

K0076-065 April 23, 2025

Mr. Peter Britz, Director of Planning & Sustainability City of Portsmouth Planning & Sustainability Department 1 Junkins Avenue Portsmouth, New Hampshire 03801

Re: Request for Design Review Map 213 Lot 12 -Proposed Multi-Family Development

Dear Peter,

On behalf of Brora, LLC (owner) and The Kane Company (applicant) we are pleased to submit the following information to support a Request for Design Review with the Planning Board for the above-referenced project:

- One (1) full size & one (1) half size copy of the Site Plan Set, dated April 23, 2025;
- One (1) copy of the Planning Board Design Review Presentation Slides;
- One (1) copy of the Owner Authorization;

The proposed project is located on a parcel of land along Portsmouth Boulevard that is identified as Map 213 Lot 12 on the City of Portsmouth Tax Maps. The property is bound to the north by Portsmouth Boulevard, to the west by the Hilton Homewood Suites, to the south by residences on Osprey Drive and to the east by residences on Dunlin Way. The site is currently undeveloped. This property is an 8.4-acre parcel of land located in the Office Research District and the Gateway Neighborhood Overly District (GNOD). The northern portion of the parcel along Portsmouth Boulevard gently slopes up from north to south and then approximately one-third of the way into the parcel the topography changes to a steep slope that plateaus in the south corner of the site after grade change of approximately 50-feet in elevation.

The proposed project will be permitted under the recently adopted GNOD Overlay District regulations. As currently designed, the project will include three (3), six (6) story multifamily residential buildings consisting of approximately 274 dwelling units. With approval from the City Council, the Applicant will be proposing a Land Transfer to the City on separate property in order to achieve the Density Bonus offered by the Land Transfer Incentive Option (Section 10.686.30) and allow for six (6) story construction with up to 120 dwelling units per building.

The three (3) proposed buildings will be located along the frontage of Portsmouth Boulevard with associated parking located at the rear of buildings. Tenant amenity areas are anticipated to be provided on the first floor of the buildings with the primary amenities being centrally located in the middle building. The buildings will be connected by attractively landscaped and hardscaped outdoor amenity areas. The south portion of the site, where there is a significant change in grade, will remain undeveloped to provide a buffer between the proposed development and the existing residences along Osprey Drive. This south portion of the site is anticipated to be improved with walking paths and landscape features for outdoor recreation. The section of Portsmouth Boulevard along the frontage of the subject property is proposed to be reconstructed with a new sidewalk and parking spaces to promote connection between the development and the surrounding neighborhood.

The Applicant is seeking to meet with the Planning Board for Design Review. As such, the Applicant respectfully requests a vote from the Planning Board at the May 15, 2025 meeting to accept a request for Design Review such that a public hearing can be scheduled for the June 18, 2025 Planning Board meeting.

If you have any questions or need any additional information, please contact us by phone at (603) 433-8818 or by email at nahansen@tighebond.com.

Sincerely, TIGHE & BOND, INC.

Patrick M. Crimmins, PE Vice President

Neil A. Hansen, PE Project Manager

Copy: Brora, LLC (via email)

PROPOSED MULTI-FAMILY DEVELOPMENT DUNLIN WAY & PORTSMOUTH BOULEVARD PORTSMOUTH, NEW HAMPSHIRE APRIL 23, 2025

| SHEET NO. | SHEET TITLE | LAST REVISED |
|-----------|--|--------------|
| - | COVER SHEET | 2025-04-23 |
| 1 OF 2 | EXISTING CONDITIONS PLAN FOR DUNLIN WAY & PORTSMOUTH BOULEVARD | MARCH 2025 |
| 2 OF 2 | EXISTING CONDITIONS PLAN FOR DUNLIN WAY & PORTSMOUTH BOULEVARD | MARCH 2025 |
| C-101 | GENERAL NOTES AND LEGEND | 2025-04-23 |
| C-201 | DEMOLITION PLAN | 2025-04-23 |
| C-301 | SITE PLAN | 2025-04-23 |
| C-401 | GRADING AND DRAINAGE PLAN | 2025-04-23 |
| C-501 | UTILITIES PLAN | 2025-04-23 |
| C-601 | EROSION CONTROL NOTES AND DETAILS SHEET | 2025-04-23 |
| C-602 | DETAILS SHEET | 2025-04-23 |
| C-603 | DETAILS SHEET | 2025-04-23 |
| C-604 | DETAILS SHEET | 2025-04-23 |
| C-605 | DETAILS SHEET | 2025-04-23 |
| C-606 | DETAILS SHEET | 2025-04-23 |
| C-607 | DETAILS SHEET | 2025-04-23 |



LOCATION MAP

SCALE: 1" = 2000

- CONSTRUCTION NOTES THE CONTRACTOR SHALL NOT RELY ON SCALED DIMENSIONS AND SHALL CONTACT THE ENGINEER FOR CLARIFICATION IF A REQUIRED DIMENSION IS NOT PROVIDED ON THE PLANS . THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, AND FOR SITE CONDITIONS THROUGHOUT CONSTRUCTION. NEITHER THE PLANS NOR THE SEAL OF THE ENGINEER AFFIXED HEREON EXTEND TO OR INCLUDE SYSTEMS REQUIRED FOR THE
- SAFETY OF THE CONTRACTOR, THEIR EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING AND IMPLEMENTING SAFETY PROCEDURES AND SYSTEMS AS REQUIRED BY THE UNITED STATES OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), AND ANY STATE OR LOCAL SAFETY REGULATIONS.
- . TIGHE & BOND ASSUMES NO RESPONSIBILITY FOR ANY ISSUES LEGAL OR OTHERWISE, RESULTING FROM CHANGES MADE TO THESE DRAWINGS WITHOUT WRITTEN AUTHORIZATION OF TIGHE & BOND.



OWNER/APPLICANT: **BRORA LLC** 210 COMMERCE WAY, SUITE 300 PORTSMOUTH, NH 03801



PORTSMOUTH, NEW HAMPSHIRE 03801

SURVEYOR: DOUCET SURVEY, LLC. 102 KENT PLACE NEWMARKET, NH 03857

DESIGN REVIEW PHASE SET COMPLETE SET (15) SHEETS



NOTES: 1. REFERENCE: TAX MAP 213, LOT 12 DUNLIN WAY & PORTSMOUTH BOULEVARD PORTSMOUTH, NEW HAMPSHIRE 03801 D.S. PROJECT NO. 9009 2. TOTAL PARCEL AREA: 364,581 SQ. FT. OR 8.37 AC. 3. OWNER OF RECORD: BRORA LLC 210 COMMERCE WAY, SUITE 300 PORTSMOUTH, NH 03801 R.C.R.D. BOOK 3465, PAGE 462 4. ZONE: OR - DIMENSIONAL REQUIREMENTS:

3 AC.

- MIN. LOT AREA MIN. FRONTAGE
- 300 ft. MIN. FRONT SETBACK 50 ft. MIN. SIDE SETBACK 75 ft. MIN. REAR SETBACK 50 ft. MIN. BUILDING HEIGHT 60 ft.

ZONING INFORMATION LISTED HEREON IS BASED ON THE CITY OF PORTSMOUTH ZONING ORDINANCE AMENDED NOVEMBER 18, 2024 AS AVAILABLE ON THE CITY'S WEBSITE ON MARCH 25, 2025. ADDITIONAL REGULATIONS MAY APPLY, AND REFERENCE IS HEREBY MADE TO THE EFFECTIVE ZONING ORDINANCE. THE LAND OWNER IS RESPONSIBLE FOR VERIFYING AND COMPLYING WITH ALL APPLICABLE MUNICIPAL, STATE, AND FEDERAL REGULATIONS.

- 5. FIELD SURVEY PERFORMED BY J.P.E. & D.W.D. DURING FEBRUARY AND MARCH 2025 USING A TRIMBLE S6 TOTAL STATION AND A TRIMBLE R10 SURVEY GRADE GPS WITH A TRIMBLE TSC5 DATA COLLECTOR AND A TRIMBLE DINI DIGITAL LEVEL. TRAVERSE ADJUSTMENT BASED ON LEAST SQUARE ANALYSIS.
- 6. HORIZONTAL DATUM BASED ON NAD83(2011) NEW HAMPSHIRE STATE PLANE COORDINATE ZONE (2800) DERIVED FROM REDUNDANT GPS OBSERVATIONS UTILIZING THE KEYNET GPS VRS NETWORK.
- 7. VERTICAL DATUM IS BASED ON APPROXIMATE NAVD88(GEOID18) (±.2') DERIVED FROM REDUNDANT GPS OBSERVATIONS UTILIZING THE KEYNET GPS VRS NETWORK.
- 8. WETLANDS AND AREAS UNDER THE JURISDICTION OF THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES, PURSUANT TO NH ADMINISTRATIVE RULES CHAPTER ENV-WT 100-900, WERE DELINEATED BY TIGHE & BOND ON MARCH 21, 2025 USING THE FOLLOWING METHODOLOGY AND STANDARDS: a.REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL:
 - NORTHCENTRAL AND NORTHEAST REGION, (VERSION 2.0) JANUARY 2012, U.S. ARMY CORPS OF ENGINEERS. b.NEW ENGLAND HYDRIC SOILS TECHNICAL COMMITTEE. 2019 VERSION 4, FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND. NEW ENGLAND INTERSTATE WATER POLLUTION
 - CONTROL COMMISSION, LOWELL, MA. c.U.S. ARMY CORPS OF ENGINEERS. (2023). 2022 NATIONAL WETLAND PLANT LIST, VERSION 3.6. U.S. ARMY ENGINEER RESEARCH AND DÉVELOPMENT CENTER, VICKSBURG, MS.
 - ITTP: //WETLAND—PLANTS.USACE.ARM\ d. NEW HAMPSHIRE ADMINISTRATIVE RULE CHAPTER ENV-WT 602.23, DEFINITIONS: HIGHEST OBSERVABLE TIDE LINE (HOTL) AND ENV-WT 406, DELINEATION AND CLASSIFICATION OF JURISDICTIONAL AREAS, EFFECTIVE DECEMBER 15, 2019.
- **9.** FLOOD HAZARD ZONE:"X", PER FIRM MAP #33015C0259F, DATED 1/29/21.
- 10. PROPER FIELD PROCEDURES WERE FOLLOWED IN ORDER TO GENERATE CONTOURS AT 2' INTERVALS. ANY MODIFICATION OF THIS INTERVAL WILL DIMINISH THE INTEGRITY OF THE DATA, AND DOUCET SURVEY WILL NOT BE RESPONSIBLE FOR ANY SUCH ALTERATION PERFORMED BY THE USER.
- 11. THE ACCURACY OF MEASURED UTILITY INVERTS AND PIPE SIZES/TYPES IS SUBJECT TO NUMEROUS FIELD CONDITIONS, INCLUDING: THE ABILITY TO MAKE VISUAL OBSERVATIONS, DIRECT ACCESS TO THE VARIOUS ELEMENTS, MANHOLE CONFIGURATION, ETC.
- 12. THE INTENT OF THIS PLAN IS TO SHOW THE LOCATION OF BOUNDARIES IN ACCORDANCE WITH AND IN RELATION TO THE CURRENT LEGAL DESCRIPTION, AND IS NOT AN ATTEMPT TO DEFINE UNWRITTEN RIGHTS, DETERMINE THE EXTENT OF OWNERSHIP, OR DEFINE THE LIMITS OF TITLE.
- 13. ALL UNDERGROUND UTILITIES (ELECTRIC, GAS, TEL. WATER, SEWER DRAIN SERVICES) ARE SHOWN IN SCHEMATIC FASHION, THEIR LOCATIONS ARE NOT PRECISE OR NECESSARILY ACCURATE. NO WORK WHATSOEVER SHALL BE UNDERTAKEN USING THIS PLAN TO LOCATE THE ABOVE SERVICES. CONSULT WITH THE PROPER AUTHORITIES CONCERNED WITH THE SUBJECT SERVICE LOCATIONS FOR INFORMATION REGARDING SUCH. CALL DIG-SAFE AT 1-888-DIG-SAFE.
- 14. DUE TO THE COMPLEXITY OF RESEARCHING ROAD RECORDS AS A RESULT OF INCOMPLETE, UNORGANIZED, INCONCLUSIVE, OBLITERATED, OR LOST DOCUMENTS, THERE IS AN INHERENT UNCERTAINTY INVOLVED WHEN ATTEMPTING TO DETERMINE THE LOCATION AND WIDTH OF A ROADWAY RIGHT OF WAY. THE EXTENT OF DUNLIN WAY AS DEPICTED HEREON IS/ARE BASED ON RESEARCH CONDUCTED AT THE CITY OF PORTSMOUTH AND THE ROCKINGHAM COUNTY REGISTRY OF DEEDS. PORTSMOUTH BOULEVARD IS A 50 FOOT WIDE RIGHT OF WAY PER REFERENCE PLAN 7.
- 15. MONUMENT OF BOUNDARY LINE ABANDONED BY R.C.R.D. PLAN D-38784 (REF. PLANS 1).
- 16. AT TIME OF SURVEY PORTIONS OF PORTSMOUTH BOULEVARD ALONG THE SUBJECT PARCEL WAS OVERGROWN AND COVERED IN DEBRIS. THE LIMITS OF PAVEMENT AND SIDEWALK AS SHOWN IS BASED ON THE BEST AVAILABLE SURVEY LOCATIONS UNDER THE CURRENT STATE OF THE ROADWAY.

REFERENCE PLANS:

- 1. "BOUNDARY LINE ADJUSTMENT PLAN, LAND OF DOAKS, LLC (TAX MAP 213, LOT 2) AND BRORA, LLC (TAX MAP 213, LOT 12), PORTSMOUTH, NEW HAMPSHIRE" BY DOUCET SURVEY, INC., DATED DECEMBER 31, 2014, R.C.R.D. PLAN D-38784.

- 2. "PRELIMINARY CONCEPT PLAN AT SCHILLER STATION, PORTSMOUTH, NEW HAMPSHIRE", BY PUBLIC SERVICE OF NEW HAMPSHIRE GENERAL ENGINEERING DIVISION, DATED 2/3/97.
- "SUBDIVISION PLAN FOR BRORA, LLC", BY MILLETTE, SPRAGUE & COLWELL, INC., DATED AUGUST 27, 2003, R.C.R.D. PLAN #D-31583.
- 4. "SUBDIVISION/CONSOLIDATION PLAN MAP R-16/LOTS 1, 1-5 & 1-8B, MAP R-17/LOTS 2-1838
- THRU 2-1844, MAP R-17/LOT 2-0300", BY CLD CONSULTING ENGINEERS, INC., DATED DEC. 1999 R.C.R.D. PLAN #D-28385.
- 5. "RESUBDIVISION PLAN OSPREY LANDING", BY CLD CONSULTING ENGINEERS, INC., DATED FEB. 1999, R.C.R.D. PLAN #D-27099.
- 6. "LOT LINE RELOCATION PLAN OSPREY LANDING", BY CLD CONSULTING ENGINEERS, INC., DATED FEB. 1999, R.C.R.D. PLAN #D-27029.
- 7. "SUBDIVISION PLAN OF MARINERS VILLAGE & SPINNAKER POINT CONDOMINIUM", BY ASSOCIATED ENGINEERING SERVICES, DATED OCTOBER 23, 1993, R.C.R.D. PLAN #D-23202.

ABUTTERS INFORMATION: TAX MAP 213, LOT 2 NEP PORTSMOUTH OWNER LLC & COLONY CAPITAL 545 E JOHN CARPENTER FREEWAY SUITE 1400 IRVING, TX 75062 R.C.R.D. BOOK 5627, PAGE 702

TAX MAP 213, LOT 2–15 INISHMAAN ASSOC. LTD. PARTNERSHIP & JCM MANAGEMENT CO. 540 NORTH COMMERCIAL STREET MANCHESTER, NH 03101 R.C.R.D. BOOK 3078, PAGE 1947

TAX MAP 213, LOT 3 THOM GRAEME 1518 SUMMER AVE JUPITER, FL 33469

R.C.R.D. BOOK 3453, PAGE 2213 TAX MAP 213, LOT 4 DAVID S. ROGERS DECLARATION OF TRUST

15 DUNLIN WAY PORTSMOUTH, NH 03801 R.C.R.D. BOOK 5539, PAGE 146

TAX MAP 213, LOT 10 MUKHLIS & ALABDULLA FAMILY TRUST 20 DUNLIN WAY PORTSMOUTH, NH 03801 R.C.R.D. BOOK 6579, PAGE 466

TAX MAP 213, LOT 11 GSP SCHILLER, LLC 431 RIVER RD. BOW, NH 03304 R.C.R.D. BOOK 5887, PAGE 823

TAX MAP 216, LOT 1-8A BEACON HARBOR TRUST, LLC 210 COMMERCE WAY SUITE 300 PORTSMOUTH, NH 03801 R.C.R.D. BOOK 5877, PAGE 2905



EXISTING CONDITIONS PLAN FOR THE KANE COMPANY LAND OF

BRORA LLC (TAX MAP 213, LOT 12) **DUNLIN WAY & PORTSMOUTH BOULEVARD** PORSTMOUTH, NEW HAMPSHIRE

| NO. | DATE | D | ESCRIPTION | BY | | |
|--|---|---|------------|----|--|--|
| | | | | | | |
| DRAWN BY: G.A.N. DATE: MARCH 2025 | | | | | | |
| CHECKED BY: M.W.F. DRAWING NO. 9009A | | | | | | |
| JOB | 9009 9009 2 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 | | | | | |
| DOUCET SURVEY | | | | | | |
| Serving Your Professional Surveying & Mapping Needs 102 Kent Place, Newmarket, NH 03857 (603) 659-6560 Offices in Bedford & Keene, NH and Kennebunk, ME http://www.doucetsurvey.com | | | | | | |

| EXISTING CONDITIONS PLAN NOTES: 1. EXISTING CONDITIONS ARE BASED ON A FIELD SURVEY BY DOUCET SURVEY, LLC., DATED MARCH 2025. 2. WETLANDS AND AREAS UNDER THE JURISDICTION OF THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES, PURSUANT TO NH ADMINISTRATIVE RULES CHAPTER ENV-WT 100-900, WERE DELINEATED BY TIGHE & BOND ON MAP 213 LOT 11 AND MAP 216 LOT 1-8A ON MARCH 21, 2025 USING THE FOLLOWING METHODOLOGY AND | SEGMENTAL BLOCK WALL SYSTEM AS OUTLINED IN THE DETAILS. 11. PROPERTY MANAGER WILL BE RESPONSIBLE FOR TIMELY SNOW REMOVAL FROM ALL PUBLIC WALKS, DRIVES, AND PARKING AREAS ON-SITE. SNOW SHALL BE HAULED OFF-SITE AND LEGALLY DISPOSED OF, WHEN NECESSARY, WHEN SNOW STORAGE AREAS HAVE REACHED CAPACITY. |
|--|---|
| STANDARDS: a. REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHCENTRAL AND NORTHEAST REGION, (VERSION 2.0) JANUARY 20212, U.S. ARMY CORPS OF ENGINEERS. b. NEW ENGLAND HYDRIC SOILS TECHNICAL COMMITTEE. 2019 VERSION 4, FIELD INDICATORS FOR IDENTIFYING HYDRIC OILS IN NEW ENGLAND. NEW ENGLAND INTERSTATE WATER POLLUTION CONTROL COMMISSION, LOWELL, MA. c. U.S. ARMY CORPS OF ENGINEERS. (2023). 2022 NATIONAL WELAND PLANT LIST, VERSION 3.6. U.S. ARMY ENGINEER RESEARCH AND DEVELOPMENT CENTER, VICKSBURG, MS. HTTP://WETLAND-PLANTS.USACE.ARMY.MIL/ d. NEW HAMPSHIRE ADMINISTRATIVE RULE CHAPTER FNV-WT 602 23 DEFINITIONS' HIGHEST OBSERVABLE TIDE | GRADING AND DRAINAGE NOTES: 1. GENERAL COMPACTION REQUIREMENTS: • BELOW PAVED OR CONCRETE AREAS: 95% • TRENCH BEDDING MATERIAL AND SAND BLANKET BACKFILL: 95% • BELOW LOAM AND SEED AREAS: 90% * ALL PERCENTAGES OF COMPACTION SHALL BE OF THE MAXIMUM DRY DENSITY AT THE OPTIMUM MOISTURE CONTENT AS DETERMINED AND CONTROLLED IN ACCORDANCE WITH ASTM D-1557, METHOD C FIELD DENSITY TESTS SHALL BE MADE IN ACCORDANCE WITH ASTM D-1556 OR ASTM-2922. 2. ALL STORM DRAINAGE PIPES SHALL BE HIGH DENSITY POLYETHYLENE (HANCOR HI-O, ADS N-12 OR FOULD) OR RCP |
| I. NEW HAMPSHIKE ADMINISTRATIVE ROLE CHAPTER ENV-WT 602.25, DEFINITIONS. HIGHEST OBSERVABLE TIDE LINE (HOTL) AND ENV-WT 406, DELINEATION AND CLASSIFICATION OF JURISDICTIONAL AREAS, EFFECTIVE DECEMBER 15, 2019. <u>GENERAL NOTES:</u> I. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH THE CONDITIONS OF ALL OF THE | ALL STOKEN DIKARAGE THED STATE DE HIGH DENSITY FORTETTIELLE (HANCOR TH Q, ADS N 12 OK EQUAL) OK REP CLASS IV, UNLESS OTHERWISE SPECIFIED. SEE UTILITY PLAN FOR ALL SITE UTILITY INFORMATION. ADJUST ALL MANHOLES, CATCH BASINS, CURB BOXES, ETC. WITHIN LIMITS OF WORK TO FINISH GRADE. THE CONTRACTOR SHALL PROVIDE A FINISH PAVEMENT SURFACE AND LAWN AREAS FREE OF LOW SPOTS AND PONDING AREAS. CRITICAL AREAS INCLUDE BUILDING ENTRANCES, EXITS, RAMPS AND LOADING DOCK AREAS |
| b. Nether BRAUMED INDEXES SUBJECT EXCIDENCE. COMMITTEE: Dis VERSION 9, TELED INDEXESSER OLUTION CONTROL. b. B. ARMY CORES OF INSTRUMES, (2023). 2022 NUTYONE. WE AND HART LIST, VERSION 3.6. U.S. ARMY ENCIDERS RESERVANDE OF INSTRUMES CONTROL CONTROL. b. B. ARMY CORES OF INSTRUMES, (2023). 2022 NUTYONE. WE AND FAST LIST, VERSION 3.6. U.S. ARMY ENCIDERS RESERVANDES CONTROL CON | TENCH BECOMS MITERIAL AND SNACE SOLVERS ALL PERCENTAGE OF COMPACTION SHALL BE OF THE MAXAMUM DRY DENSITY AT THE OFTIMUM MOLTINE |
| SERVICES INCLUDE, BUT ARE NOT LIMITED TO ELECTRICAL, COMMUNICATION, FIRE PROTECTION, DOMESTIC WATER AND SEWER SERVICES. TEMPORARY SERVICES, IF REQUIRED, SHALL COMPLY WITH ALL FEDERAL, STATE, LOCAL AND UTILITY COMPANY STANDARDS. CONTRACTOR SHALL PROVIDE DETAILED CONSTRUCTION SCHEDULE TO OWNER PRIOR TO ANY DEMOLITION/CONSTRUCTION ACTIVITIES AND SHALL COORDINATE TEMPORARY SERVICES TO ABUTTERS WITH THE UTILITY COMPANY AND AFFECTED ABUTTER. 16. THE CONTRACTOR SHALL PROTECT ALL PROPERTY MONUMENTATION THROUGHOUT DEMOLITION AND CONSTRUCTION OPERATIONS. SHOULD ANY MONUMENTATION BE DISTURBED BY THE CONTRACTOR, THE CONTRACTOR SHALL EMPLOY A NEW HAMPSHIRE LICENSED SURVEYOR TO REPLACE DISTURBED MONUMENTS. 17. THE CONTRACTOR SHALL PAY ALL COSTS NECESSARY FOR TEMPORARY PARTITIONING, BARRICADING, FENCING, SECURITY AND SAFETY DEVICES REQUIRED FOR THE MAINTENANCE OF A CLEAN AND SAFE CONSTRUCTION SITE. 18. BOLD LINETYPES SHOWN WITHIN THE LIMITS OF WORK INDICATE SITE FEATURES TO BE REMOVED, UNLESS | |
| SITE NOTES: PAVEMENT MARKINGS, INCLUDING BUT NOT LIMITED TO; PARKING SPACES, STOP BARS, ADA SYMBOLS, PAINTED ISLANDS, CROSS WALKS, ARROWS, LEGENDS, AND CENTERLINES, SHALL BE CONSTRUCTED AS SHOWN ON THE DRAWINGS AND DETAILS, AND SHALL MEET THE FOLLOWING REQUIREMENTS: ALL ON-SITE PAVEMENT MARKINGS EXCEPT CENTERLINES, MEDIAN ISLANDS, FOG/SHOULDER LINES, AND LANE LINES SHALL BE CONSTRUCTED USING WHITE TRAFFIC PAINT, MEETING THE REQUIREMENTS OF AASHTO M248 TYPE "F". ALL ON-SITE CENTERLINES AND MEDIAN ISLANDS SHALL BE CONSTRUCTED USING YELLOW THERMOPLASTIC STRIPING MATERIAL, MEETING THE REQUIREMENTS OF AASHTO M249. ALL ON-SITE FOG/SHOULDER LINES AND LANE LINES SHALL BE CONSTRUCTED USING WHITE THERMOPLASTIC STRIPING MATERIAL, MEETING THE REQUIREMENTS OF AASHTO M249. ALL PAVEMENT MARKINGS WITHIN PUBLIC RIGHT OF WAY SHALL CONFORM TO THE CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC WORKS, AND APPLICABLE DEPARTMENT OF TRANSPORTATION (DOT), STANDARD SPECIFICATIONS. ALL PAVEMENT MARKINGS AND SIGNS SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" CURRENT EDITION, "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS" CURRENT EDITION, AND THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA), AND THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD (AAB), AS APPLICABLE. THE CONTRACTOR SHALL EMPLOY A NEW HAMPSHIRE LICENSED LAND SURVEYOR TO DETERMINE ALL LINES AND GRADES. CLCAN AND COAT VERTICAL FACE OF EXISTING PAVEMENT AT SAW CUT LINE WITH RS-1 EMULSION IMMEDIATELY PRIOR TO PLACING NEW BITUMINOUS CONCRETE. THE CONTRACTOR TO PROVIDE BACKFILL AND COMPACTION AT CURB LINE AFTER CONCRETE FORMS FOR SIDEWALKS | |
| AND PADS HAVE BEEN STRIPPED. 6. COORDINATE ALL WORK ADJACENT TO BUILDINGS WITH BUILDING DRAWINGS/CONTRACTOR. 7. SEE ARCHITECTURAL/BUILDING DRAWINGS FOR ALL CONCRETE PADS & SIDEWALKS ADJACENT TO BUILDING. 8. ALL LIGHT POLE BASES NOT PROTECTED BY A RAISED CURB SHALL BE PAINTED YELLOW. 9. ALL DIMENSIONS ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED. 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING RETAINING WALL DESIGN FROM STRUCTURAL ENGINEER AND/OR WALL MANUFACTURER. CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO CONSTRUCT WALL IN ACCORDANCE WITH DESIGN APPROVED BY THE ENGINEER. RETAINING WALL SHALL BE | |

| ORM TO THE NATIONAL ELECTRIC CODE, CURRENT EDITION, |
|---|
| CONNECTIONS SHALL BE COORDINATED WITH THE BUILDING |
| ETC. WITHIN LIMITS OF WORK TO FINISH GRADE. L ROPES TO FACILITATE PULLING CABLES. .Y WITH ALL REQUIRED PERMITS, ARRANGE FOR ALL RTIFICATES TO THE OWNER PRIOR TO THE COMPLETION OF |
| NHOLES, BOXES, FITTINGS, CONNECTORS, COVER PLATES, DETAILED ON THESE DRAWINGS TO RENDER INSTALLATION |
| NG, BACKFILL AND COMPACTION FOR NATURAL GAS SERVICE RATION SHALL BE PROVIDED BETWEEN ALL WATER AND |

| AC | ASBESTOS CEMENT PIPE |
|----------|----------------------|
| APPROX | APPROXIMATE |
| BC | BITUMINOUS CURB |
| BFP | BACK FLOW PREVENTOR |
| BIT | BITUMINOUS |
| BI | BASELINE |
| BLDC | BUILDING |
| | BOUND |
| BND | |
| BOC | BOTTOM OF CURB |
| BOI | BOTTOM |
| BS | BOTTOM OF STEP |
| BW | BOTTOM OF WALL |
| CATV | CABLE TELEVISION |
| CB | CATCH BASIN |
| CCW | CEMENT CONCRETE WALK |
| CEM | CEMENT |
| CI | CAST IRON PIPE |
| CL | CENTERLINE |
| CLE | CHAIN LINK FENCE |
| <u> </u> | CLEAN OUT |
| CONC | CONCRETE |
| CDD | |
| CY | |
| | |
| | |
| DI | |
| DIA | |
| DMH | DRAIN MANHOLE |
| E | EAST |
| EF | EACH FACE |
| EG | EXISTING GRADE |
| EL/ELEV | ELEVATION |
| ELEC | ELECTRIC |
| EMH | ELECTRIC MANHOLE |
| EOP | EDGE OF PAVEMENT |
| EW | EACH WAY |
| EXIST | EXISTING |
| FES | FLARED END SECTION |
| FF | FINISH FLOOR |
| FM | FORCE MAIN |
| G | GAS |
| 66 | GAS GATE |
| GRAN | GRANITE |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| 15 | |
| L | |
| LP | |
| Lſ | LEFT |
| MAX | MAXIMUM |
| МН | MANHOLE |

ABDN('D) ABANDON(ED)

BOT

CATV

CEM

CI

CPP

DIA

DMH

EW

HYD

MH

EXIST

| ABBREVIATIONS | |
|---------------|---|
| MIN | MINIMUM |
| MISC | MISCELLANEOUS |
| MON | MONUMENT |
| MJ | MECHANICAL JOINT |
| N | NORTH |
| NITC | NOT IN THIS CONTRACT |
| NTS | NOT TO SCALE |
| N/A | NOT APPLICABLE |
| N/F | NOW OR FORMERLY |
| 00 | ON CENTER |
| 005 | |
| OH | OVERHEAD |
| PB | PLANT BED |
| PC | |
| PCC | |
| PCPP | PERFORATED CORRUGATED POLVETHYLENE PIPE |
| PERE | |
| PI | |
| PRC | POINT OF REVERSE CURVATURE |
| PROT | PROTECT |
| PSF | POUNDS PER SOUARE FOOT |
| PSI | POUNDS PER SQUARE INCH |
| PT | |
| PVC | |
| PV/MT | |
| R | RADIUS |
| RCP | |
| RD | ROOF DRAIN |
| REV | REVISION |
| ROW | RIGHT OF WAY |
| RT | RIGHT |
| R&D | REMOVE AND DISPOSE |
| R&R | REMOVE AND RESET |
| R&S | REMOVE AND STACK |
| S | SOUTH |
| SAN | SANITARY |
| SCH | SCHEDULE |
| SE | SOUARE FOOT |
| SMH | SEWER MANHOLE |
| SS | STAINLESS STEEL |
| STA | STATION |
| STL | STEEL |
| STRM | STORM |
| Т | TANGENT LENGTH |
| TC | TOP OF CURB |
| TEL | TEL-DATA |
| ТР | TEST PIT |
| TS | TOP OF STEP |
| TW | TOP OF WALL |
| TYP | TYPICAL |
| UP | UTILITY POLE |
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LEGEND

DESCRIPTION

PROPERTY LINE ADJACENT PROPERTY LINE RIGHT OF WAY (ROW) LINE EASEMENT LINE ZONING DISTRICT BOUNDARY LINE (APPROX) BUILDING SETBACK LINE INTERMEDIATE CONTOURS INDEX CONTOURS SPOT / APPROX SPOT GRADE MAGNITUDE & DIRECTION OF SLOPE

LIMIT OF WETLANDS WATER COURSE LIMIT OF LOCAL WETLAND BUFFER LOCATION OF BORING (APPROX)

LOCATION OF TEST PIT (APPROX)

LIMIT OF WORK (APPROX) LIMIT OF SAWCUT (APPROX) LIMIT OF EROSION CONTROL (APPROX) INLET PROTECTION

PAVEMENT / CONCRETE SECTION TO BE REMOVED (APPROX)

LIMIT OF CLEARING & GRUBBING (APPROX)

LIMIT OF BUILDING(S) / STRUCTURE(S) TO BE REMOVED (APPROX)

LIMIT OF UTILITY / SITE FEATURE TO BE REMOVED (APPROX)

EDGE OF PAVEMENT VERTICAL GRANITE CURB SLOPED GRANITE CURB CURB RADIUS

PAVEMENT SECTION

CONCRETE SIDEWALK & TIP DOWN RAMP GUARDRAIL LIGHT POLE / BASE

SNOW STORAGE (APPROX)

PAVEMENT STRIPING

TREE LINE (APPROX) STONE WALL RETAINING WALL STORM DRAIN

STORM DRAIN MANHOLE

STORM DRAIN INLETS FLARED END SECTION & RIP RAP APRON

GRAVITY SANITARY SEWER GRAVITY SANITARY SEWER (APPROX)

WATER SERVICE (APPROX)

WATER SERVICE STRUCTURES UNDERGROUND ELECTRIC

UNDERGROUND ELECTRIC (APPROX)

OVERHEAD UTILITY (UNSPECIFIED) UNDERGROUND COMMUNICATIONS SERVICE UNDERGROUND ELECTRIC & COMMUNICATION SERVICES UNDERGROUND ELECTRIC / COMMUNICATIONS SERVICE STRUCTURES ELECTRIC / COMMUNICATION SERVICE STRUCTURES

SHRUBS / GROUND COVERS

PROPOSED **MULTI-FAMILY** DEVELOPMENT

Brora LLC

Portsmouth, NH

| MARK | DATE | DESCRIPTION | | | | |
|------------------------------|------|-------------|--|--|--|--|
| PROJECT NO: K0076-065 | | | | | | |
| DATE: APRIL 23, 2025 | | | | | | |
| FILE: K0076-065_C-DSGN.DWG | | | | | | |
| DRAWN BY: MDC/BKC | | | | | | |
| CHECKED: NAH | | | | | | |
| APPROVED: PMC | | | | | | |
| GENERAL NOTES AND LEGENDS | | | | | | |
| SCALE: AS SHOWN | | | | | | |
| C-101 | | | | | | |



Engineers | Environmental Specialists









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GAS SERVICE GAS SERVICE STRUCTURES DECIDUOUS TREE

EVERGREEN TREE

ORNAMENTAL TREE





PROPOSED MULTI-FAMILY DEVELOPMENT

Brora LLC

| | MARK | DATE | DESCRIPTION |
|---------|----------------------------|--------|----------------|
| | PROJEC | CT NO: | K0076-065 |
| | DATE: | | APRIL 23, 2025 |
| | FILE: K0076-065_C-DSGN.DWG | | |
| | CHECKED: MDC/BKC | | |
| | APPROVED: | | РМС |
| | DEMOLITION PLAN | | |
| 40' 80' | SCAL | E: | AS SHOWN |
| | C-201 | | |



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PROPOSED MULTI-FAMILY DEVELOPMENT

Brora LLC

| MARK | DATE | DESCRIPTION | | |
|------------------------------|----------------------|----------------------|--|--|
| PROJE | CT NO: | K0076-065 | | |
| DATE: | DATE: APRIL 23, 2025 | | | |
| FILE: | | K0076-065_C-DSGN.DWG | | |
| DRAWI | DRAWN BY: MDC/BKC | | | |
| CHECK | CHECKED: NAH | | | |
| APPRO | VED: | PMC | | |
| GRADING AND DRAINAGE PLAN | | | | |
| SCAI | _E: | AS SHOWN | | |
| C-401 | | | | |





PROPOSED MULTI-FAMILY DEVELOPMENT

Brora LLC

| | | DECOUDTION | | |
|---|---|---|--|--|
| MARK | DATE | DESCRIPTION | | |
| MARK PROJEC | CT NO: | K0076-065 | | |
| MARK PROJEC DATE: | DATE CT NO: | K0076-065 APRIL 23, 2025 | | |
| MARK PROJEC DATE: FILE: | DATE CT NO: | K0076-065 APRIL 23, 2025 K0076-065_C-DSGN.DWG | | |
| MARK PROJEC DATE: FILE: DRAWN | DATE CT NO: N BY: | K0076-065 APRIL 23, 2025 K0076-065_C-DSGN.DWG MDC/BKC | | |
| MARK PROJEC DATE: FILE: DRAWI CHECK | DATE CT NO: N BY: ED: | K0076-065 APRIL 23, 2025 K0076-065_C-DSGN.DWG MDC/BKC NAH | | |
| MARK PROJEC DATE: FILE: DRAWI CHECK APPRO | DATE CT NO: N BY: ED: VED: | K0076-065 APRIL 23, 2025 K0076-065_C-DSGN.DWG MDC/BKC NAH PMC | | |
| MARK PROJEC DATE: FILE: DRAWI CHECK APPRO | DATE CT NO: N BY: ED: VED: UTILI | K0076-065 APRIL 23, 2025 K0076-065_C-DSGN.DWG MDC/BKC NAH PMC | | |
| MARK PROJEC DATE: FILE: DRAWN CHECK APPRO | DATE CT NO: N BY: ED: VED: UTILI | K0076-065 APRIL 23, 2025 K0076-065_C-DSGN.DWG MDC/BKC NAH PMC TIES PLAN | | |

| GENERAL PROJECT | INFORMATION | PEI | RMANENTLY IN AN THESE AREAS, SILT FENCES |
|--|---|----------------------|---|
| PROJECT APPLICANT: | BRORA LLC | AN 6. DU | Y EARTH/DIKES SHALL BE REMOVED ONCE PE RING CONSTRUCTION, RUNOFF WILL BE DIVE |
| PROJECT NAME: | PROPOSED MULTI-FAMILY DEVELOPMENT | PIF FIL | PING OR STABILIZED CHANNELS WHERE POSS TERED THROUGH SILT FENCES, MULCH BERM |
| PROJECT ADDRESS: | DUNLIN WAY & PORTSMOUTH BOULEVARD PORTSMOUTH, NH 03801 | ST RA | ORM DRAIN BASIN INLETS SHALL BE PROVIDE CKS. THE SITE SHALL BE STABILIZED FOR TH |
| PROJECT LATITUDE: PROJECT LONGITUDE | 43°-05'-29" N : 70°-46'-48" W | DUST 1. TH | CONTROL: E CONTRACTOR SHALL BE RESPONSIBLE TO C |
| PROJECT DESCRIPT THE PROPOSED PROJ | TON ECT INCLUDES THREE 6-STORY MULTI-FAMILY BUILDINGS. THE PROJECT WILL | 2. DU EX | ST CONTROL METHODS SHALL INCLUDE, BUT POSED AREAS, COVERING LOADED DUMP TRU |
| ALSO CONSIST OF AS MANAGEMENT, UTILI | SSOCIATED SITE IMPROVEMENTS SUCH AS PAVING, STORMWATER TIES AND LIGHTING. | MU 3. DU | LCHING. ST CONTROL MEASURES SHALL BE UTILIZED |
| DISTURBED AREA THE TOTAL AREA TO | BE DISTURBED IS APPROXIMATELY 6.8 ACRES. | STOCK | PILES: |
| SOIL CHARACTERIS BASED ON THE SITE | STICS SPECIFIC SOIL SURVEY, THE SOILS ON SITE PRIMARILY CONSIST OF *** | 1. LO CU | CATE STOCKPILES A MINIMUM OF 50 FEET AW LVERTS. |
| SOILS WITH A HYDRO | DLOGIC SOIL GROUP RATING OF ***. | 2. AL PR | IOR TO THE ONSET OF PRECIPITATION. |
| THE STORMWATER R | UNOFF FROM THE SITE WILL BE DISCHARGED VIA A CLOSED DRAINAGE MED ON SITE WETLANDS WHICH ULTIMATELY FLOW TO THE PISCATAQUA | AC IN | COMMODATE THE DELIVERY AND REMOVAL OF FEGRITY OF THE BARRIER SHOULD BE INSPEC |
| RIVER. CONSTRUCTION SE | OUENCE OF MAJOR ACTIVITIES: | 4. PR | OTECT ALL STOCKPILES FROM STORMWATER I NTROL MEASURES SUCH AS BERMS, SILT SOC EVENT MIGRATION OF MATERIAL BEYOND THE |
| 1. CONSTRUCT TEM FACILITIES. EROS | PORARY AND PERMANENT SEDIMENT, EROSION AND DETENTION CONTROL SION, SEDIMENT AND DETENTION MEASURES SHALL BE INSTALLED PRIOR TO | OFF SI | TE VEHICLE TRACKING: |
| ANY EARTH MOV • NEW CONST | ING OPERATIONS THAT WILL INFLUENCE STORMWATER RUNOFF SUCH AS: RUCTION | 1. TH AN | E CONTRACTOR SHALL CONSTRUCT STABILIZ Y EXCAVATION ACTIVITIES. |
| CONTROL OFCONSTRUCT | DUST ION DURING LATE WINTER AND EARLY SPRING | VEGET | ATION: MPORARY GRASS COVER: |
| ALL PERMANENT BE STABILIZED U | DITCHES, SWALES, DETENTION, RETENTION AND SEDIMENTATION BASINS TO ISING THE VEGETATIVE AND NON-STRUCTURAL BMPS PRIOR TO DIRECTING | A. | SEEDBED PREPARATION: a. APPLY FERTILIZER AT THE RATE OF 600 |
| CLEAR AND DISP | 1. OSE OF DEBRIS. PORARY CHIVERTS AND DIVERSION CHANNELS AS DECLURED. | | LIMESTONE (EQUIVALENT TO 50 PERCEN RATE OF THREE (3) TONS PER ACRE; |
| . GRADE AND GRA | VITHIN 72 HOURS OF ACHIEVING EINICHED CRADE | В. | SEEDING: a. UTILIZE ANNUAL RYE GRASS AT A RATE |
| BEGIN PERMANE | VITTIN 72 HOURS OF ACTIEVING FINISHED GRADE. NT AND TEMPORARY SEEDING AND MULCHING. ALL CUT AND FILL SLOPES D AND MULCHED WITHIN 72 HOURS OF ACHIEVING EINTERIED CRADE | | b. WHERE THE SOIL HAS BEEN COMPACTED SOIL TO A DEPTH OF TWO (2) INCHES E |
| DAILY, OR AS RE | U AND MULCHED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE. QUIRED, CONSTRUCT TEMPORARY BERMS, DRAINS, DITCHES, PERIMETER OF MEASURES, SEDIMENT TRADS, ETC., MULCH AND SEED AS REQUIRED. | | c. APPLY SEED UNIFORMLY BY HAND, CYCL INCLUDING SEED AND FERTILIZER). HY |
| SOTIS ADE CTAD | S AND/OR BASINS SHALL BE USED AS NECESSARY TO CONTAIN RUNOFF UNTIL | | BE LEFT ON SOIL SURFACE. SEEDING RA HYDROSEEDING; |
|). FINISH PAVING A | LIZED. ALL ROADWAYS AND PARKING LOTS. ANTAIN ALL FROSION AND SEDIMENT CONTROL MEASURES | C. | MAINTENANCE: a. TEMPORARY SEEDING SHALL BE PERIOD |
| 2. COMPLETE PERM | ANENT SEEDING AND LANDSCAPING. | | THE SOIL SURFACE SHOULD BE COVERE EROSION OR SEDIMENTATION IS APPAR |
| TEMPORARY ERO | SION CONTROL MEASURES. | _ | TEMPORARY MEASURES USED IN THE IN DAMS, ETC.). |
| THE CONSTRUCT | CTION NOTES: ION SEQUENCE MUST LIMIT THE DURATION AND AREA OF DISTURBANCE. THE | 2. VE A. | GETATIVE PRACTICE: FOR PERMANENT MEASURES AND PLANTING |
| AREA OF DISTUR | BANCE SHALL NOT EXCEED 5 ACRES AT ANY ONE TIME BEFORE DISTURBED BILIZED UNLESS FURTHER APPROVAL IS RECEIVED FROM THE NEW HAMPSHIRE | | a. LIMESTONE SHALL BE THOROUGHLY INC OF THREE (3) TONS PER ACRE IN ORDER |
| . THE PROJECT IS | S MANAGEMENT BUREAU. TO BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT | | b. FERTILIZER SHALL BE SPREAD ON THE SURFACE. FERTILIZER APPLICATION RATION |
| ROSION CONTROL | ND CHAPTER AGR 3800 RELATIVE TO INVASIVE SPECIES. | | c. SOIL CONDITIONERS AND FERTILIZER S |
| ALL EROSION CO | NTROL MEASURES AND PRACTICES SHALL CONFORM TO THE "NEW HAMPSHIRE ANUAL VOLUME 3: EROSION AND SEDIMENT CONTROLS DURING | | UNTIL THE SURFACE IS FINELY PULVERI |
| CONSTRUCTION" | PREPARED BY THE NHDES. ORK OR SOIL DISTURBANCE, CONTRACTOR SHALL SUBMIT SHOP DRAWINGS | | GRADES WITH APPROVED ROLLERS WEI |
| FOR EROSION CO | ONTROL MEASURES AS REQUIRED IN THE PROJECT MANUAL. | | d. SEED SHALL BE SOWN AT THE RATE SH |
| BALES, SILT FEN DRAWINGS AS TH | CES, MULCH BERMS, SILT SACKS AND SILT SOCKS AS SHOWN IN THESE HE FIRST ORDER OF WORK. | | WORKMEN. IMMEDIATELY BEFORE SEED |
| SILT SACK INLET BASIN INLETS W | PROTECTION SHALL BE INSTALLED IN ALL EXISTING AND PROPOSED CATCH | | ANGLES TO THE ORIGINAL DIRECTION. |
| PROJECT. TEMPORARY WAT | ER DIVERSION AND PERIMETER CONTROLS INCLUDING SILT FENCES, MULCH | | OVER 100 POUNDS PER LINEAR FOOT OF |
| BERM, SILT SOCH THE PROJECT UN | (, AND/OR HAY BALE BARRIERS SHALL BE MAINTAINED FOR THE DURATION OF TIL NON-PAVED AREAS HAVE BEEN STABILIZED. | | f. THE SURFACE SHALL BE WATERED AND |
| THE CONTRACTO CONTROL DEVIC | R SHALL REMOVE AND PROPERLY DISPOSE OF ALL TEMPORARY EROSION ES UPON COMPLETION OF CONSTRUCTION. | | AREAS WHICH ARE NOT SATISFACTORIL |
| ALL DISTURBED | AREAS NOT OTHERWISE BEING TREATED SHALL RECEIVE 6" LOAM, SEED AND | | g. THE CONTRACTOR SHALL PROTECT AND |
| INSPECT ALL INL STORM OF 0.25 I | ET PROTECTION AND PERIMETER CONTROLS WEEKLY AND AFTER EACH RAIN NCH OR GREATER. REPAIR/MODIFY PROTECTION AS NECESSARY TO MAXIMIZE | | h. A GRASS SEED MIXTURE CONTAINING T |
| EFFICIENCY OF F CONSTRUCT ERO | ILTER. REPLACE ALL FILTERS WHEN SEDIMENT IS 1/3 THE FILTER HEIGHT. SION CONTROL BLANKETS ON ALL SLOPES STEEPER THAN 3:1. | | SEED MIX APPLICATION CREEPING RED FESCUE 2018S |
| ABILIZATION: | BE CONSIDERED STABLE WHEN ONE OF THE FOLLOWING HAS OCCUPPED. | | TALL FESCUE 20 LBS/ REDTOP 21 BS/ |
| A. BASE COURS | E GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED; DF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED. | | IN NO CASE SHALL THE WEED CONTENT SEED SHALL COMPLY WITH STATE AND |
| C. A MINIMUM (INSTALLED) | OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIPRAP HAS BEEN | | DONE NO LATER THAN SEPTEMBER 15. I SNOW. |
| D. EROSION CO E. IN AREAS TO | NTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.; BE PAVED, "STABLE" MEANS THAT BASE COURSE GRAVELS MEETING THE | 3. DO A. | RMANT SEEDING (SEPTEMBER 15 TO FIRST S FOLLOW PERMANENT MEASURES SLOPE, LIM |
| REQUIREMEN ITEM 304.2 H | ITS OF NHDOT STANDARD FOR ROAD AND BRIDGE CONSTRUCTION, 2016, AVE BEEN INSTALLED. | | APPLY SEED MIXTURE AT TWICE THE INDICA PERMANENT MEASURES. |
| WINTER STABILI | ZATION PRACTICES: ED VEGETATED AREAS THAT DO NOT EXHIBIT A MINIMUM OF 85 PERCENT | | RETE WASHOUT AREA: |
| VEGETATIVE SHALL BE ST | GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, ABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON | A. | FACILITIES AT THEIR OWN PLANT OR DISPA |
| SLOPES GRE ACRE, SECU | ATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER RED WITH ANCHORED NETTING, ELSEWHERE. THE INSTALLATION OF EROSION | В. | AND DESIGN FACILITIES TO HANDLE ANTIC |
| CONTROL BL SNOW OR OF | ANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED N FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR | C. | CONTRACTOR SHALL LOCATE WASHOUT ARE DRAINS, SWALES AND SURFACE WATERS OF |
| SPRING MEL B. ALL DITCHES | T EVENTS; S OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85 PERCENT | D. | INSPECT WASHOUT FACILITIES DAILY TO DI WHEN MATERIALS NEED TO BE REMOVED. |
| VEGETATIVE SHALL BE ST | GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, ABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS | ALLOV | VABLE NON-STORMWATER DISCHARGES: |
| APPROPRIAT C. AFTER OCTO | E FOR THE DESIGN FLOW CONDITIONS; BER 15, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS | 1. TH NO | E FOLLOWING ARE THE ONLY NON-STORMWA N-STORMWATER DISCHARGES ARE PROHIBIT |
| STOPPED FO OF CRUSHED | K THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES GRAVEL PER NHDOT ITEM 304.3, OR IF CONSTRUCTION IS TO CONTINUE | 1.1. 1.2. | FIRE-FIGHTING ACTIVITIES; FIRE HYDRANT FLUSHING: |
| THROUGH TH STORM EVEN | TE WINTER SEASON BE CLEARED OF ANY ACCUMULATED SNOW AFTER EACH | 1.3. 1 ∕ | WATERS USED TO WASH VEHICLES WHERE |
| WHERE CONSTRU | JCTION ACTIVITY SHALL NOT OCCUR FOR MORE THAN TWENTY-ONE (21) | 1.5. | POTABLE WATER INCLUDING UNCONTAMINA |
| CALENDAR DAYS | BY THE FOURTEENTH (14TH) DAY AFTER CONSTRUCTION ACTIVITY HAS R TEMPORARILY CEASED IN THAT AREA. STABILIZATION MEASURES TO BE | 1.6. 1.7. | ROUTINE EXTERNAL BUILDING WASH DOWN PAVEMENT WASH WATERS WHERE DETERGE |
| USED INCLUDE: A. TEMPORARY | SEEDING; | 1.8. 1.9. | UNCONTAMINATED AIR CONDITIONING/COM UNCONTAMINATED GROUND WATER OR SPR |
| в. MULCHING. . ALL AREAS SHAL | L BE STABILIZED WITHIN 45 DAYS OF INITIAL DISTURBANCE. | 1.10. | FOUNDATION OR FOOTING DRAINS WHICH |
| . WHEN CONSTRUCT NEARBY SURFACT | ETION ACTIVITY PERMANENTLY OR TEMPORARILY CEASES WITHIN 100 FEET OF E WATERS OR DELINEATED WETLANDS, THE AREA SHALL BE STABILIZED | | |
| WITHIN SEVEN (| /) DAYS OR PRIOR TO A RAIN EVENT. ONCE CONSTRUCTION ACTIVITY CEASES | | |
| | | | |

S, MULCH BERMS, HAY BALE BARRIERS AND RMANENT MEASURES ARE ESTABLISHED. RTED AROUND THE SITE WITH EARTH DIKES, IBLE. SHEET RUNOFF FROM THE SITE WILL BE 1S, HAY BALE BARRIERS, OR SILT SOCKS. ALL ED WITH FLARED END SECTIONS AND TRASH E WINTER BY OCTOBER 15.

CONTROL DUST THROUGHOUT THE

BE NOT LIMITED TO SPRINKLING WATER ON JCKS LEAVING THE SITE, AND TEMPORARY

SO AS TO PREVENT THE MIGRATION OF DUST

NAY FROM CATCH BASINS, SWALES, AND

TH TEMPORARY EROSION CONTROL MEASURES

AT ALL TIMES, AND ADJUSTED AS NEEDED TO 1. F MATERIALS FROM THE STOCKPILE. THE CTED AT THE END OF EACH WORKING DAY. RUN-OFF USING TEMPORARY EROSION CK, OR OTHER APPROVED PRACTICE TO IMMEDIATE CONFINES OF THE STOCKPILES.

ED CONSTRUCTION ENTRANCE(S) PRIOR TO

POUNDS PER ACRE OF 10-10-10. APPLY NT CALCIUM PLUS MAGNESIUM OXIDE) AT A

E OF 40 LBS/ACRE;

D BY CONSTRUCTION OPERATIONS, LOOSEN BEFORE APPLYING FERTILIZER, LIME AND SEED; LONE SEEDER, OR HYDROSEEDER (SLURRY DROSEEDINGS, WHICH INCLUDE MULCH, MAY ATES MUST BE INCREASED 10% WHEN

DICALLY INSPECTED. AT A MINIMUM, 95% OF ED BY VEGETATION. IF ANY EVIDENCE OF ENT, REPAIRS SHALL BE MADE AND OTHER ITERIM (MULCH, FILTER BARRIERS, CHECK

CORPORATED INTO THE LOAM LAYER AT A RATE TO PROVIDE A PH VALUE OF 5.5 TO 6.5; TOP LAYER OF LOAM AND WORKED INTO THE TE SHALL BE 800 POUNDS PER ACRE OF

SHALL BE APPLIED AT THE RECOMMENDED RKED INTO THE LOAM. LOAM SHALL BE RAKED ZED, SMOOTH AND EVEN, AND THEN FORMING TO THE REQUIRED LINES AND GHING BETWEEN 4-1/2 POUNDS AND 5-1/2

OWN BELOW. SOWING SHALL BE DONE ON A INE, BUT IF BY HAND, ONLY BY EXPERIENCED ING, THE SOIL SHALL BE LIGHTLY RAKED. ONE DIRECTION AND THE OTHER HALF AT RIGHT IT SHALL BE LIGHTLY RAKED INTO THE SOIL OLLED WITH A HAND ROLLER WEIGHING NOT WIDTH;

TELY AFTER SEEDING AS INDICATED ABOVE; KEPT MOIST WITH A FINE SPRAY AS REQUIRED INTIL THE GRASS IS WELL ESTABLISHED. ANY LY COVERED WITH GRASS SHALL BE RESEEDED,

MAINTAIN THE SEEDED AREAS UNTIL

HE FOLLOWING SEED REQUIREMENTS SHALL

RATE ACRE

ACRE

CRE

EXCEED ONE (1) PERCENT BY WEIGHT. ALL FEDERAL SEED LAWS. SEEDING SHALL BE IN NO CASE SHALL SEEDING TAKE PLACE OVER

NOWFALL): ME, FERTILIZER AND GRADING REQUIREMENTS. ATED RATE. APPLY MULCH AS INDICATED FOR

HENEVER POSSIBLE, USE WASHOUT TCH FACILITY;

ALL DESIGNATE SPECIFIC WASHOUT AREAS

- CIPATED WASHOUT WATER; EAS AT LEAST 150 FEET AWAY FROM STORM
- DELINEATED WETLANDS;

TECT LEAKS OR TEARS AND TO IDENTIFY

TER DISCHARGES ALLOWED. ALL OTHER ED ON SITE:

DETERGENTS ARE NOT USED;

ATED WATER LINE FLUSHING;

WHERE DETERGENTS ARE NOT USED;

NTS ARE NOT USED; IPRESSOR CONDENSATION;

- ING WATER;
- ARE UNCONTAMINATED;

1.11. UNCONTAMINATED EXCAVATION DEWATERING; 1.12. LANDSCAPE IRRIGATION.

WASTE DISPOSAL:

- 4. WASTE MATERIAL: A. ALL WASTE MATERIALS SHALL BE COLLECTED AND STORED IN SECURELY LIDDED RECEPTACLES. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE SHALL BE DEPOSITED IN A DUMPSTER;
 - B. NO CONSTRUCTION WASTE MATERIALS SHALL BE BURIED ON SITE;
 - C. ALL PERSONNEL SHALL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL BY THE SUPERINTENDENT.
- 2. HAZARDOUS WASTE: A. ALL HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER: B. SITE PERSONNEL SHALL BE INSTRUCTED IN THESE PRACTICES BY THE SUPERINTENDENT.
- 3. SANITARY WASTE: A. ALL SANITARY WASTE SHALL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONCE PER WEEK BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR.

SPILL PREVENTION:

- CONTRACTOR SHALL BE FAMILIAR WITH SPILL PREVENTION MEASURES REQUIRED BY LOCAL, STATE AND FEDERAL AGENCIES. AT A MINIMUM, CONTRACTOR SHALL FOLLOW THE BEST MANAGEMENT SPILL PREVENTION PRACTICES OUTLINED BELOW.
- 2. THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT SHALL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND
- SUBSTANCES DURING CONSTRUCTION TO STORMWATER RUNOFF: A. GOOD HOUSEKEEPING - THE FOLLOWING GOOD HOUSEKEEPING PRACTICE SHALL BE FOLLOWED ON SITE DURING CONSTRUCTION:
- a. ONLY SUFFICIENT AMOUNTS OF PRODUCTS TO DO THE JOB SHALL BE STORED ON SITE
- b. ALL REGULATED MATERIALS STORED ON SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR PROPER (ORIGINAL IF POSSIBLE) CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE, ON AN IMPERVIOUS SURFACE;
- c. MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL SHALL BE FOLLOWED;
- d. THE SITE SUPERINTENDENT SHALL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS;
- e. SUBSTANCES SHALL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER;
- f. WHENEVER POSSIBLE ALL OF A PRODUCT SHALL BE USED UP BEFORE DISPOSING OF THE CONTAINER. q. THE TRAINING OF ON-SITE EMPLOYEES AND THE ON-SITE POSTING OF RELEASE
- RESPONSE INFORMATION DESCRIBING WHAT TO DO IN THE EVENT OF A SPILL OF REGULATED SUBSTANCES.
- B. HAZARDOUS PRODUCTS THE FOLLOWING PRACTICES SHALL BE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS:
- a. PRODUCTS SHALL BE KEPT IN THEIR ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE;
- b. ORIGINAL LABELS AND MATERIAL SAFETY DATA SHALL BE RETAINED FOR IMPORTANT **PRODUCT INFORMATION;**

c. SURPLUS PRODUCT THAT MUST BE DISPOSED OF SHALL BE DISCARDED ACCORDING TO THE MANUFACTURER'S RECOMMENDED METHODS OF DISPOSAL C. PRODUCT SPECIFIC PRACTICES - THE FOLLOWING PRODUCT SPECIFIC PRACTICES SHALL

BE FOLLOWED ON SITE:

- a. PETROLEUM PRODUCTS: i. ALL ON SITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE LEAKAGE;
- ii. PETROLEUM PRODUCTS SHALL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT BASED SUBSTANCES USED ON SITE SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. iii. SECURE FUEL STORAGE AREAS AGAINST UNAUTHORIZED ENTRY;
- iv. INSPECT FUEL STORAGE AREAS WEEKLY;
- v. WHEREVER POSSIBLE, KEEP REGULATED CONTAINERS THAT ARE STORED OUTSIDE MORE THAN 50 FEET FROM SURFACE WATER AND STORM DRAINS, 75 FEET FROM PRIVATE WELLS, AND 400 FEET FROM PUBLIC WELLS;
- vi. COVER REGULATED CONTAINERS IN OUTSIDE STORAGE AREAS;
- VII. SECONDARY CONTAINMENT IS REQUIRED FOR CONTAINERS CONTAINING REGULATED SUBSTANCES STORED OUTSIDE, EXCEPT FOR ON PREMISE USE HEATING FUEL TANKS, OR ABOVEGROUND OR UNDERGROUND STORAGE TANKS OTHERWISE REGULATED.
- viii. THE FUEL HANDLING REQUIREMENTS SHALL INCLUDE: (1) EXCEPT WHEN IN USE, KEEP CONTAINERS CONTAINING REGULATED SUBSTANCES CLOSED AND SEALED;
 - (2) PLACE DRIP PANS UNDER SPIGOTS, VALVES, AND PUMPS;
 - (3) HAVE SPILL CONTROL AND CONTAINMENT EQUIPMENT READILY AVAILABLE IN ALL WORK AREAS;
 - (4) USE FUNNELS AND DRIP PANS WHEN TRANSFERRING REGULATED SUBSTANCES;
 - (5) PERFORM TRANSFERS OF REGULATED SUBSTANCES OVER AN IMPERVIOUS SURFACE.
- ix. FUELING AND MAINTENANCE OF EXCAVATION, EARTHMOVING AND OTHER CONSTRUCTION RELATED EQUIPMENT SHALL COMPLY WITH THE REGULATIONS OF THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES THESE REQUIREMENTS ARE SUMMARIZED IN WD-DWGB-22-6 BEST MANAGEMENT PRACTICES FOR FUELING AND MAINTENANCE OF EXCAVATION AND EARTHMOVING EQUIPMENT, OR ITS SUCCESSOR DOCUMENT.

HTTPS://WWW.DES.NH.GOV/ORGANIZATION/COMMISSIONER/PIP/FACTSHEETS/DWGB/DOCUMENTS/DWGB-22-6.PDF b. FERTILIZERS:

- i. FERTILIZERS USED SHALL BE APPLIED ONLY IN THE MINIMUM AMOUNTS DIRECTED BY THE SPECIFICATIONS;
- ii. ONCE APPLIED FERTILIZER SHALL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORMWATER;
- iii. STORAGE SHALL BE IN A COVERED SHED OR ENCLOSED TRAILERS. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER SHALL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.
- c. PAINTS:
- i. ALL CONTAINERS SHALL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE;
- ii. EXCESS PAINT SHALL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM;
- iii. EXCESS PAINT SHALL BE DISPOSED OF PROPERLY ACCORDING TO MANUFACTURER'S INSTRUCTIONS OR STATE AND LOCAL REGULATIONS. D. SPILL CONTROL PRACTICES - IN ADDITION TO GOOD HOUSEKEEPING AND MATERIAL
- MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTION, THE FOLLOWING PRACTICES SHALL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:
- a. MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE CLEARLY POSTED AND SITE PERSONNEL SHALL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES;
- b. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP SHALL BE KEPT IN THE MATERIAL STORAGE AREA ON SITE. EQUIPMENT AND MATERIALS SHALL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST AND PLASTIC OR METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE;
- c. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY;
- d. THE SPILL AREA SHALL BE KEPT WELL VENTILATED AND PERSONNEL SHALL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A















STEPS

MAY

VARY)

INLET

(LOCATION

CONTECH JELLYFISH STORMWATER FILTER NO SCALE



DRAIN CLEAN-OUT NO SCALE

. 4 . 4

HOLE

-HI-FLO

—DECK WEIR

CARTRIDGE



FIELD ELEVATIONS

INLET PIPE

TBD

JELLYFISH JFPD0806 - DESIGN NOT

INLET

ELEVATION

TBD

RIM ELEVATION

TBD

TBD





4.59 25 3/1

| NTS | | |
|-----|----------|--|
| | JF-1 | |
| | JFPD0406 | |
| | 0.58 | |

0.089 / 0.045

0.98

4 00

| ES | |
|---|-------------------------------|
| RTRIDGES. THE STANDAR NS ARE AVAILABLE. PEAK | D PEAK DIVERSIO CONVEYANCE |
| 27" | 15" |

0.049 / 0.025

| OULET PIPE | |
|------------|--|
| TBD | |

OUTLET ELEVATION

MANUFACTURED BY KLEANSTREAM (NO EQUAL) 2. INSTALL DEBRIS TRAP TIGHT TO INSIDE OF STRUCTURE. 3. 1/4" HOLE SHALL BE DRILLED IN TOP OF DEBRIS TRAP

FLOATING DEBRIS TRAP

1. ALL CATCH BASIN OUTLETS TO

HAVE "ELIMINATOR" OIL AND

NOTES:



PROPOSED **MULTI-FAMILY** DEVELOPMENT

Brora LLC

| MARK | DATE | DESCRIPTION | | |
|---------------|----------------------------|-------------|--|--|
| PROJE | PROJECT NO: K0076-065 | | | |
| DATE: | DATE: APRIL 23, 2025 | | | |
| FILE: | FILE: K0076-065_C-DTLS.DWG | | | |
| DRAW | N BY: | MDC/BKC | | |
| CHECK | ED: | NAH | | |
| APPRO | VED: | PMC | | |
| DETAILS SHEET | | | | |
| SCAI | _E: | AS SHOWN | | |
| C-605 | | | | |







- 1. THESE GENERIC PEDESTRIAN GUARD AND FENCE DETAILS SHOW POTENTIAL OPTIONS FOR INSTALLATION ON THE TOP OF RETAINING WALL. IT IS THE WALL DESIGN ENGINEER'S RESPONSIBILITY TO FULLY DESIGN AND DETAIL THE CONNECTION OF THE GUARD POSTS TO THE RETAINING WALL BLOCKS
- AND ASSURE ACCEPTABLE RESISTANCE TO THE APPLIED FORCES.

TYPICAL FENCE OR PEDESTRIAN GUARD CONNECTION OPTIONS NO SCALE

ENCASING FINISHED GRADE ~ 10'-0" MIN. WATER LINE -SEWER LINE 🥆 10'-0" MIN. 6" THICK ¬ CONCRETE ENCASING PLAN VIEW

∽ 6" THICK CONCRETE



6" LOAM-& SEED



SPRING LINE BEDDING AND BACKFILL MATERIAL UNDISTURBED-SOIL

EXISTING OR PROPOSED WATER LINE. AN 18" MINIMUM EDGE TO EDGE VERTICAL SEPARATION SHALL BE PROVIDED, WITH WATER ABOVE SEWER, AT ALL CROSSINGS.

A 10 FOOT MINIMUM EDGE TO EDGE HORIZONTAL SEPARATION SHALL BE PROVIDED FROM ANY

- SEWER PIPE JOINTS SHALL BE LOCATED AT LEAST 6 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN
- WHERE AN 18" VERTICAL SEPARATION CANNOT BE PROVIDED, SEWER PIPE SHALL BE CONSTRUCTED USING A SDR 26 PVC PIPE OR ENCASED CONCRETE FOR A MINIMUM DISTANCE OF 10 FEET ON BOTH SIDES OF THE LINE BEING CROSSED, AS SHOWN ABOVE. 5. CROSSINGS SHALL CONFORM TO THE CITY OF PORTSMOUTH STANDARDS AND SPECIFICATIONS.

WATER & SEWER CROSSING

NO SCALE

- 1. RETAINING WALL SHALL BE REDI ROCK (BASIS OF DESIGN), VERSA-LOK, RECON WALL SYSTEMS, OR EQUAL.
- 2. THE CONTRACTOR SHALL SUBMIT DESIGN AND CALCULATIONS FOR THE RETAINING WALL THAT SHALL BE STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW HAMPSHIRE. CALCULATIONS SHALL INCLUDE A GLOBAL STABILITY ANALYSIS.
- MINIMUM DESIGN PARAMETERS:

SEWER LINE 🔨

WATER LINE 🔨

- GLOBAL STABILITY FACTOR OF SAFETY = 1.3
- OVERTURNING FACTOR OF SAFETY UNDER STATIC LOADS = 1.5
- SLIDING FACTOR OF SAFETY UNDER STATIC LOADS = 1.5 • GEOGRID PULLOUT FACTOR OF SAFETY = 1.5
- SEISMIC FACTOR OF SAFETY = 1.1
- EQUIVALENT FLUID PRESSURE = 40 POUNDS PER CUBIC FOOT (PCF) FOR GRAVITY AND CANTILEVERED WALLS ABOVE GROUNDWATER AND WALLS WITH APPROPRIATE DRAINAGE BEHIND THE WALL.
- HYDROSTATIC WATER PRESSURE ALONG THE HEIGHT OF THE WALL BELOW GROUNDWATER SHOULD BE INCLUDED IF DRAINAGE IS NOT PROVIDED.
- WHERE THE CALCULATED EARTH PRESSURE BEHIND THE WALL IS LESS THAN 250 POUNDS PER SQUARE FOOT (PSF), IT SHOULD BE INCREASED TO 250 PSF TO ACCOUNT FOR STRESSES CREATED BY COMPACTION WITHIN 5 FEET OF THE WALL
- WALLS SHOULD BE DESIGNED FOR APPROPRIATE SLOPING BACKFILL • WALLS SHOULD BE DESIGNED TO RESIST AN EARTHQUAKE FORCE IN ACCORDANCE
- WITH THE INTERNATIONAL BUILDING CODE (IBC), CURRENT EDITION. 4. WALL DESIGNS SHALL CONSIDER EFFECTS OF SLOPE, TRAFFIC LOADS, BUILDING LOADS, STRUCTURES, UTILITIES, GUARDRAIL AND/OR FENCING AS REQUIRED.
- WALL DESIGN ENGINEER SHALL CONSIDER HEIGHT AND SPECIFY SAFETY RAIL WHERE REQUIRED.
- 6. ALL INSTALLATION PROCEDURES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION MANUAL AND THE WALL DESIGN ENGINEER'S DESIGN PLANS AND SPECIFICATIONS.
- 7. THE WALL DESIGN ENGINEER SHALL COMPLETE SUFFICIENT INSPECTIONS DURING CONSTRUCTION TO CERTIFY WORK IS COMPLETED IN ACCORDANCE WITH DESIGN.
- 8. CONTRACTOR SHALL DIRECT SURFACE RUNOFF AWAY FROM THE WALL DURING CONSTRUCTION.
- 9. ANY SURFACE DRAINAGE FEATURES, FINISH GRADING, PAVEMENT OR OTHER SURFACE TREATMENT SHALL BE INSTALLED IN THE AREA OF THE WALL IMMEDIATELY AFTER THE WALL IS COMPLETE OR OTHER MEASURES SHALL BE TAKEN TO PROTECT THE WALL FROM RUNOFF
- 10. CONTRACTOR SHALL SUPPLY PRODUCT INFORMATION FOR BLOCK TYPE / TEXTURE AND COLOR CHOICE TO THE OWNER FOR APPROVAL PRIOR TO ORDERING MATERIALS.
- 11. RETAINING WALL DESIGN PLANS AND CALCULATIONS SHALL BE FROM THE WALL
- MANUFACTURER AND SHALL INCLUDE A GLOBAL STABILITY ANALYSIS. 12. FINAL STRUCTURAL DESIGN TO BE SUBMITTED TO THE ENGINEER WITH ALL REQUIRED CALCULATIONS AND PLANS.
- 13. STRUCTURAL DESIGN TO BE COMPLETED AND STAMPED BY A NEW HAMPSHIRE LICENSED STRUCTURAL ENGINEER. DESIGN ENGINEER SHALL INSPECT WALL DURING CONSTRUCTION AND CERTIFY THAT IT HAS BEEN INSTALLED IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS SUBMITTED AS PART OF THE BUILDING PERMIT.
- 14. AN AS-BUILT PLAN SHOWING WALL LOCATION AND DIMENSIONS SHALL BE SUBMITTED TO THE OWNER AND ENGINEER UPON COMPLETION. 15. ANY UNSUITABLE SOIL SUCH AS FROZEN OR ORGANIC SOILS SHOULD BE REMOVED
- FROM BEHIND THE PROPOSED RETAINING WALLS AND REPLACED WITH FREE DRAINING BACKFILL SUCH AS GRAVEL BORROW.
- 16. EXISTING FILL SHOULD NOT BE USED WITHIN FIVE (5) FEET OF CANTILEVERED OR GRAVITY WALLS.
- 17. THESE DETAILS ARE FOR REFERENCE ONLY. DETERMINATION OF THE SUITABILITY AND/OR MANNER OF USE OF ANY DETAILS CONTAINED IN THIS DOCUMENT IS THE SOLE RESPONSIBILITY OF THE WALL DESIGN ENGINEER OF RECORD. FINAL PROJECT DESIGNS, INCLUDING ALL CONSTRUCTION DETAILS, SHALL BE PREPARED BY A NEW HAMPSHIRE LICENSED PROFESSIONAL ENGINEER USING THE ACTUAL CONDITIONS OF THE PROPOSED SITE.



FITTING.

BLOCKS.

5.





MULTI-FAMILY DEVELOPMENT PORTSMOUTH BLVD, PORTSMOUTH,

APRIL 23, 2025

Project Site Location

PLANNING BOARD SUBMISSION

PLANNING BOARD SUBMISSION

Explore Underground Parking to Improve Site Design

Establish Additional Usable Open Space

2025 **3**

APR

PLANNING BOARD SUBMISSION

Tidemark

SYMBOL LEGEND:

(c

D

F

G

Enhanced Open Space **Between Buildings**

Extended Landscape in Front of Building

Extension of Building A to Break up Parking & Create a Improved Entry

Additional Green Buffers within Parking Area

New Landscape Amenity Trail Network / Scenic **Highpoint View**

Neighborhood Connectivity

Creation of Underground Parking Extending at **Building C, Removing** the need for Structured Parking within the Parking Area

PLANNING BOARD SUBMISSION

Tidemark

| BUILDING A | | | |
|------------------|--------------------|-------|--------|
| UNIT TYPE | AVG UNIT SIZE (sf) | COUNT | UNIT % |
| STUDIO UNIT | 499 | 23 | 21.7% |
| ONE BEDROOM UNIT | 749 | 40 | 37.7% |
| TWO BEDROOM UNIT | 1,100 | 43 | 40.6% |
| SUB-TOTALS | | 106 | |

| BUILDING B | | | |
|------------------|--------------------|-------|--------|
| UNIT TYPE | AVG UNIT SIZE (sf) | COUNT | UNIT % |
| STUDIO UNIT | 499 | 10 | 18.2% |
| ONE BEDROOM UNIT | 749 | 25 | 45.5% |
| TWO BEDROOM UNIT | 1,100 | 20 | 36.4% |
| SUB-TOTALS | | 55 | |

| BUILDING C | | | |
|------------------|--------------------|-------|--------|
| UNIT TYPE | AVG UNIT SIZE (sf) | COUNT | UNIT % |
| STUDIO UNIT | 499 | 12 | 10.6% |
| ONE BEDROOM UNIT | 749 | 59 | 52.2% |
| TWO BEDROOM UNIT | 1,100 | 42 | 37.2% |
| SUB-TOTALS | | 113 | |

| BUILDINGS A, B, C COMBINED | | | | | |
|---|--------|-----|-------|--|--|
| AVG UNIT SIZE (sf) TOTAL COUNT OVERALL UNIT % | | | | | |
| STUDIO UNIT | 499 | 45 | 16.4% | | |
| ONE BEDROOM UNIT | 749 | 124 | 45.3% | | |
| TWO BEDROOM UNIT | 1,100 | 105 | 38.3% | | |
| GRAND TOTALS | 837 sf | 274 | | | |

| REQUIRED PARKING | | PROVIDE | PROVIDED PARKING | |
|------------------|-----|-----------------|------------------|--|
| TENANT PARKING | 283 | SURFACE PARKING | 252 | |
| VISITOR PARKING | 55 | GARAGE PARKING | 49 | |
| GRAND TOTAL | 338 | GRAND TOTAL | 301 | |

Proposed Site Section

Site Section Diagrams

PLANNING BOARD SUBMISSION

6

Landscape Area vs Parking / Building Area Site Comparison

Previous 03/06 Planning Board Site Plan

Current Proposed Site Plan

PLANNING BOARD SUBMISSION

Open Space Area Current Site Plan

PLANNING BOARD SUBMISSION

59.5% OPEN SPACE

OPEN SPACE = 216,820sf SITE AREA = 364,581sf

8

23

Letter of Authorization Dunlin Way & Portsmouth Boulevard, Portsmouth Map 213 Lot 12

The undersigned owner and applicant of the above-referenced property hereby authorize representatives of Tighe & Bond, Inc. to represent their interests, and to submit any and all materials related thereto on their behalf for any local and state permitting applications solely in connection with the multifamily development thereof.

Brora, LLC

By:

Name: Jernifer Stebbins Thomas Title: Manager

The Kane Company

By:

Name: Kimery Poldrack

Title: SVP Development & Construction

Date:

4/21/2025

Date:

4/21/225

(K0076-065 (auth form).docx)