



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

23 December 2019

Juliet Walker, Planning Director  
City of Portsmouth  
1 Junkins Avenue  
Portsmouth, NH 03801

**RE: Request for TAC Site Plan Approval at 60 Penhallow Street, Tax Map 107 / Lot 27**

Dear Ms. Walker:

On behalf of McNabb Properties, LTD we hereby submit the attached and enclosed revisions for TAC Approval for the Brick Market Project at 60 Penhallow Street. This letter is intended to address email comments received on December 3, 2019, as discussed at the TAC Meeting on the same day. Comments from the email, along with responses **in bold** are listed below:

1. Trip Generation Summary Letter

- i. It was assumed that no employees at the site would take public transportation, so the trip generation numbers are likely conservative, or higher than expected. **Agreed. The Updated Trip Generation Summary (UTGS) indicated this in the "Transit Trips" section.**
- ii. 30% of the office trips (14 trips) are assumed to use Sheafe Street to access the site. While this is the shortest route to the site for these trips, it is not desirable to add traffic to this very narrow, two-way street. **The Developer is willing to place a condition in the office lease(s) that employees must be directed not to utilize Sheafe Street to access the parking garage. See UTGS Page 6, "Trip Distribution".**
- iii. The restaurant trips are all assumed to park in the Hanover Garage. This presents a worst case for the intersections in proximity to the garage. If they park elsewhere, the impacts could be different. **The UTGS distributes Restaurant Trips to both the Hanover and Portwalk Garages.**
- iv. There are some numbers missing from Figures 2, 4A, 4B, and 4C. **The requested numbers have been added.**
- v. On Figures 4A, 4B, and 4C, the total volume of entering and exiting traffic should be shown in the Hanover Garage box and the Site box, so it is clear as to where the traffic is heading. **See updated Figures 4A and 4B.**
- vi. The peak traffic generation period for the project will be the Saturday midday peak hour, which was not studied in the City's Downtown

Traffic Model. While the Model can be used for analysis of the PM peak hour, a separate study will be needed for the Saturday midday peak hour for any intersection that will see an increase of at least 100 vehicles, unless you can show that the weekday pm peak is the overall critical peak hour. **The UTGS confirms that the weekday PM peak hour is the overall critical peak hour.**

2. Driveway apron on Penhallow should be asphalt, not cobblestone, within the City street layout. **The reference to Cobblestones has been removed from Sheet L1 (formerly L2).**
3. Vehicles will block the sidewalk on Penhallow when entering the building, waiting for the gate/garage door to open. Placing the gate 20 feet from the sidewalk would allow room for the vehicle to pull in without blocking the sidewalk. **The garage door is set back 16 feet from the back of the sidewalk (tip downs) at Penhallow Street. We believe this is sufficient room and that vehicles will not block pedestrian sidewalk access.**
4. A flashing warning sign/signal should be installed at the driveway to alert pedestrians when a vehicle is exiting from the garage. **Note 13 has been added to Sheet C3 to address this issue.**
5. It appears that there is a column in the handicap parking access aisle, next to space 19. **The revision to the van space may alleviate this concern; if not we will request that the column be reviewed for a relocation.**
6. It would be better to have the van use space 20, as the wheelchair lifts in a van are typically on the passenger side of the van. **The Van Space has been assigned to Space 20. See Sheet AO.01A.**
7. How will the tandem parking spaces on level 2 be used? Will they be assigned to the same tenant? **Yes.**
8. The developer is increasing stormwater runoff slightly, about 4-10% from existing depending on the storm. If there is no opportunity to mitigate this increase onsite, the Developer should consider mitigating this via an off-site municipal drainage improvement such as adding storm drainage to upper Daniel Street. **The developer is willing to contribute to off-site drainage improvements on Daniel Street. See Sheet P1.**
9. It is not clear whether the developer is intending for the period lights on Daniel to stay or go. There is a note about returning parking meters after construction, a similar note should refer to lighting. **The Demolition Plan has been updated to require storage of the lights during construction. The requested Note about replacing has been added to Sheet C3.**
10. There are no period lights being shown on Penhallow St despite the wider sidewalk width. Period lights should be added with the final design layout approved by the City. Details need to be added to plan set. **The requested lights have been added to Sheet C3, and the Detail added as Detail L on Sheet D3.**
11. Developer should identify a space for refuse containers on the plan. They are needed in this vicinity and get used quite often. **Sheet C3 shows the location(s) of three on-site refuse containers.**

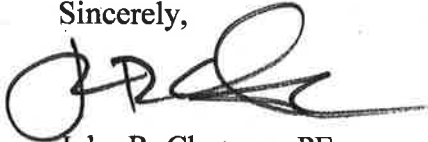


12. They are planning on relocating pole 1/9 on Daniel, this is a larger pole with multiple transformers and its proposed location will impact the lighting conduit already in place. **The revised plans show proposed elimination of the overhead wires and associated poles in Daniel Street; See Sheet P1. Utility Plan C4 notes the re-connection of underground conduits (as required).**
13. They are showing a pole on Penhallow to be removed by Consolidated with no explanation. Does the line the pole is holding go away entirely? **The line will be relocated to the poles on the other side of Penhallow Street, per discussion with Consolidated Communications.**
14. Sanborn map from 1920 shows up to 11 structures located on this lot. There should be a note that any services to these buildings encountered should be abandoned per the requirements of DPW. Since Penhallow has been reconstructed, this will likely only be an issue on the Daniel Street side. **See Note 10 on Sheet C4.**
15. They are planning a 3" domestic service tapped off their new fire line both located on the antique main on Daniel Street. If at all possible, this should get routed to Penhallow's new main instead. If connection to Penhallow is not possible, main replacement on Daniel may be required. The domestic service should be a size commonly available and both the fire and domestic lines are to be tapped to the main directly. **Sheet C4 has been revised to show a 2 inch Domestic and a 6 inch Sprinkler line tapping the water main in Penhallow Street.**
16. 6" sewer connection is planned on Penhallow, with a rubber saddle. This shall be changed to a pvc wye cut into the main with solid repair couplings. **See revised Detail P on Sheet D3.**
17. Plans show a new 24" HDPE drain pipe being installed between new building and old police station building then connecting to 18" pipe in Penhallow. This pipe is likely oversized and would require the manhole in Penhallow to be 5' in diameter. **The pipe does work as an 18 inch; it has been re-labelled.**
18. There was a 6" HDPE drain connection that was installed for this parcel near the south east corner that will need to be removed. **See Note 10 on Sheet C4.**
19. Catch basin liners should be used whenever catch basins are constructed. **See Detail D on Sheet D1.**
20. Pavement cross section shown in detail E is odd use of mix thicknesses. **Detail E on Sheet D2 has been revised.**
21. Detail E (F), only cast iron ADA tactile panels will be acceptable. All final details shall be approved by the Department prior to installation. **Detail F on Sheet D2 has been revised.**
22. Detail K shows 5" granite curbing where the standard is 6". **Detail K on Sheet D2 has been revised.**
23. Drain manholes in the ROW shall have hinged covers type Ergo XL. **Detail J on Sheet D2 has been revised.**
24. Pipe connections in all structures shall be booted and the space between the pipe and manhole shall be parged with mortar. **Detail D on Sheet D1 and Detail J on Sheet D2 have been revised.**

25. Sewer manhole detail is shown (incorrectly, wrong cover type) but none are evident on the utility plan. **Detail has been replaced with the Light Detail.**
26. Pipe trench detail N should call out fabric between the bedding stone and sand for all pipes greater than 12". **Detail N on Sheet D3 has been revised.**
27. Excavation for 2-stories beneath ground will require support of City infrastructure. **Noted; see Portsmouth Approval Conditions, Note 4 on Sheet C3.**
28. Basement foundation systems shall be water tight. **See Portsmouth Approval Conditions, Note 6 on Sheet C3.**
29. Excavation for foundation will require dewatering permits, soil testing should be completed to determine if contamination procedures should be planned for. **Developer is aware of the requirements and will follow all protocols.**
30. Gas service trench detail shows 42" of cover. This is not typical and will likely cause issues with other utilities. Change depth to standard 3' depth at least in ROW. **Detail O on Sheet D3 has been revised.**
31. Bricks in the sidewalk detail shall be called out to be Pinehall Pavers, remove the note about building bricks. **Detail I on Sheet D2 has been revised.**
32. Community Space Easement – The final community space easements need to be approved by the legal department. Importantly, three properties will be used to establish the minimum required community space. Note that the community space was required under a Condition Use Permit issued by the Planning Board to approve a building footprint of over 15,000 SF. **Agreed.**
33. Screen Walls and Murals – Note that these items have not yet been reviewed by the Historic District Commission (HDC) and will be reviewed under an Administrative Approval process once the wall and fence details have been submitted to the HDC. **Agreed.**
34. All proposed off-site improvements to the streetscape that are unrelated to the proposed development should be shown on separate plans, as these are not the purview of the Planning Board's site plan review approval. **Sheets P1 and P2 have been created for this purpose.**
35. Building Canopies – It appears that several of the proposed roof canopies overhang the public right-of-way. If so, similar to the projecting bays on 25 Maplewood Avenue, an easement deed/license will be required from the city prior to construction. **Agreed.**
36. Landscape Plan – Are the proposed tree planters along the proposed alleyway off of Daniel Street proposed to be raised? If not, consideration should be given to increase the spacing between the planter and the building wall. **Planters are raised – see Details on Sheets L3 and L4.**
37. Transformer Pad – To reduce the unsightliness and obstruction to pedestrian circulation, can the proposed transformer pad on the Daniel Street alleyway be located any closer to either the existing or proposed building walls? **Transformer removed from alleyway; to be placed in right of way.**
38. Building Elevations – Note that the HDC approved the building design on 11-13-19 with stipulations. The stipulations appear to be shown on the revised elevations. **Agreed.**

We look forward to the TAC Committee's review of this submission. If there are any questions or comments please feel free to reach out to me.

Sincerely,

A handwritten signature in black ink, appearing to read 'J. Chagnon', with a large, stylized initial 'J' and a long horizontal flourish extending to the right.

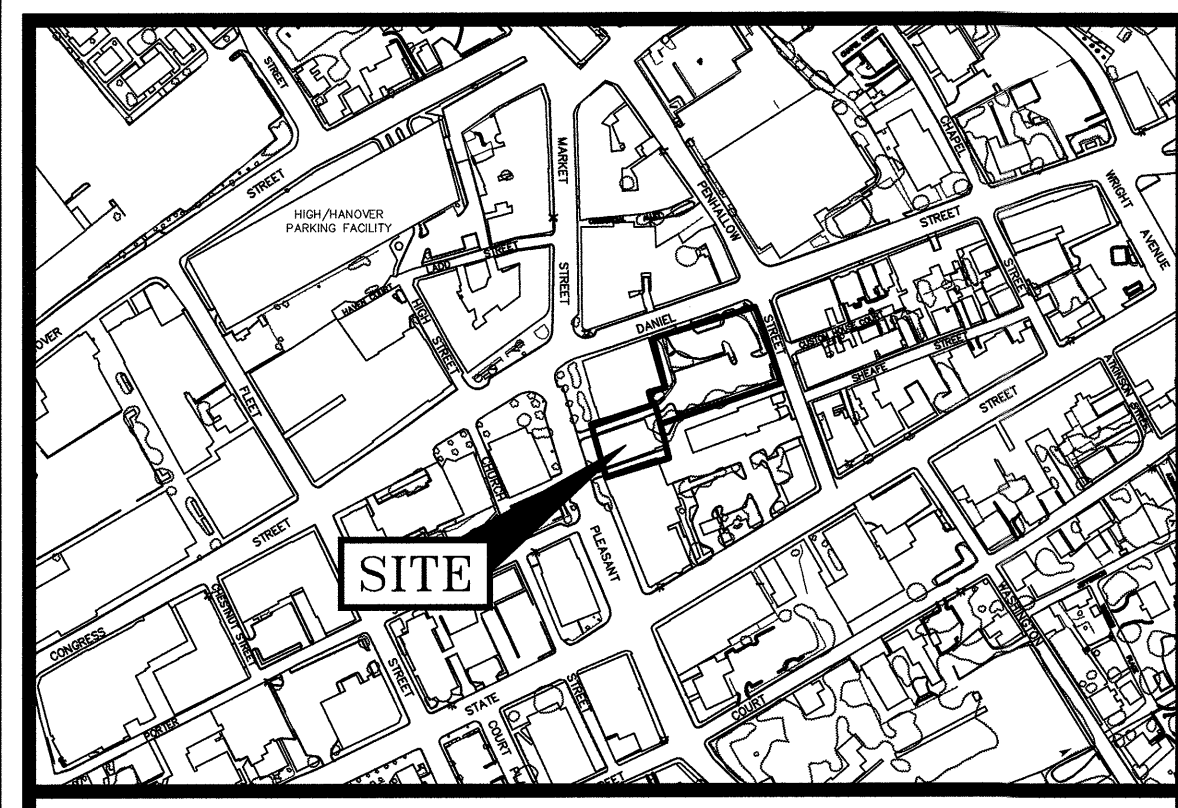
John R. Chagnon, PE

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









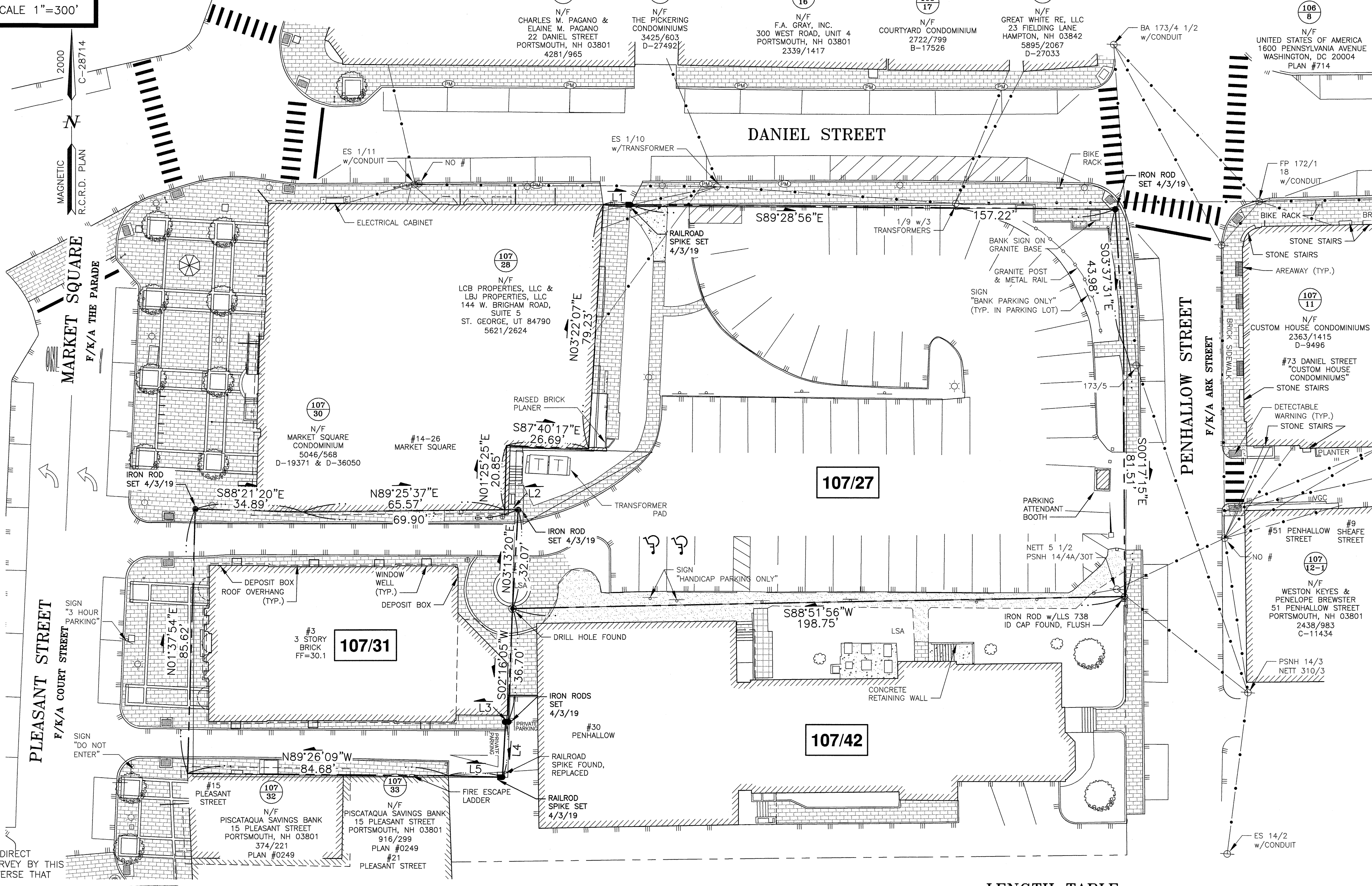
LOCATION MAP SCALE 1"=300'

LEGEND:

- N/F NOW OR FORMERLY
- RP RECORD OF PROBATE
- RCD ROCKINGHAM COUNTY
- 21 REGISTRY OF DEEDS
- 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
- SEWER LINE
- GAS LINE
- STORM DRAIN
- WATER LINE
- UNDERGROUND ELECTRIC
- OVERHEAD ELECTRIC/WIRES
- CONTOUR
- SPOT ELEVATION
- EDGE OF PAVEMENT (EP)
- WOODS / TREE LINE
- UTILITY POLE (w/ GUY)
- GAS SHUT OFF
- WATER SHUT OFF/CURB STOP
- GATE VALVE
- HYDRANT
- METER (GAS, WATER, ELECTRIC)
- CATCH BASIN
- TELEPHONE MANHOLE
- SEWER MANHOLE
- DRAIN MANHOLE
- 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
- EP EDGE OF PAVEMENT
- F.F. FINISHED FLOOR
- INV. INVERT
- TBM TEMPORARY BENCHMARK
- TYP. TYPICAL
- VGC/SGC VERTICAL/SLOPED GRANITE CURB
- CCB CAPE COD BERM
- LSA LANDSCAPED AREA

PLAN REFERENCES:

- 1) PLAN OF LAND FOR INDIAN HEAD BANK OF PORTSMOUTH, DANIEL & PENHALLOW STREETS, PORTSMOUTH, NH. PREPARED 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 1937. R.C.R.D. PLAN #02644.
- 7) PLAN OF PROPERTIES ON STATE AND PLEASANT STS., PORTSMOUTH, NH. 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 PENHALLOW 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 1818 HIGHWAY 395 MINDEN, NV 89423. 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. BROUSSEAU GST EXEMPT TRUST AND HELEN S. BROUSSEAU 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. BROUSSEAU GST EXEMPT TRUST AND HELEN S. BROUSSEAU 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, SURVEYOR DATED JULY 1, 1864. R.C.R.D. PLAN #0019.
- 18) SUBDIVISION PLAN FOR LI JUNE CHEN AND SHANG 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, 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.

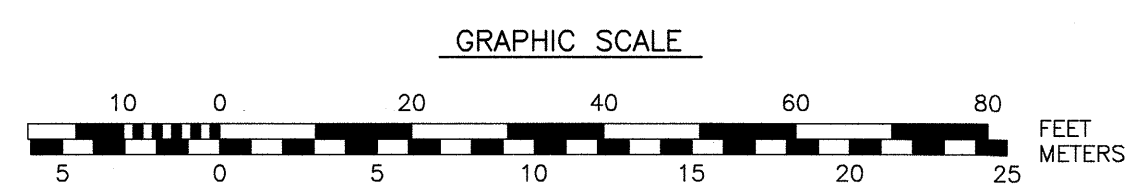
NO.	DESCRIPTION	DATE
4	ISSUED WITH 60 PENHALLOW	11/18/19
3	MISCELLANEOUS REVISIONS	10/7/19
2	ISSUED WITH TAC SUBMISSION	7/15/19
1	MONUMENTS SET	4/3/19
0	ISSUED FOR COMMENT	3/27/19

**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

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  
DATE 11/18/2019



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'





**AMBIT ENGINEERING, INC.**  
Civil Engineers & Land Surveyors

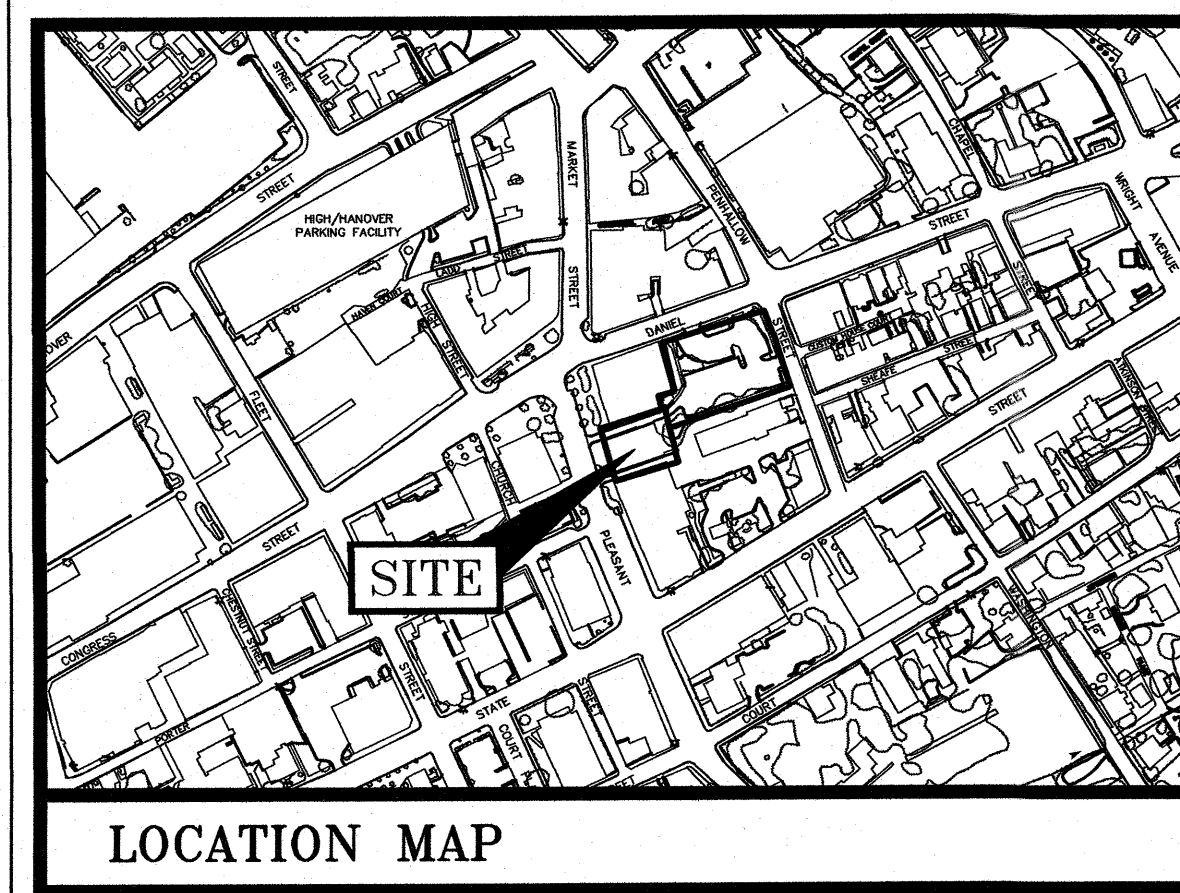
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PORTSMOUTH, NH 03801  
5990/1701 (LOT 31) & 5990/1703 (LOT 27)  
C-7121, C-8101, & D-41408
- 3) PARCEL IS NOT IN A SPECIAL FLOOD HAZARD AREA AS SHOWN ON FIRM PANEL 33015C0259E. EFFECTIVE DATE MAY 17, 2005.
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- 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
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

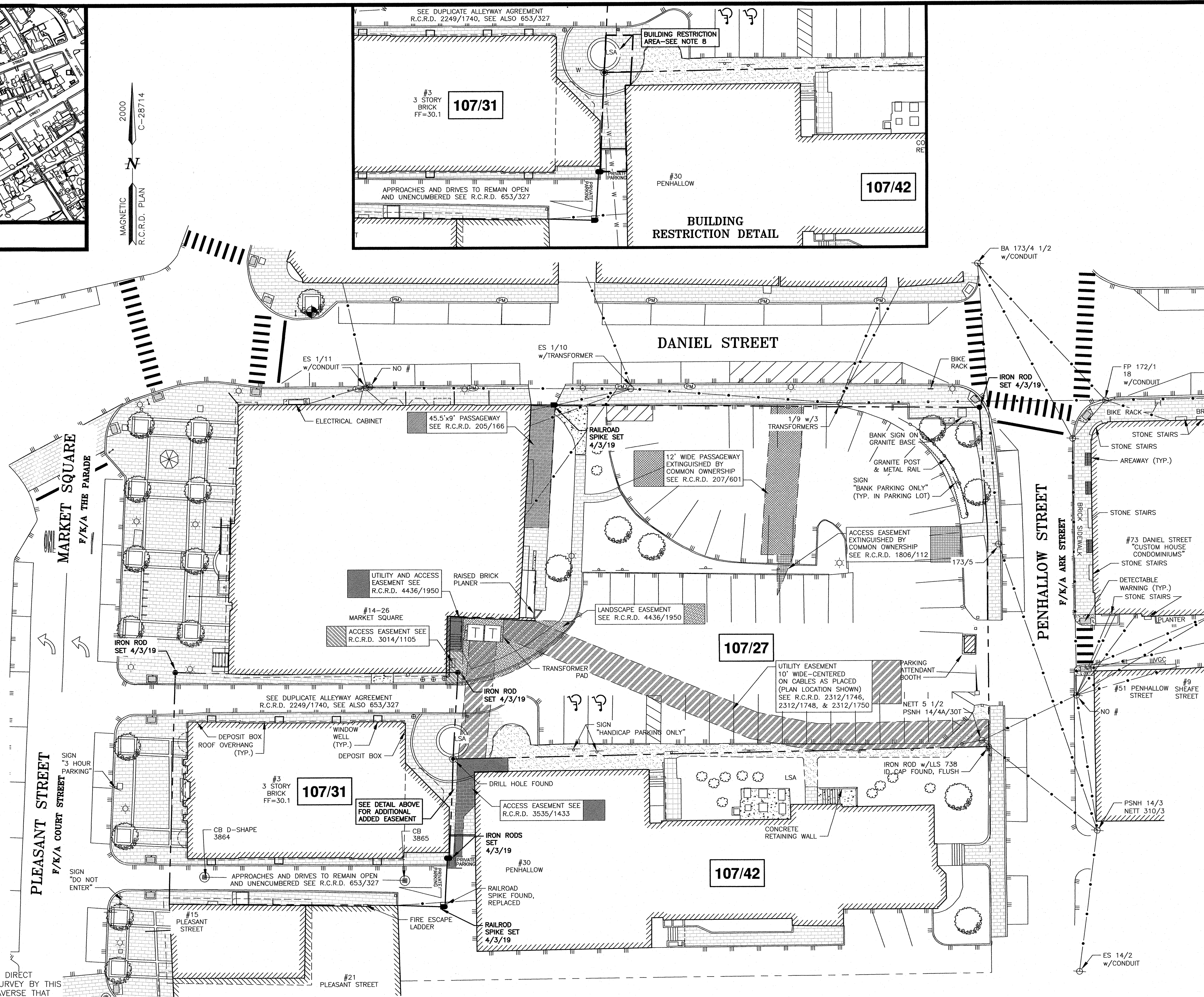
**EASEMENT PLAN**  
**TAX MAP 107 -**  
**LOTS 27 & 31**  
LAND OF:  
**DAGNY TAGGART, LLC**  
PROPERTY LOCATED AT:  
**3 PLEASANT STREET &**  
**60 PENHALLOW STREET**  
CITY OF PORTSMOUTH  
COUNTY OF ROCKINGHAM  
STATE OF NEW HAMPSHIRE



**LOCATION MAP**

**LEGEND:**

- |                 |                              |
|-----------------|------------------------------|
| N/F             | NOW OR FORMERLY              |
| RP              | RECORD OF PROBATE            |
| RCRD            | ROCKINGHAM COUNTY            |
|                 | REGISTRY OF DEEDS            |
| 11/27           | MAP 11 / LOT 21              |
| <b>BOUNDARY</b> |                              |
| ---             | 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            |
| ---             | SEWER LINE                   |
| ---             | GAS LINE                     |
| ---             | STORM DRAIN                  |
| ---             | WATER LINE                   |
| ---             | UNDERGROUND ELECTRIC         |
| ---             | OVERHEAD ELECTRIC/WIRES      |
| ---             | CONTOUR                      |
| ---             | SPOT ELEVATION               |
| ---             | EDGE OF PAVEMENT (EP)        |
| ---             | WOODS / TREE LINE            |
| ---             | UTILITY POLE (w/ GUY)        |
| ---             | GAS SHUT OFF                 |
| ---             | WATER SHUT OFF/CURB STOP     |
| ---             | GATE VALVE                   |
| ---             | HYDRANT                      |
| ---             | METER (GAS, WATER, ELECTRIC) |
| ---             | CATCH BASIN                  |
| ---             | TELEPHONE MANHOLE            |
| ---             | SEWER MANHOLE                |
| ---             | DRAIN MANHOLE                |
| ---             | 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      |
| PCP             | REINFORCED CONCRETE PIPE     |
| VC              | VITRIFIED CLAY PIPE          |
| EL              | ELEVATION                    |
| EP              | EDGE OF PAVEMENT             |
| F.F.            | FINISHED FLOOR               |
| INV.            | INVERT                       |
| TBM             | TEMPORARY BENCHMARK          |
| TYP.            | TYPICAL                      |
| VGC/SGC         | VERTICAL/SLOPED GRANITE CURB |
| CCB             | CAPE COD BERM                |
| LSA             | LANDSCAPED AREA              |

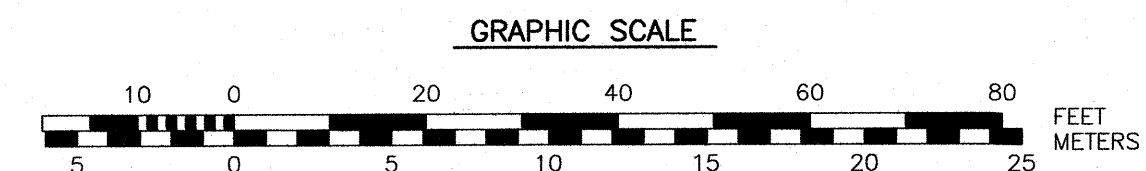
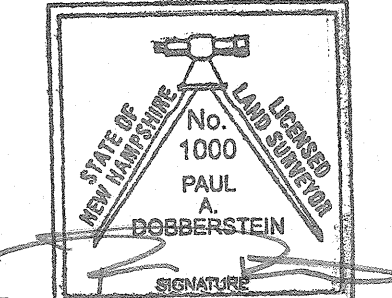


I CERTIFY THAT THIS PLAN WAS PREPARED UNDER MY DIRECT SUPERVISION, THAT IT IS THE RESULT OF A FIELD SURVEY BY THIS OFFICE AND HAS AN ACCURACY OF THE CLOSED TRAVERSE THAT EXCEEDS THE PRECISION OF 1:15,000.

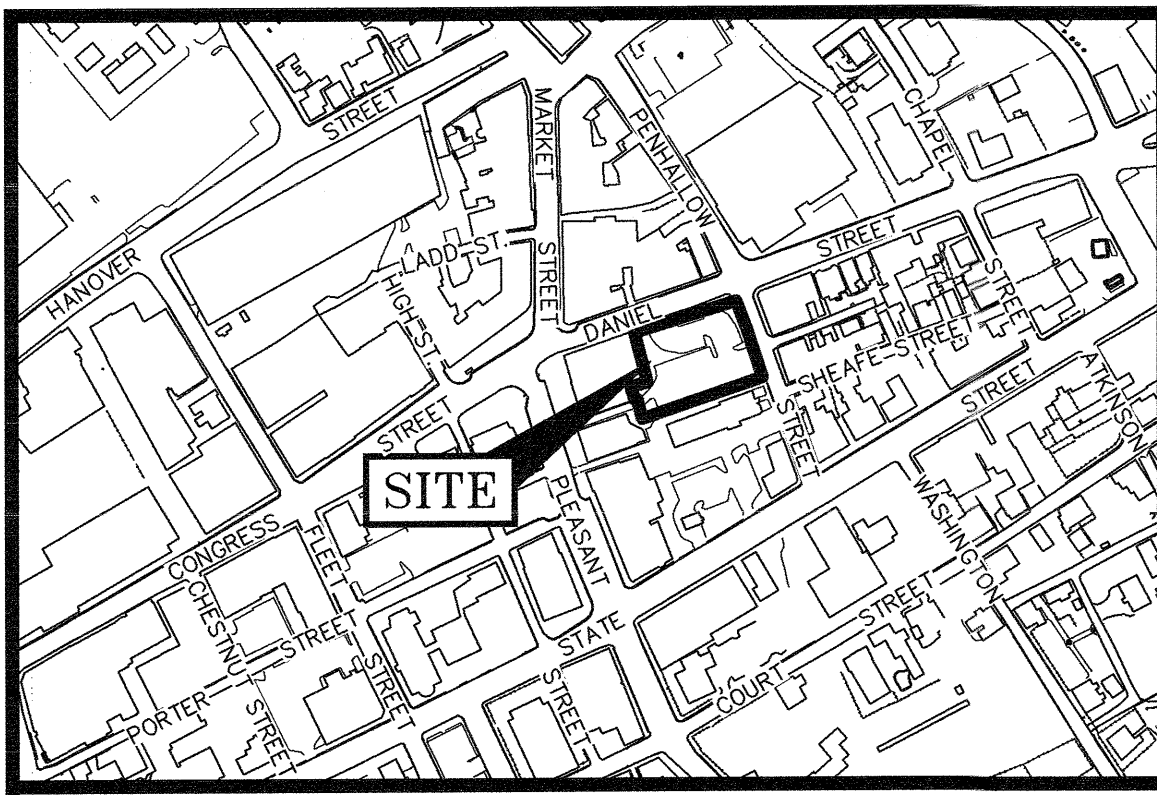
I CERTIFY THAT THIS SURVEY PLAT IS NOT A SUBDIVISION PURSUANT TO THIS TITLE, AND THAT THE LINES OF STREETS AND WAYS SHOWN ARE THOSE OF PUBLIC OR PRIVATE STREETS OR WAYS ALREADY ESTABLISHED AND THAT NO NEW WAYS ARE SHOWN.

PAUL A. DOBBERSTEIN, LLS #1000

DATE 11/18/2019







LOCATION MAP SCALE 1"=300'

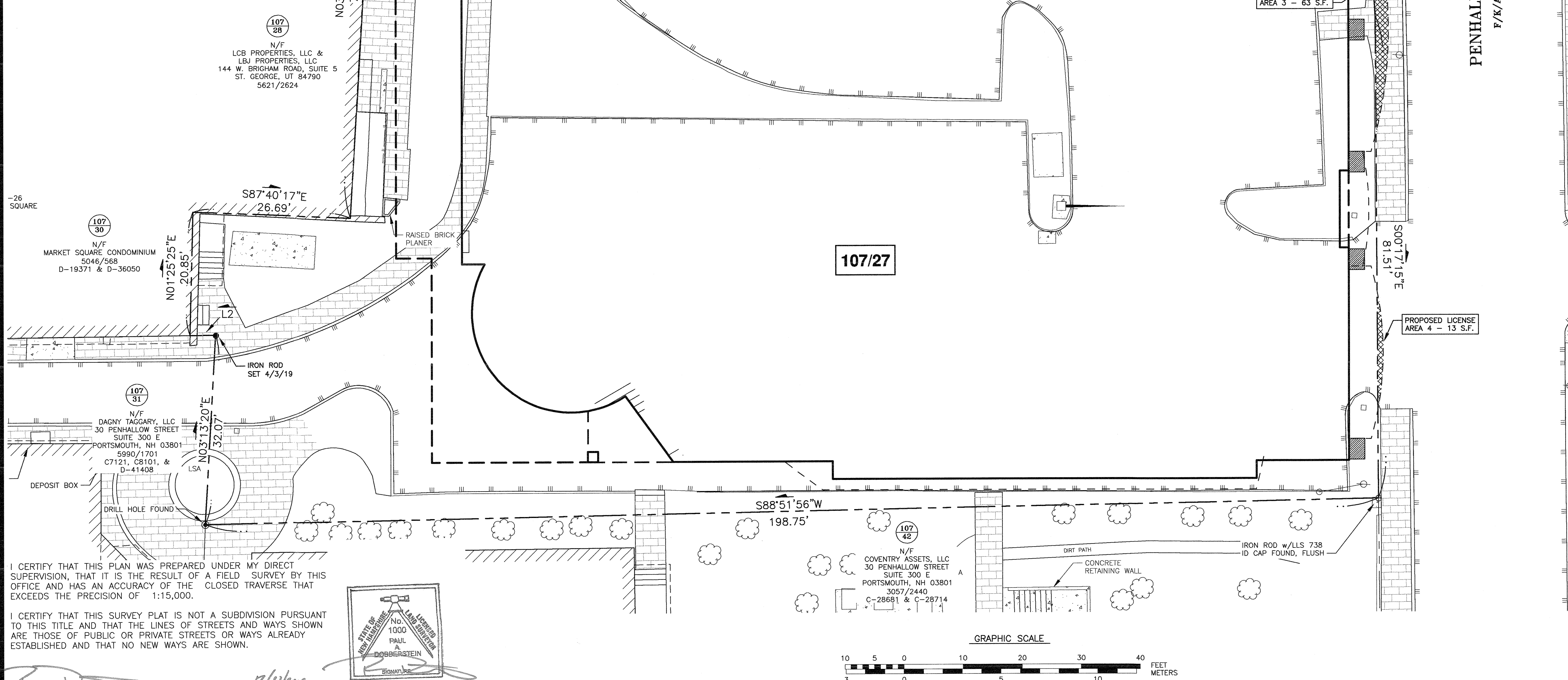
**LEGEND:**

N/F	NOW OR FORMERLY
RP	RECORD OF PROBATE
RCD	ROCKINGHAM COUNTY
11/21	REGISTRY OF DEEDS
	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

**PLAN REFERENCES:**

- STANDARD BOUNDARY SURVEY TAX MAP 107 - LOTS 27 & 31, PREPARED FOR: MENABBS PROPERTIES, LTD., LAND OF: JARREL REALTY, LLC, PROPERTY LOCATED AT: 3 PLEASANT STREET & 0 DANIEL STREET, CITY OF PORTSMOUTH, COUNTY OF ROCKINGHAM, STATE OF NEW HAMPSHIRE. PREPARED BY AMBIT ENGINEERING, INC. DATED MARCH 2019, FINAL REVISION DATE APRIL 3, 2019. R.C.R.D. PLAN D-41408.
- SEE PLAN REFERENCE 1 FOR ADDITIONAL PLAN REFERENCES.

**DANIEL STREET**



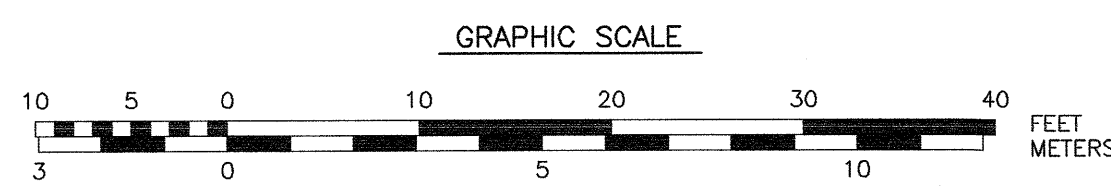
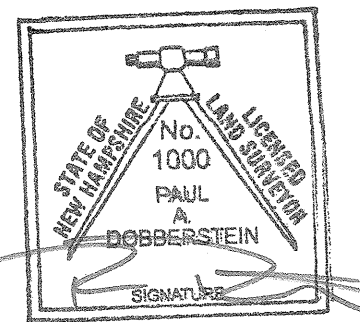
**LENGTH TABLE**

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

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  
DATE: 12/23/2019



2000  
N  
MAGNETIC  
R.C.R.D. PLAN  
C-28714

**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:**
- PARCEL IS SHOWN ON THE CITY OF PORTSMOUTH ASSESSOR'S MAP 107 AS LOT 27.
  - OWNER OF RECORD:  
DAGNY TAGGART, LLC  
30 PENHALLOW STREET, SUITE 300 EAST  
PORTSMOUTH, NH 03801  
5990/1701  
C-7121, C-8101, & D-41408
  - PARCEL IS NOT IN A SPECIAL FLOOD HAZARD AREA AS SHOWN ON FIRM PANEL 33015C0259E. EFFECTIVE DATE MAY 17, 2005.
  - EXISTING LOT AREA:  
23,279 S.F.  
0.5344 ACRES
  - THE PURPOSE OF THIS PLAN IS TO SHOW THE LOCATION OF PROPOSED LICENSES FOR ROOF OVERHANGS OF A PROPOSED BUILDING ON ASSESSOR'S MAP 107 LOT 27 IN THE CITY OF PORTSMOUTH. LICENSE TO BE GRANTED ARE WITHIN THE RIGHTS-OF-WAY OF DANIEL STREET AND PENHALLOW STREET.

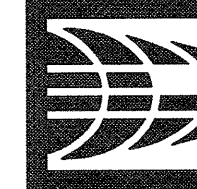
NO.	DESCRIPTION	DATE
0	ISSUED FOR COMMENT	12/23/19

**LICENSE PLAN FOR  
TAX MAP 107 - LOT 27  
OVER RIGHTS-OF-WAY OF:  
DANIEL STREET &  
PENHALLOW STREET**

FOR BENEFIT OF:  
**DAGNY TAGGART, LLC**

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





**NOTES:**

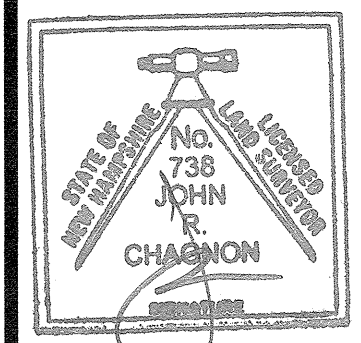
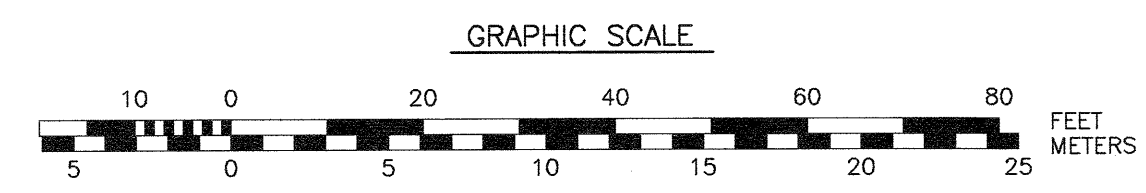
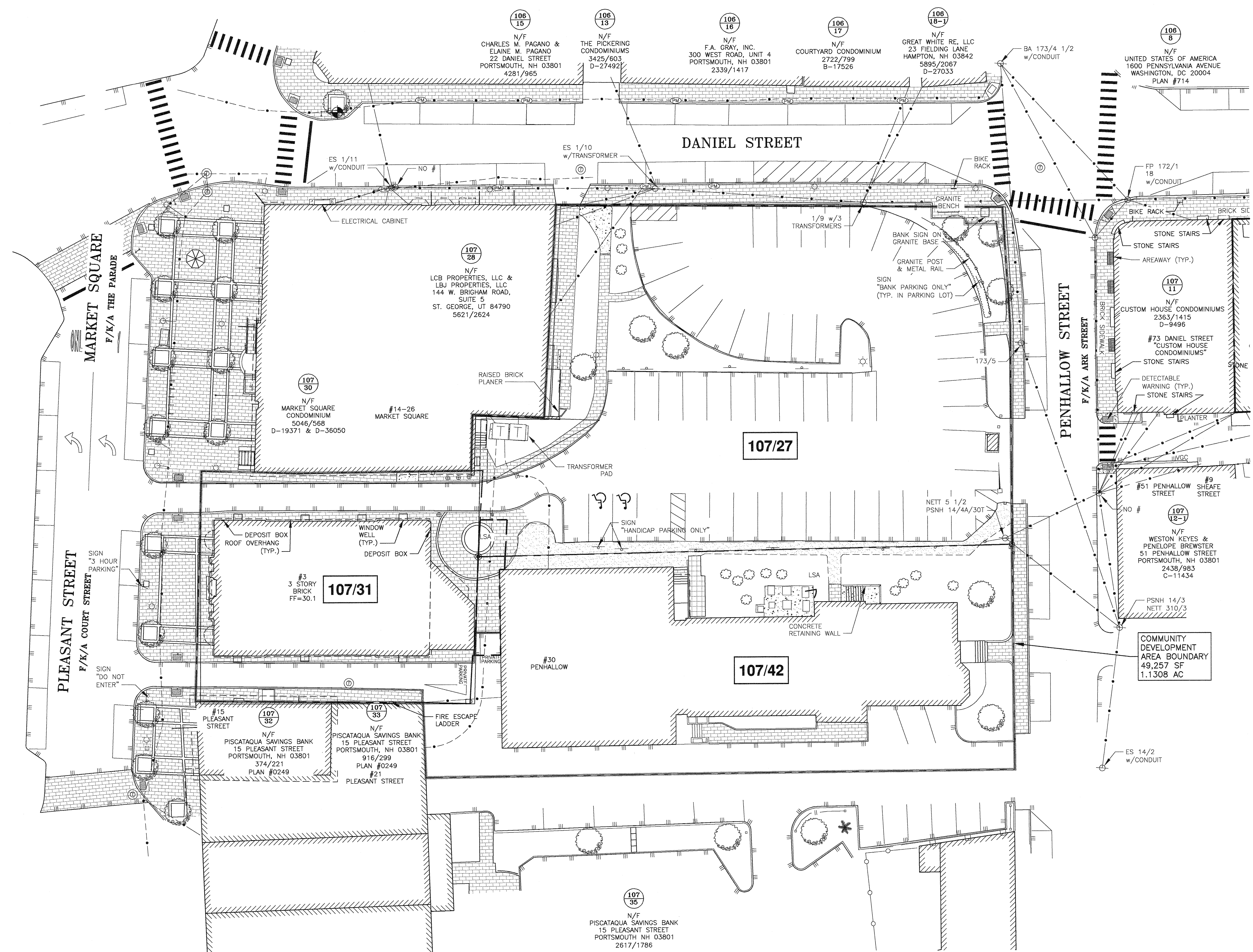
- 1) PARCELS ARE SHOWN ON THE CITY OF PORTSMOUTH ASSESSOR'S MAP 107 AS LOTS 27, 31 & 42.
- 2) OWNERS OF RECORD:  
107/27 & 31  
DAGNY TAGGART, LLC  
30 PENHALLOW STREET, SUITE 300 EAST  
PORTSMOUTH, NH 03801  
5990/701 (LOT 31) & 5990/1703 (LOT 27)  
C-7121, C-8101, & D-4140B  
  
107/42  
COVENTRY ASSETS, 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

2000  
MAGNETIC  
N  
R.C.R.D. PLAN  
C-28714

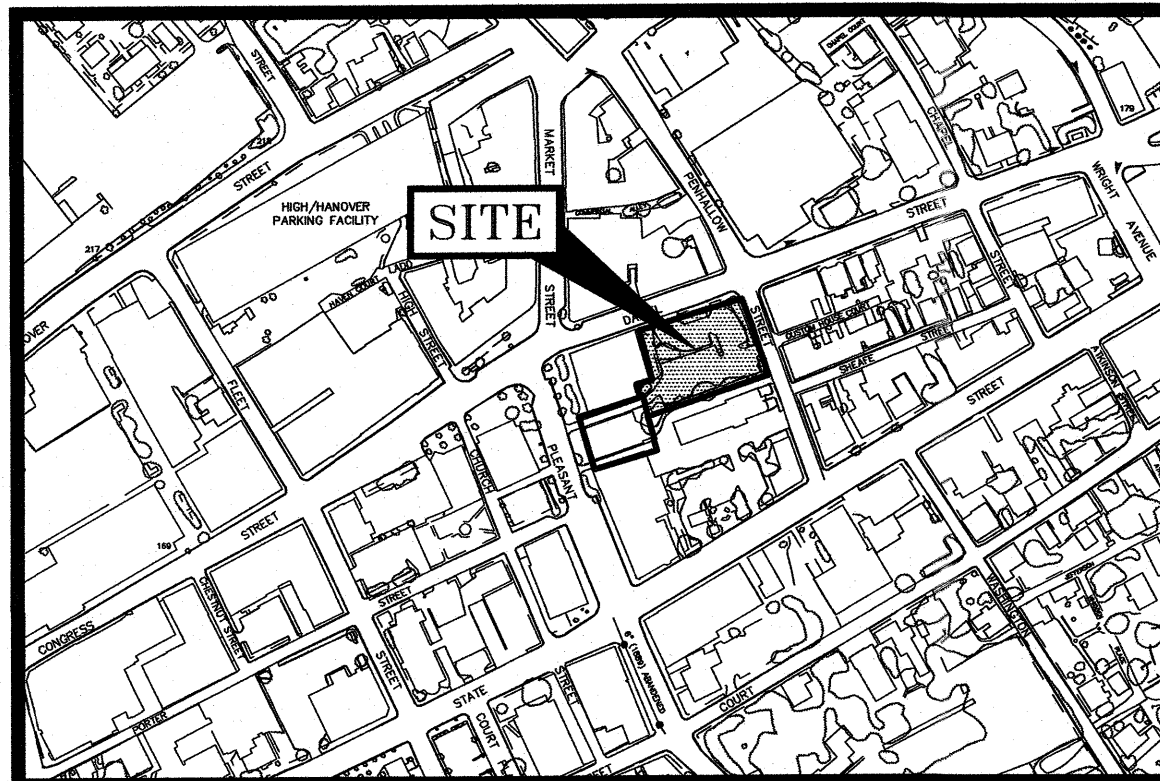


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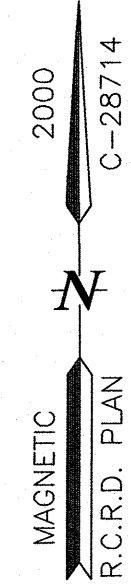






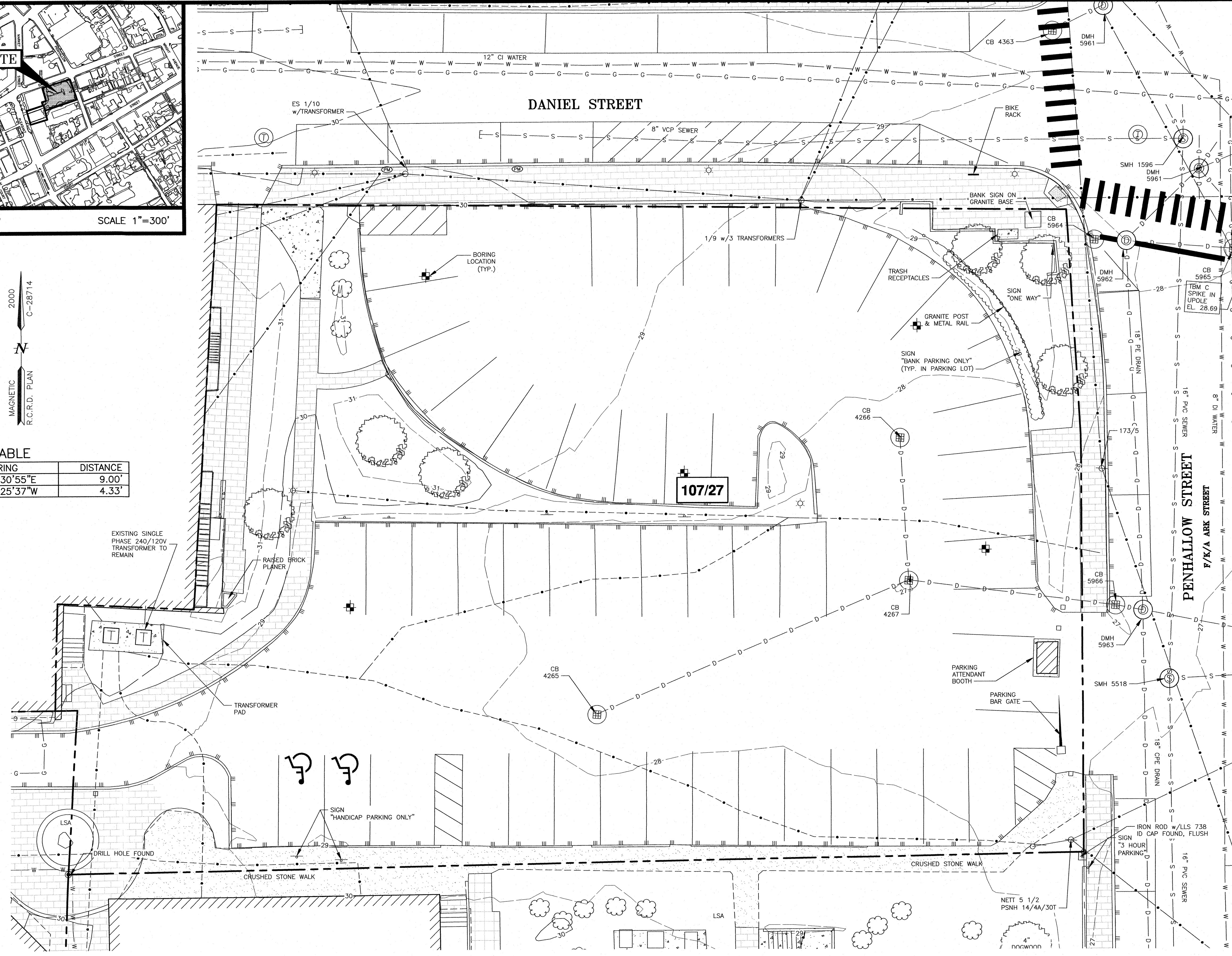
LOCATION MAP

SCALE 1"=300'



LENGTH TABLE

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

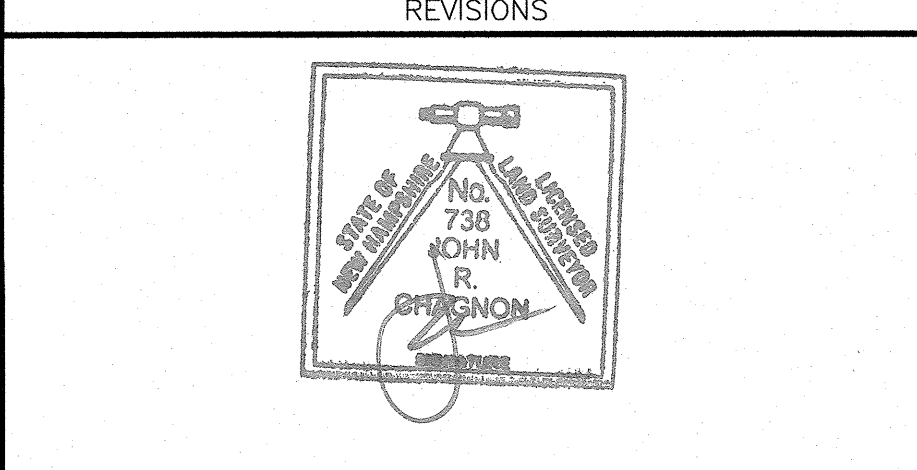


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Civil Engineers & Land Surveyors  
200 Griffin Road - Unit 3  
Portsmouth, N.H. 03801-7114  
Tel (603) 430-9282  
Fax (603) 436-2315

- 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 000 289 (V-31 USGS 1943)  
ELEVATION: 29.19

**BRICK MARKET**  
**60 PENHALLOW STREET**  
**PORTSMOUTH, N.H.**

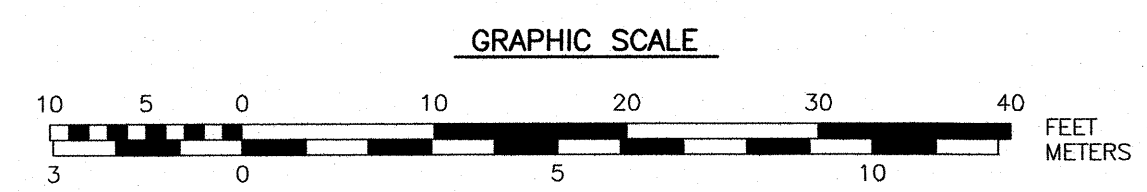
NO.	DESCRIPTION	DATE
1	ISSUED FOR APPROVAL	11/18/19
0	ISSUED FOR COMMENT	10/8/19



SCALE: 1"=10'      OCTOBER 2019

EXISTING CONDITIONS  
PLAN

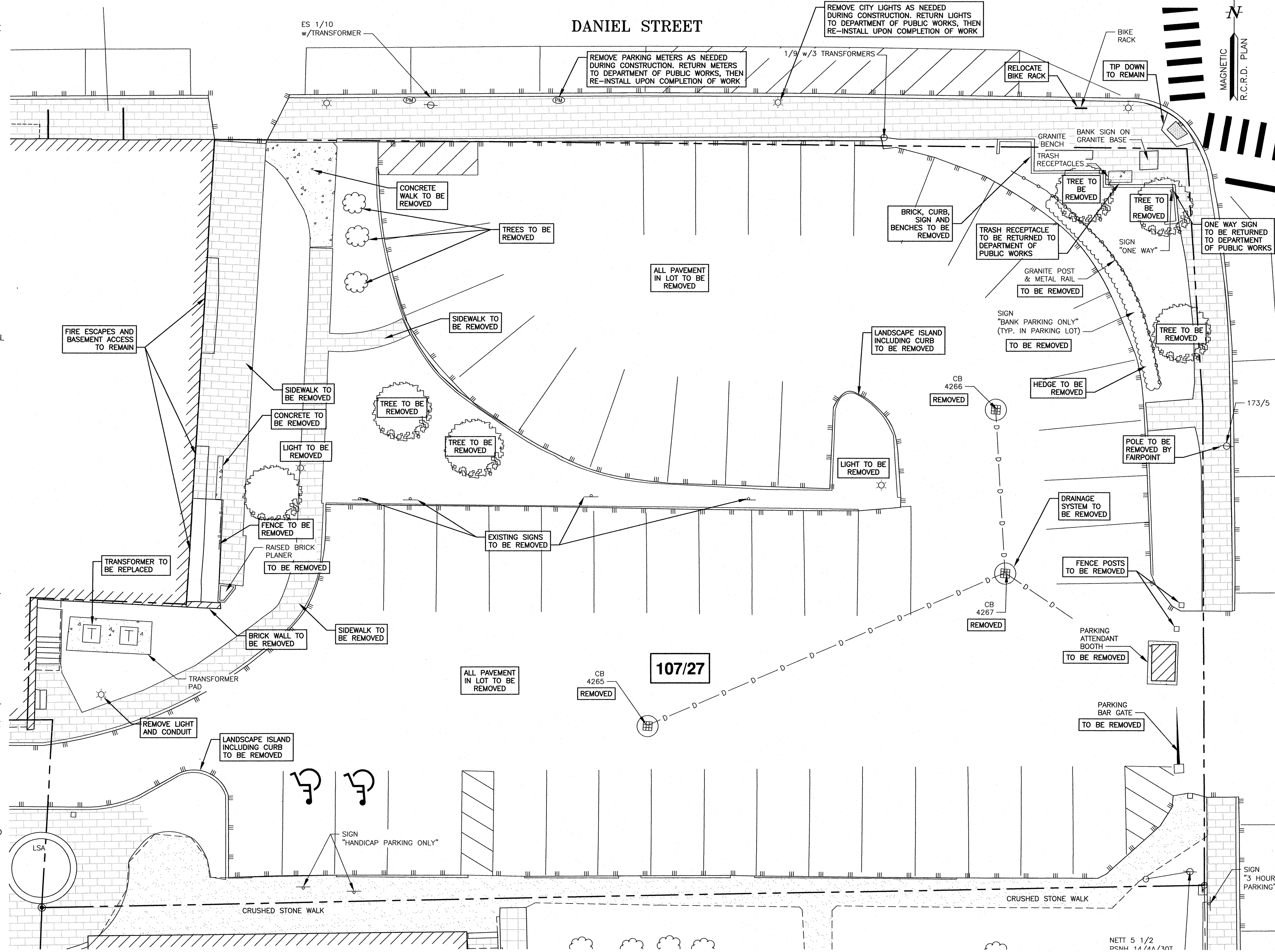
**C1**





**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 CONTRACTOR'S 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

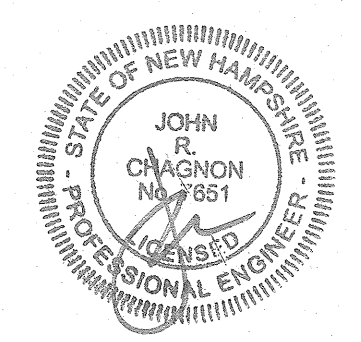


- NOTES:**
- 1) THE CONTRACTOR SHALL NOTIFY DIG SAFE AT 1-888-DIG-SAFE (1-888-344-7233) AT LEAST 72 HOURS PRIOR TO COMMENCING ANY EXCAVATION ON PUBLIC OR PRIVATE PROPERTY WITHIN 100 FEET OF UNDERGROUND UTILITIES. THE EXCAVATOR IS RESPONSIBLE TO MAINTAIN MARKS. DIG SAFE TICKETS EXPIRE IN 30 DAYS.
  - 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
2	LIGHTING NOTE	12/23/19
1	ISSUED FOR APPROVAL	11/18/19
0	ISSUED FOR COMMENT	10/8/19

REVISIONS

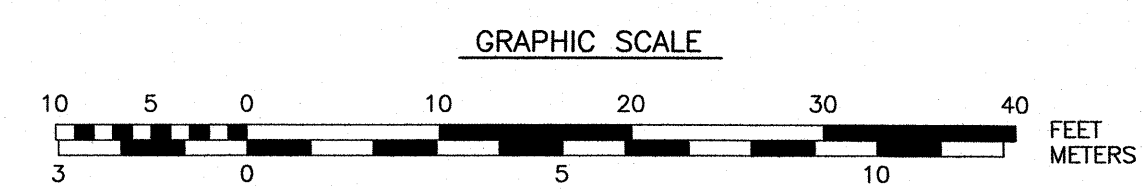


SCALE: 1"=10'      OCTOBER 2019

**DEMOLITION PLAN      C2**

APPROVED BY THE PORTSMOUTH PLANNING BOARD

CHAIRMAN \_\_\_\_\_ DATE \_\_\_\_\_



I:\JOBSS\IN 3000\IN 3039\2019 Survey and Site Development\Plans & Specs\Site\3039 Existing Conditions 2019.dwg, C2 DEMO 60 PENHALLOW



**ZONING DEVELOPMENT STANDARD**

CD4: CHARACTER DISTRICT 4  
 DOWNTOWN OVERLAY DISTRICT AND HISTORIC DISTRICT  
 BUILDING PLACEMENT (PRINCIPAL):

	REQUIRED	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).

**FAÇADE 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"
FAÇADE GLAZING (WINDOW/PERIMETER):	70% SHOP 20-50% OTHER	N/A	OTHER 33-44%

**ROOF TYPE: CURVED GABLE**

**LOT OCCUPATION:**

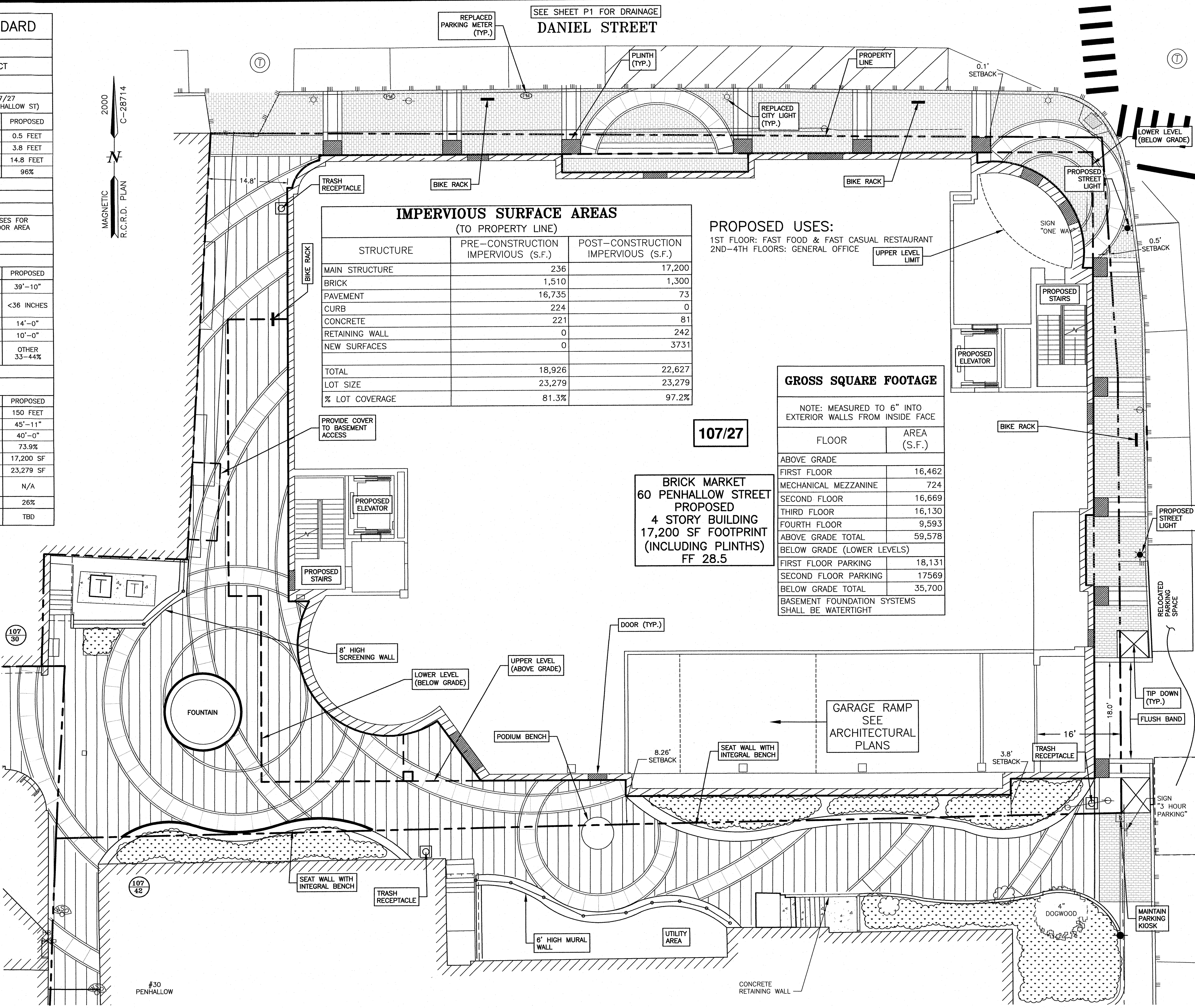
	REQUIRED	EXISTING	PROPOSED
MAX BUILDING BLOCK:	200 FEET	N/A	150 FEET
MAX FAÇADE MOD. LENGTH:	80 FEET	-	45'-11"
MAX. ENTRANCE SPACING:	50 FEET	-	40'-0"
MAX BUILDING COVERAGE:	90%	0%	73.9%
MAX BUILDING FOOTPRINT:	20,000 SF**	NONE	17,200 SF
MIN. LOT AREA:	NR	23,279 SF	23,279 SF
MIN. LOT AREA/DWELLING (LOT 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:**

- 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.
- THIS SITE PLAN SHALL BE RECORDED IN THE ROCKINGHAM COUNTY REGISTRY OF DEEDS.
- ALL IMPROVEMENTS SHOWN ON THIS SITE PLAN SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE PLAN BY THE PROPERTY OWNER AND ALL FUTURE PROPERTY OWNERS. NO CHANGES SHALL BE MADE TO THIS SITE PLAN WITHOUT THE EXPRESS APPROVAL OF THE PORTSMOUTH PLANNING DIRECTOR.
- FOUNDATION EXCAVATION WILL REQUIRE SHORING TO PROTECT CITY STREETS AND INFRASTRUCTURE.
- A FLASHING WARNING SIGN/SIGNAL SHALL BE INSTALLED AT THE DRIVEWAY TO ALERT PEDESTRIANS WHEN A VEHICLE IS EXITING FROM THE GARAGE.
- BASEMENT FOUNDATION SYSTEMS SHALL BE WATERTIGHT

SEE SHEET P1 FOR DRAINAGE  
**DANIEL STREET**



**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
<b>TOTAL</b>	<b>18,926</b>	<b>22,627</b>
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	17,569
BELOW GRADE TOTAL	35,700
BASEMENT FOUNDATION SYSTEMS SHALL BE WATERTIGHT	

**107/27**  
**BRICK MARKET**  
**60 PENHALLOW STREET**  
**PROPOSED**  
**4 STORY BUILDING**  
**17,200 SF FOOTPRINT**  
**(INCLUDING PLINTHS)**  
**FF 28.5**

**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:**
- PARCEL IS SHOWN ON THE CITY OF PORTSMOUTH ASSESSOR'S MAP 107 AS LOT 27.
  - OWNER OF RECORD:  
 DAGNY TAGGART, LLC  
 30 PENHALLOW STREET, SUITE 300 EAST  
 PORTSMOUTH, NH 03801
  - PARCEL IS NOT IN A SPECIAL FLOOD HAZARD AREA AS SHOWN ON FIRM PANEL 33015C0259E. EFFECTIVE DATE MAY 17, 2005.
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 0.5344 ACRES
  - 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).
  - PARKING SPECIFICATIONS: NO PARKING REQUIRED. SUBSURFACE PARKING PROVIDED.
  - THE PURPOSE OF THIS PLAN IS TO SHOW SITE LAYOUT FOR BUILDING ON ASSESSOR'S MAP 107 LOT 27 IN THE CITY OF PORTSMOUTH.
  - THE CONTRACTOR SHALL NOTIFY DIG SAFE AT 1-888-DIG-SAFE (1-888-344-7233) AT LEAST 72 HOURS PRIOR TO COMMENCING ANY EXCAVATION WITHIN 100 FEET OF UNDERGROUND UTILITIES. THE EXCAVATOR IS RESPONSIBLE TO MAINTAIN MARKS.
  - 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.
  - 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).
  - SEE LANDSCAPE PLANS FOR PROPOSED SURFACE TREATMENTS.
  - SNOW SHALL BE REMOVED FROM THE SITE.
  - A FLASHING WARNING SIGN/SIGNAL SHALL BE INSTALLED AT THE DRIVEWAY TO ALERT PEDESTRIANS WHEN A VEHICLE IS EXITING FROM THE GARAGE.

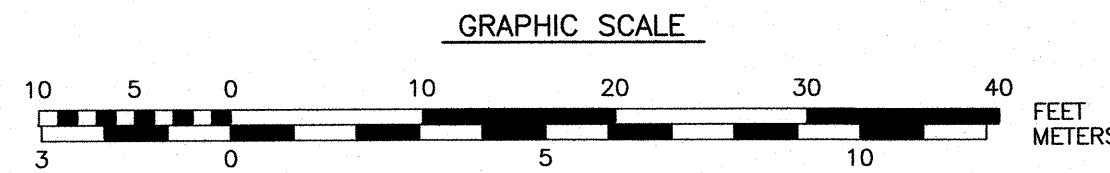
**BRICK MARKET**  
**60 PENHALLOW STREET**  
**PORTSMOUTH, N.H.**

NO.	DESCRIPTION	DATE
3	NOTE 13, CONDITION NOTE 4, LIGHTS	12/23/19
2	ISSUED FOR DESIGN REVIEW	12/2/19
1	ISSUED FOR APPROVAL	11/18/19
0	ISSUED FOR REVIEW	10/8/19

Professional Engineer Seal for John R. Chagnon, No. 7851, State of New Hampshire.

SCALE: 1"=10'      OCTOBER 2019

**SITE LAYOUT PLAN**      **C3**



APPROVED BY THE PORTSMOUTH PLANNING BOARD

CHAIRMAN \_\_\_\_\_ DATE \_\_\_\_\_

J:\JOBS\3000's\IN 3030's\IN 3039 2019 Site Development 60 Penhallow Plans & Specs\Site\3039 SITE 60 PENHALLOW.dwg, C3 SITE



# Landscape Notes

- Design is based on drawings by Ambit Engineering dated November 18, 2019 and may require adjustment due to actual field conditions.
- The contractor shall follow best management practices during construction and shall take all means necessary to stabilize and protect the site from erosion.
- Erosion Control shall be in place prior to construction.
- 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.
- 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.
- 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.
- This plan is for review purposes only, NOT for Construction. Construction Documents will be provided upon request.
- Location, support, protection, and restoration of all existing utilities and appurtenances shall be the responsibility of the Contractor.
- 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
- The Contractor shall procure any required permits prior to construction.
- 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.
- 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 completion of the 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.
- 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.
- 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.
- All plants shall be legibly tagged with proper botanical name.
- The Contractor shall guarantee all plants for not less than one year from time of acceptance.
- 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.
- No substitutions of plants may be made without prior approval of the Owner or the Owner's Representative for any reason.
- All landscaping shall be provided with either of the following
  - An underground sprinkling system
  - An outside hose attachment within 150 feet
- If an automatic irrigation system is installed, all irrigation valve boxes shall be located within planting bed areas.
- 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.
- 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.
- 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 1/2" 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.
- 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.
- 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.
- Snow shall be removed from the site.
- Landscape Architect is not responsible for the means and methods of the contractor.

# City of Portsmouth Notes

- The property owner and all future property owners shall be responsible for the maintenance, repair and replacement of all required screening and landscape materials.
- All required plant materials shall be tended and maintained in a healthy growing condition, replaced when necessary, and kept free of refuse and debris. All required fences and walls shall be maintained in good repair.
- The property owner shall be responsible to remove and replace dead or diseased plant materials immediately with the same type, size and quantity of plant materials as originally installed, unless alternative plantings are requested, justified and approved by the Planning Board or Planning Director.

# Plant List

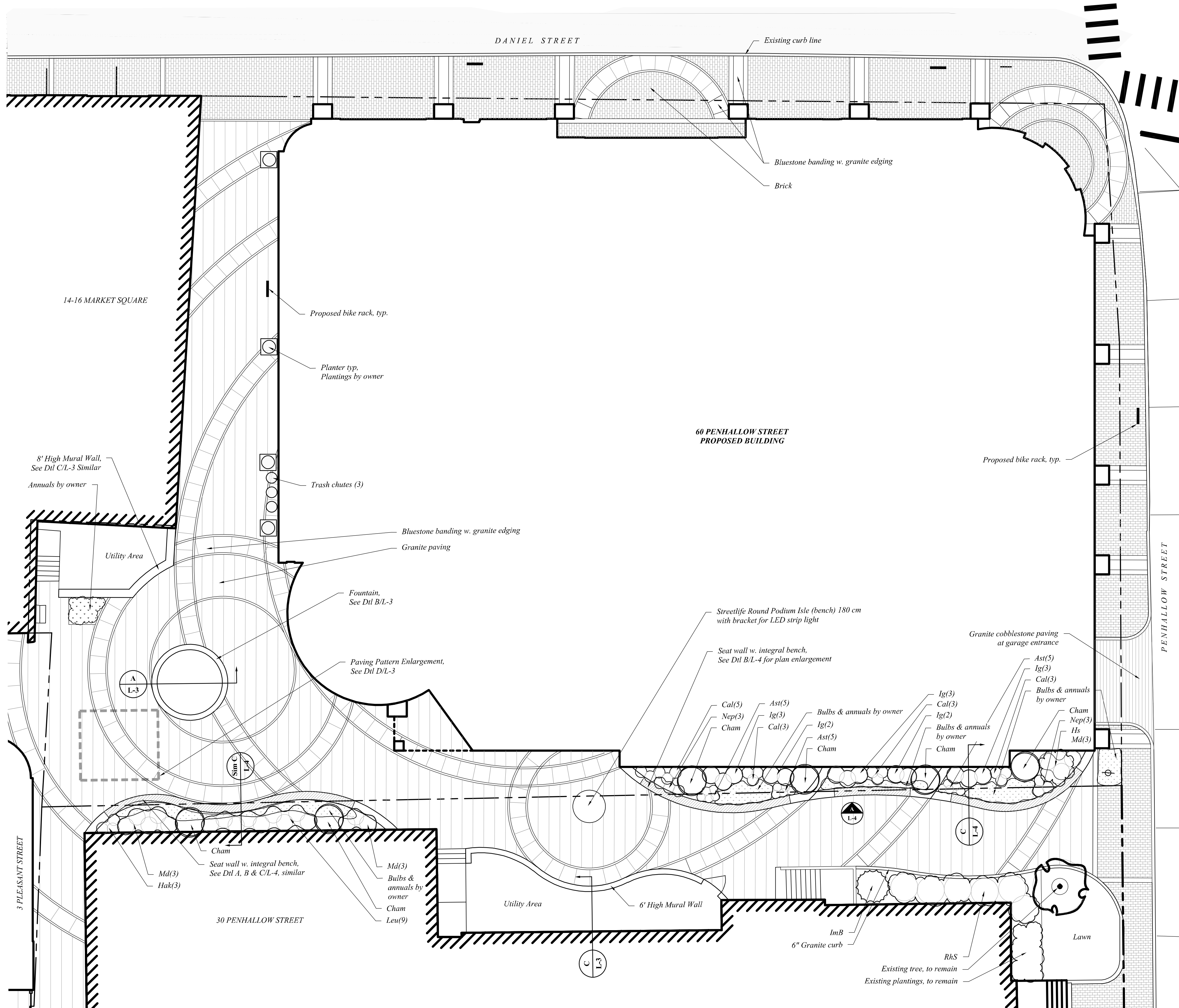
## Plant List

### SHRUBS

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

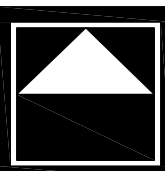
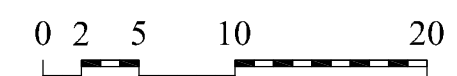
### PERENNIALS, GROUNDCOVERS, VINES AND ANNUALS

Symbol	Botanical Name	Common Name	Quantity	Size	Comments
Ast	<i>Astilbe</i> 'Fanal'	Rubryed Astilbe	15	1 gal	
Cal	<i>Calamagrostis acutifolia</i> 'Karl Foerster'	Feather Reed Grass	14	3 gal	
Hak	<i>Hakonechloa macra</i> 'Aureola'	Golden Japanese Forest Grass	3	1 gal	
Nep	<i>Nepeta faassenii</i> 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 weeds 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

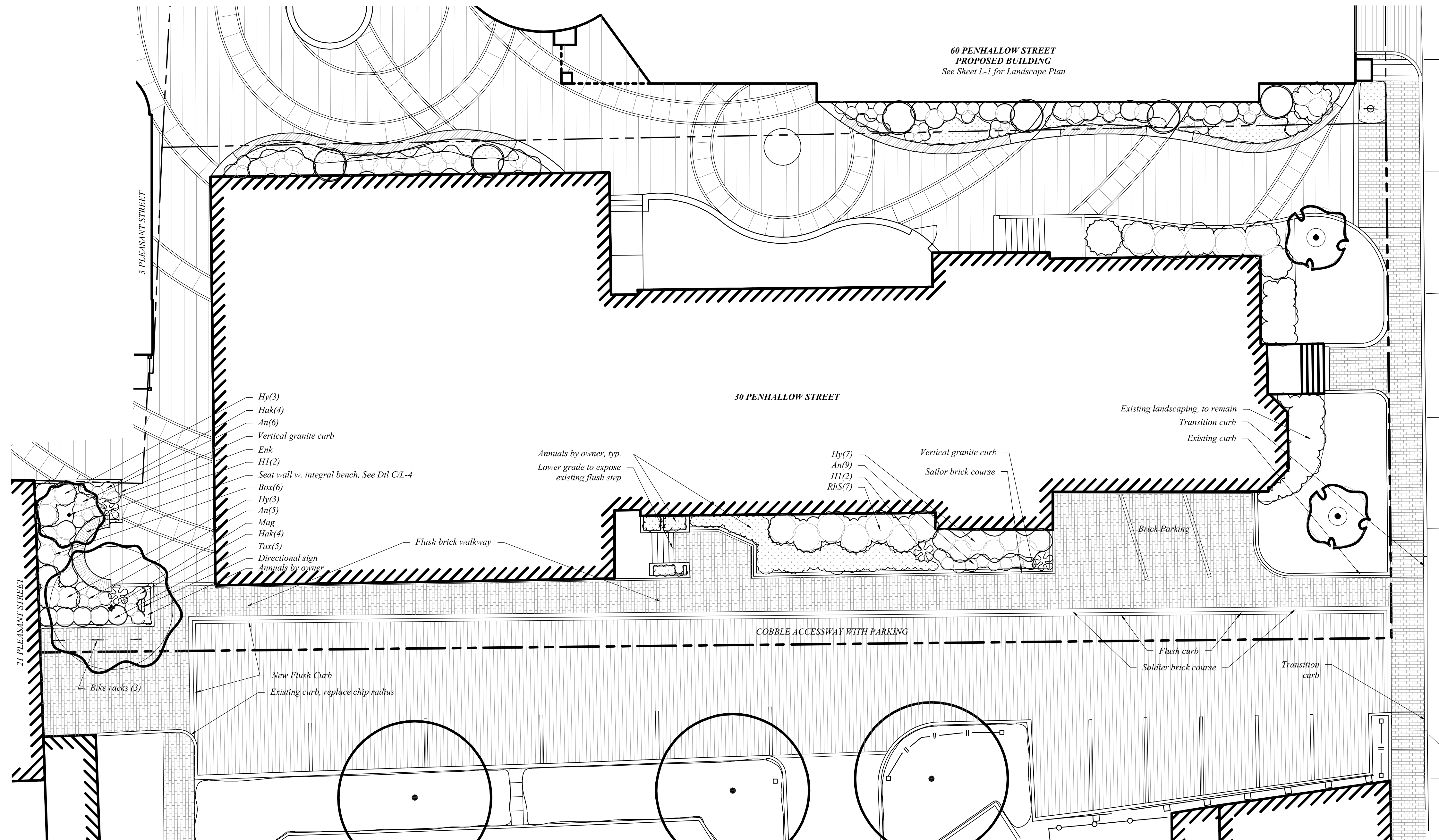


**woodburn & company**  
LANDSCAPE ARCHITECTURE  
103 Kent Place  
Newmarket, New Hampshire  
Phone: 603.659.5949

**Brick Market**  
**60 PENHALLOW STREET LANDSCAPE PLAN**  
Portsmouth, New Hampshire

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

**L-1**  
Sheet 1 of 5



**Plant List**

**TREES**

Symbol	Botanical Name	Common Name	Quantity	Size	Comments
Mag	<i>Magnolia loebneri</i> Leonard Messel'	Leonard Messel Magnolia	1	8-10' Ht	B&B

**SHRUBS**

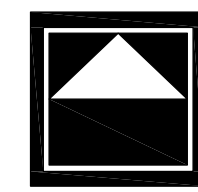
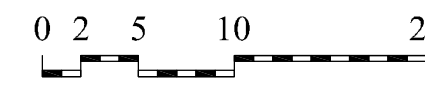
Symbol	Botanical Name	Common Name	Quantity	Size	Comments
Box	<i>Buxus microphylla</i> 'Winter Gem'	Winter Gem Boxwood	6	3 gal	
Enk	<i>Enkianthus campanulatus</i>	Redvein Enkianthus	1	7-8' ht	Multi-stem tree form, B&B
Hy	<i>Hydrangea arborescens</i> 'Incrediball'	Incrediball Hydrangea	13	5 gal	
RhS	<i>Rhododendron</i> 'Scintillation'	Scintillation Rhododendron	7	2.5-3' ht	B&B
Tax	<i>Taxus media</i> 'Tauntonii'	Taunton Yew	5	2.5-3' ht	B&B

**PERENNIALS, GROUNDCOVERS, VINES and ANNUALS**

Symbol	Botanical Name	Common Name	Quantity	Size	Comments
An	<i>Anemone</i> 'September Charm'	Japanese Anemone	20	1 gal	
H1	<i>Hosta</i> 'Bold Ribbons'	Bold Ribbons Hosta	4	1 gal	
Hak	<i>Hakonechloa macra</i> 'Aureola'	Golden Japanese Forest Grass	8	1 gal	

**PAVING MATERIALS LIST**

	MATERIAL	FINISH	DIMENSIONS	NOTES
<b>Bluestone Banding</b>	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.
<b>Granite Paving</b>	Deer Isle Granite	Thermal	2' W x 3' L x 4" thick	
<b>Granite Edging in Plaza</b>	Wausau Granite	Thermal	4" W x 4" L x 4" thick	
<b>Granite Edging in Sidewalk</b>	To match existing	To match existing	Thickness to match brick	Length and width dimensions vary, see plan.
<b>Brick</b>	Clay paving brick			Specification TBD



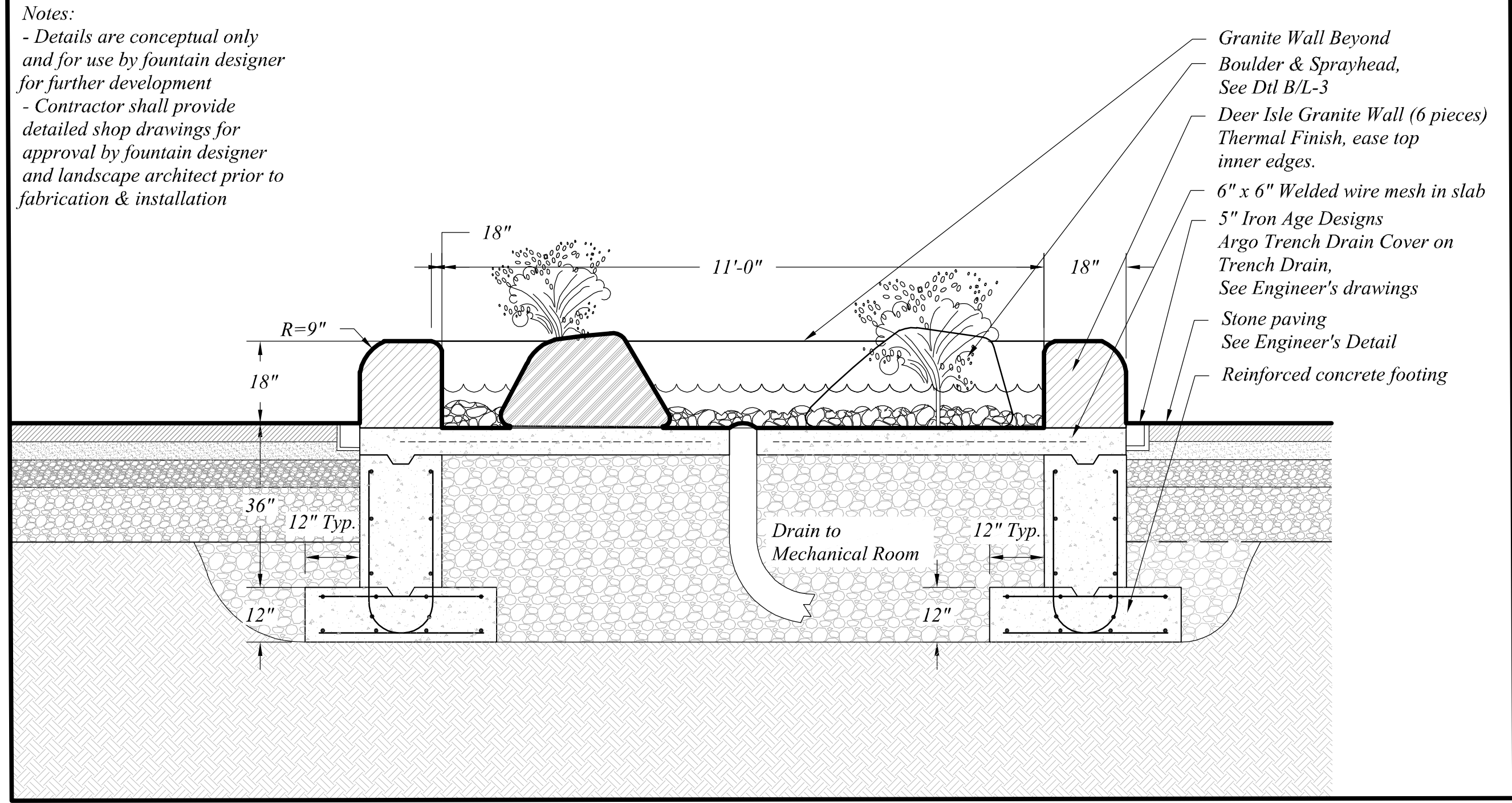
**woodburn & company**  
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103 Kent Place  
Newmarket, New Hampshire  
Phone: 603.659.5949

**Brick Market**  
**30 PENHALLOW LANDSCAPE PLAN**  
Portsmouth, New Hampshire

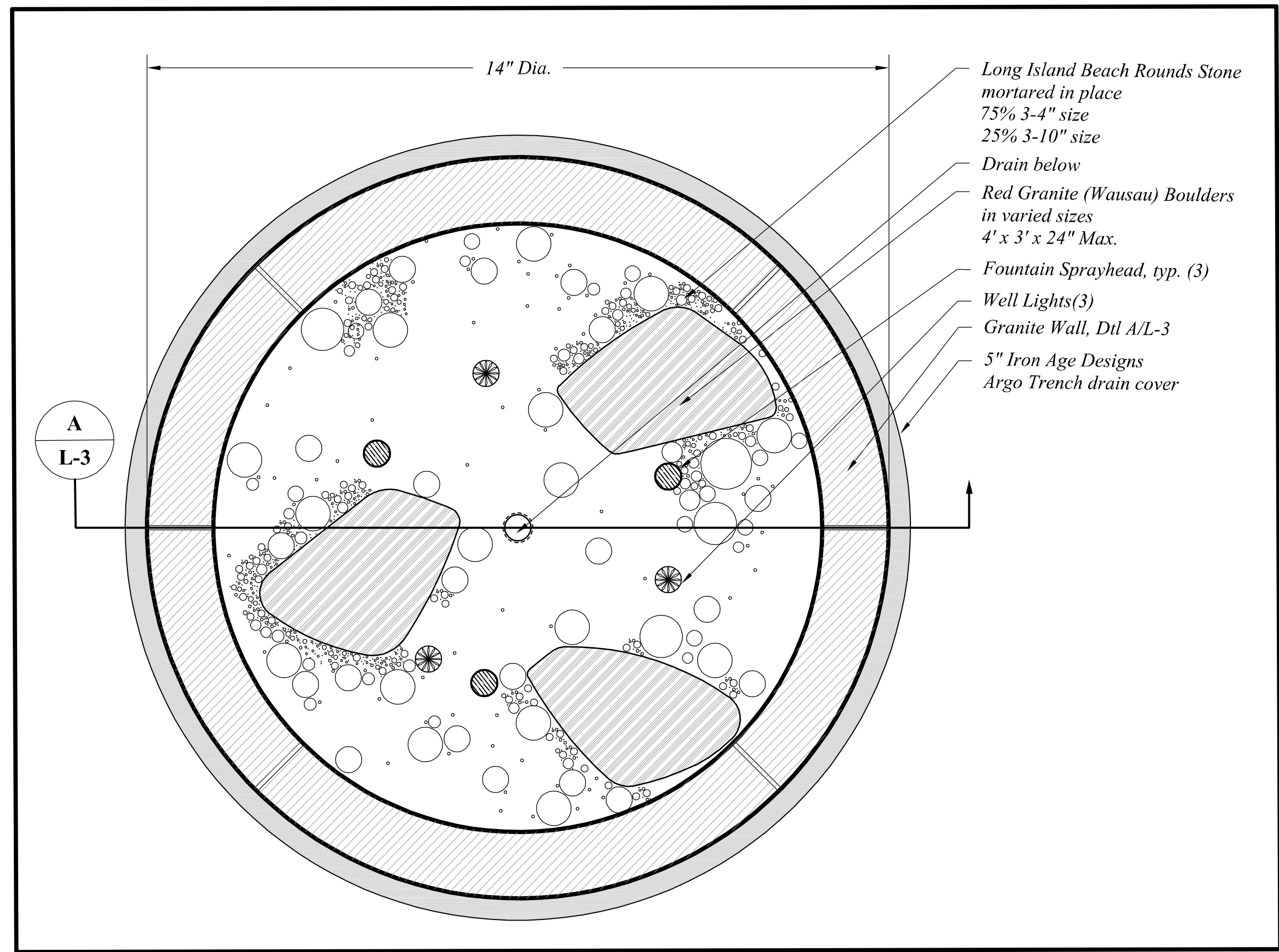
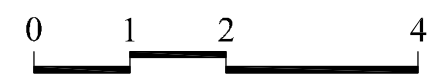
Drawn By: VM  
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Scale: 1" = 10' - 0"  
Date: November 26, 2019  
Revisions: December 20, 2019

**L-2**  
Sheet 2 of 5

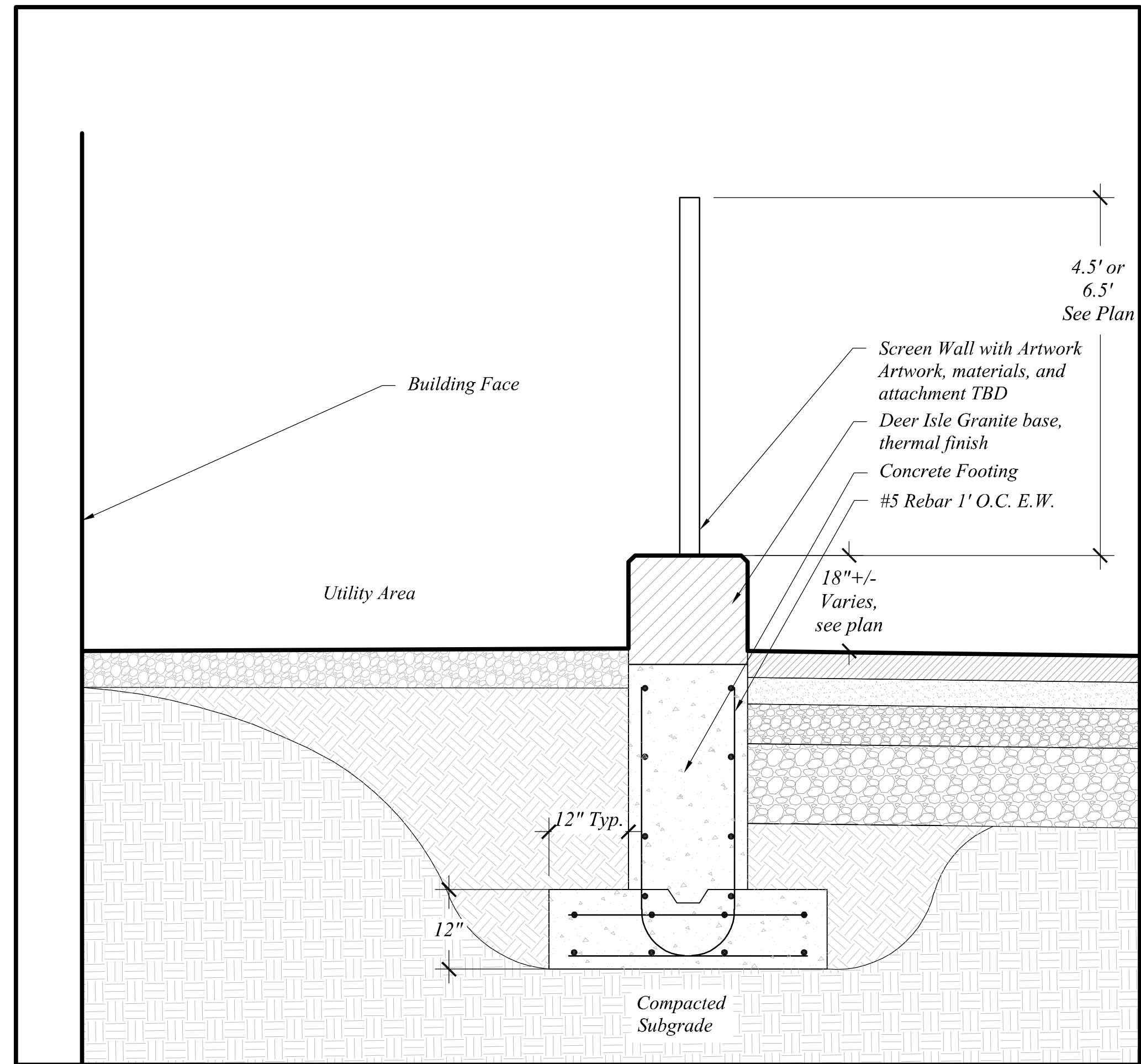
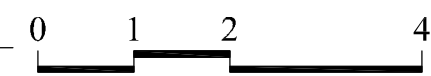




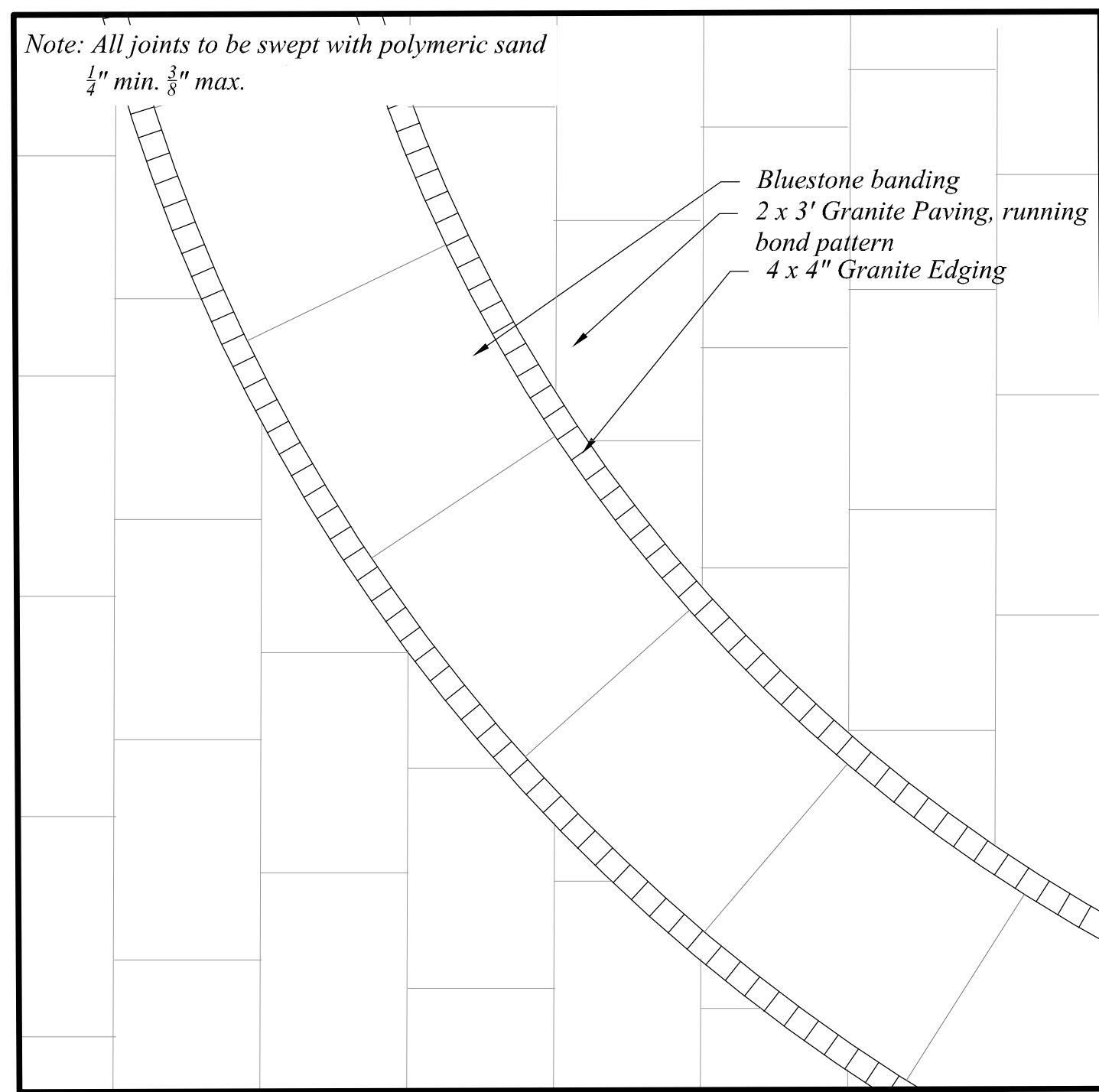
**A Fountain Section**  
 Scale: 1/2"=1'-0"



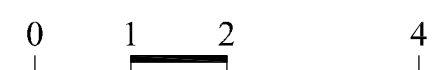
**B Fountain Plan**  
 Scale: 1/2"=1'-0"



**C Mural Wall Section**  
 Scale: 3/4"=1'-0"

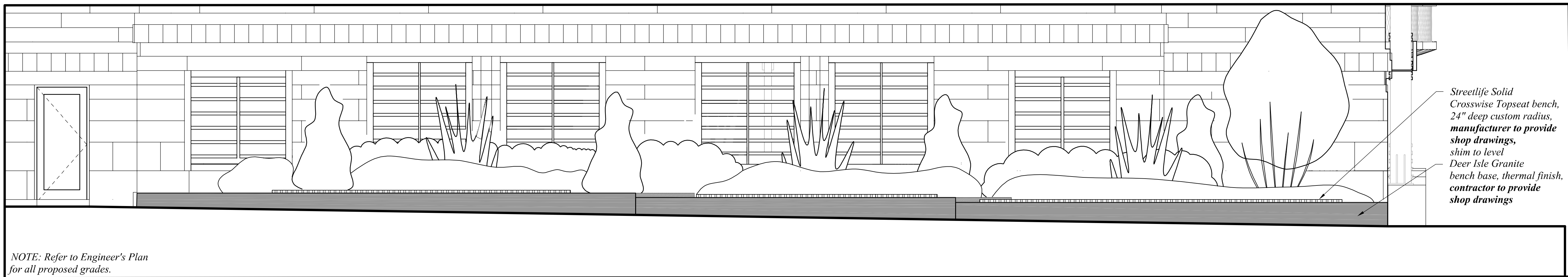


**D Paving Enlargement**  
 Scale: 1/2"=1'-0"

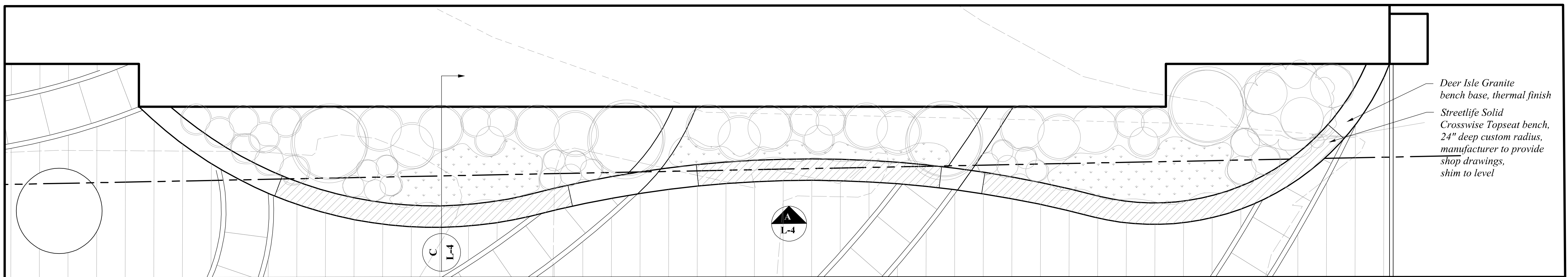


**PAVING MATERIALS LIST**

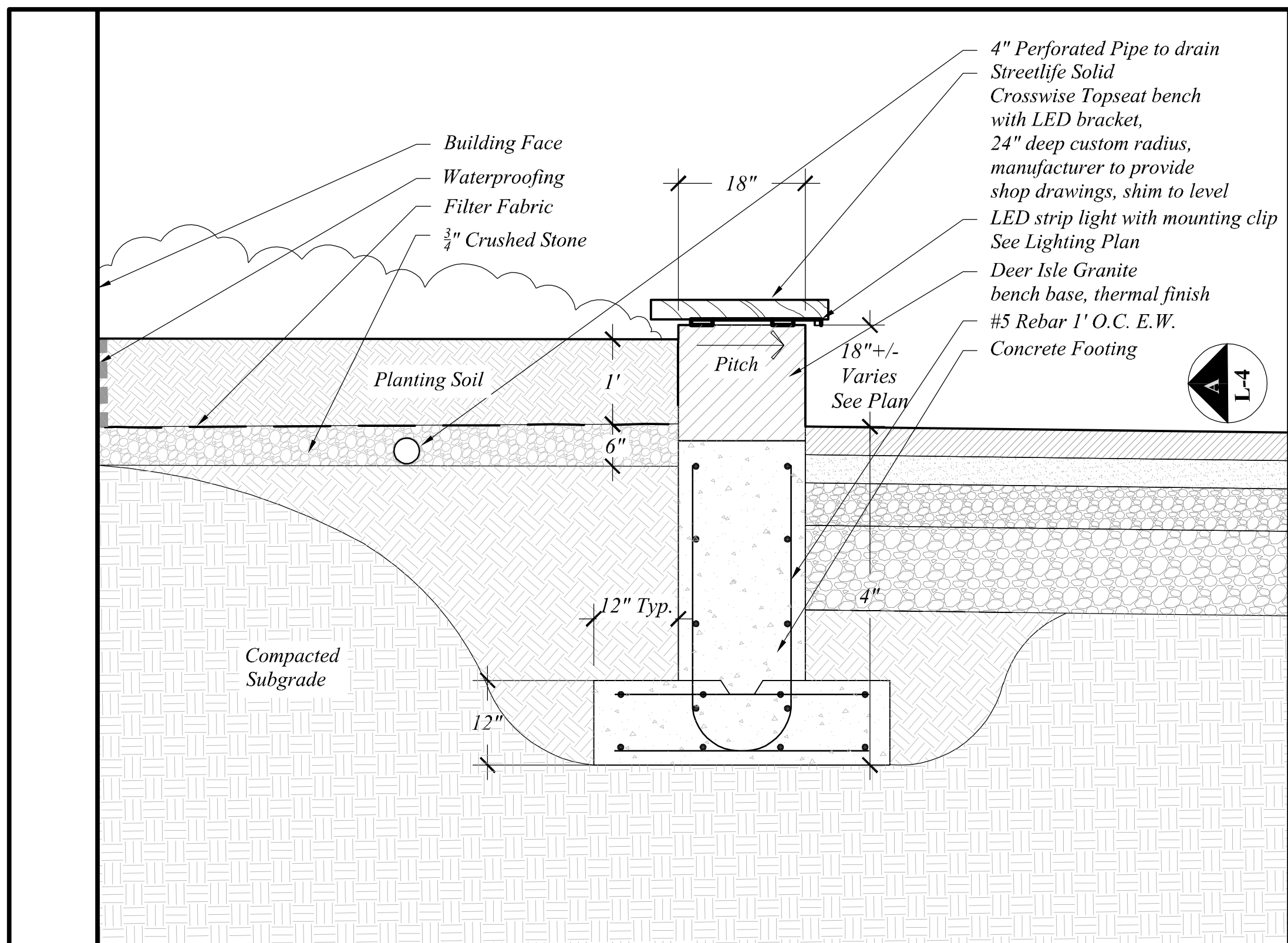
	MATERIAL	FINISH	DIMENSIONS	NOTES
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Granite Edging in Sidewalk	To match existing	To match existing	Thickness to match brick	Length and width dimensions vary, see plan.
Brick	Clay paving brick			Specification TBD



**A Bench Elevation** Scale: 1/4"=1'-0" 0 2 4 8



**B Bench Plan** Scale: 1/4"=1'-0" 0 2 4 8



**C Bench Section** Scale: 3/4"=1'-0"

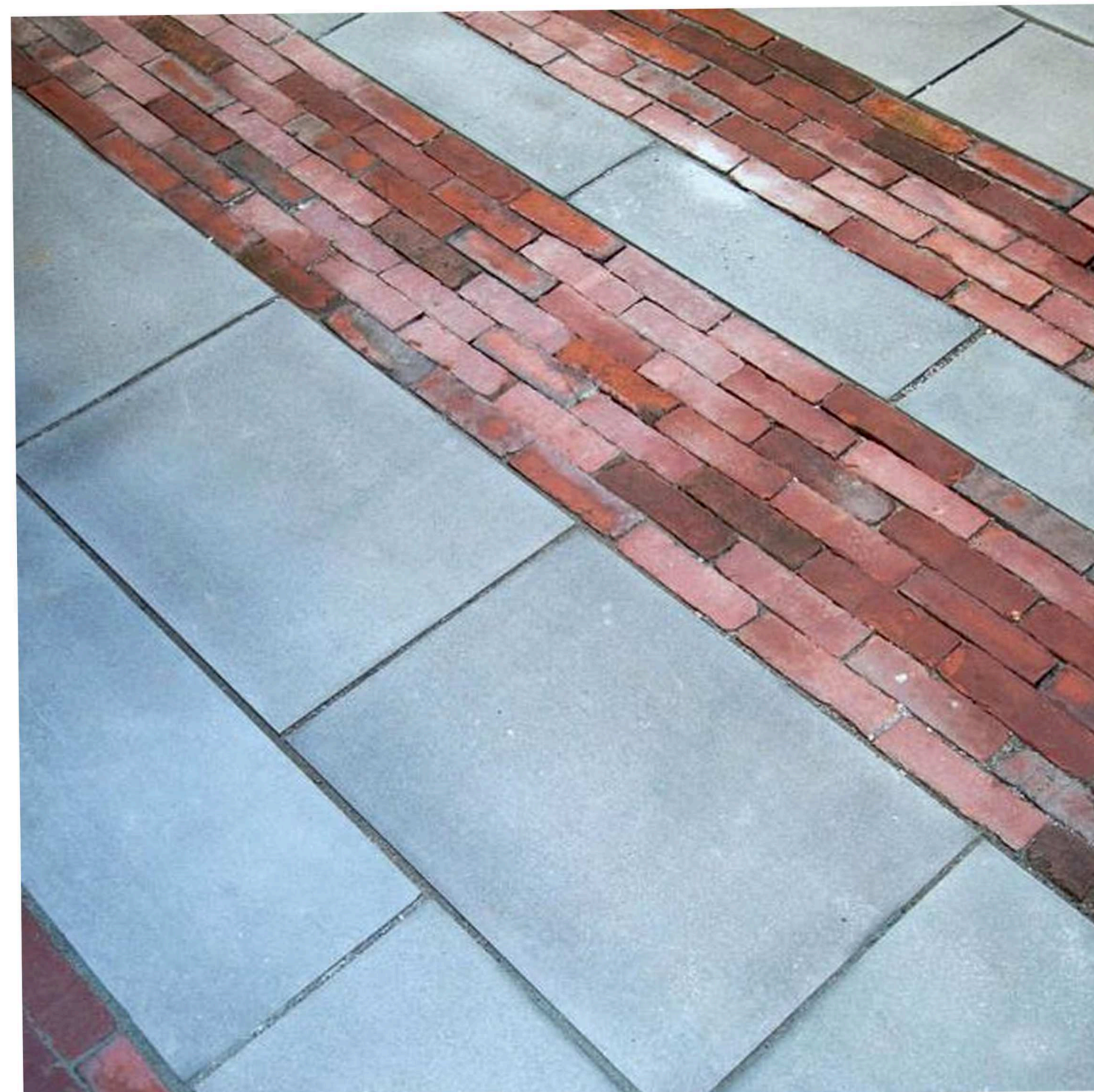




*Wausau Red Granite - Slim banding*



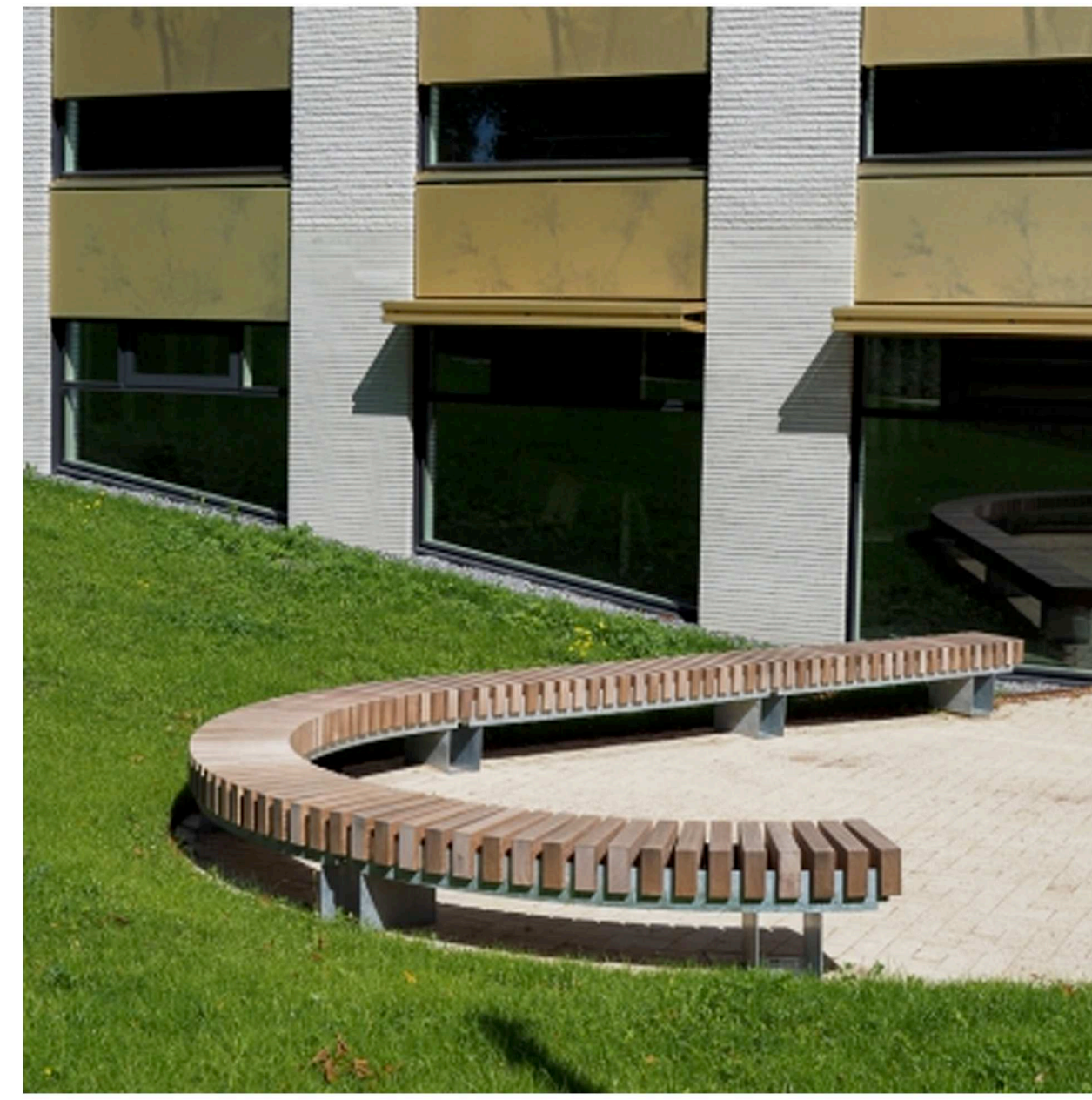
*Deer Isle Granite - Paving Field*



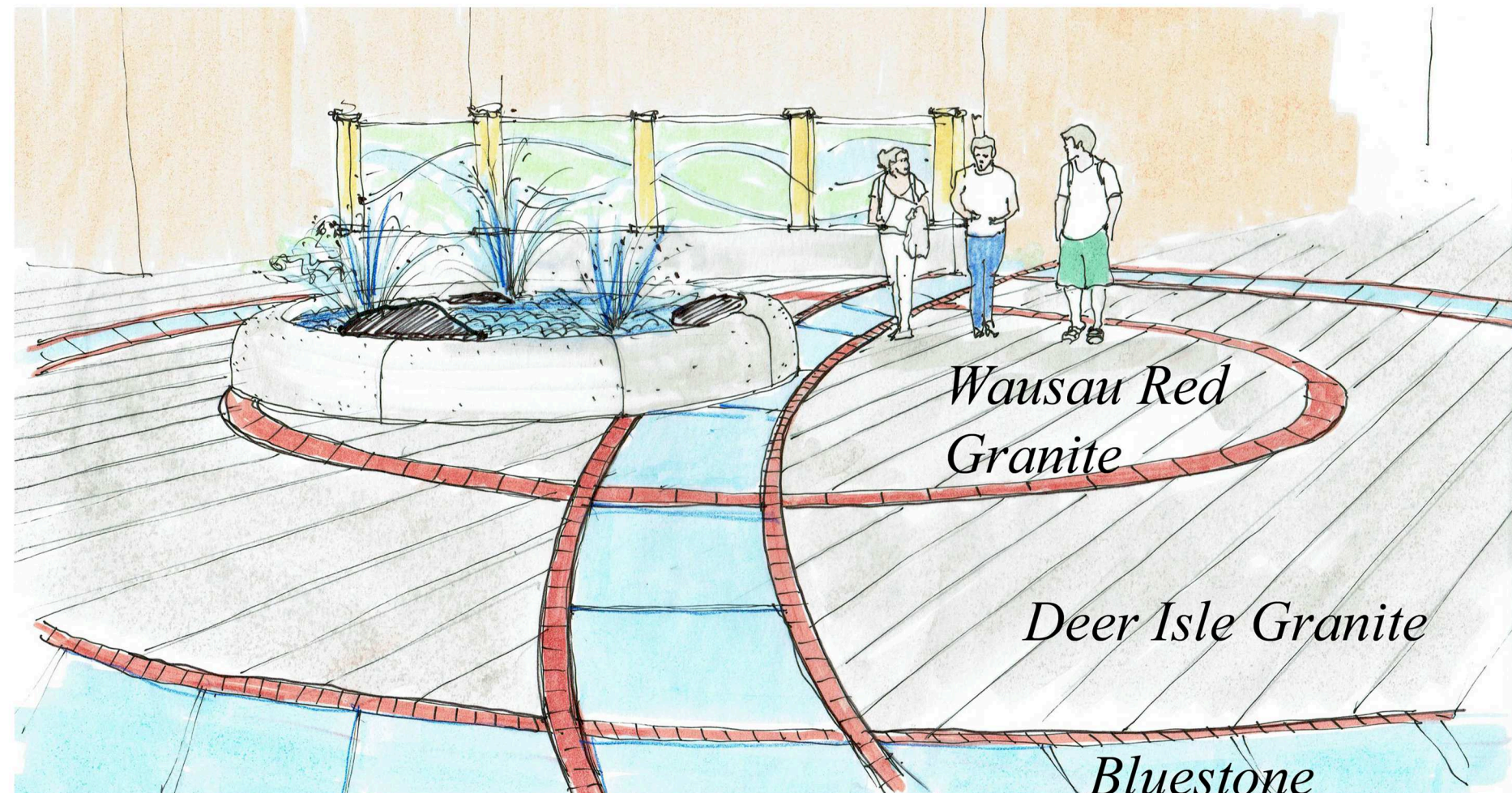
*Bluestone*



*Podium Bench - 6' diameter*

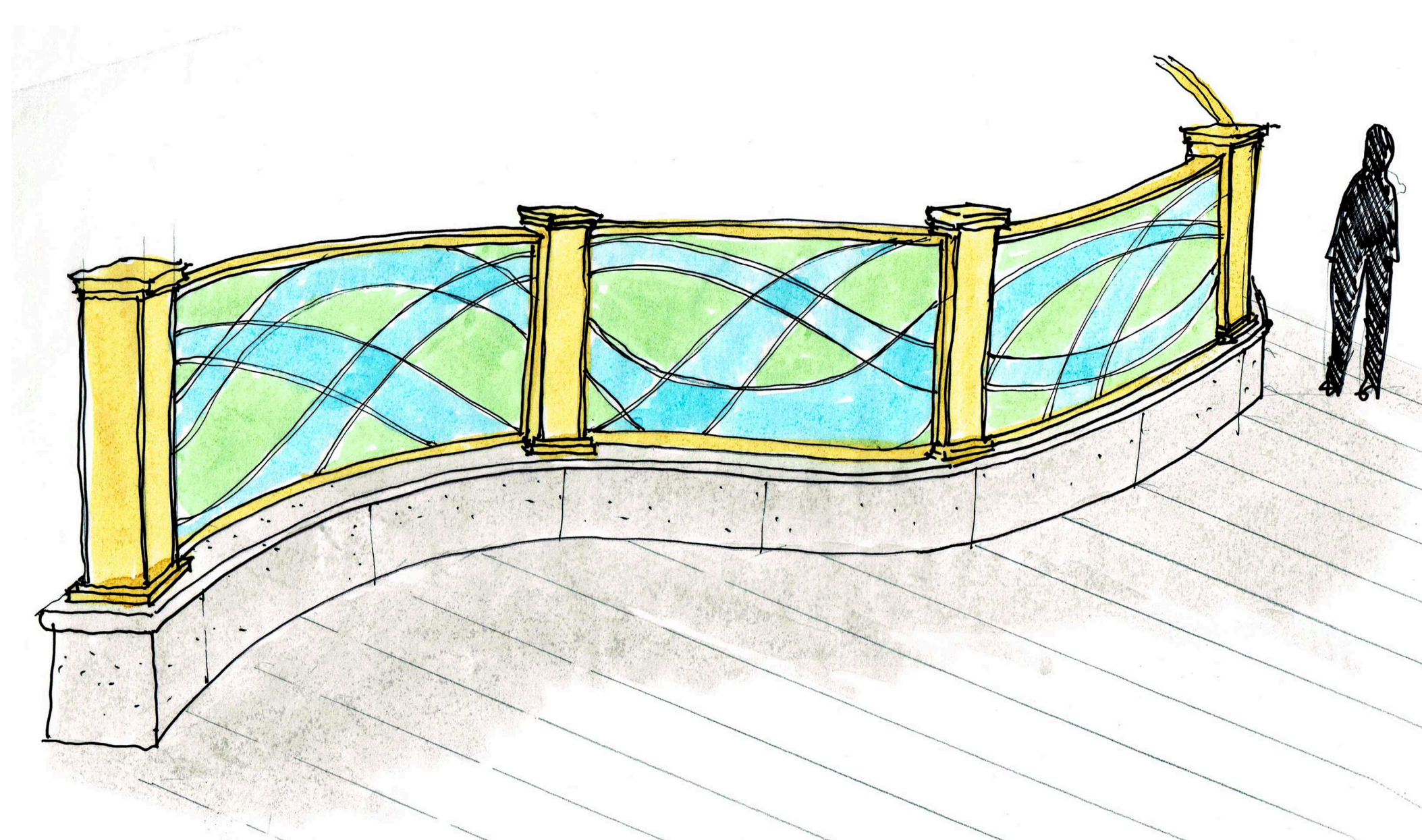


*Wood Bench Top - sits on Deer Isle granite wall base instead of steel feet as shown here 18" w x 14" - 20" base (varies with grade)*



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

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



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





**UTILITY NOTES:**

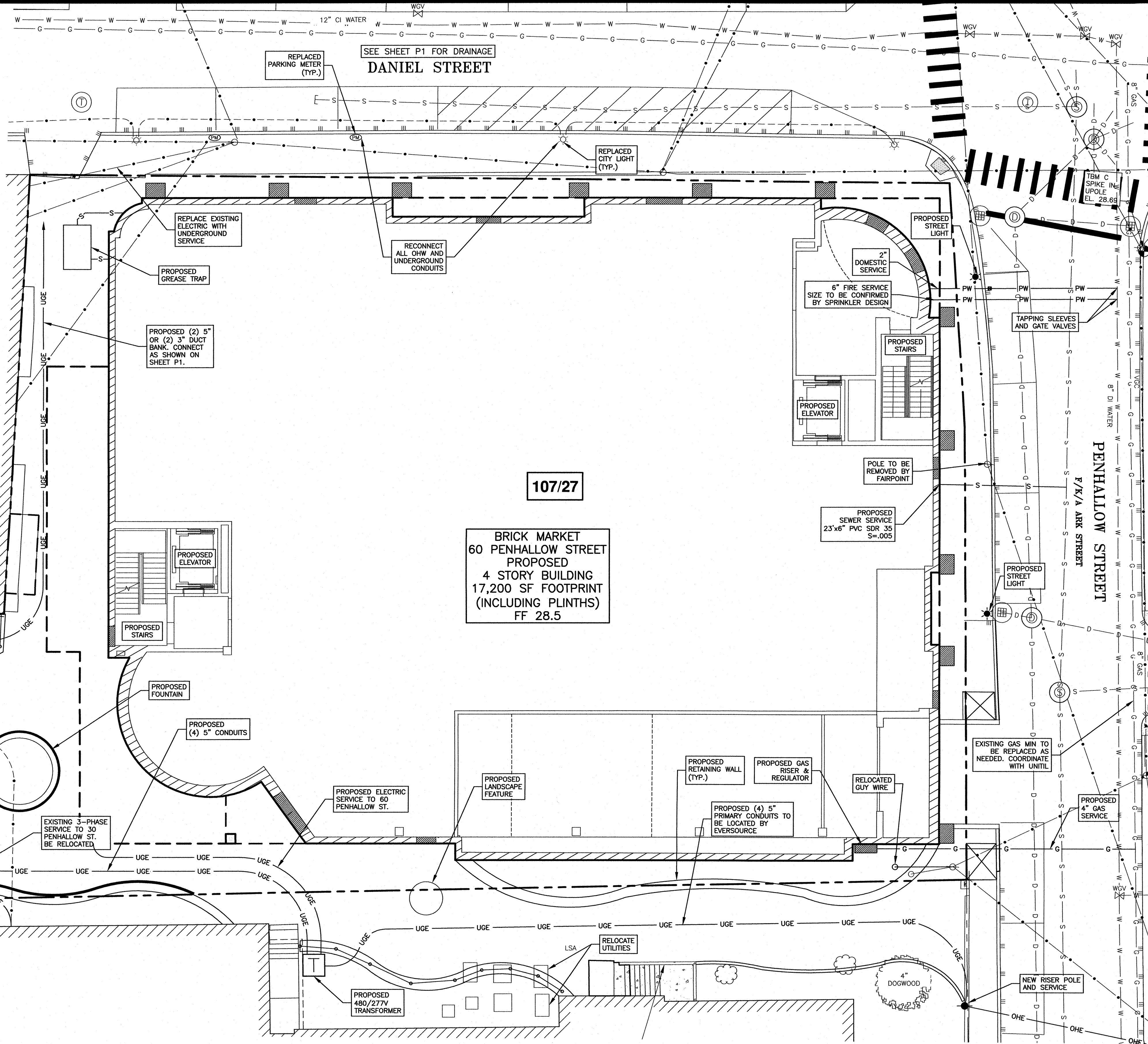
- SEE EXISTING CONDITIONS PLAN FOR BENCHMARK INFORMATION.
- COORDINATE ALL UTILITY WORK WITH APPROPRIATE UTILITY.
- SEE GRADING AND DRAINAGE PLAN FOR PROPOSED GRADING AND EROSION CONTROL MEASURES.
- ALL WATER MAIN INSTALLATIONS SHALL BE CLASS 52, POLYWRAPPED, CEMENT LINED DUCTILE IRON PIPE.
- ALL WATERMAIN INSTALLATIONS SHALL BE PRESSURE TESTED AND CHLORINATED AFTER CONSTRUCTION AND BEFORE ACTIVATING THE SYSTEM. CONTRACTOR SHALL COORDINATE WITH THE CITY OF PORTSMOUTH.
- ALL SEWER PIPE SHALL BE PVC SDR 35 UNLESS OTHERWISE STATED.
- ALL WORK WITHIN CITY R.O.W. SHALL BE COORDINATED WITH CITY OF PORTSMOUTH.
- CONTRACTOR SHALL MAINTAIN UTILITY SERVICES TO ADJUTING PROPERTIES THROUGHOUT CONSTRUCTION.
- ANY CONNECTION TO EXISTING WATERMAIN SHALL BE CONSTRUCTED BY THE CITY OF PORTSMOUTH.
- 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.
- ALL ELECTRICAL MATERIAL WORKMANSHIP SHALL CONFORM TO THE NATIONAL ELECTRIC CODE, LATEST EDITION, AND ALL APPLICABLE STATE AND LOCAL CODES.
- THE EXACT LOCATION OF NEW UTILITY SERVICES AND CONNECTIONS SHALL BE COORDINATED WITH BUILDING DRAWINGS AND UTILITY COMPANIES.
- ADJUST ALL MANHOLES, CATCH BASINS, CURB BOXES, ETC. WITHIN LIMITS OF WORK TO FINISH GRADE.
- ALL UNDERGROUND CONDUITS SHALL HAVE NYLON PULL ROPES TO FACILITATE PULLING CABLES.
- 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.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL MANHOLES, BOXES, FITTINGS, CONNECTORS, COVER PLATES AND OTHER MISCELLANEOUS ITEMS NOT NECESSARILY DETAILED IN THESE DRAWINGS TO RENDER INSTALLATION OF UTILITIES COMPLETE AND OPERATIONAL.
- CONTRACTOR SHALL PROVIDE EXCAVATION, BEDDING, BACKFILL AND COMPACTION FOR NATURAL GAS SERVICES.
- 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.
- SAWCUT AND REMOVE PAVEMENT AND CONSTRUCT PAVEMENT TRENCH PATCH FOR ALL PROPOSED UTILITIES LOCATED IN EXISTING PAVEMENT AREAS TO REMAIN.
- GATE VALVES, FITTINGS, ETC. SHALL MEET THE REQUIREMENTS OF THE CITY OF PORTSMOUTH.
- COORDINATE TESTING OF SEWER CONSTRUCTION WITH THE CITY OF PORTSMOUTH.
- ALL SEWER PIPES WITH LESS THAN 6" COVER SHALL BE INSULATED.
- 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.
- CONTRACTOR SHALL PHASE UTILITY CONSTRUCTION, PARTICULARLY WATER MAIN AND GAS MAIN CONSTRUCTION AS TO MAINTAIN CONTINUOUS SERVICE TO ADJUTING PROPERTIES. CONTRACTOR SHALL COORDINATE TEMPORARY SERVICES TO ADJUTERS WITH UTILITY COMPANY AND AFFECTED ADJUTER.
- 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.
- CONTRACTOR SHALL CONSTRUCT ALL UTILITIES AND DRAINS WITHIN 10' OF THE FOUNDATION WALLS AND CONNECT THESE TO SERVICE STUBS FROM THE BUILDING.
- THE CONTRACTOR SHALL INSTALL THE SEWER LINE AND MANHOLE IN CONSULTATION AND COORDINATION WITH DEPARTMENT OF PUBLIC WORKS.



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

**NOTES:**

- 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.
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- 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).
- 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.
- 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.
- UTILITY AS-BUILTS SHALL BE SUBMITTED TO THE CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC WORKS UPON COMPLETION OF THE PROJECT.
- EVERSOURCE WORK ORDER #3107781
- 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
- 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 ACQUIRED EQUIPMENT INSTALLED, TESTED, AND ACCEPTED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
- ANY HISTORIC SERVICES ENCOUNTERED DURING UTILITY WORK SHALL BE ABANDONED PER THE REQUIREMENTS OF THE PORTSMOUTH DEPARTMENT OF PUBLIC WORKS.

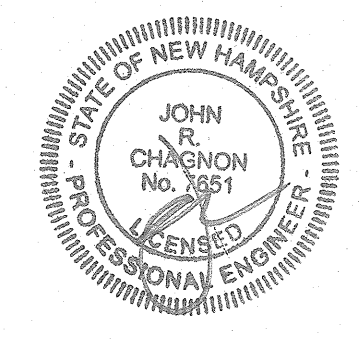


**BRICK MARKET**  
60 PENHALLOW STREET  
PROPOSED  
4 STORY BUILDING  
17,200 SF FOOTPRINT  
(INCLUDING PLINTHS)  
FF 28.5

107/27

**BRICK MARKET**  
60 PENHALLOW STREET  
PORTSMOUTH, N.H.

NO.	DESCRIPTION	DATE
3	NOTE 10, UTILITIES	12/23/19
2	ISSUED FOR DESIGN REVIEW	12/2/19
1	ISSUED FOR APPROVAL	11/18/19
0	ISSUED FOR COMMENT	10/8/19



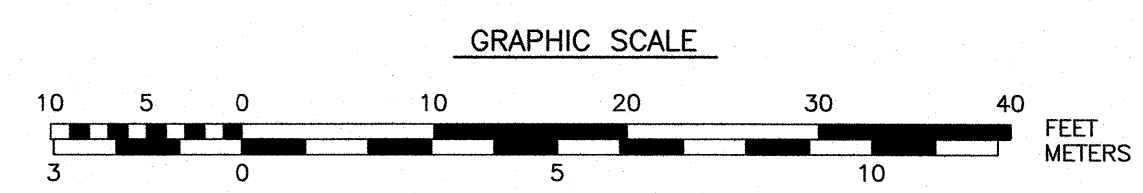
SCALE: 1"=10" MAY 2019

**UTILITY PLAN**

**C4**

APPROVED BY THE PORTSMOUTH PLANNING BOARD

CHAIRMAN \_\_\_\_\_ DATE \_\_\_\_\_



J:\JOBS\3000\3000\3030\3030\2019 Site Development 60 Penhallow\Plans & Specs\Site\3039 SITE 60 PENHALLOW.dwg, CA UTILITY

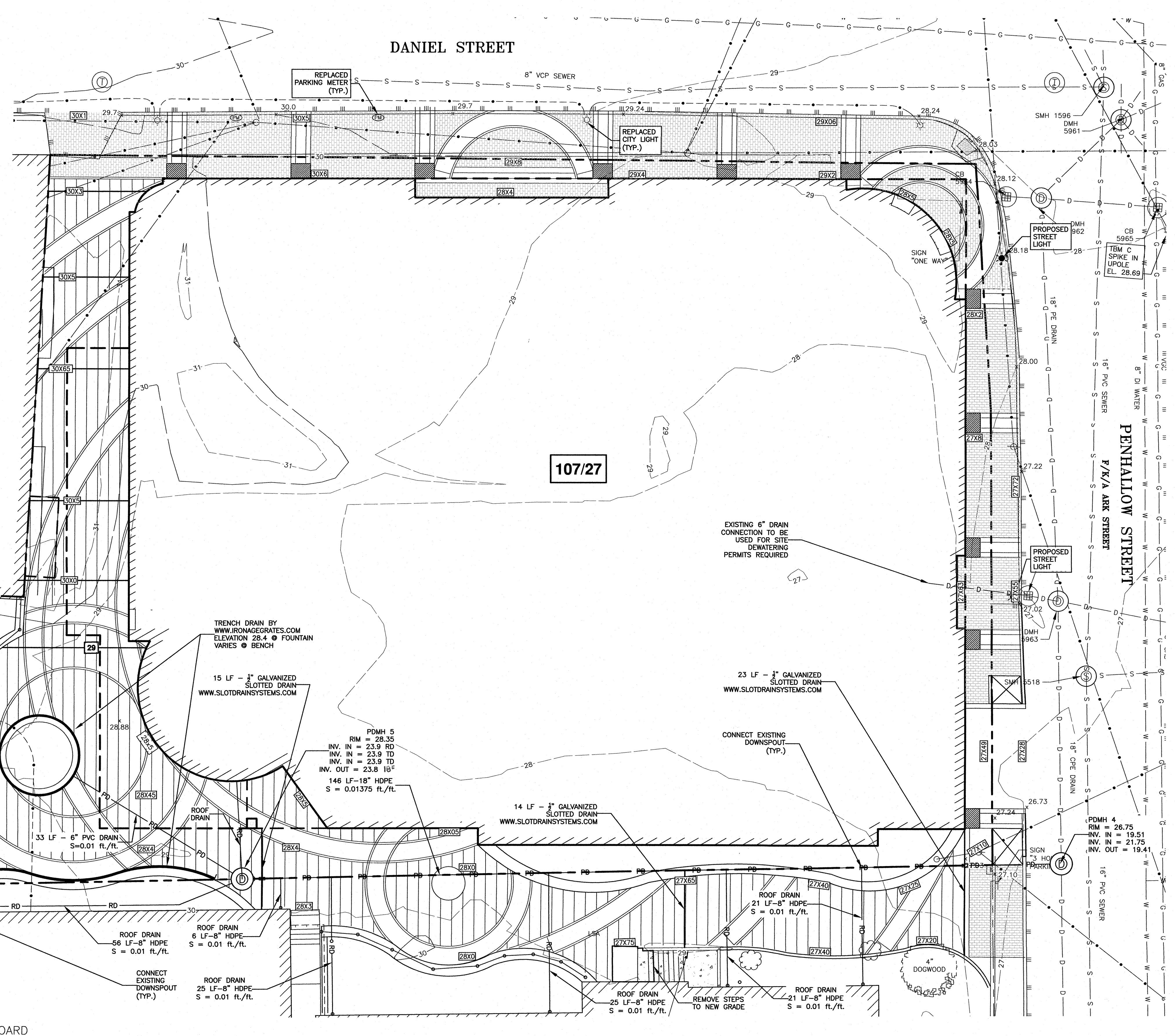




**AMBIT ENGINEERING, INC.**  
Civil Engineers & Land Surveyors  
200 Griffin Road - Unit 3  
Portsmouth, N.H. 03801-7114  
Tel (603) 430-9282  
Fax (603) 436-2315

**DRAIN STRUCTURE TABLE**

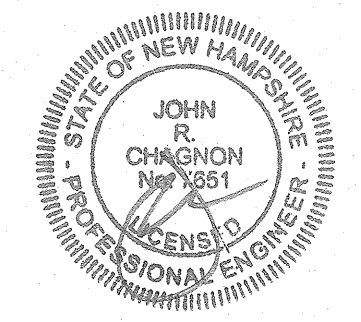
STRUCTURE	RIM ELEV.	INV. ELEV. IN	DOWNSTREAM STRUCTURE
PIPE			
DMH 5961	28.52	21.87 6" CLAY 22.07 6" CLAY 24.19 6" CLAY 22.37 6" CLAY 23.12 15" HDPE	DMH 5962
15" HDPE	L = 16 LF, S = 0.0213 ft./ft.		
CB 5964	27.76	24.43 12" HDPE	DMH 5962
12" HDPE	L = 2 LF, S = 0.10 ft./ft.		
DMH 5962	27.99	24.23 12" HDPE 22.78 15" HDPE 23.35 12" HDPE 22.79 18" HDPE	DMH 5963
18" HDPE	L = 68 LF, S = 0.0209 ft./ft.		
CB 5966	27.05	23± 6" DRAIN 23.62 12" HDPE	DMH 5963
12" HDPE	L = 2 LF, S = 0.075 ft./ft.		
DMH 5963	27.10	23.47 12" HDPE 21.37 18" HDPE 21.28 12" HDPE 21.12 18" HDPE	DMH 5958
18" HDPE	L = 83 LF, S = 0.0143 ft./ft.		
DMH 5958	26.29	22.59 12" HDPE 19.93 18" HDPE 22.17 12" HDPE 19.91 18" HDPE	DMH 5957 NOT FOUND
18" HDPE	L = ?, S = ?		
CB 4265	27.30	24.14 12" RCP	CB 4267
12" RCP	L = 62 LF, S = 0.005 ft./ft.		
CB 4266	27.34	24.14 12" RCP	CB 4267
12" RCP	L = 24 LF, S = 0.0125 ft./ft.		
CB 4267	26.84	23.82 12" RCP 23.84 12" RCP 23.49 12" HDPE	CB 5966



- 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 WITHIN 100 FEET OF UNDERGROUND UTILITIES. THE EXCAVATOR IS RESPONSIBLE TO MAINTAIN MARKS.
  - 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.
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  - 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.**

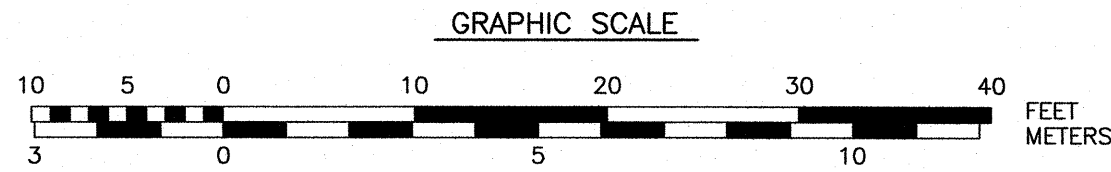
NO.	DESCRIPTION	DATE
3	DRAIN PIPE SIZE	12/23/19
2	ISSUED FOR DESIGN REVIEW	12/21/19
1	ISSUED FOR APPROVAL	11/18/19
0	ISSUED FOR COMMENT	10/8/19



SCALE: 1"=10' MAY 2019

**GRADING AND DRAINAGE  
PLAN**

**C5**



APPROVED BY THE PORTSMOUTH PLANNING BOARD

CHAIRMAN \_\_\_\_\_ DATE \_\_\_\_\_

H:\JOBS\3000\3000\3000\3039\2019\_Site\_Development\_60\_Penhallow\Plans & Specs\Site\3039\_Site\_60\_Penhallow.dwg, CS\_DRAIN\_GRADE

2000  
MAGNETIC  
R.C.R.D. PLAN  
C-28714



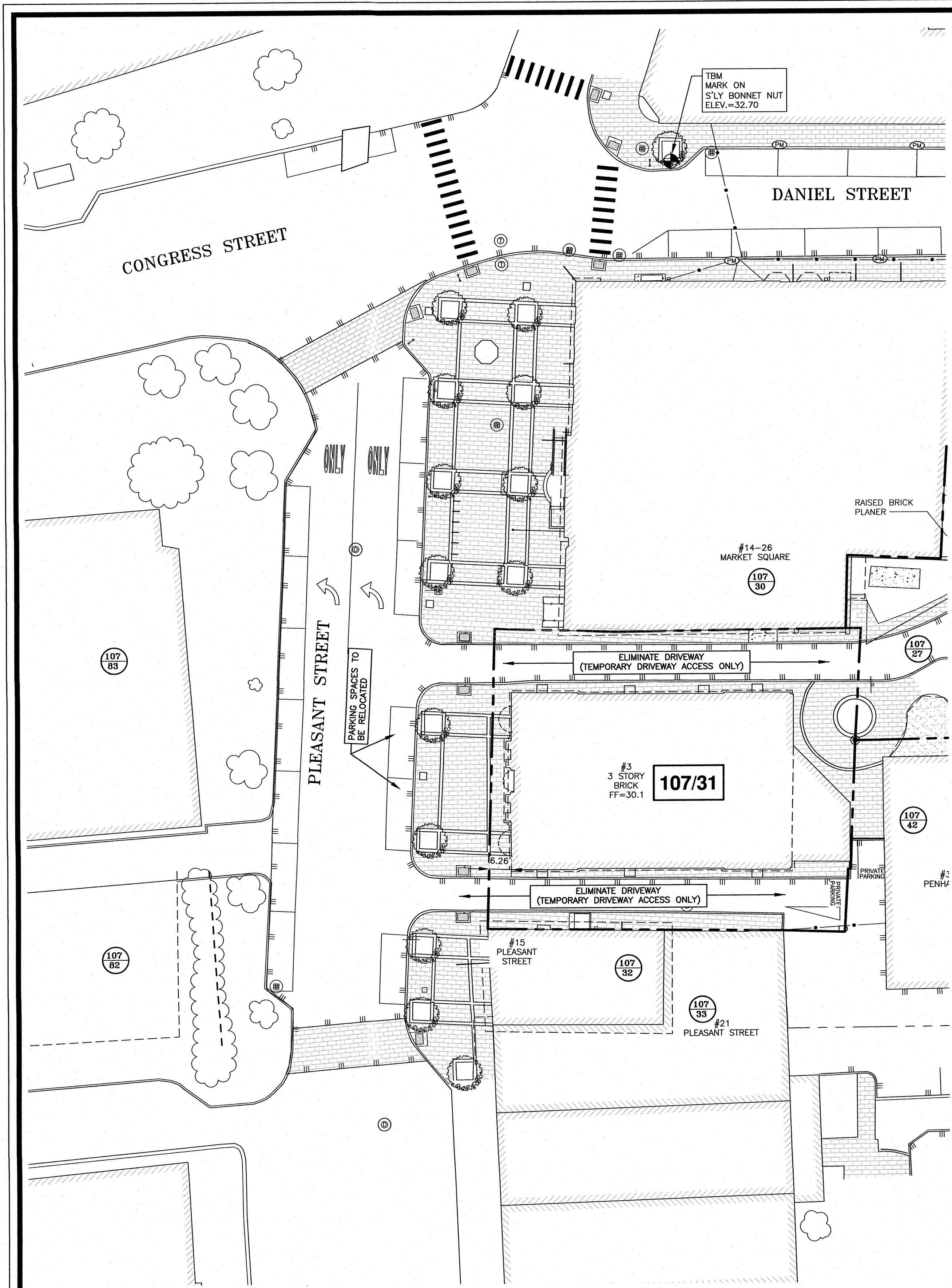


**AMBIT ENGINEERING, INC.**  
Civil Engineers & Land Surveyors

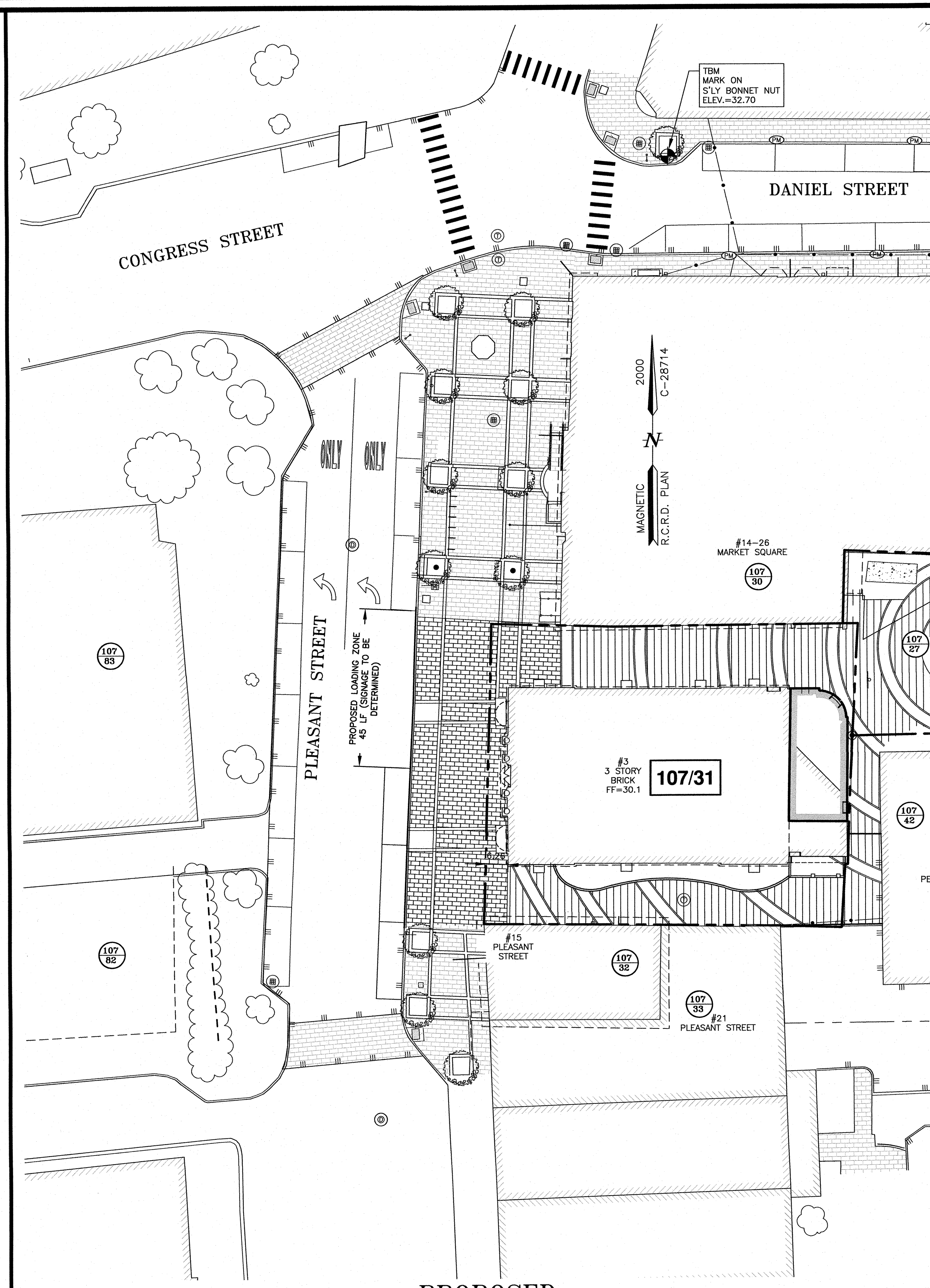
200 Griffin Road - Unit 3  
Portsmouth, N.H. 03801-7114  
Tel (603) 430-9282  
Fax (603) 436-2315

**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.



**EXISTING**

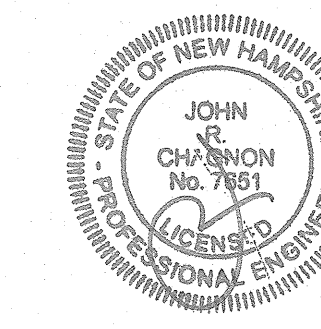
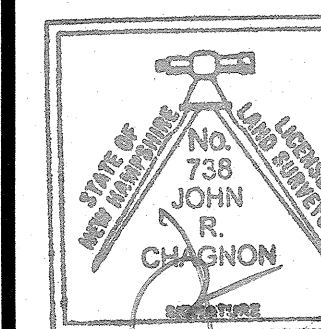


**PROPOSED**

**BRICK MARKET  
60 PENHALLOW STREET  
PORTSMOUTH, N.H.**

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

NO.	DESCRIPTION	DATE
REVISIONS		

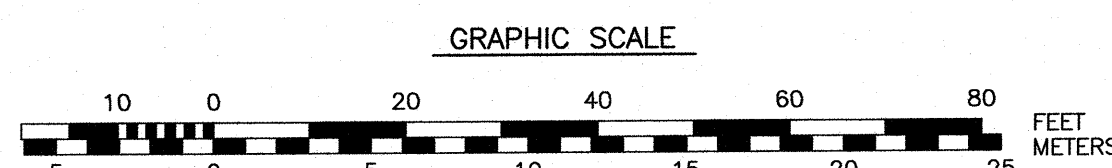


SCALE: 1"=20'

AUGUST 2019

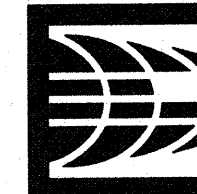
**OFFSITE  
IMPROVEMENT PLAN  
3 PLEASANT STREET**

**C6**



1/17/2019 10:03:11 AM

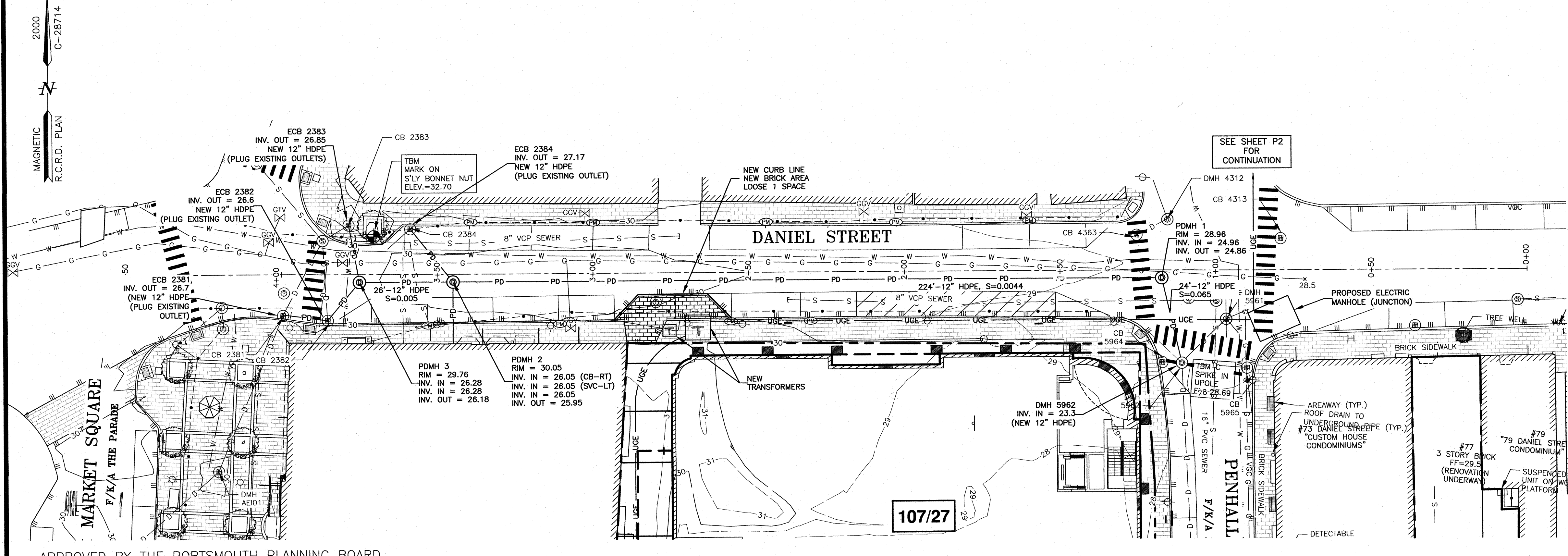
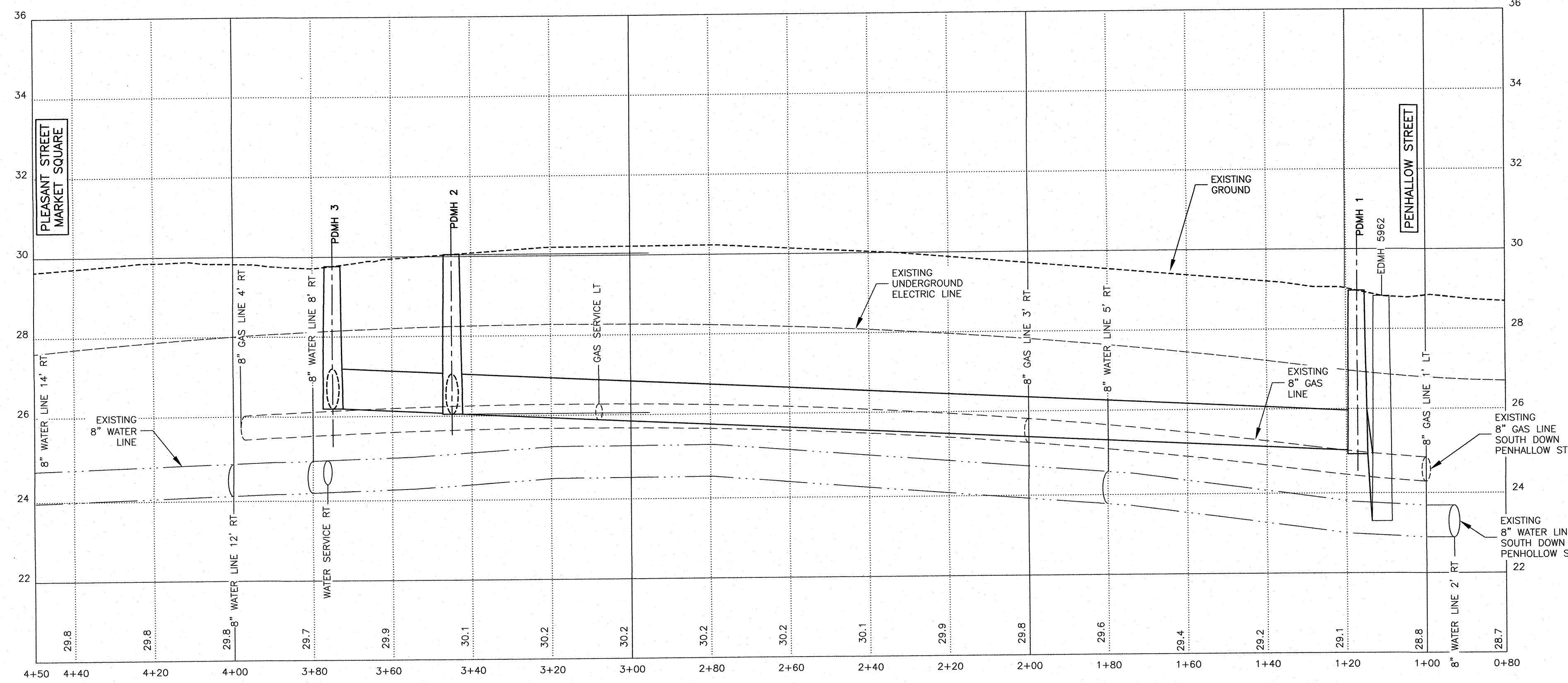




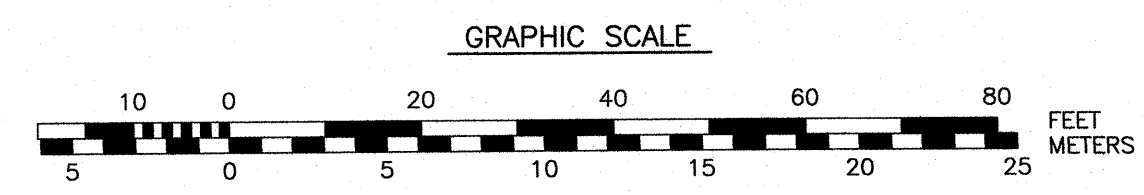
**AMBIT ENGINEERING, INC.**  
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- 4) CITY SHALL BE NOTIFIED IF THERE ARE ANY CONFLICTS WITH PROPOSED DRAINAGE PIPES UNCOVERED DURING CONSTRUCTION. REVIEW AND APPROVAL OF REMEDIES, BY THE CITY, REQUIRED.
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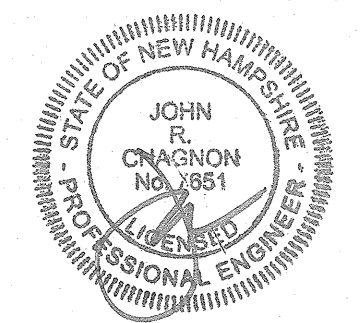


APPROVED BY THE PORTSMOUTH PLANNING BOARD



**BRICK MARKET  
60 PENHALLOW STREET  
PORTSMOUTH, N.H.**

NO.	DESCRIPTION	DATE
0	ISSUED FOR COMMENT	12/23/19
REVISIONS		



SCALE: 1"=20' MAY 2019

**DANIEL STREET  
OFFSITE IMPROVEMENTS**

**P1**

J:\JOBS\3\UN 3030\UN 3030\2019 Site Development 60 Penhallow.dwg, P1 DANIEL STREET

2000  
C-28714  
MAGNETIC  
R.C.R.D. PLAN



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200 Griffin Road - Unit 3  
Portsmouth, N.H. 03801-7114  
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**NOTES:**

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- 4) COORDINATE ALL WORK WITH EVERSOURCE - UTILIZING FINAL APPROVED PLANS

**BRICK MARKET  
60 PENHALLOW STREET  
PORTSMOUTH, N.H.**

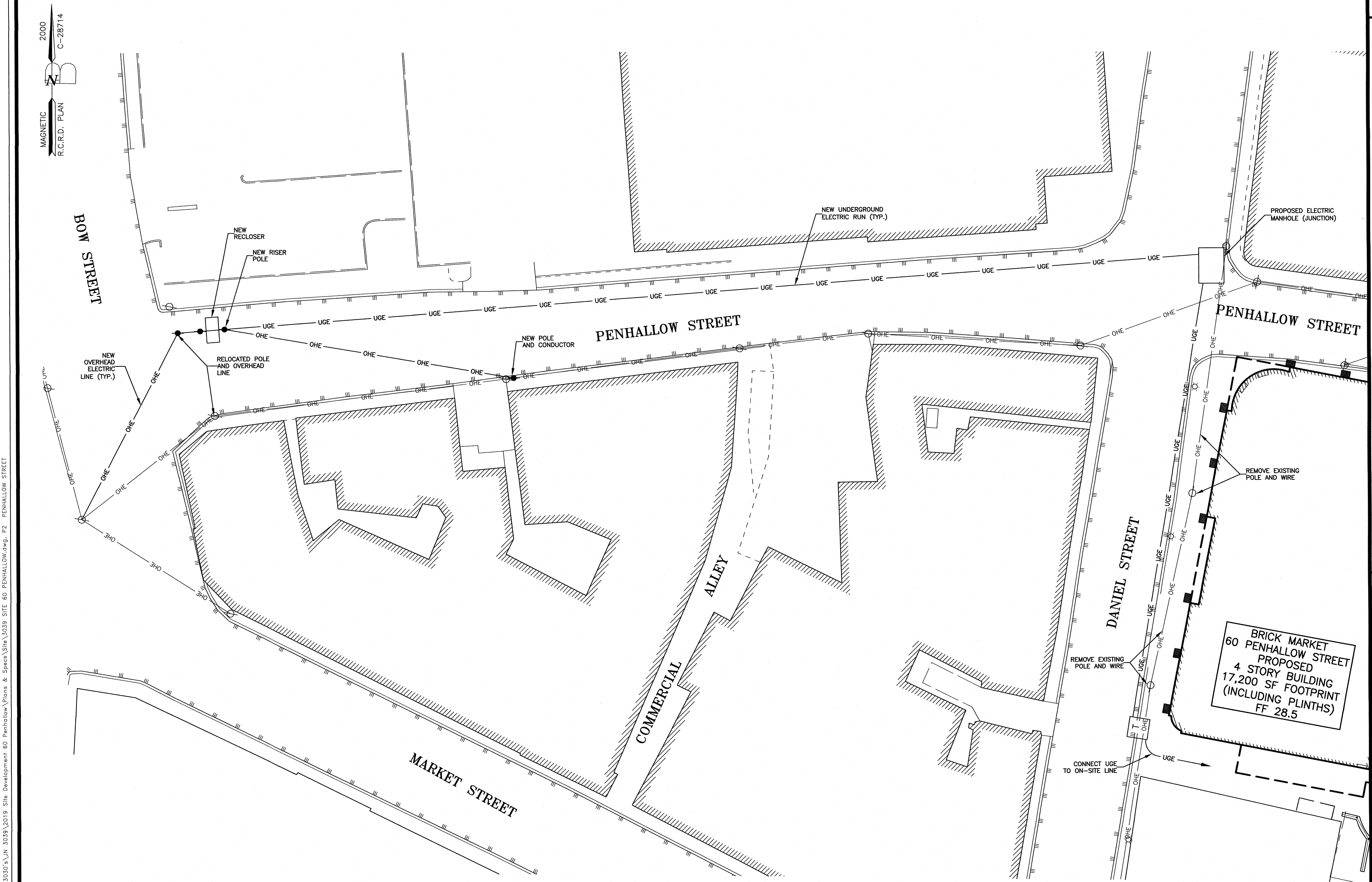
BRICK MARKET  
60 PENHALLOW STREET  
PROPOSED  
4 STORY BUILDING  
17,200 SF FOOTPRINT  
(INCLUDING PLINTHS)  
FF 28.5

NO.	DESCRIPTION	DATE
0	ISSUED FOR COMMENT	12/23/19
REVISIONS		

SCALE: 1"=20' DECEMBER 2019

**PENHALLOW STREET  
OFFSITE IMPROVEMENTS**

**P2**



APPROVED BY THE PORTSMOUTH PLANNING BOARD

CHAIRMAN \_\_\_\_\_ DATE \_\_\_\_\_

J:\JOBS3\JUN 3000's\JUN 3039\2019 Site Development 60 Penhallow\Plans & Specs\Site\3039 SITE 60 PENHALLOW.dwg, P2 - PENHALLOW STREET



# EROSION CONTROL NOTES

## CONSTRUCTION SEQUENCE

DO NOT BEGIN CONSTRUCTION UNTIL ALL LOCAL, STATE AND FEDERAL PERMITS HAVE BEEN APPLIED FOR AND RECEIVED.

THE CONTRACTOR SHALL OBTAIN AN NPDES PHASE II STORMWATER PERMIT AND SUBMIT A NOTICE OF INTENT (N.O.I) BEFORE BEGINNING CONSTRUCTION AND SHALL HAVE ON SITE A STORMWATER POLLUTION PREVENTION PLAN (S.W.P.P.P.) AVAILABLE FOR INSPECTION BY THE PERMITTING AUTHORITY DURING THE CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CARRYING OUT THE S.W.P.P.P. AND INSPECTING AND MAINTAINING ALL BMP'S CALLED FOR BY THE PLAN. THE CONTRACTOR SHALL SUBMIT A NOTICE OF TERMINATION (N.O.T.) FORM TO THE REGIONAL EPA OFFICE WITHIN 30 DAYS OF FINAL STABILIZATION OF THE ENTIRE SITE OR TURNING OVER CONTROL OF THE SITE TO ANOTHER OPERATOR.

INSTALL PERIMETER CONTROLS, I.E., SILT/SOXX, FODS AND CATCH BASIN PROTECTION AROUND THE LIMITS OF DISTURBANCE BEFORE ANY CONSTRUCTION. THE USE OF HAYBALES IS NOT ALLOWED.

REMOVE DEBRIS AND RUBBISH AS REQUIRED. DEMOLISH BUILDINGS AND OTHER IMPROVEMENTS AS SHOWN ON THE PLANS.

CUT AND CAP IMPACTED UTILITIES AS DIRECTED BY UTILITY PROVIDERS.

CONSTRUCT OFF SITE UTILITY IMPROVEMENTS NECESSARY TO CONSTRUCT BUILDING.

CONSTRUCT FOUNDATION

LAYOUT AND INSTALL ALL BURIED UTILITIES AND SERVICES UP TO THE PROPOSED BUILDING FOUNDATION. CAP AND MARK TERMINATIONS OR LOG SWING TIES.

BEGIN BUILDING CONSTRUCTION.

CONNECT UTILITIES AS NEEDED.

PLACE BASE MATERIALS IN WALKWAYS AND PROTECT.

CONTINUE BUILDING CONSTRUCTION.

PLANT LANDSCAPING IN AREAS OUT OF WAY OF BUILDING CONSTRUCTION. CONSTRUCT OTHER SITE IMPROVEMENTS.

AFTER BUILDINGS ARE COMPLETED, FINISH ALL REMAINING WORK.

REMOVE TRAPPED SEDIMENTS FROM COLLECTION DEVICES AS APPROPRIATE, AND THEN REMOVE TEMPORARY EROSION CONTROL MEASURES UPON COMPLETION OF FINAL STABILIZATION OF THE SITE.

## GENERAL CONSTRUCTION NOTES

THE EROSION CONTROL PROCEDURES SHALL CONFORM TO SECTION 645 OF THE "STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION" OF THE NHDOT, AND "STORM WATER MANAGEMENT AND EROSION AND SEDIMENT CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS IN NEW HAMPSHIRE". THE PROJECT IS TO BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER AGR 3800 RELATIVE TO INVASIVE SPECIES.

DURING CONSTRUCTION AND THEREAFTER, EROSION CONTROL MEASURES ARE TO BE IMPLEMENTED AS NOTED. THE SMALLEST PRACTICAL AREA OF LAND SHOULD BE EXPOSED AT ANY ONE TIME DURING DEVELOPMENT. NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED FOR MORE THAN 45 DAYS.

ANY DISTURBED AREAS WHICH ARE TO BE LEFT TEMPORARILY, AND WHICH WILL BE REGRADED LATER DURING CONSTRUCTION SHALL BE MACHINE HAY MULCHED AND SEEDED WITH RYE GRASS TO PREVENT EROSION.

DUST CONTROL: IF TEMPORARY STABILIZATION PRACTICES, SUCH AS TEMPORARY VEGETATION AND MULCHING, DO NOT ADEQUATELY REDUCE DUST GENERATION, APPLICATION OF WATER OR CALCIUM CHLORIDE SHALL BE APPLIED IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES.

SILT FENCES AND SILT/SOXX SHALL BE PERIODICALLY INSPECTED DURING THE LIFE OF THE PROJECT AND AFTER EACH STORM. ALL DAMAGED SILT FENCES AND SILT/SOXX SHALL BE REPAIRED. SEDIMENT DEPOSITS SHALL PERIODICALLY BE REMOVED AND DISPOSED IN A SECURED LOCATION.

AVOID THE USE OF FUTURE OPEN SPACES ( LOAM AND SEED AREAS ) WHEREVER POSSIBLE DURING CONSTRUCTION. CONSTRUCTION TRAFFIC SHALL USE THE ROADBEDS OF FUTURE ACCESS DRIVES AND PARKING AREAS.

ADDITIONAL TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED IN AMOUNTS NECESSARY TO COMPLETE FINISHED GRADING OF ALL EXPOSED AREAS--CONSTRUCT SILT FENCE OR SILT/SOXX AROUND TOPSOIL STOCKPILE.

AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS OR OTHER OBJECTIONABLE MATERIAL. STUMPS SHALL BE DISPOSED OF IN AN APPROVED FACILITY.

ALL FILLS SHALL BE PLACED AND COMPACTED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS.

ALL NON-STRUCTURAL, SITE-FILL SHALL BE PLACED AND COMPACTED TO 90% MODIFIED PROCTOR DENSITY IN LAYERS NOT EXCEEDING 18 INCHES IN THICKNESS UNLESS OTHERWISE NOTED.

FROZEN MATERIAL OR SOFT, MUCKY OR HIGHLY COMPRESSIBLE MATERIAL, TRASH, WOODY DEBRIS, LEAVES, BRUSH OR ANY DELETERIOUS MATTER SHALL NOT BE INCORPORATED INTO FILLS.

FILL MATERIAL SHALL NOT BE PLACED ON FROZEN FOUNDATION SUBGRADE.

DURING CONSTRUCTION AND UNTIL ALL DEVELOPED AREAS ARE FULLY STABILIZED, ALL EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND AFTER EACH ONE HALF INCH OF RAINFALL.

THE CONTRACTOR SHALL MODIFY OR ADD EROSION CONTROL MEASURES AS NECESSARY TO ACCOMMODATE PROJECT CONSTRUCTION.

ALL ROADWAYS AND PARKING AREAS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE. ALL CUT AND FILL SLOPES SHALL BE SEEDED/LOAMED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.

AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:

- BASE COURSE GRAVELS HAVE BEEN INSTALLED ON AREAS TO BE PAVED
- A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED
- A MINIMUM OF 3 INCHES OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIPRAP HAS BEEN INSTALLED
- EROSION CONTROL BLANKETS HAVE BEEN INSTALLED

## VEGETATIVE PRACTICE

FOR PERMANENT MEASURES AND PLANTINGS:

LIMESTONE SHALL BE THOROUGHLY INCORPORATED INTO THE LOAM LAYER AT A RATE OF 2 TONS PER ACRE.

FERTILIZER SHALL BE SPREAD ON THE TOP LAYER OF LOAM AND WORKED INTO THE SURFACE. FERTILIZER APPLICATION RATE SHALL BE 500 POUNDS PER ACRE OF 10-20-20 FERTILIZER.

SEED SHALL BE SOWN AT THE RATES SHOWN IN THE TABLE BELOW. IMMEDIATELY BEFORE SEEDING, THE SOIL SHALL BE LIGHTLY RAKED. ONE HALF THE SEED SHALL BE SOWN IN ONE DIRECTION AND THE OTHER HALF AT RIGHT ANGLES TO THE ORIGINAL DIRECTION. IT SHALL BE LIGHTLY RAKED INTO THE SOIL TO A DEPTH NOT OVER 1/4 INCH AND ROLLED WITH A HAND ROLLER WEIGHING NOT OVER 100 POUNDS PER LINEAR FOOT OF WIDTH. HAY MULCH SHALL BE APPLIED IMMEDIATELY AFTER SEEDING AT A RATE OF 1.5 TO 2 TONS PER ACRE, AND SHALL BE HELD IN PLACE USING APPROPRIATE TECHNIQUES FROM THE EROSION AND SEDIMENT CONTROL HANDBOOK.

THE SURFACE SHALL BE WATERED AND KEPT MOIST WITH A FINE SPRAY AS REQUIRED, WITHOUT WASHING AWAY THE SOIL, UNTIL THE GRASS IS WELL ESTABLISHED. ANY AREAS WHICH ARE NOT SATISFACTORILY COVERED SHALL BE RESEEDED, AND ALL NOXIOUS WEEDS REMOVED.

A GRASS SEED MIXTURE CONTAINING THE FOLLOWING SEED REQUIREMENTS SHALL BE:

GENERAL COVER	PROPORTION	SEEDING RATE
CREeping RED FESCUE	50%	100 LBS/ACRE
KENTUCKY BLUEGRASS	50%	

SLOPE SEED (USED ON ALL SLOPES GREATER THAN OR EQUAL TO 3:1)

CREeping RED FESCUE	42%	
TALL FESCUE	42%	48 LBS/ACRE
BIRDSFOOT TREFOL	16%	

IN NO CASE SHALL THE WEED CONTENT EXCEED ONE PERCENT BY WEIGHT. ALL SEED SHALL COMPLY WITH APPLICABLE STATE AND FEDERAL SEED LAWS.

FOR TEMPORARY PROTECTION OF DISTURBED AREAS:  
MULCHING AND SEEDING SHALL BE APPLIED AT THE FOLLOWING RATES:

PERENNIAL RYE:	0.7 LBS/1,000 S.F.
MULCH:	1.5 TONS/ACRE

## MAINTENANCE AND PROTECTION

THE CONTRACTOR SHALL MAINTAIN ALL LOAM & SEED AREAS UNTIL FINAL ACCEPTANCE AT THE COMPLETION OF THE CONTRACT. MAINTENANCE SHALL INCLUDE WATERING, WEEDING, REMOVAL OF STONES AND OTHER FOREIGN OBJECTS OVER 1/2 INCHES IN DIAMETER WHICH MAY APPEAR AND THE FIRST TWO (2) CUTTINGS OF GRASS NO CLOSER THEN TEN (10) DAYS APART. THE FIRST CUTTING SHALL BE ACCOMPLISHED WHEN THE GRASS IS FROM 2 1/2 TO 3 INCHES HIGH. ALL BARE AND DEAD SPOTS WHICH BECOME APPARENT SHALL BE PROPERLY PREPARED, LIMED AND FERTILIZED, AND RESEEDED BY THE CONTRACTOR AT HIS EXPENSE AS MANY TIMES AS NECESSARY TO SECURE GOOD GROWTH. THE ENTIRE AREA SHALL BE MAINTAINED, WATERED AND CUT UNTIL ACCEPTANCE OF THE LAWN BY THE OWNER'S REPRESENTATIVE.

THE CONTRACTOR SHALL TAKE WHATEVER MEASURES ARE NECESSARY TO PROTECT THE GRASS WHILE IT IS DEVELOPING.

TO BE ACCEPTABLE, SEEDED AREAS SHALL CONSIST OF A UNIFORM STAND OF AT LEAST 90 PERCENT ESTABLISHED PERMANENT GRASS SPECIES, WITH UNIFORM COUNT OF AT LEAST 100 PLANTS PER SQUARE FOOT.

SEEDED AREAS WILL BE FERTILIZED AND RESEEDED AS NECESSARY TO INSURE VEGETATIVE ESTABLISHMENT.

THE SWALES WILL BE CHECKED WEEKLY AND REPAIRED WHEN NECESSARY UNTIL ADEQUATE VEGETATION IS ESTABLISHED.

THE SILT FENCE OR SILT/SOXX BARRIER SHALL BE CHECKED AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.

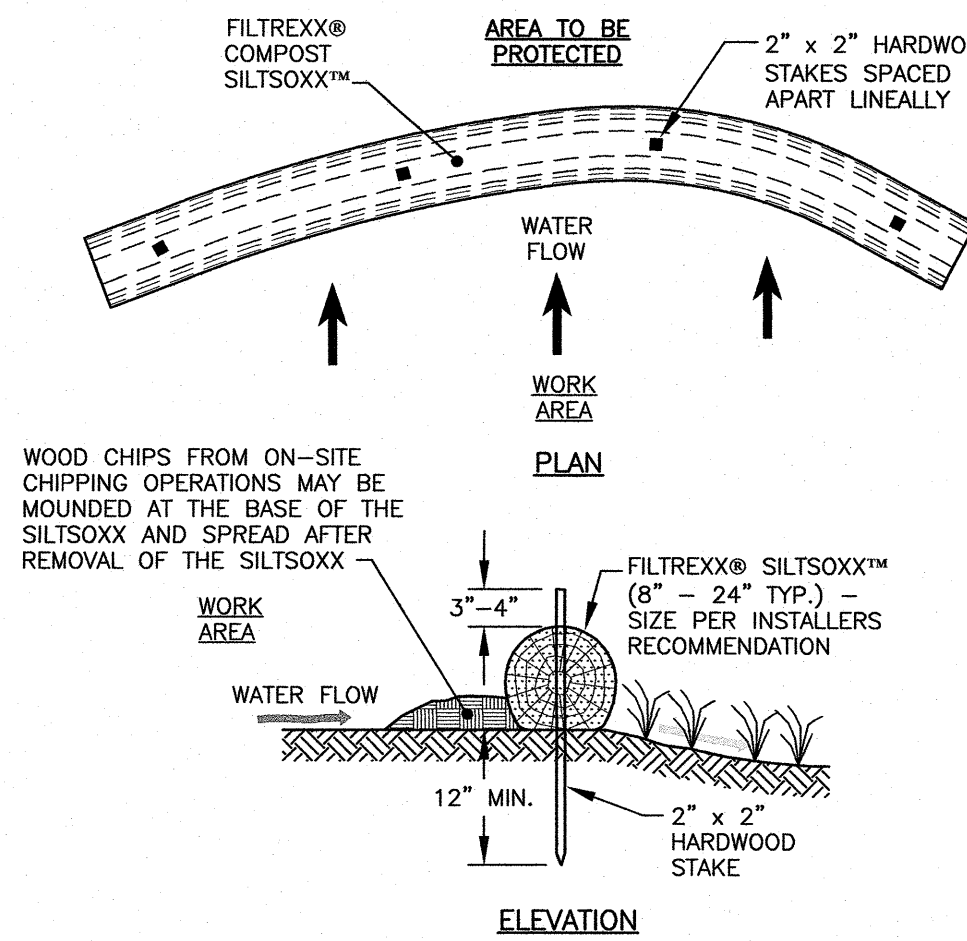
SILT FENCING AND SILT/SOXX SHALL BE REMOVED ONCE VEGETATION IS ESTABLISHED, AND DISTURBED AREAS RESULTING FROM SILT FENCE AND SILT/SOXX REMOVAL SHALL BE PERMANENTLY SEEDED.

## WINTER NOTES

ALL PROPOSED VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.

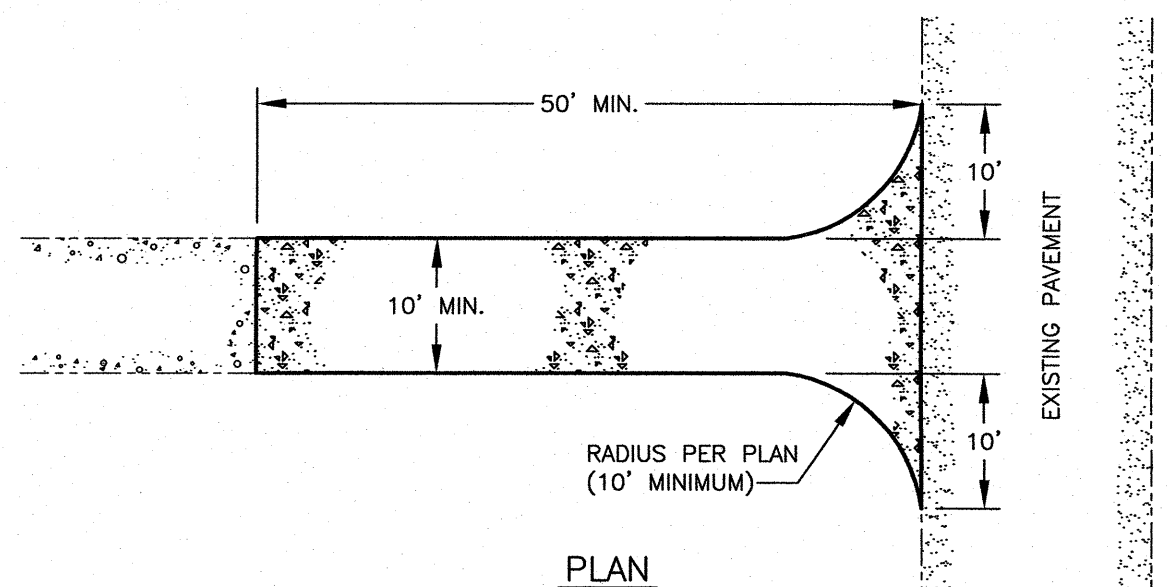
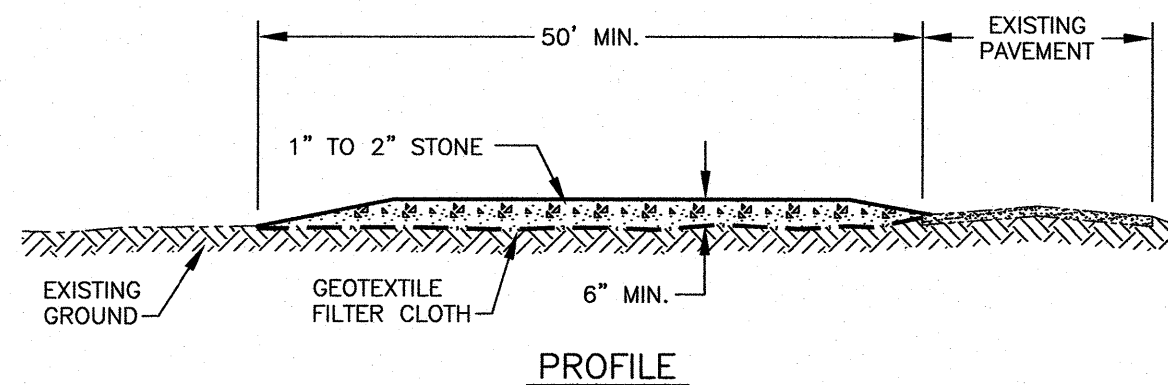
ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.

AFTER NOVEMBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF CRUSHED GRAVEL PER NHDOT ITEM 304.3.



- NOTES:
1. ALL MATERIAL TO MEET FILTREXX SPECIFICATIONS.
  2. FILTREXX SYSTEM SHALL BE INSTALLED BY A CERTIFIED FILTREXX INSTALLER.
  3. THE CONTRACTOR SHALL MAINTAIN THE COMPOST FILTRATION SYSTEM IN A FUNCTIONAL CONDITION AT ALL TIMES. IT WILL BE ROUTINELY INSPECTED AND REPAIRED WHEN REQUIRED.
  4. SILT/SOXX DEPICTED IS FOR MINIMUM SLOPES, GREATER SLOPES MAY REQUIRE ADDITIONAL PLACEMENTS.
  5. THE COMPOST FILTER MATERIAL WILL BE DISPERSED ON SITE WHEN NO LONGER REQUIRED, AS DETERMINED BY THE ENGINEER.

## A FILTREXX® SILT/SOXX™ FILTRATION SYSTEM (IF NEEDED) NTS



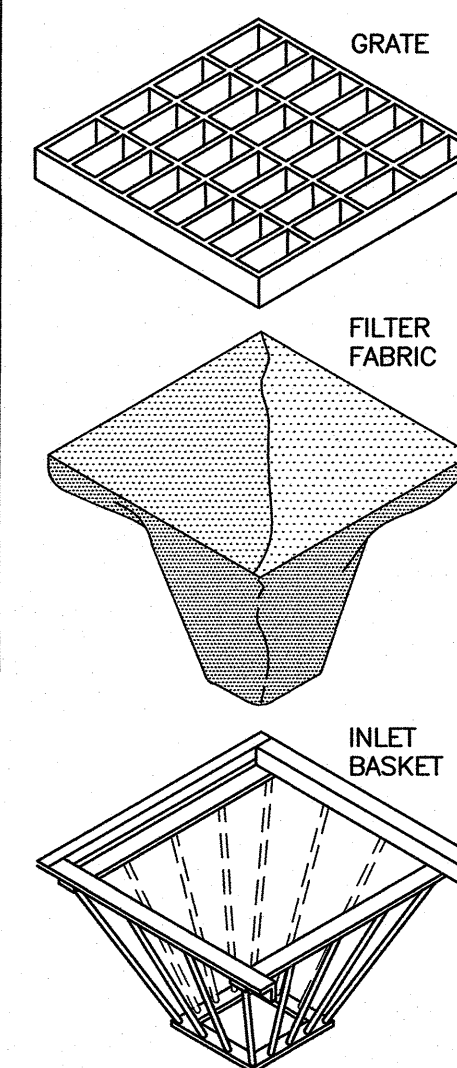
## MAINTENANCE

- 1) MUD AND SOIL PARTICLES WILL EVENTUALLY CLOG THE VOIDS IN THE GRAVEL AND THE EFFECTIVENESS OF THE GRAVEL PAD WILL NOT BE SATISFACTORY. WHEN THIS OCCURS, THE PAD SHOULD BE TOP DRESSED WITH NEW STONE. COMPLETE REPLACEMENT OF THE PAD MAY BE NECESSARY WHEN THE PAD BECOMES COMPLETELY CLOGGED.
- 2) IF WASHING FACILITIES ARE USED, THE SEDIMENT TRAPS SHOULD BE CLEANED OUT AS OFTEN AS NECESSARY TO ASSURE THAT ADEQUATE TRAPPING EFFICIENCY AND STORAGE VOLUME IS AVAILABLE. VEGETATIVE FILTER STRIPS SHOULD BE MAINTAINED TO INSURE A VIGOROUS STAND OF VEGETATION AT ALL TIMES.

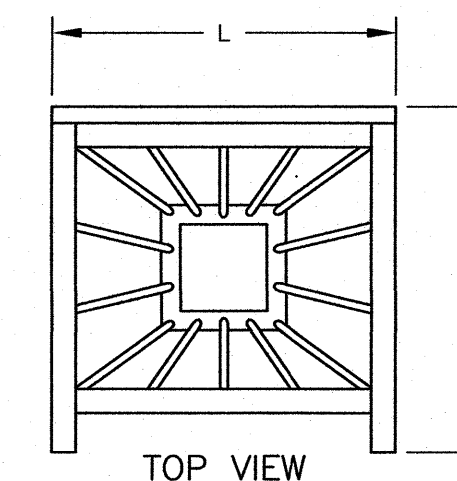
## CONSTRUCTION SPECIFICATIONS

- 1) STONE FOR A STABILIZED CONSTRUCTION ENTRANCE SHALL BE 1 TO 2 INCH STONE.
- 2) THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 50 FEET, EXCEPT FOR A SINGLE RESIDENTIAL LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY.
- 3) THE THICKNESS OF THE STONE FOR THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 6 INCHES.
- 4) THE WIDTH OF THE ENTRANCE SHALL NOT BE LESS THAN THE FULL WIDTH OF THE ENTRANCE WHERE INGRESS OR EGRESS OCCURS OR 10 FEET, WHICHEVER IS GREATER. GEOTEXTILE FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE. FILTER CLOTH IS NOT REQUIRED FOR A SINGLE FAMILY RESIDENCE LOT.
- 6) ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARD THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A BERM WITH 5:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE SUBSTITUTED FOR THE PIPE. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED PROMPTLY.
- 8) WHEELS SHALL BE CLEANED TO REMOVE MUD PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY, WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

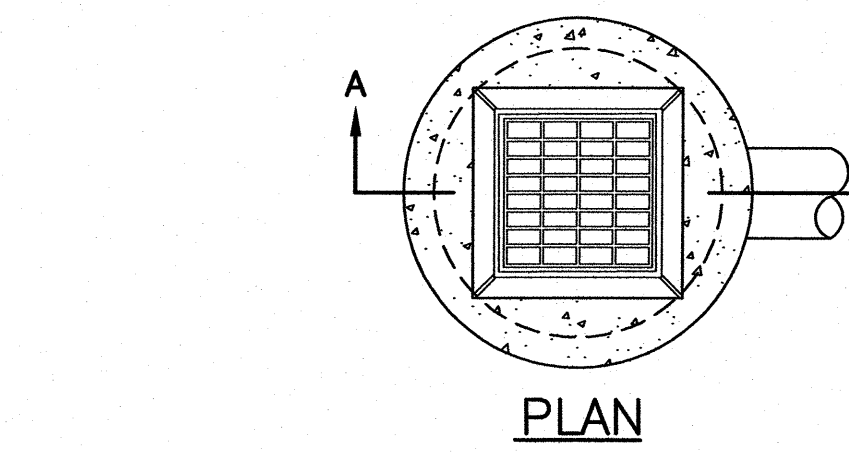
## B STABILIZED CONSTRUCTION ENTRANCE (IF NEEDED) NTS



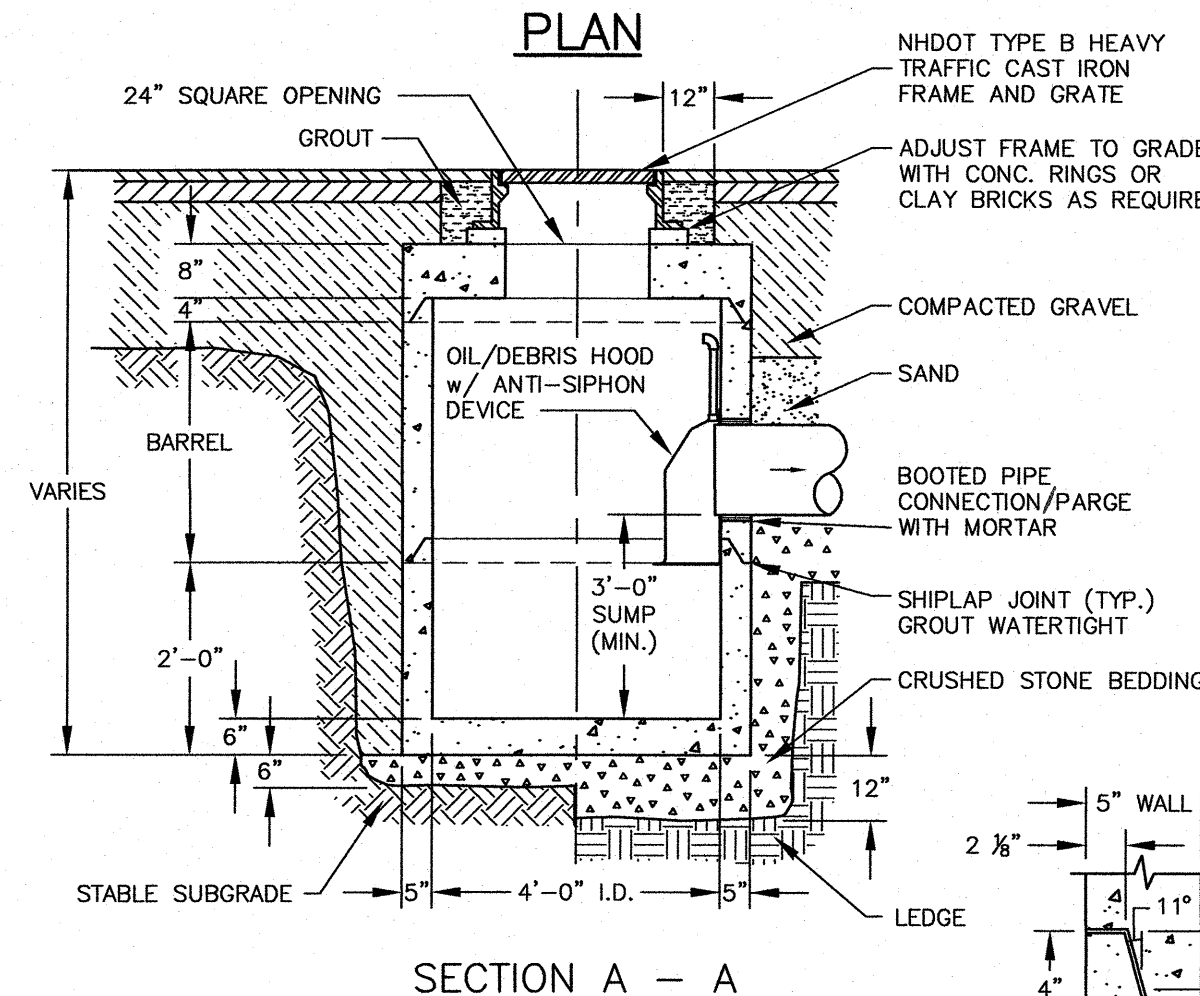
LENGTH (L) & WIDTH (W) AS REQUIRED TO FIT NHDOT TYPE GRATE & FRAME.



## C CATCH BASIN INLET BASKET NTS



INSTALL CATCH BASIN LINER AS DIRECTED BY CITY DEPARTMENT OF PUBLIC WORKS



## NOTES:

- 1) CONCRETE SHALL BE 4,000 P.S.I. AFTER 28 DAYS.
- 2) CIRCUMFERENTIAL REINFORCEMENT SHALL BE 0.12 SQ. IN. PER LINEAR FT. IN ALL SECTIONS & SHALL BE PLACED IN THE CENTER THIRD OF WALL.
- 3) THE TONGUE OR THE GROOVE OF THE JOINT SHALL CONTAIN ONE LINE OF CIRCUMFERENTIAL REINFORCEMENT EQUAL TO 0.12 SQ. IN. PER LINEAR FT.
- 4) EACH CASTING TO HAVE LIFTING HOLES CAST IN.
- 5) OUTLET HOOD SHALL BE A "SNOUT" BY BEST MANAGEMENT PRODUCTS, INC. OR APPROVED EQUAL. SIZING AND INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS.

## D CATCH BASIN w/ OIL-DEBRIS HOOD (IF NEEDED) NTS



**AMBIT ENGINEERING, INC.**  
Civil Engineers & Land Surveyors

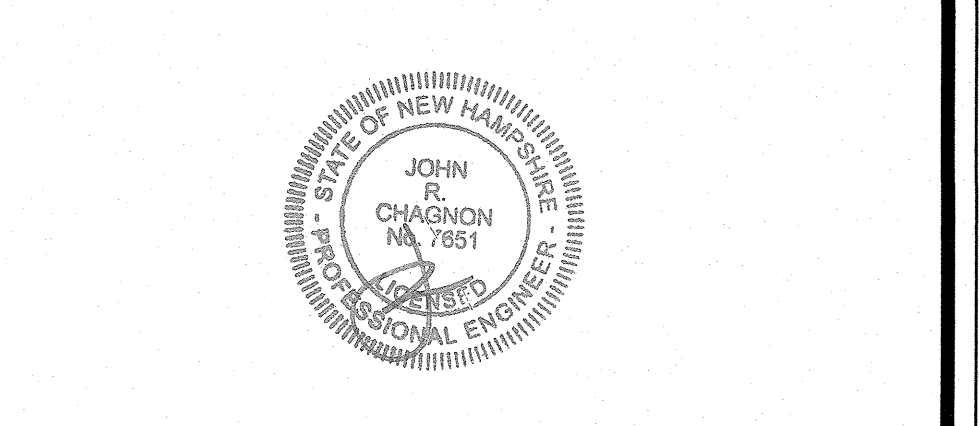
200 Griffin Road - Unit 3  
Portsmouth, N.H. 03801-7114  
Tel (603) 430-9282  
Fax (603) 436-2315

## 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 WITHIN 100 FEET OF UNDERGROUND UTILITIES. THE EXCAVATOR IS RESPONSIBLE TO MAINTAIN MARKS.
- 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
2	DETAIL D	12/23/19
1	ISSUED FOR APPROVAL	11/18/19
0	ISSUED FOR COMMENT	10/8/19

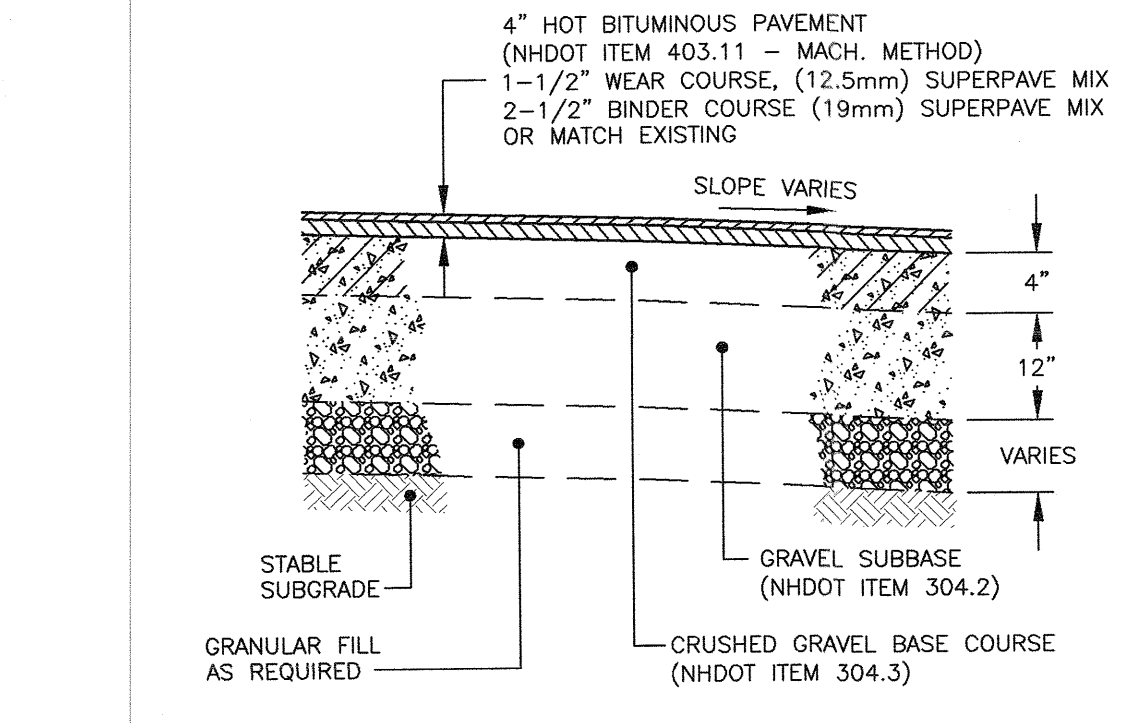


SCALE: AS SHOWN OCTOBER 2019

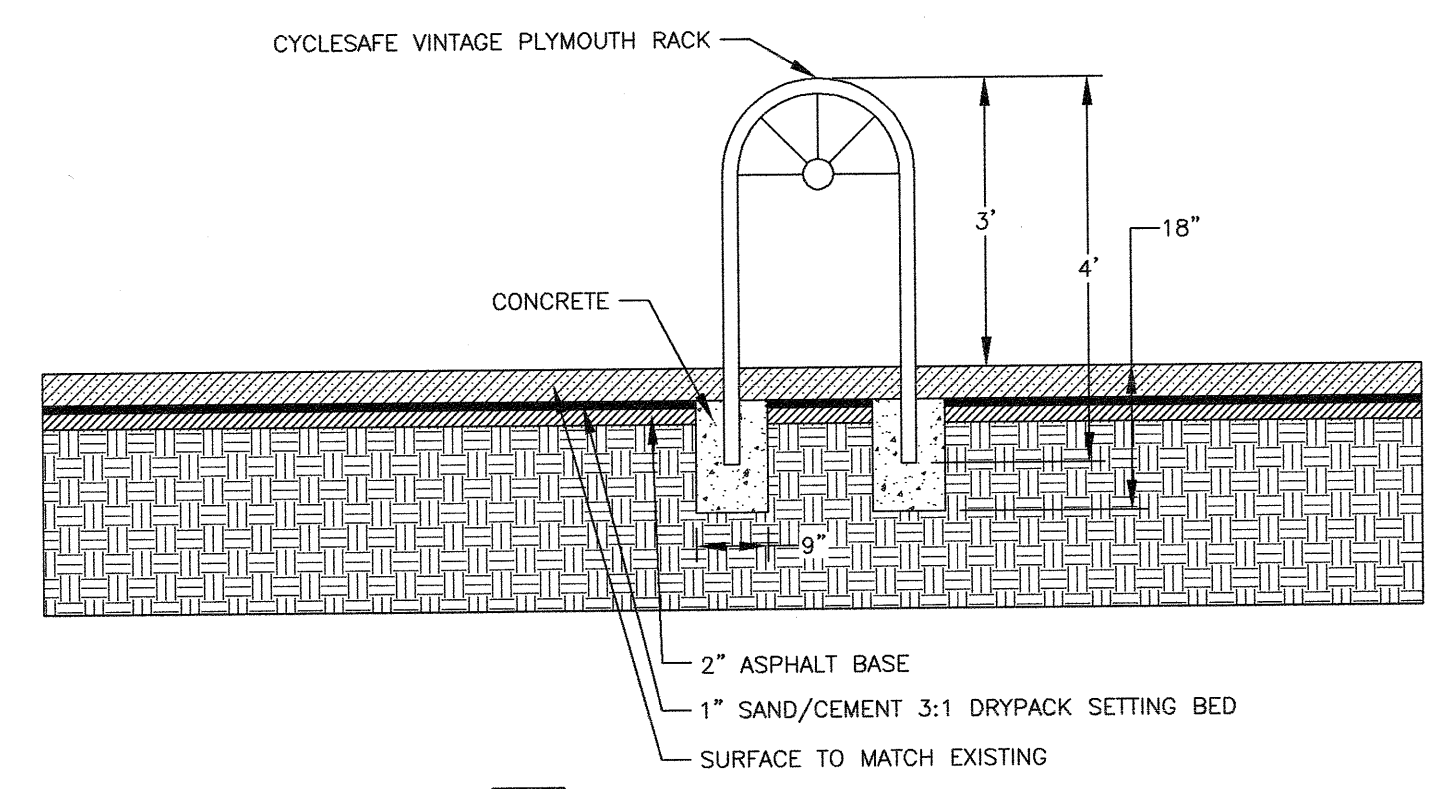
## DETAILS D1



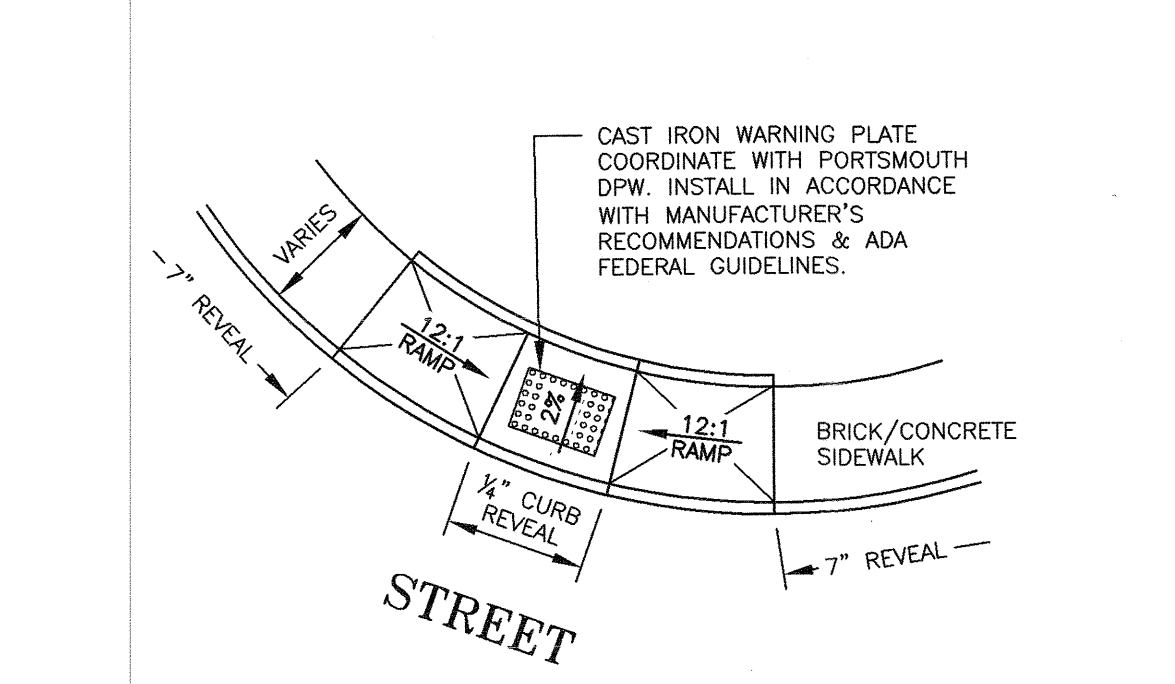
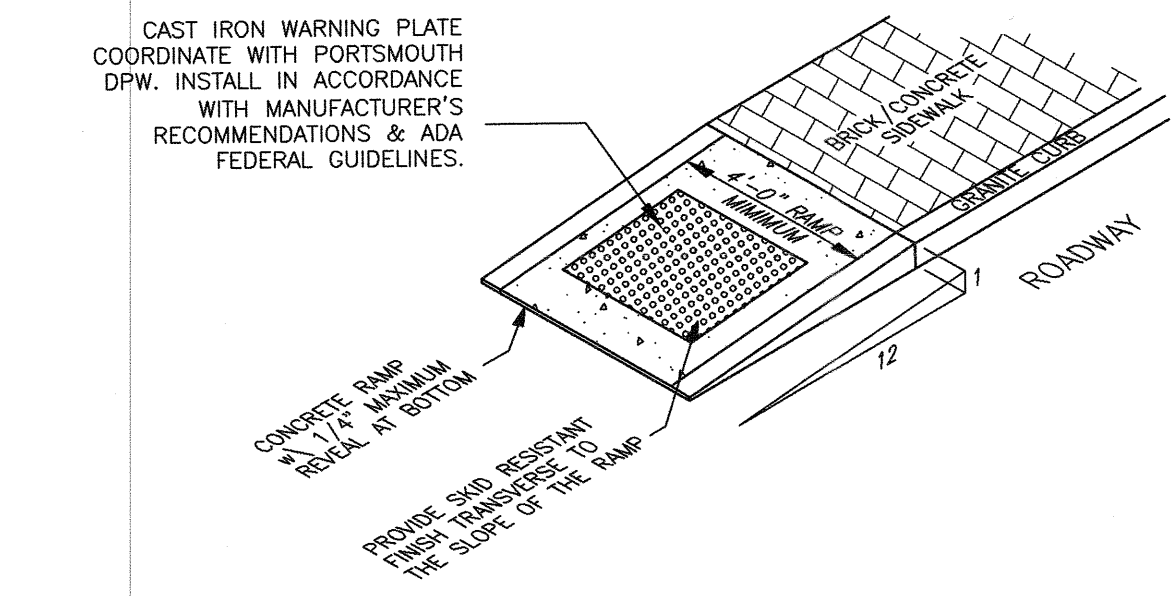
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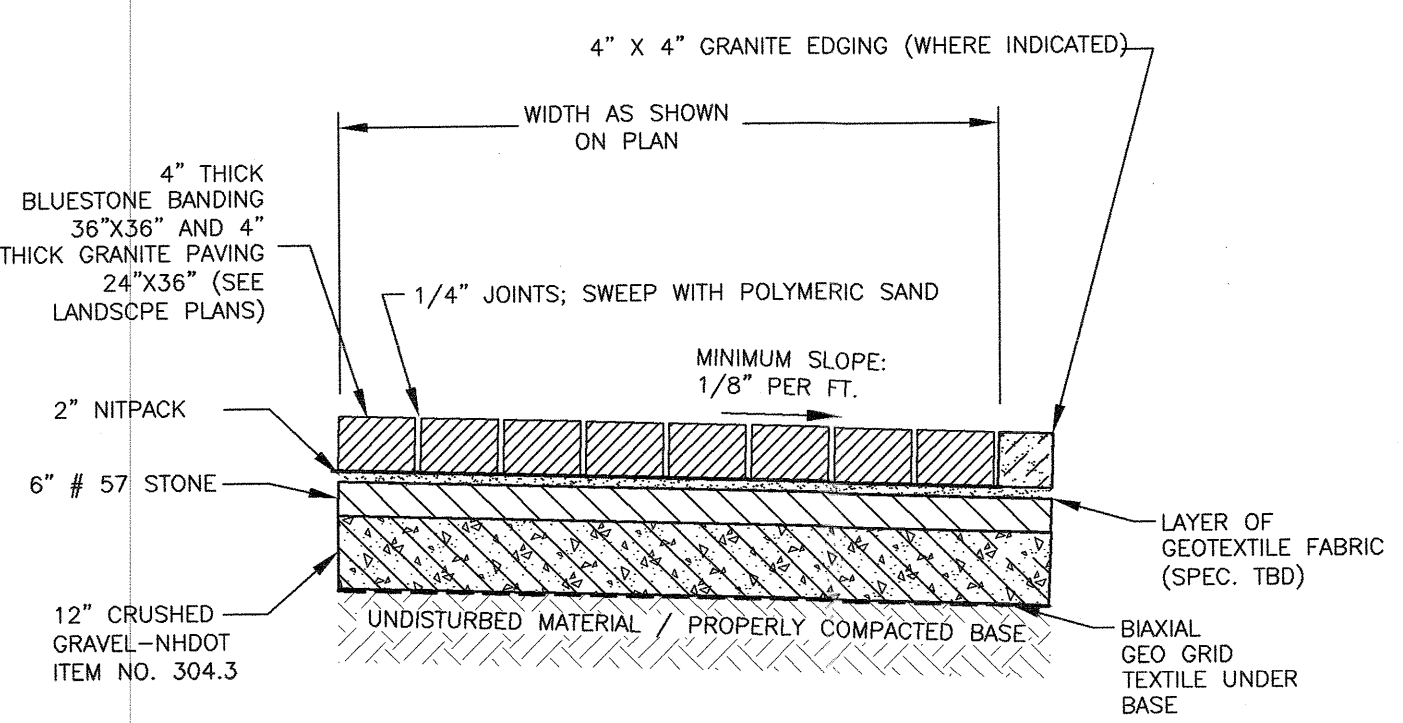
**E** TYPICAL PAVEMENT CROSS-SECTION  
OFF SITE REPAIR AS NEEDED NTS



**H** BIKE RACK  
NTS



**F** TYPICAL SIDEWALK TIP DOWNS  
NTS



**NOTES:**  
1) ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY ORDINANCES & SPECIFICATIONS.

**G** GRANITE / BLUESTONE DETAIL (DRIVEABLE)  
NTS

**BRICK PAVEMENT NOTES**

**SCOPE OF WORK:**

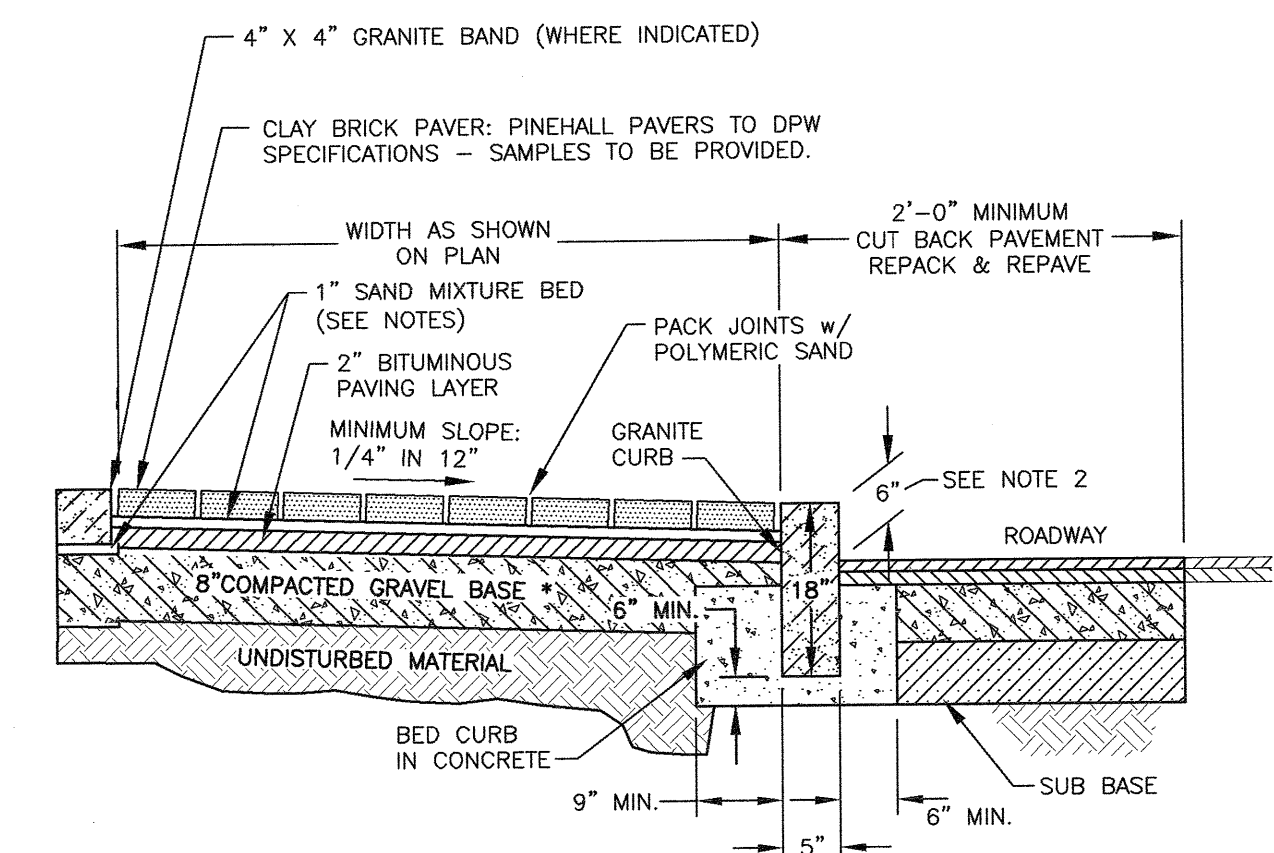
- 1) THE WORK SHALL CONSIST OF CONSTRUCTING/RECONSTRUCTING THE SUB-BASE AND CONSTRUCTING A NEW BRICK SIDEWALK AS DIRECTED IN THE FIELD BY THE ENGINEER AND COORDINATED WITH PORTSMOUTH DPW.
- 2) REVEAL SHALL BE COORDINATED WITH PORTSMOUTH DPW.

**METHODS OF CONSTRUCTION:**

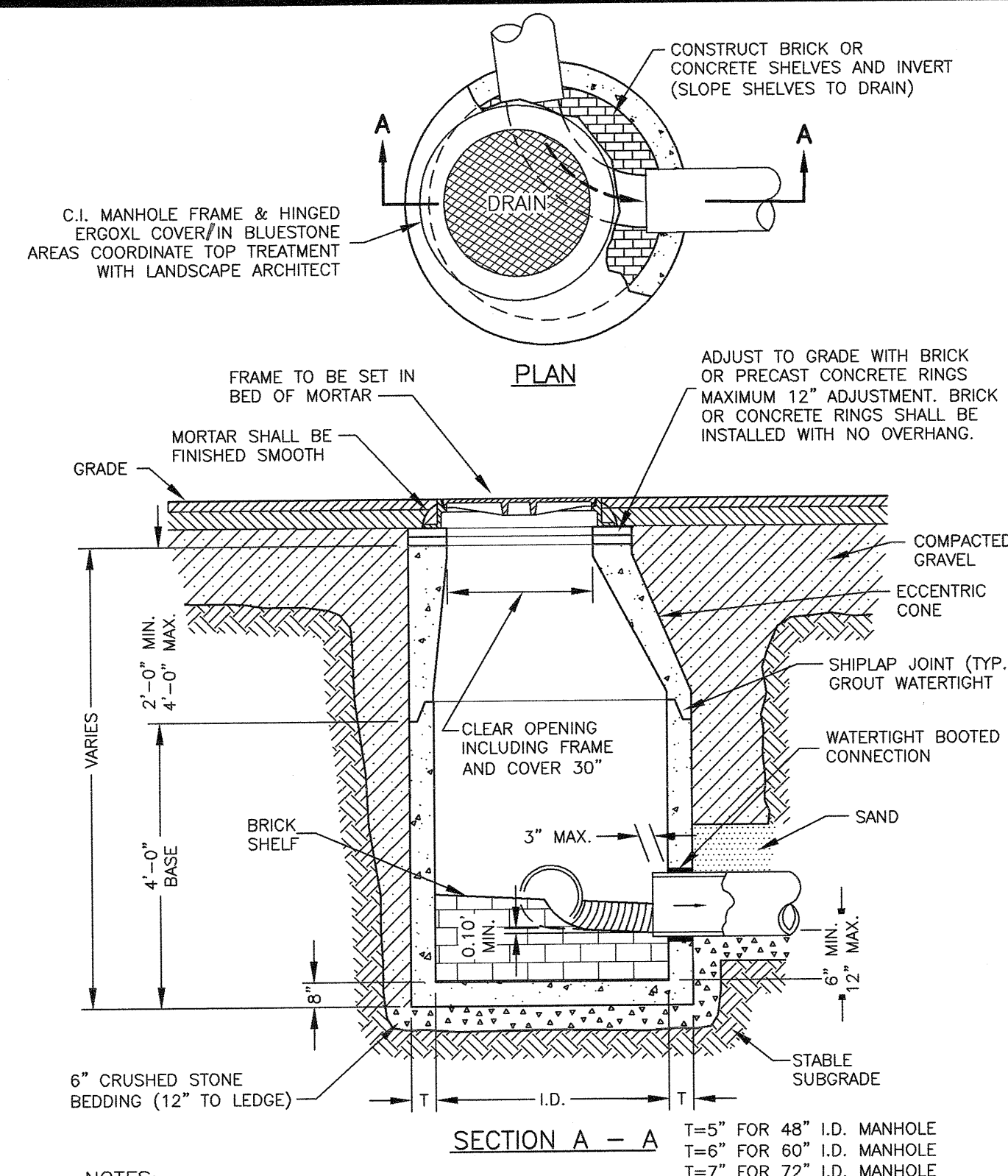
- A) ALL LABOR AND MATERIALS SHALL CONFORM TO THE STATE OF NEW HAMPSHIRE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 608, AND CITY OF PORTSMOUTH SPECIFICATIONS FOR NEW BRICK SIDEWALK, SECTION 6.
- B) EXCAVATION FOR SIDEWALKS SHALL BE AT A DEPTH OF 10 INCHES BELOW FINISH GRADE. IN AREAS NOT BUTTING CURBING OR BUILDINGS, THE EXCAVATION SHALL BE 6 INCHES WIDER THAN THE FINISHED SIDEWALK WIDTH. AT ALL DRIVE CROSSINGS, THE DEPTH OF EXCAVATION SHALL BE INCREASED ACCORDINGLY. THE CONTRACTOR SHALL PROVIDE NEAT AND SQUARE CUTTING OF EXISTING ASPHALT ROAD SURFACE AS NEEDED. ALL UNSUITABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF OFF-SITE AT THE CONTRACTOR'S OWN EXPENSE.
- C) THE BASE MATERIAL SHALL CONSIST OF A MIXTURE OF STONES OR ROCK FRAGMENTS AND PARTICLES WITH 100% PASSING THE 3 INCH SIEVE, 95% TO 100% PASSING THE 2 INCH SIEVE, 55% TO 85% PASSING THE 1 INCH SIEVE, AND 27% TO 52% PASSING THE NO. 4 SIEVE. AT LEAST 50% OF THE MATERIALS RETAINED ON THE 1 INCH SIEVE SHALL HAVE A FRACTURED FACE. THE BASE MATERIAL SHALL BE THOROUGHLY COMPACTED TO THE DEPTH SPECIFIED OR DIRECTED. IN THE WAY OF ALL DRIVE CROSSINGS THE BASE WILL BE INCREASED TO A COMPACTED DEPTH OF 12 INCHES. GRAVEL REQUIREMENTS FOR RECONSTRUCTION WILL BE AS DIRECTED, BASED ON SITE CONDITIONS. THE WORK INCLUDES BACKING UP ANY AND ALL CURB BEING INSTALLED BY OTHERS ON BOTH SIDES.
- D) THE CLAY BRICK PAVERS SHALL BE LAID IN A 1 INCH BED OF A SAND MIXTURE COMPRISED OF: 3 PARTS SAND MIXED WITH 1 PART PORTLAND CEMENT.
- E) THE CONTRACTOR SHALL LAY THE BRICKS SO THAT APPROXIMATELY 4.5 BRICKS SHALL COVER ONE SQUARE FOOT.
- F) THE SIDEWALK SHALL PITCH TOWARDS THE STREET AS SHOWN ON THE GRADING PLAN.
- G) IN AREAS WHERE THE FRONT OF THE BRICK SIDEWALK IS NOT ADJACENT TO GRANITE CURBING, THE CONTRACTOR SHALL INSTALL EDGING TO HOLD THE BRICKS IN PLACE. SUCH EDGING SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.
- H) THE CONTRACTOR SHALL SUBMIT A SAMPLE OF THE BRICKS FOR APPROVAL BY THE CITY BEFORE BRICKS ARE INSTALLED.

**CONSTRUCTION NOTE:**

EXISTING GRANITE CURB DISTURBED BY CONSTRUCTION SHALL BE REUSED AND ANY MISSING CURB SHALL BE REPLACED WITH NEW CURB MATCHING EXISTING CURB SIZE. NO CURB LESS THAN 3' IN LENGTH WILL BE ALLOWED.



**I** BRICK SIDEWALK w/ VERTICAL GRANITE CURB  
(STONE DUST BEDDING OVER BITUMINOUS PAVING) NTS

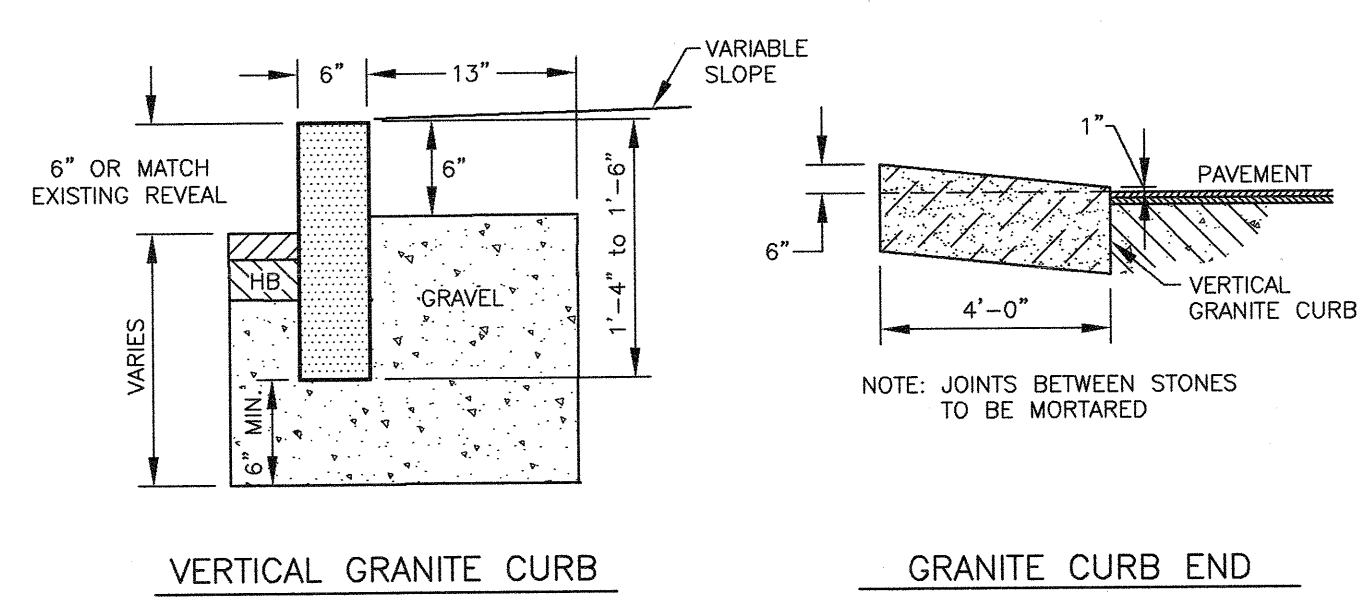


- NOTES:**
1. CONCRETE SHALL BE 4,000 P.S.I. AFTER 28 DAYS.
  2. CIRCUMFERENTIAL REINFORCEMENT SHALL BE 0.12 SQ. IN. PER LINEAR FOOT IN ALL SECTIONS AND SHALL BE PLACED IN THE CENTER THIRD OF THE WALL.
  3. THE TONGUE OR THE GROOVE OF THE JOINT SHALL CONTAIN ONE LINE OF CIRCUMFERENTIAL REINFORCEMENT EQUAL TO 0.12 SQ. IN. PER LINEAR FOOT.
  4. EACH CASTING TO HAVE LIFTING HOLES CAST IN.
  5. ALL MANHOLES SHALL BE 48" I.D. UNLESS SPECIFIED OTHERWISE ON THE PLANS.
  6. MANHOLE SHALL BE DESIGNED AND CONSTRUCTED TO WITHSTAND H=20 LOADING.
  7. FARGE SPACES BETWEEN PIPE AND MANHOLE WITH MOTAR.

**J** DRAIN MANHOLE WITH BOOT DETAIL  
NTS

Radius	Max. length
22' - 28'	3'
29' - 35'	5'
36' - 42'	6'
43' - 49'	7'
50' - 56'	8'
57' - 60'	9'
over 60'	10'

MIN. LENGTH OF CURB STONES 3FT.  
MAX. LENGTH OF CURB STONES 10FT.  
LAI D ON CURVES SEE CHART  
NOTE: ADJOINING STONES SHALL HAVE THE SAME OR APPROXIMATE LENGTH.



**K** GRANITE CURBING DETAILS  
NTS

**BRICK MARKET**  
60 PENHALLOW STREET  
PORTSMOUTH, N.H.

NO.	DESCRIPTION	DATE
2	DETAILS E, F, I & K	12/23/19
1	ISSUED FOR APPROVAL	11/18/19
0	ISSUED FOR COMMENT	10/8/19



SCALE: AS SHOWN OCTOBER 2019

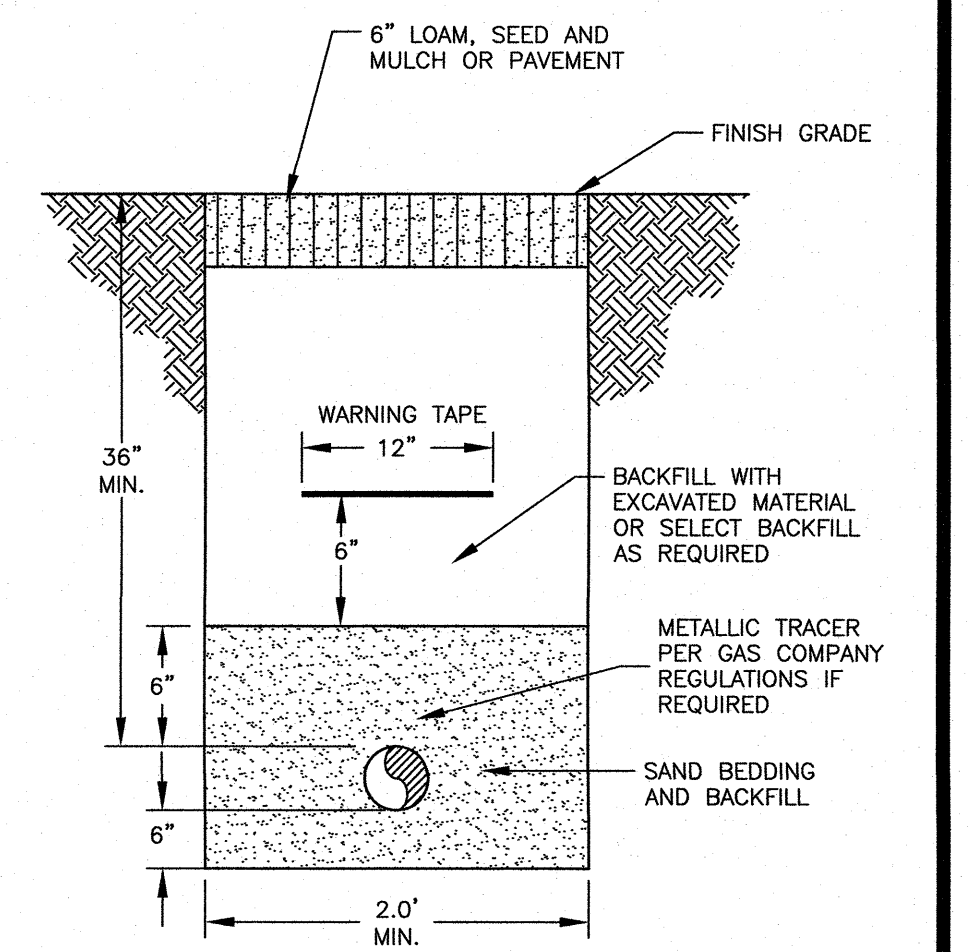
**DETAILS** **D2**



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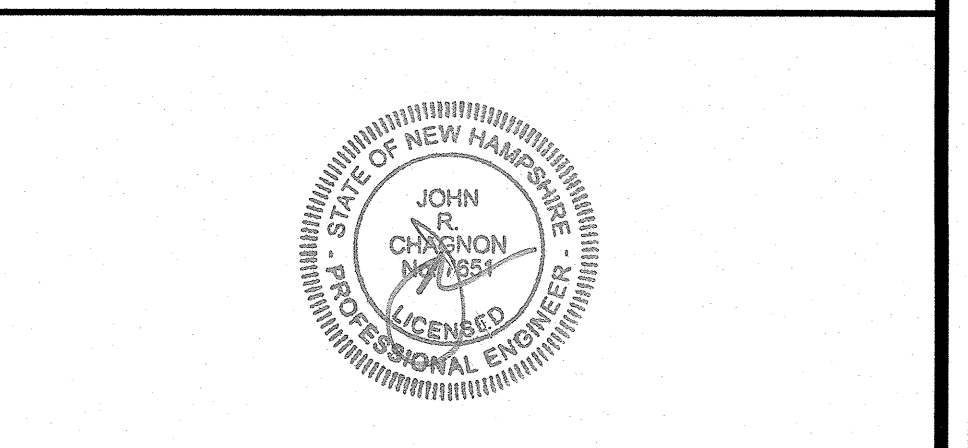
3) CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE "NEW HAMPSHIRE STORMWATER MANUAL, VOLUME 3, EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION. (NHDES DECEMBER 2008).



**GAS SERVICE TRENCH**  
NTS

**BRICK MARKET**  
**60 PENHALLOW STREET**  
**PORTSMOUTH, N.H.**

NO.	DESCRIPTION	DATE
2	DETAILS L, N, O, & P	12/23/19
1	ISSUED FOR APPROVAL	11/18/19
0	ISSUED FOR COMMENT	10/8/19



SCALE: AS SHOWN  
OCTOBER 2019

**DETAILS**  
**D3**

**SEWER UTILITY GENERAL NOTES:**

- MINIMUM PIPE SIZE FOR COMMERCIAL SERVICE SHALL BE SIX INCHES.
- PIPE AND JOINT MATERIALS:
  - PLASTIC SEWER PIPE
    - PIPE AND FITTINGS SHALL CONFORM TO THE FOLLOWING ASTM STANDARDS:
 

ASTM STANDARDS	GENERIC PIPE MATERIAL	SIZES APPROVED
D3034	*PVC (SOLID WALL)	8" THROUGH 15" (SDR 35)
F679	PVC (SOLID WALL)	18" THROUGH 27" (T-1 & T-2)
F789	PVC (SOLID WALL)	4" THROUGH 18" (T-1 To T-3)
F794	PVC (RIBBED WALL)	8" THROUGH 36"
AWWA C900	*PVC (SOLID WALL)	8" THROUGH 18"

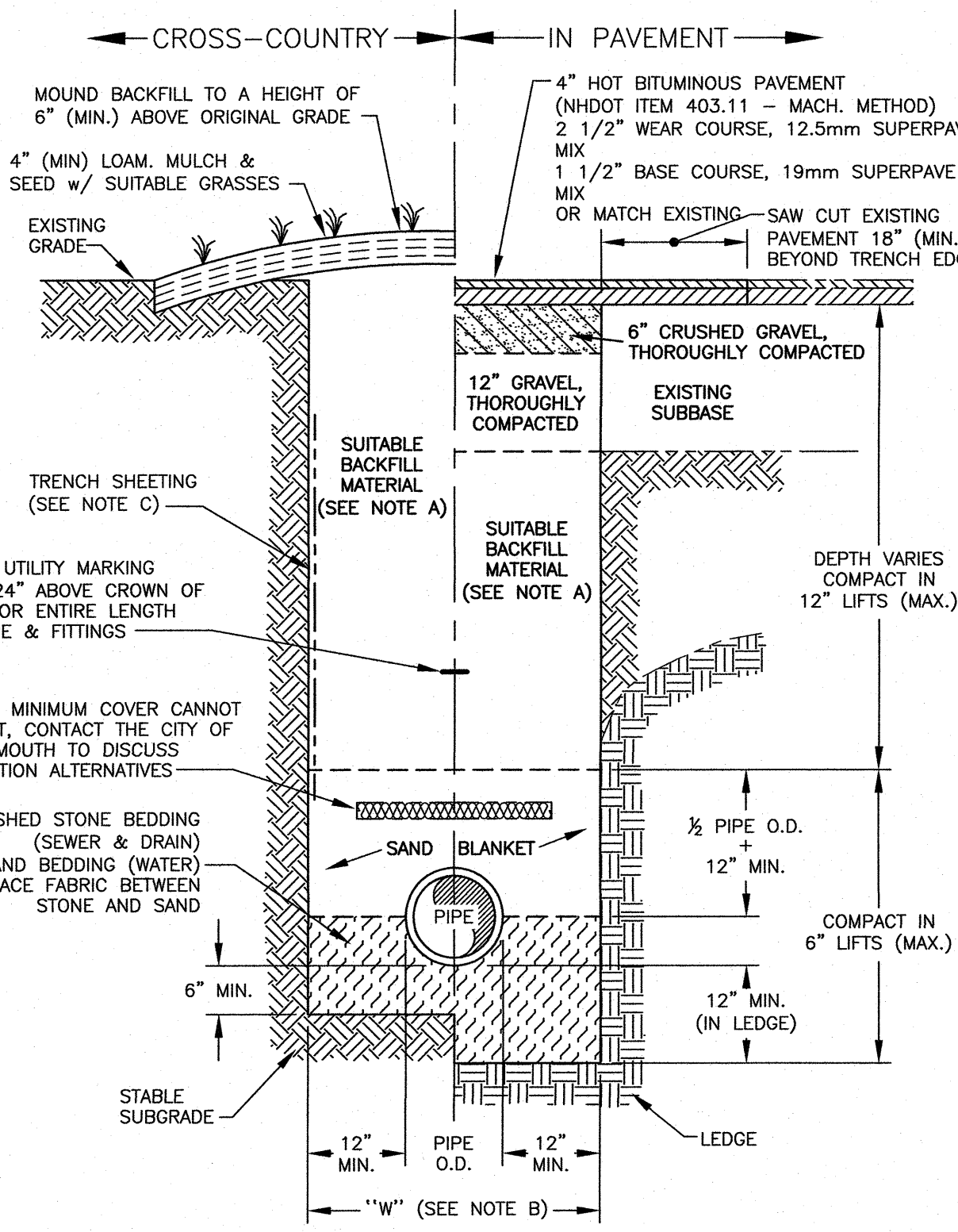
      - POLYVINYL CHLORIDE
    - DUCTILE IRON PIPE, FITTINGS AND JOINTS.
      - DUCTILE IRON PIPE AND FITTINGS FOR SEWERS SHALL CONFORM TO THE FOLLOWING STANDARDS OF THE UNITED STATES OF AMERICA STANDARDS INSTITUTE:
        - THICKNESS DESIGN OF DUCTILE IRON PIPE AND WITH ASTM A-536 DUCTILE IRON CASTINGS.
        - DUCTILE IRON PIPE, CENTRIFUGALLY CAST IN METAL MOULDS OR SAND LINED MOULDS FOR SEWER APPLICATIONS.
      - JOINTS SHALL BE OF THE MECHANICAL OR PUSH ON TYPE. JOINTS AND GASKETS SHALL CONFORM TO:
        - RUBBER GASKET JOINTS FOR CAST IRON PRESSURE PIPE & FITTINGS.
    - DAMAGED PIPE SHALL BE REJECTED AND REMOVED FROM THE JOB SITE.
    - JOINTS SHALL BE DEPENDENT UPON A NEOPRENE OR ELASTOMERIC GASKET FOR WATER TIGHTNESS. ALL JOINTS SHALL BE PROPERLY MATCHED WITH THE PIPE MATERIALS USED. WHERE DIFFERING MATERIALS ARE TO BE CONNECTED, AS AT THE STREET SEWER WYE OR AT THE FOUNDATION WALL, APPROPRIATE MANUFACTURED ADAPTERS SHALL BE USED.
    - TEES AND WYES: WHERE A TEE OR WYE IS NOT AVAILABLE IN THE EXISTING STREET SEWER, AN APPROPRIATE CONNECTION SHALL BE MADE DEPENDING ON THE PIPE ENCOUNTERED, FOR PVC PIPE CUT IN A SANITARY TEE, FOR CLAY PIPE, USE INSERT-A-TEE OR CUT IN A SANITARY TEE. ALL WORK TO BE APPROVED BY GOVERNING BODY.
    - HOUSE SEWER INSTALLATION: THE PIPE SHALL BE HANDLED, PLACED AND JOINED IN ACCORDANCE WITH INSTALLATION GUIDES OF THE APPROPRIATE MANUFACTURER. IT SHALL BE CAREFULLY BEDDED ON A 4 INCH LAYER OF CRUSHED STONE AND/OR GRAVEL AS SPECIFIED IN NOTE 10. BEDDING AND REFILL FOR DEPTH OF 12 INCHES ABOVE THE TOP OF THE PIPE SHALL BE CAREFULLY AND THOROUGHLY TAMPED BY HAND OR WITH APPROPRIATE MECHANICAL DEVICES.
    - THE PIPE SHALL BE LAID AT A CONTINUOUS AND CONSTANT GRADE FROM THE STREET SEWER CONNECTION TO THE FOUNDATION AT A GRADE OF NOT LESS THAN 1/4 INCH PER FOOT. PIPE JOINTS MUST BE MADE UNDER DRY CONDITIONS. IF WATER IS PRESENT, ALL NECESSARY STEPS SHALL BE TAKEN TO DEWATER THE TRENCH.
    - TESTING: WHEN REQUIRED BY THE GOVERNING AUTHORITY, TESTING SHALL CONFORM TO ENV-WQ 704.07.
    - ILLEGAL CONNECTIONS: NOTHING BUT SANITARY WASTE FLOW FROM DWELLING TOILETS, SINKS, LAUNDRY ETC. SHALL BE PERMITTED. ROOF LEADS, FOOTING DRAINS, SUMP PUMPS OR OTHER SIMILAR CONNECTIONS CARRYING RAIN WATER, DRAINAGE OR GROUND WATER SHALL NOT BE PERMITTED.
    - WATER SERVICE SHALL NOT BE LAID IN SAME TRENCH AS SEWER SERVICE, UNLESS IT IS ON A SHELF 12" HIGHER, AND 18" APART.
    - BEDDING: SCREENED GRAVEL AND/OR CRUSHED STONE, FREE FROM CLAY, LOAM, ORGANIC MATTER AND MEETING ASTM C33 STONE SIZE NO. 67.
 

100% PASSING	1 INCH SCREEN
90%-100% PASSING	3/4 INCH SCREEN
20%-55% PASSING	3/8 INCH SCREEN
0%-10% PASSING	#4 SIEVE
0%-5% PASSING	#8 SIEVE

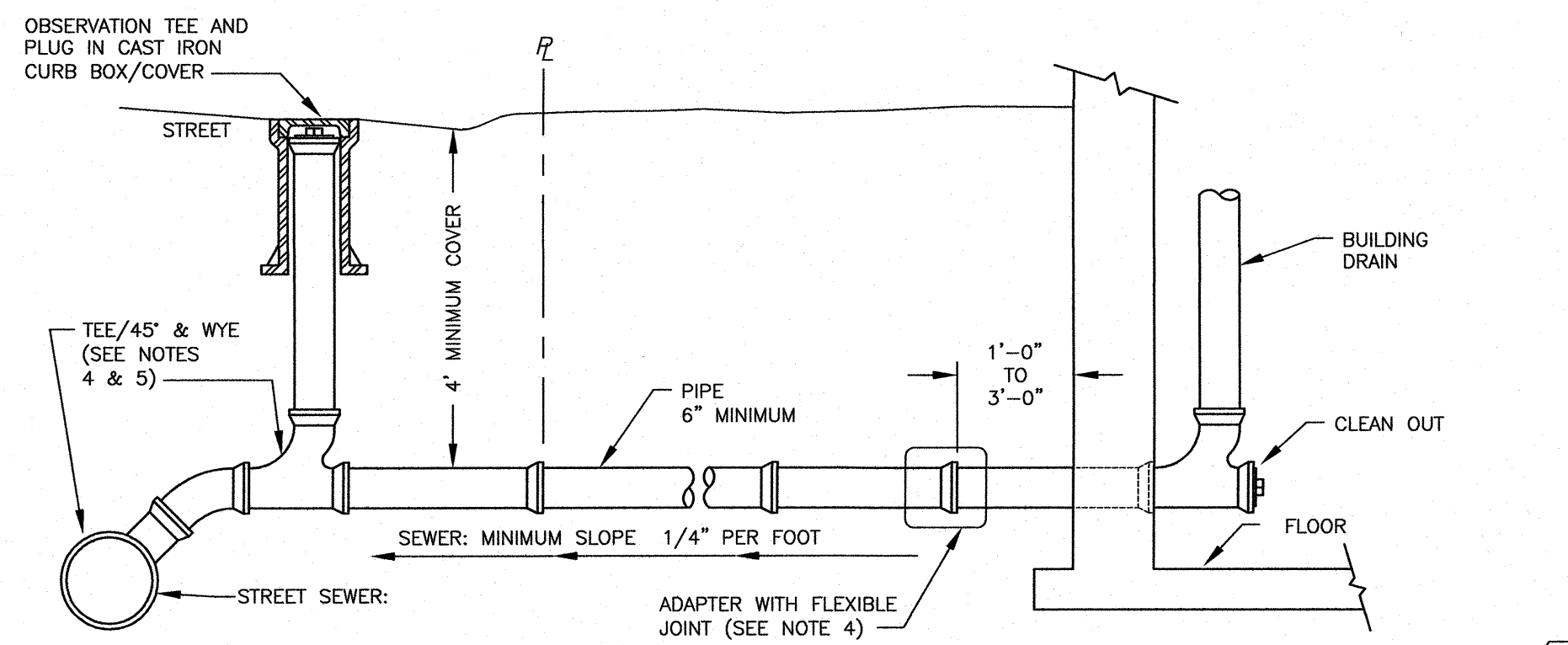
 WHERE ORDERED BY THE ENGINEER TO STABILIZE THE TRENCH BASE, GRADED SCREENED GRAVEL OR CRUSHED STONE 1/2 INCH TO 1-1/2 INCH SHALL BE USED.
    - LOCATION: THE LOCATION OF THE TEE OR WYE SHALL BE RECORDED AND FILED IN THE MUNICIPAL RECORDS. IN ADDITION, A FERROUS METAL ROD OR PIPE SHALL BE PLACED OVER THE TEE OR WYE AS DESCRIBED IN THE TYPICAL "CHIMNEY" DETAIL, TO AID IN LOCATING THE BURIED PIPE WITH A DIP NEEDLE OR PIPE FINDER.
    - CAST-IN-PLACE CONCRETE: SHALL CONFORM TO THE REQUIREMENTS FOR CLASS A (3000 PSI) CONCRETE OF THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AS FOLLOWS:
 

CEMENT:	6.0 BAGS PER CUBIC YARD
WATER:	5.75 GALLONS PER BAG OF CEMENT
MAXIMUM AGGREGATE SIZE:	3/4 INCH
    - CHIMNEYS: IF VERTICAL DROP INTO SEWER IS GREATER THAN 4 FEET, A CHIMNEY SHALL BE CONSTRUCTED FOR THE HOUSE CONNECTION. CHIMNEY INSTALLATION AS RECOMMENDED BY THE PIPE MANUFACTURER MAY BE USED IF APPROVED BY THE ENGINEER.
    - BACKFILL UP TO SUBBASE GRAVEL SHALL BE WITH EXCAVATED SOIL FROM TRENCHING OPERATIONS. COMPACT IN 8" LIFTS WITH VIBRATORY PLATE COMPACTORS TO 90% OF MODIFIED PROCTOR DENSITY. IF FINE-GRAINED, COMPACT WITH POGO STICKS OR SHEEPSFOOT ROLLERS. PLACE NO LARGE ROCKS WITHIN 24" OF PIPE. TRENCHES THAT ARE NOT ADEQUATELY COMPACTED SHALL BE RE-EXCAVATED AND BACKFILLED UNDER THE SUPERVISION OF THE DESIGN ENGINEER OR GOVERNING BODY. UNSUITABLE BACKFILL MATERIAL INCLUDES CHUNKS OF PAVEMENT, TOPSOIL, ROCKS OVER 6" IN SIZE, MUCK, PEAT OR PIECES OF PAVEMENT.
    - THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB-SITE SAFETY AND COMPLIANCE WITH GOVERNING REGULATIONS.
    - ORDERED EXCAVATION OF UNSUITABLE MATERIAL BELOW GRADE. REFILL WITH BEDDING MATERIAL FOR TRENCH WIDTH SEE TRENCH DETAIL.
    - SAND BLANKET: CLEAN SAND, FREE FROM ORGANIC MATTER, SO GRADED THAT 90% - 100% PASSES A 1/2 INCH SIEVE AND NOT MORE THAN 15% WILL PASS A #200 SIEVE. BLANKET MAY BE OMITTED FOR DUCTILE IRON AND REINFORCED CONCRETE PIPE PROVIDED THAT NO STONE LARGER THAN 2 INCHES IS IN CONTACT WITH THE PIPE.
    - BASE COURSE GRAVEL, IF ORDERED BY THE ENGINEER, SHALL MEET THE REQUIREMENTS OF DIVISION 300 OF THE LATEST EDITION OF THE: "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OF THE STATE OF NEW HAMPSHIRE, DEPARTMENT OF TRANSPORTATION".
    - FOR CROSS COUNTRY CONSTRUCTION, BACKFILL OR FILL SHALL BE MOUND TO A HEIGHT OF 6 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
    - IF FULL ENCASUREMENT IS UTILIZED, DEPTH OF CONCRETE BELOW PIPE SHALL BE 1/4 I.D. (4" MIN.) BLOCK SUPPORT SHALL BE SOLID CONCRETE BLOCKS.
    - 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).
    - THE CONTRACTOR SHALL NOTIFY DIG SAFE AT 1-888-DIG-SAFE (1-888-344-7233) AT LEAST 72 HOURS PRIOR TO COMMENCING ANY EXCAVATION.
    - THE PURPOSE OF THIS PLAN IS TO SHOW STANDARDS FOR SEWER CONSTRUCTION.
    - IF FULL ENCASUREMENT IS UTILIZED, DEPTH OF CONCRETE BELOW PIPE SHALL BE 1/4 I.D. (4" MIN.) BLOCK SUPPORT SHALL BE SOLID CONCRETE BLOCKS.
    - 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).
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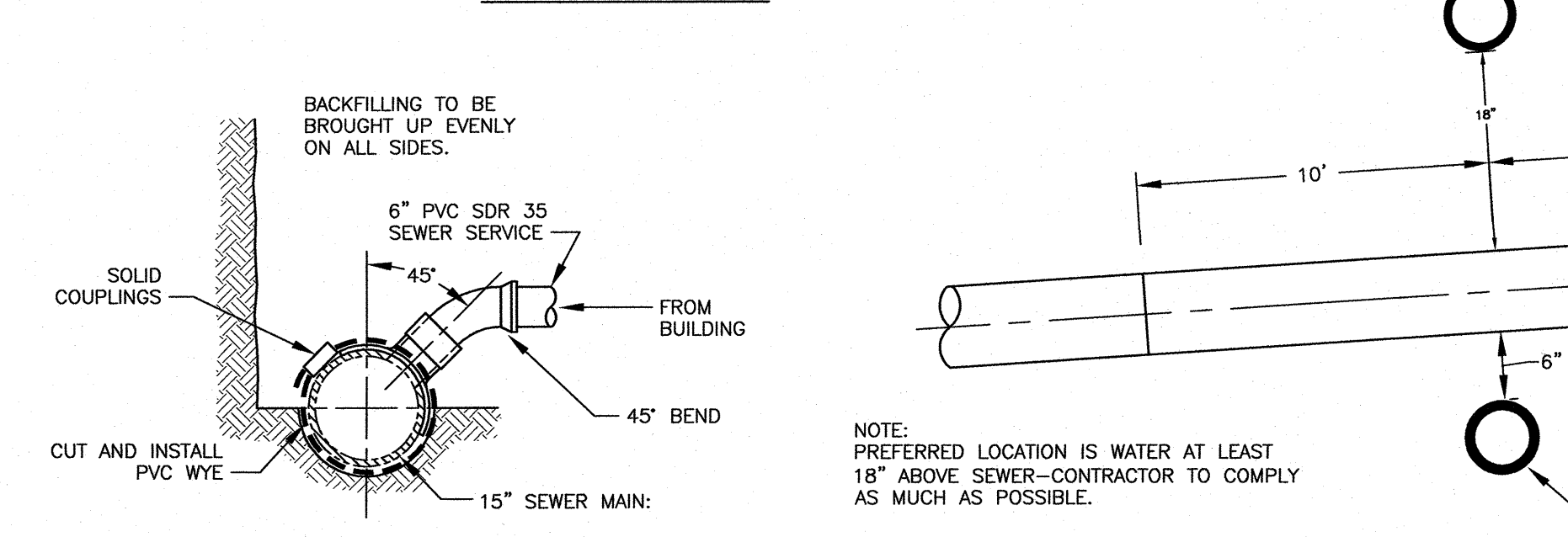
**TRENCH NOTES:**  
A) TRENCH BACKFILL: - IN PAVED AREAS, SUITABLE MATERIAL FOR TRENCH BACKFILL SHALL BE THE NATURAL MATERIAL EXCAVATED DURING CONSTRUCTION, BUT SHALL EXCLUDE DEBRIS, PIECES OF PAVEMENT, ORGANIC MATTER, TOP SOIL, ALL WET OR SOFT MUCK, PEAT OR CLAY, ALL EXCAVATED LEDGE MATERIAL, AND ALL ROCKS OVER SIX INCHES IN LARGEST DIMENSION, OR ANY MATERIALS DEEMED TO BE UNACCEPTABLE BY THE ENGINEER.  
- IN CROSS-COUNTRY CONSTRUCTION, SUITABLE MATERIAL SHALL BE AS DESCRIBED ABOVE, EXCEPT THAT THE ENGINEER MAY PERMIT THE USE OF TOP SOIL, LOAM, MUCK OR PEAT, IF HE IS SATISFIED THAT THE COMPLETED CONSTRUCTION WILL BE ENTIRELY STABLE.  
B) "W" = MAXIMUM ALLOWABLE TRENCH WIDTH TO A PLANE 12 INCHES ABOVE THE PIPE. FOR PIPES 15 INCHES NOMINAL DIAMETER OR LESS, W SHALL BE NO MORE THAN 36 INCHES. FOR PIPES GREATER THAN 15 INCHES NOMINAL DIAMETER, W SHALL BE 24 INCHES PLUS PIPE O.D..  
C) TRENCH SHEETING: IF REQUIRED, WHERE SHEETING IS PLACED ALONGSIDE THE PIPE AND EXTENDS BELOW MID-DIAMETER, IT SHALL BE CUT OFF AND LEFT IN PLACE TO AN ELEVATION NOT LESS THAN 1 FOOT ABOVE THE TOP OF THE PIPE. WHERE SHEETING IS ORDERED BY THE ENGINEER TO BE LEFT IN PLACE, IT SHALL BE CUT OFF AT LEAST 3 FEET BELOW FINISHED GRADE, BUT NOT LESS THAN 1 FOOT ABOVE THE TOP OF THE PIPE.  
D) MINIMUM PIPE COVER FOR UTILITY MAINS (UNLESS GOVERNED BY OTHER CODES):  
6' MINIMUM FOR SEWER (IN PAVEMENT)  
4' MINIMUM FOR SEWER (CROSS COUNTRY)  
3' MINIMUM FOR STORMWATER DRAINS  
5' MINIMUM FOR WATER MAINS  
E) ALL PAVEMENT CUTS SHALL BE REPAIRED BY THE INFRARED HEAT METHOD.



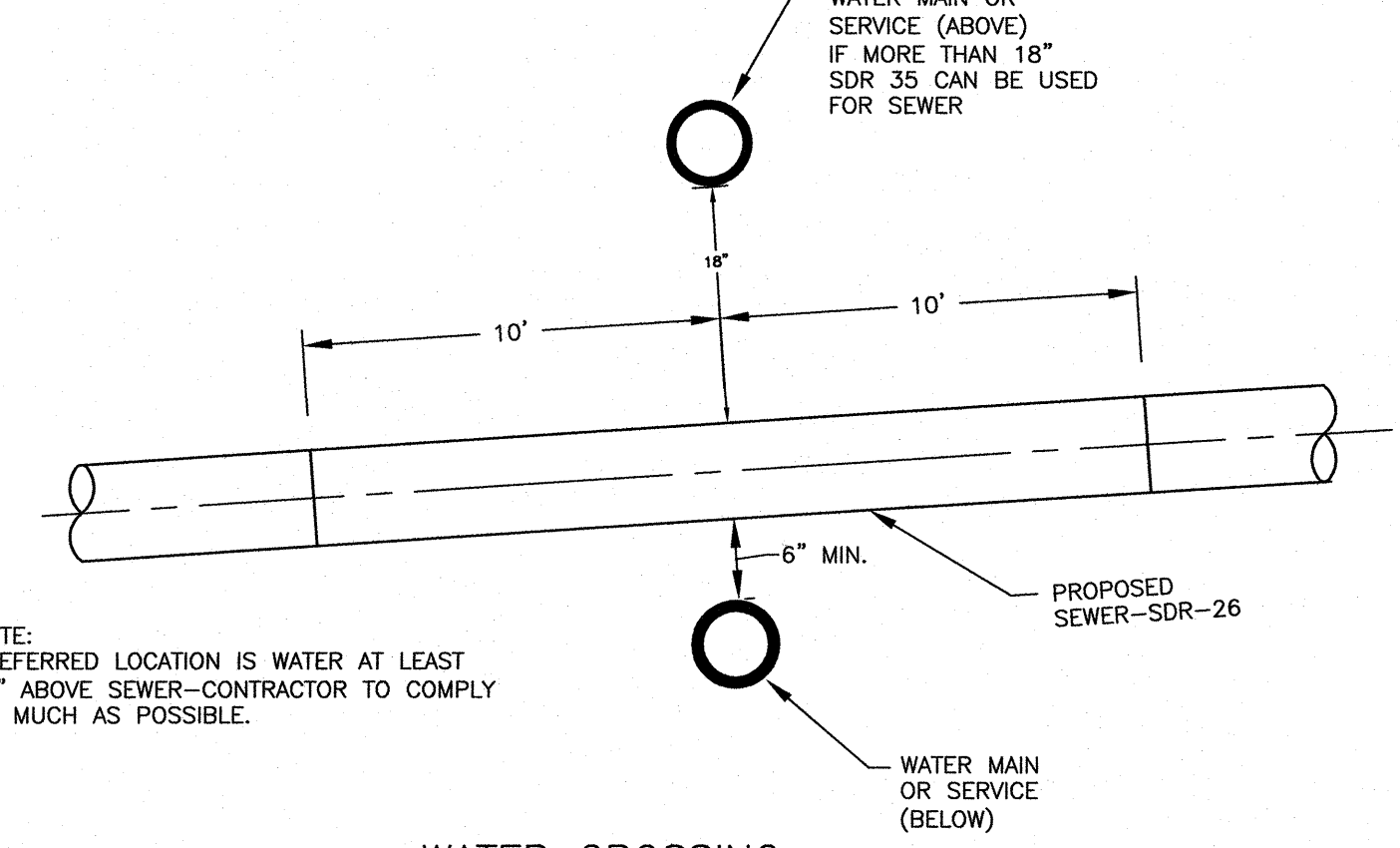
**TYPICAL PIPE TRENCH**  
NTS



**SEWER SERVICE**

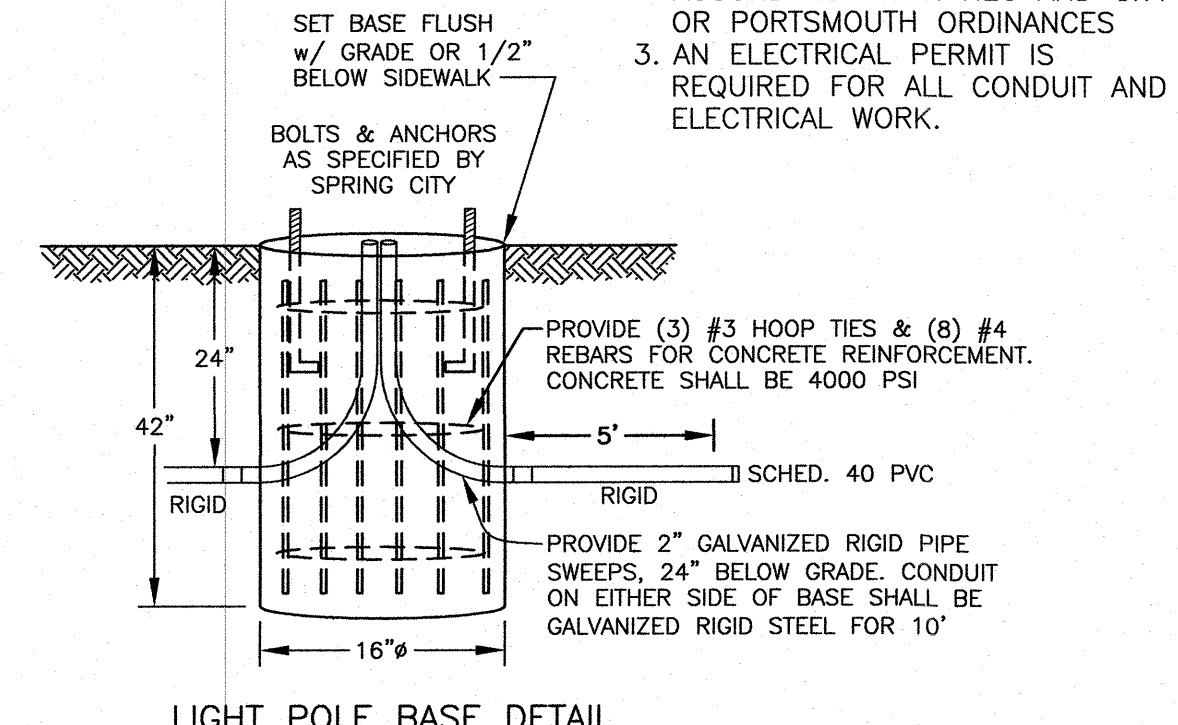


**SEWER SERVICE CONNECTION**

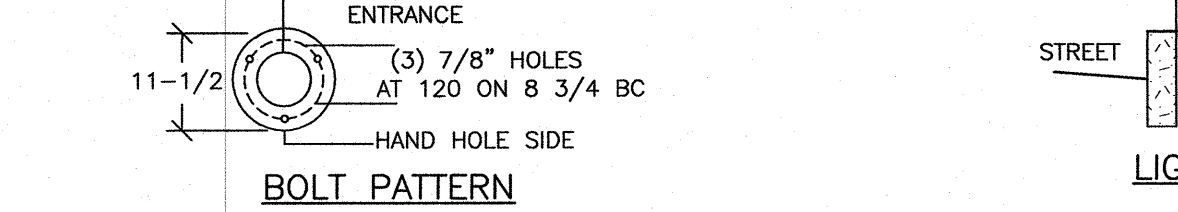


**WATER CROSSING**

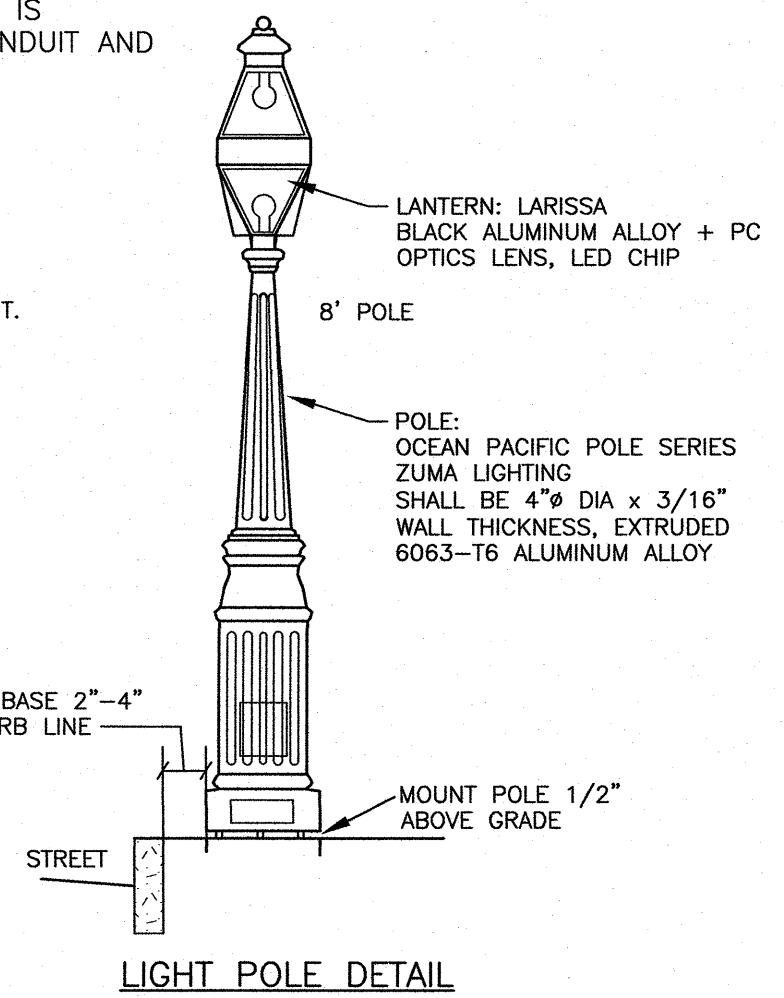
**NOTES:**  
1. ELECTRICAL INSTALLATION SHALL BE BY A LICENSED ELECTRICIAN.  
2. LIGHTS SHALL BE WIRED IN ACCORDANCE WITH NEC AND CITY OR PORTSMOUTH ORDINANCES  
3. AN ELECTRICAL PERMIT IS REQUIRED FOR ALL CONDUIT AND ELECTRICAL WORK.



**LIGHT POLE BASE DETAIL**

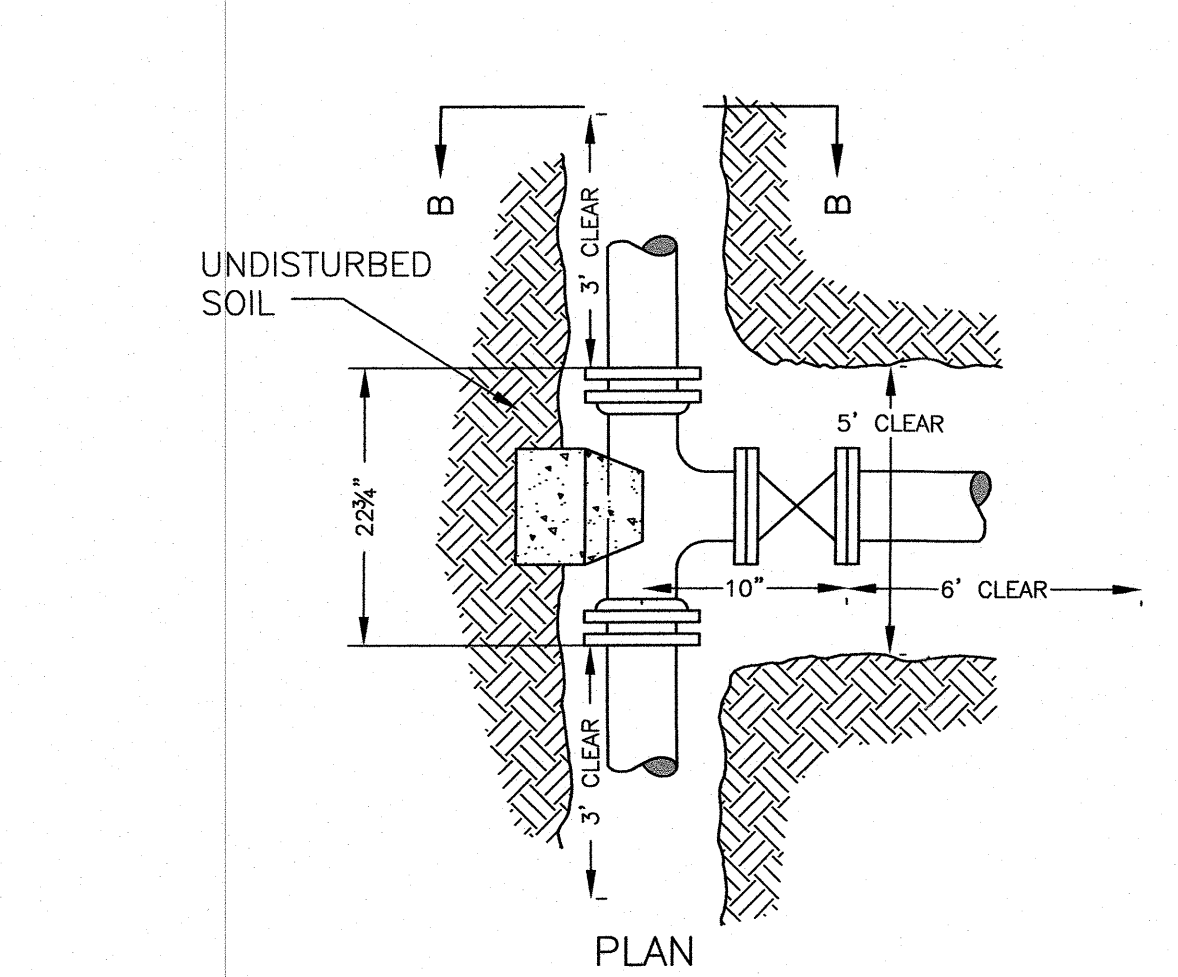


**BOLT PATTERN**

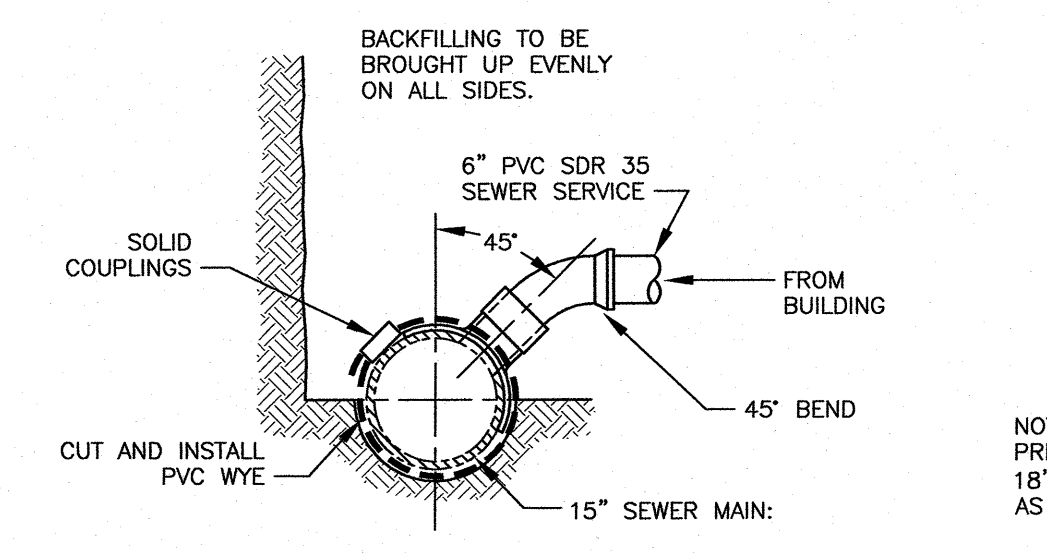


**LIGHT POLE DETAIL**

**CITY STREET LIGHT**  
NTS



**TAPPING SLEEVE AND GATE**  
INSTALL PER PORTSMOUTH REQUIREMENTS NTS



**SEWER SERVICE CONNECTION**  
INSTALL PER PORTSMOUTH REQUIREMENTS NTS

**M C4**  
**TAPPING SLEEVE AND GATE**  
INSTALL PER PORTSMOUTH REQUIREMENTS NTS

**P C4**  
**SEWER SERVICE DETAILS**  
INSTALL PER PORTSMOUTH REQUIREMENTS NTS



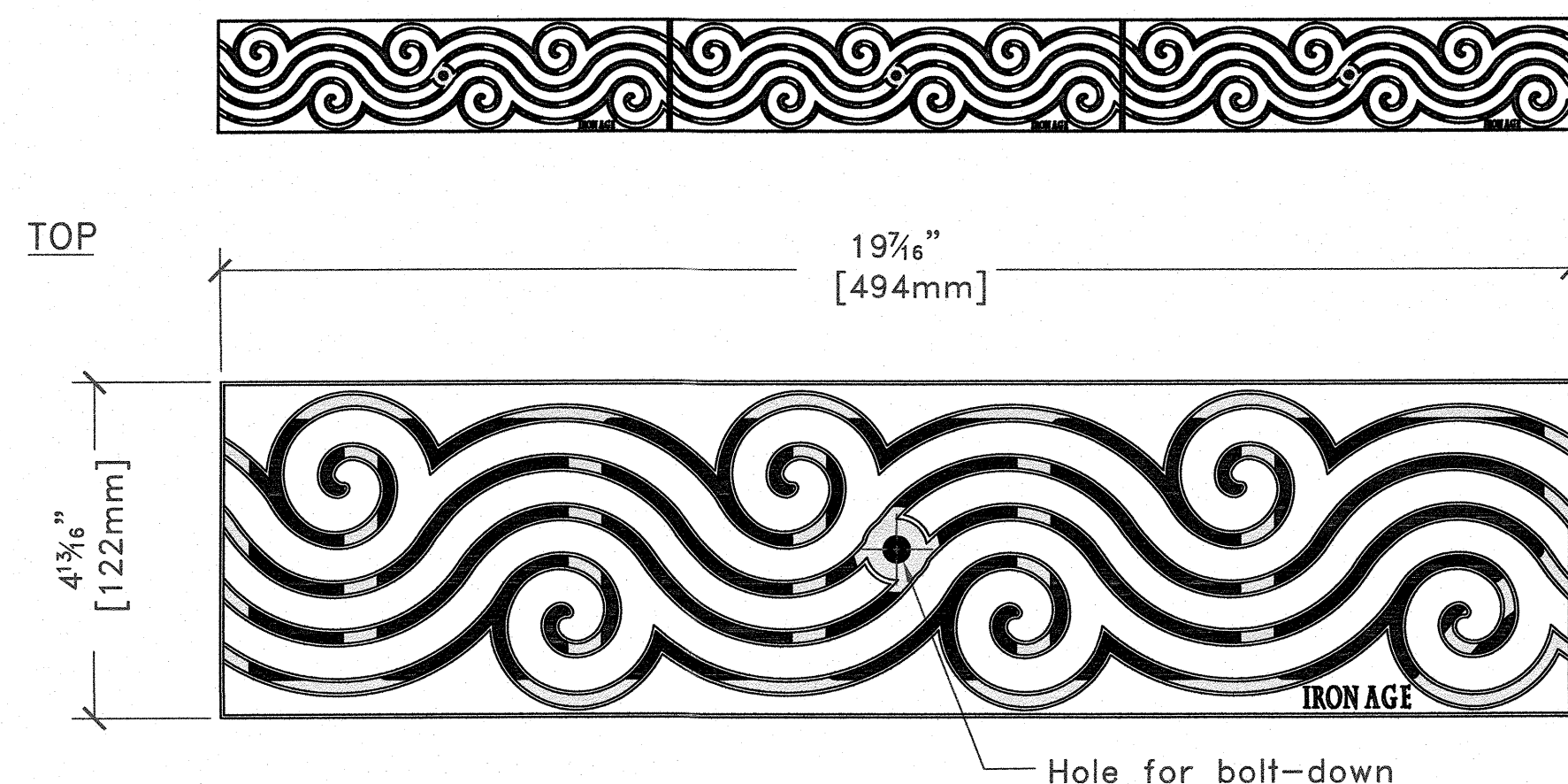


**AMBIT ENGINEERING, INC.**  
Civil Engineers & Land Surveyors  
200 Griffin Road - Unit 3  
Portsmouth, N.H. 03801-7114  
Tel (603) 430-9282  
Fax (603) 436-2315

**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).

**3 GRATES ARRAYED**



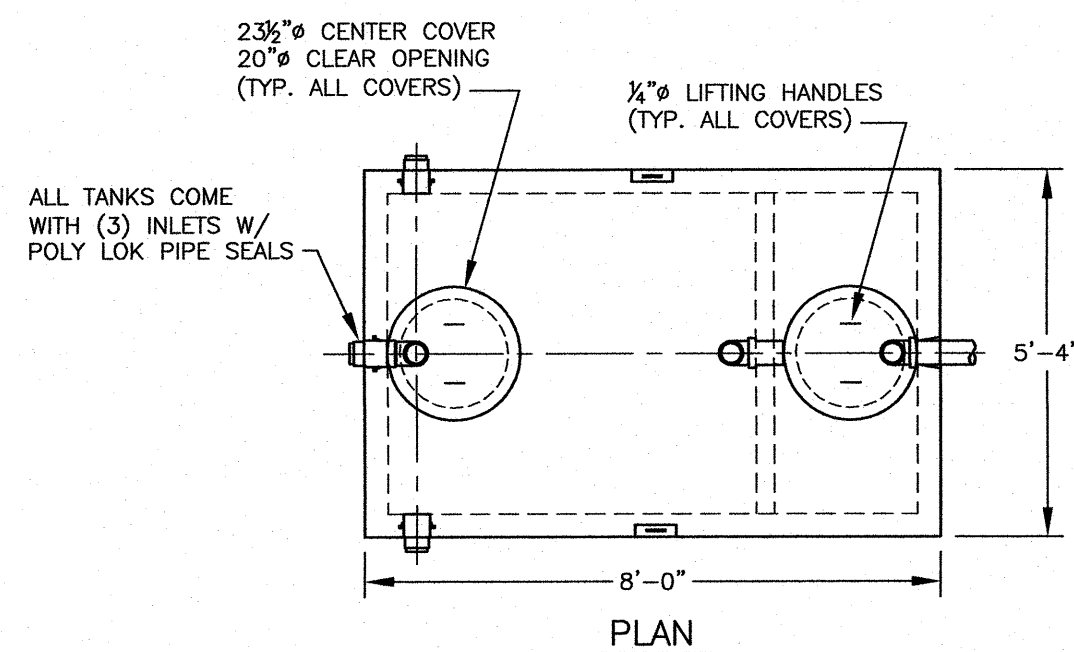
**IRON AGE DESIGNS**  
2104 SW 152nd St #4 TEL 206.276.0925  
Burien, WA 98166 FAX 206.257.0318  
www.ironagegrates.com

Argo 5"x20" Heel-Proof Trench Grate drawn by: CD  
scale: NTS  
drawing no. ARG.A.05x20 date: 01/01/09

**NOTES:**

1. Material: cast iron
2. Natural finish
3. Total thickness: 1 1/8"
4. Fits drain channels manufactured by:  
ABT® PolyDrain®  
ACO™ KlassikDrain-K100/K100S  
MEADRAIN® 1000 Series
5. No openings greater than 1/4"
6. Due to casting inconsistencies, all dimensions are nominal.
7. Weight: 11 lbs. per casting

© 2009 Iron Age Designs



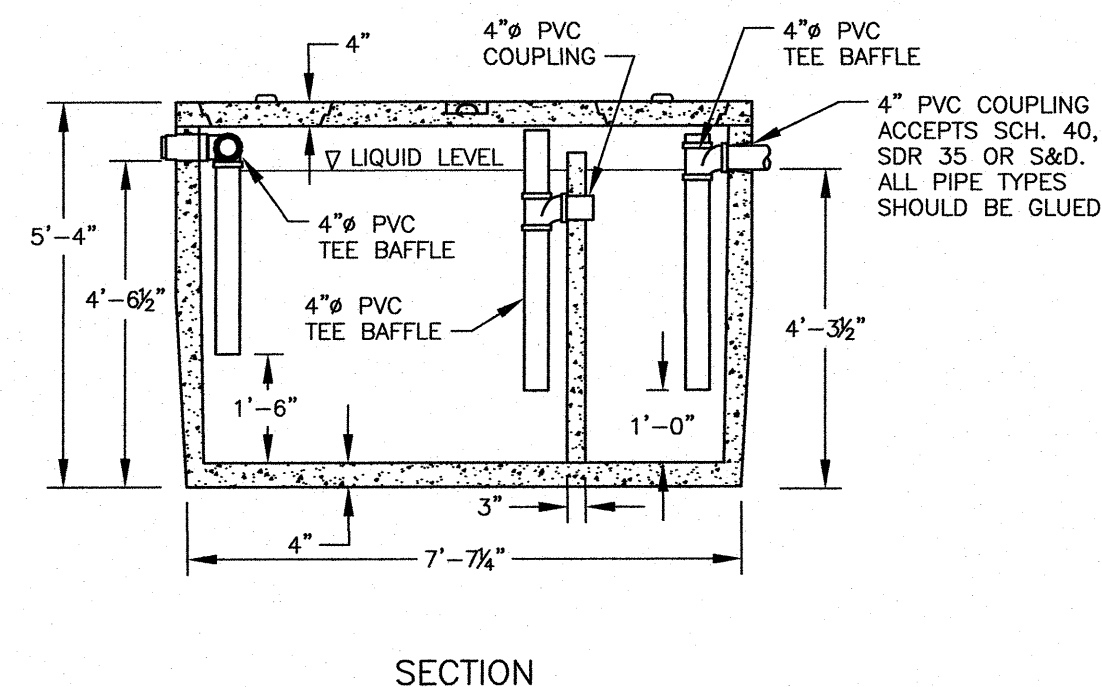
**GENERAL NOTES:**

**CONCRETE SPECIFICATIONS:**

- 1) 4000 PSI @ 28 DAYS.
- 2) 4%-6% ENTRAINED AIR.
- 3) TANK PENETRATIONS ARE INTEGRALLY CAST.
- 4) ALL JOINTS SEALED WITH BUTYL RUBBER JOINT SEALANT.

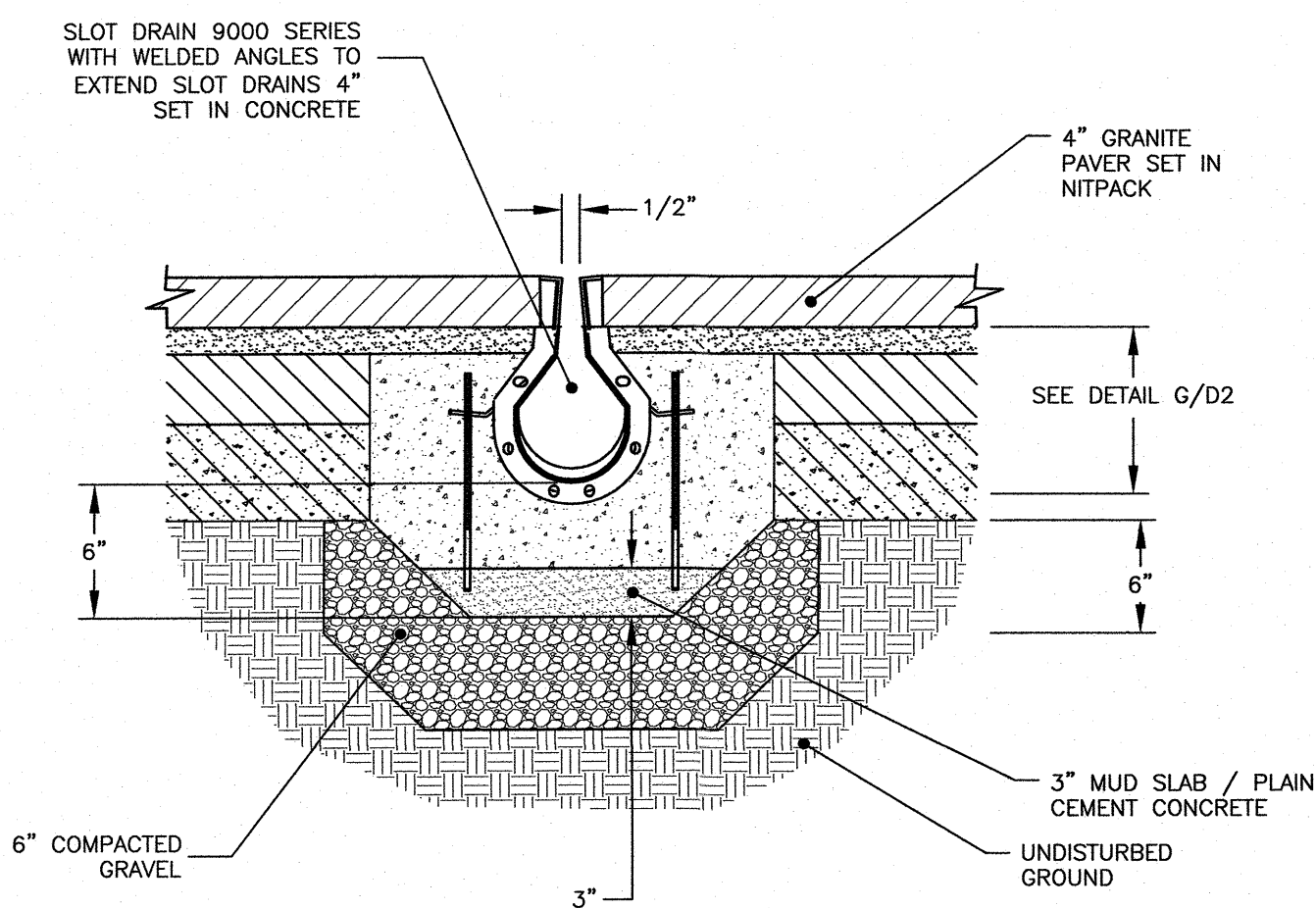
**GREASE TRP INFORMATION:**

- 1) TANKS SHOULD BE PUMPED AS NEEDED.
- 2) ACCESS COVERS SHOULD HAVE RISERS TO BRING COVER ACCESS TO GRADE.
- 3) TANKS CAN BE VACUUM TESTED AT AN ADDITIONAL COST.

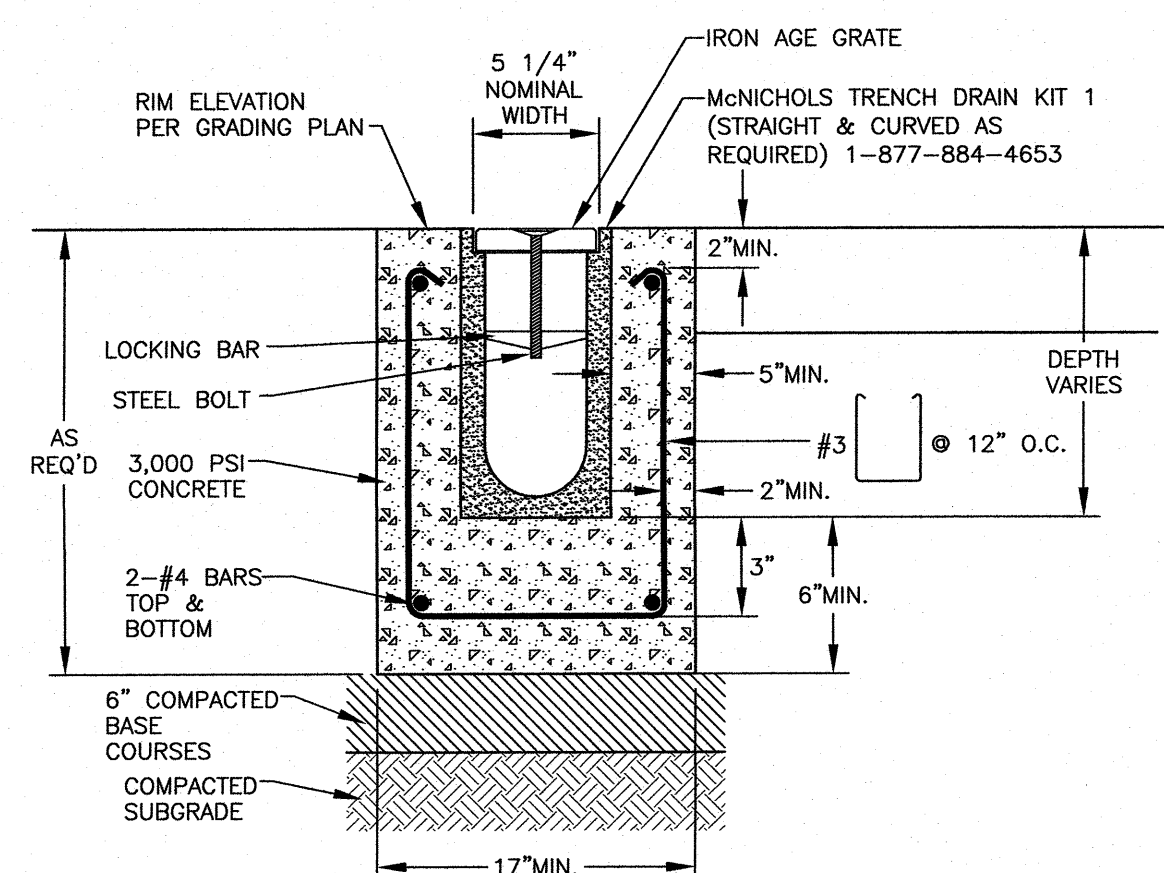


**Q** IRON AGE GRATE DETAIL  
**C3** WWW.IRONAGEGRATES.COM ARGO 5" X 20" HEEL PROOF TRENCH GRATE NTS  
(877)418-3568

**T** AMERICAN CONCRETE INDUSTRIES  
**C4** 1000 GALLON 2 COMP. GREASE TRAP NTS  
9,200 Lbs ITEM # 8827



**R** SLOT DRAIN DETAIL  
**C5** WWW.SLOTDRAINSYSTEMS.COM NTS  
(855)497-7508

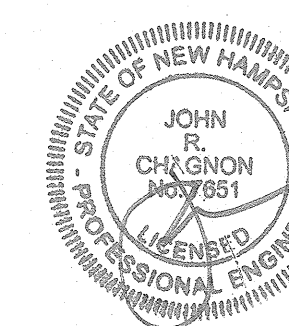


**S** TRENCH DRAIN DETAIL  
**C5** AT FOUNTAIN AND BENCH NTS

**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



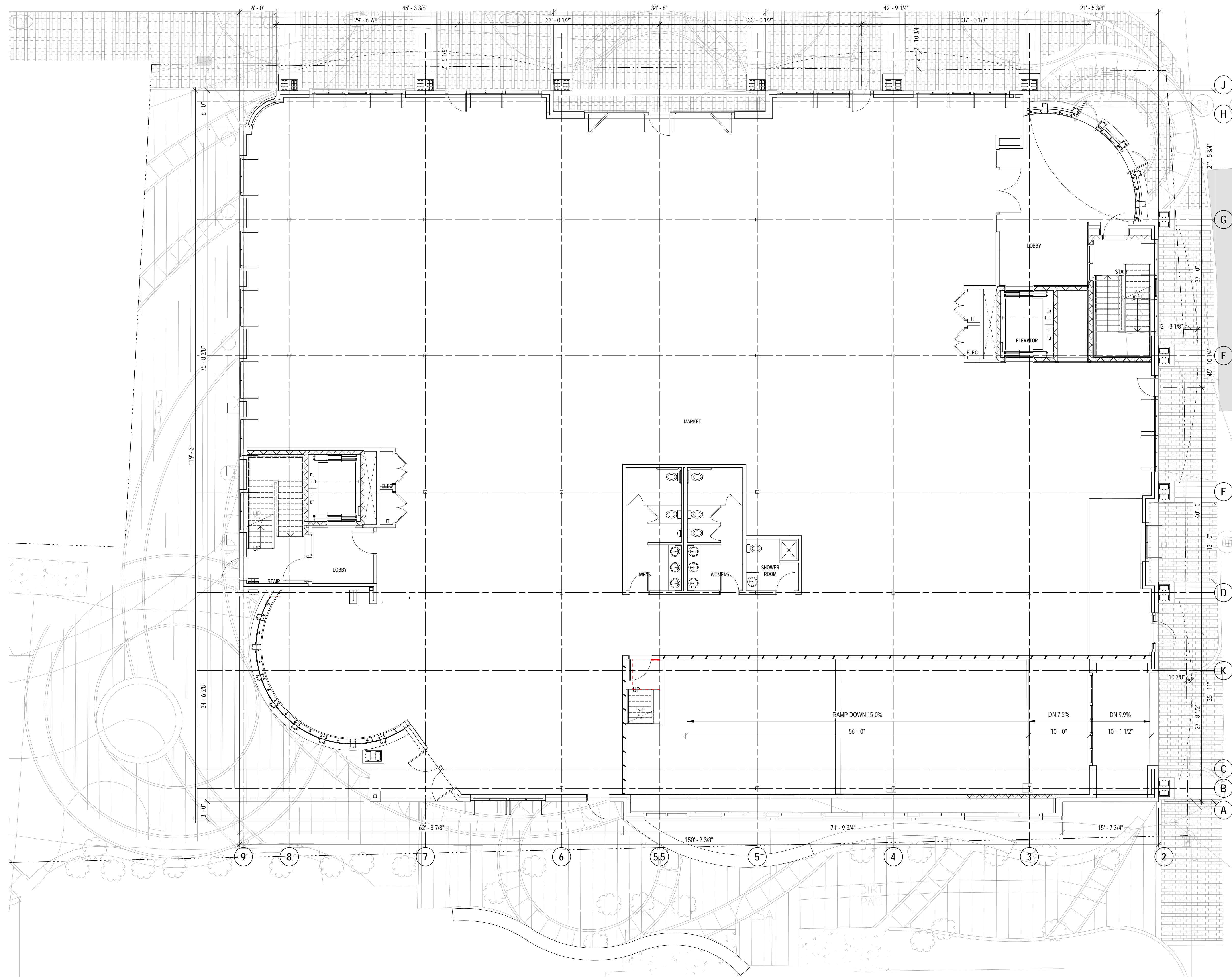
SCALE: AS SHOWN OCTOBER 2019

DETAILS

**D4**



11/18/2019 2:13:00 PM: C:\Revit\Projects\2018\081.02\_60 Penhallow Street-CENTRAL\_edocof98.rvt



**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

**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**

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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: 1/8" = 1'-0"  
Date: 12/02/2019  
Project Number: P19081.02

REVISIONS		
NO.	DESCRIPTION	DATE

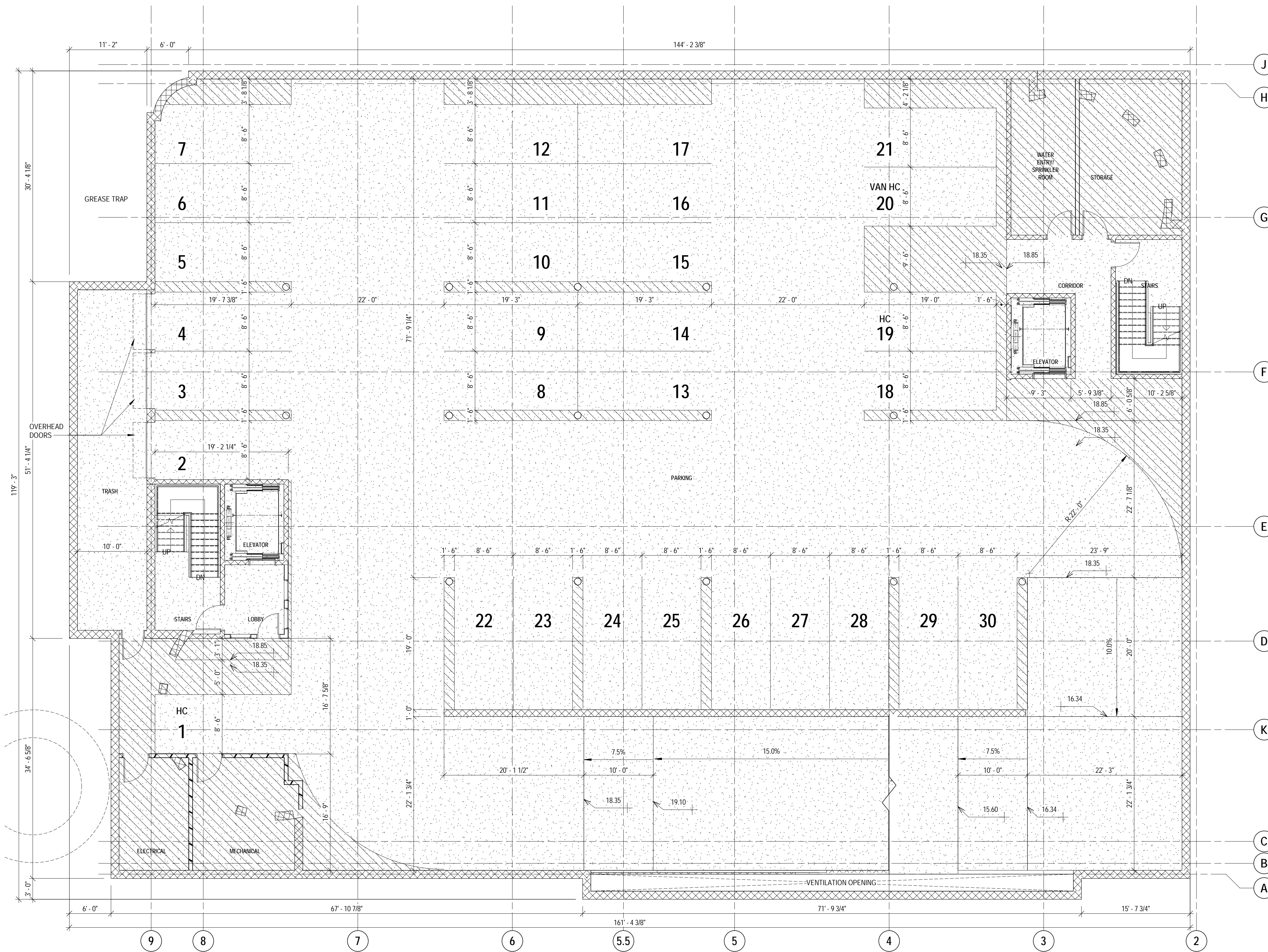
TAC SUBMISSION

PARKING LEVEL  
1 PLAN

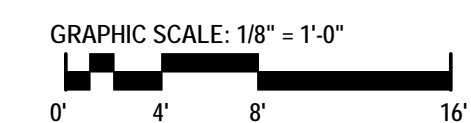
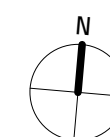
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GROSS SQUARE FOOTAGE	
NOTE: MEASURED TO 6" INTO EXTERIOR WALLS FROM INSIDE FACE	
ABOVE GRADE	
FIRST FLOOR	16,462
MECHANICAL MEZZANINE	724
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GRAND TOTAL (ABOVE AND BELOW TOTALS)	95,278
FOOTPRINT	
NOTE: MEASURED TO OUTSIDE FACE OF EXTERIOR WALLS	
FIRST FLOOR	17,197



1 PARKING LEVEL 1 PLAN  
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

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NO.	DESCRIPTION	DATE

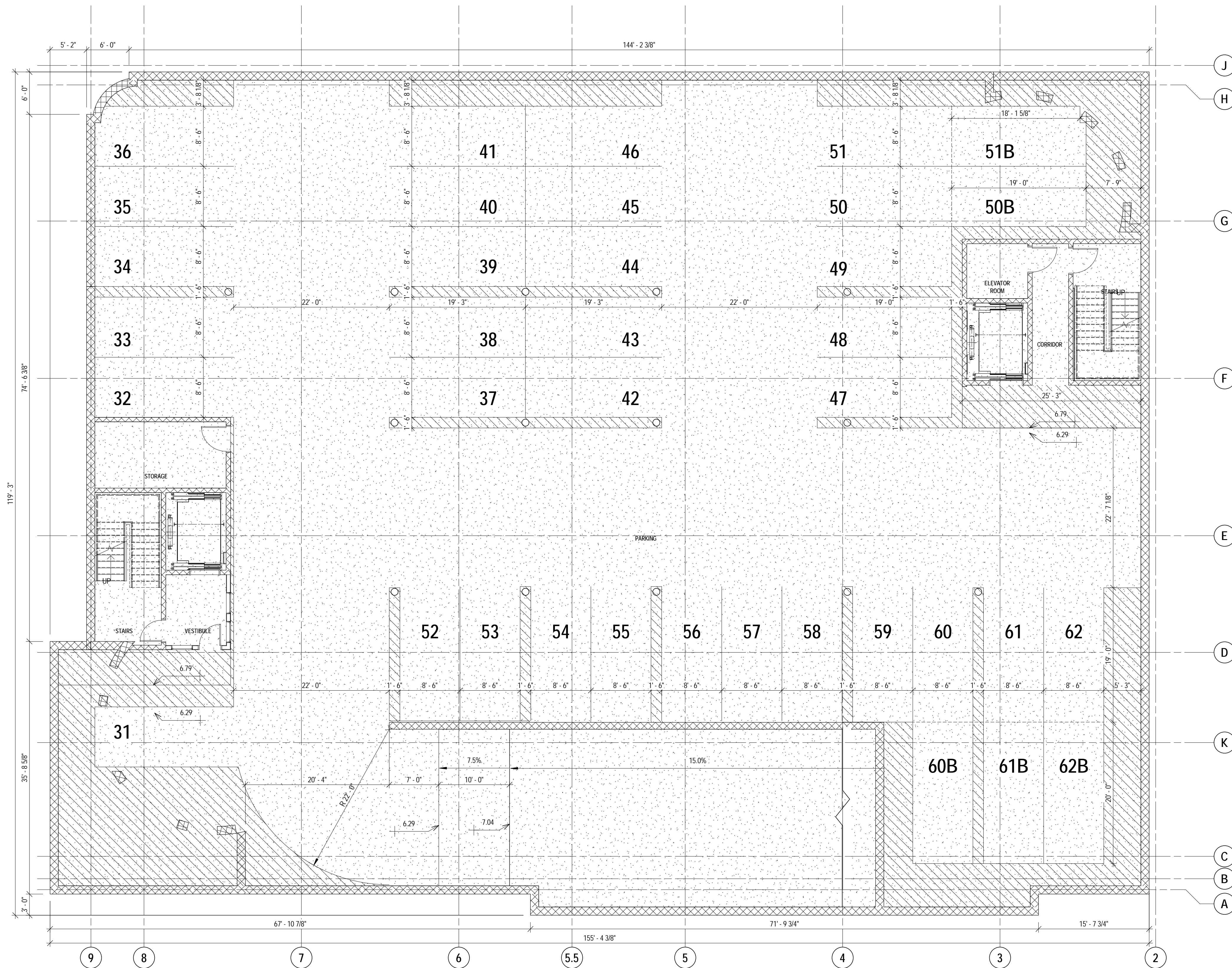
TAC SUBMISSION

PARKING LEVEL  
2 PLAN

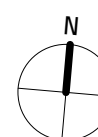
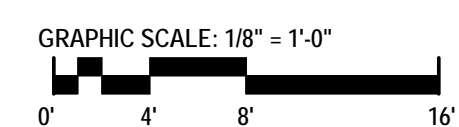
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GROSS SQUARE FOOTAGE	
NOTE: MEASURED TO 6" INTO EXTERIOR WALLS FROM INSIDE FACE	
ABOVE GRADE	
FIRST FLOOR	16,462
MECHANICAL MEZZANINE	724
SECOND FLOOR	16,669
THIRD FLOOR	16,130
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SECOND FLOOR	17,569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



1 PARKING LEVEL 2 PLAN  
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

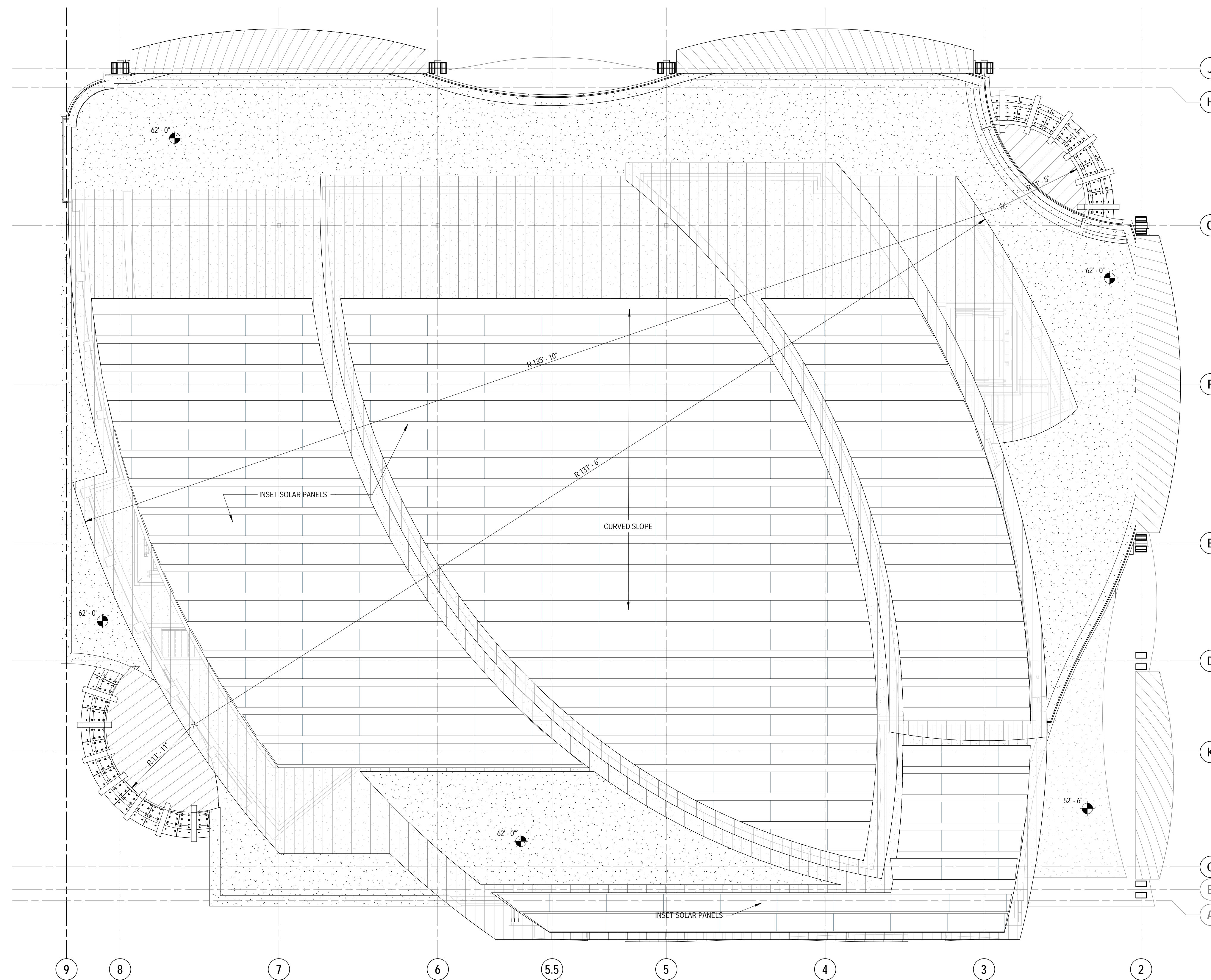
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NO.	DESCRIPTION	DATE

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ROOF PLAN

A0.02

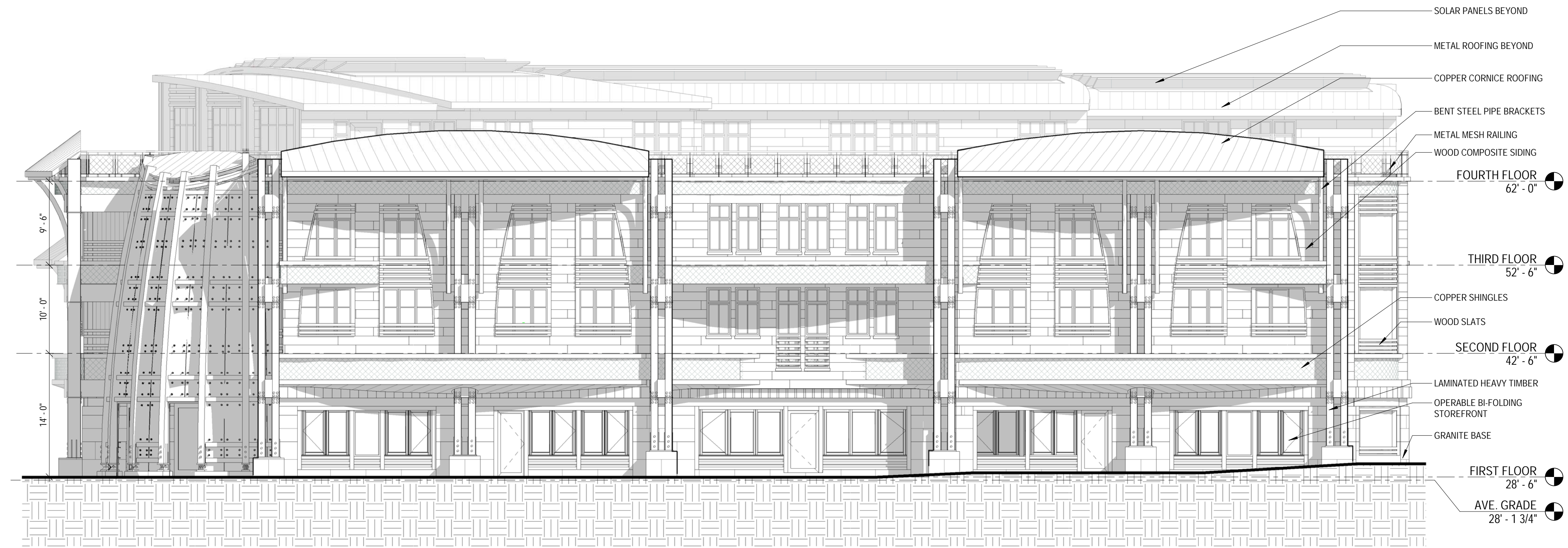
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1 ROOF OVERALL PLAN  
1/8" = 1'-0"

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



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

60 PENHALLOW STREET  
at BRICK MARKET

Penhallow Street  
Portsmouth, NH

DAGNY TAGGART LLC  
McNABB PROPERTIES

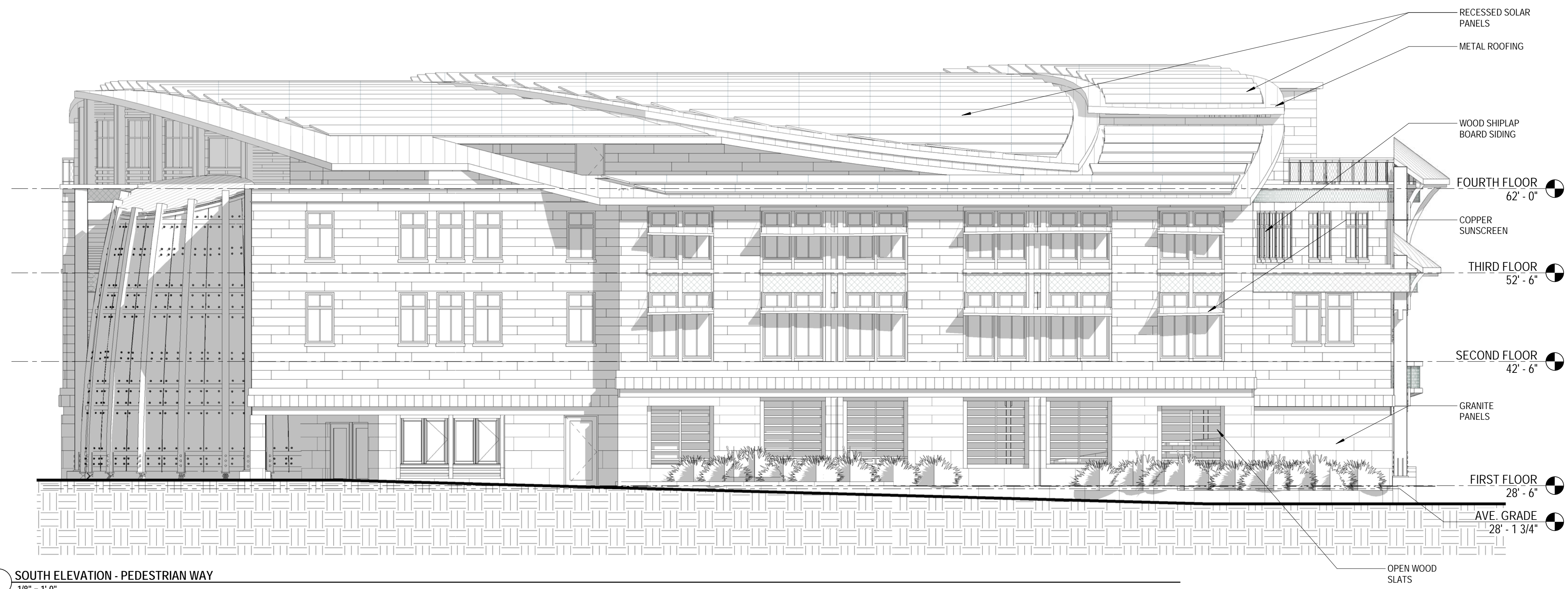
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Project Number: P19081.02

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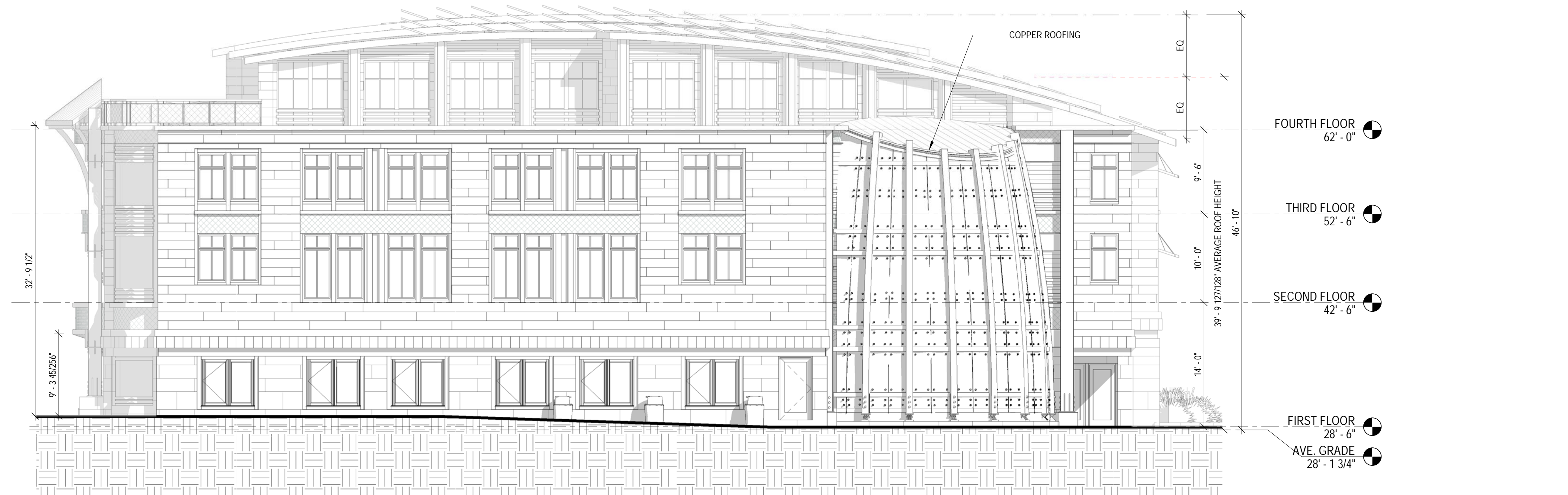
TAC SUBMISSION

EXTERIOR  
ELEVATIONS





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



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

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

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EXTERIOR  
ELEVATIONS





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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

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TANGRAM  
RENDERINGS

A0.05

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NORTHEAST VIEW



NORTHWEST VIEW



SOUTHWEST VIEW



SOUTHEAST VIEW

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DANIEL STREET

CITY STANDARD CORNBREAD STREET LAMP - field verify location

CITY STANDARD CORNBREAD STREET LAMP - field verify location



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PORTSMOUTH, NH 03801  
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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

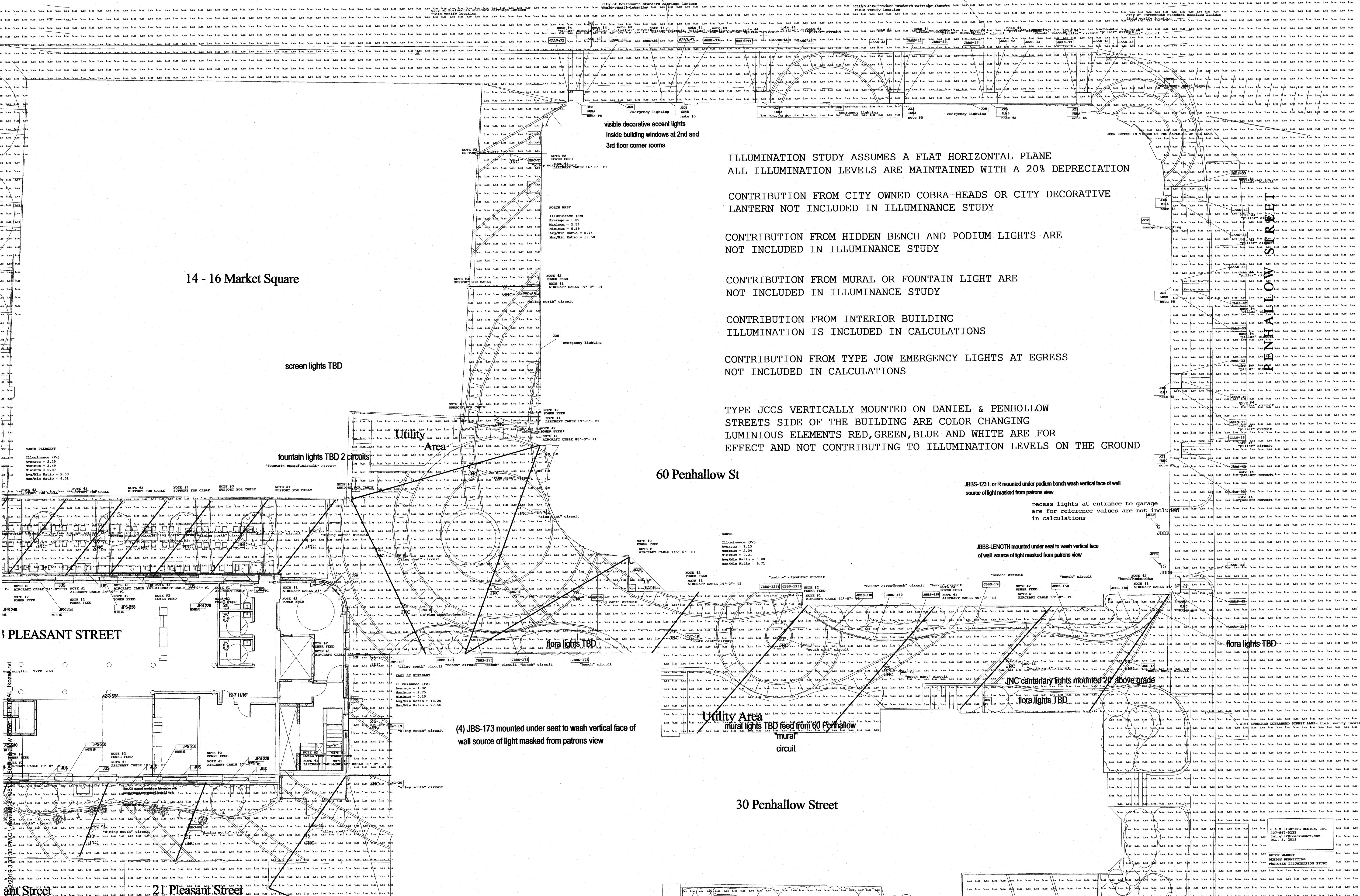
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PHOTOMETRIC  
PLAN

J & M LIGHTING DESIGN, INC.  
207-967-5223  
jmlight@comcast.com  
DEC. 4, 2019

A0.07-R1

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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 & PENHALLOW  
STREETS SIDE OF THE BUILDING ARE COLOR CHANGING  
LUMINOUS ELEMENTS RED, GREEN, BLUE AND WHITE ARE FOR  
EFFECT AND NOT CONTRIBUTING TO ILLUMINATION LEVELS ON THE GROUND

14 - 16 Market Square

screen lights TBD

fountain lights TBD 2 circuits

60 Penhallow St

JBS-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

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

PLEASANT STREET

flora lights TBD

flora lights TBD

JNC canterinary lights mounted 20' above grade

(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



December 23, 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: Updated Trip Generation Summary  
#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 information was provided to the City in a letter titled *Trip Generation Summary Letter*<sup>1</sup> on November 18, 2019. On December 3, 2019, GPI received comments from the City's Technical Advisory Committee (TAC) related to the *Trip Generation Summary Letter* regarding the distribution of office trips, missing numbers from some figures, and the critical time period for analysis. This letter is intended to provide an update to the previous trip generation and distribution assumptions to address the comments from TAC, as well as identify the scope of the full *Traffic Impact and Access Study (TIAS)*.

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<sup>1</sup> *Trip Generation Summary Letter; #60 Penhallow Street – Portsmouth, NH; Greenman-Pedersen, Inc.; November 18, 2019.*



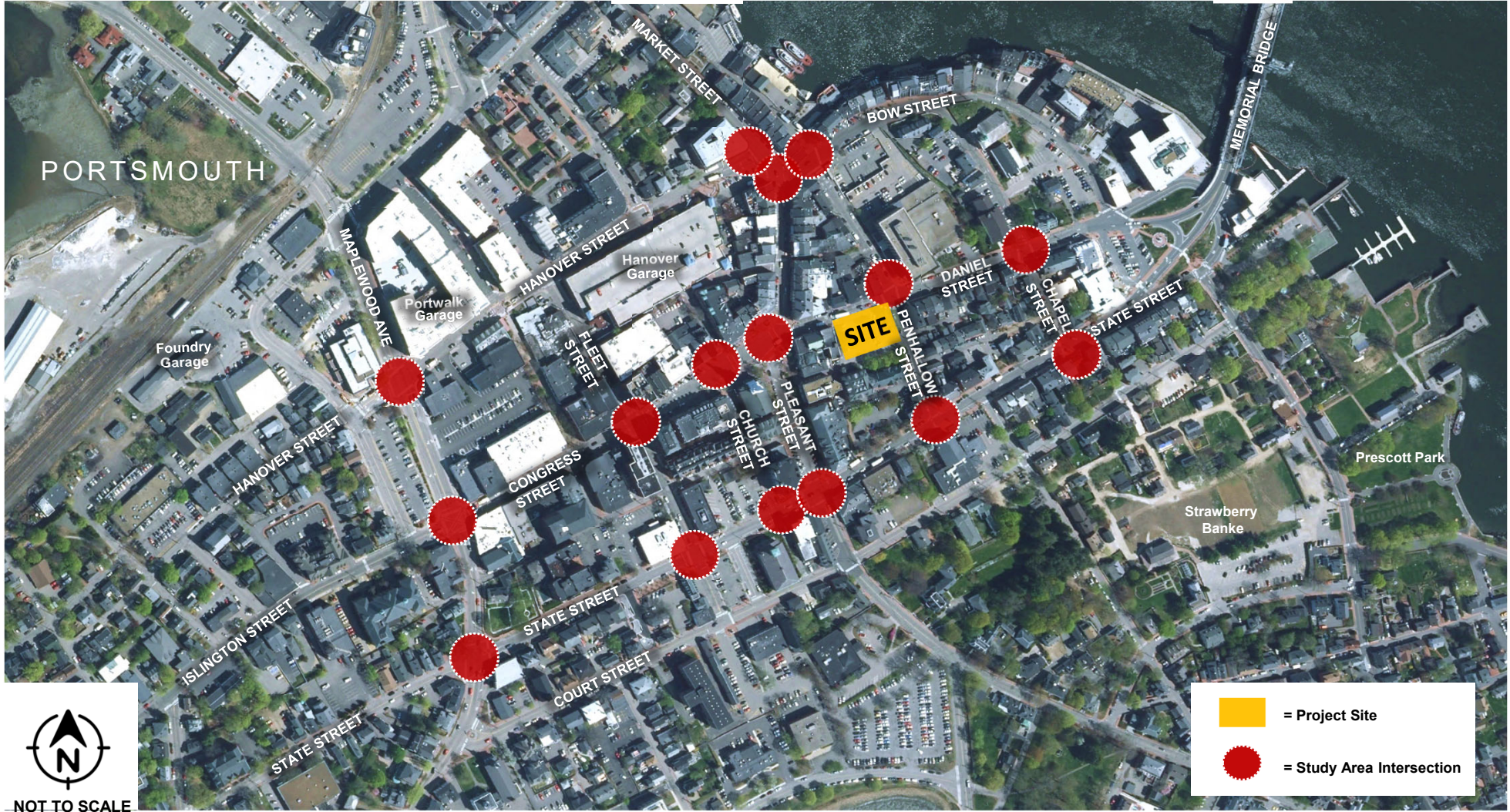


Figure 1  
Site Location Map



## **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*<sup>2</sup> 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*<sup>3</sup>, 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

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<sup>2</sup> *Trip Generation, 10<sup>th</sup> Edition*. Institute of Transportation Engineers; Washington, DC; 2017.

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

<sup>a</sup> Based on ITE LUC 710 (General Office) for ±41,600 SF.

<sup>b</sup> 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.

<sup>c</sup> Five percent of office trips based on U.S. Census data.

<sup>d</sup> Trips based on mixed-use percentages to retail, residential, hotel, and entertainment uses.

<sup>e</sup> General office external trips minus walking / biking trips.

<sup>f</sup> Restaurant external trips minus walking / biking trips.

<sup>g</sup> 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. The *Trip Generation Summary Letter* assumed that a portion of the office trips coming from the Memorial Bridge would utilize Sheafe Street to access the on-site parking garage. The TAC noted that Sheafe Street is a narrow, residential street, and that use of Sheafe Street was not desirable. The Applicant agreed to place a condition in the office lease(s) that employees must be directed not to utilize Sheafe Street to access the parking garage. As a result, these site-generated trips were reassigned to utilize Church Street to State Street to access Penhallow Street. The updated trip distribution and site-generated trip networks are provided as an Attachment to this letter.

**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
<u>Islington Street to/from West</u>	<u>5</u>	<u>10</u>
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.

### DETERMINATION OF CRITICAL PEAK HOUR

During the October 28, 2019 scoping meeting, the City’s Planning Department requested that the TIAS include an analysis of the Project-related traffic impacts during the weekday PM peak period, as this time period had previously been determined to be the critical time period for traffic volumes within the downtown area. On December 3, 2019, the TAC noted that based on the findings of the *Trip Generation Summary Letter*, the Project is anticipated to generate the highest volume of traffic during the Saturday midday peak period. The TAC requested that GPI provide a traffic volume comparison to assess whether the weekday PM or Saturday midday peak period would be the critical period for analysis based on Build traffic volumes with the proposed development in place.

GPI obtained existing traffic volumes from two sources, New Hampshire Department of Transportation (NHDOT) count station data provided on the Transportation Data Management System, and manual turning movement counts collected at several downtown intersections provided by the City’s Planning Department. GPI then added the projected site-generated trips through each of these count locations during the weekday PM and Saturday midday peak hours to estimate the Build traffic volumes. The Build volumes for the weekday PM and Saturday midday peak hours were compared to assess which was higher and establish an overall critical time period for analysis. The detailed calculations are provided as an Attachment to this letter and the results are summarized in Tables 3 and 4 below.

**Table 3**  
**TRAFFIC VOLUME COMPARISON – NHDOT COUNT STATION DATA**

Location	Existing Volume		Site-Generated Trips		Build Volume	
	Weekday PM	Saturday Midday	Weekday PM	Saturday Midday	Weekday PM	Saturday Midday
Maplewood Avenue	987	865	61	128	<b>1,048</b>	993
Market Street	1,036	875	32	63	<b>1,068</b>	938
Memorial Bridge	1,232	1,202	28	69	1,260	<b>1,271</b>
Islington Street	841	753	12	40	<b>853</b>	793
Middle Road	957	992	34	100	991	<b>1,092</b>
Congress Street	548	506	27	21	<b>575</b>	527
<b>Total Network</b>	<b>5,601</b>	<b>5,193</b>	<b>194</b>	<b>421</b>	<b>5,795</b>	<b>5,614</b>

Four out of six of the NHDOT count stations indicate that the weekday PM peak hour will be the critical time period for analysis under Build conditions. The Existing weekday PM peak hour volumes are higher than Saturday volumes at five of the six locations. For the two locations where the Saturday volumes are higher (both on Route 1), the weekday PM peak hour volumes are within one (1) to nine (9) percent of the Saturday midday volumes. When considering the overall network (sum of all count station data), the weekday PM peak hour volumes are approximately three (3) higher than the Saturday midday volumes.



**Table 4**  
**TRAFFIC VOLUME COMPARISON – CITY’S TMC DATA**

Location	Existing Volume		Site-Generated Trips		Build Volume	
	Weekday PM	Saturday Midday	Weekday PM	Saturday Midday	Weekday PM	Saturday Midday
Maplewood Ave / Congress St / Islington St / Middle St	1,442	1,387	66	137	1,508	<b>1,534</b>
Maplewood Ave / Deer St	1,611	1,165	61	128	<b>1,672</b>	1,293
Maplewood Ave / Hanover St	1,371	1,255	100	245	1,471	<b>1,500</b>
State St / Middle St	1,158	1,077	38	104	<b>1,196</b>	1,118
<b>Total Network</b>	<b>5,582</b>	<b>4,884</b>	<b>265</b>	<b>624</b>	<b>5,847</b>	<b>5,508</b>

Based on the TMC data that the City collected in Fall 2019, the existing volumes are higher during the weekday PM peak hour for all four study area intersections. However, based on the total (Build) trips, two of the intersections indicate the weekday PM peak hour is the critical time period and two indicate that the Saturday midday is the critical time period. For those where the Saturday volumes are higher, the weekday PM volumes are within two (2) percent of the Saturday midday volumes. For the Maplewood Avenue / Deer Street intersection, the weekday PM volumes are 23 percent higher than the Saturday volumes. When considering the overall network (sum of all intersection data), the weekday PM peak hour volumes are approximately six (6) percent higher than the Saturday midday volumes.

It should be noted that the Saturday midday peak hour results in the critical time period at the Maplewood / Congress / Islington / Middle and the Maplewood / Hanover intersections mainly due to the assumption that all restaurant trips will park in the Hanover Street garage. In reality, some of these trips will park in on-street parking spaces along the surrounding roadways or in other parking areas. In addition, only a 45 percent walking/biking credit was applied to restaurant trips during the Saturday midday peak hour based on ITE data, while a 64 percent walking/biking credit was applied in the weekday PM condition. GPI anticipates that a significantly higher portion of restaurant trips will be walking/biking trips that are shared with other uses in the downtown during the Saturday midday time period, particularly during the warmer-weather months. Therefore, the Project’s impact on these intersections during the Saturday midday peak hour may be heavily over-stated in Table 4.

GPI submitted the data above to the City’s Parking and Transportation Engineer, Eric Eby, P.E., via email on December 9, 2019 and received confirmation on the same date that the weekday PM peak hour continues to be the critical peak period for analysis based on Build conditions traffic volumes. Therefore, the full TIAS will be prepared based on the weekday PM peak hour only for analysis purposes.



## STUDY AREA INTERSECTIONS

The City's Planning Department has requested that the full TIAS evaluate the Project's impacts on any intersection that will experience an increase of 50 trips or more during the peak hour as a result of the Project. Based on this threshold, detailed capacity and queue analyses will be performed for the following intersections as part of the TIAS:

- Maplewood Avenue / Hanover Street
- Maplewood Avenue / Islington Street / Congress Street / Middle Street
- Middle Street / State Street
- Daniel Street / Chapel Street
- Daniel Street / Penhallow Street
- Market Street / Hanover Street

## SUMMARY

GPI has estimated the site-generated vehicle trips associated with the proposed redevelopment of #60 Penhallow Street as described in this letter. The site-generated trips were added to the existing traffic volumes at multiple locations within the downtown area to assess the critical time period for analysis, which was confirmed with the City's Parking and Traffic Engineer to be the weekday PM peak hour. This information was utilized to define the study area for detailed capacity and queue analyses to be included within a comprehensive Traffic Impact and Access Study (TIAS). The detailed site-generated traffic-volume networks have been submitted to the City's Consultant, Resource Systems Group, Inc. (RSG) to conduct the capacity and queue analysis. Once this information is received, the full TIAS will be prepared and submitted to the City for review.

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

Sincerely,

**GREENMAN-PEDERSEN, INC.**



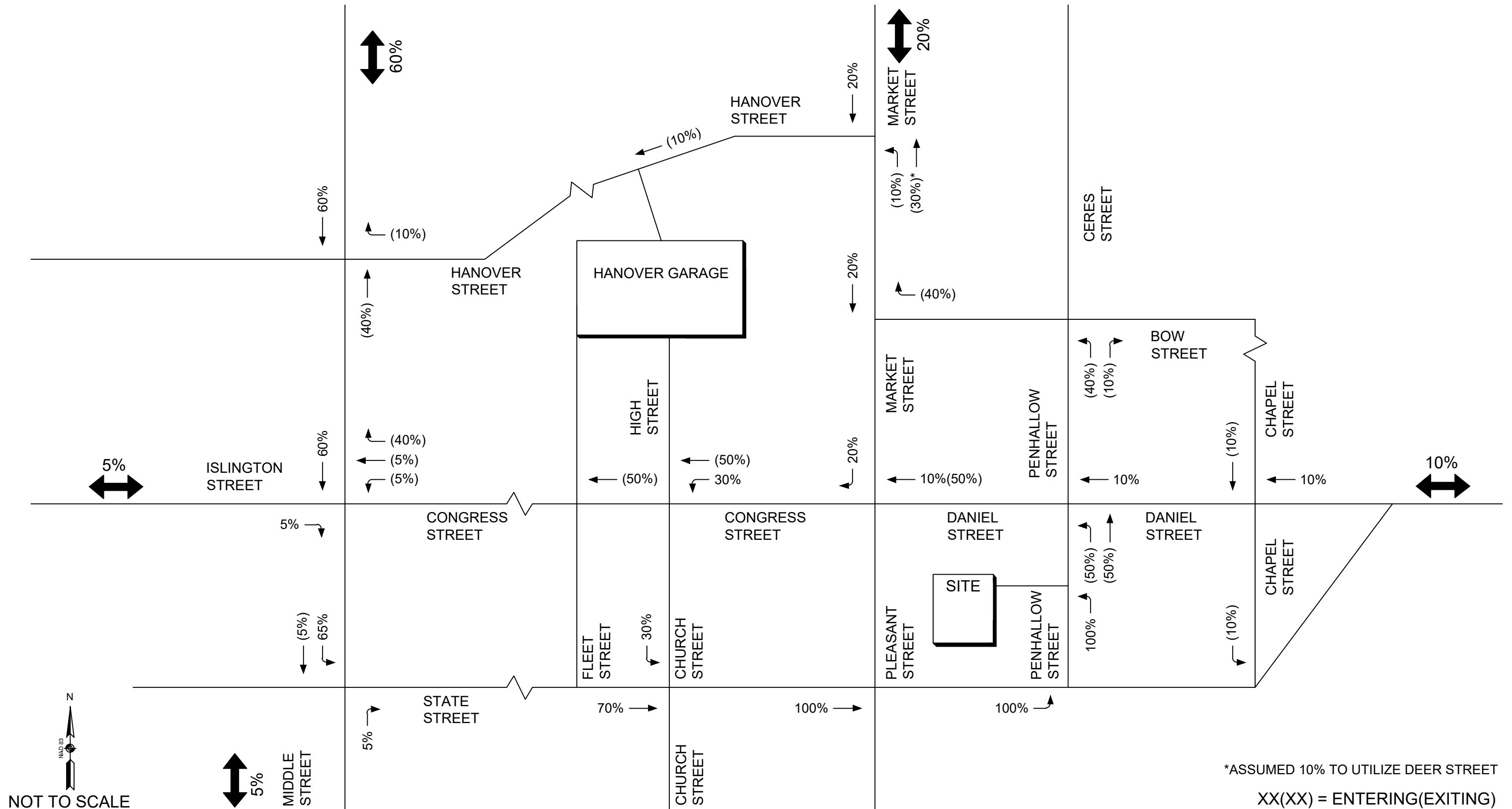
Rebecca L. Brown, P.E., PTOE  
Senior Project Manager

Enclosures:

Site-Generated Vehicle Trip Traffic-Volume Networks  
Trip Generation Calculations  
Mode Split Calculations  
Trip Distribution Calculations  
Critical Peak Hour Volume Comparison

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

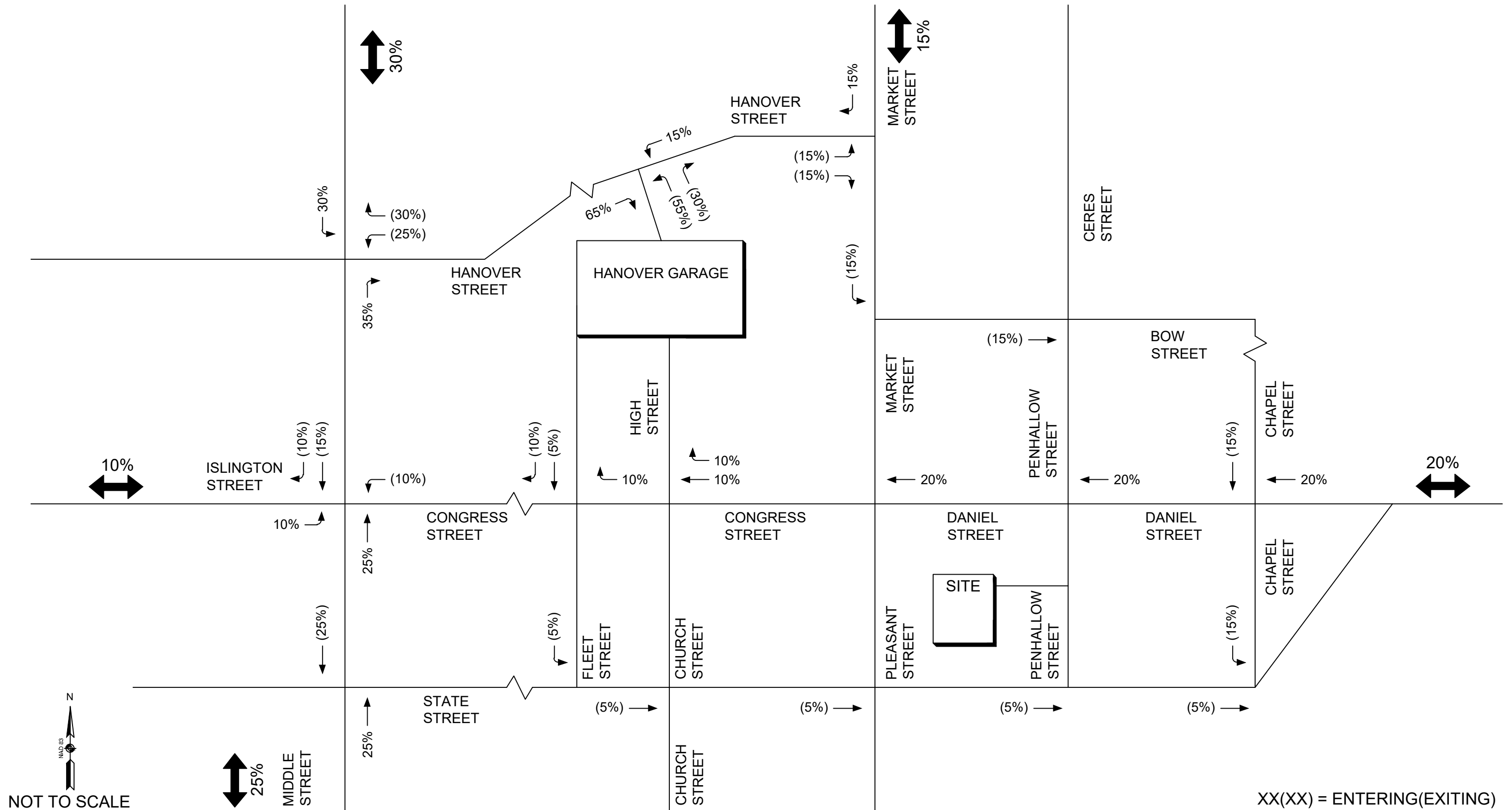




\*ASSUMED 10% TO UTILIZE DEER STREET  
 XX(XX) = ENTERING(EXITING)

**Figure 2**  
**Office Vehicle Trip Distribution**





NOT TO SCALE

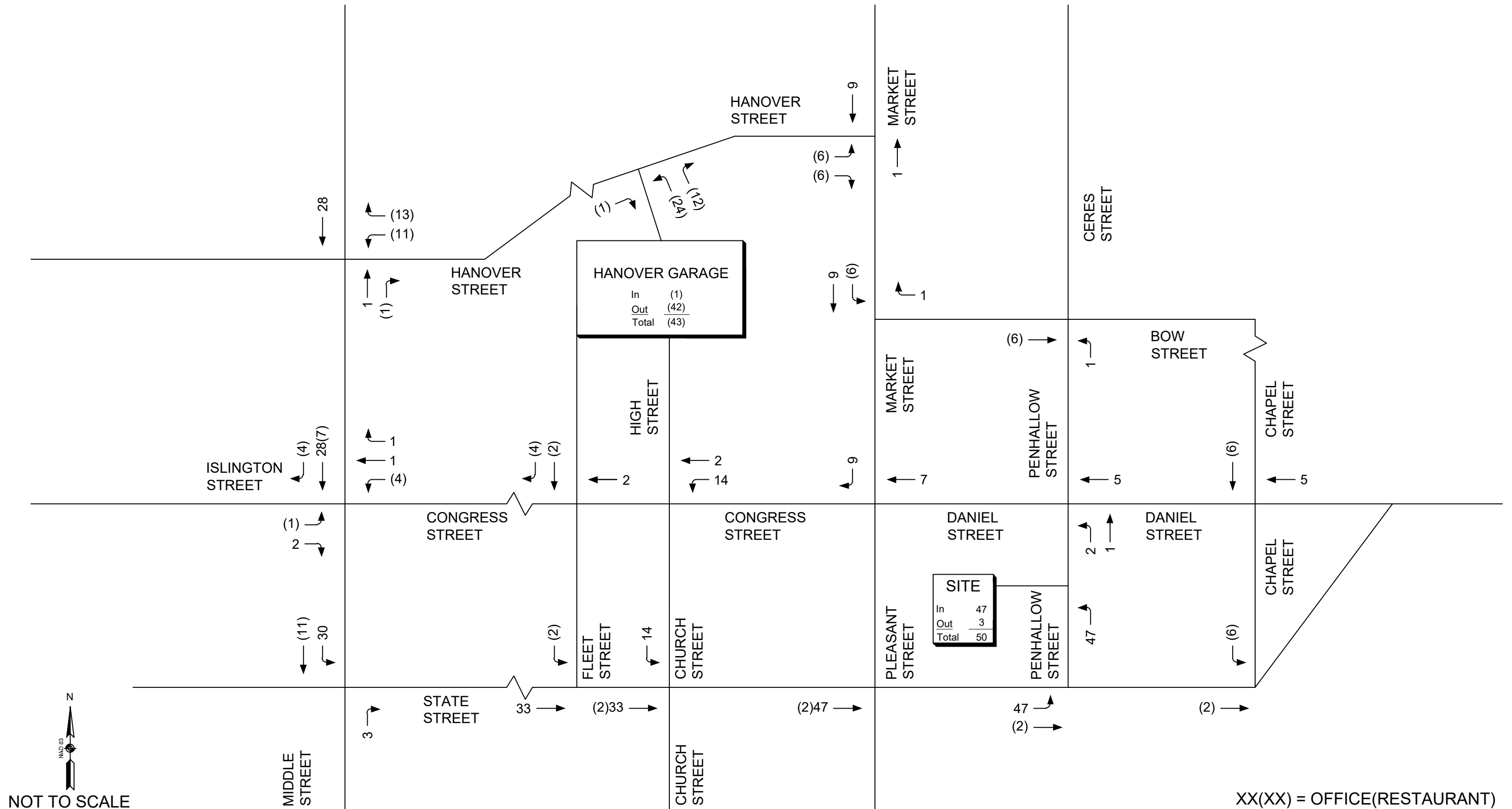


25%  
MIDDLE STREET

XX(XX) = ENTERING(EXITING)

**Figure 3**  
**Restaurant Vehicle Trip**  
**Distribution**



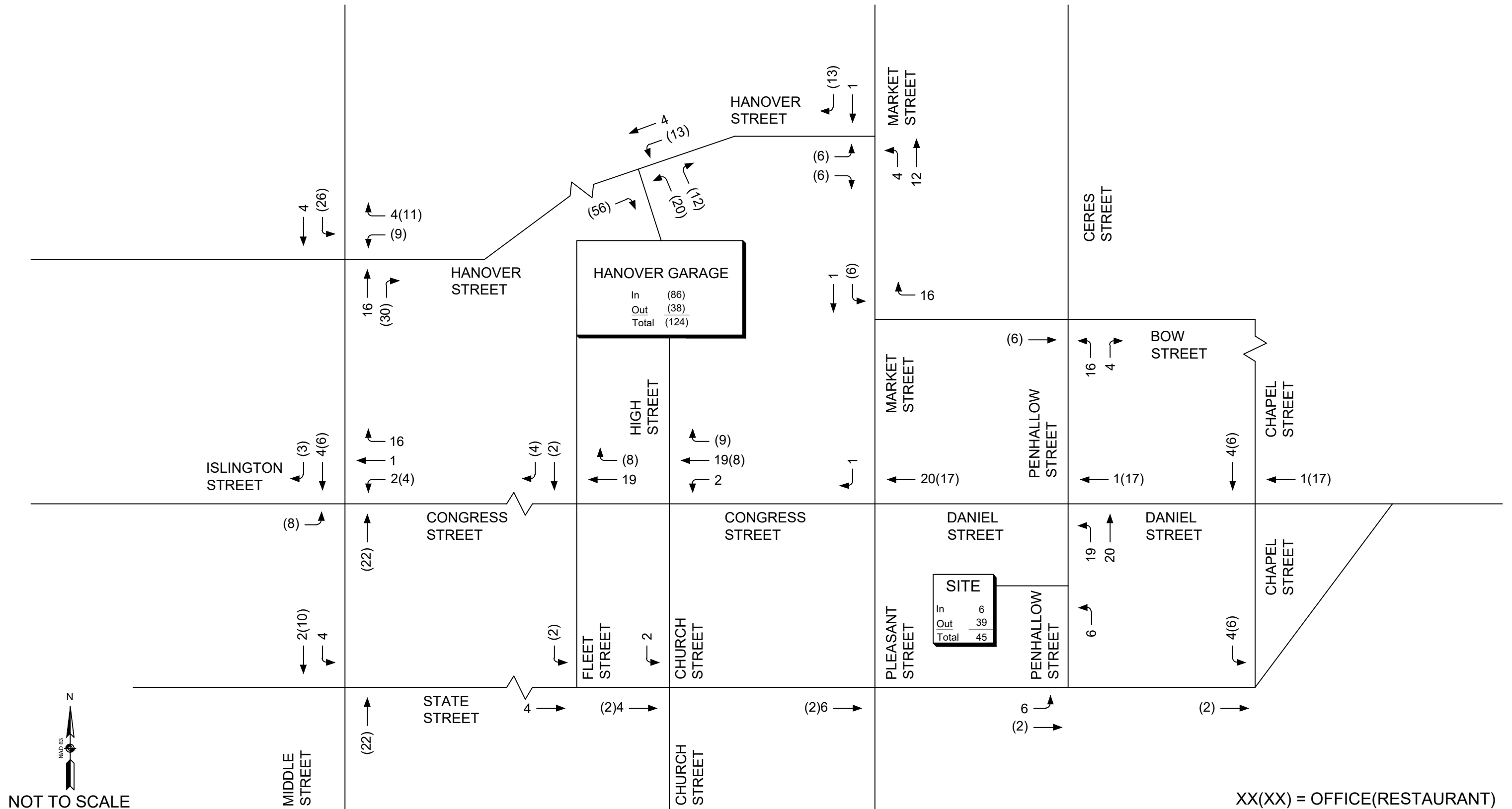


NOT TO SCALE

XX(XX) = OFFICE(RESTAURANT)

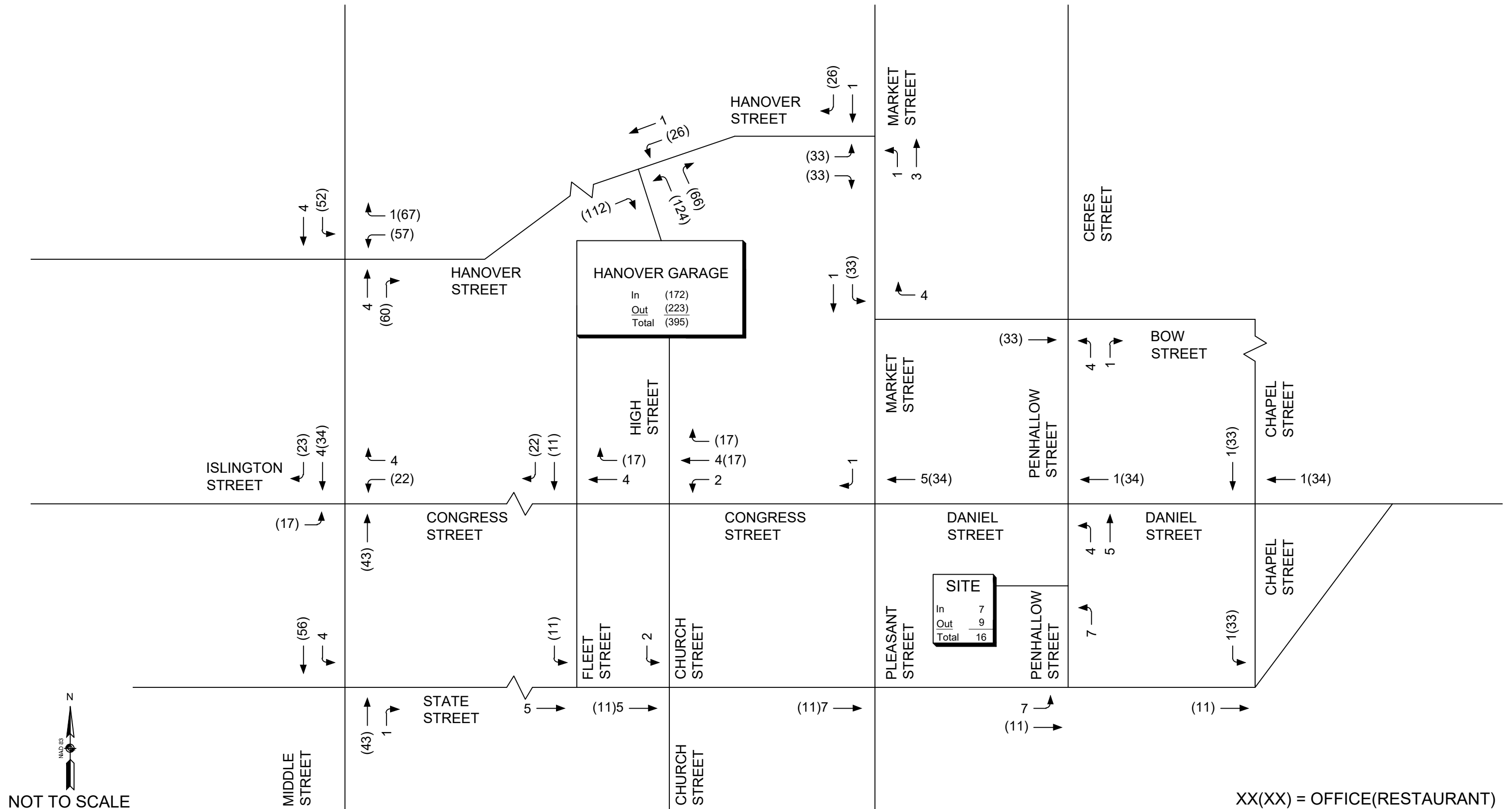
**Figure 4A**  
**Site-Generated Trips**  
**Weekday AM**





NOT TO SCALE





NOT TO SCALE

**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**

$$\ln(T) = 0.97 \ln(X) + 2.50$$

$$\ln(T) = 0.97 \ln(41.600) + 2.50$$

$$\ln(T) = 6.12$$

$$T = 453.17$$

$$T = 454 \text{ vehicle trips}$$

with 50% ( 227 vpd) entering and 50% ( 227 vpd) exiting.

**WEEKDAY MORNING PEAK HOUR OF ADJACENT STREET TRAFFIC**

$$T = 0.94 * (X) + 26.49$$

$$T = 0.94 * 41.600 + 26.49$$

$$T = 65.59$$

$$T = 66 \text{ vehicle trips}$$

with 86% ( 57 vph) entering and 14% ( 9 vph) exiting.

**WEEKDAY EVENING PEAK HOUR OF ADJACENT STREET TRAFFIC**

$$\ln(T) = 0.95 \ln(X) + 0.36$$

$$\ln(T) = 0.95 \ln(41.600) + 0.36$$

$$\ln(T) = 3.90$$

$$T = 49.49$$

$$T = 49 \text{ vehicle trips}$$

with 16% ( 8 vph) entering and 84% ( 41 vph) exiting.

**SATURDAY DAILY**

$$T = 2.21 * (X)$$

$$T = 2.21 * 41.600$$

$$T = 91.94$$

$$T = 92 \text{ vehicle trips}$$

with 50% ( 46 vph) entering and 50% ( 46 vph) exiting.

**SATURDAY PEAK HOUR OF GENERATOR**

$$T = 0.53 * (X)$$

$$T = 0.53 * 41.600$$

$$T = 22.05$$

$$T = 22 \text{ vehicle trips}$$

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**

$$T = 34.02 * (X)$$

$$T = 34.02 * 8.400$$

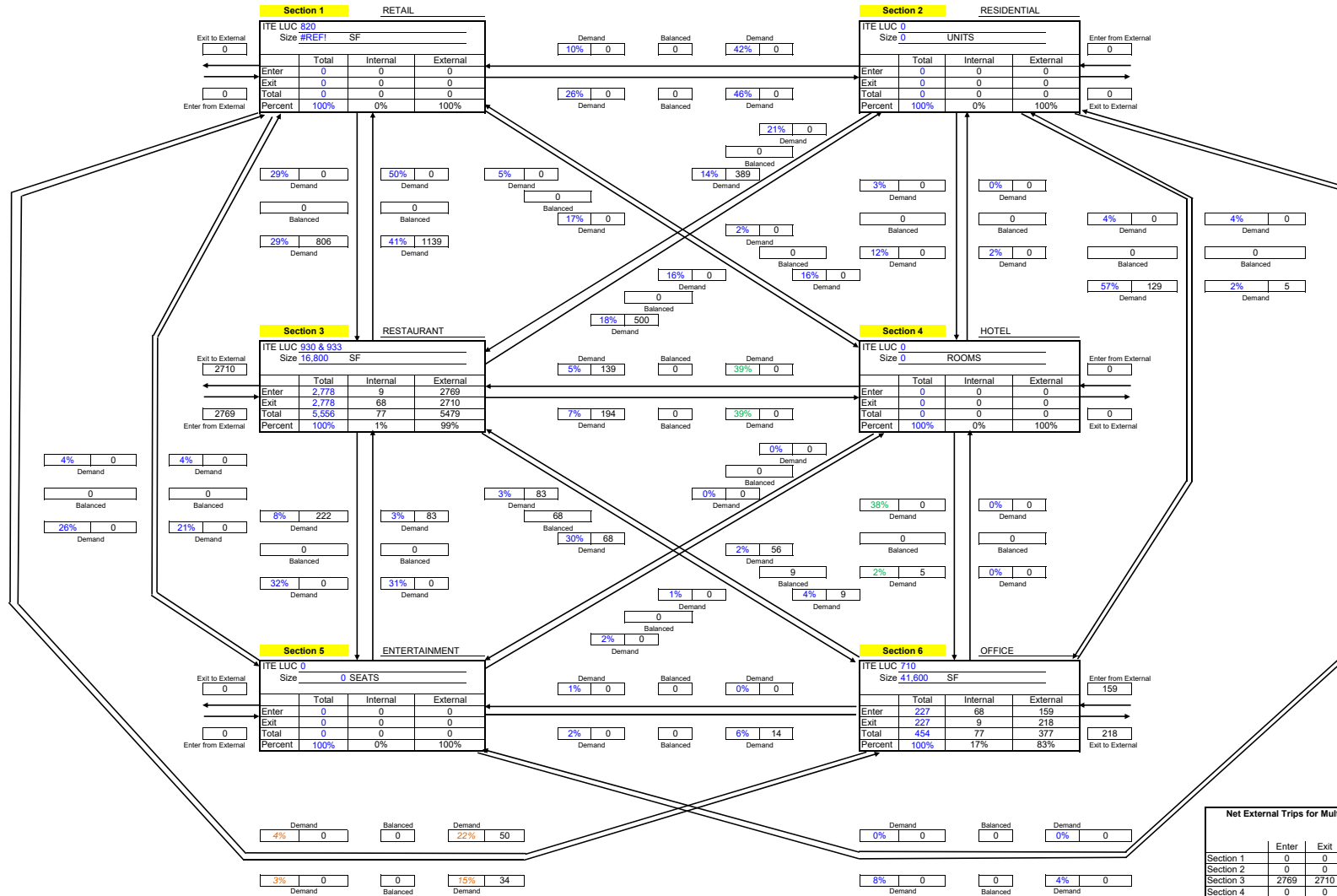
$$T = 285.77$$

T = 286 vehicle trips

with 55% ( 157 vph) entering and 45% ( 129 vph) exiting.



**MULTI-USE DEVELOPMENT  
 TRIP GENERATION  
 AND INTERNAL CAPTURE SUMMARY**

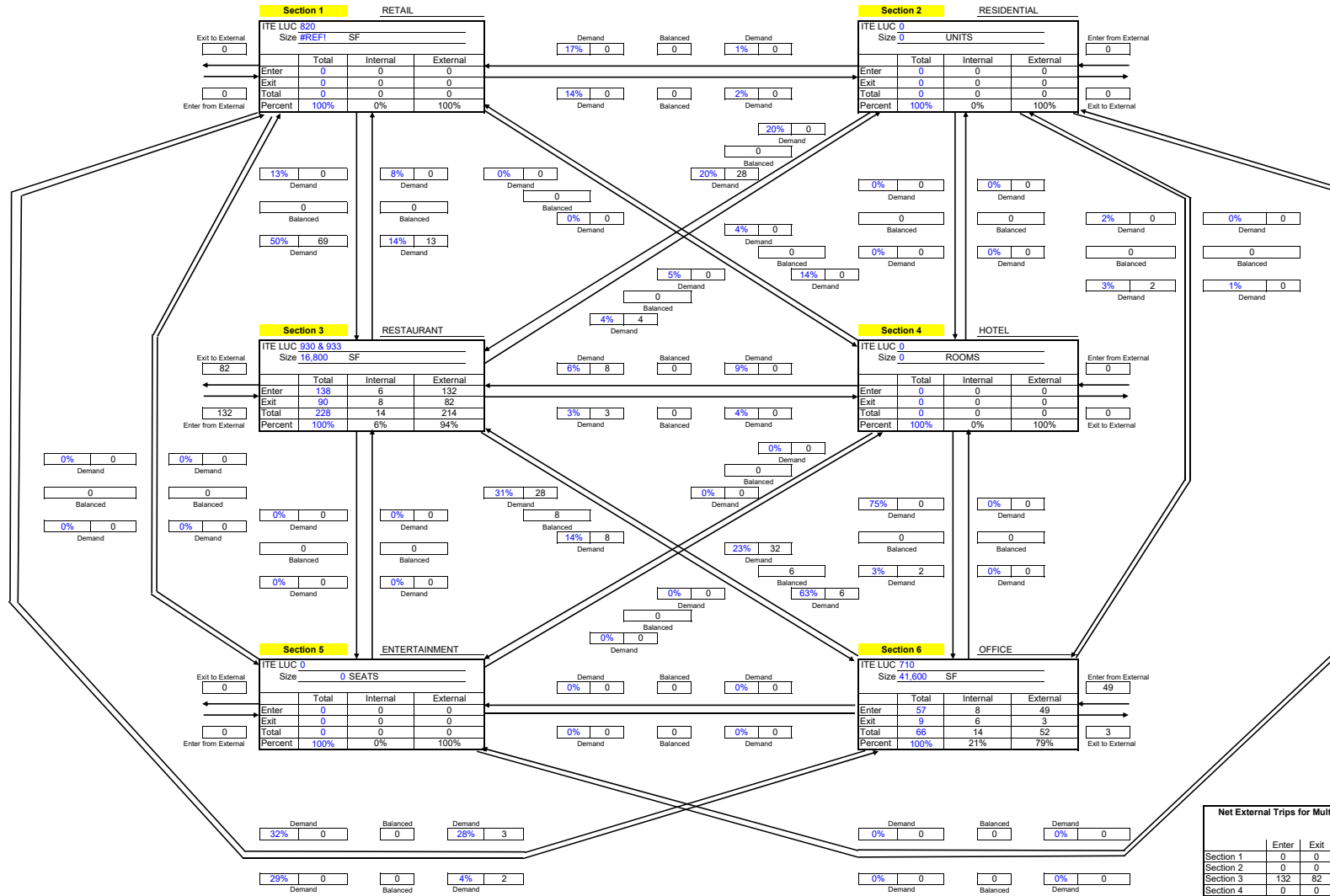


	Enter	Exit	Total	Single-Use Trip Gen Est.
Section 1	0	0	0	0
Section 2	0	0	0	0
Section 3	2,769	2,710	5,479	5,556
Section 4	0	0	0	0
Section 5	0	0	0	0
Section 6	159	218	377	454
<b>TOTAL</b>	<b>2,928</b>	<b>2,928</b>	<b>5,856</b>	<b>6,010</b>
				<b>3%</b>

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.



**MULTI-USE DEVELOPMENT  
 TRIP GENERATION  
 AND INTERNAL CAPTURE SUMMARY**

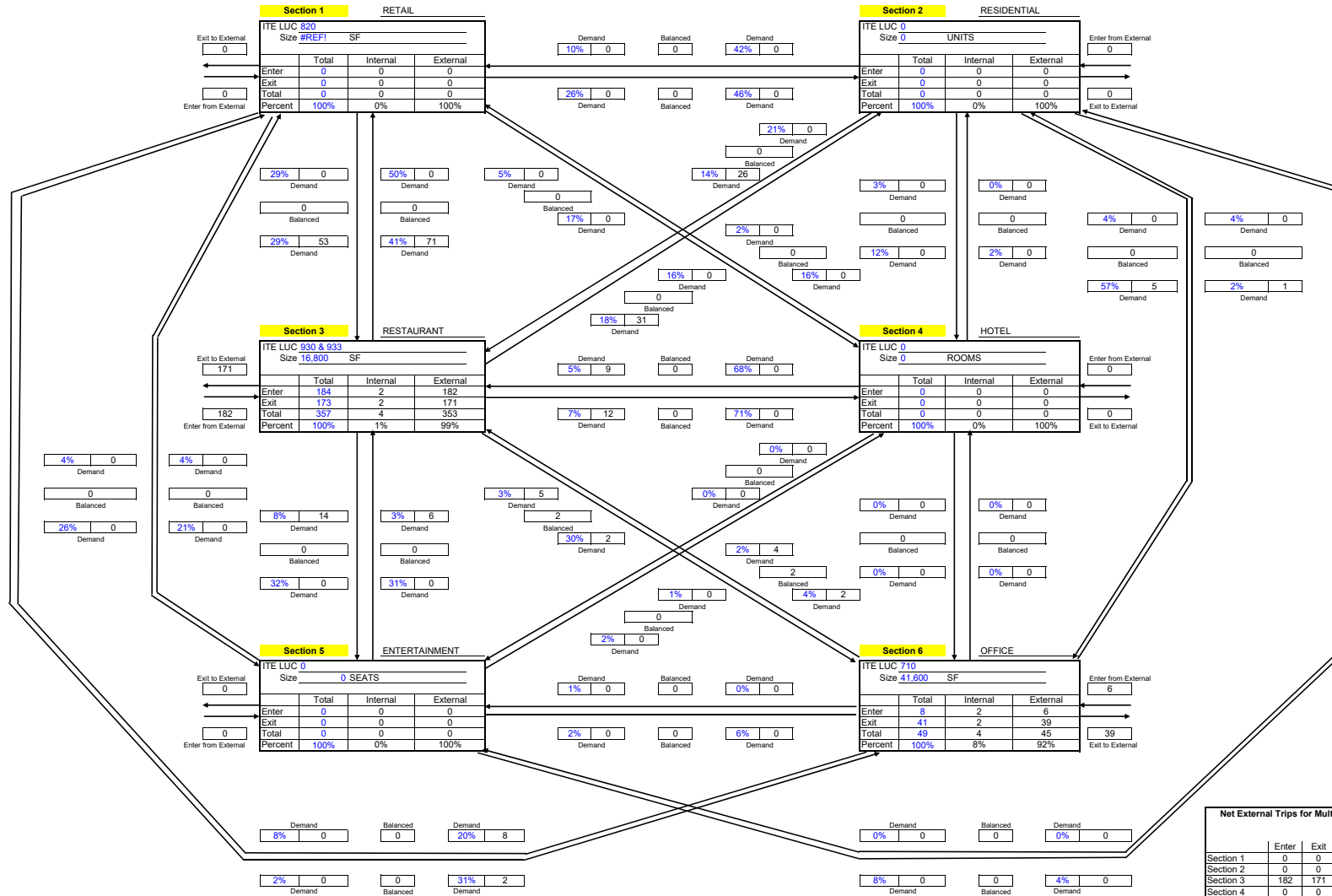


	Enter	Exit	Total	Single-Use Trip Gen Est.	Internal Capture
Section 1	0	0	0	0	
Section 2	0	0	0	0	
Section 3	132	82	214	228	
Section 4	0	0	0	0	
Section 5	0	0	0	0	
Section 6	49	3	52	66	
<b>TOTAL</b>	<b>181</b>	<b>85</b>	<b>266</b>	<b>294</b>	<b>10%</b>

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



**MULTI-USE DEVELOPMENT  
TRIP GENERATION  
AND INTERNAL CAPTURE SUMMARY**

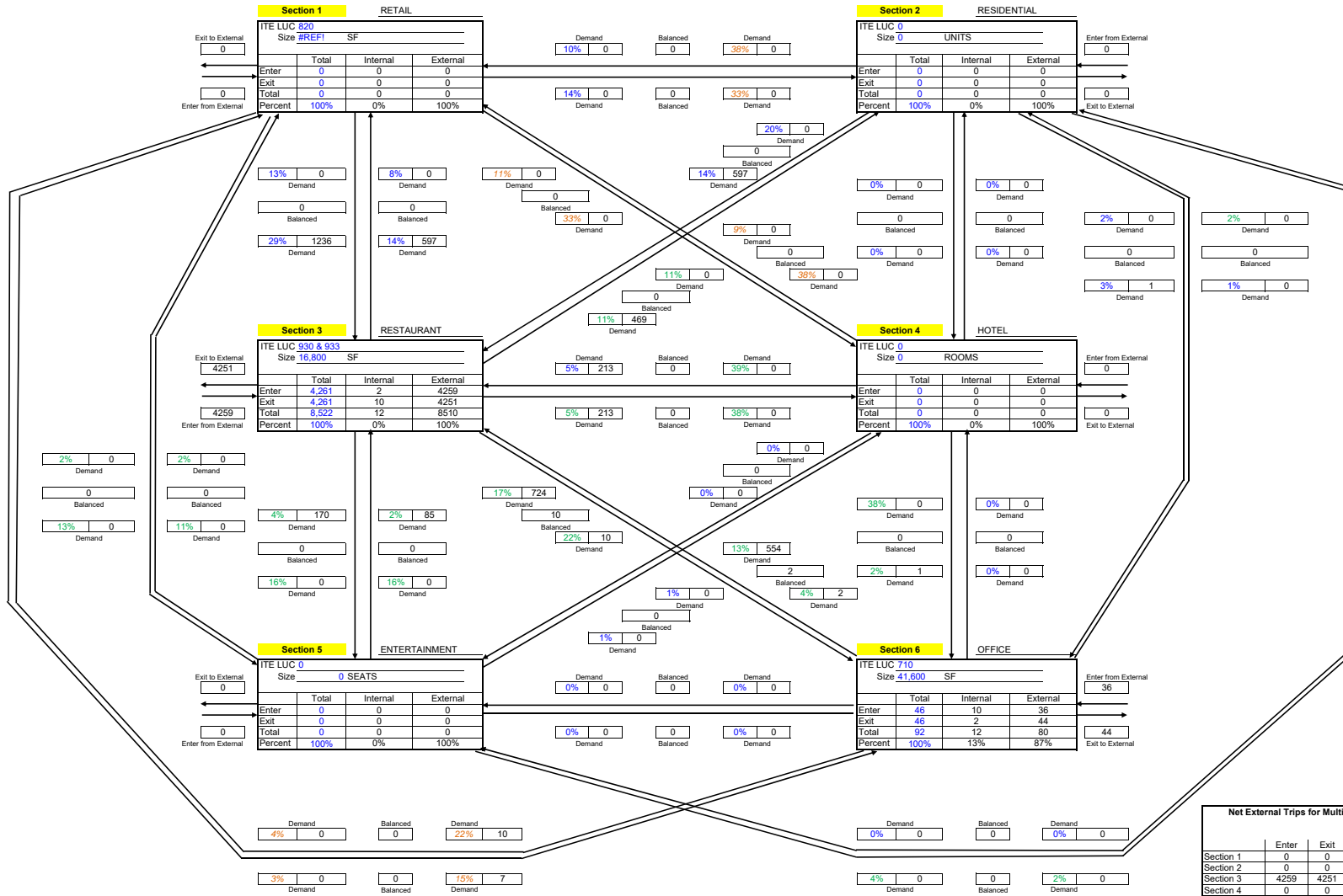


	Enter	Exit	Total	Single-Use Trip Gen Est.	Internal Capture
Section 1	0	0	0	0	
Section 2	0	0	0	0	
Section 3	182	171	353	357	
Section 4	0	0	0	0	
Section 5	0	0	0	0	
Section 6	6	39	45	49	
<b>TOTAL</b>	<b>188</b>	<b>210</b>	<b>398</b>	<b>406</b>	<b>2%</b>

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



**MULTI-USE DEVELOPMENT  
TRIP GENERATION  
AND INTERNAL CAPTURE SUMMARY**

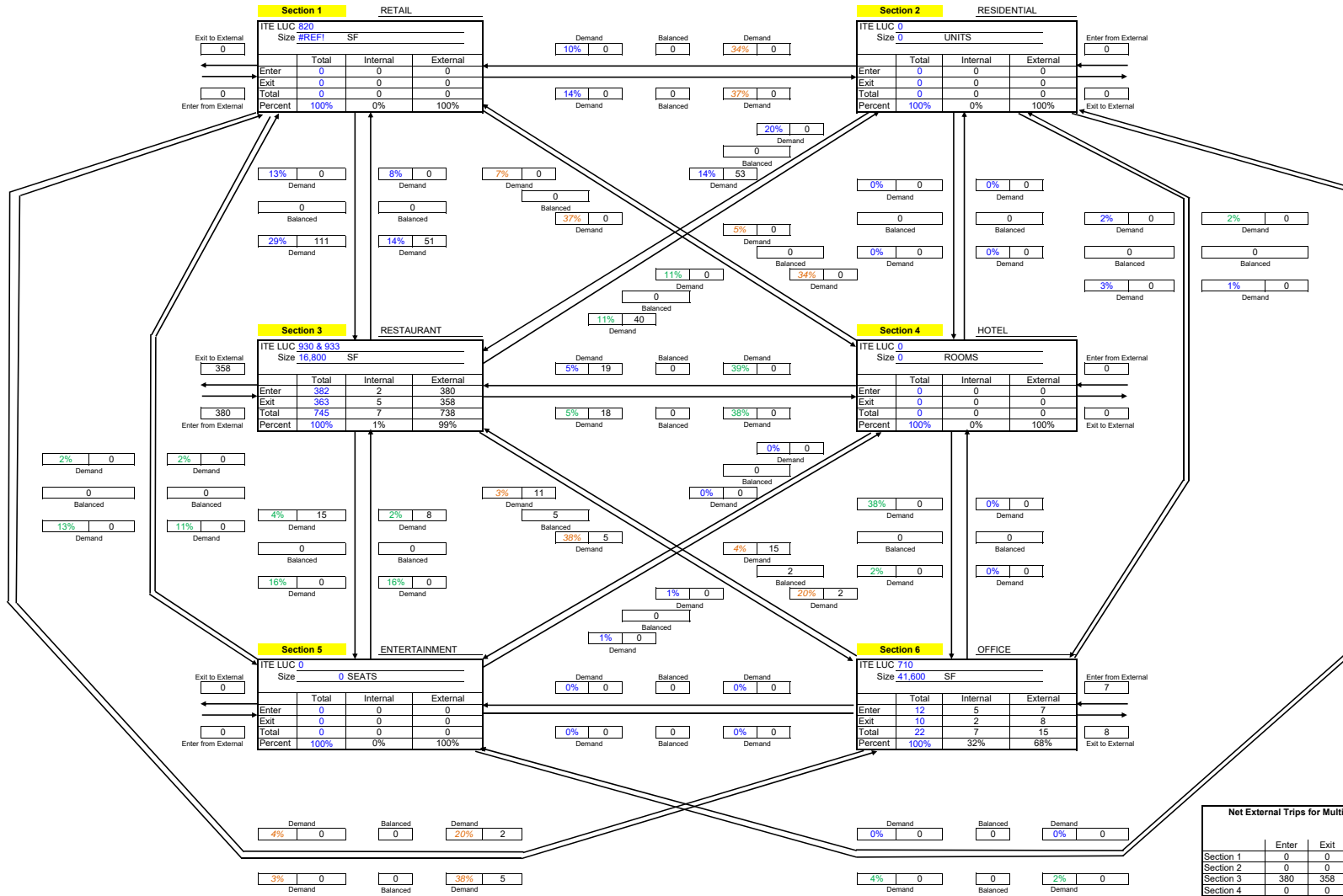


	Enter	Exit	Total	Single-Use Trip Gen Est.
Section 1	0	0	0	0
Section 2	0	0	0	0
Section 3	4259	4251	8510	8522
Section 4	0	0	0	0
Section 5	0	0	0	0
Section 6	36	44	80	92
<b>TOTAL</b>	<b>4295</b>	<b>4295</b>	<b>8590</b>	<b>8614</b>
				<b>0%</b> Internal Capture

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.



**MULTI-USE DEVELOPMENT  
 TRIP GENERATION  
 AND INTERNAL CAPTURE SUMMARY**



	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
<b>TOTAL</b>	<b>387</b>	<b>366</b>	<b>753</b>	<b>767</b>

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, 2nd Edition, June 2004.





ARIZON NEW MEXICO

OKLAHOMA

ARKANSAS

TENNESSEE

NORTH CAROLINA

SOUTH CAROLINA

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.

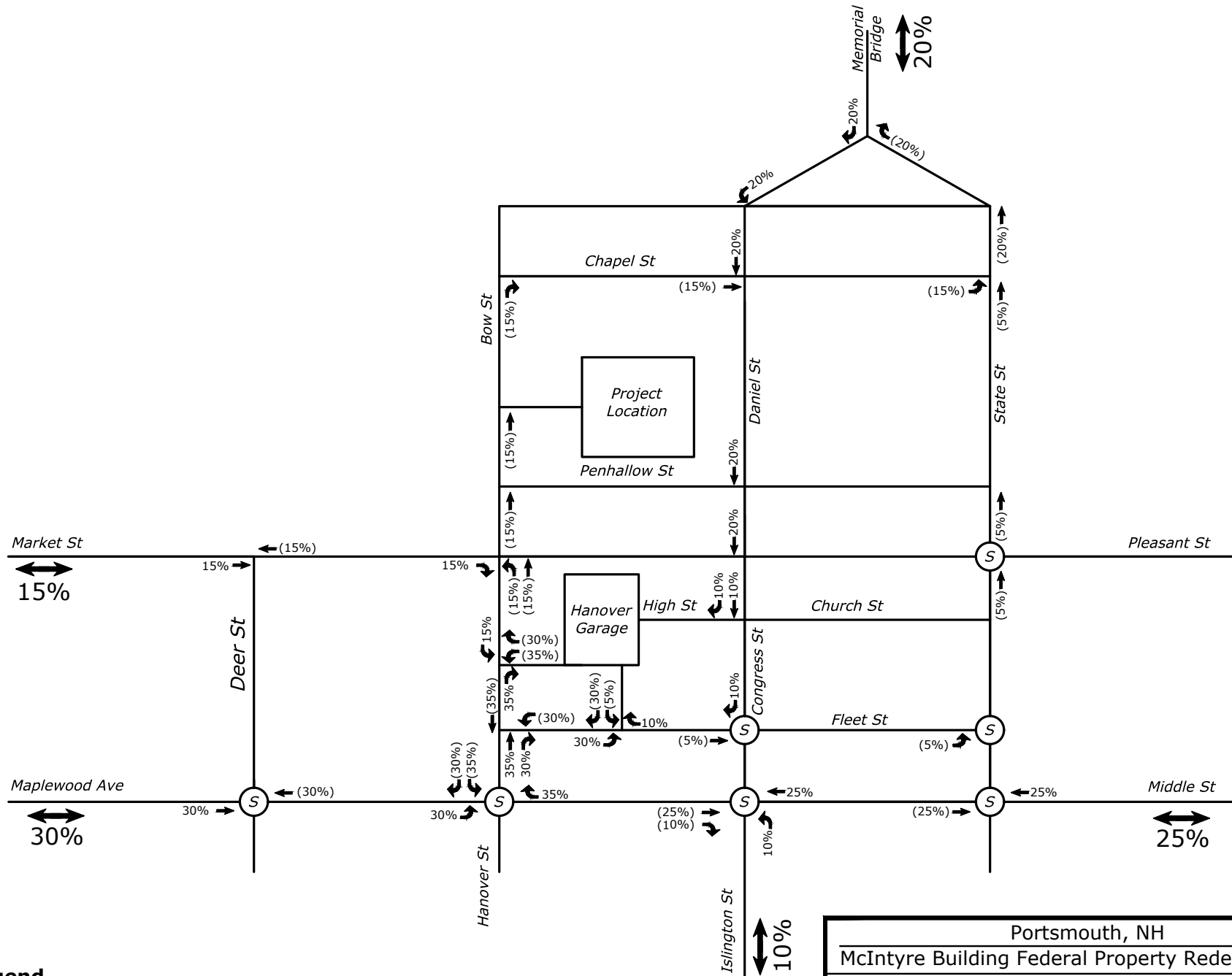
Estimates of urban and rural populations, housing units, and characteristics reflect boundaries of urban areas defined based on Census 2010 data. As a result, data for urban and rural areas from the ACS do not necessarily reflect the results of ongoing urbanization.

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.



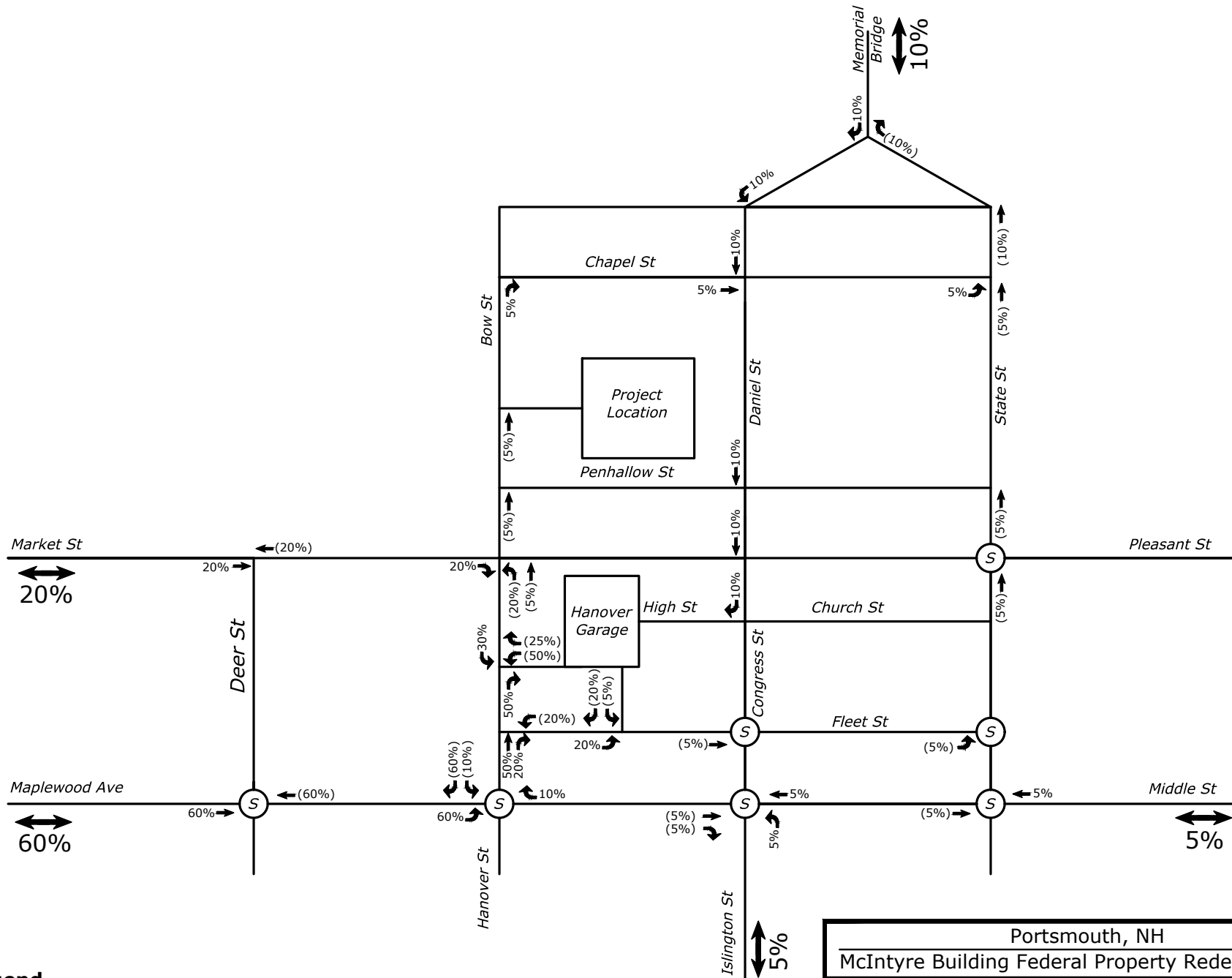


**Legend**

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


Portsmouth, NH	
McIntyre Building Federal Property Redevelopment	
Retail Trip Distribution	
DATE 10/17/2019	 <a href="http://www.tighebond.com">www.tighebond.com</a>
FIGURE 3	





**Legend**

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

Portsmouth, NH	
McIntyre Building Federal Property Redevelopment	
Office Trip Distribution	
DATE 10/17/2019	 <a href="http://www.tighebond.com">www.tighebond.com</a>
FIGURE 5	



## Critical Peak Hour Traffic Volume Comparison - Weekday PM versus Saturday Midday

Based on NHDOT Count Station Data

Location ID	Location	Date	Volume		Site Gen Trips		Sum		% Difference	
			PM	SAT	PM	SAT	PM	SAT	PM	SAT
82379035	Maplewood Avenue east of Raynes Avenue	11/3/2011	987		61		1048		5%	
		11/5/2011		865		128		993		-6%
82379081	Market Street west of Hanover Street	7/14/2011	1036		32		1068		12%	
		7/16/2011		875		63		938		-14%
82379079	US 1 (Memorial Bridge) at Maine State Line	4/27/2017	1232		28		1260		-1%	
		4/29/2017		1202		69		1271		1%
82379044	Islington Street east of Summer Street	8/30/2012	841		12		853		7%	
		8/25/2012		753		40		793		-8%
82379076	US 1 (Middle Road) north of Richards Avenue)	7/28/2011	957		34		991		-10%	
		7/30/2011		992		100		1092		9%
82379084	Congress Street east of Mapplewood Avenue	7/21/2011	548		27		575		8%	
		7/23/2011		506		21		527		-9%
<b>TOTAL NETWORK VOLUME</b>			<b>5601</b>		<b>194</b>		<b>5795</b>		<b>3%</b>	
				<b>5193</b>		<b>421</b>		<b>5614</b>		<b>-3%</b>



**Critical Peak Hour Volume Comparison - Weekday PM versus Saturday Midday**  
**Based on City of Portsmouth TMC Data**

Location ID	Location	Date	Existing Volume		Site Gen Trips		Build Trips		Difference		% Difference	
			PM	SAT	PM	SAT	PM	SAT	PM	SAT	PM	SAT
695168	Maplewood Avenue / Congress Street / Islington Street / Middle Street	9/13/2019	1442		66		1508		-26		-2%	
		9/14/2019		1387		147		1534		26		2%
693453	Maplewood Avenue / Deer Street	9/10/2019	1611		61		1672		379		23%	
		9/7/2019		1165		128		1293		-379		-29%
698419	Maplewood Avenue / Hanover Street	9/10/2019	1371		100		1471		-29		-2%	
		9/21/2019		1255		245		1500		29		2%
82379044	State Street / Middle Street	9/12/2019	1158		38		1196		15		1%	
		9/14/2019		1077		104		1181		-15		-1%
<b>TOTAL NETWORK VOLUME</b>			<b>5582</b>		<b>265</b>		<b>5847</b>		<b>339</b>		<b>6%</b>	
				<b>4884</b>		<b>624</b>		<b>5508</b>		<b>-339</b>		<b>-6%</b>



	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



	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



	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



	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



1	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
	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		JSA-PETERSEN-JMLD
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



	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	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	N/A	16	3,000	80	120/277	0-10V	1%		WHITE/WHITE	NO	2	GARAGE		JSA-PETERSEN-JMLD



	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	5 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		



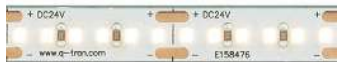
# SW24/4.0

## STRIP - STATIC WHITE

# TYPE JAAS-33

## or 42

### PILLARS



V/WATTS	RATED	CCT - LUMENS/CRI	<sup>2</sup> CONNECTOR/ WIRE IN	<sup>2</sup> CONNECTOR/ WIRE OUT	ILLUMINATED LENGTH (IN)
<b>SW24/4.0</b> Voltage: 24 VDC Wattage: 4.0 W/ft	WET	30	BW	BW	33 or 42
	DRY	<b>20</b> - 2000K 309/93 <b>22</b> - 2200K 314/96 <b>24</b> - 2400K 306/95 <b>27</b> - 2700K 349/98 <b>30</b> - 3000K 373/98 <b>35</b> - 3500K 389/98 <b>40</b> - 4000K 369/96	<sup>1</sup> BW BRL CLS	CLS <sup>1</sup> BW BRL	<b>1"-288"</b> OR <sup>2</sup> MATCH 1" increments Matches EXT length ordered
	DMP	<b>24</b> - 2400K 284/94 <b>27</b> - 2700K 276/97 <b>30</b> - 3000K ***/** <b>35</b> - 3500K ***/** <b>40</b> - 4000K 324/95	<sup>1</sup> BW BRL	CLS <sup>1</sup> BW BRL	<b>1"-180"</b> OR <sup>2</sup> MATCH 1" increments Matches EXT length ordered
	<sup>3</sup> ENC	<b>20</b> - 2000K 260/94 <b>22</b> - 2200K ***/** <b>24</b> - 2400K 282/96 <b>27</b> - 2700K 285/95 <b>30</b> - 3000K 299/96 <b>35</b> - 3500K 323/96 <b>40</b> - 4000K 337/96	<sup>1</sup> BW BRL	CLS <sup>1</sup> BW BRL	<b>1"-288"</b> OR <sup>2</sup> MATCH 1" increments Matches EXT length ordered
	WET	<b>20</b> - 2000K 260/94 <b>22</b> - 2200K ***/** <b>24</b> - 2400K 282/96 <b>27</b> - 2700K 285/95 <b>30</b> - 3000K 299/96 <b>35</b> - 3500K 323/96 <b>40</b> - 4000K 337/96	<sup>1</sup> BW BRL	CLS <sup>1</sup> BW BRL	<b>1"-288"</b> OR <sup>2</sup> MATCH 1" increments Matches EXT length ordered

ENC RATED STRIP ARE NOT FIELD CUTTABLE

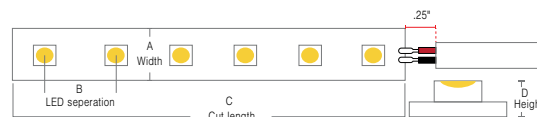
- NOTES:**
- Field modifications must comply with Q-Tran's installation methods otherwise warranty is null and void
  - All data has +/- 5% tolerance
  - 5 year warranty
  - NRTL Listed for install in Storage Areas with Clothing, NEC Field 410.2 and 410.16 when assembled as a fixture, at Q-Tran facility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

<sup>1</sup> BW	BRL	CLS
Bare Wire 24"	Male Barrel 6"	Not soldered DRY ONLY

### CONNECTOR/WIRE OUT

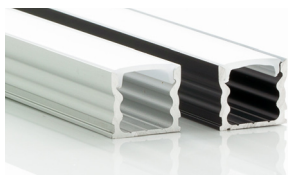
<sup>1</sup> BW	BRL	CLS
Bare Wire 24"	Female Barrel 6"	Not soldered

### COMPATIBLE EXTRUSIONS

SLIM	WIDE	ROND	VEGA	TORQ	TRE3	ARKA	TELA	VEVE	FLUR	LATO	MDIN
<input checked="" type="checkbox"/> DRY	<input checked="" type="checkbox"/> DRY	<input checked="" type="checkbox"/> DRY	<input checked="" type="checkbox"/> DRY	<input checked="" type="checkbox"/> DRY	<input checked="" type="checkbox"/> DRY	<input checked="" type="checkbox"/> DRY	<input checked="" type="checkbox"/> DRY	<input checked="" type="checkbox"/> DRY	<input checked="" type="checkbox"/> DRY	<input checked="" type="checkbox"/> DRY	<input type="checkbox"/> DRY
<input checked="" type="checkbox"/> DMP	<input checked="" type="checkbox"/> DMP	<input checked="" type="checkbox"/> DMP	<input checked="" type="checkbox"/> DMP	<input checked="" type="checkbox"/> DMP	<input checked="" type="checkbox"/> DMP	<input checked="" type="checkbox"/> DMP	<input checked="" type="checkbox"/> DMP	<input checked="" type="checkbox"/> DMP	<input checked="" type="checkbox"/> DMP	<input checked="" type="checkbox"/> DMP	<input type="checkbox"/> DMP
<input checked="" type="checkbox"/> ENC	<input type="checkbox"/> ENC	<input checked="" type="checkbox"/> ENC	<input type="checkbox"/> ENC	<input checked="" type="checkbox"/> ENC	<input type="checkbox"/> ENC	<input type="checkbox"/> ENC	<input type="checkbox"/> ENC	<input checked="" type="checkbox"/> ENC	<input checked="" type="checkbox"/> ENC	<input checked="" type="checkbox"/> ENC	<input type="checkbox"/> ENC
<input checked="" type="checkbox"/> WET - No Lens	<input checked="" type="checkbox"/> WET	<input type="checkbox"/> WET	<input type="checkbox"/> WET	<input checked="" type="checkbox"/> WET	<input checked="" type="checkbox"/> WET	<input checked="" type="checkbox"/> WET	<input checked="" type="checkbox"/> WET	<input checked="" type="checkbox"/> WET	<input checked="" type="checkbox"/> WET	<input checked="" type="checkbox"/> WET	<input type="checkbox"/> WET

PROJECT NAME	DATE	COMPANY	TYPE	NOTE



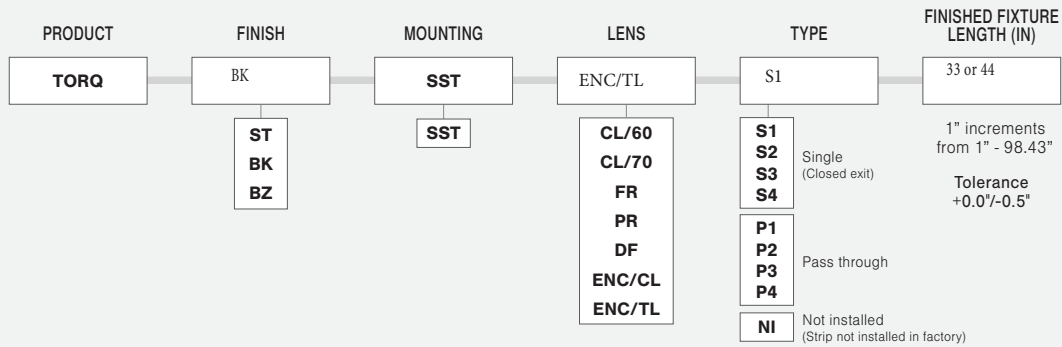


# TORQ EXTRUSIONS - ALUMINUM

Model: iQA

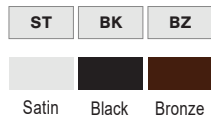


## TYPE JAAS-33 or 44



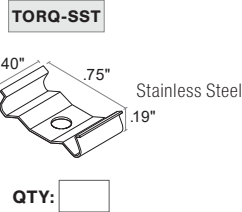
- NOTES:**
- UL Listed when assembled with STRIP LEDs at Q-Tran
  - NRTL Listed for install in Storage Areas with Clothing, NEC Field 410.2 and 410.16 when assembled as a fixture, with 4.0 w/ft or less, at Q-Tran facility (Not applicable for encapsulation)
  - Field modifications must comply with Q-Tran's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

### FINISH

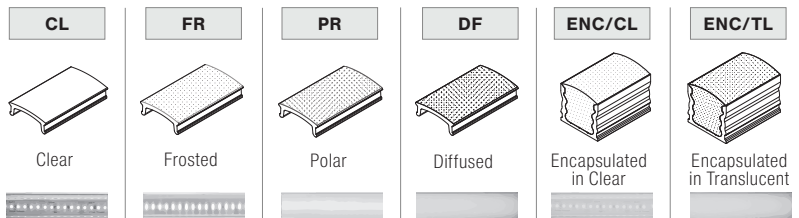


### MOUNTING

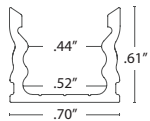
NOTE: 2 clips provided for 4' or less;  
4 clips provided for greater than 4'



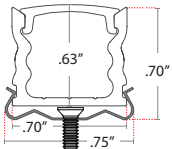
### LENS with LED visibility



### DIMENSIONS



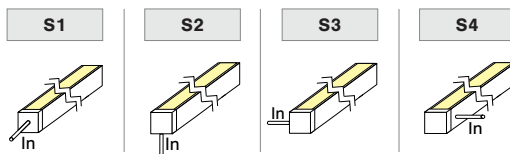
Profile



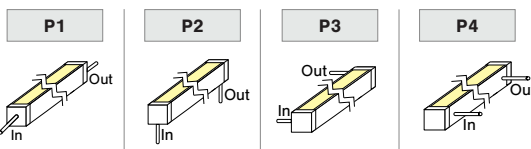
Profile with Stainless Steel Mounting Clip

### TYPE

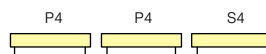
SINGLE (Input only)



PASS THROUGH (Input/Output)



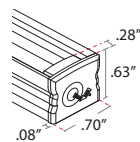
ORDER EXAMPLE



### END CAPS

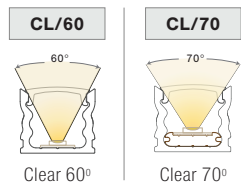


QTY:

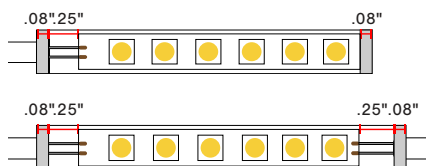


Endcap

### CUT OFF



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



Endcap#1  
Endcap#2  
Space to solder wire

$$S1 \text{ } .08" + .08" + .25" = .41"$$

$$P1 \text{ } .08" + .08" + 2x(.25") = .66"$$

PROJECT NAME	DATE	COMPANY	TYPE	NOTE



# TYPE JBBS - UNDER BENCH & PODIUM

## KURV-SW FIXTURES - FLEXIBLE (Q-CAP)



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

ENCAPSULATED PRODUCTS ARE NOT FIELD CUTTABLE

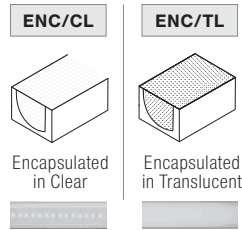
\*White Snug Clip included with Side Graze Channel

- NOTES:**
- Field modifications are not covered under Q-Tran warranty
  - Data subject to change, all data has +/- 5% tolerance
  - <sup>1</sup> 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)
  - <sup>2</sup> PPS mounting clip recommended for seamless applications

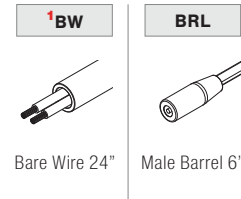
### OUTPUT Tested for KURV-SW-WSC-DRY [L70 = 40000 HRS]

CCT	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	
	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

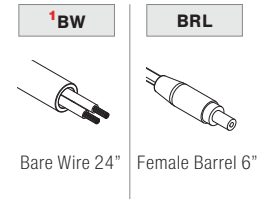
### LENS with LED visibility



### CONNECTOR/WIRE IN

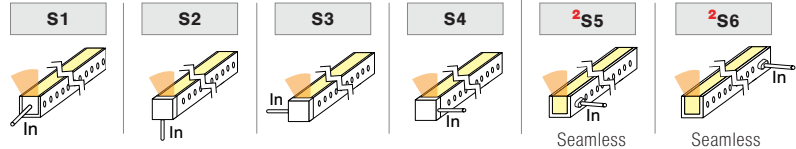


### CONNECTOR/WIRE OUT

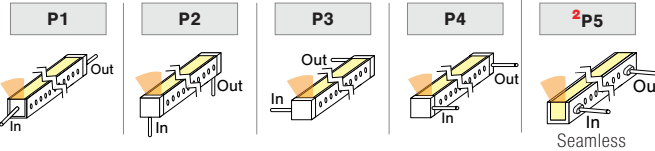


### TYPE

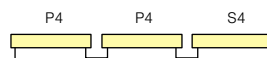
#### SINGLE (Input only)



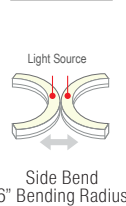
#### PASS THROUGH (Input/Output)



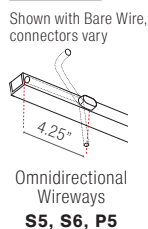
#### ORDER EXAMPLE



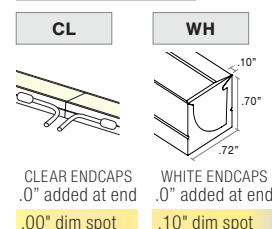
#### FLEXIBILITY



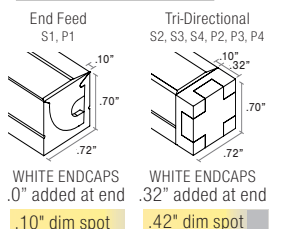
#### SEAMLESS



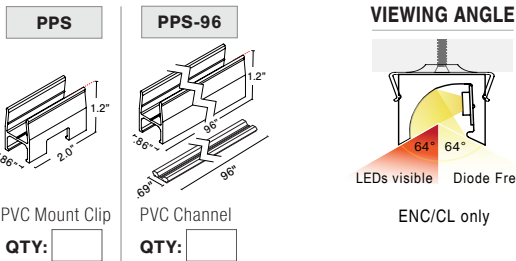
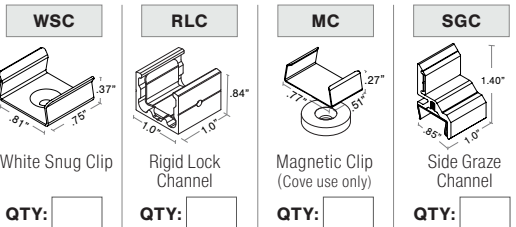
#### END CAPS (NO FEED)



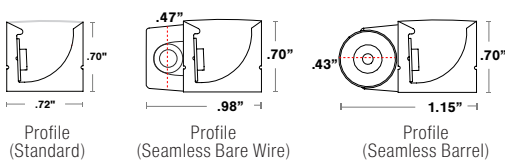
#### END CAPS (WITH FEED)



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



### DIMENSIONS



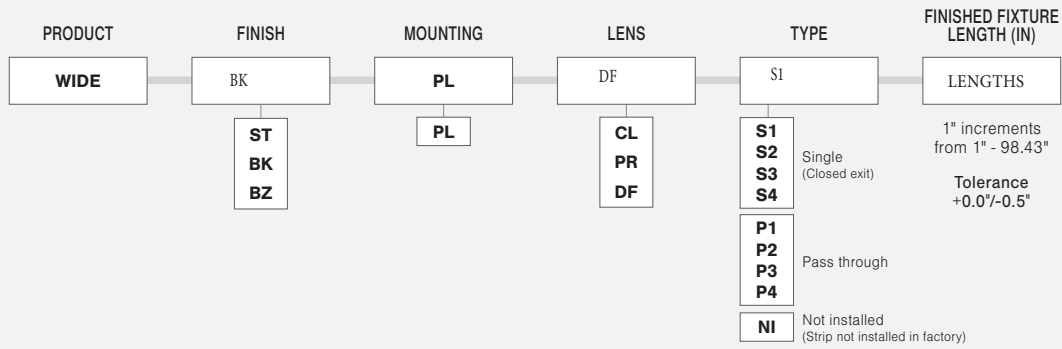
PROJECT NAME	DATE	COMPANY	TYPE	NOTE





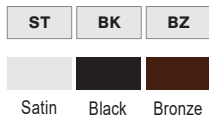
# WIDE EXTRUSIONS - ALUMINUM

Model: iQA



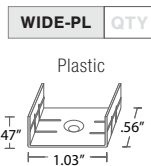
- NOTES:**
- UL Listed when assembled with STRIP LEDs at Q-Tran
  - NRTL Listed for install in Storage Areas with Clothing, NEC Field 410.2 and 410.16 when assembled as a fixture, with 4.0 w/ft or less, at Q-Tran facility (Not applicable for encapsulation)
  - Field modifications must comply with Q-Tran's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

## FINISH

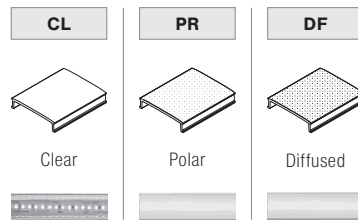


## MOUNTING

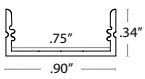
NOTE: 2 clips provided for 4' or less; 4 clips provided for greater than 4'



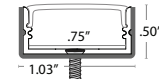
## LENS with LED visibility



## DIMENSIONS



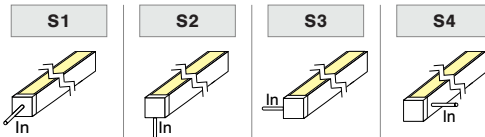
Profile



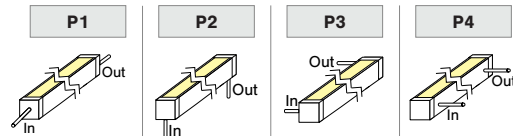
Profile with Plastic Mounting Clip

## TYPE

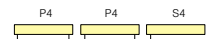
SINGLE (Input only)



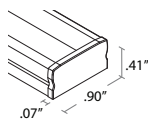
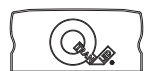
PASS THROUGH (Input/Output)



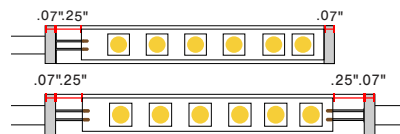
ORDER EXAMPLE



## END CAPS



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



Endcap#1      Endcap#2  
Space to solder wire

$$S1 \quad .07'' + .07'' + .25'' = .39''$$

$$P1 \quad .07'' + .07'' + 2(.25'') = .64''$$

## CUT OFF



Clear 97°

## COMPATIBLE 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	ENC	DRY	DMP	WET	ENC	
✓	✓	✓	✗	✓	✓	✓	✗	✓	✓	✓	✗	✓	✗	✓	✗	✓	✓	✓	✗

✓ = Compatible  
✗ = NOT Compatible

PROJECT NAME	DATE	COMPANY	TYPE	NOTE



# RGBW24/6.0

# TYPE JCCS-LENGTHS

## STRIP - DYNAMIC COLOR



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

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
  - Consent factory for alternate Kelvin temperature
  - <sup>1</sup> 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)
  - <sup>2</sup> 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

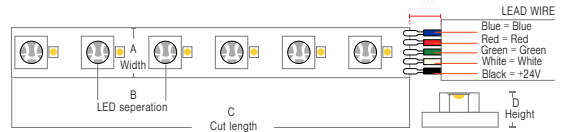
### TECHNICAL INFORMATION [L70 = 30000 HRS]

\*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

<sup>1</sup>BW

Bare Wire 24"

CLS

Not soldered  
DRY ONLY

### CONNECTOR/WIRE OUT

<sup>1</sup>BW

Bare Wire 24"

CLS

Not soldered

### COMPATIBLE EXTRUSIONS

SLIM	WIDE	ROND	VEGA	TORQ	TRE3	ARKA	TELA	VEVE	FLUR	LATO	MDIN
<input type="checkbox"/> DRY	<input checked="" type="checkbox"/> DRY	<input type="checkbox"/> DRY	<input type="checkbox"/> DRY	<input type="checkbox"/> DRY	<input checked="" type="checkbox"/> DRY	<input checked="" type="checkbox"/> DRY	<input checked="" type="checkbox"/> DRY	<input checked="" type="checkbox"/> DRY	<input type="checkbox"/> DRY	<input type="checkbox"/> DRY	<input type="checkbox"/> DRY
<input type="checkbox"/> DMP	<input checked="" type="checkbox"/> DMP	<input type="checkbox"/> DMP	<input type="checkbox"/> DMP	<input type="checkbox"/> DMP	<input checked="" type="checkbox"/> DMP	<input checked="" type="checkbox"/> DMP	<input checked="" type="checkbox"/> DMP	<input checked="" type="checkbox"/> DMP	<input type="checkbox"/> DMP	<input type="checkbox"/> DMP	<input type="checkbox"/> DMP
<input type="checkbox"/> ENC	<input type="checkbox"/> ENC	<input type="checkbox"/> ENC	<input type="checkbox"/> ENC	<input type="checkbox"/> ENC	<input type="checkbox"/> ENC	<input type="checkbox"/> ENC	<input type="checkbox"/> ENC	<input type="checkbox"/> ENC	<input type="checkbox"/> ENC	<input type="checkbox"/> ENC	<input type="checkbox"/> ENC
<input type="checkbox"/> WET	<input checked="" type="checkbox"/> WET	<input type="checkbox"/> WET	<input type="checkbox"/> WET	<input type="checkbox"/> WET	<input type="checkbox"/> WET	<input type="checkbox"/> WET	<input type="checkbox"/> WET	<input type="checkbox"/> WET	<input type="checkbox"/> WET	<input type="checkbox"/> WET	<input type="checkbox"/> WET

PROJECT NAME	DATE	COMPANY	TYPE	NOTE

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

Universal and Field Convertible - Trim | Trimless | Millwork

Trimmed - B4RCF



Trimless - B4RCL



Millwork - B4RCM



[usailighting.com/beveled](http://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](http://usailighting.com/B4RD)

Adjustable - B4RA  
[usailighting.com/B4RA](http://usailighting.com/B4RA)

Wall Wash - B4RW  
[usailighting.com/B4RW](http://usailighting.com/B4RW)

**DEEP REGRESS DOWNLIGHT PERFORMANCE DATA**

**LED COLOR CHOICES**

DELIVERED* PERFORMANCE:	Classic White						Warm Glow Dimming		Color Select	
	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 beamsread and color temperature. See IES files for exact values at [usailighting.com](http://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+	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

More Sizes and Shapes

Armstrong® Ceiling Solutions Compatible



Sloped Ceiling

BeveLED Block

Cylinders

BeveLED Micro

BeveLED Mini

BeveLED 5.0

Trimless Acoustical

Connect TechZone

BeveLED Connect



# BeveLED® 2.2 Complete

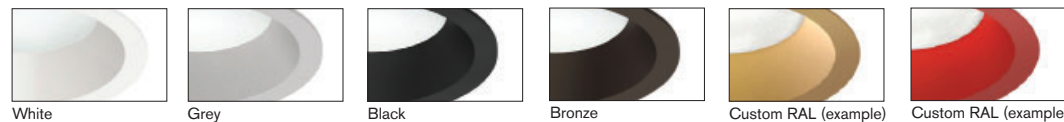
## 4.5" Round Deep Regress Downlight - B4RC

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

<b>B4RC</b>	<b>16C3</b>	<b>30KS</b>	<b>70</b>	<b>S</b>	<b>WH</b>	<b>WH</b>	<b>NCIC</b>	<b>UNV</b>	<b>D6E</b>		
BeveLED Trim Style	Wattage Options	LED Color Options	Beam Options	Lens Options	Bevel Trim Finish Options	*Flange/ Millwork Collar Finish	Housing Options	Voltage Options <i>Select one</i>	Dimming Driver Options	Accessories (Optional)*	
<b>F</b> Trimmed with Flange (use with all materials)  <b>L</b> Trimless Spackle-in (use with sheetrock and plaster only)  <b>M</b> Millwork Knife-Edge (use with wood and stone)	<b>Classic White Light</b>			<b>S</b> Solite (provided standard)  <b>SF</b> Solite Frosted  <b>BF</b> Borosilicate Frosted	<b>WH</b> White	<b>WH</b> White	<b>NCSM</b> New Construction Narrow Width  <b>NC</b> New Construction  <b>NCCP</b> Chicago Plenum  <b>NCIC</b> Insulation Contact Rated / Airtight (1)	<b>UNV</b> 120V-277V	<b>For use with Universal Voltage 120V - 277V</b>  <i>No Additional Charge</i> <b>D6E</b> EldoLED 0-10V, 1% (provided standard) <b>D6F</b> EldoLED 0-10V, 1%	<b>CB27</b> 27" C-Channel Bars  <b>CB32</b> 32" C-Channel Bars  <b>CB52</b> 52" C-Channel Bars  <b>EM</b> Emergency Battery (7)  <b>EMW</b> Emergency Battery Wet Location (7)  *Residential grade nailer bars provided standard	
	<b>09C3</b> 9W LED	<b>22KS (1)</b> 2200K, 80+ CRI	<b>25</b> 25° beam		<b>SC</b> Conduit Silver	<b>SC</b> Conduit Silver					<b>AC</b> Clear Matte Anodized  <b>WH</b> White  <b>GR</b> Grey  <b>BL</b> Black
	<b>12C3</b> 12W LED	<b>27KS</b> 2700K, 80+ CRI	<b>40</b> 40° beam		<b>GR</b> Grey	<b>GR</b> Grey					
	<b>16C3</b> 16W LED	<b>27KH</b> 2700K, 90+ CRI	<b>70</b> 70° beam		<b>BL</b> Black	<b>BL</b> Black					
	<b>24C3</b> 24W LED	<b>30KS</b> 3000K, 80+ CRI			<b>BZ</b> Bronze	<b>BZ</b> Bronze					
	<b>33C3</b> 33W LED	<b>30KH</b> 3000K, 90+ CRI			<b>PR</b> Primer Finish	<b>PR</b> Primer Finish					
	<b>36E1</b> 36W LED	<b>35KS</b> 3500K, 80+ CRI			<b>AB</b> Piano Gloss Black	<b>AB</b> Piano Gloss Black					
		<b>35KH</b> 3500K, 90+ CRI			<b>WH</b> White	<b>WH</b> White					
		<b>40KS</b> 4000K, 80+ CRI			<b>GR</b> Grey	<b>GR</b> Grey					
		<b>40KH</b> 4000K, 90+ CRI			<b>BL</b> Black	<b>BL</b> Black					
					<b>RAL</b> Custom Color Specify RAL #	<b>RAL</b> Custom Color Specify RAL #					
						*Leave blank for Trimless					
<b>Warm Glow Dimming</b>											
<b>16WG2</b> 16W LED	<b>2722KS</b> 2700K-2200K, 80+ CRI	<b>25</b> 25° beam									
<b>32WG2</b> 32W LED	<b>2722KH</b> 2700K-2200K, 90+ CRI	<b>40</b> 40° beam									
	<b>3022KS</b> 3000K-2200K, 80+ CRI	<b>65</b> 65° beam									
	<b>3022KH</b> 3000K-2200K, 90+ CRI										
	<b>3522KS</b> 3500K-2200K, 80+ CRI										
<b>Color Select Tunable White</b>											
<b>16CS1</b> 16W LED	<b>6022KS</b> 6000K-2200K, Tunable White Light 80+ CRI	<b>30</b> 30° beam									
<b>32CS1</b> 32W LED		<b>40</b> 40° beam									
		<b>50</b> 50° beam									

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



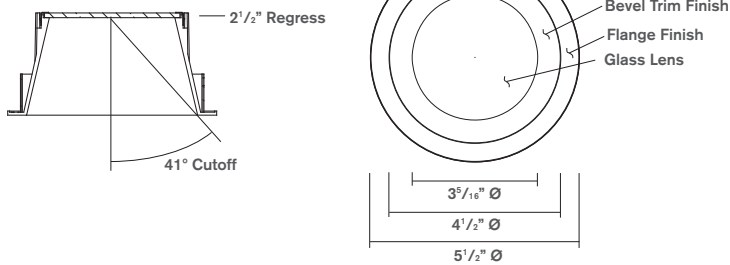
Custom colors and primer finish also available

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

## Trimmed - B4RCF

### TRIM DETAILS

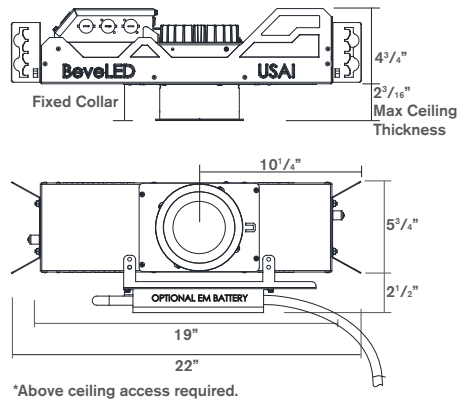
Trimmed - B4RCF



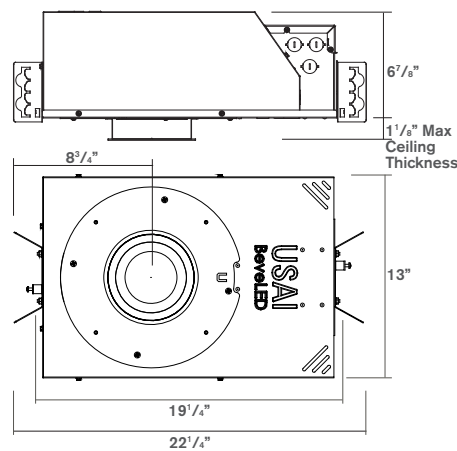
Clear acrylic overspray protector provided standard with every housing to keep out dust and contaminants during construction. Allows for use as work light.

### HOUSING OPTIONS

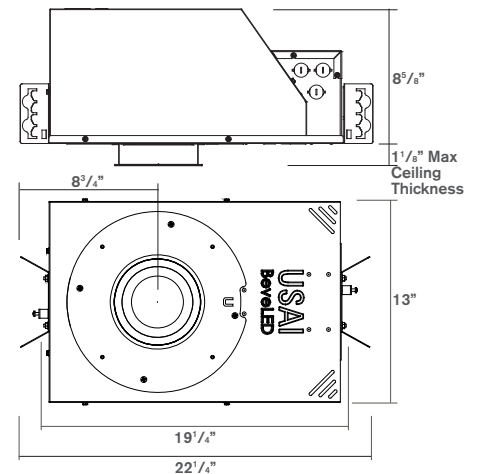
New Construction Narrow Width - NCSM  
NCSM with Emergency Battery\*



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



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





# BeveLED® 2.2 Complete

## 4.5" Round Deep Regress Downlight - B4RC

### BEVELED 2.2 SPECIFICATIONS

#### FIELD REPLACEABLE LED LIGHT ENGINE

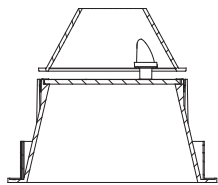
is serviceable through the aperture without tools or with a Philips screwdriver. All USAI Lighting light engines feature industry-leading color consistency.

#### FIELD REPLACEABLE DRIVER

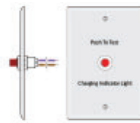
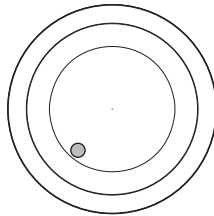
Unless otherwise specified, a 0-10V, 100%-1% solid state electronic constant current integral D6E dimming driver with a high power factor is provided standard and sources 2mA. All integral dimming drivers are located within the fixture housing and are serviceable from below the ceiling through the aperture. 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" Ø  
B4RCL Trimless Spackle-in: 5-1/2" Ø  
B4RCM Millwork Knife-edge: 4-15/16" Ø

#### 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.

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

## 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 patented 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.





### 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*
			DIML6A	6E	
<b>120V &amp; 277V</b>					
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	NFTV 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

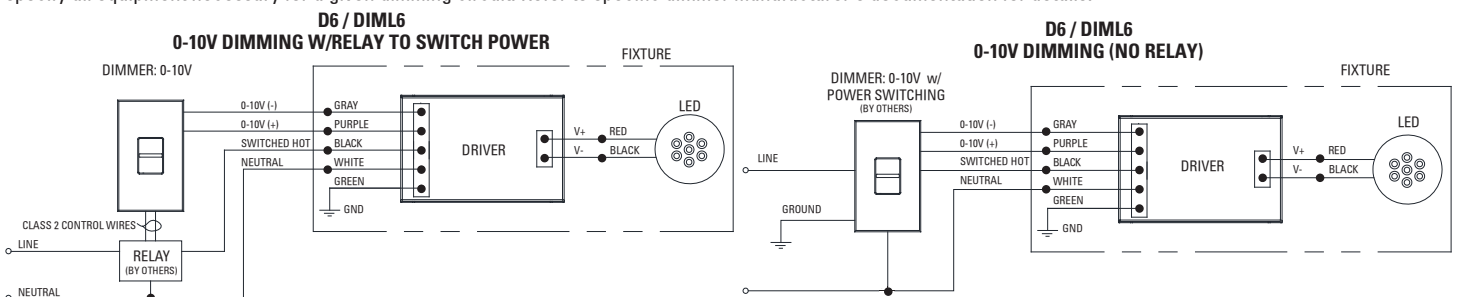
D6B / DIML6B and D6F / DIML6F are logarithmic-programmed dimming drivers for use with the dimming controls listed in the table below.

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*
			DIML6B	6F	
<b>120V &amp; 277V</b>					
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	Iluma 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:

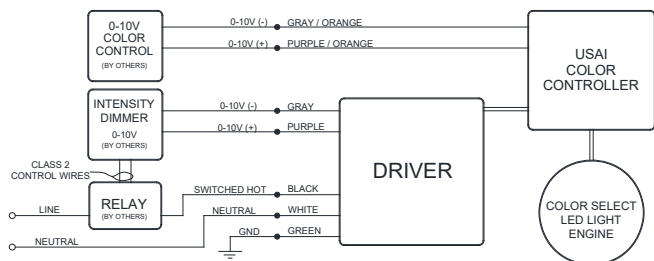
NOTES: Wiring diagrams are examples of typical installations intended to illustrate the number of wires that must be run to fixture. These diagrams are not intended to specify all equipment necessary for a given dimming circuit. Refer to specific dimmer manufacturer's documentation for details.



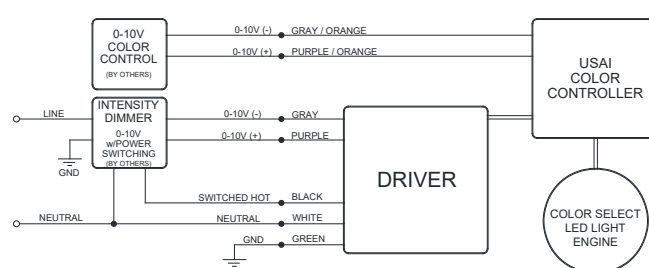
### INTENSITY DIMMING DRIVER WIRING SCHEMES:

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*
			DIML6A	6E	Refer to manufacturer's dimmer load rating for maximum and minimum fixture quantities per dimmer. Enlighted compatible.
<b>120V &amp; 277V</b>					
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*
			DIML6B	6F	Refer to manufacturer's dimmer load rating for maximum and minimum fixture quantities per dimmer. Enlighted compatible.
<b>120V &amp; 277V</b>					
Bush-Jaeger	Electronic potentiometer	2112U-101	100% - 0.1%	1%	
Jung	Electronic potentiometer	240-10	100% - 0.1%	1%	
Leviton	Iluma 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%	



## Tilting Eave 6w PURE LED

PROJECT:

TYPE:

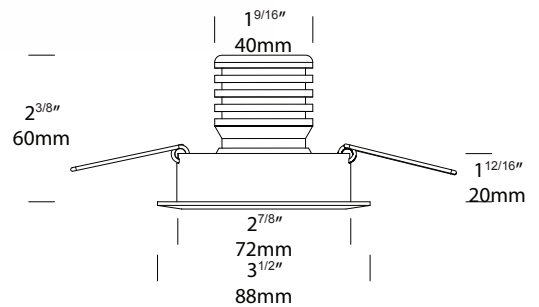
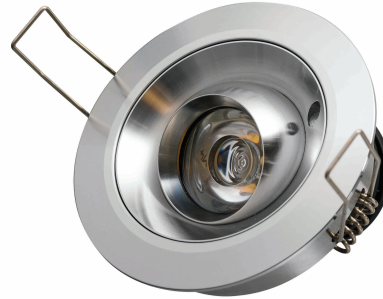
SOURCE:

NOTES:

### SPECIFICATIONS



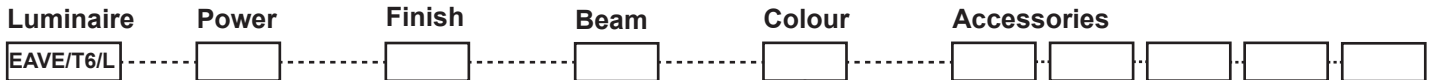
<b>LED Chip</b>	Cree XHP-50-2 Plug and Play field replaceable LED board
<b>Luminaire Output</b>	600 Lumens @ 1050mA (6 watts), 420 Lumens @ 700mA (4 watts), 240 Lumens @ 350mA (2 watts), delivered from luminaire with unobstructed beam.
<b>Lumens Per Watt</b>	100 Lumens @ 6 watts minimum, delivered from luminaire with unobstructed beam
<b>CRI (3000K)</b>	90+
<b>Colour Temperatures</b>	2700K, 3000K, 4000K
<b>Beam Angles</b>	15, 25, 38, 60
<b>Ingress Protection</b>	IP66
<b>Warranty</b>	Electronics = 5 years Flange Cop / SS = 10 years Body Aluminium = 5 years
<b>Standards</b>	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



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

- 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

- 15 15°
- 25 25°
- 38 38°
- 60 60°

- 2 2700K
- 3 3000K
- 4 4000K

- LF FROSTED LENS
- CJK CABLE JOINT KIT

**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

[Click here for 240v Remote Power Supply Guidance Charts](#)

[Click here for USA Remote Power Supply Guidance Charts](#)

# LUMINAIRE CONSTRUCTION

**CNC machined from one of the following metals:**

**Aluminium:**

Body: 45mm (1<sup>3/4</sup>" ) anodised aluminium  
 Flange: high corrosion resistant solid aluminium  
 88mm (3<sup>1/2</sup>" ) 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<sup>1/2</sup>" ) rod.

**316 Stainless Steel:**

Flange: 88mm (3<sup>1/2</sup>" ) 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:**

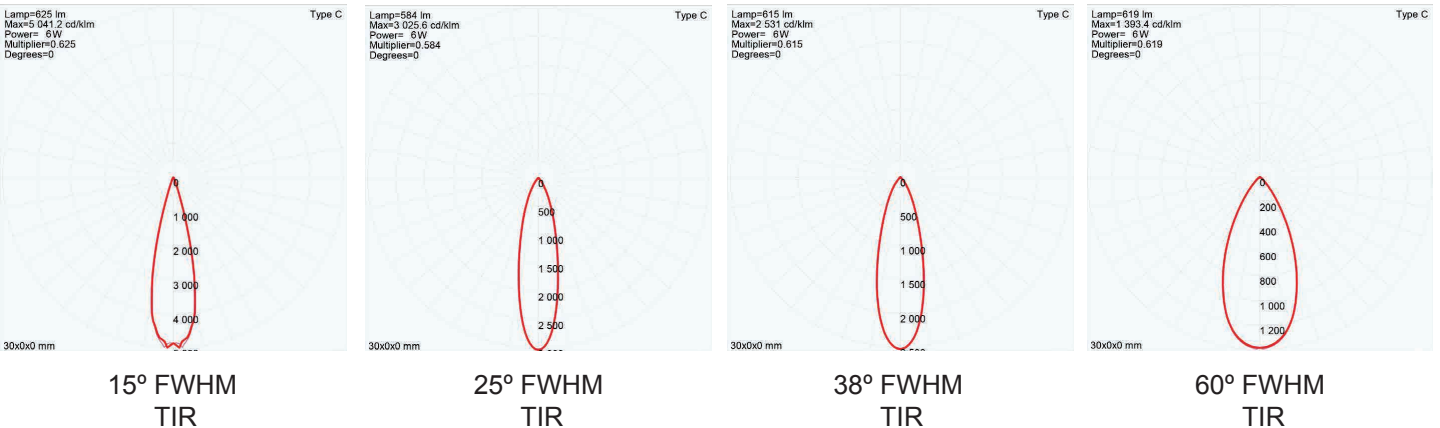
Low voltage  
 Alum: 0.300kg (11oz)  
 Cop: 0.800kg (1lb 12oz)  
 SS: 0.750kg (1lb 10oz)

## ACCESSORIES

## BEAM ANGLES

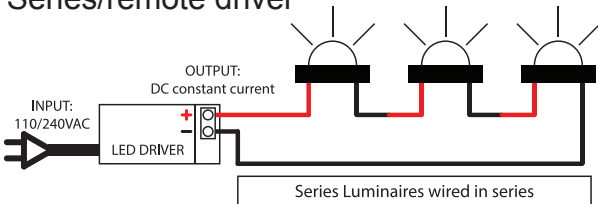
High efficiency PMMA TIR lenses. Field replaceable

IES files available for download: [hunzalighting.com/downloads](http://hunzalighting.com/downloads)



## WIRING GUIDE

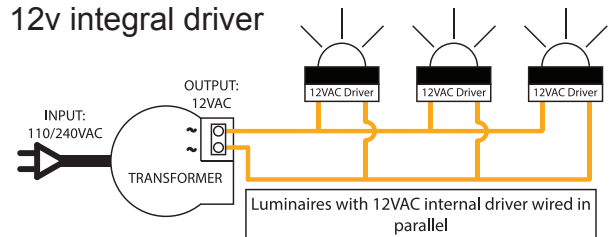
### Series/remote driver



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

### 12v integral driver

Available for download: [hunzalighting.com/downloads](http://hunzalighting.com/downloads)

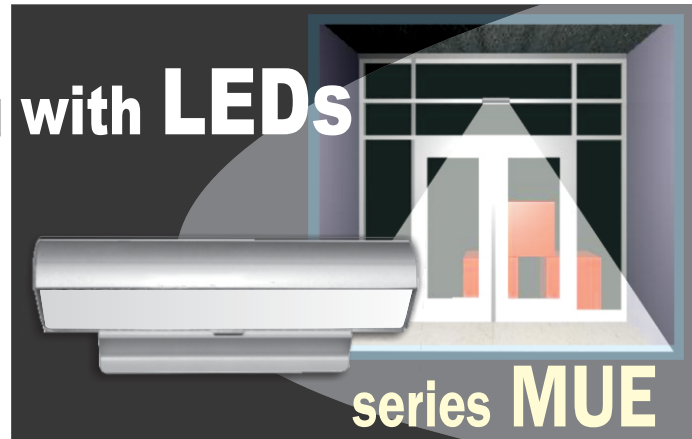


Specifications may change without notification

Aug 2017



# The Brightest Idea is Emergency Lighting with LEDs



**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**

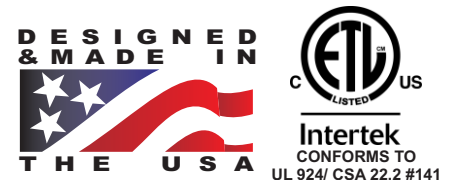
- Manufactured and tested to UL Standard 924 and NFPA Life Safety Code 101.

**WARRANTY**

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

**FIXTURE SCHEDULE**

<b>MODEL</b>	<b>CATALOG NO</b>
<b>APPROVAL</b>	<b>JOB INFORMATION</b>



# Moonlite LED®

## LED Outdoor Egress Emergency with Night Lighting Option

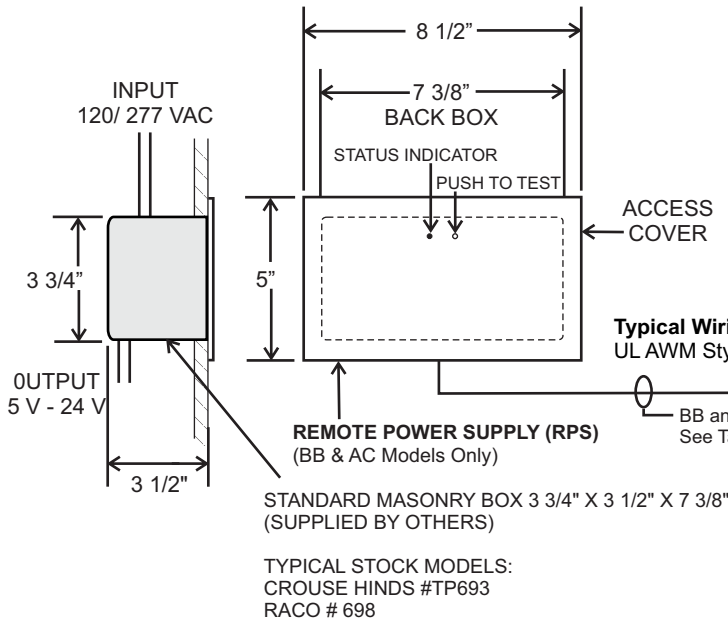
## Mullion Mount Emergency Light Series MUE

MUE.5.18.15

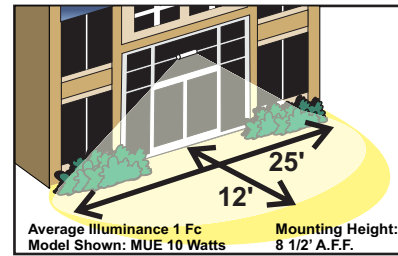
### SUGGESTED SPECIFICATIONS:

Supply and install the MOONLITE LED Series MUE Mullion Mount emergency lighting fixture manufactured by Sigtex 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 Sigtex remote power supply Series RPS, the Sigtex 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.

### MOUNTING DATA & DIMENSIONS:



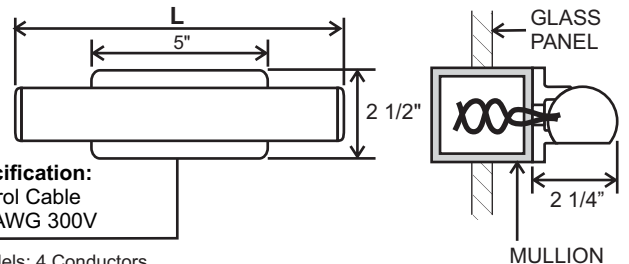
### SPACING GUIDE



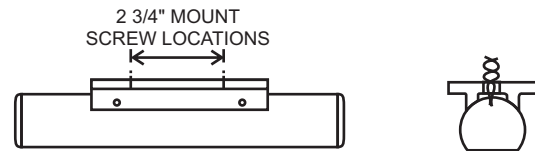
NOTE: FOR REFERENCE ONLY. STANDARD REFLECTANCES 80/50/20. SIGTEX IS NOT RESPONSIBLE FOR SPECIFIC CONDITIONS THAT MAY ALTER THE RESULTS.

CONTACT SIGTEX FOR LAYOUT ASSISTANCE  
Code Compliant Emergency lighting layouts provided free of charge!

### WALL MOUNT



### TOP MOUNT



**Typical Wiring Specification:**  
UL AWM Style: Control Cable  
#20 AWG 300V

BB and AC Models: 4 Conductors  
See Table 1

**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

### DISTRIBUTOR:

Specifications and Dimensions subject to change without notice.



**Sigtex Inc**  
LIGHTING

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