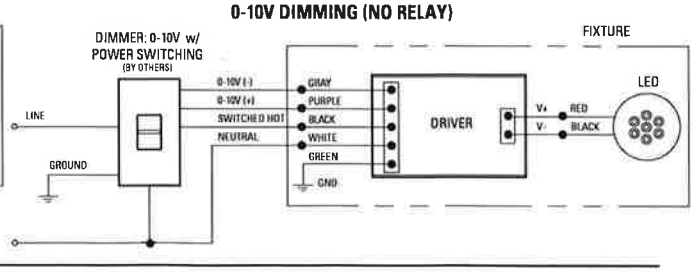
DIMMING DRIVER WIRING SCHEMES:

NOTES: Wiring diagrams are examples of typical installations intended to illustrate the number of wires that must be run to fixture. These diagrams are not intended to specify all equipment necessary for a given dimming circuit. Refer to specific dimmer manufacturer's documentation for details.

D6 / DIML6
0-10V DIMMING W/RELAY TO SWITCH POWER



D6 / DIML6
0-10V DIMMING (NO RELAY)



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I2-264-6 Revised 08/16/2019

USAI Lighting

COLOR SELECT®

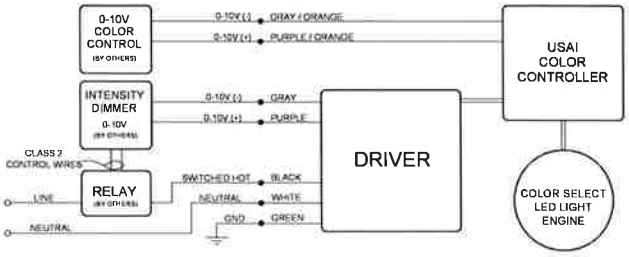
Covered By US Patents 8,581,520 and 8,456,109

INTENSITY DIMMING DRIVER COMPATIBILITY SELECTION GUIDE
DIML6A & 6B
DIML6E & DIML6F

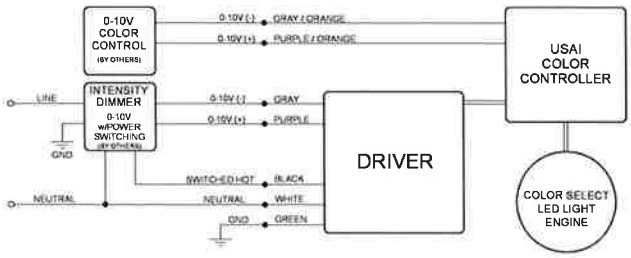
INTENSITY DIMMING DRIVER WIRING SCHEMES:

Note: Wiring diagrams are examples of typical installations intended to illustrate the number of wires that must be run to fixture. These diagrams are not intended to specify all equipment necessary for a given dimming circuit. Refer to specific dimmer manufacturer's documentation for details.

0-10V Dimming w/ Relay Switch to Power



0-10V Dimming



D6A / DIML6A and D6E / DIML6E LED Dimming Compatibility Table

D6A / DIML6A and D6E / DIML6E are linearly programmed dimming drivers for use with the dimming controls listed in the table below
D6A / DIML6A = EldoLED SOLOdrive 0-10V control dims from 100% to 0.1%
D6E / DIML6E = EldoLED ECOdrive 0-10V control dims from 100% to 1%

D6A / DIML6A and D6E / DIML6E Dimmer Compatibility Chart					
Manufacturer	Product	Part Number	Dimmed Light Output Range		Qty Fixtures Per Dimmer*
120V & 277V			DIML6A	6E	Refer to manufacturer's dimmer load rating for maximum and minimum fixture quantities per dimmer. Enlighted compatible.
Lutron	Diva	DVTV/NFTV with PP-20	99% - 0.1%	1%	
Lutron	Nova T	NTFTV with PP-20	99% - 0.1%	1%	
Lutron	Energi Savr Node	QSN-4T16-S	100% - 0.1%	1%	
Lutron	GP Dimming Panels	TVM2 Module	99% - 0.1%	1%	
Lutron	Interfaces	GRX-TVI w/ GRX3503	100% - 0.1%	1%	
Sensor Switch	nIO	nIO EZ	100% - 0.1%	1%	
enlighted	Control Unit	CU-3E-1R	100% - 0.1%	1%	

D6B / DIML6B and D6F / DIML6F LED Dimming Compatibility Table

D6B / DIML6B and D6F / DIML6F are logarithmic-programmed dimming drivers for use with the dimming controls listed in the table below
D6B / DIML6B = EldoLED SOLOdrive 0-10V control dims from 100% to 0.1% D6F / DIML6F = EldoLED ECOdrive 0-10V control dims from 100% to 1%

D6B / DIML6B and D6F / DIML6F Dimmer Compatibility Chart					
Manufacturer	Product	Part Number	Dimmed Light Output Range		Qty Fixtures Per Dimmer*
120V & 277V			DIML6B	6F	Refer to manufacturer's dimmer load rating for maximum and minimum fixture quantities per dimmer. Enlighted compatible.
Bush-Jaeger	Electronic potentiometer	2112U-101	100% - 0.1%	1%	
Jung	Electronic potentiometer	240-10	100% - 0.1%	1%	
Leviton	Illuma Tech dimmer	IP710-DLX	100% - 0.1%	1%	
Lightolier (Philips)	Momentum (120V ONLY)	ZP600FAM120	100% - 0.1%	1%	
Merten	Electronic potentiometer	5729	100% - 0.1%	1%	
Pass & Seymour	Titan	CD4FB-W	100% - 0.1%	1%	
Watt Stopper	Miro	DCLV1	100% - 0.1%	1%	
Synergy	Wallbox Dimmers	ISD BC	100% - 0.1%	1%	
ABB	i-bus	SD/S 2.16.1	100% - 0.1%	1%	
Crestron	Modules	GLX-DIMFLV8, GLXP-DIMFLV8	100% - 0.1%	1%	
Crestron	Green Light	GLPAC-DIMFLV4-, GLPAC-DIMFLV8-	100% - 0.1%	1%	
Crestron	Green Light Power Pack	GLPP-DIMFLVEX-PM, GLPP-1DIMFLV2EX-PM, GLPP-1DIMFLV3EX-PM	100% - 0.1%	1%	
Crestron	DIN Rail Analog Output Module	DIN-A08	100% - 0.1%	1%	
Crestron	DIN Rail 0-10V Fluorescent Dimmer	DIN-4DIMFLV4	100% - 0.1%	1%	
Crestron	iLux 0-10V Dimmer Expansion Module	CLS-EXP-DIMFLV	100% - 0.1%	1%	
enlighted	Control Unit	CU-3E-1R	100% - 0.1%	1%	

USAI®

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I2-228-6 Revised 08/28/2019

HUNZA™ PURE OUTDOOR LIGHTING

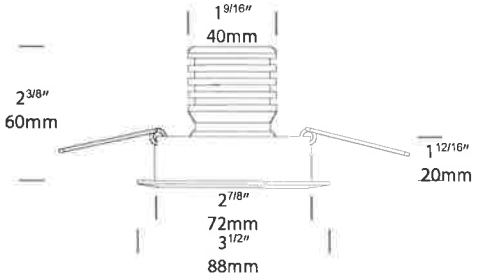
Tilting Eave 6w
PURE LED

PROJECT:
TYPE:
SOURCE:
NOTES:

SPECIFICATIONS

CE c UL us LISTED

LED Chip	Cree XHP-50-2 Plug and Play field replaceable LED board
Luminaire Output	600 Lumens @ 1050mA (6 watts), 420 Lumens @ 700mA (4 watts), 240 Lumens @ 350mA (2 watts), delivered from luminaire with unobstructed beam.
Lumens Per Watt	100 Lumens @ 6 watts minimum, delivered from luminaire with unobstructed beam
CRI (3000K)	90+
Colour Temperatures	2700K, 3000K, 4000K
Beam Angles	15, 25, 38, 60
Ingress Protection	IP66
Warranty	Electronics = 5 years Flange Cop / SS = 10 years Body Aluminium = 5 years
Standards	AS/NZS 61046 cUL 2108 CSA C22.2 No. 250.0-08 CE



PRODUCT CONFIGURATION

Please fill in appropriate codes into boxes provided

Cat. No. EAVE/T6/L

Luminaire	Power	Material/ Finish	Beam	Colour	Accessories				
EAVE/T6/L									

Power

S	SERIES, REMOTE DRIVER
D3	12VAC, 2W INTEGRAL
D7	12VAC, 4W INTEGRAL
D10	12VAC, 6W INTEGRAL
DC7	9-36VDC, 700mA

SERIES, REMOTE DRIVER REQUIRED:
Constant current driver
Individual fixtures require 6vdc @ 1050mA maximum

12VAC INTEGRAL DRIVER:
Hunza integrated plug and play driver (included)
Input:9-15VAC, 7watt total
Output: 6vdc @ D3=350mA, D7=700mA, D10=1050mA
(1050mA limited to ≤ 40°C (104°F) ambient temperature in stainless steel)

24VAC INTEGRAL DRIVER:
Hunza integrated plug and play driver (included)
Input: 9-36vdc, 7 watt total
Output: 6vdc nominal, 700mA

Material/ Finish

ALUMINIUM

EBK	BLACK
EBZ	BRONZE
EOGR	OLIVE GREEN
EWH	WHITE
EWB	WHITE BIRCH
EDG	DARK GREY
ESTAR	SILVER STAR
ECT	CORTEN
COP	SOLID COPPER
SS	STAINLESS STEEL

Beam

15	15°
25	25°
38	38°
60	60°

Colour

2	2700K
3	3000K
4	4000K

Accessories

LF	FROSTED LENS
CJK	CABLE JOINT KIT

Click here for 240v Remote Power Supply Guidance Charts

Click here for USA Remote Power Supply Guidance Charts

HUNZA™ PURE OUTDOOR LIGHTING

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Ph: +64-9-528 9471 Fax: +64-9-528 9361 hunza@hunza.co.nz www.hunzalighting.com

INTERNATIONAL CONTACTS:
http://www.hunzalighting.com/contact.php

LUMINAIRE CONSTRUCTION

CNC machined from one of the following metals:

Aluminium:
Body: 45mm (1 3/4") anodised aluminium
Flange: high corrosion resistant solid aluminium 88mm (3 1/2") rod with chromate substrate and high UV resistant polyester powder coat.
Colours:
Black, Bronze, Silver Star, White, White Birch, Olive Green, Dark Grey, Corten.

Copper:
Flange: solid copper 88mm (3 1/2") rod.

316 Stainless Steel:
Flange: 88mm (3 1/2") electro polished 316 stainless steel.

Step Lens:
8mm extra clear, low iron, glass lens.
Lifetime Warranty.

Gaskets:
Silicone, iron impregnated 220°C (428°F)

Mounting:
This fitting is designed to fit through a 72mm (2") holes and be fixed into position by two spring clips.

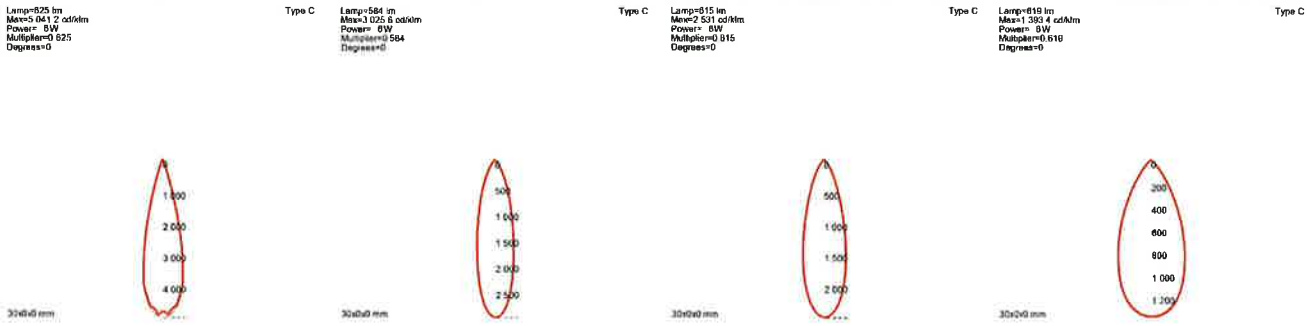
Luminaire Weight:
Low voltage
Alum: 0.300kg (11oz)
Cop: 0.800kg (1lb 12oz)
SS: 0.750kg (1lb 10oz)

ACCESSORIES

BEAM ANGLES

High efficiency PMMA TIR lenses. Field replaceable

IES files available for download: hunzalighting.com/downloads

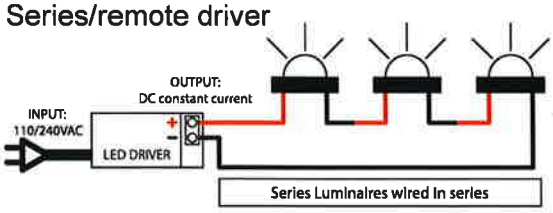


15° FWHM TIR | 25° FWHM TIR | 38° FWHM TIR | 60° FWHM TIR

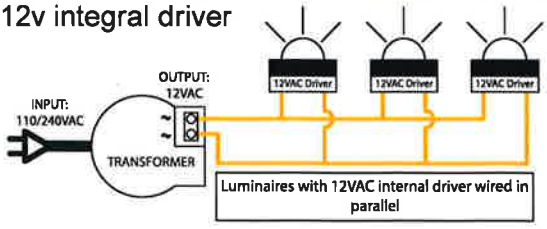
WIRING GUIDE

Available for download: hunzalighting.com/downloads

Series/remote driver



12v integral driver



Diagrams are a guide only, wire colours and polarity may change depending on fixture and country

Specifications may change without notification Aug 2017

HUNZA™ PURE OUTDOOR LIGHTING

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INTERNATIONAL CONTACTS:
http://www.hunzalighting.com/contact.php

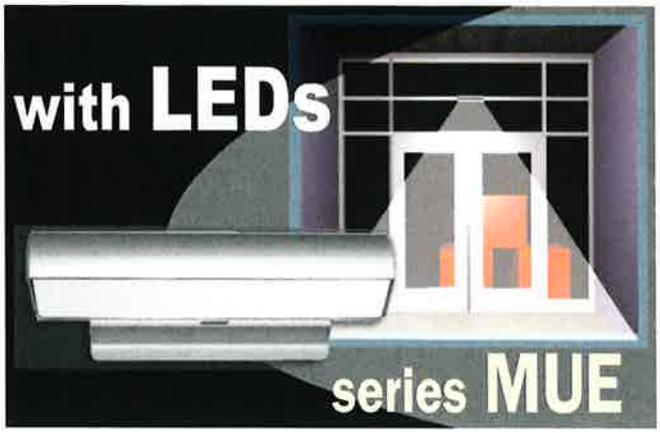
Moonlite LED®
LED Outdoor Egress Emergency with Night Lighting Option

Mullion Mount Emergency Light
Series MUE

TYPE JOW-EMERGENCY

MUE.5.18.15

The Brightest Idea is Emergency Lighting



GENERAL DESCRIPTION

Operating in emergency mode or optional normal- on, this fixture is designed to mount directly on structural mullion beams used in typical glass-fronted entrances, with vertical surface as small as 2". This fixture has full 90° cut-off and will provide efficient emergency lighting in front of egress doorways, or along extended pathways.

CONSTRUCTION

- Rugged extruded aluminum housing with stainless hardware is corrosion proof.
- Wet location listed UL 924. Certified IP66.
- Uniform, high brightness lighting over the path of egress.
- Full 90° cut- off.
- Three versions are available:

RE= Central Battery System Series CBS or other qualified source 12V- 24 VDC.
BB= Battery backup from Remote Battery Supply Series RPS.
AC= 120/ 277 VAC supply.

ELECTRONICS

- Dual operation from either a battery or optional normally on power source.
- Lamps are connected in parallel-series strings, as required to meet requirements of NEC and Life Safety Codes. Lighting continues even after failure of One lamp or circuit.
- LED color temperature standard 5300K; available color temperatures from 2900K, 3200K, to 3800K.

ENERGY EFFICIENT OPERATION

- Dual function operation for optional normally on night or security lighting as well as emergency lighting.
- Very low power consumption in optional night/ security mode. The security lighting circuit is independent of emergency lighting and may be switched manually, by an exterior photocell, or other automatic means.
- Over 50,000 hour lamp life in normal use.
- IES photometric data available for all models.

CODES

- Manufactured and tested to UL Standard 924 and NFPA Life Safety Code 101.

WARRANTY

- 5 year total customer satisfaction warranty. For Details see product catalog technical data section.

DESIGNED & MADE IN THE USA

Intertek
CONFORMS TO UL 924/ CSA 22.2 #141

FIXTURE SCHEDULE

MODEL	CATALOG NO
APPROVAL	JOB INFORMATION

Signtex Inc
LIGHTING
SPECIFIED EMERGENCY LIGHTING

Moonlite LED®
LED Outdoor Egress Emergency with Night Lighting Option

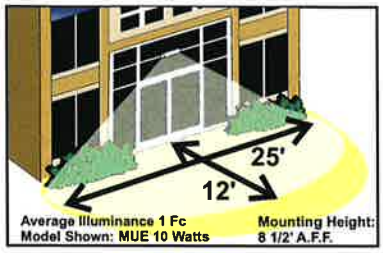
Mullion Mount Emergency Light
Series MUE

MUE.5.18.15

SUGGESTED SPECIFICATIONS:

Supply and install the MOONLITE LED Series MUE Mullion Mount emergency lighting fixture manufactured by Signtex Lighting Inc. The MUE assembly shall be listed for installation in wet locations in compliance with UL 924 and IP66 standards and shall be capable of operating from Signtex remote power supply Series RPS, the Signtex central battery system Series CBS, or from other remote power sources supplying 12-24 VDC or VAC. Upon loss of AC building power, emergency models shall operate for a minimum of 90 minutes in compliance with UL Standard 924 and NFPA LSC 101.

SPACING GUIDE

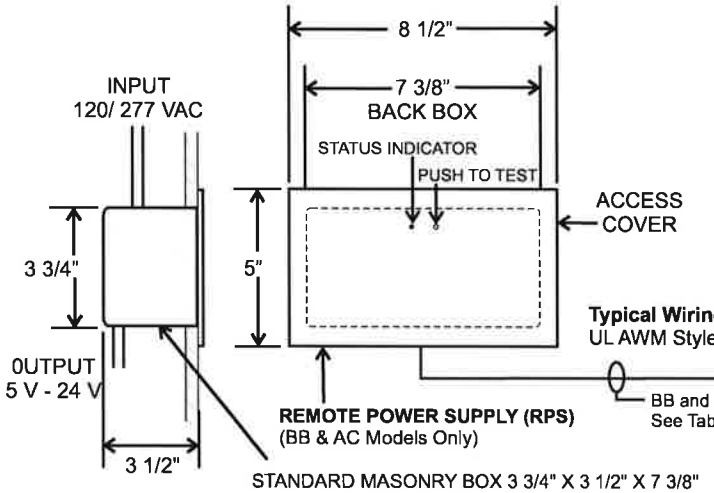


NOTE: FOR REFERENCE ONLY. STANDARD REFLECTANCES 80/50/20. SIGNTEX IS NOT RESPONSIBLE FOR SPECIFIC CONDITIONS THAT MAY ALTER THE RESULTS.

CONTACT SIGNTEX FOR LAYOUT ASSISTANCE

Code Compliant Emergency lighting layouts provided free of charge!

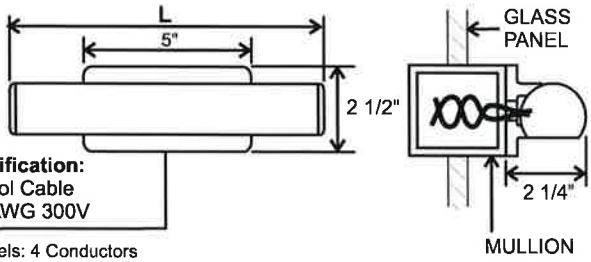
MOUNTING DATA & DIMENSIONS:



STANDARD MASONRY BOX 3 3/4" X 3 1/2" X 7 3/8"
(SUPPLIED BY OTHERS)

TYPICAL STOCK MODELS:
CROUSE HINDS #TP693
RACO # 698

WALL MOUNT



TOP MOUNT

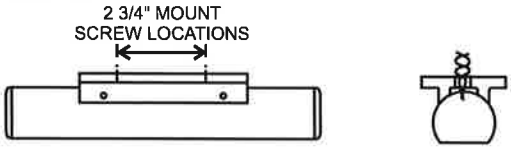


TABLE 1

MAXIMUM WIRING LENGTH FROM RPS TO FIXTURE

WIRING SIZE AWG	LENGTH (FT) MUEBB
#18	25
#16	50
#14	75
#12	125

LENGTH TABLE

POWER	L
10 Watts	10"
20 Watts*	19"

*RE & AC Models Only

SECURITY LIGHTING CONTROL

RE Models: Requires SEC Option 'S' with CBL

BB Models: Requires Option '-SB120' for connection to 120 VAC
Requires Option '-SD277' for connection to 277 VAC

BB-DG Models: Requires Option '-SD' for connection to 120/ 277 VAC

RPS SELF- TEST DIAGNOSTIC FUNCTIONS

BB MODELS WITH DG FUNCTION

STATUS	LED DISPLAY
NORMAL FULL CHARGE	GREEN ON
NORMAL FAST CHARGE	ORANGE ON
FAILED BATTERY	RED FLASH FAST
FAILED LAMP	GREEN FLASH
FAILED TRANSFER	ORANGE FLASH
FAILED CHARGER	RED FLASH SLOW

FIXTURE ORDERING INFORMATION: *EXAMPLE:* MUEBB10AW-DG

MUE	BB	10	A	W	-	-DG
MODEL SERIES	**OPERATION**	**POWER**	**HOUSING COLOR**	**MOUNT**		**OPTIONS**
MUE	RE= Central Battery or other 12- 24 VDC Remote Source BB= Battery Backup (Includes RPS) AC= No Battery (Includes RPS)	10= 10 Watts Emergency & Normal On Power 20= 20 Watts Emergency & Normal On power (RE & AC Models Only)	W= Satin White A= Aluminum B= Dark Bronze X= Custom	T= Top W= Wall		DG= Self- Test Diagnostics (BB Models Only) SB120= Security Lighting with Control Switch for Standard BB Operation (120V) SD277= Security Lighting with Control Switch for Standard BB Operation (277V) SD= Security Lighting with Control Switch for BB Operation with DG option (120/ 277V) CW1= Custom Window Filter- 3800K CW2=Custom Window Filter- 3200K CW3=Custom Window Filter- 2900K DAC= Dual AC Input 2HT= 2" Canopy Height 5HT= 5" Canopy Height

SUITABLE FOR WET LOCATIONS

AMBIENT TEMPERATURE LIMITS:

-40° C to +50° C

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DISTRIBUTOR:

Specifications and Dimensions subject to change without notice.