Bid Documents April 1, 2020

DISCOVERY CLASSROOM **CONSTRUCTION DOCUMENTS OWNER**:

BRUNSWICK SCHOOL DEPARTMENT

ARCHITECT:



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| Sheet Number | Sheet Name | | |
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| A700 | CASEWORK DETAILS | | |
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| | | | |
| | | | |
| 0-2 | | | |
| Electrical | | | |
| E101 | FIRST FLOOR ELECTRICAL POWER | | |
| E102 | FIRST FLOOR LIGHTING | | |
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| M101 | FIRST FLOOR MECHANICAL | | |
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| M201 | | | |
| M301 | MECHANICAL SCHEDULES LEGEND AND DETAILS | | |
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| DC-S1.1 | FOUNDATION PLAN, SECTION & DETAILS | | |
| DC-S1 2 | ROOF FRAMING PLAN, BRACED FRAME ELES & SECTIONS | | |

75 Jordan Ave, Brunswick, ME 04011

CHA Project No. 17078

KATE FURBISH ELEMENTARY SCHOOL DISCOVERY CLASSROOM 75 JORDAN AVENUE BRUNSWICK, MAINE 04011 REVISION 3 - FEBRUARY 25, 2020

OWNER: TOWN OF BRUNSWICK SCHOOL DEPARTMENT 46 FEDERAL STREET, BRUNSWICK, MAINE 04011

ARCHITECT: CHA ARCHITECTURE 49 DARTMOUTH STREET, PORTLAND, MAINE 04101

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SHEET INDEX:

| SHEET | DESCRIPTION |
|--------|----------------------------|
| 1 OF 3 | COVER SHEET |
| 2 OF 3 | SITE LAYOUT & UTILITY PLAN |
| 3 OF 3 | SITE CIVIL DETAILS I |

THE PROPERTY SHOWN ON THE APPROVED SITE PLAN MAY BE DEVELOPED AND USED ONLY AS SHOWN ON THE PLAN. ALL ELEMENTS AND FEATURES OF THE PLAN AND ALL REPRESENTATIONS MADE BY THE APPLICANT WHICH APPEAR IN THE RECORD OF THE PLANNING BOARD PROCEEDINGS ARE CONDITIONS OF APPROVAL. NO CHANGE FROM THE CONDITIONS OF APPROVAL IS PERMITTED UNLESS AN AMENDED STE PLAN IS APPROVED BY THE PLANNING BOARD.



| KATE | FURBISH EL | EMENTARY SO | CHOOL | |
|--|----------------|-------------------------|-----------------------|---------------|
| DISCOVER | RY CLASSRO | | SUMMARY | |
| | | | | |
| THE PROJECT IS LOCATED ENTIF | RELY WITHIN TI | HE GR8 ZONE SCH | IOOL IS A PERMIT | TED USE IN TH |
| THE PROJECT SITE COMPRISES N 17.10 ACRES+/- | MAP UO6, LOT | 5 AND MAP 54, LC | DT 14 - THE TOTAI | SITE AREA IS |
| DI | STRICT DIMEN | SIONAL STANDA | RDS | |
| STANDARD | REQUIRED | APPROVED SCHOOL PLAN | CLASSROOM ADDITION | COMBINED |
| MIN. LOT WIDTH | 65FT | >800FT | >800FT | >800FT |
| FRONT SETBACK | 20FT | 128.3FT | 292.2FT | 128.3FT |
| REAR SETBACK | 20FT | 29.7FT | 75.9FT | 29.7FT |
| SIDE SETBACK | 15FT | 177.8FT | 347.0FT | 177.8FT |
| IMPERVIOUS COVERAGE | 35% | 26.8% | 0.2% | 27.0% |
| BUILDING HEIGHT | 35 FT | <35FT | <35FT | <35FT |
| BUILDING FOOTPRINT (MAX. PER STRUCTURE) | 5,000SF | 70,900SF+/-* | 1,156SF | 70,900SF+/-* |
| * THE PROJECT SITE HAS AN EXI | SITNG NON-CC | ONFORMING | | |

* THE PROJECT SITE HAS AN EXISITING NON-CONFORMING STRUCTURE - THIS PROJECT HAS RECEIVED A SPECIAL PERMIT FOR EXPANSION OF A NON-CONFORMING BUILDING FOOTPRINT, I IN ACCORDANCE WITH SECTION 5.2.4. OF THE ZONING ORDINANCE



ISSUED FOR

BID



S:\17-035 Jordan Acres School\Drawings\17-035 BASE DISCOVERY.dwg

| 2-25-20 | REVISED BUILDING LOCATION |
|----------|----------------------------------|
| 09-30-19 | ADDED GAS SERVICE |
| 08-29-19 | REVISED PER STAFF REVIEW COMMENT |
| DATE | DESCRIPTION |
| | DEVISIONS |

| 5 | | 4 |
|---|------|---|
| | INTE | RIOR GENERAL NOTES |
| GENERAL DOOR AND WINDOW NOTES | | MON GENERAL NOTED |
| 1. AT EXTERIOR WALLS AND MASONRY WALLS, COAT THE INSIDE OF ALL HOLLOW METAL FRAMES WITH BITUMINOUS COATING. | 1. | All mounting heights and clearances at Toilet rooms and elsewhere shall latest version of the ADA Accessibility Guidelines (ADAAG). |
| 2. FILL ALL INTERIOR HOLLOW METAL FRAMES ADJACENT TO MASONRY WITH MORTAR. | | Barrier-Free clearances are given. These <u>clear</u> dimensions sha in cases of discrepancy. |
| 3. PACK MINERAL-FIBER INSULATION IN ALL INTERIOR HOLLOW METAL FRAMES IN STUD WALLS. | | All dimensions given for fixture and accessory locations are <u>clea</u> from finished surfaces, unless noted otherwise. Coordinate actu with wall construction and finishes. |
| 4. FILL ALL EXTERIOR METAL DOOR FRAMES WITH LOW-EXPANSION SPRAY-FOAM INSULATION. | | Locate all controls, flush valves, shutoffs and similar items in ac the latest version of the ADA Accessibility Guidelines (ADAAG). |
| 5. REFER TO SPECIFICATIONS FOR LOCATIONS OF TEMPERED, LAMINATED, WIRED, AND INSULATING GLASS. | | A range of mounting heights may be given for some items. Main mounting height, within the given range, throughout the Project, |
| 6. AT DOOR, WINDOW AND LOUVER OPENINGS IN EXTERIOR WALLS WITH MASONRY VENEER PROVIDE METAL PAN FLASHING AT HEADS UNLESS NOTED | | otherwise. |
| OTHERWISE. | 2. | Install blocking behind all surface-applied fixtures, trim, grab bars, shelve picture rails, base moldings, tack or marker boards, window treatment, w |
| 7 PROVIDE METAL RAIN HOOD AT ALL EXTERIOR HOLLOW METAL FRAMES | | cabinets or counters, and miscellaneous accessories mounted on stud w |

PROVIDE METAL RAIN HOOD AT ALL EXTERIOR HOLLOW METAL FRAMES. PROVIDE DOOR STOPS TO PROTECT WALLS AT ALL LOCATIONS WHERE A **4**. DOOR SWING WILL STRIKE THE WALL.

9. ALL EXTERIOR DOORS SHALL HAVE WEATHER STRIPPING, THRESHOLDS, AND SHALL BE INSTALLED WEATHERTIGHT.

PROJECT GENERAL NOTES

THESE GENERAL NOTES ARE INTENDED TO COMPLIMENT THE CONTRACT DOCUMENTS, REFER TO THE CONTRACT DOCUMENTS FOR DETAILED INFORMATION AND ADDITIONAL REQUIREMENTS.

2. ALL WORK INCLUDED IN THIS CONTRACT SHALL CONFORM TO ALL FEDERAL, STATE, AND LOCAL LAWS, STATUTES, ORDINANCES, CODES, RULES AND REGULATIONS, OR LAWFUL ORDERS OF PUBLIC AUTHORITY. PROMPTLY REPORT ANY NONCONFORMITY DISCOVERED TO THE ARCHITECT.

THE INTENT OF THE CONTRACT DOCUMENTS IS TO INCLUDE ALL ITEMS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF WORK BY THE CONTRACTOR AND TO PROVIDE A COMPLETE, FULLY OPERATIONAL BUILDING. PROVIDE ALL LABOR, MATERIALS AND INCIDENTALS NECESSARY TO ACHIEVE THIS INTENT.

4. FAILURE OF THE DRAWINGS OR SPECIFICATIONS TO INDICATE EACH INCIDENTAL SHALL NOT RELIEVE THE CONTRACTOR FROM PROVIDING THE NECESSARY ITEMS AS PART OF THIS CONTRACT. THE DRAWINGS SHOW THE DESIGN, LOCATION, DESCRIBE THE QUALITY LEVEL AND CONSTRUCTION TECHNIQUES IN A GENERAL SENSE ONLY.

ALL DETAILS ARE TYPICAL. WHAT IS SHOWN IN ONE CONDITION APPLIES TO ALL OTHER SIMILAR CONDITIONS, UNLESS NOTED OTHERWISE.

6. VERIFY THE FOLLOWING ITEMS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO PROCEEDING WITH WORK, AND PROCEED WITH THE WORK ONLY AFTER SUCH DISCREPANCIES ARE RESOLVED:

- EXISTING CONDITIONS •
- WALLS, FLOORS, ROOFS, AND SUBSTRATES WHERE PRODUCTS AND • SYSTEMS ARE TO BE INSTALLED.
- SIZE AND CONDITION OF WINDOW, DOOR, LOUVER, AND OTHER OPENINGS WHERE PRODUCTS AND SYSTEMS ARE TO BE INSTALLED.
- THE EXISTENCE, SIZE, AND LOCATION OF ALL EXISTING UTILITIES,
- MECHANICAL AND ELECTRICAL SYSTEMS. DISCREPANCIES BETWEEN OR WITHIN THE CONTRACT DOCUMENTS.
- UNSUITABLE SOILS: REPORT THE LOCATION OF ALL UNSUITABLE SOIL MATERIALS BELOW ANTICIPATED LEVELS OF FOOTINGS OR SLABS PRIOR
- TO SETTING FORMS. MECHANICAL, ELECTRICAL AND PLUMBING WHICH IMPACT CEILING • INSTALLATION HEIGHTS OR BUILDING THE APPEARANCE.
- DIMENSIONAL DISCREPANCIES.
- COORDINATE THE WORK OF ALL SUBCONTRACTORS. 7.

8. DO NOT PENETRATE STRUCTURAL BEAMS, COLUMNS, OR SHEAR WALLS UNLESS SPECIFICALLY DETAILED OTHERWISE.

PROVIDE BOND-OUTS, BLOCKING, SLEEVES AND PIPES AS REQUIRED FOR ALL WALL, FLOOR, ROOF, AND CEILING PENETRATIONS. MAINTAIN CONTINUITY OF FIRE RATED ASSEMBLIES AND SMOKE ASSEMBLIES. SEAL ALL PENETRATIONS TO CONFORM TO U.L. RATED ASSEMBLIES AND ALL NFPA AND IBC REQUIREMENTS. REFER TO THE CODE PLANS FOR ADDITIONAL CODE REFERENCES.

ALL PENETRATIONS SHALL COMPLY WITH THE ACOUSTICAL ASSEMBLY RATING REQUIRED FOR EACH WALL OR FLOOR ASSEMBLY.

10. COORDINATE THE WORK TO ACHIEVE THE GIVEN VISUAL AND PERFORMANCE REQUIREMENTS OF MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS WITHIN THE INDICATED SPACE.

11. PROVIDE WORK HOLES OR ADEQUATE ACCESS AS REQUIRED TO INSTALL NEW SYSTEMS IN CONCEALED SPACES.

12. PRODUCTS SHALL BEAR UL CLASSIFICATION WHERE REQUIRED BY DESIGN. DO NOT REMOVE OR PAINT OVER UL CLASSIFICATIONS.

13. DEFINITIONS:

NEW: INDICATES ITEMS THAT SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACT. TYPICALLY USED TO ENSURE CLARITY BETWEEN VARIOUS COMPONENTS OF THE DRAWINGS. NOT ALL ITEMS ARE LABELED AS "NEW" WHEN IT IS OBVIOUS BY OTHER INDICATION.

- **EXISTING:** EXISTING BUILDING OR SITE COMPONENTS WHICH ARE IN PLACE AT THE START OF CONSTRUCTION. NOT ALL ITEMS ARE LABELED AS "EXISTING" WHEN IT IS OBVIOUS BY OTHER INDICATION. **REPAIR:** RESTORE TO SUITABLE OR APPROPRIATE OPERATING AND
- AESTHETIC CONDITION. **RESTORE:** BRING BACK TO FORMER CONDITION, BY REPAIRING OR
- PATCHING AS REQUIRED.
- **PATCH:** RESTORE TO CONDITION MATCHING EXISTING ADJACENT CONSTRUCTION, SURFACE TEXTURE AND FINISH.
- N.I.C. (NOT IN CONTRACT): WORK WHICH IS NOT INCLUDED IN THIS CONTRACT, BUT WHICH MAY REQUIRE CONTRACTOR COORDINATION.
- **REMOVE:** DISMANTLE AND/OR EXTRACT FROM THE PREMISES ENTIRELY. DISPOSE OF OFF OF THE SITE UNLESS NOTED OTHERWISE. **REPLACE:** DISMANTLE AND/OR EXTRACT FROM THE PREMISES
- ENTIRELY. DISPOSE OF OFF OF THE SITE UNLESS NOTED OTHERWISE. PROVIDE NEW MATERIAL AS INDICATED.
- **DAMAGES:** EXISTING BUILDING OR SITE COMPONENTS, NOT SCHEDULED FOR WORK, WHICH ARE DAMAGED. SUCH ELEMENTS AND COMPONENTS SHALL BE REPLACED OR RESTORED TO ORIGINAL CONDITION BY METHODS APPROVED BY THE ARCHITECT.
- **DEMOLISH:** DISMANTLE AND/OR EXTRACT FROM THE PREMISES ENTIRELY. DISPOSE OF OFF OF THE SITE UNLESS NOTED OTHERWISE. SALVAGE: REMOVE AND REINSTALL OR REMOVE AND DELIVER TO THE OWNER, AS INDICATED. SALVAGED COMPONENTS MAY BE FOR LIMITED REUSE, TO

MATCH EXISTING CONDITIONS OR TO PATCH AND REPAIR AS INDICATED.

- e actual dimensions
- ۹AG).

- Install coat hooks at doors and walls.
- Install transition strips between dissimilar flooring materials.
- All wood not indicated to be painted shall be natural finish (clear).
- All grab bar components shall be able to withstand a horizontal load of 250lbs at any point.

ROOF GENERAL NOTES

PROTECT ALL OPENINGS CUT IN THE ROOF. PROVIDE TEMPORARY ROOFING IF WORK IS TO BE UNFINISHED DURING ADVERSE WEATHER CONDITIONS THROUGHOUT T CONSTRUCTION PHASE.

2. PROVIDE FLASHING AT ALL ROOF PENETRATIONS. PENETRATIONS MAY NOT BE INDICATED ON THE ROOF PLAN. REFER TO STRUCTURAL, MECHANICAL AND ELECTRICAL PLANS FOR NUMBER, LOCATION, AND SIZE OF PENETRATIONS.

PROVIDE A 2 FEET WIDE WALKWAY WITH PROTECTION STRIPS ENTIRELY AROUNI 3. ALL ROOF TOP MECHANICAL UNITS AND CREATE A PROTECTION STRIP PATHWAY, 2 FEET WIDE, FROM THE ROOF ACCESS LOCATION(S) TO EACH MECHANICAL UNIT.

- PROTECT ROOFING MATERIALS FROM CONSTRUCTION OPERATIONS. 4
- PROVIDE CURBS AND PRESSURE TREATED WOOD BLOCKING AS REQUIRED FOR ALL ROOF MOUNTED EQUIPMENT, UNLESS NOTES OTHERWISE.

VERTICAL CIRCULATION GENERAL NOTES

ALL HANDRAIL AND GUARDRAIL COMPONENTS SHALL BE ABLE TO WITHSTAND A HORIZONTAL LOAD OF 250 POUNDS AT ANY POINT.

2. GUARDRAILS SHALL NOT ALLOW THE PASSAGE OF A 4-INCH SPHERE BETWEEN MEMBERS.

3. ALL RAMP, STAIR, LADDER, ALTERNATING TREAD DEVICE, HANDRAIL AND GUARDRAIL COMPONENTS SHALL COMPLY WITH THE APPLICABLE PROVISIONS OF THE LATEST VERSION(S) IBC, NFPA 101, AND THE ADA.

GENERAL PATCHING AND REPAIRING NOTES

WHERE NEW CONSTRUCTION EITHER INFILLS OR ABUTS EXISTING CONSTRUCTION, THE FINISHED FACES SHALL ALIGN, AND THE SURFACES SHALL BE FINISHED TO MATCH.

AFTER CUTTING, FITTING, OR REMOVAL OF BUILDING COMPONENTS, ANY RESULTING HOLES SHALL BE PATCHED. SUCH PATCHES SHALL BE FLUSH WITH ADJACENT SURFACES AND FINISHED TO MATCH.

MAINTAIN FIRE RATINGS, SMOKE RATINGS, AND ACOUSTICAL RATINGS. 3.

PROVIDE METAL COVER PLATES AT ALL ABANDONED ELECTRICAL DEVICES, FINISHED TO MATCH WALL.

GENERAL DEMOLITION AND REMOVAL NOTES

THE DEMOLITION DRAWINGS PROVIDE GENERAL COORDINATION INFORMATION ONLY, AND ARE SCHEMATIC IN NATURE. THEY DO NOT IDENTIFY ALL INDIVIDUAL ITEMS TO BE REMOVED. REMOVE ANY EXISTING CONSTRUCTION WHICH IS IN THE WAY OF NEW CONSTRUCTION OR PROHIBITS THE NEW CONSTRUCTION.

2. VERIFY EXISTING STRUCTURAL CONDITIONS PRIOR TO DEMOLITION OR REMOVALS PROTECT FROM DAMAGE AND WEATHER ANY EXISTING BUILDING COMPONENTS, WHICH ARE EXPOSED AS A RESULT OF DEMOLITION OR

REMOVALS. 4. COORDINATE AND SCHEDULE ALL WORK IN EXISTING OCCUPIED PORTIONS OF THE BUILDING WITH THE OWNER.

5. NOTIFY THE ARCHITECT AND OWNER IMMEDIATELY UPON DISCOVERY OF POTENTIALLY HAZARDOUS MATERIAL OR SUBSTANCE NOT ADDRESSED IN THE CONTRACT DOCUMENTS, INCLUDING BUT NOT LIMITED TO ASBESTOS, PCB, LEAD, MERCURY, AND MOLD. DO NOT DISTURB HAZARDOUS MATERIALS. HAZARDOUS MATERIAL SHALL BE LEGALLY ABATED, TRANSPORTED, AND DISPOSED OF.

6. CONCRETE SLAB REMOVALS MAY BE REQUIRED THROUGHOUT THE EXISTING BUILDING AND MAY NOT BE SHOWN ON THE DEMOLITION DRAWINGS. COORDINATE THE EXTENT OF SLAB REMOVALS WITH STRUCTURAL, MECHANICAL AND ELECTRICAL PLANS. CUT TRENCHES IN EXISTING CONCRETE FLOORS WITH NO MORE THAN A 1:2 SLOPE. PROVIDE AN UNDER-SLAB VAPOR RETARDER AT SLABS ON GRADE. REFER TO STRUCTURAL DRAWINGS FOR REINFORCEMENT REQUIREMENTS. PATCH CONCRETE TO MATCH ADJACENT THICKNESS AND FINISH PRIOR TO THE INSTALLATION OF UNDERLAYMENT OR NEW FINISHES.

REMOVAL OF MATERIALS SHALL BE DONE WITHOUT DISTURBING ADJACENT SURFACES OR THE CURRENT CONDITION OF OTHER BUILDING ELEMENTS INTENDED TO REMAIN.

8. THE OWNER SHALL REMOVE FURNITURE AND OTHER MOVABLE AND/OR FIXED EQUIPMENT PRIOR TO NEW WORK IN ANY AREA, EXCEPT FOR MECHANICAL, ELECTRICAL OR MINOR WORK NOT REQUIRING THE OWNER TO COMPLETELY VACATE THE PREMISES. NOTIFY THE OWNER OF THE SCHEDULE FOR NEW WORK AND EXTENT OF OWNER REMOVALS NECESSARY.

9. REMOVE ALL DAMAGED AND/OR DISCARDED BUILDING CONSTRUCTION MATERIAL FROM CONCEALED SPACES. PRIOR TO CLOSING- OR SEALING-OFF CONCEALED SPACES, THE CONTRACTOR SHALL ALLOW FOR AN INSPECTION OF COMPONENTS WHICH WILL NOT BE VISIBLE WHEN THE SPACES HAVE BEEN SEALED.

10. ALL DEMOLITION/REMOVAL DEBRIS IS THE PROPERTY OF THE CONTRACTOR, UNLESS NOTED OTHERWISE, AND SHALL BE LEGALLY DISPOSED

is shall be maintained

e <u>clear</u> dimensions

in accordance with Maintain a consistent

oject, unless noted helves, chair rails,

ent, wall or base stud walls.

CEILING NOTES

CEILING PLANS DO NOT SHOW EVERY FIXTURE OR COMPONENT. REFER TO ELECTRICAL, PLUMBING, MECHANICAL AND STRUCTURAL DRAWINGS FOR EXTENT OF ALL CEILING PENETRATIONS AND INSTALLATIONS AND COORDINATE PRIOR TO INSTALLATION.

CENTER GRID LAYOUT IN ALL ROOMS UNLESS NOTED OTHERWISE.

ALL COMPONENTS MOUNTED IN OR BELOW A SUSPENDED ACOUSTIC CEILING SHALL BE CENTERED IN THE CEILING TILE OR IN THE 2X2 PORTION OF TEGULAR CEILING TILES, UNLESS NOTED OTHERWISE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, LIGHT FIXTURES, DIFFUSERS, SPEAKERS, SMOKE DETECTORS, AND SPRINKLER HEADS.

4. PRIOR TO THE INSTALLATION OF CEILINGS, ALLOW FOR AN ABOVE-CEILING INSPECTION OF COMPONENTS THAT WILL NOT BE VISIBLE WHEN THE CEILINGS HAVE BEEN INSTALLED, INCLUDING INSPECTION OF FIRE, SMOKE, AND ACOUSTICAL SEPARATIONS.

GENERAL ARCHITECTURAL NOTES

THE DRAWINGS USE A SYSTEM OF KEYED NOTES ON PLANS, ELEVATIONS AND DETAILS. INSTRUCTIONS FOR SPECIFIC COMPONENTS OF THE WORK ARE KEYED TO THE DRAWINGS. BUILDING SYSTEMS (PARTITIONS, ROOF & FOUNDATION) ARE KEYED TO FLOOR PLANS, WALL SECTIONS, ROOF PLAN AND OTHER DETAILS AS APPROPRIATE.

2. MAINTAIN MINIMUM MANEUVERING CLEARANCES AT DOORS IN COMPLIANCE WITH THE ADA ACCESSIBILITY GUIDELINES (ADAAG), INCLUDING BUT NOT LIMITED TO THE FOLLOWING EXCERPT FROM 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN: 404.2.4.1 Swinging Doors and Gates. Swinging doors and gates shall have maneuvering

clearances complying with Table 404.2.4.1.

| Туре | Type of Use | | vering Cleara |
|---|--|----------------------------------|---|
| Approach Direction | Door or Gate Side | Perpendicular to Doorway | Parallel to I (beyond la unless n |
| From front | Pull | 60 inches (1525 mm) | 18 inches (4 |
| From front | Push | 48 inches (1220 mm) | 0 inches (|
| From hinge side | Pull | 60 inches (1525 mm) | 36 inches (|
| From hinge side | Pull | 54 inches (1370 mm) | 42 inches (1 |
| From hinge side | Push | 42 inches (1065 mm) ² | 22 inches (5 |
| From latch side | Pull | 48 inches (1220 mm) ⁴ | 24 inches (|
| From latch side | Push | 42 inches (1065 mm) ⁴ | 24 inches (|
| 1. Add 12 inches (305 r 2. Add 6 inches (150 m | nm) if closer and latch are pr m) if closer and latch are pro | ovided. vided. | |

BARRIER-FREE CLEARANCES ARE GIVEN. THESE CLEAR DIMENSIONS SHALL BE MAINTAINED IN CASES OF DISCREPANCY.

- ALL DIMENSIONS GIVEN FOR FIXTURE AND ACCESSORY LOCATIONS ARE • CLEAR DIMENSIONS FROM FINISHED SURFACES, UNLESS NOTED OTHERWISE. COORDINATE ACTUAL DIMENSIONS WITH WALL CONSTRUCTION AND FINISHES.
- LOCATE ALL CONTROLS, FLUSH VALVES, SHUTOFFS AND SIMILAR ITEMS IN ACCORDANCE WITH THE LATEST VERSION OF THE ADA ACCESSIBILITY GUIDELINES (ADAAG).
- SOME ITEMS MAY INDICATE A RANGE IN MOUNTING HEIGHT. MAINTAIN A • CONSISTENT MOUNTING HEIGHT, WITHIN THE GIVEN RANGE, THROUGHOUT THE PROJECT, UNLESS NOTED OTHERWISE.
- MAINTAIN CLEAR DIMENSIONS IN ACCORDANCE WITH THE LATEST 4 VERSION OF THE ADA ACCESSIBILITY GUIDELINES (ADAAG).

5. ALL GRAB BAR COMPONENTS SHALL BE ABLE TO WITHSTAND A LOAD OF 250LBS AT ANY POINT.

INSTALL BLOCKING BEHIND ALL SURFACE-APPLIED FIXTURES, TRIM, GRAB BARS, SHELVES, CHAIR RAILS, PICTURE RAILS, BASE MOLDINGS, TACK OR MARKER BOARDS, WINDOW TREATMENT, WALL OR BASE CABINETS OR COUNTERS, AND MISCELLANEOUS ACCESSORIES MOUNTED ON STUD WALLS.

 ALL EXPOSED WOOD NOT INDICATED TO BE PAINTED SHALL BE NATURAL FINISH (CLEAR).

8. FLOORING AND FLOOR FINISHES SHALL BE INSTALLED TO A MAXIMUM DIFFERENTIAL OF 1/16" BETWEEN DISSIMILAR MATERIALS. PROVIDE TRANSITION STRIPS OR THRESHOLDS (1/2" MAXIMUM) OF SAME MATERIAL AS FLOORING AND/OR AS NOTED ON THE DRAWINGS. BETWEEN DISSIMILAR FLOORING MATERIALS

9. PATCH AND LEVEL EXISTING SUBFLOORS TO RECEIVE NEW FLOOR FINISHES AS INDICATED IN THE ROOM FINISH SCHEDULE.

10. ALL EXPOSED PIPES UNDER LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT.

3

11. INSTALL 2 COAT HOOKS CENTERED ON THE INSIDE OF SINGLE USER TOILET ROOM DOORS, MOUNTED AT 48"AFF AND 60"AFF.

ABBREVIATIONS

2

| AB AB | ANCHOR BOLT | JT KIT |
|--|--|---|
| | AIR CONDITIONING | LAB |
| ADDL ADJ | ADDITIONAL ADJUSTABLE | |
| | | LB |
| AH . | AIR HANDLER | LF |
| AIB Alt | AIR INFILTRATION BARRIER ALTERNATE | LH LOC'N |
| | | LW MAS |
| APPROX | APPROXIMATE | MATL |
| | ARCHITECT(URAL) | MAX MC |
| VB | AIR/VAPOR BARRIER | MCWF |
| AWP SD | ACOUSTICAL WALL PANEL | MDO MECH |
| 3F | BARRIER FREE | MED |
| BIT BLDG | BITUMINOUS BUILDING | MFR |
| BLKG | BLOCKING | МН |
| SM BOT | BOTTOM | MISC |
| BO REK | BOTTOM OF BRICK | MLDG MO |
| BRG | BEARING | MR |
| B/S BSMT | BRICK SHELF BASEMENT | MRGB MS |
| C, CRS | COURSE | MSF |
| CAB CB | CABINE I CATCH BASIN | N |
| C SE | CENTER TO CENTER | |
| SFMF | COLD FORMED METAL FRAMING | NO |
|) L | CONTROL JOINT CENTERLINE | NOM NRC |
| LG | CEILING | NTS |
| CR CMT | CLEAR CERAMIC MOSAIC TILE | 0/ OC |
| CMU | CONCRETE MASONRY UNIT | OD OES |
| COL | COLUMN | OP |
| | | OH OPH |
| CONT | CONTINUOUS OR CONTINUE | OPNG |
| ONTR | CONTRACTOR CARPET | OPP OPS |
| S | COUNTERSINK | P, PTD |
| CSMT CT | CASEMENT CERAMIC TILE | PC PERF |
| WT | CERAMIC WALL TILE | PERIM |
| CUH CY | CABINET UNIT HEATER CUBIC YARD | PRKG PL |
| DBL | DOUBLE | |
| DEMO | DISPLAY CASE DEMOLISH, DEMOLITION | PSF |
| | | PSI PT |
| DIA, DIAM DIM | DIMENSION | PTD |
| DIV MP | DIVISION DEMOLINTABLE PARTITION | PTN PVC |
| DN | DOWN | PVMT |
| DR DTL | DOOR DETAIL | QR QT |
| WG | DRAWING | RE: |
| OWR | DRAWER | REF |
| | EAST | REQ'D |
| A | EAST EACH | REQ'D REV |
| e A F MHO | EAST EACH EXHAUST FAN ELECTRO MAGNETIC HOLD OPEN | REQ'D REV RL RF |
| A F MHO IFS | EAST EACH EXHAUST FAN ELECTRO MAGNETIC HOLD OPEN EXTERIOR INSULATION FINISH SYSTEM | REQ'D REV RL RF RH RM |
| E A EF EMHO EIFS EJ EL | EAST EACH EXHAUST FAN ELECTRO MAGNETIC HOLD OPEN EXTERIOR INSULATION FINISH SYSTEM EXPANSION JOINT ELEVATION | REQ'D REV RL RF RH RM RO |
| E A E E E E E E E E E E E E E E E E E E | EAST EACH EXHAUST FAN ELECTRO MAGNETIC HOLD OPEN EXTERIOR INSULATION FINISH SYSTEM EXPANSION JOINT ELEVATION EPOXY PAINT FL ECTRICAL | REQ'D REV RL RF RH RM RO ROW S |
| E A E MHO E IFS J E E E E E E E E E E E E E E E | EAST EACH EXHAUST FAN ELECTRO MAGNETIC HOLD OPEN EXTERIOR INSULATION FINISH SYSTEM EXPANSION JOINT ELEVATION EPOXY PAINT ELECTRICAL ELEVATOR | REQ'D REV RL RF RH RM RO ROW S SAT |
| A A F MHO IFS J L P LEC LEV MER MER | EAST EACH EXHAUST FAN ELECTRO MAGNETIC HOLD OPEN EXTERIOR INSULATION FINISH SYSTEM EXPANSION JOINT ELEVATION EPOXY PAINT ELECTRICAL ELEVATOR EMERGENCY ENCLOSED/ENCLOSURE | REQ'D REV RL RF RH RM RO ROW S SAT SC SCHED |
| A A A A A A A A A A A A A A A A A A A | EAST EACH EXHAUST FAN ELECTRO MAGNETIC HOLD OPEN EXTERIOR INSULATION FINISH SYSTEM EXPANSION JOINT ELEVATION EPOXY PAINT ELECTRICAL ELEVATOR EMERGENCY ENCLOSED/ENCLOSURE EQUAL | REQ'D REV RL RF RH RO ROW S SAT SC SCHED SD SECT |
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| | MATERIALS LEGEND | | |
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| JOINT KITCHEN LABORATORY LAMINATE (D) | GRAVEL | | ARCHITECTURE |
| LAVATORY POUND (S) LEAD COATED COPPER LINEAR FOOT | CONCRETE MASONRY UNIT | | 49 DARTMOUTH STREET PORTLAND, MAINE 04101 |
| LOCATION LIGHTWEIGHT (CMU) MASONRY MATERIAL | BRICK | D | 207-775-1059 www.pdtarchs.com |
| MAXIMUM MEDICINE CABINET MULTI COLOR WALL FINISH MEDIUM DENSITY OVERLAY MECHANICAL | CONCRETE | | COPYRIGHT CHA Architects Reuse or reproduction of the |
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| MISCELLANEOUS MOULDING, MOULDING MASONRY OPENING MOISTURE RESISTANT MOISTURE RESISTANT GYPSUM BOARD | STEEL | | |
| MOP SINK METAL STUD FRAMING METAL NORTH | WOOD FRAMING | | |
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| PAPER TOWEL DISPENSER PARTITION POLYVINYL CHLORIDE PAVEMENT QUARTER ROUND QUARRY TILE REFERENCE | Room name | | COVEF n Ave, |
| REFRIGERATOR REQUIRED REVISION (S), REVISED RAIN LEADER RUBBER FLOOR RIGHT HAND | 150 SF DOOR TAG | | DIS Jorda |
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| SCHEDULE STORM DRAIN, SOAP DISPENSER SECTION SQUARE FOOT SAFETY GLASS | I 123 SPECIALTY EQUIPMENT\ TOILET ACCESSORY TAG | | |
| SHOWER SHEET SHEATHING SIMILAR | 1i CASEWORK TAG | В | |
| SEALANT SANITARY NAPKIN RECEPTOR SPECIAL PAINT SPECIFICATION SPEAKER SQUARE | BUILDING SECTION | | |
| STAINLESS STEEL SOUND TRANSMISSION CLASS STANDARD STEEL STORAGE | 1 WALL SECTION | | |
| STRUCTURAL STRUCTURE/STRUCTURAL SUPPORT SUSPENDED SHEET VINYL | 1 SIM PLAN OR SECTION DETAIL | | |
| FOILET FOWEL BAR FACKBOARD FONGUE AND GROOVE FEMPERED GLASS | 1 A101 SIM EXTERIOR ELEVATION | | JOB NO. 17078 |
| THICK(NESS) TOP OF TOILET PARTITION TOILET PAPER DISPENSER TELEVISION | A41.1 - | | Checker SCALE: |
| TYPICAL UNDER COUNTER REFRIGERATOR UNLESS NOTED OTHERWISE VAPOR BARRIER/VINY BASE VALVE CABINET VINYL COMPOSITION TILE | 1 FLOOR LEVEL\VERTICAL ELEVATION | | As indicated ISSUE 4/1/2020 |
| VERTICAL VENEER PLYWOOD VINYL WALL COVERING WEST WITH WATER CLOSET | | A | TITLE GENERAL NOTES |
| WOOD WIRE GLASS WATER HEATER WITHOUT WATERSTOP | FIRE RATINGS | | & MATERIAL LEGEND |
| WATERPROOF WELDED WIRE FABRIC WELDED WIRE MESH YARD | SMOKE | | SHEET |
| | 2 HOUR FIRE RATED PARTITION | | AUU1 |









4

WALL SYSTEMS

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1. REFER TO STRUCTURAL DRAWINGS FOR NOTES ON MASONRY REINFORCEMENT.

2. ALL NEW OPENINGS, GREATER THAN 12" FOR BRICK-SIZE AND 24" FOR BLOCK-SIZE, INTO MASONRY WALLS SHALL RECEIVE A LINTEL. REFER TO THE STRUCTURAL DRAWINGS FOR LINTEL REQUIREMENTS. REFER TO MECHANICAL, ELECTRICAL, & PLUMBING PLANS FOR NUMBER, LOCATION, AND SIZE OF APPLICABLE PENETRATIONS.

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3. FILL ALL CMU VOIDS WITH MORTAR OR GROUT AT ALL DOOR JAMBS.

4. ALL PARTITIONS SHALL EXTEND FROM SUB-FLOOR OR SLAB TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE, UNLESS NOTED OTHERWISE.

5. GYPSUM BOARD APPLIED TO WALLS SHALL BE APPLIED WITH THE BOTTOM EDGE SPACED NOT LESS THAN 1/4" ABOVE THE FLOOR. INSTALL A CONTINUOUS BEAD OF ACOUSTICAL SEALANT UNDER EACH LAYER OF GWB AT THE INTERSECTION WITH FLOOR, ON EACH SIDE OF THE WALL.

6. ALL TOP-OF-WALL CONDITIONS SHALL BE SEALED TO THE DECK ABOVE, UNLESS NOTED OTHERWISE. MAINTAIN THE REQUIRED FIRE RATINGS, SMOKE RATINGS, AND ACOUSTICAL RATINGS. COORDINATE THE TOP OF WALL CONSTRUCTION WITH THE STRUCTURAL FRAMING.

7. INSTALL BLOCKING BEHIND ALL SURFACE-APPLIED FIXTURES, TRIM, GRAB BARS, SHELVES, CHAIR RAILS, PICTURE RAILS, BASE MOLDINGS, TACK OR MARKER BOARDS, WINDOW TREATMENT, WALL OR BASE CABINETS OR COUNTERS, AND MISCELLANEOUS ACCESSORIES MOUNTED ON STUD WALLS.

8. FOR EXISTING WALLS SUPPORTING NEW ITEMS, VERIFY THE WALL TYPE PRIOR TO PERFORMING THE WORK TO DETERMINE APPROPRIATE TYPE OF ANCHOR UNLESS INDICATED OTHERWISE. CONSULT ARCHITECT FOR CLARIFICATION IF NEEDED.

9. INSTALL MOISTURE RESISTANT (M.R.) GWB IN TOILET ROOMS, JANITOR'S CLOSETS, SHOWER ROOMS, LOCKER ROOMS, KITCHENS, DARKROOMS, ALL WALL AREAS WITHIN 8 FEET OF SINKS, AND OTHER DAMP OR HIGH HUMIDITY AREAS.

10. PROVIDE WOOD-PRESERVATIVE TREATED LUMBER (PRESSURE TREATED) AT ALL EXTERIOR WOOD FRAMING IN CONTACT WITH CONCRETE, WITHIN 18" OF THE GROUND, OR EXPOSED TO THE WEATHER SHALL BE.

11. VERIFY ALL COLD-FORMED METAL FRAMING AND CONNECTION REQUIREMENTS WITH ENGINEER OF EXTERIOR FRAMING SYSTEM.

12. ALL INTERIOR LIGHT GAGE METAL FRAMING IS 6", UNLESS NOTED OTHERWISE.

13. ALL CMU IS 8"X8"X16" (NOMINAL), UNLESS NOTED OTHERWISE.

14. LOCATE CONTROL JOINTS IN MASONRY AS SHOWN, OR IF NOT SHOWN, IN ACCORDANCE WITH ACI 530/ACI 530.1, UNLESS NOTED OTHERWISE.

15. ALL COLD-FORMED METAL FRAMING CAVITIES SHALL BE FIRE STOPPED WITH A 1-HOUR SEPARATION AT EACH FLOOR LEVEL.

16. PROVIDE ACOUSTICAL INSULATION AT ALL INTERIOR STUD WALL ASSEMBLIES UNLESS NOTED OTHERWISE.

17. IDENTIFY ALL FIRE-RATED PARTITIONS BY STENCILING THE RATING ON EACH SIDE OF THE RATED WALLS ABOVE THE CEILING LINE WITH 4" HIGH LETTERS IN RED OR ORANGE PAINT; EACH RATED WALL SHALL BE IDENTIFIED AT LEAST ONCE AND AT A SPACING NOT GREATER THAN 12 FEET ON CENTER.





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| approx 1,100 st total. Construction type will be steel-tra | med, non-c | IMARY rade class combustil | sroom space of ble, unprotected. | | | | K |
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| ARCHITECTURAL CODE AND STANDARD COMPLI, Project Description: A new two story Pre-Kindergarten sf total. Construction type will be steel-framed, non-cor supervised fully automatic sprinkler system. | ANCE SUM to 2nd Grad nbustible, u | IMARY de Schoo Inprotecte | l of approx 88,000 ed with a | 0 | П | 49 DARTM PORTLA 207- | OUTH STREET AND, MAINE 4101 775-1059 |
| Maine Uniform Building and Energy Code (MUBEC/ International Building Code (IBC) - 2015 edition w/ M | <u>//UBC/MUI</u> aine amer | <u>EC)</u> ndments | | | U | www.pc | |
| Use and Occupancy Classifications Occupancy Classification: Single Occupancy (Educational) Occupancy Groups: Educational: Group E (Section 305) 311.1.1 Accessory storage spaces. A room of is less than 100 square feet (9.3 m2) in area ar shall be classified as part of that occupancy. The spaces shall not exceed the allowable area lime | r space use Id accesso ne aggrega ts of Sectio | ed for sto ry to anot te area o on 508.2. | rage purposes tha ther occupancy f such rooms or | at | | COPYRI CHA A Reuse or re contents of th permitted permission c | GHT Architects production of the is document is no without written of PDT Architects. |
| Construction Classification: II-B (non-combustible, ur | protected) | | | | | | |
| Fire Protection Systems: Automatic alarm system, monitored and supervised per | NFPA 72. | | | | | | |
| Means of Egress Components Travel Distance Limitations: Educational use areas Max travel distance to an exit Max common path of travel Max dead end length | | | 250 ft 75 ft 20 ft | | | | |
| Exits/Exit Access per Floor Occ 42 | <u>s Req</u> 1 | ı'd | Provided 1 | | | | |
| Fire and Smoke Protection RequirementsVerExterior wallsnonOccupancy separations (single occupancy building)nonAccessory occupanciesnon | Horiz e none e none e none | Door none none none | Window none none none | | | Þ | 04011 |
| NFPA 101 Life Safety Code - 2015 edition Classification of Occupancy and Hazard of Contents Occupancy Classification: Single Occupancy (Educational) Occupancy Groups: Educational (Section 6.1.3.1) 6.1.3.2 Other Occupancies. Other occupancies institutions aboli be in concretence with the open | s associate | ed with ed | ducational | | | Y CLAS | ßrunswicl |
| NFPA 101 Life Safety Code - 2015 edition Classification of Occupancy and Hazard of Contents Occupancy Classification: Single Occupancy (Educational) Occupancy Groups: Educational (Section 6.1.3.1) 6.1.3.2 Other Occupancies. Other occupancies institutions shall be in accordance with the app Multiple-Occupancies (6.1.14) 6.1.14.1.3 Per Maine SFM Rules, this section is omitted and the replaced with IBC Accessory Construction Classification: II (0,0,0) non-combustible Detection,Alarm,andCommunicationsSystems. 14.3.4.1.1 Educational occupancies shall be provided with With Section 9.6. | s associate opriate par regarding <i>li</i> occupance, unprotect ith a fire ala | ed with ed rts of this <i>ncidental</i> <i>cies</i> section ted arm syste | ducational Code. <i>Occupancies</i> on. em in accordance | | | SCOVERY CLAS | dan Ave, Brunswicl |
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SCALE: As indicated ISSUE 4/1/2020

TITLE LIFE SAFETY

SHEET

A003



PLAN GENERAL NOTES

2

1. WORK FROM GIVEN DIMENSIONS. IN GENERAL, LARGE-SCALE DETAILS TAKE PRECEDENCE OVER SMALLER SCALE PLANS, ELEVATIONS AND BUILDING SECTIONS. NOTIFY THE ARCHITECT OF ANY DIMENSIONAL DISCREPANCIES PRIOR TO COMMENCING THE WORK, AND DO NOT BEGIN WORK UNTIL SUCH DISCREPANCIES ARE RESOLVED BY THE ARCHITECT.

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2. DO NOT SCALE THE DRAWINGS.

3. DIMENSIONS INDICATED AS "CLEAR" SHALL BE MAINTAINED IN CASES OF DISCREPANCY.

- UNLESS NOTED OTHERWISE, THE LOCATION OF DOOR FRAMES SHALL BE: 4.
- CMU PARTITIONS: 4" FROM THE ADJACENT WALL TO THE HINGE SIDE OF THE ROUGH OPENING. METAL STUD PARTITIONS: 4" FROM THE ADJACENT WALL STUDS TO THE HINGE
- SIDE OF THE ROUGH OPENING.

5. MASONRY OPENING OR ROUGH OPENING DIMENSIONS INDICATED ARE NOMINAL DIMENSIONS AND MAY NOT MATCH THE ACTUAL DIMENSIONS OF THE PRODUCT. COORDINATE ALL MASONRY OPENINGS AND ROUGH OPENINGS WITH THE ACTUAL WINDOW UNIT, DOORFRAME, CURTAIN WALL/STOREFRONT, OR LOUVER SIZES AND REQUIREMENTS.

- 6. DIMENSIONAL CONTROL:
- **EXTERIOR** DIMENSIONS ARE TO:
- CENTERLINE OF COLUMN FACE OF MASONRY •
- FACE OF STUD •
- FACE OF CONCRETE • CENTERLINE OF WINDOW OPENING •
- ROUGH OPENING •
- MASONRY OPENING
- **INTERIOR** DIMENSIONS ARE TO: CENTERLINE OF COLUMN
- FACE OF MASONRY •
- FACE OF STUD • FACE OF EXISTING FINISH MATERIAL •
- EXISTING DIMENSIONS SHALL BE VERIFIED. REPORT ANY DISCREPANCIES TO • THE ARCHITECT.
- TYPICAL DETAIL NOTES: 7. •
- THE FOLLOWING NOTES ARE TYPICAL THROUGHOUT THIS PROJECT AND APPLY IN ALL CASES UNLESS SPECIFICALLY NOTED OTHERWISE. THESE NOTES AND ASSOCIATED DETAILS MAY NOT BE DIRECTLY REFERENCED ON THE DRAWINGS:
- ALL COLUMNS ADJACENT TO OR INTEGRAL WITH EXTERIOR WALL •
- CONSTRUCTION SHALL BE ENCLOSED WITHIN THE WALL CONSTRUCTION. ALL COLUMNS LOCATED ADJACENT TO OR INTEGRAL WITH CMU OR GWB •
- PARTITIONS SHALL BE ENCLOSED WITHIN THE WALL CONSTRUCTION.
- ALL FREESTANDING COLUMNS SHALL BE ENCLOSED WITH GWB ON METAL • LGMF.
- ALL GWB PARTITIONS INTERSECTING MASONRY PARTITIONS, EITHER NEW OR • EXISTING, SHALL BE FINISHED WITH A "J" BEAD AND CONTINUOUS SEALANT.
- ALL NEW OPENINGS FOR WINDOWS AND DOORS IN EXISTING MASONRY WALLS SHALL BE TOOTHED IN AT THE JAMBS.
- ALL ROOF LEADERS, HEAT PIPING, SPRINKLER RISERS, PLUMBING VENTS, •
- SANITARY PLUMBING OR MISCELLANEOUS PIPING SHALL BE ENCLOSED WITHIN THE WALL CONSTRUCTION.
- ALL DUCT PENETRATIONS THROUGH FLOORS SHALL BE ENCLOSED IN A • CHASE.

MATERIAL KEY

LINO LINOLEUM PLAM PLASTIC LAMINATE PT PAINT RB RESILIENT BASE SCONC SEALED CONCRETE WB WHITE BOARD WF WINDOW FILM

ROOM FINISH NOTES

- 1. REFER TO ELEVATIONS FOR MATERIAL LOCATIONS & ACCESSORIES
- 2. LINO-2C TO RUN 4' UP WET WALL IN CLASSROOM TOILET ROOMS
- 3. EXPOSED STRUCTURE, INCLUDING DECK, JOISTS & DUCTS TO BE PAINTED P-6 (WHITE)

1

4. WALLS TO BE PAINTED P-1 U.N.O.

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ROOF GENERAL NOTES

2

1. PROTECT ALL OPENINGS CUT IN THE ROOF. PROVIDE TEMPORARY ROOFING IF WORK IS TO BE UNFINISHED DURING ADVERSE WEATHER CONDITIONS THROUGHOUT THE CONSTRUCTION PHASE.

1

2. PROVIDE FLASHING AT ALL ROOF PENETRATIONS. PENETRATIONS MAY NOT BE INDICATED ON THE ROOF PLAN. REFER TO STRUCTURAL, MECHANICAL AND ELECTRICAL PLANS FOR NUMBER, LOCATION, AND SIZE OF PENETRATIONS.

3. PROVIDE A 2 FEET WIDE WALKWAY WITH PROTECTION STRIPS ENTIRELY AROUND ALL ROOF TOP MECHANICAL UNITS AND CREATE A PROTECTION STRIP PATHWAY, 2 FEET WIDE, FROM THE ROOF ACCESS LOCATION(S) TO EACH MECHANICAL UNIT.

4. PROTECT ROOFING MATERIALS FROM CONSTRUCTION OPERATIONS.

PROVIDE CURBS AND PRESSURE TREATED WOOD BLOCKING AS REQUIRED FOR 5. ALL ROOF MOUNTED EQUIPMENT, UNLESS NOTES OTHERWISE.

ROOF LEGEND

ROOF SYSTEM - SEE TYPICAL ASSEMBLIES SHEET TB - TOP OF PARAPET BLOCKING (FROM T.O. DECK)

WALKWAY PAD, TO BE PLACED AT ALL EQUIP. SERVICE AREAS, DOOR, AND LADDERS. 10' MIN FROM ROOF EDGES AND SKYLIGHTS

"M" INDICATES ROOF TOP MECHANICAL EQUIPMENT THAT IS TO BE CURB MOUNTED. CONFIRM ALL LOCATIONS AND ANY ADDITIONAL EQUIPMENT NOT NOTED ON ROOF PLAN WITH MEP DRAWINGS. NO CURB-MOUNTED EQUIPMENT TO BE LOCATED WITHIN 10' OF A ROOF EDGE.

1

ROOF SLOPE

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TITLE OVERALL PLAN -ROOF

A102

SHEET

| CEILING TYPES | | | | | |
|--|--|----------|---|---------------------------------------|-----|
| C1 C2 | 2x2 ACOUSTIC CEILING TILE GWB ON METAL STUD | | | | |
| GRAPHIC LEGEND | | | | A | |
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| | | | 4/1/202 | 0 | |
| CEILING NOTES | | A | | | |
| 1. CEILING PLANS D ELECTRICAL, PLUMBING, | O NOT SHOW EVERY FIXTURE OR COMPONENT. REFER T MECHANICAL AND STRUCTURAL DRAWINGS FOR EXTENT | O OF | | L RCP | |
| ALL CEILING PENETRATION | UNS AND INSTALLATIONS AND COORDINATE PRIOR TO | | | | |
| CENTER GRID LA ALL COMPONENT | YOUT IN ALL ROOMS UNLESS NOTED OTHERWISE. | ING | | | |
| SHALL BE CENTERED IN CEILING TILES, UNLESS N LIMITED TO, LIGHT FIXTU | THE CEILING TILE OR IN THE 2X2 PORTION OF TEGULAR NOTED OTHERWISE. THIS SHALL INCLUDE, BUT NOT BE RES, DIFFUSERS, SPEAKERS, SMOKE DETECTORS, AND | | SHEET | | |
| SPRINKLER HEADS. | STALLATION OF CEILINGS, ALLOW FOR AN ABOVE-CEILING | , , | A1 | 11 | |
| INSPECTION OF COMPON BEEN INSTALLED, INCLUI SEPARATIONS. | VENTS THAT WILL NOT BE VISIBLE WHEN THE CEILINGS HAD DING INSPECTION OF FIRE, SMOKE, AND ACOUSTICAL | VE | | _ | |

A300

С

CLOSED CORNER TRIM DETAIL AT 3 FIBER CEMENT PANEL 3" = 1'-0"

4

FIBER CEMENT PANEL

TYPICAL DEFLECTION TRACK AT EXTERIOR WALL CONTROL JOINT $(2)\frac{1}{3''} = 1'-0''$

4

FASTEN SHEATHING BELOW JOINT TO CFMF STUD

BACKER ROD-

FASTEN SHEATHING ABOVE JOINT -TO DEFLECTION TRACK ONLY FIBER CEMENTPANEL -AVB CONTINUOUS OVER JOINT GAP IN FIBER CEMENT PANEL -SUPPORT RAIL AT MOVEMENT JOINT

CFMF INFILL AS REQ TO -CARRY SHEATHING PAST STL BEAM DEFLECTION TRACK STOP CFMF STUDS SHORT OF -DEFLECTION TRACK

6 TOP OF WALL DETAIL @ STOREFRONT 3" = 1'-0"

5

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- TYPICAL STOREFRONT HEAD W/ RECEPTOR. ALLOW FOR 3/4" MAX DEFLECTION

- CFMF MOVES WITHIN

DEFLECTION TRACK

- FASTEN JOINT COVER TO DEF TRACK ONLY

ALL JOINTS TO ALLOW

FOR 1" COMPRESSION

FROM INSTALLED CONDITION

COORDINATE WITH

/ 1" F - GWB CONTROL -

JOINT

STRUCTURAL

FASTENED TO BENT PLATE

BENT PLATE TO RECEIVE

THERMAL INSULATING

12" BRAKE MTL FASCIA,

3

- BACKER ROD AND SEALANT

- CONTINOUS 2X NAILER

PARAPET DETAIL AT FIBER CEMENT 1) Copy 1 3" = 1'-0"

EINSULATION

2

SEE FINISH PLANS, -SCHEDULE, AND INTERIOR ELEVATIONS FOR INTERIOR FINISHES

2" RIGID INSUL, EXTEND -4' FROM SLAB EDGE VAPOR RETARDER -

4 4 4 - 4 · 4 · : · à : 1.4 . 4 . 46 · · · 4 . 44

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AND VERTICAL CLIP SYSTEM-MEASU PANEL SUBTR PANEL - 4 , - *, FIBER CEMENT PANEL KEY CORNER TRIM, PAINTED TO MATCH --FACE FASTENER ATTACHED TO SPACER -CLIP AND RAIL SYSTEM -

С

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4

4

VERTICAL TERMINATION @ ROOF TOP E2 AHU 3" = 1'-0"

3

2

- SEE PLAN FOR NO.

- STAINLESS STEEL

PRE-FABRICATED
 PIPE SEAL
 CONTINUOUS LAP

CLAMPING RING

SEALANT AND

MEMBRANE

- INSULATION

ROOFING SYSTEM

- CHASE THROUGH ROOF - ANCHOR TO

STRUCTURE

MIN

<u>|| || || ||</u>)

MIN

E3 PENETRATION 3" = 1'-0"

CHASE FOR MECHANICAL

SPLICING CEMENT

OF PIPES

3 BATHROOM ENLARGED 3/4" = 1'-0"

TOILET ACCESSORIES MIRROR - 24 X 36 SOAP DISPENSER - OSCI PAPER TOWEL DISPENSER - OSCI TOILET PAPER DISPENSER - OSCI GRAB BARS

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|---|--|--|
| С | DISCOVERY CLASSROOM | 75 Jordan Ave, Brunswick, ME 04011 |
| В | | |
| A | JOB NO. 17078 DRWN. Checker SCALE: As indica ISSUE 4/1/2020 TITLE ENLARG BATHRO DETAILS SHEET SHEET | CHK ted |

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4 1/2"

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WINDOW ID NUMERALS (VISIBLE FROM EXTERIOR) FONT TBD COLOR TBD HEIGHT TO BE 4-1/2" MATERIAL TO BE REFLECTIVE

5 <u>SIGNAGE - TYPE 7</u> 3" = 1'-0"

ROOM NAME BRAILLE

FONT TBD ALL LETTERING/NUMERALS/BRAILLE TO BE CHEMICALLY WELDED (INLAY) ANY SIGN MOUNTED TO GLASS SHALL INCLUDE A BACKPLATE MADE OF SAME MATERIAL AS FRONT PLATE

4 <u>SIGNAGE - TYPE 3</u> 6" = 1'-0"

BRAILLE

FONT TBD ALL LETTERING/NUMERALS/BRAILLE TO BE CHEMICALLY WELDED (INLAY) ANY SIGN MOUNTED TO GLASS SHALL INCLUDE A BACKPLATE MADE OF SAME MATERIAL AS FRONT PLATE

3 SIGNAGE - TYPE 1 6" = 1'-0"

2 TS-11 - .080" MATERIAL TO FLOOR 3" = 1'-0"

1

2

3

4

UNDER SLAB -INSUL PER TYPICAL BASE OF WALL DETAILS

2

HM DOOR AND -FRAME

RETARDER, SEAL TO EXTERIOR SLAB

1 HM FRAME DETAILS @ GWB 1 1/2" = 1'-0"

Door Frame Legend

1/4" = 1'-0"

| Door & Frame Schedule | | | | | | | | | | | | | | | | | |
|-----------------------|------|------------------------|----------|--------------|------|------|--------|--------|--------|------|------|--------|---------|--------|--------|------|----------------|
| LOCATION DOOR | | | | | | | FRAME | | | | | | | | | | |
| DOOR | ROOM | | OPE | NING | | PA | ANEL | | | - | | | DETAILS | | | | |
| NO. | NO. | ROOM NAME | WIDTH | HEIGHT | TYPE | MATL | THICK | CONFIG | Finish | TYPE | MATL | HEAD | JAMB | SILL | RATING | HDWR | COMM |
| | | | · | | | | | | | | | | 1 | 1 | • | | |
| 100.1 | 100 | DISCOVERY CLASSROOM | 15' - 2" | 7' - 1 9/16" | | ALUM | 6 3/4" | | CLR | 2 | ALUM | | | 9/A630 | | 1.0 | NOTE 1 |
| 100.2 | 100 | DISCOVERY CLASSROOM | 3' - 0" | 7' - 0" | F | НМ | 1 3/4" | SINGLE | PTD | 1 | НМ | 3/A600 | 4/A600 | 2/A600 | | 2.0 | NOTES 2, 3 & 4 |
| 100.3 | T102 | WC | 3' - 0" | 7' - 0" | F | WD | 1 3/4" | SINGLE | STN | 1 | НМ | 1/A600 | 1/A600 | | | 3.0 | |
| 100.5 | 101 | STORAGE | 3' - 6" | 7' - 0" | F | WD | 1 3/4" | SINGLE | STN | 1 | НМ | 1/A600 | 1/A600 | | | 4.0 | |
| 101.1 | 101A | UTL. | 3' - 0" | 7' - 0" | F | HM | 1 3/4" | SINGLE | STN | 1 | НМ | 1/A600 | 1/A600 | | | 4.0 | |

STUD PARTITION - SEE PLAN FOR

TYPE AND THICKNESS

DRWN. CHK

Checker

SCALE:

As indicated

 \rightarrow

 $\langle 2 \rangle$

BASIS OF DESIGN:

 \leq

— COUNTER & BACKSPLASH, TYP.

- LINE BORINGS, TYP.

— ADJUSTABLE SHELF, TYP.

4

4

3 ACCESSIBLE SINK DETAIL 1 1/2" = 1'-0"

| D | 49 DARTMC PORTLA 04 207-7 www.pd | UTH STREET ND, MAINE 4101 '75-1059 tarchs.com |
|---|---|---|
| | COPYRI CHA A Reuse or rep contents of thi permitted permission of | GHT Architects production of the s document is not without written f PDT Architects. |
| С | DISCOVERY CLASSROOM | 75 Jordan Ave, Brunswick, ME 04011 |
| В | | |
| A | JOB NO. 17078 DRWN. Checker SCALE: 1 1/2" = ISSUE 4/1/2020 TITLE CASEWO DETAILS SHEET SHEET | снк 1'-0" 0 ОПО |

| POWER SYMBOLS | | | LIGHTING | CONTRC |
|--|---|--|------------------|---------------------------|
| | CAL PANELBOARD, SEE DRAWII | NG FOR DETAILS | OS ⊥ | WALL MOU |
| | PANEL, SEE DRAWING FOR DI | ETAILS | \$ _{os} | SINGLE PO |
| DUPLEX F PROVIDE R = REFR | RECEPTACLE, 20A, 125V, SPEC D W/MATCHING FACEPLATE, GERATOR | GRADE, GROUNDING TYPE, FLUSH MOUNTED, | ծ \$_ | SINGLE PO FACEPLAT |
| GF = GFC 48" AFF = WP = GFC | RATED MOUNTING HEIGHT | | 2 | FACEPLAT |
| REEL & CEILING N DROP CORD CEILING N SPEC GR | MTD CABLE REEL W/25FT CORE ADE, GROUNDING TYPE, LEGRA | D, QUAD RECEPTACLE BOX, 15A, 125V, GFCI RATED, AND #CRCD123G25R15, OR EQUAL | LIGHTING | SYMBOL |
| 30/2 DISCONN PROVIDE | ECT SWITCH, SIZE AND NUMBE D BY EC UNLESS NOTED OTHEI | R OF POLES AS INDICATED ON DRAWING. RWISE. PROVIDE FUSES WHERE | A | LIGHTI PER LI LETTE |
| RECOMM WP = WE | ENDED BY MANUFACTURER. ATHER NEMA 3R ENCLOSURE | | | SELF CON |
| WIRING SYMBOLS | | | | UNIVERS/ ARROWS |
| RACEWA | Y & WIRING OR MC CABLE | BRANCH CIRCUIT WIRING SHALL CONSIST OF 2 | | |
| RUN CON | CEALED IN WALLS/CEILINGS | #12AWG, 1 #12GND, 1/2" CDT UNLESS OTHER WISE NOTED. (*)ASTERISK DENOTED #10 AWG FOR ALL CIRCUITS CONTAINED IN HOME RUN. | FIRE ALAR | RM SYME |
| EXPOSED | | (**)DOUBLE ASTERISK DENOTES 2 #8AWG, 1 #10GND, 3/4" CDT | 75 F | FIRE ALA NUMBER |
| — — — — RACEWA' CONCEAL BURIED 3 | T & WIKING KUN LED UNDER FLOOR OR 0" BELOW FINISH GRADE | PROVIDE EQUIPMENT GROUNDS IN ACCORDANCE WITH NFPA 70, ARTICLE 250. | 15 S | FIRE ALA CODE, NL |
| DCP-XX HOME RU PANEL AN | IN TO PANEL, WITH | | F | FIRE ALA |
| | | | Ĥ | FIXED TE |
| | | | (SD) | SMOKE D |
| TELECON NOTED | TWORK JACK FOR WIRELESS F A BACKBOARD, MOUNT 12" AFF | BELOW CEILING UNLESS OTHERWISE | | |
| UAL NE MOUNT 1 | TWORK JACK W/CAT 6 CABLE F 8" AFF UNLESS OTHERWISE NO | RUN BACK TO TELECOM BACKBOARD, DTED | | |
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SOLS DTION SENSOR (WATTSTOPPER OR EQUAL) CH, 120V, 20A, SPEC GRADE, GROUNDING TYPE, W/MATCHING TEGRAL OCCUPANCY SENSOR, MOUNT 48" AFF CH, 120V, 20A, SPEC GRADE, GROUNDING TYPE, W/MATCHING T 48" AFF IER SWITCH, 120V, 20A, SPEC GRADE, GROUNDING TYPE, W/ MATCHING IT 48" AFF RES, CAPITAL LETTERS DENOTE TYPE IXTURE SCHEDULE. LOWER CASE TE SWITCH CONTROL. MERGENCY LIGHT W/2 HEADS ED EXIT LIGHT SIGN, UNSWITCHED, PROVIDE DIRECTIONAL TED ON PLANS

3

VISUAL, MOUNT AT MAXIMUM HEIGHT ALLOWED BY CODE, S CANDELA RATING

STROBE ONLY, FLUSH MOUNT AT MAXIMUM HEIGHT ALLOWED BY ICATED CANDELA RATINGS

STATION, MOUNT 48"AFF

4

RE HEAT DETECTOR, 135°F

PHOTOELECTRIC TYPE

1

| | Location: UTI Supply From: Mounting: Sur | 101A face | | | | P |
|---------|--|--------------|----------|----------|------|-----|
| скт | Circuit Description | Trip | Poles | ŀ | 4 | |
| 1 | Lighting | 20 A | 1 | 7 A | 8 / | 4 |
| 3 | Receptacle | 20 A | 1 | | | |
| 5 | Refrigerator | 20 A | 1 | | | |
| 7 | Classroom Receptacles | 20 A | 1 | 2 A | 9 / | 4 |
| 9 | | | | | | |
| 11 | HVAC-1 Rooftop | 60 A | 3 | | | |
| 13 | | | | 50 A | 10 | A |
| 15 | EWH-1 UTL. 101A | 20 A | 1 | | | |
| 17 | Door Access Control | 20 A | 1 | | | |
| 19 | | | | | | |
| 21 | | | | | | |
| 23 | | | | | | |
| | | Tot | al Load: | 9994 | I VA | |
| | | Tota | al Amps: | 83 | A | |
| Load | Classification | | Connec | ted Load | k | Der |
| HVAC | , | | 1794 | IO VA | | |
| Heatir | ng | | 400 | 0 VA | | |
| Lightir | ng | | 795 VA | | | |
| Other | | | 4320 VA | | | |
| Powe | r | | 100 | 0 VA | | |
| Recep | otacle | | 5120 VA | | | |

| | | | LIGHTIN | G FIXTURE SCHEDULE |
|------|----------------|---|-------------------------------|--------------------|
| NEW | | ORDING INFORMATION | LED INFORMATION | |
| TYPE | MANUFACTURER | MODEL NUMBER | WATTAGE / COLOR TEMP / LUMENS | SIZE |
| B1 | ALPHABET | NU6-RD-XTM19-10LM-35K-83-HE80-120V-DIM10-NC-WH-WH | 12.4W / 3500K / 860 LUMENS | 6" DIA APERTURE x |
| E1 | SURE-LITES | SEL50R7SD | LED | 14"W x 4-3/4"H x |
| E2 | SURE-LITES | SRP25 | LED | 4.7 DIA x 6.3" P |
| J1 | METALUX | 4WSNLED-LD4-44SL-F-UNV-L835-CD1-U | 101W / 3500K / 4424 LUMENS | 48"L x 9-1/8"w x 3 |
| P1a | CORELITE | CTA-F-7525-40L-835-1-UNV-STD-W-AC48-UM-4 | 30W / 3500K / 3993 LUMENS | 48" L x 7" W x 2 |
| P1b | CORELITE | CTA-F-7525-40L-835-1-UNV-STD-W-AC48-UM-16 | 120W / 3500K / 15968 LUMENS | 16'L x 7"W x 2 |
| S1 | MCGRAW EDISION | IST-AF-1200-LED-E1-T2-XX-P120-CWB-8030 | 66.2W / 3000K / 7047 LUMENS | 16-1/2" W x 7" H |
| W1 | METALUX | 2BCLED-LD4-28HL-F-UNV-L835-CD1-U | 29W / 3500K / 2800 LUMENS | 24"Lx 4-3/4"Hx |

С

ISOLATION VALVES.

4

³₄" CW ¬∖

NTS

<u>RADIUS</u> ELBOW NTS

| ⊗ Z4 | BACKFLOW PREVENTER (BFP) CHECK VALVE |
|-----------|--|
| ₩ X A S S | BALANCING VALVE (ADJUSTABLE) AUTOMATIC FLOW CONTROL VALVE RELIEF VALVE (RV) BALL VALVE BALL VALVE 3/4" BALL VALVE WITH 3/4" HOSE END GATE VALVE PRESSURE REDUCING VALVE FUSIBLE VALVE STRAINER W/BLOWDOWN BALL VALVE 2-WAY CONTROL VALVE SOLENOID VALVE |
| ₩ ₩ | 3-WAY CONTROL VALVE |
| | 4-WAY CONTROL VALVE (TOP VIEW) 2 BUTTERFLY VALVES W/SINGLE ACTUATOR BUTTERFLY VALVE W/ACTUATOR TRIPLE-DUTY VALVE UNION PIPE FLANGE BUMB WITTER ANGEE |
| | BASE MOUNTED PUMP CARTRIDGE TYPE INLINE PUMP VERTICAL INLINE PUMP FLEXIBLE PIPE CONNECTION (FC) PITCH DOWN PETCOCK FLOW METER |
| | ╏╵╷┇ ╸┇╙╢ ╺╛╴╧╌┿╴┺ ┺ ┺ ┸ _┍ ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° |

SYMBOL DES

5

MECHANICAL AND PLUMBING SYMBOLS AND ABBREVIATIONS LEGEND NOTE - USE SYMBOLS AND ABBREVIATIONS AS APPLICABLE FOR THIS MECHANICAL DRAWING SET. SOME SYMBOLS AND ABBREVIATIONS IN THIS LEGEND MAY NOT APPLY.

| STMBOL | DESCRIPTION | ABBREVIATION | DESCRIPTION | ABBREVIATION | DESCRIPTION | ABBREVIATION | DESCRIPTION |
|----------------|--------------------------------------|--------------|--------------------------------|--------------|-----------------------------|--------------|-----------------------------|
| @_ -ō- | PRESSURE GAGE WITH GAGE COCK | | AUTOMATIC AIR VENT | EDB | ENTERING DRY BULB | I=B=R | INSTITUTE OF BOILER AND |
| ୲୲୷ | THERMOMETER IN WELL | AD | ACCESS DOOR | EDC- | ELECTRIC DUCT COIL TAG | | RADIATOR MANUFACTURERS |
| Ē- | WATER FLOW SWITCH | AFF | ABOVE FINISHED FLOOR | EER | ENERGY EFFICIENCY RATIO | iFWH-* | INDIRECT FIRED WATER HEATER |
| | PRESSURE SWITCH OR SENSOR | AHU- | AIR HANDLING UNIT TAG | EF- | EXHAUST FAN TAG | IN. | INCHES |
| Ē | IMMERSION TEMPERATURE SENSOR | AMS | AIRFLOW MONITORING STATION | EFF | EFFICIENCY | L-" | LOUVER TAG |
| ፼-□ | DUCT MOUNTED SMOKE DETECTOR | AMPS | AMPERES | EG- | EXHAUST GRILLE TAG | LAT | LEAVING AIR TEMPERATURE |
| R | ROOM TEMPERATURE SENSOR | AP | ACCESS PANEL | ESP | EXTERNAL STATIC PRESSURE | LB | POUNDS |
| T S | THERMOSTAT OR SENSOR ON WALL | APD | AIR PRESSURE DROP | ET-" | EXPANSION TANK TAG | LTHWS/R | LOW TEMPERATURE HOT WATER |
| ٦Ū | TSTAT OR SENSOR W/ TAMPERPROOF GUARD | A6-" | AIR SEPARATOR TAG | EWB | ENTERING WET BULB | LRA | LOCKED ROTOR AMPS |
| \odot | MANUAL AIR VENT | ATC | AUTOMATIC TEMPERATURE CONTROL | EWH-* | ELECTRIC WATER HEATER TAG | LWCO | LOW WATER CUTOUT |
| $\overline{2}$ | NOTE TAG (NUMBER) | B-* | BOILER TAG | EWT | ENTERING WATER TEMPERATURE | LWT | LEAVING WATER TEMPERATURE |
| A250 | AIR DEVICE TAG (LETTER) WITH CFM | BFP- | BACKFLOW PREVENTER TAG | EXG | EXISTING | MAX | MAXIMUM |
| 101 | ROOM NUMBER | BHP | BRAKE HORSEPOWER | EXH | EXHAUST | MBH | THOUSANDS OF BTU PER HOUR |
| <u>.</u> | TURNING VANES | BTUH | BRITISH THERMAL UNITS PER HOUR | FC | FLEXIBLE CONNECTION | MCA | MINIMUM CIRCUIT AMPACITY |
| | DUCT W/MANUAL DAMPER | CBD | COUNTER BALANCED DAMPER | FCO | FLOOR CLEANOUT | MIN | MINIMUM |
| 주께달 | DUCT W/FLEXIBLE CONNECTION (FC) | CC-* | COOLING COIL TAG | FD | FIRE DAMPER | NC | NOISE CRITERION |
| | LAGGED DUCT | CFM | CUBIC FEET PER MINUTE | FD- | FLOOR DRAIN TAG | NIC | NOT IN CONTRACT |
| | DUCT W/ACOUSTIC LINING | со | CLEANOUT | FLA | FULL LOAD AMPS | NTS | NOT TO SCALE |
| | DUCT W/SQUARE-TO-ROUND TRANSITION | CUH- | CABINET UNIT HEATER TAG | FOR | FUEL OIL RETURN | OA | |
| ~ | FLEXIBLE DUCT | CP-* | CIRCULATING PUMP TAG | FOS | FUEL OIL SUPPLY | OBD | OPPOSED BLADE DAMPER |
| MOD [] | MOTOR OPERATED DAMPER | CT-* | COOLING TOWER TAG | FPHB | FROST PROOF HOSE BIBB | O.D. | OUTSIDE DIAMETER |
| _ _ | AIRFLOW OUT | Cv | VALVE COEFFICIENT | FPM | FEET PER MINUTE | OED | OPEN ENDED DUCT |
| - \- | AIRFLOW IN | CW | COLD WATER | F9-* | FLOOR SINK TAG | OPD | OVERCURRENT PROTECTIVE DEV |
| φ | DIAMETER OR FLAT OVAL | DB | DRY BULB | FT | FEET | ORD | |
| | FIRE DAMPER | dB RE | DECIBELS RELATIVE TO | FTR-* | FINTUBE RADIATION TAG | | |
| 5 | ROUND OR FLAT OVAL DUCT DOWN | DC | DOUBLE CHECK | GA. | GAGE | | |
| | ROUND OR FLAT OVAL DUCT UP | DCA | DOUBLE CHECK ATMOSPHERIC | GAL | GALLONS | PENEIN | |
| | SUPPLY DIFFUSER | DEG F | DEGREES FAHRENHEIT | GPH | GALLONS PER HOUR | | POUNDS FER SQUARE INCH ABS |
| | RETURN GRILLE | DIA | DIAMETER | GPM | GALLONS PER MINUTE | FSIG | |
| | STEAM TRAP | DIW | DOWN IN WALL | HC- | HEATING COIL TAG | | |
| Ŧ | WATER HAMMER ARRESTOR | DN | DOWN | HP | HORSEPOWER | RA PD | |
| | | EA | EXHAUST AIR | HW | HOT WATER | PDF | |
| | | EAT | ENTERING AIR TEMPERATURE | HWS/R | HOT WATER SUPPLY AND RETURN | RFM- | RADIANT FLOOR MANIFOLD TAG |

RHW

RECIRCULATED HOT WATER

MECHANICAL - ELECTRICAL (207) 865-9475

| QUIREMENTS | | | E | BASIS OF DESIGN | = PANASONIC |
|------------|------|----------|----------|-----------------|-------------|
| | AMP9 | V/PH/HZ | SERVICE | ARRANGEMENT | MODEL |
| | 02 | 120/1/60 | BATHROOM | CEILING | FV-0511VKS2 |

ELECTRICAL REQUIREMENTS

HP MCA MOCP V/PH/HZ

FUEL

| BFF | 3FP PERFORMANCE SCHEDULE | | | | | | | | | | | |
|-------|--------------------------|-----------------------|----------------|--|-----------------------------------|------------------------|-------------|---|-------|--|--|--|
| TAG | SIZE | FLOW RATE (GPM) | W.P.D (PSI) | MAX. WORK'G. TEMPERATURE (DEGREES F) | MAX. WORK'G. PRESSURE (PSI) | TESTABLE (Y) OR (N) | BODY STYLE. | BASIS OF DESIGN = ZURN-WILKINS BODY STYLE: SERVICE MOD | | | | |
| FP-10 | 3/4" | 25 | 12.0 | 180 | 175 | ٢ | RPZ | WATER ENTRANCE | 915×L | | | |
| | | | | | | | | | | | | |

· - (NET) AT 95°F AMBIENT

MODEL

JØGZRS

BASIS OF DESIGN - YORK

SERVICE

BUILDING

| E×f | PANSI | ON TANK | PERFOR | RMANCE | SCHEDUL | E | | | |
|------|-------|---------|-------------|--------------|--------------|--------|----------|-------------------|-----------------------|
| TAG | | | MIN. REQ'D. | MAX. WORK'G. | MAX. WORK'G. | WEIGHT | BASI | S OF DESIGN = AMT | ROL |
| TAG | (GAL) | (GAL) | (GAL) | (DEG F) | (PSI) | (LBS) | MOUNTING | SERVICE | IROL MODEL ST-5 |
| 1-10 | 2.Ø | 0.9 | 0.5 | 200 | 150 | 5 | FLOOR | DOM HW | 5 T-5 |

| ELE | | C WAL | LHE | | PER | RFOR | MANCE | SCHEDULE | | | |
|---------|--------|---------|-------|---------------------|--------|---------|------------|-------------------------|-------------|----------------------|--|
| TAC. | OUTPUT | AIRFLOW | | MTG.HT. (INCHES) | ELECTR | ICAL RE | QUIREMENTS | BASIS OF DESIGN - QMARK | | | |
| TAG C | (MBH) | (CFM) | | | AMP5 | WATTS | V/PH/HZ | SERVICE | ARRANGEMENT | MODEL | |
| WH-1 | 6.8 | 100 | - | 16" | 8.3 | 2000 | 208/1/60 | SPACE HEAT | WALL | HT2Ø24 99 | |
| · - PRC | | SURFACE | MOUNT | ING FRAM | E | | | | | | |

| AIR | AIR DEVICE PERFORMANCE SCHEDULE | | | | | | | | | | | |
|----------------|---|----------|-------|--------------|---|----|-------------------------|----------------|--------------|-------|--|--|
| TAG | AG PANEL NECK AIRFLOW SPLOSS THROW() THROW(S) | | | | | Nc | BASIS OF DESIGN = PRICE | | | | | |
| TAG | SIZE(IN) | SIZE(IN) | (CFM) | (IN.WG.) | | | | DUCT CONN.(IN) | PATTERN | MODEL | | |
| ଚା | - | 6x12 | 220 | 0.05 | - | - | 20 | 12×6 | SEE DRAWINGS | AHCD | | |
| 5 2 | - | 12x6 | 10 | <i>0.0</i> 5 | - | - | 20 | 12×6 | IGA, NARROW | LBP | | |
| RI | - | 18x18 | 1000 | 0.05 | - | - | 21 | 18×18 | SEE DRAWINGS | 610 | | |

PROVIDE WITH OPPOSED BLADE DAMPERS

1

| ABBREVIATION | DESCRIPTION |
|--------------|-------------|

| ND | RLA | RUNNING LOAD AMPS |
|------------------|---------|-----------------------------------|
| JRERS | RPM | REVOLUTIONS PER MINUTE |
| HEATER TAG | RP9 | REVOLUTIONS PER SECOND |
| | RPZ | REDUCED PRESSURE ZONE |
| | RTU | ROOM TEMPERATURE SENSOR |
| TURE | RV | RELIEF VALVE |
| | RWL | RAINWATER LEADER |
| I WATER | SA | SUPPLY AIR |
| | SAN | SANITARY (DRAIN & WASTE) |
| | SD | SMOKE DAMPER |
| RATURE | SEER | SEASONAL ENERGY EFFICIENCY RATIO |
| | SF | SUPPLY FAN |
| RHOUR | 5P | STATIC PRESSURE |
| CITY | 5P-" | SUMP PUMP TAG |
| | SQFT | SQUARE FEET |
| | ∆ז | TEMPERATURE DIFFERENTIAL |
| | TEMP. | TEMPERATURE |
| | ICP | TEMPERATURE CONTROL PANEL |
| | TM∨-∎ | THERMOSTATIC MIXING VALVE TAG |
| PER | TSP | TOTAL STATIC PRESSURE |
| | ĪΥΡ | TYPICAL |
| | UH-" | UNIT HEATER TAG |
| TIVE DEVICE | vВ | VACUUM BREAKER |
| | VFD | VARIABLE FREQUENCY INVERTER DRIVE |
| LEADER | VIR | VENT THRU ROOF |
| | V/PH/HZ | VOLTS/PHASES/HERTZ |
| | WB | WET BULB |
| NCH ABSOLUTE | WCO | WALL CLEANOUT |
| | WG | WATER GAGE |
| (PIPE) | WPD | WATER PRESSURE DROP |
| | WSA | WIRE SIZING AMPS |
| | WTD | WATER TEMPERATURE DROP |
| LEMENT FUSE AMPS | W/ | WITH |
| | | |

| | 49 DARTMO PORTLA | OUTH STREET ND, MAINE | |
|---|--|---|----------|
| D | 04 207-7 www.pd | 4101 75-1059 tarchs.com | |
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| C | DISCOVERY CLASSROOM | 75 Jordan Ave, Brunswick, ME 04011 | |
| В | | | |
| | JOB NO. Project N | OF MALENGEL | . |
| A | SCALE: NO SCA ISSUE 4/1/2020 TITLE MECHA | LE 0 NICAL | |
| | SCHEDI LEGENI DETAILS SHEET | DLES, DAND S | |
| | M | 301 | |

RCHITECTU

| E | INERAL NOTES |
|---|---|
| | THE NOTES ON THESE DRAWINGS ARE NOT INTENDED TO REPLACE SPECIFICATIONS, SEE SPECIFICATIONS FOR REQUIREMENTS IN ADDITION TO |
| | GENERAL NOTES. INCONSISTENCIES BETWEEN THESE DRAWINGS AND THE |

TO PROCEEDING WITH THE AFFECTED PORTION OF THE WORK.

2. EDITIONS OF MATERIAL STANDARDS REFERENCED ON THIS DRAWING SHALL BE AS INDICATED IN THE BUILDING CODES.

SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR

- 3. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ALL OTHER PROJECT DRAWINGS AND SPECIFICATIONS. CONSULT ALL OTHER PROJECT DOCUMENTS FOR LOCATIONS AND DIMENSIONS OF OPENINGS, CHASES, INSERTS. REGLETS, SLEEVES, DEPRESSIONS, AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.
- 4. ALL DIMENSIONS, EXISTING CONDITIONS, AND AS-BUILT CONDITIONS MUST BE VERIFIED IN THE FIELD, ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER BEFORE PROCEEDING WITH THE EFFECTED PART OF THE WORK.
- 5. SECTIONS AND DETAILS SHOWN ON ANY STRUCTURAL DRAWINGS SHALL BE CONSIDERED TYPICAL FOR SIMILAR CONDITIONS AS DETERMINED BY THE STRUCTURAL ENGINEER. THE STRUCTURAL ENGINEER RESERVES THE RIGHT TO INTERPRET DETAILS TO ADDRESS OTHER PROJECT CONDITIONS.
- 6. IN ACCORDANCE WITH THE MAINE UNIFORM BUILDING AND ENERGY CODE AND INTERNATIONAL BUILDING CODE (2015 EDITION, SECTION 1704.1), SPECIAL INSPECTIONS ARE REQUIRED BY THE LOCAL CODE OFFICIAL. SEE THE STATEMENT OF INSPECTIONS AND THE PROJECT SPECIFICATIONS FOR ADDITIONAL CRITERIA.
- 7. ALL APPLICABLE FEDERAL. STATE. AND MUNICIPAL REGULATIONS SHALL BE FOLLOWED, INCLUDING THE FEDERAL DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ACT.
- 8. THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE ONLY AFTER THE STRUCTURAL WORK CONTAINED IN THE STRUCTURAL DRAWINGS IS COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING. SHEETING. TEMPORARY BRACING. GUYS. OR TIE-DOWNS. SUCH MATERIAL SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER COMPLETION OF THE PROJECT.
- 9. REFERENCE THE PROJECT SPECIFICATIONS FOR ALL TESTING REQUIREMENTS.

UNIFORM / CONCENTRATED

100 PSF / 1,000 LBS

SEE TABLE THIS SHEET

1.25

Ss: 0.228

S1: 0.077

SDS: 0.243

SD1: 0.123

X: 3

Y: 3

X: 0.101

Y: 0.101

8 PSF

52 PSF

44 PSF

124MPH

1.0

1.1

1.1

DESIGN GOVERNED BY SNOW

DESIGN LOADS

- 1. BUILDING CODE: MAINE UNIFORM BUILDING AND ENERGY CODE INTERNATIONAL BUILDING CODE (IBC), 2015 EDITION ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, RISK CATEGORY III
- 2. DESIGN FLOOR LIVE LOADS: ROOF FIRST FLOOR
- 3. DESIGN ROOF SNOW LOAD: GROUND SNOW LOAD (Pq): SNOW EXPOSURE FACTOR (Ce): SNOW LOAD IMPORTANCE FACTOR (Is): SNOW LOAD THERMAL FACTOR (Ct): FLAT ROOF SNOW LOAD (Pf):
- 4. DESIGN WIND LOAD: ULTIMATE DESIGN WIND SPEED (VULT): WIND EXPOSURE: NTERNAL PRESSURE COEFFICIENT COMPONENTS & CLADDING PER ASCE 7-10
- 5. DESIGN SEISMIC LOADS: EQUIVALENT LATERAL FORCE PROCEDURE SEISMIC IMPORTANCE FACTOR (IE): MAPPED SPECTRAL RESPONSE ACCELERATIONS: SEISMIC SITE CLASS:
- SPECTRAL RESPONSE COEFFICIENTS: SEISMIC DESIGN CATEGORY: BASIC STRUCTURAL SYSTEM: BUILDING FRAME SYSTEM BASIC SEISMIC FORCE RESISTING SYSTEM: STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE (R-3) RESPONSE MODIFICATION FACTOR (R).

SEISMIC RESPONSE COEFFICIENT (CS):

6 FUTURE FLUSH PANEL PHOTO VOLTAIC: DEAD LOAD

FOUNDATION NOTES

- 1. FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE REPORT ENTITLED "GEOTECHNICAL ENGINEERING SERVICES PROPOSED ELEMENTARY SCHOOL, JORDAN ACRES SCHOOL SITE, BRUNSWICK, MAINE" PREPARED BY S.W. COLE ENGINEERING, INC. DATED 11/27/17. THE RECOMMENDATIONS OF THE REPORT ARE PART OF THIS WORK. REFER TO THIS REPORT FOR SPECIFIC RECOMMENDATIONS.
- 2. FOUNDATION DESIGN IS BASED ON SHALLOW SPREAD FOOTINGS BEARING ON SUITABLE UNDISTURBED NATIVE SOILS AND/OR NEW COMPACTED STRUCTURAL FILL EXTENDING TO UNDISTURBED NATIVE SOIL PER THE REQUIREMENTS OF THE GEOTECHNICAL REPORT. REFER TO THIS REPORT FOR SPECIFIC BEARING RECOMMENDATIONS
- 3. ALLOWABLE BEARING CAPACITY 3,000 PSF
- 4. EXTEND BOTTOM OF EXTERIOR FOOTINGS AT LEAST 4.5 FEET BELOW THE FINAL EXTERIOR GRADE FOR PROTECTION AGAINST FROST.
- 5. NO FILL FOR BUILDING SUPPORT SHALL BE PLACED UNTIL SUBGRADES HAVE BEEN OBSERVED AND APPROVED BY THE GEOTECHNICAL ENGINEER.
- 6. REFERENCE THE GEOTECHNICAL REPORT FOR ALL EXCAVATION, BACKFILL, COMPACTION, CONSTRUCTION DEWATERING AND PERMANENT DRAINAGE REQUIREMENTS.
- 7. SOILS EXPOSED AT THE BASE OF ALL SATISFACTORY FOUNDATION EXCAVATIONS SHOULD BE PROTECTED AGAINST ANY DETRIMENTAL CHANGE IN CONDITION, SUCH AS DISTURBANCE FROM RAIN OR FROST. SURFACE RUNOFF SHALL BE DRAINED AWAY FROM THE EXCAVATIONS AND NOT BE ALLOWED TO POND. FOUNDATION EXCAVATIONS SHALL BE ADEQUATELY PROTECTED FROM RAINFALL OR FREEZING CONDITIONS. GROUNDWATER SHOULD BE ANTICIPATED FOR EXCAVATIONS AND APPROPRIATE DEWATERING MEASURES SHALL BE EMPLOYED.
- 8. EXCAVATIONS FOR BUILDING CONSTRUCTION SHALL BE IN ACCORDANCE WITH OSHA REQUIREMENTS. BRACED EXCAVATIONS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF // MAINE. // DO NOT UNDERMINE EXISTING FOUNDATIONS OF ANY ADJACENT STRUCTURES. REFER TO THE GEOTECHNICAL REPORT FOR ADDITIONAL AND/OR MORE SPECIFIC REQUIREMENTS.

5

CONCRETE NOTES

1. CONCRETE WORK SHALL CONFORM TO THE ACI "MANUAL OF CONCRETE PRACTICE," INCLUDING BUT NOT LIMITED TO ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" AND ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE."

4

- 2. CONCRETE FOUNDATIONS SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3,500 PSI. CONCRETE SLABS SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3,000 PSI. EXTERIOR SLAB-ON-GRADE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 5,000 PSI. ADDITIONAL CONCRETE MIX PERFORMANCE DATA INCLUDING AIR CONTENT, WATER-CEMENT RATIO, AGGREGATE SIZE, SLUMP, ETC. HAS BEEN INCLUDED IN THE PROJECT SPECIFICATIONS. SEE THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- 3. CONCRETE SHALL NOT BE PLACED IN WATER OR ON FROZEN GROUND.
- 4. REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60 DEFORMED BARS AND SHALL BE DETAILED, FABRICATED, AND PLACED IN ACCORDANCE WITH ACI 315.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 AND SHALL BE PROVIDED IN FLAT SHEETS. LAP TWO SQUARES AT ALL JOINTS AND TIE AT 3'-0" ON CENTER.
- 6. FIBER REINFORCEMENT SHALL BE TYPE II SYNTHETIC VIRGIN HOMOPOLYMER POLYPROPYLENE FIBERS CONFORMING TO ASTM C1116.
- MINIMUM CONCRETE PROTECTIVE COVERING FOR REINFORCEMENT, UNLESS NOTED OTHERWISE, SHALL BE AS FOLLOWS: A. SURFACES CAST AGAINST AND PERMANENTLY IN CONTACT WITH EARTH,
- B. FORMED SURFACES IN CONTACT WITH EARTH OR EXPOSED TO WEATHER:
 - #5 BARS AND SMALLER, 1 1/2" #6 THROUGH #11 BARS, 2"
- C. SURFACES NOT IN CONTACT WITH EARTH OR EXPOSED TO WEATHER: WALLS, SLABS, AND JOISTS #11 AND SMALLER, 1" BEAMS, GIRDERS, AND COLUMNS; ALL REINFORCEMENT, 1 1/2"
- 8. REINFORCEMENT SHALL BE CONTINUOUS AROUND CORNERS AND AT INTERSECTIONS. PROVIDE LAPPED BARS AT NECESSARY SPLICES OR HOOKED BARS AT DISCONTINUOUS ENDS. SEE SCHEDULE FOR REQUIRED REBAR LAP SPLICE LENGTHS.
- 9. WELDING OF REINFORCEMENT IS NOT PERMITTED, UNLESS SPECIFICALLY INDICATED.
- 10. CONSTRUCTION AND CONTRACTION JOINTS SHOWN ON DRAWINGS ARE MANDATORY. OMISSIONS, ADDITIONS, OR CHANGES SHALL NOT BE MADE EXCEPT WITH THE SUBMITTAL OF A WRITTEN REQUEST TOGETHER WITH DRAWINGS OF THE PROPOSED JOINT LOCATIONS FOR APPROVAL OF THE STRUCTURAL ENGINEER. WHERE JOINTS ARE NOT SHOWN, OR WHEN ALTERNATE LOCATIONS ARE PROPOSED, DRAWINGS SHOWING LOCATION OF CONSTRUCTION AND CONTRACTION JOINTS AND CONCRETE PLACING SEQUENCE SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO PREPARATION OF THE REINFORCEMENT SHOP DRAWINGS CONCRETE SHALL BE PLACED WITHOUT HORIZONTAL CONSTRUCTION JOINTS EXCEPT WHERE SHOWN OR NOTED. VERTICAL CONSTRUCTION JOINTS AND STOPS IN CONCRETE BEAMS/GRADE BEAMS SHALL BE MADE AT MIDSPAN OR AT POINTS OF MINIMUM SHEAR, UNLESS NOTED OTHERWISE.
- 11. SPACING OF CONSTRUCTION OR CONTRACTION JOINTS, UNLESS NOTED OTHERWISE SHALL BE AS FOLLOWS: A. FOOTINGS AND WALLS: MAX SPACING OF 40'-0" OR 15'-0" FROM ANY CORNER. A MINIMUM OF 72 HOURS SHALL ELAPSE BETWEEN ADJACENT CONCRETE PLACEMENTS. COORDINATE JOINT LOCATIONS
- WITH VENEER CONTROL JOINT LOCATIONS WHEREVER POSSIBLE.

B. SLABS ON GRADE MAX SPACING IN EACH DIRECTION OF 36xSLAB DEPTH. LIMIT PLAN SPECT RATIOS TO 1.5.

- 12. ANCHOR RODS FOR STRUCTURAL STEEL ATTACHMENTS SHALL BE HEADED RODS CONFORMING TO ASTM F1554, GRADE 36 KSI WELDABLE STEEL, UNLESS NOTED OTHERWISE ON DRAWINGS. ANCHOR RODS FOR ATTACHMENT OF SILL PLATES SHALL BE A307, UNLESS NOTED OTHERWISE ON THE DRAWINGS. ANCHOR RODS THAT ARE TO BE IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE HOT-DIPPED GALVANIZED.
- 13. ALL GROUT BENEATH BASE PLATES & BEARING PLATES SHALL BE 5000-PSI (MIN) NON-SHRINK GROUT.
- 14. SLAB THICKNESSES INDICATED ON THE DRAWINGS ARE MINIMUMS. PROVIDE SUFFICIENT CONCRETE TO ACCOUNT FOR STRUCTURE DEFLECTION, SUBGRADE FLUCTUATIONS, AND TO OBTAIN THE SPECIFIED SLAB ELEVATION AT THE FLATNESS AND LEVELNESS INDICATED.
- 15. PROVIDE A 15-MIL POLYOLEFIN VAPOR RETARDER MEETING THE REQUIREMENTS OF ASTM E1745 CLASS A OVER PREPARED SUB BASE (U.N.O). REFERENCE ARCHITECTURAL DRAWINGS AND GEOTECHNICAL REPORT FOR ADDITIONAL REQUIREMENTS AND VAPOR RETARDER LOCATIONS.
- 16. FOR ALL OPENINGS IN CONCRETE WALLS AND SLABS, PROVIDE SUPPLEMENTAL REINFORCING AROUND OPENING AS SHOWN IN THE TYPICAL DETAILS.
- 17. PROVIDE PVC SLEEVES WHERE PIPES PASS THROUGH EXTERIOR CONCRETE OR SLABS CAST ON GRADE. ADJACENT SLEEVES SHALL BE SPACED A MINIMUM OF THREE DIAMETERS APART. NO PENETRATIONS SHALL BE MADE THROUGH FOOTINGS WITHOUT WRITTEN PERMISSION FROM ENGINEER.
- 18. INSTALLATION OF REINFORCEMENT SHALL BE COMPLETED AT LEAST 24 HOURS PRIOR TO THE SCHEDULED CONCRETE PLACEMENT. NOTIFY ARCHITECT AND STRUCTURAL ENGINEER OF COMPLETION AT LEAST 24 HOURS PRIOR TO THE SCHEDULED COMPLETION OF THE INSTALLATION OF REINFORCEMENT.
- 19 ALL ITEMS TO BE EMBEDDED INTO CONCRETE SHALL BE INSTALLED PRIOR TO PLACEMENT OF CONCRETE. PROVIDE ADDITIONAL REINFORCEMENT AND/OR TEMPLATES AS REQUIRED TO ENSURE THE CORRECT POSITIONS OF EMBEDMENTS. "WET SETTING" OF EMBEDMENTS INTO CONCRETE IS STRICTLY PROHIBITED. EMBEDMENTS INCLUDE, BUT NOT BY LIMITATION, REINFORCEMENT, REINFORCING DOWELS, EMBEDDED PLATES, ANCHOR RODS, ANCHOR INSERTS, SLEEVES, LOAD TRANSFER PLATES, DIAMOND DOWELS, AND SHELF BULK HEADS.

4

STRUCTURAL STEEL NOTES

- 1. STRUCTURAL STEEL DESIGN, DETAIL, FABRICATION, AND ERECTION SHALL CONFORM TO ANSI/AISC 360 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AND TO ANSI/AISC303 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES."
- 2. STRUCTURAL STEEL SHAPES SHALL CONFORM TO THE FOLLOWING. UNLESS NOTED OTHERWISE:
- A. STEEL PLATES, SHAPES, AND BARS: ASTM A36 B. WIDE-FLANGE SECTIONS: ASTM A992
- . HOLLOW STRUCTURAL SECTIONS (HSS): ASTM A500 GR. C D. PIPES: ASTM A53 GR. B
- 3. CONNECTION DESIGN FOR THIS PROJECT IS THE RESPONSIBILITY OF THE FABRICATOR, CONNECTION CALCULATIONS, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MAINE, SHALL BE SUBMITTED WITH THE SHOP DRAWINGS FOR THIS PROJECT. SEE THE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. DESIGN AND DETAIL ALL CONNECTIONS ACCORDING TO AISC STANDARD CONNECTION TABLES. DESIGN STANDARD BEAM CONNECTIONS FOR THE MAXIMUM LOAD CAPACITY OF THE MEMBER, U.N.O. ON THE SIMPLE SHEAR BEAM REACTION SCHEDULE.
- 4. BOLTED CONNECTIONS SHALL USE 3/4" ASTM F3125, GRADE A325, HIGH STRENGTH BOLTS (U.N.O.), EXCEPT WHERE SLIP CRITICAL CONNECTIONS ARE REQUIRED AND NOTED BY (SC) ON THE DRAWINGS OR AS REQUIRED BY CONNECTION DESIGN.
- 5. ALL WELDING SHALL CONFORM TO AWS D1.1. ELECTRODES SHALL CONFORM TO AWS A5.1 E70XX SERIES (U.N.O.) WITH PROPER ROD TO PRODUCE OPTIMUM WELD (LOW HYDROGEN)
- 6. SEE CONCRETE NOTES AND DRAWINGS FOR ANCHOR BOLT INFORMATION.
- 7. PROVIDE 1/4" THICK LEVELING PLATE AND 3/4" ± OF NON SHRINK GROUT UNDER ALL COLUMN BASE PLATES (U.N.O.). LEVELING PLATES SHALL BE SET AND GROUTED PRIOR TO ERECTING COLUMNS. LEVELING NUTS MAY BE USED AS AN ALTERNATE PROVIDED BASEPLATES ARE SHIMMED IN ACCORDANCE WITH AISC SPECIFICATIONS UNTIL SUCH TIME AS THE BASEPLATE IS GROUTED.
- 8. COAT ALL COLUMNS, BASEPLATES, AND BRACE ELEMENTS ENCASED IN CONCRETE OR BELOW GRADE WITH BITUMINOUS MASTIC ON TNEMEC H.B. TNEMECOL (46-465) COAL TAR PAINT (U.N.O.).
- 9 PROVIDE ALL MISCELLANEOUS ANGLES, PLATES, ANCHOR BOLTS, ETC. SHOWN ON ARCHITECTURAL DRAWINGS. COORDINATE WITH MISCELLANEOUS METAL FABRICATOR TO ENSURE COMPLETE COVERAGE OF ALL ITEMS.

- SPECIFICATIONS OF THE STEEL JOIST INSTITUTE (SJI).

- ADDITIONAL BRIDGING FOR UPLIFT AT ROOF JOISTS.

- STEEL DECK INSTITUTE (SDI).
- ACCESSORIES.
- COMPATIBLE WITH TOP COAT.

REF

| | | | I | WALL C | OMPON | ENTS & | CLADD | ING NET | T WIND F | PRESSU | RES (PS | F) | | | |
|----|-----|-------|---------|--------|---------|--------|-------|--------------------------|----------|--------|---------|----|-----|-----|-----|
| | | | ZOI | NE 4 | | | | | | | ZONE | 5 | | | |
| | | TRIBL | JTARY A | REA (S | Q. FT.) | | | TRIBUTARY AREA (SQ. FT.) | | | | | | | |
| 1 | 0 | 20 | | 50 | | 100 | | 10 | | 20 | | 50 | | 100 | |
| 26 | -28 | 25 | -27 | 24 | -26 | 23 | -25 | 26 | -34 | 25 | -32 | 24 | -29 | 23 | -27 |

COL (SEE PLAN)

(SEE PLAN)

NOTE: FOR FOOTING SIZE &

REINF SEE SCHEDULE.

TYP INTERIOR FOOTING DETAIL U.N.O.

FILL POCKET W/CONC

CONC SLAB ON GRADE

ROOF TYPE: FLAT ROOF a= 8 FT

N.T.S.

| | | | | | | RO | OF COM | PONEN | TS & CL | ADDING | NET WI | ND PRE | SSURES | 6 (PSF) | | | | | |
|----|-----|--------|---------|---------|--------|----|--------|-------|---------|--------|---------|--------|---------|---------|-----|----|-----|-------|----|
| | | | ZON | IE 1 | | | | | | | ZOI | NE 2 | | | | | | | |
| | | TRIBUT | TARY AF | REA (SQ | . FT.) | | | | | TRIBL | JTARY A | REA (S | Q. FT.) | | | | | TRIBU | IT |
| 1 | 0 | 2 | 0 | 5 | 50 | 1 | 100 | 1 | 10 | 2 | 20 | 5 | 0 | 1 | 00 | 1 | 0 | 2 | 0 |
| 12 | -28 | 11 | -27 | 10 | -27 | 9 | -26 | 12 | -47 | 11 | -42 | 10 | -35 | 9 | -30 | 12 | -70 | 11 | |

ROOF TYPE: FLAT ROOF a= 8 FT

| | REF |
|-----------------------|---|
| | |
| 1/4"x2"x2 WASHER | " PL (TYP) |
| REF | |
| TYP ALL PL 3/16 | |
| WASHENS | PL 3/4x10x0'-10" W/(4)-1 5/16"Ø FOR (4)-3/4"Ø F1554 GR36 ANC RODS W/9" EMBED & 5" PROJ. |
| | |

REF

| BP-DC1 | |
|--------|--|

REF

1'-4"

-

<u>P1</u>

| FO | FOOTING SCHEDULE | | | |
|-----------------|-------------------|------------------------------|--|--|
| FOOTING MARK | FOOTING SIZE | REINF EACH WAY BOT U.N.O. | | |
| F2 | 2'-0"x2'-0"x1'-0" | 3#4 | | |
| F3 | 3'-0"x3'-0"x1'-0" | 3#4 | | |

SIMPLE SHEAR BEAM CONNECTION SCHEDULE

| BEAM SIZE | DESIGN REACTION | MIN No. BOLTS - ONE SIDED CONNECTION | MIN No. BOLTS - TWO SIDED CONNECTION |
|--------------|-----------------|---|---|
| W8/W10 | 15K | 2 | 2 |
| W12/W14 | 20K | 3 | 3 |
| W16/W18 | 35K | 4 | 3 |
| W21 | 45K | 5 | 4 |
| W24 | 60K | 6 | 5 |
| W27 | 70K | 7 | 6 |
| W30 | 80K | 7 | 6 |

SIMPLE SHEAR CONNECTIONS NOTES:

2.

5

- SIMPLE SHEAR CONNECTIONS SHALL BE SELECTED FROM THE AISC "MANUAL OF STEEL CONSTRUCTION, THIRTEENTH EDITION" USING THE ABOVE REFERENCED REACTIONS AND CRITERIA. REACTIONS INDICATED ARE UNFACTORED (SERVICE LEVEL LOADS). MORE BOLTS THAN REFERENCED IN THE "MINIMUM" SECTIONS ABOVE MAY BE REQUIRED FOR LOAD REQUIREMENTS.
- CONNECTIONS ARE SUBJECT TO REVIEW ON THE STEEL SHOP DRAWINGS.
- ALL BOLTS SHALL BE A325 OR A490 FOR SIMPLE SHEAR CONNECTIONS, MIN 3/4"Ø.
- MINIMUM WELD SIZE SHALL BE 5/16". MINIMUM ANGLE/PLATE THICKNESS SHALL BE 3/8". ONE SIDED CONNECTIONS INCLUDE SINGLE PLATES AND SINGLE ANGLE CONNECTIONS.
- TWO SIDED CONNECTIONS INCLUDE DOUBLE ANGLE AND END PLATE CONNECTIONS.

В

4

BRACED FRAME ELEVATIONS

<u>NOTES:</u>

1/4"=1'-0"

- LOADS INDICATED ON BRACED FRAME ELEVATIONS --K ARE 1. UNFACTORED LOADS AND MAY ACT IN TENSION AND COMPRESSION.
- LOADS INDICATED HAVE BEEN GENERATED USING R=3. CONNECTIONS 2
- DO NOT REQUIRE ADDITIONAL OVERSTRENGTH FACTORS. CONNECTIONS SHALL BE DESIGNED TO NOT INDUCE MOMENT INTO 3.
- BEAMS AND COLUMNS, BEYOND THAT FORCED BY MEMBER GEOMETRY. PROVIDE ANGLE BRACE AT ALL DIAGONAL CONNECTIONS LOCATED 4.
- WITHIN SPAN OF BEAM. S.L. INDICATES SHEAR LUG. SEE ADDITIONAL INFORMATION ON S4.1.
- LOADS INDICATED ON JOINTS P=--K ARE UNFACTORED AXIAL LOADS TO BE DESIGNED TO PASS THROUGH COLUMN INTO ADJACENT BEAM AND MAY ACT IN TENSION OR COMPRESSION. CONNECTION DESIGNER TO CHECK COLUMN WALL TO CONFIRM IF THROUGH PLATE IS REQUIRED. 7.
- CONNECTION DESIGN CALCULATIONS SHALL BE SUBMITTED FOR REVIEW PER SPECIFICATIONS AND SHALL BE STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MAINE AND SHALL INCLUDE THE FOLLOWING:
 - GEOMETRY NECESSARY FOR UNIFORM FORCE Α.
- METHOD CALCULATIONS. ALL APPLICABLE FAILURE MODE CHECKS. В.

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