WOLFEBORO PUBLIC SAFETY BUILDING

OWNER: TOWN OF WOLFEBORO PO BOX 629 WOLFEBORO, NH 03894 CONSTRUCTION MANAGER: CONNESTON CONSTRUCTION, INC 132 S MAIN STREET LACONIA, NH 03246 T: (603) 524-3776

CIVIL: NORWAY PLAINS ASSOCIATES, INC TFMORAN, INC 2 CONTINENTAL BLVD ROCHESTER, NH 03867 T: (603) 335-3948



CIVIL DRAWINGS

E-1EXISTING FEATURES

- C-1 SITE PLAN
- C-2 GRADING AND DRAINAGE PLAN C-3 UTILITY PLAN
- C-4 PARKING AND SIDEWALK DETAILS C-5 DRAINAGE DETAILS
- C-6 STORMTECH DETAIL
- C-7 UTILITY DETAILS

<u>STRU(</u>	CTURAL DRAWINGS	<u>ARCHI</u>
S001	GENERAL STRUCTURAL NOTES	
S002	GENERAL STRUCTURAL NOTES (CONT.)	PHS-1
S003	GENERAL STRUCTURAL NOTES (CONT.)	AD101
S004	STATEMENT OF SPECIAL INSPECTIONS	A001
S005	STATEMENT OF SPECIAL INSPECTIONS	A101
S006	STATEMENT OF SPECIAL INSPECTIONS	A102
S101	FOUNDATION PLAN	A103
S102	SECOND FLOOR FRAMING PLAN	A121
S103	ROOF FRAMING PLAN	A122
S104	TOWER AND CARPORT FRAMING PLAN	A201
S111	PHASE 3 – REHAB FRAMING PLANS	A202
S201	COLUMN SCHEDULE	A300
S202	COLUMN SCHEDULE AND PIER DETAILS	A302
S203	COLUMN BASE PLATE DETAILS	A303
S301	TYPICAL FOUNDATION DETAILS	A310
S302	TYPICAL FOUNDATION DETAILS	A400
S303	FOUNDATION SECTIONS AND DETAILS	A500
S401	TYPICAL STEEL FRAMING DETAILS	A501
S402	TYPICAL STEEL FRAMING DETAILS	A601
S403	TYPICAL STEEL FRAMING DETAILS	A602
S404	TYPICAL STEEL FRAMING DETAILS	A603
S405	TYPICAL STEEL FRAMING DETAILS	A801
S406	TYPICAL STEEL FRAMING DETAILS	A802
S407	STEEL FRAMING SECTIONS AND DETAILS	A900
S408	STEEL FRAMING SECTIONS AND DETAILS (CONT.)	
S501	TYPICAL WOOD FRAMING DETAILS	
S502	TYPICAL WOOD SHEAR WALL AND CONNECTION DETAILS	
S503	TYPICAL WOOD TRUSS BRACING DETAILS	
S504	TYPICAL WOOD FRAMING DETAILS	
S601	TYPICAL MASONRY DETAILS	
S701	TYPICAL CFS DETAILS	

VITAL INFORMATION REQUIRED FOR THE SUCCESSFUL COMPLETION OF THE WORK IS CONTAINED IN THE PROJECT MANUAL PREPARED FOR THIS PROJECT.

251 SOUTH MAIN STREET, WOLFEBORO, NH DESIGN DEVELOPMENT 05-31-2023

Team List

STRUCTURAL: 48 CONSTITUTION DRIVE BEDFORD, NH 03110 T: (603) 472-4488

ARCHITECT: BANWELL ARCHITECTS, NH 6 SOUTH PARK STREET LEBANON, NH 03766 T: (603) 448-3778

MEP/FP: CHARLES P. BUCKLEY, P.E. 500 DEPOT STREET RUMNEY, NH 03266 T: (603) 786-9992

ARCHITECTURAL DRAWING LIST

PHASING PLAN DEMOLITION PLANS GENERAL NOTES, ABBREVIATIONS, WALL TYPES LEVEL 1 FLOOR PLAN LEVEL 2 FLOOR PLAN ROOF PLAN LEVEL 1 REFLECTED CEILING PLAN LEVEL 2 REFLECTED CEILING PLANS EXTERIOR ELEVATIONS EXTERIOR ELEVATIONS BUILDING SECTIONS WALL SECTIONS WALL SECTIONS EXTERIOR DETAILS ENLARGED STAIR PLANS AND SECTIONS ENLARGED RESTROOM PLANS AND SCHEDULES ENLARGED RESTROOM PLANS DOOR SCHEDULES DOOR SCHEDULES WINDOW SCHEDULES LEVEL 1 FINISH PLAN LEVEL 2 FINISH PLAN 3D SKETCHES

MECHANICAL DRAWINGS

M101	HVAC NOTES, SYMBOLS AND DETAILS
M102	HVAC SCHEDULES
M103	LEVEL 1 HVAC PLAN
M104	LEVEL 2 HVAC PLAN
M105	LEVEL 1 RADIANT FLOOR HEATING PLAN
M106	HVAC DETAILS
M107	HVAC DETAILS
M108	HVAC DETAILS
M109	HVAC DETAILS

PLUMBING DRAWINGS

P101	PLUMBING NOTES, SYMBOLS AND DETAILS
P102	LEVEL 1 PLUMBING PLAN – WASTE AND VENT PIPING
D103	LEVEL 2 DELIMBING DEAN WASTEAND VENT DIDING

- P103 LEVEL 2 PLUMBING PLAN WASTE AND VENT PIPING P104 LEVEL 1 PLUMBING PLAN – WATER AND GAS PIPING
- P105 LEVEL 2 PLUMBING PLAN WATER AND GAS PIPING
- P106 ROOF DRAINAGE PLAN
- P107 PLUMBING DETAILS

ELECTRICAL DRAWINGS

- E101 ELECTRICAL NOTES, SYMBOLS AND DETAILS
- E102 LEVEL 1 ELECTRICAL POWER PLAN
- E103 LEVEL 2 ELECTRICAL POWER PLAN E104 LEVEL 1 LIGHTING PLAN
- E105 LEVEL 2 LIGHTING PLAN
- E106 ELECTRICAL RISER DIAGRAM AND GROUNDING AND BONDING DETAIL
- E107 ELECTRICAL PANEL SCHEDULES

 \bigcirc B Ĺ 4



Drawing Location: M:\2022\22364\DWGS\22364 SP-1 Fri, 26 May 2023 - 3:04pm









CONCRETE FILLED		SIGN SIZE		_	NO.
	ITEM NO.	HEIGHT	WIDTH	TEXT	SIGNS REQ'D
	R1-1	30"	30"	STOP	1
CLEAN GRAVEL COMPACTED TO 95%	R7-8a	18"	12"	RESERVED PARKING	9
	R7-8b	6"	12"	VAN ACCESSIBLE	3
LE LE WITH GRANULAR FILL AND		18"	12"	VISITOR PARKING ONLY	12
TED 3/4" CRUSHED GRAVEL TED GRAVEL (NHDOT 304.2). N PAVEMENTS SHALL BE TACK UT IN NOT CASE SHALL BE LESS	R6-1	12"	36"	ONE WAY	1
ING BACK THE FULL DEPTH DISTURBED TRENCH AND THE PAVEMENT AS TO COAD SURFACE. THE FOLLOWING YEAR GES OF THE PREVIOUS	R5-1	30"	30"	DO NOT	8
NS TO A DEPTH OF 1.5". TO CREATE A SMOOTH ITS OF THE MILLED AREA. BY DPW AND IS SUBJECT TO STANDARDS.	W11A-2	30"	30"		2





PREPARED FOR:

MAY 31, 2023

C-4





TYPICAL UNDERDRAIN NOT TO SCALE

CIVIL ENGINEERS

CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GEOTECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITH IN THE PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS





DRAINAGE DETAILS TAX MAP 231, LOT 57 251 SOUTH MAIN STREET CARROLL COUNTY WOLFEBORO, N.H. PREPARED FOR: TOWN OF WOLFEBORO

MAY 31, 2023







COLLECTION CHAMBERS", OR ASTM F2922 "STANDARD SPECIFICATION FOR POLYETHYLENE (PE) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".









CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GEOTECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITH IN THE PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS ASSOCIATES, INC. (603)-335-3948.



NORWAY PLAINS ASSOCIATES, INC.

CIVIL ENGINEERS

CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GEOTECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITH IN THE PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS ASSOCIATES, INC. (603)-335-3948.



I. ALL NON-METALLIC CONDUIT AND FITTINGS SHALL BE ELECTRICAL GRADE, SCHEDULE 40 PVC, AND SHALL CONFORM TO THE APPLICABLE SECTIONS OF NEMA TC2-1990 AND BE UL LISTED. <u>ONLY GRAY-COLORED CONDUIT WILL BE ACCEPTED</u>. ANY PVC CONDUIT NOT HAVING THE PROPER NEMA AND UL MARKINGS WILL NOT BE ACCEPTED. ALL STEEL CONDUITS SHALL CONFORM TO ASTM A120 AND BE RIGID GALVANIZED STEEL. ALL PVC JOINTS MUST BE CEMENTED. STEEL FITTINGS SHALL BE SEALED WITH COMPOUND. 2. ALL 90 DEGREE SWEEPS WILL BE MADE USING RIGID GALVANIZED STEEL WITH A MINIMUM RADIUS OF 36 INCHES FOR PRIMARY CABLES AND 24 INCHES

FOR SECONDARY CABLES. ALL STEEL SWEEPS WITHIN 18" OF THE SURFACE SHALL BE PROPERLY GROUNDED. A 10-FOOT HORIZONTAL SECTION OF RIGID GALVANIZED STEEL CONDUIT WILL BE REQUIRED AT EACH SWEEP, UNLESS IN THE OPINION OF THE PSNH DESIGNER, THE SWEEP-PVC JOINT IS NOT SUBJECT TO FAILURE DURING CABLE PULLING.

THE CONDUIT SHALL CROSS PAVED AREAS AT APPROXIMATELY 90 DEGREES. BACKFILL MAY BE MADE WITH EXCAVATED MATERIAL OR COMPARABLE, UNLESS MATERIAL IS DEEMED UNSUITABLE BY PSNH. BACKFILL SHALL BE FREE OF FROZEN LUMPS, ROCKS, DEBRIS, AND RUBBISH. ORGANIC MATERIAL SHALL NOT BE USED AS BACKFILL. BACKFILL SHALL BE THOROUGHLY COMPACTED IN 6-INCH LAYERS. 6. A SUITABLE PULL STRING, CAPABLE OF 200 POUNDS OF PULL, MUST BE INSTALLED IN THE CONDUIT BEFORE PSNH IS NOTIFIED TO INSTALL CABLE.

THE STRING SHOULD BE BLOWN INTO THE CONDUIT AFTER THE RUN IS ASSEMBLED TO AVOID BONDING THE STRING TO THE CONDUIT. ROUTING OF THE CONDUIT AND INSPECTION PRIOR TO BACKFILL WILL BE PROVIDED BY PSNH. INSTALLATION OF THE CONDUIT WILL BE DONE BY THE CONTRACTOR. THE PSNH SUPERVISOR MUST BE NOTIFIED 2 BUSINESS DAYS PRIOR TO BACKFILLING THE TRENCH. IN THE EVENT THAT A CABLE

CANNOT BE SUCCESSFULLY PULLED THROUGH THE COMPLETED CONDUIT SYSTEM DUE TO A CONSTRUCTION ERROR, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND REPAIR THE INVOLVED CONDUIT. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL RESULTING EXPENSES. 8. NORMAL CONDUIT SIZES FOR PSNH ARE 3-INCH FOR SINGLE PHASE PRIMARY AND SECONDARY VOLTAGE CABLES, 4-INCH FOR THREE PHASE

SECONDARY, AND 5-INCH FOR THREE PHASE PRIMARY. 9. ALL CONDUIT INSTALLATIONS MUST CONFORM TO THE CURRENT EDITION OF THE NATIONAL ELECTRIC SAFETY CODE, STATE AND LOCAL CODES AND

ORDINANCES, AND WHERE APPLICABLE THE NATIONAL ELECTRIC CODE. 10. CONDUIT MAY BE INSTALLED BY EXCAVATING AN OPEN TRENCH WITH SIDE SLOPES OF 1:1 MAXIMUM TO A DEPTH OF 4-FT. INSTALLATIONS DEEPER THAN 4-FT REQUIRE THE USE OF A TRENCH BOX.

ELECTRICAL & UNDERGROUND UTILITY TRENCH INSTALLATION DETAIL

NOT TO SCALE

UTILITY DETAILS TAX MAP 231, LOT 57 251 SOUTH MAIN STREET CARROLL COUNTY WOLFEBORO, N.H. PREPARED FOR: TOWN OF WOLFEBORO MAY 31, 2023

2 Continental Blvd., Rochester, N.H. 603-335-3948

ABBREVIATIONS:

2x = 2" NOMINAL THICK LUMBER

AB = ANCHOR BOLT AFF = ABOVE FINISH FLOOR ALT. = ALTERNATE ALUM. = ALUMINUM APPROX. = APPROXIMATE ARCH. = ARCHITECTURAL

B/. B/O = BOTTOM OF . BCX = BOTTOM CHORD EXTENSION BJ = BAR JOIST BLDG. = BUILDING BM. = BEAM BOT. = BOTTOM BP = BASE PLATE BRG. = BEARING BRP = BEARING PLATE BS = BRICK SHELF BTW = BETWEEN

CANT. = CANTILEVER CFS = COLD FORMED STEEL CIP = CAST IN PLACE CJ = CONTROL JOINT CL. = CENTERLINE CLR. = CLEAR CMU = CONCRETE MASONRY UNIT COL. = COLUMN CONC. = CONCRETE CONST. = CONSTRUCTION CONT. = CONTINUOUS COORD. = COORDINATE CTR. = CENTER

DBL = DOUBLE Ø / DIA. = DIAMETER DIM. = DIMENSION DIST. = DISTANCE DJ = DOUBLE JOIST DK = DECK DN. = DOWN DWGS. = DRAWINGS

EA. = EACH EF = EACH FACE EIBC = EXISTING INTERNATIONAL BLDG. CODE EL. = ELEVATION ELEC. = ELECTRICAL ELEV. = ELEVATOR EMBED. = EMBEDMENT ENG = ENGINEER EOD = EDGE OF DECK EOR = ENGINEER OF RECORD EOS = EDGE OF SLAB EQ. = EQUAL ERV = ENERGY RECOVERY UNIT EW = EACH WAY E. / EX. / EXIST. = EXISTING EXP. = EXPANSION EXT. = EXTERIOR

FFE = FINISHED FLOOR ELEVATION FIN. = FINISHED FLR. = FLOOR FNDN. = FOUNDATION FT. = FEET FTG. = FOOTING

GA. = GAUGE GALV. = GALVANIZED GC = GENERAL CONTRACTOR GEOTECH. = GEOTECHNICAL

HD = HOLDOWN HDG = HOT DIPPED GALVANIZED HORIZ. = HORIZONTAL HSS = HOLLOW STRUCTURAL SECTION

IBC = INTERNATIONAL BLDG. CODE IF = INSIDE FACE IN. = INCH INT. = INTERIOR

JNT. = JOINT JP = JOIST BEARING PLATE JST. = JOIST

K = KIP

LB = POUND LGM = LIGHT GAUGE METAL LLH = LONG LEG HORIZONTAL LLV = LONG LEG VERTICAL LONG. = LONGITUDINAL L.P. = LOW POINT LP = LEVELING PLATE LSL = LAMINATED STRAND LUMBER LVL = LAMINATED VENEER LUMBER

MANUF. = MANUFACTURER MAX. = MAXIMUM MECH. = MECHANICAL MEP = MECHANICAL, ELECTRICAL, PLUMBING MIN. = MINIMUM ML = MASONRY LINTEL MO = MASONRY OPENING MPH = MILES PER HOUR MAS. / MSNRY. = MASONRY MTL. = METAL

NIC = NOT IN CONTRACT/SCOPE #/No. = NUMBER NTS = NOT TO SCALE

OC / o.c. = ON CENTER OF = OUTSIDE FACE OPNG. = OPENING OSB = ORIENTED STRAND BOARD

PAF = POWDER ACTUATED FASTENER PC = PRECAST PE = PROFESSIONAL ENGINEER PEMB = PRE-ENGINEERED METAL BLDG. PL. = PLATE PLF = POUNDS PER LINEAR FOOT PRE-ENG. = PRE-ENGINEERED PSF = POUNDS PER SQUARE FOOT PSI = POUNDS PER SQUARE INCH PSL = PARALLAM STRAND LUMBER PT = PRESSURE TREATED PWD. = PLYWOOD

8

ABBREVIATIONS (con'd):

RAD. = RADIUS REC. = RECOMMENDATION REINF. = REINFORCING / REINFORCE(D) REQ'D. = REQUIRED REV. = REVISION RF = ROOF RO = ROUGH OPENING RTU = ROOF TOP UNIT

SCHD. = SCHEDULE SE = STRUCTURAL ENGINEER SF = SQUARE FEET SIM. = SIMILAR SPEC. = SPECIFICATION STD. = STANDARD STIFF. = STIFFENER / STIFFEN(ED) STL. = STEEL STRUCT. = STRUCTURAL

TBD = TO BE DETERMINED T/, T/O = TOP OF. TCX = TOP CHORD EXTENSION THK. = THICK TJ = TIE JOIST T/O BS, TOBS = TOP OF BRICK SHELF T/O STL, TOS = TOP OF STEEL T/O WALL, TOW = TOP OF WALL TRANS. = TRANSVERSE TYP. = TYPICAL

U/S = UNDERSIDE UNO = UNLESS NOTED OTHERWISE VB / VR = VAPOR BARRIER / RETARDER VERT. = VERTICAL

VIF = VERIFY IN FIELD W/ = WITH W/O = WITHOUT WD. = WOOD WL. = WALL WK. PT. = WORK POINT WS. = WATERSTOP WWF / WWM = WELDED WIRE FABRIC / MESH

<u>GENERAL</u>

1. Structural drawings shall be used in conjunction with the architect and shop drawings, and specifications.

- 2. Unless otherwise noted, sections, details, notes, materials, and m are to be considered typical for all similar conditions.
- 3. In the event of a conflict between plans, specifications, and detail be notified immediately for clarification.
- 4. Existing structural drawings have not been provided, the existing will require field verification. The general contractor must field ver framing for coordination with newly detailed structural assemblies these drawings, the engineer has assumed all walls and framing vertically and horizontally and all members are sound. Depending may be necessary to modify the design. The G.C. must notify the varying conditions prior to beginning construction.
- 5. All dimensions, elevations, and conditions must be verified in the discrepancies between these drawings and as-built conditions sh of the Structural Engineer before proceeding with any work.
- 6. The structure has been designed to be self-supporting and stable drawings has been completed. The contractor shall be responsible structure prior to the completion of work including, but not limited bracing, erection methods, erection sequence, and forms require Temporary supports required for stability during all intermediate s designed, furnished, and installed by the Contractor.
- 7. The Contractor shall provide and maintain shoring and bracing su stability and prevent movement, settlement, or collapse of adjace
- 8. All shoring and bracing shall be designed and certified by a profes the jurisdiction of the project. Submittals to the Structural Engineer review and approval are required prior to the start of construction
- 9. A complete concrete placement schedule shall be submitted to th stamped acceptance received before any concrete placement ca
- 10. Shop drawings shall be submitted to the Structural Engineer (see items and requirements). Fabrication shall not proceed until a sat the Contractor is proceeding at their own risk if failure to do so. En final reviewed shop drawings only.
- 11. Items noted on drawings as "by others" or "designated for design and supply of structural items not by TFM. These items are a des be submitted for approval. See Deferred Submittals.
- 12. Deferred submittals shall be submitted to the Structural Engineer steel connection design (stamped), steel stair design (stamped), (stamped), and wood truss designs (stamped).
- 13. Mechanical equipment weights used in the design of supporting of drawings. The Contractor shall notify the Structural Engineer prior actual weight exceeds weight shown on drawings.
- 14. Loads, openings, and structure relating to other non-structural dis purposes only. Refer to architectural and mechanical drawings fo
- 15. These plans were prepared under the supervision of a licensed p Inc. assumes no liability as a result of any changes or non-confor upon the written approval of the Engineer of Record.
- 16. TFMoran Inc. assumes no liability for work performed without an a and inspection as approved by the Engineer of Record.
- 17. Reproduction of structural drawings for shop drawings is not pern will not be provided to the Contractor unless a transfer agreemen the Structural Engineer and the Contractor.
- 18. All work shall comply with the building codes referenced on these 19. Do not scale drawings. Contact the Architect or Structural Engine specifically shown.

CODE:

6

5

- 1. 2018 International Building Code as amended, altered, or deleted Hampshire State Building Code.
- 2. 2018 International Existing Building Code as amended, altered, or the New Hampshire State Building Code.

5	4	3	2
	DESIGN LOADS:		FOUNDATIONS:
tural, mechanical, electrical	 FLOOR LIVE LOADS: MINIMUM UNIFORM LIVE LOADS AND MINIMU (Each floor area with Live Loads over 50 psf shall 	IM CONCENTRATED LIVE LOADS be clearly marked):	 Foundations have been designed to con inorganic, undisturbed natural soil or cor pressure of 3000 pounds per square foc S W Cole Engineering the dated May 2
nethods shown on drawings	OCCUPANCY or USE	UNIFORM CONCENTRATED	reccomendations. The contractor is resp failure to do so will result in a disclaimer
ls, the Structural Engineer shall	Office Buildings Corridors (above first floor):	80 psf 2000 lb.	2. Refer to the geotechnical engineering re
conditions are unknown and rify and review all existing	Offices:	50 psf 2000 lb.	 Refer to the geotechnical engineering re
s. For the purpose of preparing are plumb, level, align	Partitions:	15 psf (for Live Loads<80 psf)	4. Unless otherwise noted, foundations sha
g on conditions encountered, it e Structural Engineer (SE) of	Stairs and Exits:	100 psf 1000 lb.	5. The bottom of perimeter and exterior for
field by the Contractor Any	Gymnasiums:	100 psf	6. Keep foundation excavations free of wat
hall be brought to the attention	Roofs: Ordinary flat and pitched: Attic space / catwalk:	20 psf 40 psf 300 lb.	footings from freezing and frost action de7. Bottom of excavations shall be reviewed
le for the stability of the to, jobsite safety, all shoring,	Storage: Light (Armory):	125 psf	 8. Provide formwork for all footings, walls,
d during construction. stages of construction shall be	Live load has been reduced on girders, columns, a building code.	and footings in accordance with the	foundations are not allowed. 9. Place backfill simultaneously on both sid
upports as required to preserve ent construction to remain.	CONCENTRATED FLOOR LOADS: If listed above, the concentrated load shall be use Unless otherwise specified, the indicated concent	ed to determine the greatest load effect. Tration shall be assumed to be uniformly	has been poured and/or the concrete ha 10. Provide 3/4" maximum aggregate within
ssional engineer licensed in er of all shoring and bracing for	distributed over an area of 2 1/2 ft ² and located to	produce the maximum load effects	Geotechnical Engineer.
	2. ROOF SNOW LOAD: Risk Category		 The bottom three (3) inches of footing ex or by hand shovel.
ne Structural Engineer and a In be made.	Ground Snow Load, Pg: Allowed Reduction per ERDC/CRREL TR-02-6: Ground Snow Load per ERDC/CRREL TE-02-6:	90 psf at 1000 ft 0.01*(1000-600)*2.1=8.4 psf 81.6 psf at 600 ft	12. Use lean concrete (f'c = 1,500 psi) or str
e each section for specific	Snow Load Importance Factor, Is: Snow Exposure Factor. Ce:	1.2 1.0	 Refer to site, plumbing, mechanical, and conduit. Provide pipe sleeves for all pipe
rection shall be executed from	Thermal Factor, Ct:	1.1 (Garage and insulated roof) (1.2 at Unheated Areas)	14. The G.C. shall identify all below grade u
by others" indicates design signated design item that shall	Flat Roof Snow Load, Pf: Drifting, sliding, and unbalanced snow loads: Drift Surcharge Load(s), Pd: Width of snow drift(s), w:	75.4 psf (82.3at Unheated Areas) Per ASCE-7 See plan(s)/diagram See plan(s)/diagram	15. Submittals to the Structural Engineer an material.
for Geopier design (stamped), CFSF curtain wall design	3. RAIN LOADS: Rain Loads:	Per ASCE-7	
elements are indicated on the	4. ROOF LIVE LOAD: Roof live load:	20 psf MIN	
r to installation of equipment if	5. DEAD LOAD:		
sciplines are shown for bidding or the full scope of work.	Roof Steel framed: Truss Top Chord / Bottom Chord: Solar Array Allowance:	20 psf(non-ballasted) 10 psf (each) 7 psf	
professional engineer. TFMoran rmance with these plans except	Floor (Supported / Elevated): Design of composite floor framing members: Light / Wood framed:	78 psf 12 psf	
acceptable program of testing	6. WIND DESIGN DATA:		
nitted. Electronic drawings files	Wind loads have been determined using ASCE-7 Heights	Direction Procedure for Buildings of all	
It has been completed between	Risk Category: Basic Design Wind Speed, V: Wind Exposure Category:	IV 124 mph D	
e drawings.	Internal Pressure Coefficient: Components and Cladding Design Wind Pressure	±0.18 e:	
eer for dimensions not	MONOSLOPE Zone Per ASCE-7 MAX Positive (20 ft/	2) MAX Negative (20ft ²)	
	1 XX psi 1 XX psf 2 XX psf	XX psf XX psf XX nsf	
hy the provisions of the New	3 XX psf 3 XX psf	XX psf XX psf	
	4 XX psf 5 XX psf	XX psf XX psf	
r deleted by the provisions of	GABLE	2 MAX Negative (20ff ²)	
	1 & 2E XX psf	-) MAX Negative (2011-) XX psf XX nsf	
	3r XX psf 3 XX psf	XX psf XX psf XX psf	
	4 XX psf 5 XX psf	XX psf XX psf	
	 FARTHQUAKE DESIGN DATA: Risk Category: Seismic Importance Factor, le: 0.2s Mapped Spectral Response Acceleration, Ss 1.0s Mapped Spectral Response Acceleration, S1 0.2s Spectral Response Coefficient, Sds: 1.0s Spectral Response Coefficient, Sd1: Site Class: 	IV 1.5 5: 0.339g 1: 0.079g 0.346g 0.126g	
	Seismic Design Category: Basic Seismic-Force-Resisting System:	D Steel Intermediate Moment	
	Analysis Procedure: Response Modification Factor, R: Seismic Response Coefficient, Cs: Deflection Amplification Factor, Cd: Design Base Shear V:	Frames (IMF) Equivalent Lateral Force 4.5 0.102 4.0 248 75 kins	
	 Buccondation; V. Bee Foundation General Notes for additional infor 	mation.	
	9. Flood Load: The structure is not designed for flood bazard are	as, nor to be submerged or subject to	
	wave action.		S001 GENERAL STRUCTURAL NOTES
	10. Other Loads: Guardrails		S002 GENERAL STRUCTURAL NOTES (CONT.) S003 GENERAL STRUCTURAL NOTES (CONT.)
	Top Rail Concentrated Load: Top Rail Uniform Load:	200 lbs 50 plf	SU04STATEMENT OF SPECIAL INSPECTIONSS005STATEMENT OF SPECIAL INSPECTIONS
	Elevator Hoist Beam:	6000 lbs	S006STATEMENT OF SPECIAL INSPECTIONSS101FOUNDATION PLAN
			S102 SECOND FLOOR FRAMING PLAN S103 ROOF FRAMING PLAN

2

S111 PHASE 3 - REHAB FRAMING PLANS

S203 COLUMN BASE PLATE DETAILS

S301 TYPICAL FOUNDATION DETAILS

S302 TYPICAL FOUNDATION DETAILS

S202 COLUMN SCHEDULE AND PIER DETAILS

S303 FOUNDATION SECTIONS AND DETAILS

S401 TYPICAL STEEL FRAMING DETAILS

S402 TYPICAL STEEL FRAMING DETAILS S403 TYPICAL STEEL FRAMING DETAILS

S404 TYPICAL STEEL FRAMING DETAILS

S405 TYPICAL STEEL FRAMING DETAILS S406 TYPICAL STEEL FRAMING DETAILS

S501 TYPICAL WOOD FRAMING DETAILS

S504 TYPICAL WOOD FRAMING DETAILS

S601 TYPICAL MASONRY DETAILS S701 TYPICAL CFS DETAILS

3

4

S407 STEEL FRAMING SECTIONS AND DETAILS

S503 TYPICAL WOOD TRUSS BRACING DETAILS

S408 STEEL FRAMING SECTIONS AND DETAILS (CONT)

S201 COLUMN SCHEDULE

2		1				
FOUNDATIONS:						
 Foundations have been designed to consist of continuous and sp inorganic, undisturbed natural soil or compacted structural fill hav pressure of 3000 pounds per square foot. Refer to the geotechnic S.W.Cole Engineering, Inc. dated May 23, 2023, for additional su reccomendations. The contractor is responsible for verifying thes failure to do so will result in a disclaimer of responsibility by the S 	read footings bearing o ing an allowable bearin cal engineering report b bsurface information ar e subsurface conditions tructural Engineer.	n g y nd s,		D	ba A R	
 Refer to the geotechnical engineering report for excavation, back structural fill procedures for all foundations and slabs. 	fill, and compaction of				THE CARRIA 6 SOUTH PAF LEBANON, I	GE HOUSE RK STREET NH 03766
3. Refer to the geotechnical engineering report for structural fill requ	irements.				1: 603 44	8 37 7 8
4. Unless otherwise noted, foundations shall be centered under sup	ported members.		С	DPYRIGHT © 20 NO REPROD	22 BANWELL ARCH UCTION WITHOUT F	ITECTS ALL RIGHTS RESER
 The bottom of perimeter and exterior foundations not on solid roc finished grade. 	k shall be at least 5'-0"	below		OWNER:		GN TEAM:
6. Keep foundation excavations free of water at all times. Protect all footings from freezing and frost action during the course of constr	soil surrounding and u ruction.	nder		PO BOX (WOLFEB	- WOLFEBORG 29 ORO, NH 03894	4
 Bottom of excavations shall be reviewed by the Geotechnical English to the placement of concrete. 	gineer or Testing Ageno	cy prior	F			
 Provide formwork for all footings, walls, and piers. Unless otherw foundations are not allowed. 	ise noted, earth formed			CONSTR CONNES	JCTION MANA	GER: JCTION, INC
 Place backfill simultaneously on both sides of foundation walls to backfill or temporarily brace walls with uneven backfill until the flo has been poured and/or the concrete has attained 75% of its des 	the grades indicated. D or slab at the top of the ign compressive streng	oo not wall th.		LACONIA T: (603) 5	, NH 03246 24-3776	
10. Provide 3/4" maximum aggregate within 12" of slabs on grade, ur Geotechnical Engineer.	nless otherwise noted b	у		CIVIL: NORWAY	PLAINS ASSO	OCIATES, INC
11. The bottom three (3) inches of footing excavations shall be finish	ed with smooth-edged I	bucket		ROCHES T: (603) 3	TER, NH 03867 35-3948	,
12. Use lean concrete (f'c = 1,500 psi) or structural fill for over-excav	ation of footings.			STRUCT	JRAL:	
13. Refer to site, plumbing, mechanical, and electrical drawings for lo conduit. Provide pipe sleeves for all pipe penetrations at foundations at foundation	cation of pipes and unc on walls.	derslab		TFMORAL 48 CONS	N, INC TITUTION DRIV	/E
14. The G.C. shall identify all below grade utilities prior to commencir	ng excavation activities.			BEDFORI T: (603) 4	D, NH 03110 72-4488	
15. Submittals to the Structural Engineer and Geotechnical Engineer material.	are required for structu	ıral fill				
			E	6 SOUTH	PARK STREE	T
				1: (603) 4 ₄	48-3778	
				MEP/FP: CHARLES	P. BUCKLEY,	P.E.
				RUMNEY T: (603) 7	, NH 03266 36-9992	
				VITAL SU(WOR	INFORMATION R CESSFUL COMF	EQUIRED FOR THE PLETION OF THE IN THE PROJECT
			D	MANU	AL PREPARED F	OR THIS PROJECT.
					R	STRUCTION ONSCONDENT
				6	20 FOR	2023-05-
				REVISION	DATE	COMMENTS
		PLAN SYMBOL LEGEND				
		INDICATES SLAB OVER-POUR, TYPICAL AT EXTERIOR DOOR,				
	SF	INDICATES STEPPED FOOTING, SEE "TYPICAL STEPPED FOOTING DETAIL" ON "TYPICAL FOUNDATION DETAILS" SHEET.	С			
	CJ	INDICATES CONTROL JOINT, SEE "TYPICAL SLAB-ON-GRADE DETAILS" ON "TYPICAL FOUNDATION DETAILS" SHEET				
	7777	INDICATES STEP IN SLAB.		KEY PLAN	& NORTH ARROV	N:
TABLE OF CONTENTS		INDICATES CONCRETE MASONRY UNIT (CMU) WALL.				
NAME ENERAL STRUCTURAL NOTES		INDICATES SHEAR WALL HOLDOWN FROM ABOVE, SEE SHEAR WALL SCHEDULE				
ENERAL STRUCTURAL NOTES (CONT.) ENERAL STRUCTURAL NOTES (CONT.)	F-# OR	INDICATES FLOOR/ ROOF DECK SPAN DIRECTION AND				
TATEMENT OF SPECIAL INSPECTIONS	R-#	TYPE. SEE PLAN NOTES FOR CONSTRUCTION INFO.				
DUNDATION PLAN ECOND FLOOR FRAMING PLAN		INDICATES DOWNWARD SLOPE DIRECTION AND PITCH.				
OF FRAMING PLAN		"#" INDICATES SHEAR WALL MARK, SEE SHEAR WALL SCHEDULE FOR INFORMATION.		PROJECT:		

| ^B | WOLFEBORO PUBLIC SAFETY BUILDING SOUTH MAIN STREET, WOLFEBORO, NH

ISSUED:

DESIGN DEVELOPMENT

DRAWING TITLE:

GENERAL STRUCTURAL NOTES

PROJECT NO: 22-950 DATE: 5-31-2023 SHEET NUMBER:



S502 TYPICAL WOOD SHEAR WALL AND CONNECTION DETAILS _____

#

#

#k

#k-ft

W#x##

#k

#k-ft

\times	INDICATES CONCRET
\mathbf{X}	INDICATES SHEAR WALL SC
F-# OR R-#	INDICATES FLOOR/ R TYPE. SEE PLAN NOT
	INDICATES DOWNWA
	"#" INDICATES SHEAR SCHEDULE FOR INFO "X" INDICATES HOLDO OR SHEAR WALL SCH FASTEN SHEATHING SHEAR WALL SHALL E POSTS AT EACH END
	INDICATES OVERBUIL

OWN MARK, SEE HOLDOWN SCHEDULE HEDULE FOR INFORMATION. TO ARROW SIDE OF WALL. EXTEND TO ENDS OF WALL OR TO END OF WALL.

ILD TRUSS FRAMING (OR RAFTER FRAMING IF APPLICABLE, SEE PLAN NOTÈS), TRUSSES (OR RAFTERS) BELOW THE OVERBUILD MUST BE FULLY SHEATHED. ISOLATED OPENINGS IN SHEATHING MAY BE ALLOWED WITH THE ENGINEER'S APPROVAL.

INDICATES STEEL INTERMEDIATE MOMENT FRAME . SEE PLAN, DETAILS, AND SCHEDULE FOR INFO.

INDICATES STRUCTURAL ELEVATION.

INDICATES STEEL BEAM W/ END REACTIONS FOR CONNECTION DESIGNS BY STEEL FABRICATOR. "#k" INDICATES SHEAR REACTION IN KIPS. "#k-ft" INDICATES MOMENT REACTION IN KIP-FEET. REACTIONS ARE FACTORED USING ASD LOAD COMBINATIONS.

<u>)</u>		7
	<u>ONCRETE:</u>	
1.	All concrete work shall conform to the requirement Concrete" and ACI 318 "Building Code Requirement	ts of ACI 301 "Specifications for Structural nts for Structural Concrete".
2.	Concrete shall be a mix designed for ultimate strer the following minimum 28-day compressive streng Foundation Footings, Walls, Columns, Piers, C Compressive Strength, fc Max Slump (without plant added water reduce Max Slump (with plant added water reduce Max W/C Ratio	ngth in accordance with ACI 211.1 to achieve ths: Grade Beams, and Pile Caps: 3,000 psi, Normal Weight ducer) 4" +/- 1" er) 4" to 6" 0.55
	Elevated Slabs on Steel Deck:	
	Compressive Strength, f'c Max Slump (without plant added water rec Max Slump (with plant added water reduce Max W/C Ratio Do not use air entrainment admixture	4,000 psi, Normal Weight (150 pcf max.) ducer) 4" +/- 1" eer) 4" to 6" 0.45
	Interior Slabs on Grade and Housekeeping Pa Compressive Strength Max Slump (without plant added water rec Max Slump (with plant added water reduce Max W/C Ratio Do not use air entrainment admixture	ads: 3,500 psi, Normal Weight ducer) 4" er) 4" to 6" 0.50
	Exterior Site Structures, Outdoor Stairs, and S Compressive Strength Max Slump (without plant added water red Max Slump (with plant added water reduce Max W/C Ratio Air Entrainment	Slabs: 4,000 psi, Normal Weight ducer) 3" eer) 4" to 6" 0.45 6% +/- 1%
3.	Concrete shall conform to the following: Cement:	Portland cement type I/II ASTM C150
	Fly Ash: Ground granulated blast-furnace slag:	ASTM C618 Class C 20% to 35% or Class F 15% to 25% ASTM C989 50% maximum
	Course aggregate:	ASTM C33 3/4" (Size No.67) for normal weight or ASTM C330 3/4" (Size No.67) for light weight
	Fine aggregate:	ASTM C33 3/8" (Size No.8) for normal weight or ASTM C330 3/8" (Size No.8) for light weight
4.	Produce, place and protect concrete during periods "Standard Specification for Cold Weather Concretion outlined in ACI 305.1 "Standard Specification for H	s of cold weather as outlined in ACI 306.1 ing" and during periods of hot weather as lot Weather Concreting".
5. 6.	Concrete shall not be cast in water or on frozen gro Mechanically vibrate and consolidate freshly cast of	ound. concrete around reinforcing bars and against
7	form surfaced to prevent the formation of air or sto of weakness. Do not over vibrate such that aggreg	ne pockets, honeycombing, pitting, or planes gate separation occurs.
7. 8.	Exposed concrete shall be rubbed immediately after drawings for finish type	er removal of forms, see architectural
9.	Slab surfaces shall have a steel trowel finish unles drawings. The G.C. shall coordinate ACI Class of F Flatness (FF) and Floor Levelness (FL) requirement equipment. All finishes of concrete surfaces shall b construction	ss noted on structural, architectural or civil Floors, ACI Finishing of Floors, ASTM Floor nts with Architect, Owner and Owner's be approved by the Owner/tenant, prior to
10.	Place and finish concrete slabs per the following A requirements: Elevated slabs on deck, cast in place elevated Office, retail and other commercial uses unless Storage, warehouse and manufacturing areas Operating rooms, production studios, warehous with high racking finishes and exposed retail s	CI 117 floor flatness and levelness $\frac{Ff}{5}$ Flm d slabs: 35 25 so otherwise noted: 35 35 w/ fork truck traffic: 45 35 uses and other uses labs: 60 40
11.	Elevated floor slabs shall be placed to the elevation maximum of 10% additional concrete as required of to achieve this top of slab elevation. The C.C. shall	n indicated on the drawings. Provide due to formwork and floor framing deflection Il place concrete slabs with a surface finish
	tolerance, as defined by ACI to allow for both frami Depressions in floors between high spots shall not straight edge.	ing deflection and a uniform slab thickness. be greater than 5/16" below a 10'-long
12.	tolerance, as defined by ACI to allow for both frami Depressions in floors between high spots shall not straight edge. Cure and protect slabs for not less than seven (7) ASTM C309 compatible with any intended floor over slab has adequately cured.	days with a curing compound conforming to erlay. Do not install finish flooring until the
12. 13.	tolerance, as defined by ACI to allow for both frami Depressions in floors between high spots shall not straight edge. Cure and protect slabs for not less than seven (7) ASTM C309 compatible with any intended floor ove slab has adequately cured. Concrete floor hardener shall be "Ashford Formula Company or approved equivalent, coordinate locat	days with a curing compound conforming to erlay. Do not install finish flooring until the " manufactured by Curecrete Chemical tions w/ Owner.
12. 13. 14.	 Cure and protect slabs for not less than seven (7) ASTM C309 compatible with any intended floor over slab has adequately cured. Concrete floor hardener shall be "Ashford Formula Company or approved equivalent, coordinate locat Slab control joints, not shown on the drawings, shafashion in accordance with ACI recommendations, length not exceeding the width by 20%. No assurat cracking will not occur. Coordinate joint locations we elevated composite slabs. Fill joints, unless otherw such as Metzger/McGuire <u>MM-80 or equal.</u> 	 and a uniform slab thickness. be greater than 5/16" below a 10'-long days with a curing compound conforming to erlay. Do not install finish flooring until the a" manufactured by Curecrete Chemical tions w/ Owner. all be laid out in a square or rectangular , Typical Slab-on-Grade Details and with the ince is offered by TFM that random shrinkage with Architect. Do not cut slab control joints on vise noted with semi-rigid epoxy joint filler
12. 13. 14.	 b) achieve this top of stab elevation. The C.C. shall tolerance, as defined by ACI to allow for both frami Depressions in floors between high spots shall not straight edge. Cure and protect slabs for not less than seven (7) ASTM C309 compatible with any intended floor over slab has adequately cured. Concrete floor hardener shall be "Ashford Formula Company or approved equivalent, coordinate locat Slab control joints, not shown on the drawings, shafashion in accordance with ACI recommendations, length not exceeding the width by 20%. No assurate cracking will not occur. Coordinate joint locations we elevated composite slabs. Fill joints, unless otherwise such as Metzger/McGuire <u>MM-80 or equal.</u> Horizontal wall construction joints shall be as indicate joints shall be approved by the architect and shall a vertical control or construction joints at concrete was Construction joints shall be formed with a key, and tension capacity of the (smaller) bar. 	 any account of the original contraction much ing deflection and a uniform slab thickness. be greater than 5/16" below a 10'-long days with a curing compound conforming to erlay. Do not install finish flooring until the a" manufactured by Curecrete Chemical tions w/ Owner. all be laid out in a square or rectangular , Typical Slab-on-Grade Details and with the nce is offered by TFM that random shrinkage with Architect. Do not cut slab control joints on vise noted with semi-rigid epoxy joint filler ated on the drawings. Vertical construction align with masonry wall control joints. Space alls no more than 30'-0" on center.
12. 13. 14. 15.	 to achieve this top of stab elevation. The C.C. shall tolerance, as defined by ACI to allow for both frami Depressions in floors between high spots shall not straight edge. Cure and protect slabs for not less than seven (7) ASTM C309 compatible with any intended floor over slab has adequately cured. Concrete floor hardener shall be "Ashford Formula Company or approved equivalent, coordinate locat Slab control joints, not shown on the drawings, shalfashion in accordance with ACI recommendations, length not exceeding the width by 20%. No assurate cracking will not occur. Coordinate joint locations we levated composite slabs. Fill joints, unless otherw such as Metzger/McGuire MM-80 or equal. Horizontal wall construction joints shall be as indicated in the proved by the architect and shall a vertical control or construction joints at concrete was Construction joints shall be formed with a key, and tension capacity of the (smaller) bar. Openings in concrete walls shall be located, sized, openings and/ or sleeves of a size that will not dispreinforcing) as shown on respective details. Any al Engineer. 	 and reinforced (with the exception of small objective of the structural
 12. 13. 14. 15. 16. 17. 	 b) achieve this top of stab elevation. The C.C. shall tolerance, as defined by ACI to allow for both frami Depressions in floors between high spots shall not straight edge. Cure and protect slabs for not less than seven (7) ASTM C309 compatible with any intended floor over slab has adequately cured. Concrete floor hardener shall be "Ashford Formula Company or approved equivalent, coordinate locat Slab control joints, not shown on the drawings, shafashion in accordance with ACI recommendations, length not exceeding the width by 20%. No assurate cracking will not occur. Coordinate joint locations we elevated composite slabs. Fill joints, unless otherwise such as Metzger/McGuire MM-80 or equal. Horizontal wall construction joints shall be as indications in capacity of the (smaller) bar. Openings in concrete walls shall be located, sized, openings and/ or sleeves of a size that will not dispresinforcing) as shown on respective details. Any al Engineer. No pipe shall pass through concrete without permissible version footings. 	 and reinforced (with the exception of small objace or interrupt the continuity of the structural spinor of the structural spinor of the structural spinor of three (3) diameters apart. Pipes shall not
 12. 13. 14. 15. 16. 17. 18. 	 be achieve this top of slab elevation. The C.C. shall tolerance, as defined by ACI to allow for both frami Depressions in floors between high spots shall not straight edge. Cure and protect slabs for not less than seven (7) - ASTM C309 compatible with any intended floor over slab has adequately cured. Concrete floor hardener shall be "Ashford Formula Company or approved equivalent, coordinate locat Slab control joints, not shown on the drawings, sha fashion in accordance with ACI recommendations, length not exceeding the width by 20%. No assurate cracking will not occur. Coordinate joint locations we elevated composite slabs. Fill joints, unless otherw such as Metzger/McGuire MM-80 or equal. Horizontal wall construction joints shall be as indications in capacity of the (smaller) bar. Openings in concrete walls shall be located, sized, openings and/ or sleeves of a size that will not dispreinforcing) as shown on respective details. Any al Engineer. No pipe shall pass through concrete without permiss sleeves shall be provided and spaced a minimum pass through footings. Unless otherwise noted, keys shall be 2"x4" with be 	 and reinforced (with the exception of small be lage on the drawings. Vertical construction allow of the full and reinforced (with the exception of small be lage of the exception of small be lage of the structural sign of the structural be lage of the structural by the structural by TFM the structural construction align with semi-rigid epoxy joint filler ated on the drawings. Vertical construction align with masonry wall control joints. Space align on the structural be lage of the structural be shall not be structural be shall not be structural be shall not be structural side structural be shall not be structural be structural be shall not be structural be structural be structural be shall not be structural be structural be structural be shall not be structural be structural be shall not be structural be structural be structural be structural be structural be shall not be structural be structu
 12. 13. 14. 15. 16. 17. 18. 19. 	 be achieve this top of slab devalution. The O.C. shall tolerance, as defined by ACI to allow for both frami Depressions in floors between high spots shall not straight edge. Cure and protect slabs for not less than seven (7) ASTM C309 compatible with any intended floor over slab has adequately cured. Concrete floor hardener shall be "Ashford Formula Company or approved equivalent, coordinate locat Slab control joints, not shown on the drawings, shafashion in accordance with ACI recommendations, length not exceeding the width by 20%. No assurate cracking will not occur. Coordinate joint locations we elevated composite slabs. Fill joints, unless otherw such as Metzger/McGuire MM-80 or equal. Horizontal wall construction joints shall be as indication joints shall be approved by the architect and shall a vertical control or construction joints at concrete with a key, and tension capacity of the (smaller) bar. Openings in concrete walls shall be located, sized, openings and/ or sleeves of a size that will not dispreinforcing) as shown on respective details. Any al Engineer. No pipe shall pass through concrete without permissible eves shall be provided and spaced a minimum pass through footings. Unless otherwise noted, keys shall be 2"x4" with be Provide pockets in walls with steel bearing plates from a walls unless noted otherwise. 	 and reinforced (with the exception of small collaboration of small be laid on the drawings. Vertical construction align with masonry wall control joints. Space align on the structural be lapped to develop the full and reinforced (with the exception of small be lapped to develop the full and reinforced structural Engineer. Pipe of three (3) diameters apart. Pipes shall not
 12. 13. 14. 15. 16. 17. 18. 19. 20. 	 The control point of the control of the co	 and deflection and a uniform slab thickness. be greater than 5/16" below a 10'-long days with a curing compound conforming to erlay. Do not install finish flooring until the a "manufactured by Curecrete Chemical tions w/ Owner. all be laid out in a square or rectangular, Typical Slab-on-Grade Details and with the nce is offered by TFM that random shrinkage with Architect. Do not cut slab control joints on vise noted with semi-rigid epoxy joint filler ated on the drawings. Vertical construction align with masonry wall control joints. Space alls no more than 30'-0" on center. I reinforcing shall be lapped to develop the full and reinforced (with the exception of small blerations require approval of the Structural ssion from the Structural Engineer. Pipe of three (3) diameters apart. Pipes shall not neveled sides. for support of all beams framing into/onto
 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 	 Botheve this top of slab Celvation. The Cite shall tolerance, as defined by ACI to allow for both frami Depressions in floors between high spots shall not straight edge. Cure and protect slabs for not less than seven (7) ASTM C309 compatible with any intended floor over slab has adequately cured. Concrete floor hardener shall be "Ashford Formula Company or approved equivalent, coordinate locat Slab control joints, not shown on the drawings, shafashion in accordance with ACI recommendations, length not exceeding the width by 20%. No assurat cracking will not occur. Coordinate joint locations we levated composite slabs. Fill joints, unless otherw such as Metzger/McGuire MM-80 or equal. Horizontal wall construction joints shall be as indications shall be approved by the architect and shall a vertical control or construction joints at concrete was Construction joints shall be formed with a key, and tension capacity of the (smaller) bar. Openings in concrete walls shall be located, sized, openings and/ or sleeves of a size that will not dispreinforcing) as shown on respective details. Any al Engineer. No pipe shall pass through concrete without permissleeves shall be provided and spaced a minimum opass through footings. Unless otherwise noted, keys shall be 2"x4" with be Provide pockets in walls with steel bearing plates fi walls unless noted otherwise. Do not backfill foundation walls until the concrete h attained 75% of its design compressive strength. Fi prior to supporting structural steel. Column anchor bolts shall be set by template at comparison. 	ing deflection and a uniform slab thickness. t be greater than 5/16" below a 10'-long days with a curing compound conforming to erlay. Do not install finish flooring until the " manufactured by Curecrete Chemical tions w/ Owner. all be laid out in a square or rectangular , Typical Slab-on-Grade Details and with the nce is offered by TFM that random shrinkage with Architect. Do not cut slab control joints on vise noted with semi-rigid epoxy joint filler ated on the drawings. Vertical construction align with masonry wall control joints. Space alls no more than 30'-0" on center. I reinforcing shall be lapped to develop the full olace or interrupt the continuity of the Iterations require approval of the Structural ssion from the Structural Engineer. Pipe of three (3) diameters apart. Pipes shall not neveled sides. for support of all beams framing into/onto has been in place for seven (7) days and Foundations shall achieve the design strength plumn footings and piers. at manufacturer recommended temperature
 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 22. 	 No pipe shall pass through concrete without permission capacity of the (smaller) bar. Openings in concrete walls shall be located, sized, openings and/or sleeves of a size that will not dispression as shown on respective details. Any al Engineer. No pipe shall pass through concrete without permission capacity of the (smaller) bar. Openings in concrete walls shall be located, sized, openings and/or sleeves of a size that will not dispression capacity of the (smaller) bar. Openings in concrete walls shall be located, sized, openings and/or sleeves of a size that will not dispress through footings. Unless otherwise noted, keys shall be 2"x4" with be Provide pockets in walls with steel bearing plates for walls unless noted otherwise. Do not backfill foundation walls until the concrete hattained 75% of its design compressive strength. First and the steel plates for a size that will be provide plates for a size that will b	ing deflection and a uniform slab thickness. t be greater than 5/16" below a 10'-long days with a curing compound conforming to erlay. Do not install finish flooring until the "manufactured by Curecrete Chemical tions w/ Owner. all be laid out in a square or rectangular , Typical Slab-on-Grade Details and with the nce is offered by TFM that random shrinkage with Architect. Do not cut slab control joints on vise noted with semi-rigid epoxy joint filler ated on the drawings. Vertical construction align with masonry wall control joints. Space alls no more than 30'-0" on center. I reinforcing shall be lapped to develop the full olace or interrupt the continuity of the Iterations require approval of the Structural sistion from the Structural Engineer. Pipe of three (3) diameters apart. Pipes shall not neveled sides. for support of all beams framing into/onto has been in place for seven (7) days and foundations shall achieve the design strength olumn footings and piers. at manufacturer recommended temperature , coordinate appropriate oval with structural engineer.
 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 	 No pipe shall pass through concrete without permissleeves shall be provided and spaced a minimum of the straight of the straight of the straight edge. Cure and protect slabs for not less than seven (7) ASTM C309 compatible with any intended floor over slab has adequately cured. Concrete floor hardener shall be "Ashford Formula Company or approved equivalent, coordinate locations, length not exceeding the width by 20%. No assurate cracking will not occur. Coordinate joint locations we elevated composite slabs. Fill joints, unless otherw such as Metzger/McGuire MM-80 or equal. Horizontal wall construction joints shall be as indications in accordance with ACI recommendations, length not exceeding the width by 20%. No assurate cracking will not occur. Coordinate joint locations we elevated composite slabs. Fill joints, unless otherw such as Metzger/McGuire MM-80 or equal. Horizontal wall construction joints shall be as indications and the sign of the (smaller) bar. Openings in concrete walls shall be located, sized, openings and/or sleeves of a size that will not dispreinforcing) as shown on respective details. Any al Engineer. No pipe shall pass through concrete without permissleeves shall be provided and spaced a minimum pass through footings. Unless otherwise noted, keys shall be 2"x4" with be Provide pockets in walls with steel bearing plates for walls unless noted otherwise. Do not backfill foundation walls until the concrete h attained 75% of its design compressive strength. Firior to supporting structural steel. Column anchor bolts shall be set by template at compass through footings. Natifie Excision of the shall be installed in sound compass through anchors in materials ranges. If temperature ranges cannot be achieved, epoxyladhesive/acrylic material substitute for approxed poxyladhesive/acrylic material substitute for approxed walls anchors. 	In generation and a uniform slab thickness. the greater than 5/16" below a 10'-long days with a curing compound conforming to erlay. Do not install finish flooring until the "manufactured by Curecrete Chemical tions w/ Owner. all be laid out in a square or rectangular , Typical Slab-on-Grade Details and with the nce is offered by TFM that random shrinkage with Architect. Do not cut slab control joints on vise noted with semi-rigid epoxy joint filler ated on the drawings. Vertical construction align with masonry wall control joints. Space alls no more than 30'-0" on center. I reinforcing shall be lapped to develop the full olace or interrupt the continuity of the Iterations require approval of the Structural ssion from the Structural Engineer. Pipe of three (3) diameters apart. Pipes shall not neveled sides. for support of all beams framing into/onto has been in place for seven (7) days and Foundations shall achieve the design strength plumn footings and piers. at manufacturer recommended temperature , coordinate appropriate roval with structural engineer.
 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 	 No billeve difference of any ACI to allow for both frami Depressions in floors between high spots shall not straight edge. Cure and protect slabs for not less than seven (7): ASTM C309 compatible with any intended floor ow slab has adequately cured. Concrete floor hardener shall be "Ashford Formula Company or approved equivalent, coordinate locat Slab control joints, not shown on the drawings, sha fashion in accordance with ACI recommendations, length not exceeding the width by 20%. No assurar cracking will not occur. Coordinate joint locations we levated composite slabs. Fill joints, unless otherw such as Metzger/McGuire <u>MM-80 or equal.</u> Horizontal wall construction joints shall be as indica joints shall be approved by the architect and shalf a vertical control or construction joints at concrete we Construction joints shall be formed with a key, and tension capacity of the (smaller) bar. Openings in concrete walls shall be located, sized, openings and/ or sleeves of a size that will not disp reinforcing) as shown on respective details. Any al Engineer. No pipe shall pass through concrete without permis sleeves shall be provided and spaced a minimum pass through footings. Unless otherwise noted, keys shall be 2"x4" with b Provide pockets in walls with steel bearing plates fi walls unless noted otherwise. Do not backfill foundation walls until the concrete h attained 75% of its design compressive strength. Fi prior to supporting structural steel. Column anchor bolts shall be set by template at co Place epoxy/adhesive/acrylic anchors in materials ranges. If temperature ranges cannot be achieved, epoxy/adhesive/acrylic material substitute for appro- Post installed anchors shall be installed in sound c manufacturer's recommendations/instructions. Rei install anchors. Notify Engineer of any wall and/or slab cracks of 1/ Submittals to the Structural Engineer are required to 	In gdeflection and a uniform slab thickness. t be greater than 5/16" below a 10'-long days with a curing compound conforming to erlay. Do not install finish flooring until the "manufactured by Curecrete Chemical tions w/ Owner. all be laid out in a square or rectangular , Typical Slab-on-Grade Details and with the nce is offered by TFM that random shrinkage with Architect. Do not cut slab control joints on vise noted with semi-rigid epoxy joint filler ated on the drawings. Vertical construction align with masonry wall control joints. Space talls no more than 30'-0" on center. I reinforcing shall be lapped to develop the full of the end of the structural Engineer. Pipe of three (3) diameters apart. Pipes shall not neveled sides. for support of all beams framing into/onto has been in place for seven (7) days and foundations shall achieve the design strength plumn footings and piers. at manufacturer recommended temperature , coordinate appropriate oval with structural engineer. soncrete/masonry in accordance with the inforcing steel shall not be cut in order to /8" or greater for review. for each concrete mix design to be used

MASONRY:

- 1. Masonry construction shall conform to applicable Building Code Requirements for Masonry Structures (ACI 530 / ASCE 5 / TMS 402)
- 2. Concrete masonry units (CMU) shall be nominal thickness unless noted otherwise on the contract drawings.
- 3. Specified masonry compressive strength, f'm = 2,000 psi Inspected. 4. Hollow load bearing concrete masonry units shall be in accordance with ASTM C90
- specifications for Normal weight (average oven-dry density of 125 pcf or more and max. water absorption of 13 pcf) and Lightweight (average oven-dry density less than 105 pcf and max. water absorption of 18 pcf). Load bearing CMU shall have a minimum average net area compressive strength of 1,900 psi according to ASTM C140.
- 5. Hollow non-load bearing concrete masonry units shall be in accordance with ASTM C129. All non-load bearing partitions shall be light weight CMU.
- 6. Mortar shall be ASTM C270 (property specification) Type S mortar with 28 day compressive strength of 1,800 psi. Mortar shall be preblended (bag or bulk) dry masonry mortar mix containing Portland cement, hydrated lime and dried masonry sand. Mortar mix shall NOT contain mortar cement or masonry cement.
- 7. Grout shall be ASTM C476, fine grout with minimum 28 day compressive strength of 3,000 psi. Grout shall contain Portland Cement Type I/II.
- 8. Vertical and horizontal deformed reinforcement shall be ASTM A615 grade 60. Horizontal joint reinforcement shall conform to ASTM A951, wire shall conform to A1064, mill galvanized coating according to ASTM A641 and hot-dipped galvanized at exterior walls according to ASTM ASTM A153.
- 9. Prism tests according to ASTM E447 are required prior to work
- 10. Grout CMU solid at expansion anchor locations.
- 11. Cores and bond beams with reinforcing shall be filled solidly with grout. Filling such cores and bond beams with mortar is strictly prohibited. In addition, care shall be exercised in keeping cores free from mortar droppings.
- 12. Minimum reinforcing requirements for reinforced CMU walls shall conform to the schedule shown on the contract drawings and the applicable building code requirements. Reinforcing shall be spliced as per the min. lap length shown within the masonry reinforcing schedule.
- 13. Grout shall be placed using low or high lift grouting procedures conforming to ACI/ASCE. Terminate grout pours 1-1/2 inches below top course of placement. Provide clean-outs and transparent window covers at bottom of all high lift grouted cores.
- 14. Vertical reinforcing shall be securely held in proper alignment and position during grouting operations by using "Rebar Positioners," as manufactured by Wire Bond or approved equal. The product, in addition, shall allow for guiding the spliced reinforcing dropped from the top of the lift.
- 15. Masonry shall be braced during construction. Brace spacing shall not exceed ten times the wall thickness but not less than the procedures listed under NCMA-TEK 72. Design of all bracing is to be provided by the Contractor.
- 16. Provide full height vertical reinforcement at each side of control joints, window, door, and wall openings, at all ends of walls and corners. Reinforcing shall be grouted solid and match the diameter of the typical wall reinforcing, unless noted.
- 17. Provide pockets in walls with steel bearing plates for support of all beams framing into/onto walls unless noted otherwise.
- 18. Submittals to the Structural Engineer are required for mortar and grout mix designs with test results, masonry unit test data, accessories, hot and cold weather procedures and grouting method.

REINFORCING STEEL

- 1. Reinforcing steel shall be deformed bars, free from loose rust and scale, and conforming to ASTM A615, Grade 60.
- 2. Welded wire fabric (WWF) shall conform to ASTM A1064. Lap 1.5 squares at joints and tie at 3'-0" o.c. Furnish WWF in flat sheets.
- 3. Welded wire fabric (WWF) at slabs on grade shall be supported on chairs or bolsters spaced at 24"-36" or less, WWF at elevated slabs shall be supported on bolsters with continuous plate located over beams (perpendicular to deck span) as required to maintain WWF at indicated clear cover location.
- 4. Clear concrete cover over bars shall be as follows unless otherwise noted (see ACI 318 for conditions not noted): 3 inches (bottom), 2 inches (top and side) Footinas Walls and Piers (exposed to earth): 2 inches (side) Walls and Piers (interior): 1 1/2 inches (side) Elevated slabs: 1 inch (top) Slab on grade: 2 Inches (top)
- 5. Accessories in contact with forms to be removed shall have upturned legs and be plasticdipped after fabrication. Accessories for reinforcing shall be in accordance with ACI current edition.
- 6. Lap reinforcing to develop the full tension capacity of the (smaller) bar. Provide Class B splice unless noted otherwise.
- 7. No bars shall be cut or omitted in the field because of sleeves, duct openings or recesses. Bars may be moved aside without change in level with the prior approval of the Structural Engineer.
- 8. Shop or Erection drawings shall be submitted to the Structural Engineer showing the layout,
- 9. Submittals to the Structural Engineer are required for product data of all accessories, including WWF, chairs, bolsters and mechanical connectors.

spacing, lap lengths, quantity and sizes of all concrete and masonry reinforcing.

POST INSTALLED ANCHORS IN CONCRETE AND MASONRY:

- 1. Post installed anchors shall be used only where specified on structural drawings.
- 2. The installation of post installed anchors for missing or misplaced cast in-place anchors shall be approved by the Engineer of Record (EOR).
- 3. Existing reinforcing bars in the concrete structure shall not be cut unless approved by the structural Engineer of Record.
- 4. Submittal of all proposed products, with technical data and current icc-esr reports is required for review and approval by EOR. Additional application calculations may be required by the EOR.
- 5. All anchors shall be installed in strict accordance with manufacturer's printed installation instructions (MPII) in conjunction with edge distance, spacing and embedment depth as indicated on the drawings.
- 6. The contractor shall arrange for a manufacturer's field representative to provide installation training for all products to be used, prior to commencement of work. Only trained installaers shall perform post installed anchor installation. A record of training shall be kept on site and be made available to the EOR as requested.
- 7. Adhesive anchors installed in horizontal to vertically overhead orientation to support sustained tension loads shall be done by a certified adhesive anchor installer (AAI) as certified through ACI/CRSI (ACI 318-11 d.9.2.2)/ (ACI 318-14 17.8.2.2) / ACI 318-19 17.2.3 proof of current certification shall be submitted to the engineer for approval prior to commencement of installation
- 8. Adhesive anchors must be installed in concrete aged a minimum of 21 days (ACI 318-11 d.2.2)/ (ACI 318-14 17.1.2)/ ACI 318-19 17.2.2).
- 9. The removal and resetting of post installed anchors is prohibited (ACI 318-19 17.1.3).
- 10. Provide special inspection for all mechanical and adhesive anchors per the applicable building code and per the current ICC-ES report (IBC 2012, 2015, 2018 Table 1705.3 Note B).
- 11. Concrete Anchors 1. Mechanical anchors shall have been tested and qualified for use in accordance with ACI 355.2 and ICCES AC193 for cracked, uncracked and seismic concrete
 - recognition 2. Adhesive anchors shall have been tested and qualified for use in accordance with ACI 355.4 and ICC-ES AC308 for cracked, uncracked and seismic concrete recognition. 3. Cast-in-place inserts shall have been tested and qualified for use in accordance with
- ICC-ES AC446 for cracked, uncracked and seismic concrete recognition. 12. Post installed rebar
 - 1. Adhesive prodcuts for post installing rebar shall be tested in accordance with ICC-ES acceptance criteria for post installed anchors in concrete elements (AC308), Table 3.8. Product shall have a current icc-es report with qualification for cracked concrete
 - 2. Post installed reinforcing bars shall be installed in strict accordance with the current manufacturer's published installation instructions.

13. Masonry anchors

- 1. Mechanical anchors shall have been tested and qualified for use in accordance with ICC-ES AC01 or AC106. 2. adhesive anchors shall have been tested and qualified for use in accordance with ICC-ES AC58.
- 14. Unreinforced masonry (urm) anchors 1. Adhesive anchors shall have been tested and qualified for use in accordance with ICC-ES AC60.
- 15. Power actuated fasteners
- 1. Power actuated fasteners shall have been tested and qualified for use in accordance with ICC-ES AC70.
- 16. Special inspection Special inspection requirements
- 1. Provide special inspection for all mechanical and adhesive anchors per the applicable building code and per the current ICC-ES report (IBC 2012, 2015, 2018 Table 1705.3 note b)
- 2. Adhesive anchors installed in horizontal or upwardly inclined orientations to resist sustained tension loads shall be continuously inspected during installation by an inspector specially approved for that purpose by the building official (ACI 318-11 d.9.2./ (ACI 318-14 17.8)/ ACI 318-19).
- 3. Test methods, loads procedure, frequency, acceptance criteria per, 2019 CBC 1901.3.4.2-5, 1910a.5.

STEEL DECK

- 1. All steel deck to be fabricated and erected in accordance with the Steel Deck Institute.
- 2. Galvanized metal deck shall be formed of steel sheets conforming to ASTM A653. Galvanized coating shall conform to ASTM Specification A 525-G60. Galvanized deck to receive shop coating of primer, coordinate with Architect.
- 3. Prime painted metal deck shall be formed of steel sheets conforming to ASTM A653. Steel deck shall have a coat of manufacturers standard rust-inhibitive primer, unless otherwise noted.
- 4. Steel Deck shall have the minimum design values:
- 2" deep, 20 gage galvanized composite floor steel deck, Fy = 50 ksi (min.), with max. un-shored span = 7'-8", shall have the following minimum properties per foot: = 0.409 in4

Sp	= 0.326 IN3
Sn	= 0.337 in3

- 1-1/2" deep, 36" wide, 20 gage, painted Type B steel roof deck, Fy = 50 ksi (min.) shall have the following minimum properties per foot: = 0.197 in4
- = 0.217 in4 Sp = 0.224 in3

= 0.229 in3

Sn

- 5. Unless otherwise noted, weld composite floor deck 12 inches on center (36/4 pattern) to all structural supports with 5/8 inch diameter or larger puddle welds. Weld deck around openings, along braced frame and column lines, shear walls, and around the building perimeter at 6 inches on center including the sides of the deck. Screw side lap joints at 24 inches maximum on
- 6. Unless otherwise noted, weld roof deck sheets 12 inches on center (36/4 pattern) to all structural supports with 5/8 inch diameter or larger puddle welds. Weld deck around openings, along braced frame column lines, shear walls, and around the building perimeter at 6 inches on center including the sides of the deck. Provide side lap screws at 1/3 points of the deck span (2 screws per span).
- 7. Mechanical fasteners (screws, powder or pneumatically driven fasteners) are an acceptable alternate, provided that the type and size of the fastener meets the design criteria. Submit test data and design calculations/charts by the fastener manufacturer for review.
- 8. Unless shown otherwise on plans, design roof deck fasteners for minimum net wind uplift of 15
- 9. Size, location, and details of openings in metal deck shall be coordinated with the architectural, structural, and MEP drawings.
- 10. Deck shall be placed with corrugations perpendicular to supports, with 3-span min. condition.
- 11. End laps shall always occur over supporting joists or beams. Side lap a minimum of one corrugation with previously placed row (unless deck system provides side lap splice).
- 12. Deck supports are to be provided as required to support floor and/or roof deck at changes in deck span direction, changes in floor and/or roof planes over structural members, along diagonal cuts and at all openings such as angles, channels, bent plates, etc..
- 13. Support deck during concrete placement as required to meet SDI construction span recommendations.
- 14. Shop or Erection drawings shall be submitted to the Structural Engineer showing the layout, sizes, thickness, fastening and anchorage details.
- 15. Submittals to the Structural Engineer are required for product data of all accessories, including mechanical connectors.

3

STRUCTURAL STEEL

- 3. Do not splice structural steel members without written approval of the Structural Engineer.
- unless otherwise noted.
- angle/shear tab connections are not permitted without EOR approval.
- for the effect of concentrated loads.
- equal to that which is shown at the end of the beam on the framing plans.
- F=1.3: W36, W30 F=1.5: W27, W24, W21 F=1.7: W18. W16. W14

F=2.0: W12, W10, W8

- permitted.
- optimum weld (low hydrogen).
- quarter inch fillet welds after final field adjustment.
- at beams supporting columns above.

- each side/face in direction of wall unless otherwise noted.
- supported by framing members.
- 19. Steel Primer
- General Primer:

Touch up paint in the field by the Contractor, unless otherwise noted.

- galvanize zinc rich type paint by Contractor.
- with the shop drawings submittal for review by the engineer of record.
- shop drawings submittal for review by the engineer of record.
- erection of structural steel and stairs, prior to fabrication.

per rib before a triple row is required.

side of the centerline of the beam.

supporting composite floor slabs.

spacing and sizes of all shear studs.

2

side by side.

1. Fabricate and erect structural steel in accordance with the applicable "Specification for Structural Steel for Buildings" and the "Code of Standard Practice" of AISC. Welding shall conform to the requirements of the "Structural Welding Code" of the American Welding Society.

2. Structural steel wide flange shapes shall conform to ASTM A992 (Fy = 50 ksi). Hollow Structural Sections (HSS) shall conform to ASTM A500, Grade B (Rectangular Fy = 46 ksi, Round Fy = 42 ksi). Pipe shall be ASTM A53, Grade B (Fy = 35 ksi). Structural steel channels, misc. shapes, plates, and angles shall conform to ASTM A36 (Fy = 36 ksi), unless otherwise

4. Bolted connections shall be made with three-quarter inch diameter high strength, ASTM A325-N bolts, unless otherwise noted. Connections at moment frames, braced frames, column splices and hangers shall be made with three-quarters inch diameter A325-SC (Slip critical) bolts,

5. All beam to beam and beam to column connections shall be double angle connections. Connections shall be made with standard slotted holes with 3" max. gage. Extended

6. Shop connections, unless otherwise noted, shall be welded. Unless otherwise noted, beam connections shall provide shear capacity to support a reaction R equal to half the total uniform load capacity of the beam for given shape, span and steel specification (AISC) taking account

7. Shop connections, unless otherwise noted, shall be welded. Unless otherwise noted, beam connections shall provide shear (kips)/ moment (kip*ft) capacity to support an ASD reaction

8. The following factors shall be applied to the composite beam end reactions determined from the uniform load capacity of the beam (noted above), for the design of the shear connections:

9. Shop camber steel beams as shown on the drawings. Camber tolerance shall be -0" or +1/2". Camber shall be measured with beam web vertical (erected condition) under its own dead load.

10. Anchor bolts shall be headed bolts of the diameters and dimensions detailed, unless otherwise noted on the drawings. Provide ASTM F1554 Gr. 36 for diameters 3/4" or less and highstrength (HS) anchor bolts shall be ASTM F1554 Gr. 55, Supplement 1 (weldable) for diameters larger than 3/4". Anchor bolts shall be set by template. Hooked ("J" type) anchor bolts are not

11. Welding electrodes shall conform to AWS A5.1 E70XX series with proper rod to produce

12. Unless otherwise noted, bolted connections with slotted holes shall be field-welded with one-

13. Provide 3/8" minimum fitted stiffener plates each side of beam's web framing over columns and

14. Provide 1/4" thick steel leveling plate on 3/4" min. non-shrink grout under all column base plates unless otherwise noted. Leveling plates shall be set and grouted prior to erecting columns.

15. Provide all angles, plates, anchors, bolts, etc., shown on architectural drawings.

16. All columns and beams embedded in masonry piers/walls shall have ties/anchors at 16" o.c.

17. Provide L4x4x1/4 minimum steel deck support angles as required at columns where structural members do not frame in at all four sides, at changes in deck span direction, at changes in floor and/ or roof planes over structural members, along diagonal cuts, and at all openings. Provide additional deck support where any framing connection prevents the deck from being adequately

18. Provide holes in beam flanges for wood nailer attachment at steel supporting wood framing, see wood structural notes, schedules and details for size and spacing.

> Standard Alkyd Primer applied at 2.5 - 3.5 mil DFT shall be used as the standard of quality and performance. Color: grey

20. Structural steel exposed to weather or where noted, and lintels for exterior masonry shall be hot-dipped galvanized according to ASTM A123. Touch up in the field after welding with cold

21. The Steel fabricator is responsible for the design and detailing of all connections including moment connections, braced frame connections and beam and/or column stiffeners and doublers if required. All connections must be designed by a registered professional engineer in the state in which the project is being constructed. Certification of this design shall be provided

22. The design of steel stairs, hand rails, and guard rails are delegated for design by others and of the general contractor. All must be designed by a registered professional engineer in the state in which the project is being constructed. Certification of this design shall be provided with the

23. Shop or Erection drawings shall be submitted to the Structural Engineer for fabrication and

24. Submittals to the Structural Engineer are required for mill tests and sealed connection calculations and sealed stair calculations.

SHEAR STUD PLACEMENT:

1. Shear connectors shall conform to ASTM A108, Grades 1015 through 1020, headed-stud type, cold finished carbon steel AWS D1.1, Type B, unless otherwise noted.

2. At beams (deck is perpendicular to beam) where there are more studs than ribs, place a double (or triple, if required) row of studs starting at each end of the beam and working toward the center. There should be at least one stud per rib before a double row is required and two studs

3. At beams where there are fewer studs than ribs, place one stud at every third rib and then fill in empty ribs starting at each end of the beam, and working towards the center.

4. In general, if studs cannot be placed with a uniform spacing along the beam, the greatest number of studs should occur at the ends of the beam, with an equal number of studs on each

5. At girders (deck is parallel to beam), place the first stud approximately 12" from the column centerline and work toward the center with uniform spaces between studs. Where stud patterns are noted on the drawings, place the number of studs indicated with a uniform spacing between the beams framing to the girder. Space studs no closer than 4 diameters apart, center to center. 6. If a double (or triple) row of studs is required, place the studs in a staggered pattern rather than

7. Where no studs are specifically noted on plan, provide studs at 24"o.c. on all steel beams

8. Shop or Erection drawings shall be submitted to the Structural Engineer showing the layout,

THE CARRIAGE HOUSE **6 SOUTH PARK STREET** LEBANON, NH 03766

T: 603 448 3778

COPYRIGHT © 2022 BANWELL ARCHITECTS ALL RIGHTS RESERVED. NO REPRODUCTION WITHOUT PRIOR WRITTEN PERMISSION CONSULTANTS / DESIGN TEAM: OWNER: TOWN OF WOLFEBORO PO BOX 629 WOLFEBORO, NH 03894

CONSTRUCTION MANAGER: CONNESTON CONSTRUCTION. INC 132 S MAIN STREET LACONIA, NH 03246 T: (603) 524-3776

NORWAY PLAINS ASSOCIATES. INC 2 CONTINENTAL BLVD ROCHESTER, NH 03867 T: (603) 335-3948

STRUCTURAL: TFMORAN, INC **48 CONSTITUTION DRIVE** BEDFORD, NH 03110 T: (603) 472-4488

ARCHITECT: BANWELL ARCHITECTS, NH **6 SOUTH PARK STREET** LEBANON, NH 03766 T: (603) 448-3778

MEP/FP: CHARLES P. BUCKLEY, P.E. **500 DEPOT STREET** RUMNEY, NH 03266 T: (603) 786-9992

> VITAL INFORMATION REQUIRED FOR THE SUCCESSFUL COMPLETION OF THE WORK IS CONTAINED IN THE PROJECT MANUAL PREPARED FOR THIS PROJECT



REVISION DATE COMMENTS

KEY PLAN & NORTH ARROW:

ISSUED: DESIGN DEVELOPMENT

SOUTH MAIN STREET.

WOLFEBORO, NH

B WOLFEBORO PUBLIC SAFETY

DRAWING TITLE:

PROJECT:

BUILDING

GENERAL STRUCTURAL NOTES (CONT.)

PROJECT NO: 22-950 DATE: 5-31-2023 SHEET NUMBER:



	8	7	6	5
	WOOD:		PRE-ENGINEERED WOOD TRUSS	SES:
	1. Work shall be in accordance with the applicable A "National Design Specification for Wood Construct Wood Construction" National Forest Products As	merican Wood Council, ANSI / AF&PA, tion (NDS)" including "Design Values for sociation	1. <u>All pre-engineered/prefabricated wood trusses shal</u> "National Design Standards for Metal Plate Connect	conform to applicable ANSI/TI ted Wood Truss Construction."
	 New wood for structural use shall have a moisture Specification for Wood Construction " 	e content as specified in the "National Design	 The manufacturer of the pre-engineered trusses shall b plant. Proof of certification shall be submitted to the Eng truspec 	e a Truss Plate Institute (TPI) cer gineer prior to fabrication of the w
	 Wood construction shall conform to applicable IB(Light frame Construction " 	C, Chapter and Section for "Conventional	 Trusses shall be designed for the following uniform load 	ds with 5 1/2" or 3 1/2" max. beari
	 Sheathing panels shall be marked with the Americ a shall me at the latest U.C. Product Standard PC 4. 	an Plywood Association (APA) trademark and	Roof Trusses	
	5. All wall sheathing panels shall be 1/2" thick Plywo	or APA PRP-108 Performance Standards.	Top Chord Dead Load 12 r slop proj	osf (increase the load based on the se in order to calculate the horizor jection)
	for Plywood) or (DOC PS1 or PS2 for OSB), with sheathing panel edges shall be blocked, unless of spaced at 6"o.c. at panel perimeter supported edç	32/16 span rating (unless otherwise noted). All herwise noted. Fasten with 8d common nails jes and 12"o.c. at interior intermediate	5 ps Top Chord Live Load 20 p Top Chord Snow Load (see	if (solar array allowance) osf (min.) e the "DESIGN LOADS" section c
	supports (field) with 1 3/8" min. fastener penetration with long dimension perpendicular to support men	on, unless otherwise noted. Lay wall sheathing nbers.	gen Top Chord Wind Load (see gen	eral notes) ∍ the "DESIGN LOADS" section c eral notes)
F	 All floor sheathing panels (sub-floor) shall be 3/4" Sturd-I-Floor EXP 1 (C-D for Plywood) or (DOC F (unless otherwise noted). Sheathing to be glued v 	thick T&G Plywood or OSB, APA Rated PS1 or PS2 for OSB), with 48/24 span rating vith adhesives meeting APA Spec. AFG-01	Bottom Chord Dead Load 10 p Bottom Chord Live Load 10 p sec	osf osf min. (see the "DESIGN LOAD tion of the general notes)
	and fastened with 8d common nails spaced at 6"o 12"o.c. at interior intermediate supports (field) with otherwise noted. Lay floor sheathing with long dim	c. at panel perimeter supported edges and 1 3/8" min. fastener penetration, unless rension perpendicular to support members	Drag Loads As i	ndicated on plans
	and stagger sheathing panels in a row one half pa fastened to cold-formed metal framing with flathea edges and 12" o.c. at intermediate supports.	nel length with previous row. Sheathing to be ad teks 8-18 x 1-5/16" at 6" o.c. along panel	unbalanced snow loading, or valley snov diagrams shown and any wind loading a (see the DESIGN LOADS / CODE section	/ conditions, as well as loads and s specified in the project building on of the general notes).
	 All roof sheathing panels shall be 5/8" thick unless loads Plywood or OSB, APA Rated Sheathing EX for OSB), with span rating of 40/20 at 5/8" panels 	noted 3/4" at roofs w/ heavy live and/or snow P 1 (C-D for Plywood) or (DOC PS1 or PS2 and 48/24 at 3/4" panels (unless otherwise	 Design all trusses for the following deflection limits and bearing partitions: <u>Roof</u> 	coordinate for clearances over no
	noted). Fasten with 8d common nails spaced at 6' 6"o.c. at interior intermediate supports (field) with otherwise noted. Lay roof sheathing with long dim	'o.c. at panel perimeter supported edges and 1 3/8" min. fastener penetration, unless ension perpendicular to support members and	Live/ Snow/ Wind Load: L/36 Total Load: L/24	<u>30 or 3/4" Vertical and 3/8" Horizo 10 or 1 1/4" Vertical and 1/2" Horiz</u>
	stagger sheathing panels in a row one half panel l sheathing at roof pitch breaks with blocking.	ength with previous row. Support edges of	Note: Isolate non-load bearing partitions from truss loads while providing lateral support.	es to prevent the transfer of vertic
	 Framing for walls, joists, rafters beams and header 2, unless noted. Dimensioned lumber represents below: 	ers shall be Spruce-Pine-Fir (SPF) No. 1/ No. nominal sizes. See minimum properties	 Truss design is delegated for design by the truss suppli bracing and restraint will not be known until delegated of and locations are intended to show design intent and ar 	er's structural engineer. Locations lesign is complete. TFM bracing o e subject to change.
	9. Wood exposed to the weather or in contact with c (P.T.) Southern Pine No. 1, unless noted. See mir	oncrete or masonry shall be pressure treated nimum properties below:	All locations of continuous lateral restraint (CLR) for ind determined by the truss design engineer and noted on t	ividual truss members shall be the truss design and layout drawir
Е	10. Laminated Veneer Lumber (LVL) members shall k manufactured by Weyerhaeuser or approved equ	be 1.9E Trus Joist Microllam LVL as valent. See minimum properties below:	7. The truss manufacturer may provide trusses that includ applied continuous lateral restraint (CLR). Design is sult to a sub-	e individual web members requiri
	11. Parallel Strand Lumber (PSL) members shall be 2 Parallam PSL as manufactured by Weyerhaeusei	2.0E (Beam) or 1.8E (Columns) Trus Joist or approved equivalent. See minimum	Minimum member properties fb=875 psi, e=1400 k Minimum web member size - 2x4 Minimum chord member size - 2x6	SÌ
	properties below. 12. Wood framing shall have the minimum design val	ues:	Minimum brace (CLR) size - 2x4 Web lengths less than 6'-0" are not permitted to red No more than (1)-(CLR) permitted per web	ceive (CLR)
	Species / Material Spruce-Pine Fir (SPF) No. 1/ No. 2:	Min. Design Values <u>E (psi) Fb (psi) Fv (psi)</u> 1.4e6 875 135	(CLR) locations shall be clearly shown on truss des Provide a "T" or "L" brace where (CLR) cannot be i consecutive truss web members together	ign drawings (TDD) nstalled to tie a minimum of (3)
	Southern Pine (SP) No. 1: Laminated Veneer Lumber (LVL) 1.9E members: Parallel Strand Lumber (PSL) 2.0E (Beams):	1.4e61,1001751.9e62,6002852.0e62,900290	The truss design drawings (TDD) shall show "T" or required fastening.	"L" brace size, length, location ar
	Parallel Strand Lumber (PSL) 1.8E (Columns): Laminated Strand Lumber (LSL) 1.3E (Joists / Stu Laminated Strand Lumber (LSL) 1.55E (Beams/ F	1.8e62,400190ids):1.3e61,700400leaders):1.55e62,325310	Note: Truss manufacturer may increase web memi applied reinforcement in lieu of (CLR), "T" or	per properties or provide alternate "L" braces.
	Glulam 24F-V4 SP/SP (Beams): 13. Pressure treated (P.T.) wood shall meet the follov	1.8e6 2,400 210 ving standards for each condition of use:	Alternatively, the truss designer may design all trus lateral restraint is required.	s web members such that no per
	Condition Interior Construction:	Pressure Min. AWPA Treatment Retention Category	 The truss manufacturer shall design, detail and specify connections necessary for the installation of the trusses 	all hardware for all truss to truss 3.
	(Wood not exposed to weather, in contact with concrete or masonry)	CCA, ACQ-C,D .25 UC2 CA-B .1 UC2 MCA-C .05 UC2	 All Truss Girder plies shall be fastened together by the the stamped Truss Design Drawings. 	manufacturer in the shop as spec
D	Above Ground, exterior construction: (Beams, joists and stringers not in contact with the ground)	CCA, ACQ-C,D .25 UC3B CA-B .1 UC3B	 Provide hot-dipped galvanized fasteners and connector The contractor shall ensure proper handling, bracing, and 	s at all exterior trusses. nd lateral restraint is in accordanc
	Ground Contact, fresh water <u>:</u> (Posts and members exposed to weather	<u>MCA-C .05 UC3B</u> CCA, ACQ-C,D .4 UC4A	the manufacturer's recommendations. 12. The contractor shall verify the location of all vents, stac	ks, risers, drains, etc. before trus:
	and in ground contact)	CA-B .21 UC4A MCA-C .15 UC4A	fixed in place. 13. All roof trusses shall have mechanical connection (H2.5	5 hurricane clips), unless otherwis
	Treated Sheathing Chromated Copper Arsenate (CCA), Alkaline Cop	per Quaternary (ACQ), Copper Azole (CA)	noted, installed at each bearing location and end of eac to bearing plate shall be capable of withstanding uplift lo drawings. See details and approved truss shop drawing	h truss. Mechanical connection o bads shown on approved truss sh gs for final hurricane clip informati
	and Micronized Copper Azole (MCA) Field treat cut ends of P.T. wood with Copper Nar	hthenate preservative such as Copper-	 All temporary bracing design and erection procedures a Contractor / Erector. 	are the responsibility of the Gener
	Greene. 14. Wood to steel and wood to wood bolted connecto	rs shall be made with ASTM A307 bolts with	 Pre-engineered trusses shall be approved by the Struct be in accordance with applicable section of IBC. Truss 	ural Engineer. All truss submittals shop drawings shall be designed,
	flat washers. Bolt holes in wood shall be 1/32" larg fastened with (2) rows of 1/2" diameter carriage by noted.	ger than the bolt. Wood nailers shall be olts staggered at 2'-0" o.c. unless otherwise	stamped and submitted by a licensed professional engi state where the project is located. Submittal shall incluc for each truss, including but not limited to: pitch, span c	neer qualified to perform the work le all loading combinations, a full amber, configuration deflection a
	 Shear wall holdown anchor bolts and threaded roc 3/4" or less and high-strength (HS) anchor bolts A 	ds shall be ASTM F1554 Gr. 36 for diameters STM F1554 Gr. 55, Supplement 1 (weldable)	spacing for each type of truss required; species, sizes a details; connector plate size, material, finish, design val forces, reactions, bearing requirements; temporary/per	and stress grades of lumber; splic ues, orientation and location; mer manent lateral truss restraint layo
С	for diameters larger than 3/4". Anchors cast in cor anchor bolts are not permitted. Provide diameters as per manufacturer.	ncrete shall be headed bolts, hooked ("J" type) and dimensions detailed within schedule or	details. 16. Shop or Erection (placement) drawings shall be submit	ted to the Structural Engineer shc
	 Anchor bolts for wood sill plates to concrete shall of the diameters and dimensions detailed or noted 	be min. ASTM A307 headed or hooked bolts I on the drawings.	the truss layout and spacing, fastening and anchorage truss to truss connectors.	details, all bracing requirements a
	 Fastening Schedule: See applicable IBC table "Fa for fastening/nailing requirements. 	stening Schedule" and Typical Detail Sheets	17. Truss bracing indicated on truss sheets, bracing indicat necessary bracing shall be coordinated by the supplier be submitted to the Engineer for review and approval to	ed on TFM drawings and other and shown on a layout drawing th o verify compliance with Engineer
	 Top plates: Bearing and exterior wall studs shall b otherwise), installed to provide overlapping at cor 	e capped with double top plates (unless noted ners and wall intersections with other	design intent of permanent bracing. 18. Submittals to the Structural Engineer shall include Trus	s Design Drawings, truss layout
	partitions. End joints in top plates shall be offest n 19. Wood posts / columns shall have metal cap and t	o less than 48". base connectors at top and bottom unless	drawings and truss bracing layout drawings, signed and registered in the state of the project's construction, resp	I sealed by the professional engin onsible for their preparation.
	otherwise noted. 20. The lateral bracing system includes plywood wall	and roof sheathing. Contractor shall provide		
	temporary bracing as required to laterally support 21. Provide lateral support at all bearing points and al	the structure during construction.		
	or closer. 22. Minimum section width = 1 3/4". The 3 1/2", 5 1/4	, and 7" members may be combinations of 1		
	3/4" members. Follow manufacturers guidelines fo loaded beams.	or Multiple Member Connections for side		
В	 Wood Construction Connectors shall be manufact Industries, Inc. or approved equal and installed in recommendations. 	tured by Simpson Strong-Tie Co., MiTek accordance with the manufacturers		
	24. All wood fasteners and hangers in contact with protected (FRT) lumber are to be stainless steel or h	essure treated (P.T.) and or fire retardant ot dipped galvanized (min 2.0 oz/ft^2).		
	Hangers located in Ocean/Water Front environme 25. All non-load bearing / non-structural walls shall be	ents shall be stainless steel. held down from joists / rafters / trusses		
	above. 26. The Contractor shall retain the service of a certific	d lumber grader to identify the existing wood		
	members that have rot, insect damage, severely of deteriorated to the point that it needs to be either be identified before proceeding with any work.	cracked, checked, split or otherwise have reinforced or replaced. Existing conditions to		
	27. Shop or Erection (placement) drawings shall be s the layout, sizes and anchorage details for all eng	ubmitted to the Structural Engineer showing ineered lumber framing.		
	28. Submittals to the Structural Engineer shall include product data, engineered lumber product data.	engineered lumber and hanger / connections		

ated wood trusses shall conform to applicable ANSI/TPI-1 for Metal Plate Connected Wood Truss Construction."

engineered trusses shall be a Truss Plate Institute (TPI) certified all be submitted to the Engineer prior to fabrication of the wood

the following uniform loads with 5 1/2" or 3 1/2" max. bearing,

12 psf (increase the load based on the roof slope in order to calculate the horizontal

5 psf (solar array allowance) 20 psf (min.) (see the "DESIGN LOADS" section of the general notes) (see the "DESIGN LOADS" section of the general notes)

10 psf min. (see the "DESIGN LOADS" section of the general notes) As indicated on plans

hall be designed at indicated spacings for any snow drift, ow loading, or valley snow conditions, as well as loads and wn and any wind loading as specified in the project building code GN LOADS / CODE section of the general notes).

wing deflection limits and coordinate for clearances over non-

L/360 or 3/4" Vertical and 3/8" Horizontal L/240 or 1 1/4" Vertical and 1/2" Horizontal aring partitions from trusses to prevent the transfer of vertical

design by the truss supplier's structural engineer. Locations of all be known until delegated design is complete. TFM bracing details show design intent and are subject to change.

eral restraint (CLR) for individual truss members shall be gn engineer and noted on the truss design and layout drawings.

provide trusses that include individual web members requiring field traint (CLR). Design is subject to the following conditions:

r may increase web member properties or provide alternate shop ent in lieu of (CLR), "T" or "L" braces.

signer may design all truss web members such that no permanent

fastened together by the manufacturer in the shop as specified on

roper handling, bracing, and lateral restraint is in accordance with

location of all vents, stacks, risers, drains, etc. before trusses are

echanical connection (H2.5 hurricane clips), unless otherwise ng location and end of each truss. Mechanical connection of truss ble of withstanding uplift loads shown on approved truss shop proved truss shop drawings for final hurricane clip information.

be approved by the Structural Engineer. All truss submittals shall able section of IBC. Truss shop drawings shall be designed, licensed professional engineer qualified to perform the work in the ated. Submittal shall include all loading combinations, a full report not limited to: pitch, span camber, configuration deflection and required; species, sizes and stress grades of lumber; splice material, finish, design values, orientation and location; member uirements; temporary/permanent lateral truss restraint layouts and

drawings shall be submitted to the Structural Engineer showing fastening and anchorage details, all bracing requirements and all

uss sheets, bracing indicated on TFM drawings and other pordinated by the supplier and shown on a layout drawing that shall for review and approval to verify compliance with Engineer's

ngineer shall include Truss Design Drawings, truss layout yout drawings, signed and sealed by the professional engineer, project's construction, responsible for their preparation.

| 5

COLD-FORMED STEEL FRAMING:

- 1. Design, Fabricate, and Install cold-formed steel framing members and accessories plumb, square, and true to line, and with connections securely fastened, according to manufacturer's written recommendations and requirements, the requirements of the applicable International Building Code (IBC) and the applicable edition of the American Iron and Steel Institute (AISI) Specification.
- 2. Fasten cold-formed steel framing members by welding or screw fastening, as standard with fabricator. Wire tying of members is not permitted.
- 3. Comply with AWS D1.3 requirements and procedures for welding, appearance and quality of welds, and methods used in correcting welding work.

4. Locate mechanical fasteners and install according to shop drawings, with screws penetrating

- joined members by not less than three exposed screw threads. 5. Provide cold-formed roof, floor, and wall metal framing members, connectors, and fasteners in accordance with the plan and detail drawings.
- 6. Roof, floor, and wall framing members shall be standard C-shaped steel joists, unpunched, with stiffened flanges, complying with ASTM C 955 and as follows:

7. Provide cold-formed steel framing capable of withstanding design loads within limits and under conditions indicated.

Design loads shall be in accordance with applicable IBC Sections of Wind Loads and

Earthquake Loads for components and cladding. Design Exterior Non-load-bearing wall framing for a maximum horizontal deflection of 1/360 and at CMU bakup maximum horizontal deflection of 1/600 of the wall span.

dard C-shaped steel studs with:	
/inimum Uncoated Thickness:	20 GA. (.0329 in.)
/inimum Flange Width:	1 5/8"
/linimum Lip:	1/2"
Specified Yield Strength:	Fy = 33 ksi (18 GA and thinner) Fy = 50 ksi (16 GA and thicker)
/aximum stud spacing:	16" on center.

Stan

8. All galvanized studs, track, bridging, and accessories shall be formed from steel having a galvanized coating meeting the requirements of ASTM A 653.

- 9. Isolate non-load-bearing steel framing from building structure to prevent transfer of vertical loads while providing lateral support. Connect vertical deflection clips bypassing studs and anchor to primary building structure.
- 10. Install horizontal bridging in walls studs, spaced in rows indicated on Shop Drawings but not more than 48 inches apart. Fasten at each stud intersection. Bridging shall be determined by stud manufacturer.
- 11. All framing members shall be manufactured and supplied by Dietrich Industries, MarinoWare or approved equal.
- 12. Shop/Erection drawings shall be submitted to the Structural Engineer showing the layout, spacing, sizes, thickness, and types of cold formed steel framing, fastening and anchorage details, including mechanical fasteners.
- 13. Submittals to the Structural Engineer shall include structural analysis data signed and sealed by the professional engineer, registered in the state of the project's construction, responsible for their preparation.
- COLD-FORMED STEEL FRAMING (PURLINS & GIRTS)
- 1. Design, Fabricate, and Install cold-formed steel framing members and accessories plumb, square, and true to line, and with connections securely fastened, according to manufacturer's written recommendations and requirements, and the requirements of the applicable International Building Code (IBC) and the applicable edition of the American Iron and Steel Institute (AISI) Specification.
- 2. All framing members to be as indicated on drawings and as manufactured and supplied by [Canam] or approved equal.
- 3. Purlins and Girts shall be constructed of steel sheet conforming to ASTM 607 (Grade 50).
- 4. Purlins and Girts shall be minimum of 16 GA.

4

- 5. Protect cold-formed steel members from corrosion during construction.
- 6. All cold-formed steel framing members and accessories to receive primer in accordance with manufacturer's recommendation. Minimum dry film thickness of 1.5 to 2.0 mils without sags, runs or other film irregularitites. Touch up in the field by the Contractor, unless otherwise noted. [Do not prime steel with fireproofing, see Architect for extent of areas to receive spray on fireproofing.]
- 7. Shop or Erection drawings shall be submitted to the Structural Engineer showing the layout, spacing, sizes, thickness, and types of cold formed steel framing, fastening, base plates and sag rods (where required) and anchorage details, including mechanical fasteners.
- 8. Submittals to the Structural Engineer are required for product data and design manual.

STRUCTURAL TESTS AND INSPECTIONS:

- submitted in writing to the Structural Engineer and Contractor.
- inspections for each building material/system.
- professional engineer registered in the state the project is located in.
- according [to the Statement of Special Inspections.

- Inspections.
- 8. Structural Observations: perform quality control.

1. Structural Tests, Inspections, and Reports for soils, pier foundations, concrete construction, masonry construction, steel construction and other applicable construction shall be promptly

2. Tests and Inspections shall be completed in accordance with the applicable IBC Special Inspection chapter. Refer to and coordinate with the Statement of Special Inspections/Quality Assurance Plan issued with final construction documents for the required program of special

3. The Special Inspection Coordinator shall be a licensed Professional Engineer registered in the state the project is located in. Unless specifically stated in writing and listed on the Statement of Special Inspections, TFM is not the Special Inspector or Special Inspections Coordinator and this service shall be provided as a direct contract to the Owner as per the Building Code.

4. A Final Statement of Special Inspections, stamped by the Special Inspector Coordinator, shall be provided to TFM at the completion of the project. The document shall be stamped by a

5. Remove and replace work where test results indicate that it does not comply with specified requirements. Additional testing and inspecting, at Contractor's expense, will be performed to determine compliance of replaced or additional work with specified requirements.

A. Concrete Masonry Units (CMU), Mortar, Grout, and Prism Testing: Shall be performed

B. Concrete Testing: Testing of composite samples of fresh concrete obtained according to ASTM C 172 shall be performed according to the Statement of Special Inspections.

6. Wood Construction Inspections: Inspection of the wood construction shall be performed according to the Statement of Special Inspections.

7. Structural steel inspections: Shall be performed according to the Statement of Special

Notify engineer of progress of construction for coordination of site observations per Chapter 17 of the International Building Code (IBC). These observations are intended for review of general design intent and do not relieve the general contractor of their responsibility to



6 SOUTH PARK STREET LEBANON, NH 03766 T: 603 448 3778

COPYRIGHT © 2022 BANWELL ARCHITECTS ALL RIGHTS RESERVED. NO REPRODUCTION WITHOUT PRIOR WRITTEN PERMISSION CONSULTANTS / DESIGN TEAM: OWNER: TOWN OF WOLFEBORO PO BOX 629 WOLFEBORO, NH 03894

CONSTRUCTION MANAGER: CONNESTON CONSTRUCTION, INC 132 S MAIN STREET LACONIA, NH 03246 T: (603) 524-3776

CIVIL: NORWAY PLAINS ASSOCIATES, INC 2 CONTINENTAL BLVD ROCHESTER, NH 03867 T: (603) 335-3948

STRUCTURAL: TFMORAN, INC **48 CONSTITUTION DRIVE** BEDFORD, NH 03110 T: (603) 472-4488

ARCHITECT: BANWELL ARCHITECTS, NH 6 SOUTH PARK STREET LEBANON, NH 03766 T: (603) 448-3778

MEP/FP: CHARLES P. BUCKLEY, P.E. **500 DEPOT STREET** RUMNEY, NH 03266 T: (603) 786-9992

> VITAL INFORMATION REQUIRED FOR THE SUCCESSFUL COMPLETION OF THE WORK IS CONTAINED IN THE PROJECT MANUAL PREPARED FOR THIS PROJECT



REVISION DATE COMMENTS

KEY PLAN & NORTH ARROW:

PROJECT: B WOLFEBORO PUBLIC SAFETY BUILDING SOUTH MAIN STREET,

WOLFEBORO, NH ISSUED:

DESIGN DEVELOPMENT

DRAWING TITLE:

GENERAL STRUCTURAL NOTES (CONT.)

PROJECT NO: 22-950 DATE: 5-31-2023 SHEET NUMBER:



2

		7		6		
Wolfeboro Public Safety Bu	ildina – Wolfeboro	NH	Page 1 of 16		Wolfeboro Public Safety I	Building –
Statement of S	necial Ins	nections			Schedule of l	nenec
	pecial ms	bections			Schedule of h	ispec
Project: Wolfeboro P Location: 251 S Main S Owner: City of Wolfe Owner's Address: 251 Registered Design Profes	ublic Safety Buildir Street, Wolfeboro, boro S Main Street, Wo ssional in Respons	ng NH Ifeboro, NH sible Charge: TFMoran Inc. 48 Constitution	n Drive – Bedford, NH 03110		This Statement of Specia Soils and Fou Cast-in-Place Post-Installed Precast Cond Shotcrete Masonry Ley	al Inspecti undations Concrete Concrete rete
Architect of Record: Ba	nwell Architects				Masonry Leve Structural Ste	el 2
This Statement of Special the Special Inspection and	Inspections is sub Structural Testing	mitted as a condition for perm requirements of the Building (nit issuance in accordance with Code. It includes a schedule of		Cold-Formed	Steel Fra
Special Inspection service identity and qualifications as applicable. This Statem	s applicable to this of other parties to t nent of Special Ins Structural Architectural	project as well as the name of retained for conducting observentions encompass the follow Mechanical/Electrical/Pl	of the approved agency and the ervations, inspections and tests ving disciplines: lumbing		Special Inspection A	gencies
The approved agency sha	all keep records o	of all inspections and shall fu	rnish inspection reports to the		1 Approved Agency	
Building Official and the Re and missing inspections sh discrepancies are not corr Building Official and the R	gistered Design Pr all be brought to th rected or inspectio egistered Design I	rofessional in Responsible Cha ne immediate attention of the C ns are missing, they shall be Professional in Responsible C	arge. Discovered discrepancies contractor for correction. If such brought to the attention of the harge. The Special Inspection		n rippiorou rigonoj	
program does not relieve perform quality control or	the Contractor of to be responsible	his or her responsibilities to for other items per the buildin	g code, permit documents and		 Materials Testing a Inspections Agence 	and wiif
standard practice.					different from item	1)
Interim reports cataloging compliance and outstand Building Official and the Re	completed tests a ing items shall be egistered Design P	nd inspections for all special completed by the approved professional in Responsible Ch	inspections agencies including agency and submitted to the harge on a Monthly basis.		5. Geolecrinical Engl	neer
A Final Approved Agency Inspections, testing and co	Report of Special rrection of any dis	Inspections documenting cor crepancies noted in the inspec	mpletion of all required Special tions shall be submitted prior to		EIFS Inspector	
issuance of a Certificate of	Use and Occupar	ncy.			5. Mechanical Engine	eer
Job site safety and means	and methods of co	onstruction are solely the resp	onsibility of the Contractor.			
					6. Architect	
Prepared by:]		
Thomas E. Lamb					7. Structural Enginee	er of
(type or print name)					Record	
					Note: The inspection and testi Contractor or Subcontra disclosed to the Building	ng agent ictor whos Official, p
Signature		Date	Design Professional Seal		Seismic Design Catego	rv.
Owner's Authorization: (Owner to return signed copy to	TFMoran Inc.)	Building Official's	Acceptance:		Ultimate Wind Speed (3 Second
					Wind Exposure Catego	ry:
Signature	D	ate Signature	Date	-		
CASE F	orm 101 • Staten	nent of Special Inspections •	©CASE 2004		CASE	Form 101
Wolfeboro Public Safety Bu	ildina – Wolfeboro	NH	Page 4 of 16		Wolfeboro Public Safety I	Buildina –
Soils and Foundati	one				Cast-In-Place Cor	ncrete
m	Agent No.	Scope				
Shallow Foundations	(Qualification)	Inspect soils below footings f	for adequate bearing capacity	Ite	łm	Ager (Qualif
	(PE/GE)	and verify compliance with th report and Contract Docume	e approved geotechnical nts.	1.	Mix Design	(ACI d
	(PE/GE)	subgrade prior to placement	of controlled fill.	2.	Material Certification	
Controlled Structural Fill	2 or 3 (EIT)	Perform sieve tests and mod source of fill material and ver approved geotechnical report	ified Proctor tests of each ify compliance with the t and Contract Documents			(ACI o
		Continuouelu inenset motorio	l used interconnect including	3.	Reinforcement	1
	3 (PE/GE)	extent and slope, and lift thic with the approved geotechnic Documents.	kness and verify compliance cal report and Contract		Installation	(EII or I
		Perform in-place dry density	tests of the compacted fill for	4.	Welding of Reinforcement	(4)
	2 or 3 (EIT)	each lift and verify compliant geotechnical report and Cont	e with the approved tract Documents.		Cost is Disso	100
Cast-In-Place Deep Foundations	3 (PE/GE)	Continuously inspect and log Provide a record of the pier in load tests. Records shall incl plumbness, pier diameter. be	pier drilling operations. Installation and results of any ude placement locations, all diameter, length.	5.	Cast-In-Place Anchor Rods	(EIT or I

embedment into bedrock, adequate end-bearing strata

Verify the contractor's underpinning procedures for compliance with the Contract Documents and the

Inspect soils below underpinning for adequate bearing capacity and verify compliance with the approved

Observe within the building perimeter placement of

underslab and perimeter drainage elements, including crushed stone, perforated pipes, and geocomposite drains and verify compliance with the approved geotechnical report and Contract Documents.

Geotechnical Engineer's recommendations.

geotechnical report and Contract Documents.

capacity, concrete or grout volumes, and verification that piers comply with the approved geotechnical report and Contract Documents.

1 or 3 (EIT)

3 (PE/GE)

2 or 3 (PE/GE)

6

8

Underpinning

5. Drainage

6. Other

8

g – Wolfeboro, NH

Page 2 of 16

4

ection and Testing Agencies

pections includes the following building systems:			
ations ncrete ncrete Anchorage	 Prefabricated Wall Panels Sprayed Fire Resistant Material Mastic and Intumescent Coatings Wood Construction Prefabricated Wood Trusses Glue Laminated Wood Construction Exterior Insulation and Finish System 		
el Framing Id-Formed Steel Trusses	Mechanical & Electrical Systems Architectural Systems Special Cases		

ncies	Minimum Qualifications(unless waived by the building official)	Firm	Address & Telephone
	Professional Engineer licensed in the state which the project is located and see page 3	TBD	TBD
	See page 3	TBD	TBD
ər	Professional Engineer licensed in the state which the project is located	TBD	TBD
	See page 3	TBD	TBD
	Professional Engineer licensed in the state which the project is located	Charles P. Buckley, P.E., LLC	500 Depot St Rumney, NH 03266 (603) 786-9992
	Registered Architect in licensed the state which the project is located	Banwell Architects	The Carriage House 6 Park Street Lebanon, NH 03766 (603) 448-3778
f	Professional Engineer licensed in the state which the project is located	TFMoran, Inc.	48 Constitution Dr Bedford, NH 03110 (603) 472-4488

ent shall be engaged by the Owner or the Owner's Agent, and not by the hose work is to be inspected or tested. Any conflict of interest must be I, prior to commencing work.

D ond Gust)(mph): 124 D

101 • Statement of Special Inspections • ©CASE 2004

- Wolfeboro, NH

Page 5 of 16

4

Agent No. Qualification)	Scope
2 (ACI or ICC)	Review concrete batch tickets and verify compliance with the approved mix designs and Contract Documents. Verify that water added at the site does not exceed that allowed by the mix design.
2 (ACI or ICC)	In the absence of sufficient data or documentation providing evidence of conformance to quality standards for material in Chapter 3 of ACI 318, perform material tests in accordance with the appropriate standards and criteria.
1 & 2 (EIT & ACI or ICC)	Periodically inspect size, spacing, cover, positioning, laps, splices, and grade of reinforcing steel and verify compliance with the approved shop drawings and Contract Documents. Verify that bars are free of oil or other materials, adequately tied, and supported on chairs or bolsters.
2 (AWS)	Visually inspect 100% of reinforcing steel welds for compliance with the approved shop drawings and Contract Documents. Verify weldability of reinforcing steel other than ASTM A706.
1 & 2 (EIT & ACI or ICC)	Continuously inspect size, length, spacing, edge distance, positioning, and embedment of anchor rods and verify compliance with the approved shop drawings and Contract Documents. Verify concrete placement and consolidation around anchors.
1 (EIT)	Periodically inspect shape, location, and dimensions of the concrete member being formed and verify compliance with the approved shop drawings and Contract Documents.
2 (ACI or ICC)	Continuously inspect placement of concrete. Verify that concrete conveyance and depositing avoids segregation or contamination and that concrete is properly consolidated.
2 (ACI or ICC)	Perform concrete tests for compressive strength (ASTM C31 & ASTM C39), slump (ASTM C143), air content (ASTM C231 or ASTM C173), and temperature (ASTM C1064) and verify compliance with the approved mix designs and Contract Documents. Make one test set for each day's pour exceeding 5 cubic yards plus one test set for each additional 150 cubic yards or fractions thereof from each mix design of concrete placed in any one day or for each 5000 square feet of surface area for slabs or walls.(only one side is considered in calculating area) If total quantity of a given concrete mixture is less than 50 cubic yards, strength tests are not required if evidence of satisfactory strength is submitted to and approved by the building official.
1 & 2 (EIT & ACI or ICC)	Periodically inspect maintenance of specified concrete curing temperature and protection techniques. Verify the contractor's cold and hot weather protection procedures for compliance with ACI306R (for cold weather), ACI305R (for hot weather), and the Contract Documents.

Definitions

Continuous Inspection: The full-time observation of work requiring inspections by an approvagent who is present in the area where the work has been or is been and at the completion of the work. Periodic Inspection: The part-time observation of 50% of the work requiring inspection by inspection agent who is present in the area where the work has been or is performed and at the completion of the work. Qualifications of Inspectors and Testing Technician The qualifications of all personnel performing Special Inspection and testing activities are approval of the Building Official. The credentials of all Inspectors and testing technicians shall frequested.	2 0 1 1 1 1 0 1 0				
Periodic Inspection: The part-time observation of 50% of the work requiring inspection by inspection agent who is present in the area where the work has be performed and at the completion of the work. Qualifications of Inspectors and Testing Technician The qualifications of all personnel performing Special Inspection and testing activities are approval of the Building Official. The credentials of all Inspectors and testing technicians sha if requested.	Continuous Inspection:	The full-time observation of work requiring inspections by an approved agent who is present in the area where the work has been or is being and at the completion of the work.			
Qualifications of Inspectors and Testing Technician The qualifications of all personnel performing Special Inspection and testing activities are approval of the Building Official. The credentials of all Inspectors and testing technicians sha if requested.	Periodic Inspection:	The part-time observation of 50% of the work requiring inspection by an inspection agent who is present in the area where the work has been performed and at the completion of the work.			
The qualifications of all personnel performing Special Inspection and testing activities are approval of the Building Official. The credentials of all Inspectors and testing technicians sha if requested.	Qualifications of Inspectors and Testing Technicians				
	The qualifications of all personnel performing Special Inspection and testing activities are sub approval of the Building Official. The credentials of all Inspectors and testing technicians shall b if requested.				

2

Key for Minimum Qualifications of Inspection Agents:

When the Registered Design Professional in Responsible Charge deems it appropriate that the performing a stipulated test or inspection have a specific certification or license as indicated designation shall appear below the Agency Number on the Schedule.

PE/SE PE/GE EIT	Structural Engineer – a licensed PE or SE specializing in the design of building Geotechnical Engineer – a licensed PE specializing in soil mechanics and foun Engineer-In-Training – a graduate engineer who has passed the Fundamentals Engineering examination
American C	oncrete Institute (ACI) Certification
ACI-CFTT	Concrete Field Testing Technician – Grade 1
ACI-CCI	Concrete Construction Inspector
ACI-LTT	Laboratory Testing Technician – Grade 1&2
ACI-STT	Strength Testing Technician
American W	elding Society (AWS) Certification
AWS-CWI	Certified Welding Inspector
AWS/AISC-S	SSI Certified Structural Steel Inspector
AWS-CWI AWS/AISC-S	SSI Certified Structural Steel Inspector

American Society of Non-Destructive Testing (ASNT) Certification ASNT Non-Destructive Testing Technician – Level II or III

AGINT	Non-Destructive resting recrimician - cevern or m
International C	ode Council (ICC) Certification
ICC-SMSI	Structural Masonry Special Inspector
ICC-SWSI	Structural Steel and Welding Special Inspector
ICC-SFSI	Spray-Applied Fireproofing Special Inspector
ICC-PCSI	Prestressed Concrete Special Inspector
ICC-RCSI	Reinforced Concrete Special Inspector
National Institu	Ite for Certification in Engineering Technologies (NICET)
NICET-CT	Concrete Technician – Levels I, II, III & IV
NICET-ST	Soils Technician – Levels I, II, III & IV
NICET-GET	Geotechnical Engineering Technician – Levels I, II, III & IV
Exterior Design	n Institute (EDI) Certification
EDI-EIFS	EIFS Third Party Inspector
Other PE/ME	Mechanical/Electrical/Plumbing Engineer – a licensed PE specializing in th

PE/ME	Mechanical/Electrical/Plumbing Engineer – a licensed PE specializing in the de
	mechanical, electrical and plumbing building systems
SCSI	Smoke Control Special Inspector
RA	Registered Architect specializing in the design of architectural building systems
	CASE Form 101 Statement of Special Inspections

Wolfeboro Public Safety Building – Wolfeboro, NH

Post-Installed Concrete Anchorage

lte	m	Agent No. (Qualification)	Scope
1.	Post-Installed Anchor Rods and Dowels	1 & 2 (EIT & ACI or ICC)	Review manufacturer's ESR reports to det the level of inspection (periodic or continue required.
		(ACI or ICC)	If required by the Engineer of Record or S, Inspector prior to or during construction, p test anchor rods and dowels per AC308 as by the Engineer of Record or Special Insp
		Mechan	ical Anchors
1.	Anchor Positioning	1 & 2 (EIT & ACI or ICC)	Inspect location, edge distance, and spaci anchors and verify compliance with the Co Documents.
2.	Anchor Materials and Procedures	1 & 2 (EIT & ACI or ICC)	Inspect anchor type, material, size, length, method, drill bit type and size, hole cleanin procedures, and anchor installation and se procedures and verify compliance with manufacturer's printed installation instruct the Contract Documents.
3.	Slab Installation	1 & 2 (EIT & ACI or ICC)	Verify anchors installed into slab, verify ho does not break through to opposite side of
4.	Torque Controlled Anchors	1 & 2 (EIT & ACI or ICC)	Verify number of full turns required to achi torque.
		Adhes	ive Anchors
1.	Anchor Positioning	1 & 2 (EIT & ACI or ICC)	Inspect location, edge distance, and spaci anchors and verify compliance with the Co Documents.
2.	Anchor Materials and Procedures	1 & 2 (EIT & ACI or ICC)	Inspect anchor type, material, size, length, method, drill bit type and size, hole cleanin procedures, and anchor installation and se procedures and verify compliance with manufacturer's printed installation instruct the Contract Documents.
3.	Slab Installation	1 & 2 (EIT & ACI or ICC)	Verify anchors installed into slab, verify ho does not break through to opposite side of
4.	Expiration and Storage	1 & 2 (EIT & ACI or ICC)	Inspect expiration dates of materials and s conditions of the adhesive and verify comp with manufacturer's printed installation ins
5.	Anchor Elements	1 & 2 (EIT & ACI or ICC)	Inspect anchor elements for substances the interfere with bond, for undamaged thread loose rust.
6.	Temperature	1 & 2 (EIT & ACI or ICC)	Verify concrete and ambient temperature i the acceptable range for adhesive installa manufacturer's printed installation instruct
7.	Hole Protection	1 & 2 (EIT & ACI or ICC)	Verify holes drilled in advance of anchor in are protected from contaminants and mois are recleaned prior to anchor installation p manufacturer's printed installation instruct

2

| 1

	1		
Page 3 of 16			Vbanwell
d inspection g performed			A R C H I T E C T S THE CARRIAGE HOUSE 6 SOUTH PARK STREET
an approved n or is being			LEBANON, NH 03766 T: 603 448 3778
;		C	DPYRIGHT © 2022 BANWELL ARCHITECTS ALL RIGHTS RESERVED. NO REPRODUCTION WITHOUT PRIOR WRITTEN PERMISSION CONSULTANTS / DESIGN TEAM:
ubject to the be provided			OWNER: TOWN OF WOLFEBORO PO BOX 629 WOLFEBORO, NH 03894
he individual below, such		F	CONSTRUCTION MANAGER: CONNESTON CONSTRUCTION, INC 132 S MAIN STREET
g structures ndations Is of			T: (603) 524-3776
			NORWAY PLAINS ASSOCIATES, INC 2 CONTINENTAL BLVD ROCHESTER, NH 03867 T: (603) 335-3948
			STRUCTURAL: TFMORAN, INC 48 CONSTITUTION DRIVE BEDFORD, NH 03110 T: (603) 472-4488
			ARCHITECT: BANWELL ARCHITECTS, NH 6 SOUTH PARK STREET
		E	LEBANON, NH 03766 T: (603) 448-3778
			CHARLES P. BUCKLEY, P.E. 500 DEPOT STREET RUMNEY, NH 03266 T: (603) 786-9992
lesign of			
IS			
			VITAL INFORMATION REQUIRED FOR THE SUCCESSFUL COMPLETION OF THE WORK IS CONTAINED IN THE PROJECT MANUAL PREPARED FOR THIS PROJECT
Page 6 of 16		D	
4			SUCTOR
ious)			CR CONSTONN'S
proof load is directed pector.			PROTECT 2023
ing of ontract			REVISION DATE COMMENTS
n, drilling ing etting			
tions and		с	
ole anlling If slab. ieve			
			KEY PLAN & NORTH ARROW:
ing of ontract			
n, aniling ing etting			
tions and ole drilling			
storage			PROJECT
structions. hat might ds and for		В	WOLFEBORO PUBLIC SAFETY BUILDING SOUTH MAIN STREET,
is within ation per tions. nstallation			WOLFEBORO, NH
sture or per tions.			DESIGN DEVELOPMENT
			DRAWING TITLE: STATEMENT OF SPECIAL INSPECTIONS
			PROJECT NO: 22-950 DATE: 5-31-2023
			SHEET NUMBER:
			SO04

Wolfeboro	Public	Safety	Building	- Wolfeboro.	NH

Hole Depth

9. Concrete Age

11. Anchor Setting

10. Special Equipment

12. Trained Personnel

Horizontally or Upwardly

Inclined Anchors

14. Other

17

1&2

or ICC)

or ICC)

or ICC)

or ICC)

2 (ACI

or ICC)

2

(ACI

or ICC)

8

Page 7 of 16

Inspect hole depth and correct amount of adhesive

(EIT & ACI is installed per manufacturer's printed installation

1 & 2 Verify anchors are installed in concrete having a

1 & 2 Verify usage of special equipment as required per

(extension tubes, stoppers, end caps, etc.)

Continuously verify anchors horizontally or

upwardly inclined resisting sustained tension are

installed per manufacturer's printed installation instructions and are installed by a certified installer.

Verify installation is performed by trained personnel.

(EIT & ACI manufacturer's printed installation instructions

1 & 2 Verify anchor position is true with installation

(EIT & ACI surface with correct amount of adhesive installed

and secured against movement.

(EIT & ACI minimum age of 21 days at time of anchor

instructions.

installation.

Item Agent No. Scope					
		(Qualification)			
1.	Material Certification	1 (EIT)	Verify on-site materials for each type of structural masonry unit, mortar, grout, reinforcement, and admixtures for compliance with the approved submittals and Contract Documents.		
2.	Mixing of Mortar and Grout	2 (ICC)	Periodically inspect proportions, mixing, and retempering of on-site mortar (including premixed or preblended mixtures), site-prepared grout, and prestressing grout for bonded tendons and verify compliance with the Specification for Masonry Structures ACI 530.1/ASCE 6/TMS 602, approved submittals, and Contract Documents.		
3.	Installation of Masonry Units	1 & 2 (EIT & ICC)	Periodically inspect size, layout, and positioning of structural masonry units and verify compliance with the approved shop drawings and Contract Documents.		
4.	Mortar Joints	2 (ICC)	Periodically inspect the construction of mortar joints, including tooling and filling of head joints, and verify compliance with the Specification for Masonry Structures ACI 530.1/ASCE 6/TMS 602, approved submittals, and Contract Documents.		
5.	Reinforcement Installation	1 & 2 (EIT & ICC)	Periodically inspect size, spacing, cover, positioning, laps, splices, and grade of reinforcing steel and verify compliance with the approved shop drawings and Contract Documents. Verify that bars are free of oil or other materials.		
6.	Welding of Reinforcement	(AWS)	Visually inspect 100% of reinforcing steel welds for compliance with the approved shop drawings and Contract Documents. Verify weldability of reinforcing steel other than ASTM A706.		
7.	Grouting Operations	1 & 2 (EIT & ICC)	Continuously inspect placement and consolidation of grout including clean-outs for high-lift grouting and verify compliance with the Specification for Masonry Structures ACI 530.1/ASCE 6/TMS 602, approved submittals, and Contract Documents. Verify that grout space is clean.		
8.	Cast-In-Place Anchors and Ties	1 & 2 (EIT & ICC)	Continuously inspect size, length, spacing, positioning, embedment, and type of anchors and ties used to anchor masonry to structural members, frames, or other construction and verify compliance with the approved shop drawings and Contract Documents. Verify grout placement and consolidation around anchors.		
9.	Post-Installed Anchors and Dowels	1 & 2 (EIT & ICC)	Continuously inspect size, length, spacing, edge distance, positioning, embedment, type, torque (if applicable) and adhesive system (if applicable) of anchors and dowels used to anchor masonry to structural members, frames, or other construction and verify compliance with the approved shop drawings, Contract Documents, and manufacturer's specifications. Verify drilled holes (for proper preparation, size, depth, and cleaning) and installation for compliance with the manufacturer's specifications.		

Wolfeboro Public Safety Building – Wolfeboro, NH

Page 10 of 16

6

Ite	m	Agent No. (Qualification)	Scope
1.	Fabricator Certification/ Quality Control Procedure	1 (EIT)	Verify whether Fabricator holds a current AISC certification for the Standard for Steel Buildings Structures prior to fabrication.
	Fabricator Exempt	1 (EIT)	If so, shop inspection is not required. Request Fabricator's written procedural and quality control manuals for review. At completion of fabrication, request Fabricator's certificate of compliance stating that the work was performed in accordance with the approved construction documents.
		1 & 2 (EIT & AWS or ICC)	If not, perform shop inspection. Request Fabricator's written procedural and quality control manuals for review. Verify that the Fabricator maintains detailed fabrication and quality control procedures that provide a basis for inspection control of the workmanship and the Fabricator's ability to conform to approved construction documents and reference standards. Review the procedures for completeness and adequacy relative to the code requirements for the Fabricator's scope of work. At completion of fabrication, request Fabricator's certificate of compliance stating that the work was performed in accordance with the approved construction documents.
2.	Material Certification	1 (EIT)	Request for structural steel, steel deck, weld filler materials, high-strength bolts, nuts, and washers the manufacturer's certified mill test reports and certificates of compliance with the reference standards specified in the approved shop drawings and Contract Documents for review.
		2 (AWS or ICC)	Periodically verify identification markings of structural steel, steel deck, weld filler materials, high-strength bolts, nuts, and washers for conformance with the reference standards specified in the approved shop drawings and Contract Documents.
3.	Open Web Steel Joists	1 & 2 (EIT & AWS or ICC)	Periodically inspect erected joists, joist girders, end connections – welded or bolded, and bridging elements – horizontal or diagonal and verify compliance with the approved shop drawings and Contract Documents.
4.	Bolting	2 (AWS or ICC)	Periodically inspect high-strength, bearing type and slip-critical type bolted connections (using turn-of- nut with matchmarking, twist-off bolt, or direct tension indicator methods of installation) for required size, location, number of bolts, contact of plies, and tightening and verify compliance with the approved shop drawings and Contract Documents.
		2 (AWS or ICC)	Continuously inspect high-strength, slip-critical type bolted connections (using turn-of-nut without matchmarking or calibrated wrench methods of

17



8

Wolfeboro Public Safety Building – Wolfeboro, NH

Page 11 of 16

4

	installation) for required size, location, number of bolts, contact of plies, and tightening and verify compliance with the approved shop drawings and Contract Documents.
2 (AWS or ICC)	Request Welder Qualification Records (WQR) including process, location, position, size, type of weld, and verification of welder's certification for review and verify that fit-up base metal tolerances are in conformance with AWS D1.1. Inspect pre- heat, post-heat, and surface preparation between passes for the welds listed below.
2 (AWS or ICC)	Request Welding Procedure Specifications (WPS) for review and verify that these specifications are followed and performed by qualified welders, both in the shop and in the field.
2 (ASW/ASNT or ICC/ASNT)	Inspect both shop and field welds and verify compliance with the approved shop drawings and Contract Documents as follows:
	Complete and partial joint penetration groove welds: Inspect and perform ultrasonic tests of 100% of welds.
	Multi-pass fillet welds, single-pass fillet welds larger than 5/16", and plug and slot welds: Visually inspect 100% of welds and perform magnetic particle tests as required by inspector if defects are observed from visual inspection.
	Single-pass fillet welds smaller than 5/16": Visually inspect 50% of welds and perform magnetic particle tests as required by inspector if defects are observed from visual inspection.
2 (AWS or ICC)	Periodically inspect connectors for size, quantity, positioning, final length, and weld quality and verify compliance with the approved shop drawings and Contract Documents.
2 (AWS or ICC)	Perform ring tests for 50% of connectors with a 3 pound hammer and perform bend test all questionable studs to 15 degrees.
2 (AWS or ICC)	Verify deck type, gage thickness, and finish for compliance with the approved shop drawings and Contract Documents.
2 (AWS or ICC)	Periodically inspect welding and side-lap fastening for size, location, and quantity and verify compliance with the approved shop drawings and Contract Documents.
1 & 2 (EIT & AWS or ICC)	Periodically inspect the erected steel framing for member sizes, member locations, and connection details such as bracing, stiffening, and proper application of joint details and verify compliance with the approved shop drawings and Contract Documents.

3

Wolfeboro	Public Safety	Building - \	Wolfeboro.	NH

oneboro Public Salety Building	- Wolleboro, NH	
10 Drajetraced Masoner	2 (ICC)	If required by the Engineer of Record or Special Inspector prior to or during construction, proof los test anchor rods and dowels per AC308 as direct by the Engineer of Record or Special Inspector.
TO. Pre-stressed Masonry	(EIT & ICC)	positioning of pre-stressed tendons and verify compliance with the approved shop drawings and Contract Documents.
	(ICC)	Continuously inspect application of pre-stressing forces and grouting of bonded pre-stressing tendons and verify compliance with the approved shop drawings and Contract Documents.
11. Weather Protection	1 & 2 (EIT & ICC)	Periodically inspect preparation, construction, and protection of masonry during cold weather (temperature below 40°F) and hot weather (temperature above 90°F) and verify compliance with the Specification for Masonry Structures ACI 530.1/ASCE 6/TMS 602, approved submittals, and Contract Documents. Verify that wall cavities are protected against precipitation.
 Evaluation of Masonry Strength 	2 (ICC) 2	For every 5,000 square feet, verify the compressist strength (f'm and f'AAC) of structural masonry assemblies per the Unit Strength Method in accordance with ASTM C140 for compliance with the Specification for Masonry Structures ACI 530.1/ASCE 6/TMS 602, approved submittals, an Contract Documents. <u>Note:</u> Verification per the Prism Test Method is no required unless specified in the Contract Documents or unless masonry does not meet the requirements for application of the Unit Strength Method.
	(ICC) 2	Verify the slump flow and VSI as delivered to the site for self-consolidating grout for compliance wi the Specification for Masonry Structures ACI 530.1/ASCE 6/TMS 602, approved submittals, ar Contract Documents.
10. Other	(ICC)	Continuously inspect any required mortar specimens, grout specimens, and/or prisms and verify compliance with the Specification for Maso Structures ACI 530.1/ASCE 6/TMS 602.
13. Uther		

2

Wolfeboro Public Safety Building – Wolfeboro, NH

Cold-Formed Steel Framing

ltem	Agent No. (Qualification)	Scope
 Material Properties 	1 (EIT)	Periodically inspect material identification marks of cold-formed steel members and fasteners and verify compliance with the approved shop drawing and Contract Documents.
Material Thickness	2 (EIT)	Periodically inspect material thickness of cold- formed steel members and verify compliance with the approved shop drawings and Contract Documents.
Member Sizes	1 (EIT)	Periodically inspect size of cold-formed steel members and verify compliance with the approve shop drawings and Contract Documents.
 Mechanical Connections 	1 (EIT)	Periodically inspect cold-formed steel framing connections including screws, bolts, powder actuated fasteners, and other fastening components and verify compliance with the approved shop drawings and Contract Document
5. Welding	(AWS or ICC)	Request welder's certification and verify that it is i conformance with AWS D1.3.
	2 (AWS or ICC)	Periodically inspect both shop and field welds and verify compliance with the approved shop drawing and Contract Documents.
 Structural Framing and Details 	1 & 2 (EIT)	Periodically inspect the installed cold-formed stee framing prior to concealment by surface finishes f member locations and connection details such as bracing, stiffening, and proper application of joint details and verify compliance with the approved shop drawings and Contract Documents.
7. Other		

	1		7
Page 9 of 16			
or Special n, proof load 8 as directed nspector. spacing, and d verify awings and			THE CARRIAGE HOUSE 6 SOUTH PARK STREET LEBANON, NH 03766 T: 603 448 3778
-stressing ssing approved ts. ruction, and ther ther ompliance			COPYRIGHT © 2022 BANWELL ARCHITECTS ALL RIGHTS RESERVED. NO REPRODUCTION WITHOUT PRIOR WRITTEN PERMISSION CONSULTANTS / DESIGN TEAM: OWNER: TOWN OF WOLFEBORO PO BOX 629 WOLFEBORO, NH 03894
ctures ACI pmittals, and avities are compressive sonry od in		F	CONSTRUCTION MANAGER: CONNESTON CONSTRUCTION, INC 132 S MAIN STREET LACONIA, NH 03246 T: (603) 524-3776
liance with as ACI omittals, and lethod is not ct ot meet the t Strenath			CIVIL: NORWAY PLAINS ASSOCIATES, INC 2 CONTINENTAL BLVD ROCHESTER, NH 03867 T: (603) 335-3948 STRUCTURAL:
ered to the pliance with es ACI prittals, and			TFMORAN, INC 48 CONSTITUTION DRIVE BEDFORD, NH 03110 T: (603) 472-4488 ARCHITECT:
tar risms and n for Masonry 2.		E	BANWELL ARCHITECTS, NH 6 SOUTH PARK STREET LEBANON, NH 03766 - T: (603) 448-3778 MEP/FP: CHARLES P. BUCKLEY, P.E.
			500 DEPOT STREET RUMNEY, NH 03266 T: (603) 786-9992
Page 12 of 16		D	VITAL INFORMATION REQUIRED FOR THE SUCCESSFUL COMPLETION OF THE WORK IS CONTAINED IN THE PROJECT MANUAL PREPARED FOR THIS PROJECT.
on marks of ers and top drawings			CR CONSTRUCTIONE
of cold- oliance with ract I steel he approved			REVISION DATE COMMENTS
ts, iraming wder h the Documents. ly that it is in		С	Image:
f welds and top drawings ormed steel e finishes for			KEY PLAN & NORTH ARROW:
ion of joint approved ts.			
		В	PROJECT: WOLFEBORO PUBLIC SAFETY BUILDING SOUTH MAIN STREET, WOLFEBORO, NH
			ISSUED: DESIGN DEVELOPMENT DRAWING TITLE: STATEMENT OF SPFCIAI
			INSPECTIONS PROJECT NO: 22-950 DATE: 5-31-2023 SHEET NUMBER:
	1	A	5005

Material Specifications

2. Laboratory Tested Fire

Resistance Design

3. Surface Preparation

Application

Thickness

Agent No. Scope (Qualification)

2

(ICC-SFSI)

(ICC-SFSI)

(ICC-SFSI)

(ICC-SFSI)

Review manufacturer's specifications and verify

compliance with the Contract Documents. Verify

for the thickness specified.

fire resistant material.

manufacturer.

(ICC-SFSI) with specifications and verify UL fire resistance

that the material can obtain the required fire rating

Review manufacturer's test data for conformance

design for each rated beam, column, or assembly.

Verify that the prepared member surfaces are in

conformance with the approved fire resistance

design the written instructions of the approved

manufacturer, prior to the application of the sprayed

Verify that the substrate is not below the minimum

specified in the written instructions of the approved

ambient temperature before and after application as

manufacturer. The area for application shall be

by the written instructions of the approved

are less than the thickness required by the

For design thicknesses 1" or greater:

For design thicknesses less than 1":

design thickness minus ¼".

design thickness minus 25%.

from 12"x12" square areas.

measurements shall be reported.

members on each floor, and as follows:

be selected as follows:

ventilated during and after application as required

Perform thickness measurements of the sprayed

wall assemblies and structural members. Verify that

no more than 10% of the thickness measurements

approved fire resistance design, but in no case less

Samples of the sprayed fire resistant materials shall

Floor, roof, and wall assemblies: not less than

sprayed area in each story or portion thereof. Cellular decks: not less than four measurements

Fluted decks: not less than four measurements

from 12"x12" square areas, including one at

valley, crest, and sides. The average of the

Thicknesses shall be determined in accordance with ASTM E605. Thickness measurements shall be performed on not less than 25% of the structural

Beams and girders: at nine locations around the beam or girder at each end of a 12" length.

four measurements for each 1,000 square feet of

than the following minimum allowable thickness:

fire resistant materials applied to floor, roof, and

- Wolfeboro, NH Wolfeboro Public Safety Building . Density Bond Strength Other

Wolfeboro Public Safety Building – Wolfeboro, NH

Prefabricated Wood Trusses

Page 16 of 16

6

5

lte	m	Agent No. (Qualification)	Scope
1.	Fabricator Certification/ Quality Control Procedure	1 (EIT)	Verify whether Fabricator participates in the Truss Plate Institute's Quality Assurance Inspection Program prior to fabrication.
	Fabricator Exempt	1 (EIT)	If so, shop inspection is not required. Request Fabricator's written procedural and quality control manuals for review. At completion of fabrication, request Fabricator's certificate of compliance stating that the work was performed in accordance with the approved construction documents.
		1 & 2 (EIT)	If not, perform shop inspection. Request Fabricator's written procedural and quality control manuals for review. Verify that the Fabricator maintains detailed fabrication and quality control procedures that provide a basis for inspection control of the workmanship and the Fabricator's ability to conform to approved construction documents and reference standards. Review the procedures for completeness and adequacy relative to the code requirements for the Fabricator's scope of work. At completion of fabrication, request Fabricator's certificate of compliance stating that the work was performed in accordance with the approved construction documents.
2.	Material Grading	1 (EIT)	Periodically inspect grade stamps of wood members and verify compliance with the approved shop drawings and Contract Documents.
3.	Connections	1 (EIT)	Periodically inspect wood framing connections including hangers, straps, holdowns, nailing, screwing, bolting, and other fastening components and verify compliance with the approved shop drawings and Contract Documents.
4.	Fabrication	1 & 2 (EIT)	Periodically inspect prefabricated wood trusses for member sizes, member locations, connection plates (including size and gage thickness), and nailing (including quanitity, diameter, and length of nails) and verify compliance with the approved shop drawings and Contract Documents.
5.	Structural Framing and Details	1 (EIT)	Periodically inspect the installed framing prior to concealment by surface finishes for truss locations, connection details, plumbness, damage, and field modifications such as notches and drilled holes and verify compliance with the approved shop drawings and Contract Documents. Verify all bearing points.
6.	Truss Bracing	1 (EIT)	Periodically inspect the installed framing prior to concealment by surface finishes for permanent individual truss member bracing (including fastening and details) and verify compliance with the approved shop drawings and Contract Documents.
7.	Other		

17

8

g -	Wolfeboro, NH	Page 14 of 16
		Joists and trusses: at seven locations around the joists or truss at each end of a 12" length.
		Wide-flanged columns: at 12 locations around the column at each end of a 12" length.
		Hollow structural section and pipe columns: at not less than four locations around the column at each end of a 12" length.
	2 (ICC-SFSI)	Perform density tests of the sprayed fire resistant materials applied to floor, roof, and wall assemblies and structural members. Verify that the density is not less than the density required by the approved fire resistance design.
		Samples of the sprayed fire resistant materials shall be selected as follows:
		Floor, roof, and wall assemblies: not less than one sample for every 2,500 square feet of sprayed area in each story or portion thereof.
		Beams, girders, trusses, and columns: not less than one sample for each type of structural member for each 2,500 square feet of sprayed area in each story or portion thereof.
		Densities shall be determined in accordance with ASTM E605.
	2 (ICC-SFSI)	Perform cohesive/adhesive bond strength tests of the sprayed fire resistant materials applied to floor, roof, and wall assemblies and structural members. Verify that the bond strength is not less than 150 psf.
		Samples of the sprayed fire resistant materials shall be selected as follows:
		Floor, roof, and wall assemblies: not less than one sample for every 2,500 square feet of sprayed area in each story or portion thereof.
		Beams, girders, trusses, and columns: not less than one sample for each type of structural member for each 2,500 square feet of sprayed area in each story or portion thereof.
		Bond strengths shall be determined in accordance with the field testing specified in ASTM E736. Where sprayed fire resistant material is applied to a primed, painted, or encapsulant surface for which acceptable bond-strength performance between these coatings are the sprayed fire resistant material has not been determined, verify that a bonding agent approved by the manufacturer has been applied where bond strengths are found to be less than the required values.

Wolfeboro Public Safety Building - Wolfeboro, NH

Wood Construction

lte	m	Agent No. (Qualification)	Scope
1.	Material Grading	1 (EIT)	Periodically inspect grade stamps of wood members and verify compliance with the Contract Documents.
2.	Connections	1 (EIT)	Periodically inspect wood framing connections including hangers, straps, holdowns, nailing, screwing, bolting, and other fastening components and verify compliance with the Contract Documents.
3.	Structural Framing and Details	1 (EIT)	Periodically inspect the installed framing prior to concealment by surface finishes for member sizes, member locations, connection details, and field modifications such as notches and drilled holes and verify compliance with the Contract Documents. Verify all bearing points and bracing requirements.
4.	Diaphragms and Shearwalls	1 (EIT)	Continuously inspect wood structural panel sheathing size, configuration, blocking, and fastening (including spacing, diameter, and length of nails or staples) and verify compliance with the Contract Documents. Verify panel grade and thickness.
		(EIT)	Continuously inspect wood framed shearwall end posts, holdowns, straps, and other components and verify compliance with the Contract Documents.
		1 (EIT)	Continuously inspect field gluing operations of elements of the lateral force resisting system and verify compliance with the manufacturer's recommendations.
5.	Other		

Page 15 of 16

3

4

2

THE CARRIAGE HOUSE 6 SOUTH PARK STREET LEBANON, NH 03766 T: 603 448 3778 COPYRIGHT © 2022 BANWELL ARCHITECTS ALL RIGHTS RESERVED. NO REPRODUCTION WITHOUT PRIOR WRITTEN PERMISSION CONSULTANTS / DESIGN TEAM: OWNER: TOWN OF WOLFEBORO PO BOX 629 WOLFEBORO, NH 03894 CONSTRUCTION MANAGER: CONNESTON CONSTRUCTION, INC 132 S MAIN STREET LACONIA, NH 03246 T: (603) 524-3776 CIVIL: NORWAY PLAINS ASSOCIATES, INC 2 CONTINENTAL BLVD ROCHESTER, NH 03867 T: (603) 335-3948 STRUCTURAL: TFMORAN, INC **48 CONSTITUTION DRIVE** BEDFORD, NH 03110 T: (603) 472-4488 ARCHITECT: BANWELL ARCHITECTS, NH 6 SOUTH PARK STREET E LEBANON, NH 03766 — T: (603) 448-3778 MEP/FP: CHARLES P. BUCKLEY, P.E. 500 DEPOT STREET RUMNEY, NH 03266 T: (603) 786-9992 VITAL INFORMATION REQUIRED FOR THE SUCCESSFUL COMPLETION OF THE WORK IS CONTAINED IN THE PROJECT MANUAL PREPARED FOR THIS PROJECT 9 40. REVISION DATE COMMENTS KEY PLAN & NORTH ARROW: PROJECT: B WOLFEBORO PUBLIC SAFETY BUILDING SOUTH MAIN STREET, WOLFEBORO, NH ISSUED: DESIGN DEVELOPMENT DRAWING TITLE: STATEMENT OF SPECIAL INSPECTIONS PROJECT NO: 22-950 DATE: 5-31-2023 SHEET NUMBER: **S006** | 1



023 1:39:54 PM C:\Users\MMullen\Documents\95676.20-Public_Safety_Building-Wolfeboro,NH-R23



TFMORAN, INC **48 CONSTITUTION DRIVE** BEDFORD, NH 03110 T: (603) 472-4488 BANWELL ARCHITECTS, NH 6 SOUTH PARK STREET LEBANON, NH 03766 T: (603) 448-3778 CHARLES P. BUCKLEY, P.E. 500 DEPOT STREET RUMNEY, NH 03266 T: (603) 786-9992 VITAL INFORMATION REQUIRED FOR THE SUCCESSFUL COMPLETION OF THE WORK IS CONTAINED IN THE PROJECT MANUAL PREPARED FOR THIS PROJECT REVISION DATE COMMENTS KEY PLAN & NORTH ARROW: **AREA B** AREA C B WOLFEBORO PUBLIC SAFETY SOUTH MAIN STREET, WOLFEBORO, NH DESIGN DEVELOPMENT



OWNER: TOWN OF WOLFEBORO PO BOX 629 WOLFEBORO, NH 03894 **CONSTRUCTION MANAGER:** CONNESTON CONSTRUCTION, INC 132 S MAIN STREET LACONIA, NH 03246 T: (603) 524-3776 CIVIL: NORWAY PLAINS ASSOCIATES, INC 2 CONTINENTAL BLVD ROCHESTER, NH 03867 T: (603) 335-3948 STRUCTURAL: TFMORAN, INC **48 CONSTITUTION DRIVE** BEDFORD, NH 03110 T: (603) 472-4488 ARCHITECT: BANWELL ARCHITECTS, NH 6 SOUTH PARK STREET LEBANON. NH 03766 T: (603) 448-3778 MEP/FP: CHARLES P. BUCKLEY, P.E. 500 DEPOT STREET RUMNEY, NH 03266 T: (603) 786-9992 VITAL INFORMATION REQUIRED FOR THE SUCCESSFUL COMPLETION OF THE WORK IS CONTAINED IN THE PROJECT MANUAL PREPARED FOR THIS PROJEC REVISION DATE COMMENTS KEY PLAN & NORTH ARROW: **AREA B** AREA C PROJECT: B WOLFEBORO PUBLIC SAFETY BUILDING SOUTH MAIN STREET, WOLFEBORO, NH ISSUED: DESIGN DEVELOPMENT DRAWING TITLE: ROOF FRAMING PLAN

THE CARRIAGE HOUSE 6 SOUTH PARK STREET LEBANON, NH 03766 T: 603 448 3778

S103















ST	EEL	<u> CO</u>	LUN	IN S	CHE	EDU	LE		-								
																	EXIST ROOF BEARING
																	120'-0" SECOND FLOOR
						-W10x49-	-W10x68				W10x68					W10x88	110'-11 1/2"
	B-8	B-9	B-10	B-10.3	B-11	B.6-1	B.6-4	B.8-10	C.2-5	C.2-7	C.2-8	C.2-9	C.2-11	C.4-10	C.8-11	C.9-9	

| 1

			S 1	EEL	- CO		IN S	CHE	EDUI	LE		
	EXIST ROOF BEARING											EXIST ROOF BEARING
	120'-0"											120'-0"
	SECOND FLOOR											SECOND FLOOR
	110'-11 1/2"	S6x6x3/8—	SS6x6x3/8	-HSS6x6x3/8	SS6x6x3/8	-HSS6x6x3/8	SS6x6x3/8	-HSS6x6x3/8	SS6x6x3/8	HSS6x6x3/8	-HSS6x6x3/8	110'-11 1/2"
	FIRST FLOOR	Я Н Н	<u>T</u>									FIRST FLOOR
	S											
		A.1(10 1/8")-10.3(-9'-10 3/8")	A.7(15'-11 3/8")-4(8'-4 15/16")	B(2'-0 1/16")-7(-1'-3 5/16")	B(23'-0 1/16")-7(-1'-3 5/16")	B(2'-0 1/16")-8(-6 15/16")	B(23'-0 1/16")-8(-6 15/16")	B(2'-0 1/16")-9(5 1/16")	B(23'-0 1/16")-9(5 1/16")	B(2'-0 1/16")-10(-9 15/16")	B(2'-0 1/16")-X1	
Gr	Base Plate Type											
20	Base Plate Size											
MPY /												

	THE CARRIAGE HOUSE 6 SOUTH PARK STREET LEBANON, NH 03766 T: 603 448 3778
С	OPYRIGHT © 2022 BANWELL ARCHITECTS ALL RIGHTS RESERVED NO REPRODUCTION WITHOUT PRIOR WRITTEN PERMISSION CONSULTANTS / DESIGN TEAM: OWNER: TOWN OF WOLFEBORO PO BOX 629 WOLFEBORO, NH 03894
F	CONSTRUCTION MANAGER: CONNESTON CONSTRUCTION, INC 132 S MAIN STREET LACONIA, NH 03246 T: (603) 524-3776
	CIVIL: NORWAY PLAINS ASSOCIATES, INC 2 CONTINENTAL BLVD ROCHESTER, NH 03867 T: (603) 335-3948
	STRUCTURAL: TFMORAN, INC 48 CONSTITUTION DRIVE BEDFORD, NH 03110 T: (603) 472-4488
E	ARCHITECT: BANWELL ARCHITECTS, NH 6 SOUTH PARK STREET LEBANON, NH 03766 T: (603) 448-3778
	MEP/FP: CHARLES P. BUCKLEY, P.E. 500 DEPOT STREET RUMNEY, NH 03266 T: (603) 786-9992
D	VITAL INFORMATION REQUIRED FOR THE SUCCESSFUL COMPLETION OF THE WORK IS CONTAINED IN THE PROJECT MANUAL PREPARED FOR THIS PROJECT.
	PROFECTION PROFECTION PROFECTION PROFECTION PROFECTION PROFECTION PROFECTION
	REVISION DATE COMMENTS
С	
С	KEY PLAN & NORTH ARROW:
С	KEY PLAN & NORTH ARROW:
В	PROJECT: WOLFEBORO PUBLIC SAFETY BUILDING SOUTH MAIN STREET, WOLFEBORO, NH
В	PROJECT: WOLFEBORO PUBLIC SAFETY BUILDING SOUTH MAIN STREET, WOLFEBORO, NH ISSUED: DESIGN DEVELOPMENT
В	PROJECT: WOLFEBORO PUBLIC SAFETY BUILDING SOUTH MAIN STREET, WOLFEBORO, NH ISSUED: DESIGN DEVELOPMENT DRAWING TITLE: COLUMN SCHEDULE
В	PROJECT: WOLFEBORO PUBLIC SAFETY BUILDING SOUTH MAIN STREET, WOLFEBORO, NH ISSUED: DESIGN DEVELOPMENT DRAWING TITLE: COLUMN SCHEDULE PROJECT NO: 22-950 DATE: 5-31-2023 SHEET NUMBER:

[
HOSE TOWER								
135'-0"								
HIGH ROOF								
125'-2 3/4" EXIST ROOF BEARING								
120'-0" SECOND FLOOR	0x68)x68)x68)x68	0x68-	0x68-		W10x68
110'-11 1/2"			1	1	N			
100'-0"								
Column Locations	C-1	C-2	C-3	C-4	C.6-1	C.6-4	C.8-2	C.8(-1'-0")-2
Base Plate Type								
Base Plate Size								

17

	ST	EEL			/N S	CHE	EDU	LE
HOSE TOWER								
135'-0"								
HIGH ROOF								
125'-2 3/4" EXIST ROOF BEARING								
120'-0"	x58	x58	x58	(39	100	100	100	(30
110'-11 1/2"	12	12	12				6 <u></u>	0
FIRST FLOOR								
Column Locations	E.3-5a	E.6-1a	E.6-5a	F-1a	F-2a	F-3a	F-4a	F-5a
Base Plate Type								
Base Plate Size								

6



8

| 7

8







SECOND FLOOR 110'-11 1/2"

FIRST FLOOR 100'-0"















BASE PLATE DETAILS

6





4

3

7/8" 1" 1 1/4" 1 1/2" 1 3/4" 2" NOTES: I. STANDARD WASHERS MAY BE PROVIDED AT BASE PLATES WHERE HOLES ARE STANDARD WASHERS PER ASTM F-844. PROVIDE HOLE IN WASHER PLATE 1/16" LARGER THAN ANCHOR DIAMETER. 4. WASHERS MAY BE CIRCULAR OR SQUARE. 2 TYPICAL PLATE WASHER DETAIL AND SCHEDULE

STANDARD +5/16"

STANDARD +1/2"

STANDARD +1/2"

STANDARD +1/2"

STANDARD +1/2"

STANDARD +1"

1 9/16"

1 13/16'

2 1/16"

2 5/16"

2 3/4"

3 1/4"

NOT OVERSIZED AND WHERE WASHERS ARE NOT SPECIFIED AS WELDED.

2



1

2 1/2"x5/16"

3"x3/8"

3"x1/2"

3 1/2"x1/2"

4"x5/8"

5"x3/4"

1/4"

5/16"

5/16"

5/16"

5/16"

5/16"



CONCRETE FOOTING SCHEDULE						
MARK	SIZE	BOT. REINF.	TOP REINF.			
F-4.0	4'-0"x4'-0"x1'-0"	(5)-#5 BARS EA. WAY				
F-5.0	5'-0"x 5'-0"x 1'-0"	(6)-#5 BARS EA. WAY	-			
F-5.0A	5'-0"x 5'-0"x 1'-0"	(6)-#5 BARS EA. WAY	(6)-#5 BARS EA. WAY			
F-6.0	6'-0"x6'-0"x1'-0"	(7)-#5 BARS EA. WAY	-			
F-6.0A	6'-0"x6'-0"x1'-0"	(7)-#5 BARS EA. WAY	(7)-#5 BARS EA. WAY			
F-7.0	7'-0"x7'-0"x1'-2"	(8)-#5 BARS EA. WAY	-			
F-7.0A	7'-0"x7'-0"x1'-2"	(8)-#5 BARS EA. WAY	(8)-#5 BARS EA. WAY			
F-8.0	8'-0"x8'-0"x1'-2"	(8)-#6 BARS EA. WAY	(8)-#5 BARS EA. WAY			
F-9.0	9'-0"x9'-0"x1'-6"	(9)-#6 BARS EA. WAY	(9)-#6 BARS EA. WAY			
F-11.0	11'-0"x11'-0"x1'-8"	(11)-#6 BARS EA. WAY	(11)-#6 BARS EA. WAY			
F-11.0A	11'-0"x7'-0"x1'-6"	(11)-#6 BARS EA. WAY	(11)-#5 BARS EA. WAY			
F-12.0A	12'-0"x9'-6"x1'-6"	(11)-#6 BARS (LONG), (9)-#6 BARS (SHORT)	(11)-#5 BARS (LONG), (9)-#5 BARS (SHORT)			

MARK	SIZE	BOT. REINF.	TOP REINF.			
STRIP FTG - GRID B -1	4'-0"x18'-4"x1'-6"	(4)-#6 BARS (LONG), (37)-#5 BARS (SHORT)	(4)-#6 BARS (LONG), (13)#4 BARS (SHORT)			
STRIP FTG - GRID C.8	4'-0"x24'-4"x1'-6"	(6)-#6 BARS (LONG), (50)-#5 BARS (SHORT)	(6)-#5 BARS (LONG), (18)-#4 BARS (SHORT)			
STRIP FTG - GRID D.8	8'-6"x22'-4"x1'-6"	(8)-#6 BARS (LONG), (50)-#6 BARS (SHORT)	(8)-#6 BARS (LONG), (16)-#5 BARS (SHORT)			























| 7

8

SECOND FLOOR 110'-11 1/2" T/O WALL CMU SUPPORT, SEE TYP DETAILS 3 <u>SECTION</u> 3/4" = 1'-0"

6

#5 CONT NOSING BAR -

SEE PLAN

#4 HOOKED BARS AT 12"o.c.

CONC SLAB ON MTL DECK,
















3 1:40:01 PM C:\Users\MMullen\Documents\95676.20-Public_Safety_Building-Wolfeborc

- 5/3

CONNECTION	MINIMUM FASTENING	MINIMUM FASTENING	LOCATION		
	(3)- 8d COMMONS	(3)- 3"x0 131"			
	(3)- 8d COMMONS	(3)- 3 x0.131 (2)- 3"x0.131"			
	16d COMMONS AT 16"o c	3"v0 131" AT 12"o c			
	(2)- 16d COMMONS AT 16"o c	(4)- 3"x0 131" AT 12"o.c.	SHEAR WALL PANEL		
SHEAR WALL PANEL		(+)- 0 X0.101 AT 12 0.0.			
TOP PLATE TO STUD	(2)- 16d COMMONS	(3)- 3"x0.131"	END NAIL		
STUD TO SOLE PLATE	(4)- 8d COMMONS	(4)- 3"x0.131"	TOENAIL		
STUD TO SOLE PLATE	(2)- 16d COMMONS	(3)- 3"x0.131"	END NAIL		
DOUBLE STUDS (NOT AT BRACED WALLS)	16d COMMONS AT 24"o.c.	3"x0.131" AT 16"o.c.	FACE NAIL		
DOUBLE STUDS (AT BRACED WALLS)	16d COMMONS AT 16"o.c.	3"x0.131" AT 12"o.c.	FACE NAIL		
DOUBLE TOP PLATES	16d COMMONS AT 16"o.c.	3"x0.131" AT 12"o.c.	TYPICAL FACE NAIL		
DOUBLE TOP PLATES	(8)- 16d COMMONS	(12)- 3"x0.131"	LAP SPLICE		
BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	(3)- 8d COMMONS	(3)- 3"x0.131"	TOENAIL		
RIM JOIST TO TOP PLATE	8d COMMONS AT 6"o.c.	3"x0.131" AT 6"o.c.	TOENAIL		
TOP PLATES, LAPS AND INTERSECTIONS	(2)- 16d COMMONS	(3)- 3"x0.131"	FACE NAIL		
CONTINUOUS HEADER, TWO PIECES	16d COMMONS AT 16"o.c.	3"x0.131" AT 12"o.c.	FACE NAIL		
CEILING JOIST TO PLATE	(3)- 8d COMMONS	(3)- 3"x0.131"	TOENAIL		
CONTINUOUS HEADER TO STUD	(4)- 8d COMMONS	-	TOENAIL		
CEILING JOISTS, LAPS OVER PARTITIONS	(3)- 16d COMMONS	(4)- 3"x0.131"	FACE NAIL		
CEILING JOISTS TO PARALLEL RAFTERS	(3)- 16d COMMONS	SEE IBC SECTION 2308.7.3.1	FACE NAIL		
RAFTER TO PLATE	(3)- 16d COMMONS	(4)- 3"x0.131"	TOENAIL		
1" DIAGONAL BRACE TO EACH STUD AND PLATE	(2)- 8d COMMONS	(2)- 3"x0.131"	FACE NAIL		
BUILT-UP CORNER STUDS	16d COMMONS AT 24"o.c.	-	FACE NAIL		
BUILT-UP GIRDER AND BEAMS	20d COMMONS AT 32"o.c.	3"x0.131" AT 24"o.c.	FACE NAIL AT TOP AN BOTTOM, STAGGERE ON OPPOSITE SIDES		
BUILT-UP GIRDER AND BEAMS	(2)- 20d COMMONS	(3)- 3"x0.131"	FACE NAIL AT ENDS AND SPLICES		
2" PLANKS	16d COMMONS	-	FACE NAIL EACH EN		
COLLAR TIE TO RAFTER	(3)- 10d COMMONS	(4)- 3"x0.131"	FACE NAIL		
JACK RAFTER TO HIP	(3)- 10d COMMONS	(4)- 3"x0.131"	TOENAIL		
JACK RAFTER TO HIP	(2)- 16d COMMONS	(3)- 3"x0.131"	FACE NAIL		
ROOF RAFTER TO 2-BY RIDGE BEAM	(3)- 10d COMMONS	(4)- 3"x0.131"	TOENAIL		
ROOF RAFTER TO 2-BY RIDGE BEAM	(2)- 16d COMMONS	(3)- 3"x0.131"	FACE NAIL		
JOIST TO BAND JOIST	(3)- 16d COMMONS	(4)- 3"x0.131"	FACE NAIL		
LEDGER STRIP	(3)- 16d COMMONS	(4)- 3"x0.131"	FACE NAIL AT EACH JOIST/STUD		
WOOD STRUCTURAL PANELS TO FRAMING	8d COMMONS AT 6"o.c.	-	EDGE NAILING		
WOOD STRUCTURAL PANELS TO FRAMING	8d COMMONS AT 12"o.c.	-	FIELD NAILING		



MASONRY LINTEL SCHEDULE (ML)										
MAX M.O.	4" WALL / VENEER	8" WALL								
3'-0"	(1) L3 1/2x3 1/2x5/16	(2) L3 1/2x3 1/2x5/16								
4'-0"	(1) L4x3 1/2x5/16	(2) L4x3 1/2x5/16								
5'-0"	(1) L5x3 1/2x5/16	(2) L5x3 1/2x5/16								
6'-0"	(1) L6x3 1/2x5/16	(2) L6x3 1/2x5/16								
7'-0"	(1) L6x3 1/2x3/8	(2) L6x3 1/2x3/8								
8'-0"	(1) L6x3 1/2x3/8	(2) L6x3 1/2x3/8								



1. PROVIDE LINTELS. WHETHER INDICATED OR NOT ON STRUCTURAL OR ARCHITECTURAL DRAWINGS. OVER ALL MASONRY

- 2. LINTELS ARE FOR NON LOAD BEARING AND UNIFORMLY LOADED BEARING WALLS ONLY, CONSULT WITH ENGINEER FOR REVIEW AND REQ'D LINTEL SIZES AT ALL OTHER LOCATIONS. 3. SEE ARCH. FOR REQ'D DIM'S (ALL OPENINGS).
- 4. FOR WALLS GREATER THAN 12" IN WIDTH, PROVIDE (1) ADDITIONAL ANGLE FOR EACH 4" OF MASONRY.
- 6. PROVIDE 6" MIN. BEARING AT EACH END BUT NOT LESS THAN 1" PER FOOT OF SPAN.
- 7. CORE FILL MASONRY (FULL HT.) BELOW BEARING WITH 2000 PSI GROUT (SEE TYPICAL DET'S FOR REQ'D REINF.). 8. CORE FILL (2) COURSES OF MASONRY BELOW BEARING WITH MORTAR AT EXISTING WALLS.
- 9. INSTALL LINTELS WITH LONG LEG VERTICAL (UNLESS NOTED). 10. LINTELS SUPPORTING EXTERIOR MASONRY OR LOCATED IN EXTERIOR WALLS SHALL BE HOT DIPPED GALVANIZED.
- 11. WHERE MINIMUM BEARING CANNOT BE PROVIDED, ATTACH SECURELY TO ADJACENT STRUCTURAL MEMBERS OR PROVIDE SEPARATE SUPPORTS.
- 12. PROVIDE CONT. CLOSURE ANGLE OR P.T. BLOCKING AS REQ'D AT ALL VENEER CAVITIES (COORD. w/ ARCH.). 13. ALL LINTELS TO BE INSTALLED AT M.O. HEAD (UNLESS NOTED) COORD. w/ ARCH. 14. G.C. SHALL PROVIDE ALL MECH'L DUCT M.O. LOCATIONS AND SIZES TO ENGINEER FOR REVIEW AND REQ'D LINTEL SIZES. 15. PROVIDE SLIP SEAT AT ALL LINTEL ENDS OVER CONTROL JOINTS.
- MASONRY LINTEL SCHEDULES







OPENINGS (M.O.) IN MASONRY WALLS, AS REQUIRED BY ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS.

5. IF LINTEL IS SPECIFIED ON PLAN WITH COVER PLATE, PLATE SHALL HAVE A WIDTH 1" LESS THAN THE WALL THICKNESS.

MINIMUM CONCRETE MASONRY WALL **REINFORCING SCHEDULE**

WALL LOCATION	WALL THICKNESS	VERT REINF	HORIZ. REINFORCING (TYP.)	BOND BEAM REINF
ALL EXTERIOR LOAD BEARING & SHEAR WALLS U.N.O.	8"	#5 @24"	9 GA. LADDER- TYPE AT 16" O.C.	2-#5 BARS
ALL OTHER INT. LOAD BEARING & SHEAR WALLS U.N.O.	ALL SIZES	#5 @24"	9 GA. LADDER- TYPE AT 16" O.C.	SEE ABOVE
ALL INT. NON- STRUCTURAL CMU WALLS	ALL SIZES	#4 @48"	9 GA. LADDER- TYPE AT 16" O.C.	SEE ABOVE
NOTES:				

PROVIDE BOND BEAMS AT TOP AND BOTTOM OF WALL OPENINGS, AT FLOOR AND ROOF LEVELS AND AT 10'-0" O.C. MAX WHERE NO FLOOR EXISTS REFER TO PLANS AND SECTIONS FOR REINFORCING REQUIREMENTS MORE

STRINGENT THAN IN THIS SCHEDULE. ALL INT. NON-STRUCTURAL CMU WALLS SHALL BE LT. WT. CMU.

PROVIDE JOINT REINF. w/ PRE-FORMED TEES AND CORNERS AT ALL WALLS.

MASONRY REINFORCING SCHEDULE



1



4

3

MASONRY REINFORCING LAP REQUIREMENTS

DEVELOPMENT LENGTHS FOR REINFORCING BARS IN MASONRY

(2015 IBC ALLOWABLE STRESS DESIGN& TMS 402-13)

MINIMUM LAP LENGTH MINIMUM LAP LENGTH WITH BAR WITH BAR LOCATED LOCATED AT FACE OR IN BOND IN CENTER OF CMU CORE BEAMS w/ (2) BARS CMU CLR. LAP LENGTH LAP LENGTH WALL COVER SIZE SIZE 1 1/2" 2" CLR. 10-in. 12-in. 6-in. 8-in. 16" #3 16" 16" 16" 16" #3 19" #4 21" 21" 21" 21" 34" 26" #4 #5 32" 26" 26" 26" 53" 40" #5 #6 61" 40" 40" MS MS 43" #6 #7 NP 60" 46" 46" #7 MS MS NP MS 61" MS MS #8 MS #8 NP MS MS #9 NP #9 MS MS #10 NP NP NP MS #10 MS MS #11 NP NP MS MS MS NP #11

BASED ON Fy = 60,000 psi (GRADE 60 STEEL) and F'm = 1,500 psi. CMU MUST BE TWO-CORE, SQUARE CORE UNIT AND MAX. CELL TAPER OF 1/4". ALL MORTAR FINS MUST BE REMOVED FROM CELLS (CORES) TO BE GROUTED.

"NP" INDICATES NOT PERMITTED - BAR IS TOO LARGE FOR THIS WALL. "MS" INDICATES MECHANICAL SPLICE - SEE NCMA TEK NOTE 12-6 FOR MORE INFORMATION



CONSTRUCTION MANAGER: CONNESTON CONSTRUCTION, INC 132 S MAIN STREET LACONIA, NH 03246 T: (603) 524-3776

CIVIL: NORWAY PLAINS ASSOCIATES, INC 2 CONTINENTAL BLVD ROCHESTER, NH 03867 T: (603) 335-3948

STRUCTURAL: TFMORAN, INC 48 CONSTITUTION DRIVE BEDFORD, NH 03110 T: (603) 472-4488

ARCHITECT: BANWELL ARCHITECTS, NH 6 SOUTH PARK STREET LEBANON, NH 03766 T: (603) 448-3778

MEP/FP: CHARLES P. BUCKLEY, P.E. 500 DEPOT STREET

RUMNEY, NH 03266 T: (603) 786-9992

> VITAL INFORMATION REQUIRED FOR THE SUCCESSFUL COMPLETION OF THE WORK IS CONTAINED IN THE PROJECT MANUAL PREPARED FOR THIS PROJECT

REVISION DATE COMMENTS

KEY PLAN & NORTH ARROW:

PROJECT:

ISSUED:

BUILDING

DRAWING TITLE:

SHEET NUMBER:

B WOLFEBORO PUBLIC SAFETY

SOUTH MAIN STREET WOLFEBORO, NH

DESIGN DEVELOPMENT

TYPICAL MASONRY DETAILS

PROJECT NO: 22-950 DATE: 5-31-2023

S601







2

4

LEVEL 1 - PHASE 2

- DEMOLISH EXISTING APPARATUS BAY (WEST WALL TO REMAIN)
- CONSTRUCTION OF NEW 2 STORY "CONNECTOR BUILDING", INCLUDING FIRE / POLICE / PUBLIC PROGRAMMING AS SHOWN, STAIRWELL 1, AND SALLY-PORT SPRINKLER WORK AS REQUIRED FOR PHASE
- NOTE: CONNECTOR BUILDING SPARATED FROM EXISTING STRUCTURE VIA 2" EXPANSION JOINTS AT ALL WALL / FLOOR / ROOF INTERSECTIONS

4



1



ARCHITEC



GENERAL DEMO PLAN NOTES: THE DEMOLITION PLANS AND/OR ELEVATIONS ILLUSTRATE THE CONCEPT OF ARCHITECTURAL DEMOLITION. THEY ARE NOT INTENDED TO BE A COMPLETE REPRESENTATION OF ALL DEMOLITION WORK REQUIRED. ALL OF THE CONTRACT DOCUMENTS ARE TO BE CONSIDERED WHEN DETERMINING THE SCOPE OF DEMOTION FOR THE PROJECT. IT IS THE INTENT OF THE CONTRACT DOCUMENTS TO REQUIRE DEMOLITION OF ALL THE BUILDING ELEMENTS AS NECESSARY FOR THE INSTALLATION OF WORK REQUIRED BY THE SCOPE OF THIS PROJECT. DASHED LINES GENERALLY REPRESENT OWNER: ITEMS TO BE REMOVED. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF PO BOX 629 EXACT EXTENT AND DETAIL OF REQUIRED DEMOTION. REMOVE PARTITIONS TO STRUCTURE ABOVE, UNLESS OTHERWISE INDICATED REMOVE DOORS AND ASSOCIATED FRAMES, HARDWARE, THRESHOLDS, SIDELIGHTS, AND TRANSOMS WHERE INDICATED, UNLESS OTHERWISE NOTED. REMOVE ALL CASEWORK, FIXTURES, OR EQUIPMENTS ON WALLS TO BE REMOVED OR FURRED. ______REMOVE CONCRETE SLABS AS REQUIRED _ CIVIL: -FOR INSTALLATION OF NEW MECHANICAL, -ELECTRICAL, AND PLUMBING SERVICES. SEE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. SEE SECTION 02 41 00 FOR ADDITIONAL DEMOLITION REQUIREMENTS. STRUCTURAL: DEMO PLAN KEYNOTES: CONCRETE C1 REMOVE PORTIONS OF SLAB AND FILLS FOR NEW FOOTINGS OR UTILITIES. C2 REMOVE CONCRETE STAIRS. C3 REMOVE CONCRETE SLAB. ARCHITECT: C4 REMOVE CONCRETE FOOTINGS AND FOUNDATION WALLS. C5 REMOVE CONCRETE SIDEWALK. C6 REMOVE PORTION OF CONCRETE WALL FOR NEW OPNG. MEP/FP: <u>MASONRY</u> M1 REMOVE MASONRY WALL. M2 REMOVE MASONRY WALL AS REQ. FOR NEW WORK. M3 REMOVE BRICK MASONRY FOR REPAIR. **STRUCTURE** S1 REMOVE CEILING, ROOF BEAMS, JOISTS, DECKING, ROOF INSULATION, ROOFING COMPLETE. S3 REMOVE WOOD BEAMS, DECKING, ROOF INSULATION, ROOFING COMPLETE. S4 REMOVE STAIRS, LANDINGS RAILINGS COMPLETE. S5 REMOVE CANOPY FOOTINGS, FINISHES, STRUCTURE, ROOFING COMPLETE. S6 REMOVE EXTERIOR SOFFIT FINISH COMPLETE. S7 REMOVE PORTIONS OF ROOFING AND DECK AS INDICATED IN DETAILS. S8 REMOVE ROOF INSULATION AND ROOF DECK. S9 REMOVE EXTERIOR METAL PANELS. S10 REMOVE STRUCTURE COMPLETE THIS AREA; INCLUDING FOUNDATION, SLABS, STRUCTURE, ROOF AND WALLS. S11 REMOVE MEZZANINE FLOOR AND WALLS COMPLETE. S12 REMOVE RAILINGS. PARTITIONS P1 REMOVE STUD AND GYPSUM BOARD PARTITION. P2 REMOVE GYPSUM BOARD SOFFIT COMPLETE. P3 REMOVE PORTION OF PARTITION FOR NEW OPENING. DOORS AND WINDOWS DW1 REMOVE EXISTING WINDOW(S) REVISION COMPLETE. DW2 REMOVE DOOR AND HARDWARE ONLY (EXISTING FRAME TO REMAIN). DW3 REMOVE ALUMINUM ENTRANCE UNIT COMPLETE. DW4 REMOVE EX. DOOR AND FRAME FOR RELOCATION. DW5 REMOVE OVERHEAD DOOR COMPLETE. DW6 REMOVE ROLL-UP DOOR COMPLETE. DW7 REMOVE LOUVERS COMPLETE. DW8 REMOVE DOOR AND FRAME. DW9 REMOVE BORROWED LITE. FLOORING AND FINISH F1 REMOVE VCT / VINYL SHEET FLOORING. F2 REMOVE CARPETING, GLUE AND BASE. F3 REMOVE CERAMIC FLOORING COMPLETE. F4 REMOVE BASE. F5 REMOVE WOOD FLOOR SYSTEM COMPLETE F6 REMOVE CERAMIC WALL TILE COMPLETE. F7 REMOVE WALL PANELS COMPLETE. F8 REMOVE WOOD WALL PANELS COMPLETE. **CEILINGS** CL1 REMOVE ACOUSTIC CEILING SYSTEM COMPLETE. CL2 REMOVE DRYWALL CEILING SYSTEM COMPLETE. CL3 REMOVE PORTIONS OF DRYWALL CEILING AS REQUIRED FOR WORK ABOVE CEILING. CASEWORK AND MILLWORK PROJECT: CM1 REMOVE CABINETS, COUNTERS AND PLUMBING FIXTURES. SEE MECHANICAL, ELECTRICAL AND PLUMBING BUILDING DRAWINGS. CM2 REMOVE LAVATORY COUNTER AND SUPPORTS. CM3 REMOVE BOOKCASES. CM4 REMOVE COUNTERTOP. ISSUED: DRAWING SHEET NUMBER:



4	ABBRE	VIATIONS LIST	THE ABB ARC	FOLLOWING REVIATIONS L HITECT IF CLA	TABLE OF ABBREVIATIONS IS FOR THE C JSED IN THE CONSTRUCTION DOCUMEN RIFICATIONS OR INTERPRETATION OF TH	ONVEN NTS. TI HESE C	NIENCE OF TH HE CONTRACT DR ANY ABBRE	E CONTRACTOR AND MAY NOT INCLUDE OR SHALL PROPTLY CONTACT THE VIATIONS USED IN THE CONSTRUCTION
A			F	FA		P	PERIM ри	PERIMETER
	A/C UNIT A/E	AIR CONDITIONING UNIT ARCHITECT/ENGINEER		FAAP FAS BD	FIRE ALARM ANNUNCIATOR PANEL FASCIA BOARD		PH PIL	PHASE PILASTER
	ABV	ANCHOR BOLT ABOVE		FCO	FLOOR CLEANOUT FLOOR DRAIN		PL PLAM	PROPERTY LINE PLASTIC LAMINATE
	ACC ACS DR	ACCESSIBLE ACCESS DOOR		FDTN FE	FOUNDATION FIRE EXTINGUISHER		PLAS PLBG	PLASTER PLUMBING
	ACS PNL ACT	ACCESS PANEL ACOUSTICAL CEILING TILE		FEC FF	FIRE EXTINGUISHER CABINET FINISH FACE		PLG PLYWD	PILING PLYWOOD
	ADA ADMIN	AMERICANS WITH DISABILITIES ACT ADMINISTRATION		FF EL FGL	FINISH FLOOR ELEVATION FIBERGLASS		PNL PP PL	PANEL PUSH/PULL PLATE
	AFC AFF	ABOVE FINISHED COUNTER ABOVE FINISHED FLOOR		FHP FIN	FULL HEIGHT PARTITION FINISH		PR PRCST	PAIR PRECAST
	AFG AFS	ABOVE FINISHED GRADE ABOVE FINISHED SLAB		FIN BS FIN FLR	FINISH BOTH SIDES FINISH FLOOR		PRKG PS CONC	PARKING PRESTRESSED CONCRETE
	AGGR	AGGREGATE AIR HANDLING LINIT		FIN GR	FINISH GRADE		PSF	POUNDS PER SQUARE FOOT
F	AIB	AIR INFILTRATION BARRIER		FLDG	FOLDING		PT D	PRESSURE TREATED
	ALUM	ALUMINUM		FLG	FLOORING		PTN	
	ANOD	ANODIZE ACOUSTICAL PANEL CEILING		FLR	FLOOR		PVC PWR	POULY VINYL CHLORIDE POWER
	APPROX	APPROXIMATE AS REQUIRED		FIM	FACE OF CONCRETE	Q	QTY	QUARRY TILE QUANTITY
	ARCH	ARCHITECT ABOVE SUSPENDED CEILING		FOM	FIBER REINFORCED GYPSUM	R 	R RB	RESILIENT BASE
	ASSY AVG	ASSEMBLY AVERAGE		frmg frp	FRAMING FIBERGLASS REINFORCED PLASTIC		RBR RC	RUBBER REINFORCED CONCRETE
	AW AWP	ARCHITECTURAL WOODWORK ACOUSTICAL WALL PANEL		FRTW FSTNR	FIRE RETARDANT TREATED WOOD FASTENER		RCP RD	REFLECTED CEILING PLAN ROOF DRAIN
B	BALC BB	BALCONY BASEBOARD		FT FTG	FEET FOOTING		RDG INS REC	RIGID INSULATION, SOLID RECESSED
	BC BCS	BOOKCASE BABY CHANGING STATION	 G	FWC GA	FABRIC WALLCOVERING GAUGE		REF REM	REFERENCE REMOVABLE
	BD BDRY	BOARD BOUNDARY		GALV	GALVANIZED GRAB BAR		REP	REPAIR REPLACE
	BFF BHMA	BELOW FINISH FLOOR BUILDER'S HARDWARF		GC GI	GENERAL CONTRACTOR GLAZING		REQ REOD	REQUIRE REQUIRED
	RIT	MANUFACTURER'S ASSOCIATION		GR FL	GROUND FLOOR		RESIL	RESILIENT
	BLDG	BUILDING		GWB	GYPSUM WALL BOARD		RF	RESILIENT FLOORING
E	BLT IN	BUILT-IN BUILT-IN		GYP SHTG	GYPSUM SHEATHING		RH	
	BO BO	BOTTOM OF	H 	НС ПВ	HANDICAPPED		кнк RL	RIGHT HAND REVERSE ROOF LEADER
	BOS BOT	BOTTOM OF STEEL BOTTOM		HD HDPE	HAND DRYER HIGH DENSITY POLYETHYLENE		RLG RM	RAILING ROOM
	BP BRKT	BUILDING PAPER BRACKET		HDW HDWD	HARDWARE HARDWOOD		RO RSD	ROUGH OPENING ROLLING STEEL DOOR
	BSMT BTWN	BASEMENT BETWEEN		HM HMD	HOLLOW METAL HOLLOW METAL DOOR		RV RVL	ROOF VENT REVEAL
	BUR C CONC	BUILT-UP ROOFING CAST CONCRETE		HORIZ HT	HORIZONTAL HEIGHT	Ś	SB SCHED	SPLASH BLOCK SCHEDULE
Ĭ	CAB	CABINET		HVAC	HEATING, VENTILATION AND AIR CONDITIONING		SD SF	SMOKE DETECTOR SQUARE FOOT (FEFT)
	CAV	CAVITY CEMENTITIOUS (BACKER) BOARD		HYDR IBC	HYDRAULIC INTERNATIONAL BUILDING CODE		SFTWD	SOFTWOOD
	CD			ID	INSIDE DIAMETER		SHT MTL	SHEET METAL (FLASHING)
	CER	CERAMIC		INCL	INCLUDE (ING) INSULATION		SHV	SHEATHING SHELVING
	CF CF/CI	CONTRACTOR FURNISHED		ILO	INTERIOR IN LIEU OF		SIIVI SJ	Sivilar SCORED JOINT
	CFE	CONTRACTOR INSTALLED CONTRACTOR FURNISHED EQUIPMENT	ļļ	JAN	JANITOR		SKLI SLNT	SKYLIGHT SEALANT
D	CFLG CFM	COUNTERFLASHING CUBIC FEET PER MINUTE	K 	KII KO	KITCHEN KNOCK OUT		SMK SMLS	SMOKE SEAMLESS
	CFMF CFS	COLD-FORMED METAL FRAMING CUBIC FEET PER SECOND		KPD KPL	KEYPAD KICKPLATE		SND SPD	SANITARY NAPKIN DISPENSER SOAP DISPENSER
	CG CH	CORNER GUARD COAT HOOK	Ĺ	LAM LAV	LAMINATE LAVATORY		SP EL SPEC	SPOT ELEVATION SPECIFICATION
	CI CIP	CAST IRON CAST-IN-PLACE		LBS LDG	POUND LANDING		SQ SQ IN	SQUARE SQUARE INCH
	CJ CL	CONTROL JOINT CENTER LINE		LF LH	LINEAR FEET (FOOT) LEFT HAND		SQ YD SS	Square yard Squd Surface
	CLG CLG DIFF	CEILING CEILING DIFFUSER		LIN	LINEAR		SST ST	STAINLESS STEEL STAIRS
	CLG HT	CEILING HEIGHT		LOC	LOCATION		STD	STANDARD STEEL JOIST
	CLR	CLEAR CLEAR		LVDR	LOUVER DOOR		STL JST STL RF DK	STEEL ROOF DECK
	CLO CLR	CLOSET	M	LVR MACH RM	LOUVER MACHINE ROOM		STOR	STORAGE STRINGERS
	CLRM CMU	Classroom Concrete Masonry Unit		MANUF MATL	MANUFACTURER MATERIAL		STRUCT STRB/HRN	STRUCTURAL STROBE/HORN
	CNDS CDR	CONDENSATE CARD READER		MAX MECH	MAXIMUM MECHANICAL		SUB FL SUSP	SUBFLOOR SUSPENDED
	CO COL	CLEANOUT COLUMN		MECH RM MEMB	MECHANICAL ROOM MEMBRANE		SV SW	SHEET VINYL SIDEWALK
	COMM CONC	COMMUNICATION CONCRETE		MF MFR	MILL FINISH MANUFACTURER	Ť	T T&B	TREAD TOP AND BOTTOM
С	CONC FLR CONF	CONCRETE FLOOR CONFERENCE		MH MID	Mop Holder Middle		TBD TD	TO BE DETERMINED TRENCH DRAIN
	CONT	CONTINUE		MIN MIRR	MINIMUM, MINUTE MIRROR		TEL TEMP	TELEPHONE TEMPORARY
	CORR CP	Corridor Concrete PIPF		MISC MLDG	MISCELLANEOUS MOLDING (MOLII DING)		TFF T&G	Top of Finish Floor Tongue and groovf
	CPT	CARPET CONTROL ROOM		MO MOD	MASONRY OPENING MODIFY		THK TK RD	THICKNESS
	CS	CAST STONE CASEWORK		MR MTC	MOISTURE RESISTANT		TMPD GL	
	CT	CERAMIC THE DASE		MTL	METAL		TO	TOP OF
	CTE	CERAMIC TILE FLOOR		MWP	MOVABLE MEMBRANE WATERPROOFING		TOP	TOP OF MASONRY
	CU FT	CUBIC FEET	N 	N NA	NORTH NOT APPLICABLE		TOP	TOP OF PARAPET TOPOGRAPHY
D P	CW D	CASEMENT WINDOW DEPTH		NFPA	NATIONAL FIRE PROTECTION ASSOCIATION		TOS TP	TOP OF SLAB TOILET PAPER DISPENSER
	DBL DEMO	DOUBLE DEMOLITION		NIC NO	NOT IN CONTRACT NUMBER		TRANS TRTD	TRANSPARENT TREATED
	DEPT DET	DEPARTMENT DETAIL		NOM NP	Nominal No paint	 U	TV UC	TELEVISION UNDERCUT
	DIA DIM	DIAMETER DIMENSION		NRC NTS	NOISE REDUCTION COEFFICIENT NOT TO SCALE	 v	UNO VB	UNLESS OTHERWISE NOTED VAPOR BARRIER
com.	DIR DIST	DIRECTION DISTANCE	Ö 	OC OD	on center Outside diameter		VFY VIF	VERIFY VERIFY IN FIELD
B	DIV DN	DIVISION DOWN		OFCI	OWNER FURNISHED/ CONTRACTOR INSTALLED		VERT VCT	VERICAL VINYL COMPOSITION THE
voanv	DOC	DOCUMENT		OFOI	OWNER FURNISHED/OWNER INSTALLE		VWC	VINYL WALL COVERING
	DS	DOWNSPOUT		OFF	OFFICE OBSCLIRE GLASS		W/O W/RF	WITHOUT WATER ROTTLE FILLED
2023_	DWG			0/0	OUTSIDE TO OUTSIDE			WATER CLOSET
1 ^{ζ-1}	DF EA	DRINKING FOUNTAIN EACH		OPH OPNG	OPPOSITE HAND OPENING		WR	WOOD WASTE RECEPTACLE
23_b	EF EIFS	EACH FACE EXTERIOR INSULATION & FINISH SYSTEM		opp opq	OPPOSITE OPAQUE		WWF	WELDED WIRE FABRIC
fety_h	EJ ES	EXPANSION JOINT EACH SIDE		owsj opr	OPEN WEB STEEL JOIST OPERABLE			
Sa	EL ELEV	ELEVATION ELEVATOR		ORD ORIG	OVERFLOW ROOF DRAIN ORIGINAL			
	ENTR EPS	ENTRANCE EXPANDED POLYSTYRENE BOARD	P 	PA PAR	PUBLIC ADDRESS PARAPET			
	EQ	EQUAL EQUIPMENT		PAT PR	PATTERN PULL BOX			
	EST	ESTIMATED		PBD	PARTICLEBOARD			
	EXP	EXPOSED		PCF				
	EXTG	FXTINGUISHER		PFRF	PERFORATED			

EXT GR

EXTERIOR GRADE

| 7





| 7





		8	7	6
	F			
	F			
	Г			
The construction of the co				
The constrained operation of the constrained operation operation of the constrained operation operation of the constrained operation opera				
I da constructional and construction an				
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				
E012023 04 CM Contractionic Contraction Co				
MANAGO CONSTRUCTION CONTRACTOR CO				
Valuation and the second secon				
E21202326.04104 Cubes/States/Sta	C			
2.212023 3.62.41 Produces Data contract Advances Data contract Advan				
Solucian dela Conserva della Conserv				
Important Important <t< td=""><td></td><td></td><td></td><td></td></t<>				
CVIOSANDAMENTO LA CONSTRUMENTACIONALISANDA CONSTRUMENTACIONALISANDA LA CONSTRUMENTACIONALISANDA LA CONSTRUMENTACIONALISANDA LA CONSTRUMENTACIONALISANDA LA CONSTRUMENTACIONALISANDA LA CONSTRUMENTACIÓN DA CON				
201202 196-01 Montaniana Construction of the second				
25/152 23-29-20 Moleculor Public Subscription 2 Currentivizza-9-20 Moleculor Public Subscription 2 2/15-2023 Journal Contraction 2 2/15-2023 Journal Contracti				
Value 2/31/2023 346-40 FM CNLssexMatchine 0.00 Seily_US22_517.2023 346-40 FM Seily_US22_53.2950 Wolfeboor 0.00 Seily_US22_517.2023 346-40 FM Seily_US22_53.5950 Wolfeboor 0.00 Value Name Value Name <t< td=""><td>lic</td><td></td><td></td><td></td></t<>	lic			
Signature of the second sec	oro Pub rvt			
2431/2023 346.44 PM C.VUSessVtanietk/Documents/22-950 Value Salay Value Value	Wolfeb nh.com.			
231/2023 2461 PM C.VUSers/Idamick/Documents 2631/2001 2631/2000 2631/2000 2631/20000	banwell			
5/31/2023 346.44 PM C.VUsesNdaniekDocu A Sainty_R023 3.46.42 PM A Sainty_R023 3.46.42 PM	uments\ 3_tom@			
5/31/2023 3:46:44 PM 5/31/2023 3:46:44 PM Safey_L233_5- A	els/Doci 31-2023			
2/17203 3:46:44 PM C:VISe Safety - 12/10/2 3:46 PM C	rs\tdanie R23_5-3			
A 8 7 6	C:\User Safety_I			
4	Σ			
A 8 6	46:44 P			
A 29317 A 8 7 6	:023 3:4			
A 5 8 7 6	5/31/2			
		8	7	6

 1			
	-GWB FINISH -STEEL STUD INFILL -FLOOR FINISH PER PLANS		
LEVEL 2 110'-11 1/2"	STEEL DECK PER S-DWG'S	F	CONSTRUCTION MANAGER: CONSTRUCTION MANAGER: CONSTRUCTION CONSTRUCTION, INC 132 S MAIN STREET
	-STEEL STRUCTURE PER S- DWG'S -DENS-ELEMENT GYP SHEATHING -STEEL STUD INFILL -FIBER-CEMENT CLAPBOARDS -3" SPRAY-FOAM INSULATION -Z-GIRT		LACONIA, NH 03246 T: (603) 524-3776 CIVIL: NORWAY PLAINS ASSOCIATES, INC 2 CONTINENTAL BLVD ROCHESTER, NH 03867 T: (603) 335-3948 STRUCTURAL: TFMORAN, INC 48 CONSTITUTION DRIVE BEDFORD, NH 03110 T: (603) 472-4488 ARCHITECT: BANWELL ARCHITECTS, NH
	-3" CASCADIA CLIPS -STEEL STUD INFILL -ACT CEILING PER PLANS -4" CMU MASONRY VENEER	E	6 SOUTH PARK STREET LEBANON, NH 03766 T: (603) 448-3778 MEP/FP: CHARLES P. BUCKLEY, P.E. 500 DEPOT STREET RUMNEY, NH 03266 T: (603) 786-9992
	 -4" CMU VENEER (INTERIOR) -FIBER CEMENT CLAP BOARDS -Z-GIRT -SPRAY-FOAM INSULATION - 3" -METAL STUD INFILL -SPRAY FOAM INSULATION -3" CASCADIA CLIP -DENS-ELEMENT GYP SHEATHING -PRE-FIN ALUMINUM FLASHING -WOOD BLOCKING -PEEL AND STICK AIR BARRIER 	D	VITAL INFORMATION REQUIRED FOR THE SUCCESSFUL COMPLETION OF THE WORK IS CONTAINED IN THE PROJECT MANUAL PREPARED FOR THIS PROJECT.
	—WOOD WINDOW BUCK —SHIM AS REQUIRED —WINDOW PER SCHEDULE		REVISION DATE COMMENTS
	STEEL STRUCTURE BEYOND - SEE S-DWG'S SOLID SURFACE SILL WINDOW PER SCHEDULE SHIM AS REQ'D PLYWOOD WINDOW BUCK BACKER ROD AND SEALANT CAST-STONE WINDOW SILL PEEL AND STICK AIR / VAPOR BARRIER HOLED RAP-TIE MASONRY ANCHOR DENS ELEMENT GYPSUM SHEATHING METAL STUD INFILL SPRAY-FOAM INSULATION - 3" 4" CMU MASONRY VENEER	B	PROJECT: WOLFEBORO PUBLIC SAFETY BUILDING 251 SOUTH MAIN STREET, WOLFEBORO, NH ISSUED: DESIGN DEVELOPMENT DESIGN DEVELOPMENT DRAWING EXTERIOR DETAILS PROJECT NO: 22-950 DATE: 05-31-2023 SHEET NUMBER:

	8	7	6
F			
E			
C			
o Public t			
Volfebor 1.com.rv			
2-950 V anwelln 9			
nents\2 _tom@b			
s\Docur I-2023_			
Ntdaniel 23_5-3			
כ:∖Users ¢afety_R			
6:52 PN			
)23 3:4 ₁			
5/31/2(
A	8	7	6
			I

4	3

	Ð	the carriage											
		6 SOUTH PAR LEBANON, NH T: 603 448	4 03766 3778										
	COPYRIGHT © 2022 BANWELL ARCHITECTS ALL RIGHTS RESERVED. NO REPRODUCTION WITHOUT PRIOR WRITTEN PERMISSION CONSULTANTS / DESIGN TEAM: OWNER: TOWN OF WOLFEBORO PO BOX 629												
F	WOLFEBUR		D										
	CONSTRUC CONNESTO 132 S MAIN LACONIA, N T: (603) 52	CTION MANAGE IN CONSTRUCTI IN STREET IH 03246 24-3776	: R: ION, INC										
	CIVIL: NORWAY PI 2 CONTINE ROCHESTEF T: (603) 33	LAINS ASSOCIAT NTAL BLVD R, NH 03867 35-3948	fes, inc										
	STRUCTUR TFMORAN, 48 CONSTI BEDFORD, 1 T: (603) 47	AL: INC TUTION DRIVE NH 03110 '2-4488											
E	ARCHITECT BANWELL A 6 SOUTH P LEBANON, I T: (603) 44	: RCHITECTS, NH ARK STREET NH 03766 8-3778											
	MEP/FP: CHARLES P. 500 DEPOT RUMNEY, N T: (603) 78	. BUCKLEY, P.E. ⁻ STREET H 03266 36-9992											
	VITAL SU WOF MAN	INFORMATION RE CCESSFUL COMPL RK IS CONTAINED UAL PREPARED FO	Quired for the Etion of the In the project Ir this project.										
D	D												
	0	O FOR	ONSTRUC										
	REVISION	DATE	COMMENTS										
	REVISION	DATE	COMMENTS										
С	REVISION	DATE	COMMENTS										
С	REVISION	DATE	COMMENTS										
С	REVISION	DATE											
С	REVISION	DATE											
С	REVISION	DATE											
С	REVISION	DATE											
С	REVISION		C SAFETY										
В	REVISION REVISION	ORO PUBLIG G JTH MAIN S ORO, NH	C SAFETY TREET,										
В	REVISION REVISION REVISION REVISION REVISION REVISION REVISION REVISION REVISION REVISION		COMMENTS										
В	REVISION REVISION REVISION REVISION REV PLAN & N REY PLAN & N												
В	REVISION REVISION PROJECT: WOLFEB BUILDIN 251 SOU WOLFEB ISSUED: DESIGN DESIGN DRAWING ENLARGE AND SEC PROJECT NO:	DATE DATE DATE DATE DEVELOPMI DEVELOPMI 22-950	COMMENTS COMMENTS										
В	REVISION REVISION												

CONTROL WALL

8

6

5

| 7

2

1

3

banwel THE CARRIAGE HOUSE 6 SOUTH PARK STREET LEBANON, NH 03766 T: 603 448 3778 COPYRIGHT © 2022 BANWELL ARCHITECTS ALL RIGHTS RESERVED NO REPRODUCTION WITHOUT PRIOR WRITTEN PERMISSION CONSULTANTS / DESIGN TEAM: TOWN OF WOLFEBORO WOLFEBORO, NH 03894 CONSTRUCTION MANAGER: CONNESTON CONSTRUCTION, INC NORWAY PLAINS ASSOCIATES, INC ROCHESTER, NH 03867 48 CONSTITUTION DRIVE BANWELL ARCHITECTS, NH 6 SOUTH PARK STREET CHARLES P. BUCKLEY, P.E. VITAL INFORMATION REQUIRED FOR THE SUCCESSFUL COMPLETION OF THE WORK IS CONTAINED IN THE PROJECT MANUAL PREPARED FOR THIS PROJECT. G COMMENTS KEY PLAN & NORTH ARROW: WOLFEBORO PUBLIC SAFETY 251 SOUTH MAIN STREET, WOLFEBORO, NH DESIGN DEVELOPMENT DOOR AND WINDOW TYPES DATE: 05-31-2023 A601

9 PM C:\Users\tdaniels\Documents\22-950 Wolfeboro Public Safety_R23_5-31-2023_tom@banyvellnh.com.rvt

C. NUSEIS VIL	Safety_R23	
01/2020 0:40:07 /10		

| 7

													1							
OPENING								DOORS			FR		1				IARDWA	RE		
ABER			ĸ											-	E.	ARE			Ř	
NUN 5	AME		UMBE							SS		_		DNG	RE SE	ARDW		ADER	ERATO	
ENING	N NO		N MO	щ	TERIA	ISH	VES	DTH	GHT	CKNE	ų –	TERIA	ISH	E RAT	RDWA	NIC H	DSER	RE	A OPE	
			С. КО	ТҮР	MA	FIN	LEA	MI	Ξ	<u>E</u>	ТҮР	MA	FIN	FIR	HAI	PAN	CLC	CAI	AD,	COMMENTS
)1A		001		G				6'-0"	7'-0"	1 3/4"										
)2A	CORR	001	B I	F				8-0 3'-0"	7'-0"	1 3/4										
)3A)3B	CORR RATED CORR	009	> 	F F				3'-0" 3'-0"	7'-0" 7'-0"	1 3/4" 1 3/4"										
)4A	RATED CORR	004		F				3'-0"	7'-0"	1 3/4"										
)4B)5A	CORRIDOR	004	i i 5.1 l	F				3-0 3'-0"	7 -0	1 3/4										
)5B)6A	CORRIDOR	005	5.1 I	F F				3'-0" 3'-0"	7'-0" 7'-0"	1 3/4"										
)7A	CORR	007	7					4'-0"	7'-0"	0"										
08B	CORR	008	3 1	F				3'-0"	7'-0"	1 3/4										
10A 01A	VESTIBULE PUBLIC LOBBY	010) 	FG2				3'-0" 4'-0"	7'-0" 7'-0"	1 3/4" 0"	HN	/1 F	PTD							
)1B		010		FG2				3'-0"	7'-0"	1 3/4"										
)2R)2B	CALL / DISPATCH	102	<u>2</u>	F				3'-0"	7'-0"	1 3/4"										
)2C)2D	DISP SUP ADA T	102 102	2.1 2.3	F F				3'-0" 3'-0"	7'-0"	1 3/4"										
)2E)2F		102	2.4 I	F				3'-0" 3'-0"	7'-0" 7'-0"	1 3/4"										
)3A	RATED CORR	004		F				3'-0"	7'-0"	1 3/4"										
)3B)4A	INTERVIEW MEN	103 104	5 	F				3'-0" 3'-0"	7'-0" 7'-0"	1 3/4"										
)5A)6A	WOMEN	105	5	F F				3'-0" 3'-0"	7'-0" 7'-0"	1 3/4"										
)7A	DETECTIVES	107	7 7	F				3'-0"	7'-0"	1 3/4"										
)8A	VEST	107	8.3	F F				3 -0" 3'-0"	7'-0"	1 3/4"										
08B 08C	VEST	108 108	3.3 I 3.6 I	F				3'-0" 3'-0"	7'-0" 7'-0"	1 3/4" 1 3/4"										
08D	ST	108	3.8 I	F				3'-0"	7'-0"	1 3/4"										
08E 08F	INTOX - LIVE SCAN	108	3.1 3.2	F F				3-0	7'-0"	1 3/4										
10A 10B	COMMUNITY ROOM / EOC COMMUNITY ROOM / EOC	11C))	F F	WD WD	FCT FCT		3'-0" 3'-0"	7'-0" 7'-0"	1 3/4"	HN HN	Л F Л F	PTD PTD							
2A	STR	112	2 1	F				3'-0"	7'-0"	1 3/4"										
13A 13B	CORR	009	>	F				3-0 6'-0"	7'-0"	1 3/4										
3C 4A	CORR PATROL OFFICERS	009	9 3	F F				6'-0" 3'-0"	7'-0" 7'-0"	1 3/4"										
I5A	STAFF SGT	115	5 I	F				3'-0"	7'-0"	1 3/4"										
16A	T	116		F				3'-0"	7'-0"	1 3/4"										
7A 8A	EVIDENCE STORAGE FD - CHIEF	117 118	/ }	F				3'-0" 3'-0"	7'-0" 7'-0"	1 3/4" 1 3/4"										
18B 19A	STR FD - DEPUTY	118	3.1 I	F F				3'-0" 3'-0"	7'-0" 7'-0"	1 3/4"										
19B	STR	119	9.1 I	F				3'-0"	7'-0"	1 3/4"										
20A 20B	FD - ADMIN	120) 	F F				3-0 4'-0"	7'-0"	1 3/4										
21A 22A	PLAN REVIEW FILE STR	121 122	 2	F F				3'-0" 3'-0"	7'-0" 7'-0"	1 3/4"										
23A	MEETING	123	3	F				3'-0"	7'-0"	1 3/4"										
25A	MECH / IT / ELEC	124	5 I	F				3'-0"	7'-0"	1 3/4"										
26A 27A	DAY OFFICE TOOL STORAGE	126 127	5 7	F F				3'-0" 6'-0"	7'-0"	1 3/4"										
28A	GEAR ST	128	3 2	F				3'-0" 3'-0"	7'-0"	1 3/4"										
BOA	MECH PH1	130) 	F				3'-0"	7'-0"	1 3/4"										
30C 30C	MECH PH1 MECH / SPR	130)).1	F F				3'-0"	7'-0"	1 3/4"										
32A 32B	BUNKER GEAR BUNKER GEAR	132 132	2	F				3'-0" 3'-0"	7'-0" 7'-0"	1 3/4"			_							
32C	APPARATUS BAY	AB1		F				3'-0"	7'-0"	1 3/4"										
33A 83B	M SHOWER	133	, 3.1	-				4'-0"	7'-0"	0"										
34A 34B	CORR WOMEN'S LOCKERS	008 134	3 	F				3'-0" 3'-0"	7'-0" 7'-0"	1 3/4" 0"										
35A 35B		135 135	5 5	F F				3'-0" 3'-0"	7'-0" 7'-0"	1 3/4"										
36A	CASCADE	136		F				3'-0"	7'-0"	1 3/4"										
56В 87А	CASCADE HOSE TOWER	136 137) 7	F				3'-0" 3'-6"	7'-0" 7'-0"	1 3/4" 1 3/4"										
87B 88A	HOSE TOWER	137 008	7 3	F				3'-6" 3'-0"	7'-0" 7'-0"	1 3/4"										
81A	CORR	007	7	F				3'-0"	7'-0"	1 3/4"										
B2A	APPARATUS BAY	AB1 AB2	2 <u> </u>	F				o -0" 3'-0"	7'-0" 7'-0"	1 3/4" 1 3/4"										
82B //R1	CORR	008 E1 1	3 1	F				3'-0" 3'-0"	7'-0" 7'-0"	1 3/4"										
	APPARATUS BAY	AB1		0H1				14'-0"	14'-0"	2"										
12 13	APPARATUS BAY	AB1 AB1		0H1				14 -0" 14'-0"	14 -0"	∠ 2"										
-14 -15	APPARATUS BAY APPARATUS BAY	AB1 AB1		OH1 OH1				14'-0" 14'-0"	14'-0" 14'-0"	2" 2"										
46 47	APPARATUS BAY	AB1		0H1				14'-0"	14'-0"	2"										
/ -18	GARAGE	AB2	- (0 2 (0	OH OH				12'-0"	12'-0"	2"										
+9 +10	GARAGE GARAGE	AB2 AB2	<u>2</u> (ОН ОН				12'-0" 12'-0"	12'-0" 12'-0"	2" 2"										
H11 ′1∆	SALLY PORT	109 СТ1) (OH G				18'-0" 3'-0"	10'-0" 7'-0"	2"										
1B	STAIR TOWER 1	ST1		G				3'-0"	7'-0"	1 3/4"										
2A 2B	STAIR TOWER 2 STAIR TOWER 2	ST2 ST2		N N				3'-0" 3'-0"	7'-0" 7'-0"	1 3/4" 1 3/4"										
2C	STAIR TOWER 2	ST2	. I	N				3'-0"	7'-0"	1 3/4"										

	0000000							NEW DOOR	and frame S	JHEDUL	É
e e	OPENING						DOORS				T
OPENING NUMBER	ROOM NAME	room number	TYPE	MATERIAL	FINISH	LEAVES	MIDTH	HEIGHT	THICKNESS	ГҮРЕ	
LEVEL 2			- I - ·						·		
021A	CORR	022	F				3'-0"	7'-0"	1 3/4"		
022A	Room	152					3'-6"	7'-0"	0"		
024A	Room	152					3'-6"	7'-0"	0"		_
026A	CORR	027					4'-0"	7'-0"	0"		+
027A		027					3'-0"	7'-0"	1 3/4"		+
107R	CORR	023.1	F				3'-0"	7-0	1 3/4		+
201A	CENTRAL BREAK ROOM	201	F				3'-0"	7'-0"	1 3/4"		+
202A	BUNK	202	F				3'-0"	7'-0"	1 3/4"		t
203A	LONG TERM FILE	203	F				3'-0"	7'-0"	1 3/4"		
203B	LONG TERM FILE	203	F				3'-0"	7'-0"	1 3/4"		
203C	LONG TERM FILE	203	F				3'-0"	7'-0"	1 3/4"		\downarrow
204A		204	F				3'-0"	7'-0"	1 3/4"		+
205A		205	F				3'-0"	7'-0	1 3/4		+
207A	CORR	022	F				3'-0"	7'-0"	1 3/4"		+
208A	T	208	F				3'-0"	7'-0"	1 3/4"		t
209A	COPIES / SUPPLIES	209	F				3'-0"	7'-0"	1 3/4"		
210A	ADMIN ASST	210	F				3'-0"	7'-0"	1 3/4"		
210B	ADMIN ASST	210	F				4'-0"	7'-0"	1 3/4"		_
2100		023					3'-0"	7'-0"	1 3/4"		+
211A 211B	CAPTAIN	211	F				3-0 4'-0"	7'-0	1 3/4		+
212A	CONFERENCE ROOM	212	F				3'-0"	7'-0"	1 3/4"		+
213A	POLICE CHIEF	213	F				3'-0"	7'-0"	1 3/4"		t
213B	POLICE CHIEF	213	F				4'-0"	7'-0"	1 3/4"		
214A	CORR	023	F				3'-0"	7'-0"	1 3/4"		
214B	PROSECUTER	214	F				2'-6"	7'-0"	1 3/4"		+
215A 215B		215	F				3'-0"	7'-0"	1 3/4"		+
216A	F - LOCKER	215	F				3'-0"	7'-0"	1 3/4"		+
216B	SHOWER - F	216.1	•				3'-0"	7'-0"	0"		+
217A	M - LOCKER	217	F				3'-0"	7'-0"	1 3/4"		T
217B	M - LOCKER	217					3'-6"	7'-0"	0"		
217C	M - TOILETS	217.1	-				3'-0"	7'-0"	0"		_
218A		218	F				3'-0"	7'-0"	1 3/4"		+
219A 220A	MECHANICAL	219	F				3'-0"	7'-0	1 3/4		+
221A	VESTIBULE	221.2	F				3'-0"	7'-0"	1 3/4"		+
221B	VESTIBULE	221.2					3'-6"	7'-0"	0"		t
221C	VESTIBULE	221.1					3'-6"	7'-0"	0"		
221D	VESTIBULE	221.1	F				3'-0"	7'-0"	1 3/4"		
222A	M - TOILETS	222	F				3'-0"	7'-0"	1 3/4"		_
223A 2244	P - TUILETS	223					3-0 4'-0"	7'-0	0"		+
224A 226A	KITCHEN	225	F				3'-0"	7'-0"	1 3/4"		╈
227A	DAY ROOM	224	F				3'-0"	7'-0"	1 3/4"		t
228A	CORRIDOR	026	F				6'-0"	7'-0"	1 3/4"		
229A	T / SHOWER	229	F				3'-0"	7'-0"	1 3/4"		
230A	BUNK	230	F				3'-0"	7'-0"	1 3/4"		+
231A	I / SHOWER	231					3'-0"	7'-0"	1 3/4"		+
232A 2334	BUINK	232	F				3-0	7'-0	1 3/4		+
233A	BUNK	233	F				3'-0"	7'-0"	1 3/4"		+
235A	LIEUT / EMT	235	F				3'-0"	7'-0"	1 3/4"		+
236A	BUNK	236	F				3'-0"	7'-0"	1 3/4"		1
237A	LIEUT / EMT	237	F				3'-0"	7'-0"	1 3/4"		1
238A	LIEUT / EMT	238	F				3'-0"	7'-0"	1 3/4"		+
239A 241A		020	F				3 -U ["]	7'-0"	1 3/4"		+
242A	CORR	027	F				3'-0"	7'-0"	1 3/4"		+
250A	FUTURE SPACE	U200	F				6'-0"	7'-0"	1 3/4"		+
ST1C	STAIR TOWER 1	ST1	F				3'-0"	7'-0"	1 3/4"		1
ST2D	STAIR TOWER 2	ST2	F				3'-0"	7'-0"	1 3/4"		ļ
ST2H	M - TOILETS	217.1	F				3'-0"	7'-0"	1 3/4"	_	+
∣ວາ∠r ∣	KATED CORR	020	F	1	1	1	3- ∪	/-U	1 3/4		

								1				
VE SCH	HEDULE	E - LEVEL	. 2			 H	ARDWA	RE				6 SOUTH PARK STREET LEBANON, NH 03766 T: 603 448 3778
	TYPE	MATERIAL	FINISH	FIRE RATING	HARDWARE SET	PANIC HARDWARE	CLOSER	CARD READER	ADA OPERATOR	COMMENTS		COPYRIGHT © 2022 BANWELL ARCHITECTS ALL RIGHTS RESERVED. NO REPRODUCTION WITHOUT PRIOR WRITTEN PERMISSION CONSULTANTS / DESIGN TEAM: OWNER: TOWN OF WOLFEBORO PO BOX 629 WOLFEBORO, NH 03894
											F	CONSTRUCTION MANAGER: CONNESTON CONSTRUCTION, INC 132 S MAIN STREET LACONIA, NH 03246 T: (603) 524-3776
												CIVIL: NORWAY PLAINS ASSOCIATES, INC 2 CONTINENTAL BLVD ROCHESTER, NH 03867 T: (603) 335-3948
												STRUCTURAL: TFMORAN, INC 48 CONSTITUTION DRIVE BEDFORD, NH 03110 T: (603) 472-4488
											E	ARCHITECT: BANWELL ARCHITECTS, NH 6 SOUTH PARK STREET LEBANON, NH 03766 T: (603) 448-3778
												CHARLES P. BUCKLEY, P.E. 500 DEPOT STREET RUMNEY, NH 03266 T: (603) 786-9992
											D	VITAL INFORMATION REQUIRED FOR THE SUCCESSFUL COMPLETION OF THE WORK IS CONTAINED IN THE PROJECT MANUAL PREPARED FOR THIS PROJECT.
												S S S I NON
												PROFFORCONS
												REVISION DATE COMMENTS
											С	
												KEY PLAN & NORTH ARROW:
											В	PROJECT: WOLFEBORO PUBLIC SAFETY BUILDING 251 SOUTH MAIN STREET, WOLFEBORO NH
												ISSUED: DESIGN DEVELOPMENT
												DOOR SCHEDULES
												PROJECT NO: 22-950 DATE: 05-31-2023 SHEET NUMBER:
												A602
2								1			А	

		7			6
	PIPING	ELEMEN1	<u>s/valvi</u>	NG	
HWS	HOT WATER SUPPLY			GATE VALVE	
HWR	HOT WATER RETURN			GLOBE VALVE	
———————————————————————————————————————	PIPE RISING UP		RL	REFRIGERANT LIQUID F	PIPE
)	PIPE DROPPING DOWN		RS	REFRIGERANT SUCTION	N PIPE
-	CONCENTRIC REDUCER		<u> </u>	BALL VALVE	
	ECCENTRIC REDUCER			SWING CHECK VALVE	
—— G ——	L.P. GAS				
	TWO WAY CONTROL VALVE - ON - OFF OPERATION			LIFT CHECK VALVE	
S				BALANCING VALVE	
→×,	SOLENOID VALVE		<u> </u>	CIRCUIT SETTING BALA	NCING VALVE
	PRESSURE REDUCING VALVE (PRV)			
	DIRECTION OF FLOW			RELIEF/SAFETY VALVE	
	DIRECTION OF PITCH-RISE OR	DROP	−−− • • • • • • • • • • • • • • • • • •	MANUAL AIR VENT	
	STRAINER WITH BLOW OFF VAL	VE			
	<u>Hot water Pipin</u>	<u>IG SPECIFI</u>	<u>CATIONS</u>		
1. PIPING - COPI	PER PIPE (TUBE) - ASTM B-88	3 - TYPE L HARD	DRAWN.		
2. FITTINGS - CO PROPRESS	OPER - WROUGHT OR CAST FITTINGS ARE AN ALTERNAT	COOPER, SOLD	ER TYPE. D FITTINGS.		
3. PIPE JOINTS -	SILVER SOLDER				
4. INSULATION					
- INDOOR 1" TH WITH ALL	ICK FIBERGLASS SNAP-ON T SERVICE JACKET, BY CERTA	YPE PIPE INSUL	ATION JAL.		

GENERAL

AND AT ALL BRANCH PIPING.

(E) EXISTING EQUIPMENT TO REMAIN

5. VALVES - CLASS 125 OR CLASS 150 VALVES SUITABLE FOR

6. PROVIDE VENTS AT ALL HIGH POINTS OF HOT WATER PIPING.

7. PROVIDE DRAINS AT ALL LOW POINTS OF HOT WATER PIPING.

WATER RETURN PIPE FROM EACH HEATING UNIT.

8. INSTALL ALL HOT WATER HEATING EQUIPMENT IN STRICT COMPLIANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

10. MECHANICAL CONTRACTOR SHALL BALANCE THE HOT WATER FLOW TO EACH HEATING UNIT AND PROVIDE A COMPLETE TYPE WRITTEN BALANCING REPORT FOR REVIEW AND APPROVAL OF THE DESIGN

9. INSTALL BALANCING VALVES (B&G CIRCUIT SETTERS) ON THE HOT

11. PROVIDE ISOLATION BALL VALVES AT ALL EQUIPMENT TAKE-OFFS

HOT WATER SERVICE.

ENGINEER.

 \bigotimes

 \bigcirc

 \ominus

- EXISTING EQUIPMENT TO BE RELOCATED (R)
- (ER) EXISTING EQUIPMENT TO BE REMOVED
- (RE) REPLACE EXISTING WITH NEW (N) NEW
 - TERMINATION POINT OF DEMOLITION
 - CONNECT NEW TO EXISTING
 - SHEET NOTE
 - EQUIPMENT DESIGNATION

HVAC CON	ITROL SYMBOLS
SYMBOL	DESCRIPTION
——————————————————————————————————————	CONTROL VALVE , 2-WAY
	CONTROL VALVE , 3-WAY
	ROOM OR ZONE THERMOSTAT
	DUCT THERMOSTAT
	THERMOMETER
TS	DUCT TEMPERATURE SENSOR
DM	DAMPER MOTOR
	DAMPER
M	MOTOR
BD	BYPASS DAMPER
ZD	ZONE DAMPER
TS	TIMER SWITCH
SD	DUCT MOUNTED SMOKE DETECTOR
VS	VARIABLE SPEED CONTROLLER
CO2	CO2 DETECTOR
Н	HUMIDISTAT

		GRILLE - RE	GISTER - DIFFUSE	R SCHED	JLE	
SR-S	SUPPLY REGISTER	RG-RETURN GRILLE	CD-CEILING DIFFUSER	EG-EXHAUST	GRILLE	TG-TRANSFER GRILLE
QUIPMENT NO.	SIZE	TYPE	MANUFACTURER & MODEL	FINISH		OPTIONS-ACCESSORIES
CD-1	6X6	CEILING DIFFUSER	HART & COOLEY MODEL ART 6X6 (4-WAY)	WHITE	DAMPER 4-WAY BLOW	
CD-2	6X6	CEILING DIFFUSER	HART & COOLEY MODEL ARE 6X6 (3-WAY)	WHITE	DAMPER 3 WAY BLOW	
CD-3	9X9	CEILING DIFFUSER	HART & COOLEY MODEL ART 9X9 (4-WAY)	WHITE	DAMPER 4-WAY BLOW	
CD-4	6X6	CEILING DIFFUSER	HART & COOLEY MODEL ARE 6X6 (4-WAY)	WHITE	DAMPER4-WAY BLOW	
CD-5	9X9	CEILING DIFFUSER	HART & COOLEY MODEL ARE 9X9 (4-WAY)	WHITE	DAMPER4-WAY BLOW	
CD-6	12X12	CEILING DIFFUSER	HART & COOLEY MODEL ART 12X12 (4-WAY)	WHITE	DAMPER4-WAY BLOW	
RG-1	22X12	RETURN GRILLE	HART & COOLEY MODEL RH45 - 22X12	WHITE		
EG-1	22X12	EXHAUST GRILLE	HART & COOLEY MODEL RH45 - 22X12	WHITE		
<u>NOTE:</u> (1) ALL REGISTERS, GRILLES A	ND DIFFUSERS SHALL BE AS SI	PECIFIED , OR EQUAL BY PRICE INDUSTRIES.			

		ELEC	TRIC C	ABINET	HEATER SCHE	DULE	ECH
EQUIPMENT NO.	VOLTS/PHASE	AMPS	KW	<u>BTU</u> HR.	MANUFACTURER & MODEL	OPTIONS-ACCESSORIES	
ECH-1	120/1	12.5	1.5	5120	QMARK MODEL AWH3150F	RECESSED MOUNTING BOXLINE VOLTAGE WALL MOUNT THERMOSTAT	
ECH-2	208/1	14.4	3.0	10235	QMARK MODEL AWH4404F	RECESSED MOUNTING BOX LINE VOLTAGE WALL MOUNT THERMOSTAT	
NOTES:							

7

6

 \square

 \searrow

| 3

DUCTWORK SYMBOLS

- SECTION THROUGH RETURN OR EXHAUST AIR SECTION THROUGH SUPPLY OR OUTSIDE AIR DUCT SUPPLY OR OUTSIDE AIR DUCT ACCESS DOOR (BOTTOM OR SIDE)
- ACOUSTICALLY LINED DUCT DAMPER, FIRE
- DAMPER, MANUAL VOLUME
- INCLINED DROP IN DIRECTION OF ARROW
- INCLINED RISE IN DIRECTION OF ARROW TRANSITION, RECTANGULAR TO ROUND
- FLEXIBLE DUCT
- IN-LINE FAN
- TRANSITION, RECTANGULAR
- SPIN-IN COLLAR INTO ADAPTER ON TOP OF DUCT
- CEILING SUPPLY AIR DIFFUSER (CD)
- SIDEWALL SUPPLY AIR REGISTER (SR)
- ELBOW TURNED DOWN
- ELBOW TURNED UP
- ELBOW, RADIUS TYPE ELBOW, SQUARE OR RECTANGULAR TYPE WITH AIRFOIL TURNING VANES
- RETURN OR EXHAUST AIR DUCT
- CEILING RETURN AIR REGISTER (RR)
- SIDEWALL RETURN AIR REGISTER (RR)
- OPEN END DUCT
- FLEXIBLE CONNECTION

SCC	PE	OF	WO	RK

- A. THE CONTRACTOR AND LABOR TO SATIS WHETHER SPECIFIED
- B. ALL WORK IS TO BE F WITH THE INTERNAT THE INTERNATIONAL
- C. THE CONTRACTOR S EXAMINE THE PROPO HIMSELF THE CONDI ALLOWANCE SHALL MAKE SUCH EXAMIN
- D. ALL EQUIPMENT AND "APPROVED EQUAL"
- <u>PERMITS</u>
- A. THE CONTRACTOR S TIONS AND PAY ANY
- SHOP DRAWINGS
- A. SUBMIT MATERIAL LI EQUIPMENT TO THE THE CONTRACTOR DRAWINGS AND THE
- FLEXIBLE TYPE DUCT
- A. SHALL BE OF TWO EI OF A CORROSION RE COATED FABRIC WITH CONNECTORS SHALL SHALL HAVE A FLAM AND A SMOKE DEVEL
- B. USE OF FLEXIBLE DU THAN 14 LINEAR FEE
- C. CONTRACTOR SHALL COLLAPSE FLEXIBLE

ERIALS, DPOSAL, DR NO TO D OR IICA- R MPOSED L AND 25 MORE R	 5. DUCTWOF A. THE DU WITH T SHALL OTHER B. CONTR DAMPE WHICH TION, C C. ALL BR D. SMOOT BE USE E. ALL DU "SMACI F. ALL DU DIMENS FACE A G. ALL CO FIBERG FACING 6. DRAINAGE A. SHALL PITCH I SHALL DRAIN PUMPS 7. HVAC CON A. CONTR AND TH 8. ELECTRIC A. CONTR FOR LC 	EV CTWORK SH HE "SMACNA BE THE LOW WISE. ACTOR SHAL RS AND ACC PENETRATE DR AS OTHER ANCH DUCTS TH TURN RAD CT DIMENSIC D THROUGH CT JOINTS TH NCEALED DU SI ASS INSUL/ SI ASS INSUL/ ACTOR TO S IERMOSTATS AL	ALL BE CON "APPLICABI VELOCITY T L PROVIDE ESS PANELS S A HORIZO WISE SHOW OUT WHERE O BE SEALE RDS AND AC ONS SHOWN E CHANGEL TAINED. UCTWORK SI ATING BLAN NDENSATE) E 40 PVC PI LINES 1" IN UTED TO TH HANICAL CO ED.	DTES ISTRUCTED IN A E MANUALS, AI TYPE, UNLESS S AND INSTALL A S IN ANY AND A NTAL OR VERTI (N ON DRAWING OLUME DAMPE ORK OR TURNII FLOW EXCEEL D IN ACCORDAN CEPTED GOOD ARE NET INSID OSO LONG AS T HALL BE INSULA KET WITH ALUM PE WITH SOLVE 10'-0". CONDEN IE ROOF OR INE INTRACTOR. PE	ACCORDANCE LL DUCTWOR SPECIFIED PPROVED FIF LL DUCTWOR ICAL FIRE PAF GS. ICAL FIRE P	= К RE K RTI- IALL	10.	р. <u>МІ</u> А. В. С. D. F. 4 У	ISCELLANEOUS ALL EXTERIOR OPENINGS TO SEALED WITH A SEALANT OF LIFE, TO PREVENT INFILTRAT CONDITIONED SPACE. COORDINATE INSTALLATION ROOF PENETRATION. DO NOT SCALE THIS DRAWIN VERIFY ALL FIGURES, CONDI AT THE JOB SITE. THE MECHANICAL PLANS ARI MATIC AND ARE BASED ON O MENT. THEY ARE NOT INTENT IN ITS EXACT LOCATION, THE THE DETAILS OF THE EQUIPM SHALL VERIFY THE ACTUAL D MENT PROPOSED TO ENSUR FIT IN THE AVAILABLE SPACE THE FOLLOWING EQUIPMENT AN ENGRAVED BAKELITE NAM EQUIPMENT NUMBER AND FU UNITS, ROOFTOP UNITS, DUC BOILERS, AIR HANDLERS AND ALL NEW VALVES SHALL BE IN	PBE PROPERLY CAULKED AND HIGH QUALITY AND LONG ION OF OUTSIDE AIR INTO OF ALL ROOF FLASHING AT GF ALL ROOF FLASHING AT GF AR EXACT DIMENSIONS. TIONS, AND DIMENSIONS E INTENDED TO BE DIAGRAM- NE MANUFACTURE'S EQUIP- DED TO SHOW EVERY ITEM E EXACT DIMENSIONS, OR ALL MENT. THE CONTRACTOR DIMENSIONS OF THE EQUIP- DED TO SHOW EVERY ITEM E EXACT DIMENSIONS, OR ALL MENT. THE CONTRACTOR DIMENSIONS OF THE EQUIP- DED TO SHOW EVERY ITEM E THAT THE EQUIPMENT WILL SHALL BE INDENTIFIED WITH IEPLATE AS TO NAME, NCTION:CLASSROOM VENTILATION TLESS SPLIT UNITS, PUMPS, CABINET/UNIT HEATERS. IDENTIFIED WITH A BRASS CONTRACTOR SHALL PROVIDE	AUSE TREET 766 78
ERIALS, DPOSAL, DR NO TO O OR LICA-	 5. DUCTWOF A. THE DU WITH T SHALL OTHER B. CONTR DAMPE WHICH TION, C C. ALL BR D. SMOOT BE USE E. ALL DU "SMACI F. ALL DU DIMENS FACE A G. ALL CO FIBERG FACING 6. DRAINAGE A. SHALL PITCH I SHALL DRAIN PUMPS 7. HVAC CON A. CONTR AND TH 8. ELECTRIC A. CONTR FOR LC 	E PIPING (COI BE SCHEDUL BE SCHEDUL	ALL BE CON "APPLICABI VELOCITY T L PROVIDE ESS PANELS S A HORIZO WISE SHOW OUT WHERE O BE SEALE CONS SHOWN E CHANGED TAINED. UCTWORK SI ATING BLAN NDENSATE) E 40 PVC PI LINES 1" IN UTED TO TH HANICAL CO ED.	DTES ISTRUCTED IN A LE MANUALS, AI TYPE, UNLESS S AND INSTALL A S IN ANY AND A NTAL OR VERTI IN ON DRAWING OLUME DAMPE ORK OR TURNIE FLOW EXCEED D IN ACCORDAN CEPTED GOOD ARE NET INSID SO LONG AS T HALL BE INSULA KET WITH ALUM PE WITH SOLVE 10'-0". CONDEN IE ROOF OR IND INTRACTOR. PE	ACCORDANCE LL DUCTWOR SPECIFIED PPROVED FIF LL DUCTWOR ICAL FIRE PAF 3S. ICAL FIRE P	E K RE K RTI- IALL	10.	р. <u>Мі</u> А. В. С. D. F. 4 4 5 4	ISCELLANEOUS ALL EXTERIOR OPENINGS TO SEALED WITH A SEALANT OF LIFE, TO PREVENT INFILTRAT CONDITIONED SPACE. COORDINATE INSTALLATION ROOF PENETRATION. DO NOT SCALE THIS DRAWIN VERIFY ALL FIGURES, CONDI AT THE JOB SITE. THE MECHANICAL PLANS ARI MATIC AND ARE BASED ON O MENT. THEY ARE NOT INTENT IN ITS EXACT LOCATION, THE THE DETAILS OF THE EQUIPM SHALL VERIFY THE ACTUAL D MENT PROPOSED TO ENSUR FIT IN THE AVAILABLE SPACE THE FOLLOWING EQUIPMENT AN ENGRAVED BAKELITE NAM EQUIPMENT NUMBER AND FU UNITS, ROOFTOP UNITS, DUC BOILERS, AIR HANDLERS AND ALL NEW VALVES SHALL BE IN	PBE PROPERLY CAULKED AND HIGH QUALITY AND LONG ION OF OUTSIDE AIR INTO OF ALL ROOF FLASHING AT OF ALL ROOF FLASHING AT G FOR EXACT DIMENSIONS. TIONS, AND DIMENSIONS E INTENDED TO BE DIAGRAM- NE MANUFACTURE'S EQUIP- DED TO SHOW VERY ITEM E EXACT DIMENSIONS, OWNER: TO SHOW VERY ITEM E EXACT DIMENSIONS, OF THE EQUIP- DED TO SHOW VERY ITEM E EXACT DIMENSIONS, OF THE EQUIP- DED TO SHOW VERY ITEM SHALL BE INDENTIFIED WITH IEPLATE AS TO NAME, NCTION:CLASSROOM VENTILATION TLESS SPLIT UNITS, PUMPS, CABINET/UNIT HEATERS. IDENTIFIED WITH A BRASS CONTRACTOR SHALL VERYIME	AUSE TREET 766 78
ERIALS, DPOSAL, DR NO TO O OR IICA- IICA-	 5. DUCTWOF A. THE DU WITH T SHALL OTHER B. CONTR DAMPE WHICH TION, C C. ALL BR D. SMOOT BE USE E. ALL DU SMACT F. ALL DU DIMENS FACE A G. ALL CO FIBERC FACING 6. DRAINAGE A. SHALL PITCH I SHALL DRAIN PUMPS 7. HVAC CON A. CONTR AND TH 8. ELECTRIC A. CONTR FOR LC 	ACTOR SHALL ACTOR SHAL RS AND ACC PENETRATE RS AND ACC PENETRATE RS AND ACC PENETRATE RS AND ACC PENETRATE C DIMENSION TH TURN RAD TO THROUGH CT JOINTS TO NA" STANDAF CT DIMENSIO SIONS MAY B REA IS MAIN NCEALED DU SIONS MAY B SIONS MAY B	ALL BE CON " APPLICABI VELOCITY T L PROVIDE ESS PANELS S A HORIZO WISE SHOW S TO HAVE V IUS DUCTW OUT WHERE O BE SEALE RDS AND AC DNS SHOWN E CHANGEE TAINED. ICTWORK SI ATING BLAN NDENSATE) E 40 PVC PI LINES 1" IN UTED TO TH HANICAL CO ED. UPPLY AND	ISTRUCTED IN A LE MANUALS, AI TYPE, UNLESS S AND INSTALL A S IN ANY AND A NTAL OR VERTI (N ON DRAWING OLUME DAMPE ORK OR TURNII E FLOW EXCEED D IN ACCORDAN CEPTED GOOD ARE NET INSID O SO LONG AS T HALL BE INSULA KET WITH ALUM PE WITH SOLVE 10'-0". CONDEN IE ROOF OR INE INTRACTOR. PE	ACCORDANCE LL DUCTWOR SPECIFIED PPROVED FIR LL DUCTWOR ICAL FIRE PAR 3S. RS. NG VANES SH DS 150 CFM. NCE WITH PRACTICE. DE VALUES. HE NET FREE ATED WITH 1- /INUM FOIL	E K RE K RTI- IALL IALL	10.	. <u>МК</u> А. В. С. D. F. 4	ISCELLANEOUS ALL EXTERIOR OPENINGS TO SEALED WITH A SEALANT OF LIFE, TO PREVENT INFILTRAT CONDITIONED SPACE. COORDINATE INSTALLATION ROOF PENETRATION. DO NOT SCALE THIS DRAWIN VERIFY ALL FIGURES, CONDI AT THE JOB SITE. THE MECHANICAL PLANS ARI MATIC AND ARE BASED ON O MENT. THEY ARE NOT INTENI IN ITS EXACT LOCATION, THE THE DETAILS OF THE EQUIPN SHALL VERIFY THE ACTUAL D MENT PROPOSED TO ENSUR FIT IN THE AVAILABLE SPACE THE FOLLOWING EQUIPMENT AN ENGRAVED BAKELITE NAM EQUIPMENT NUMBER AND FU UNITS, ROOFTOP UNITS, DUC BOILERS, AIR HANDLERS AND ALL NEW VALVES SHALL BE IN	P BE PROPERLY CAULKED AND HIGH QUALITY AND LONG ION OF OUTSIDE AIR INTO OF ALL ROOF FLASHING AT G FOR EXACT DIMENSIONS. TIONS, AND DIMENSIONS E INTENDED TO BE DIAGRAM- NE MANUFACTURE'S EQUIP- DED TO SHOW EVERY ITEM EXACT DIMENSIONS, OR ALL MENT. THE CONTRACTOR DIMENSIONS OF THE EQUIP- DED TO SHOW EVERY ITEM EXACT DIMENSIONS, OR ALL MENT. THE CONTRACTOR DIMENSIONS OF THE EQUIP- DEL TO SHOW EVERY ITEM E THAT THE EQUIPMENT WILL SHALL BE INDENTIFIED WITH IEPLATE AS TO NAME, NCTION:CLASSROOM VENTILATION TLESS SPLIT UNITS, PUMPS, CABINET/UNIT HEATERS. IDENTIFIED WITH A BRASS CONTRACTOR SHALL PROVIDE	USE TREET 766 78 ALL RIGHTS RESER PERMISSION
ERIALS, DPOSAL, DR NO TO O OR LICA-	 A. THE DU WITH T SHALL OTHER B. CONTR DAMPE WHICH TION, C C. ALL BR D. SMOOT BE USE E. ALL DU "SMACI F. ALL DU DIMENS FACE A G. ALL CO FIBERG FACING 6. DRAINAGE A. SHALL PITCH I SHALL DRAIN PUMPS 7. HVAC CON A. CONTR AND TH 8. ELECTRIC A. CONTR FOR LC 	JCTWORK SH HE "SMACNA BE THE LOW WISE. ACTOR SHAL RS AND ACC PENETRATE DR AS OTHER ANCH DUCTS TH TURN RAD TO THROUGH CT JOINTS TO NA" STANDAF CT DIMENSIC SIONS MAY B REA IS MAIN NCEALED DU SLASS INSUL/ S. E PIPING (COI BE SCHEDUL HORIZONTAL BE FIELD RO BY THE MECH S AS REQUIRE MACTOR TO S HERMOSTATS	ALL BE CON "APPLICABI VELOCITY T L PROVIDE ESS PANELS S A HORIZO WISE SHOW S TO HAVE V IUS DUCTW OUT WHERE O BE SEALE RDS AND AC DNS SHOWN E CHANGEE TAINED. UCTWORK SI ATING BLAN NDENSATE) E 40 PVC PI LINES 1" IN UTED TO TH HANICAL CO ED. UPPLY AND	ISTRUCTED IN A LE MANUALS, AI TYPE, UNLESS S AND INSTALL A S IN ANY AND A NTAL OR VERTI (N ON DRAWING OLUME DAMPE ORK OR TURNII E FLOW EXCEEL D IN ACCORDAN CEPTED GOOD ARE NET INSID OSO LONG AS T HALL BE INSULA KET WITH ALUM PE WITH SOLVE 10'-0". CONDEN IE ROOF OR IND INTRACTOR. PE	ACCORDANCE LL DUCTWOR SPECIFIED PPROVED FIR LL DUCTWOR ICAL FIRE PAR 3S. IRS. NG VANES SH DS 150 CFM. NCE WITH PRACTICE. DE VALUES. HE NET FREE ATED WITH 1- /INUM FOIL	E K RE K RTI- IALL		А. В. С. D. Е. Т Е. Е. Е. Е. Е. Е. А. С.	 ALL EXTERIOR OPENINGS TO SEALED WITH A SEALANT OF LIFE, TO PREVENT INFILTRAT CONDITIONED SPACE. COORDINATE INSTALLATION ROOF PENETRATION. DO NOT SCALE THIS DRAWIN VERIFY ALL FIGURES, CONDI AT THE JOB SITE. THE MECHANICAL PLANS ARI MATIC AND ARE BASED ON O MENT. THEY ARE NOT INTENT IN ITS EXACT LOCATION, THE THE DETAILS OF THE EQUIPM SHALL VERIFY THE ACTUAL D MENT PROPOSED TO ENSUR FIT IN THE AVAILABLE SPACE THE FOLLOWING EQUIPMENT AN ENGRAVED BAKELITE NAM EQUIPMENT NUMBER AND FU UNITS, ROOFTOP UNITS, DUC BOILERS, AIR HANDLERS AND ALL NEW VALVES SHALL BE IN 	BE PROPERLY CAULKED AND THE CARRIAGE HC HIGH QUALITY AND LONG EBANON, NH 033 ION OF OUTSIDE AIR INTO COPYRIGHT @2019 BANWELL ARCHITECTS / NO REPRODUCTION WITHOUT PRIOR WRITTEN GF ALL ROOF FLASHING AT COPYRIGHT @2019 BANWELL ARCHITECTS / NO REPRODUCTION WITHOUT PRIOR WRITTEN GF OR EXACT DIMENSIONS. CONSULTANTS / DESIGN TEAM: TIONS, AND DIMENSIONS OWNER: TOWN OF WOLFEBORO P.O. BOX 629 WOLFEBORO, NH 03894 DED TO SHOW EVERY ITEM OWNER: EXACT DIMENSIONS, OR ALL ARCHITECT: BANWELL ARCHITECTS 6 SOUTH PARK STREET LEBANON, NH 03894 ARCHITECT: BANWELL ARCHITECTS 6 SOUTH PARK STREET LEBANONS OF THE EQUIP- E HAT THE EQUIPMENT WILL . . SHALL BE INDENTIFIED WITH EPLATE AS TO NAME, IEPLATE AS TO NAME, CION:CLASSROOM VENTILATION TLESS SPLIT UNITS, PUMPS, CABINET/UNIT HEATERS. IDENTIFIED WITH A BRASS CONTRACTOR SHALL PROVIDE	DUSE TREET 766 78 NLL RIGHTS RESER PERMISSION
OPOSAL, DR NO TO O OR IICA- R 	 B. CONTR DAMPE WHICH TION, C C. ALL BR D. SMOOT BE USE E. ALL DU "SMACI F. ALL DU DIMENS FACE A G. ALL CO FIBERG FACING 6. DRAINAGE A. SHALL PITCH I SHALL DRAIN PUMPS 7. HVAC CONTR A. CONTR AND TH 8. ELECTRIC A. CONTR FOR LC 	ACTOR SHAL RS AND ACC PENETRATE OR AS OTHER ANCH DUCTS TH TURN RAD TO THROUGH CT JOINTS TO NA" STANDAF CT DIMENSIC SIONS MAY B REA IS MAIN NCEALED DU SLASS INSUL/ S. E PIPING (COI BE SCHEDUL HORIZONTAL BE FIELD RO BY THE MECH S AS REQUIRE MITROLS ACTOR TO S HERMOSTATS	L PROVIDE ESS PANELS S A HORIZO WISE SHOW TO HAVE V IUS DUCTW OUT WHERE D BE SEALE RDS AND AC DNS SHOWN E CHANGED TAINED. UCTWORK SI ATING BLAN NDENSATE) E 40 PVC PI LINES 1" IN UTED TO TH HANICAL CO ED.	AND INSTALL A S IN ANY AND A NTAL OR VERTI 'N ON DRAWING OLUME DAMPE ORK OR TURNIE FLOW EXCEED D IN ACCORDAN CEPTED GOOD ARE NET INSID SO LONG AS T HALL BE INSULA KET WITH ALUM PE WITH SOLVE 10'-0". CONDEN IE ROOF OR IND NTRACTOR. PE	PPROVED FIR LL DUCTWOR ICAL FIRE PAR 3S. RS. NG VANES SH DS 150 CFM. NCE WITH PRACTICE. EVALUES. HE NET FREE ATED WITH 1- ATED WITH 1-	RE IK RTI- IALL		В. С. D. Е. Т Е. Г. А Е. С. С. С. С. С. С. С. С. С. С. С. С. С.	CONDITIONED SPACE. COORDINATE INSTALLATION ROOF PENETRATION. DO NOT SCALE THIS DRAWIN VERIFY ALL FIGURES, CONDI AT THE JOB SITE. THE MECHANICAL PLANS ARI MATIC AND ARE BASED ON O MENT. THEY ARE NOT INTENI IN ITS EXACT LOCATION, THE THE DETAILS OF THE EQUIPM SHALL VERIFY THE ACTUAL D MENT PROPOSED TO ENSUR FIT IN THE AVAILABLE SPACE THE FOLLOWING EQUIPMENT AN ENGRAVED BAKELITE NAM EQUIPMENT NUMBER AND FU UNITS, ROOFTOP UNITS, DUC BOILERS, AIR HANDLERS AND ALL NEW VALVES SHALL BE IN	OF ALL ROOF FLASHING AT G FOR EXACT DIMENSIONS. TIONS, AND DIMENSIONS E INTENDED TO BE DIAGRAM- NE MANUFACTURE'S EQUIP- DED TO SHOW EVERY ITEM E EXACT DIMENSIONS, OR ALL MENT. THE CONTRACTOR DIMENSIONS OF THE EQUIP- E THAT THE EQUIPMENT WILL . SHALL BE INDENTIFIED WITH IEPLATE AS TO NAME, NCTION:CLASSROOM VENTILATION TLESS SPLIT UNITS, PUMPS, CABINET/UNIT HEATERS. IDENTIFIED WITH A BRASS CONTRACTOR SHALL PROVIDE	ALL RIGHTS RESER PERMISSION
PPOSAL, DR NO TO O OR IICA- R 	 C. ALL BR D. SMOOT BE USE E. ALL DU "SMACH F. ALL DU DIMENS FACE A G. ALL CO FIBERG FACING 6. <u>DRAINAGE</u> A. SHALL PITCH I SHALL DRAIN PUMPS 7. <u>HVAC CON</u> A. CONTR AND TH 8. <u>ELECTRIC</u> A. CONTR FOR LC 	ANCH DUCTS ANCH DUCTS TH TURN RAD ED THROUGH CT JOINTS TO NA" STANDAF CT DIMENSIC SIONS MAY B REA IS MAIN NCEALED DL SLASS INSUL/ S. E PIPING (COI BE SCHEDUL HORIZONTAL BE FIELD RO BY THE MECH S AS REQUIRE MITROLS ACTOR TO S HERMOSTATS AL	WISE SHOW TO HAVE V UUS DUCTW OUT WHERE D BE SEALE RDS AND AC DNS SHOWN E CHANGED TAINED. UCTWORK SI ATING BLAN <u>NDENSATE)</u> E 40 PVC PI LINES 1" IN UTED TO TH HANICAL CO ED.	ORK OR TURNII ORK OR TURNII FLOW EXCEEL D IN ACCORDAN CEPTED GOOD ARE NET INSID SO LONG AS T HALL BE INSUL/ KET WITH ALUM PE WITH SOLVE 10'-0". CONDEN IE ROOF OR INE INTRACTOR. PE	ATED WITH 1- ATED	IALL 1/2"		C. D. E. 1 4 E F. 4	DO NOT SCALE THIS DRAWIN VERIFY ALL FIGURES, CONDI AT THE JOB SITE. THE MECHANICAL PLANS ARI MATIC AND ARE BASED ON O MENT. THEY ARE NOT INTENT IN ITS EXACT LOCATION, THE THE DETAILS OF THE EQUIPM SHALL VERIFY THE ACTUAL D MENT PROPOSED TO ENSUR FIT IN THE AVAILABLE SPACE THE FOLLOWING EQUIPMENT AN ENGRAVED BAKELITE NAM EQUIPMENT NUMBER AND FU UNITS, ROOFTOP UNITS, DUC BOILERS, AIR HANDLERS AND ALL NEW VALVES SHALL BE IN	G FOR EXACT DIMENSIONS. TIONS, AND DIMENSIONS E INTENDED TO BE DIAGRAM- NE MANUFACTURE'S EQUIP- DED TO SHOW EVERY ITEM : EXACT DIMENSIONS, OR ALL MENT. THE CONTRACTOR DIMENSIONS OF THE EQUIP- E THAT THE EQUIPMENT WILL SHALL BE INDENTIFIED WITH IEPLATE AS TO NAME, NCTION:CLASSROOM VENTILATION TLESS SPLIT UNITS, PUMPS, CABINET/UNIT HEATERS. IDENTIFIED WITH A BRASS CONTRACTOR SHALL PROVIDE	
DR NO TO O OR LICA-	C. ALL BR D. SMOOT BE USE E. ALL DU "SMACT F. ALL DU DIMENS FACE A G. ALL CO FIBERG FACING 6. DRAINAGE A. SHALL DRAIN PUMPS 7. HVAC COM A. CONTR AND TH 8. ELECTRIC A. CONTR	ANCH DUCTS TH TURN RAD ED THROUGH CT JOINTS TH NA" STANDAF CT DIMENSIC SIONS MAY B REA IS MAIN NCEALED DU CLASS INSULA S. E PIPING (COL BE SCHEDUL HORIZONTAL BE FIELD RO BY THE MECI S AS REQUIRE <u>NTROLS</u> ACTOR TO S HERMOSTATS AL	S TO HAVE V IUS DUCTW OUT WHERE O BE SEALE RDS AND AC DNS SHOWN E CHANGED TAINED. DCTWORK SI ATING BLAN NDENSATE) E 40 PVC PI LINES 1" IN UTED TO TH HANICAL CO ED.	OLUME DAMPE ORK OR TURNII E FLOW EXCEED D IN ACCORDAN CEPTED GOOD ARE NET INSID SO LONG AS T HALL BE INSUL/ KET WITH ALUM PE WITH SOLVE 10'-0". CONDEN IE ROOF OR IND INTRACTOR. PE	ERS. NG VANES SH DS 150 CFM. NCE WITH PRACTICE. DE VALUES. THE NET FREE ATED WITH 1- ATED WITH 1	IALL <u>-</u> 1/2"		D. E. 1 E F. 4 Y	AT THE JOB SITE. THE MECHANICAL PLANS ARI MATIC AND ARE BASED ON O MENT. THEY ARE NOT INTENI IN ITS EXACT LOCATION, THE THE DETAILS OF THE EQUIPM SHALL VERIFY THE ACTUAL D MENT PROPOSED TO ENSUR FIT IN THE AVAILABLE SPACE THE FOLLOWING EQUIPMENT AN ENGRAVED BAKELITE NAM EQUIPMENT NUMBER AND FU UNITS, ROOFTOP UNITS, DUC BOILERS, AIR HANDLERS AND ALL NEW VALVES SHALL BE IN	E INTENDED TO BE DIAGRAM- NE MANUFACTURE'S EQUIP- DED TO SHOW EVERY ITEM E EXACT DIMENSIONS, OR ALL MENT. THE CONTRACTOR DIMENSIONS OF THE EQUIP- E THAT THE EQUIPMENT WILL SHALL BE INDENTIFIED WITH IEPLATE AS TO NAME, NCTION:CLASSROOM VENTILATION TLESS SPLIT UNITS, PUMPS, CABINET/UNIT HEATERS.	
TO O OR LICA- R 	 D. SMOOT BE USE E. ALL DU "SMACH F. ALL DU DIMENS FACE A G. ALL CO FIBERG FACING 6. <u>DRAINAGE</u> A. SHALL PITCH I SHALL DRAIN PUMPS 7. <u>HVAC CON</u> A. CONTR AND TH 8. <u>ELECTRIC</u> A. CONTR FOR LC 	TH TURN RAD ED THROUGH CT JOINTS TO NA" STANDAF CT DIMENSIC SIONS MAY B REA IS MAIN NCEALED DL SLASS INSUL/ SLASS INSUL/ S	IUS DUCTW OUT WHERE O BE SEALE RDS AND AC DNS SHOWN E CHANGED TAINED. ICTWORK SI ATING BLAN <u>NDENSATE)</u> E 40 PVC PI LINES 1" IN UTED TO TH HANICAL CO ED.	ORK OR TURNII E FLOW EXCEED D IN ACCORDAN CEPTED GOOD ARE NET INSID SO LONG AS T HALL BE INSULA KET WITH ALUN PE WITH SOLVE 10'-0". CONDEN IE ROOF OR INE INTRACTOR. PR	NG VANES SH DS 150 CFM. NCE WITH PRACTICE. DE VALUES. THE NET FREE ATED WITH 1- ATED WITH 1- ATE	IALL <u>-</u> 1/2"		E. 1 / E F. /	MATIC AND ARE BASED ON O MENT. THEY ARE NOT INTENI IN ITS EXACT LOCATION, THE THE DETAILS OF THE EQUIPM SHALL VERIFY THE ACTUAL D MENT PROPOSED TO ENSUR FIT IN THE AVAILABLE SPACE THE FOLLOWING EQUIPMENT AN ENGRAVED BAKELITE NAM EQUIPMENT NUMBER AND FU UNITS, ROOFTOP UNITS, DUC BOILERS, AIR HANDLERS AND ALL NEW VALVES SHALL BE IN	NE MANUFACTURE'S EQUIP- DED TO SHOW EVERY ITEM EXACT DIMENSIONS, OR ALL MENT. THE CONTRACTOR DIMENSIONS OF THE EQUIP- E THAT THE EQUIPMENT WILL SHALL BE INDENTIFIED WITH IEPLATE AS TO NAME, NCTION:CLASSROOM VENTILATION TLESS SPLIT UNITS, PUMPS, CABINET/UNIT HEATERS.	
OOR LICA- R MPOSED L AND 25 MORE	 E. ALL DU "SMACI "SMACI F. ALL DU DIMENS FACE A G. ALL CO FIBERG FACING DRAINAGE A. SHALL PITCH I SHALL DRAIN PUMPS T. <u>HVAC CON</u> A. CONTR AND TH 8. <u>ELECTRIC</u> A. CONTR FOR LC 	CT JOINTS TO NA" STANDAF CT DIMENSIC SIONS MAY B REA IS MAIN NCEALED DL GLASS INSUL/ S. E PIPING (COI BE SCHEDUL HORIZONTAL BE FIELD RO BY THE MECI S AS REQUIRE NTROLS ACTOR TO S HERMOSTATS	D BE SEALE RDS AND AC DNS SHOWN E CHANGED TAINED. DCTWORK S ATING BLAN NDENSATE) E 40 PVC PI LINES 1" IN UTED TO TH HANICAL CO ED.	D IN ACCORDAI CEPTED GOOD ARE NET INSID SO LONG AS T HALL BE INSUL/ KET WITH ALUN PE WITH SOLVE 10'-0". CONDEN IE ROOF OR INE INTRACTOR. PE	NCE WITH PRACTICE. DE VALUES. THE NET FREE ATED WITH 1- /INUM FOIL ENT JOINTS. ISATE DRAINS DIRECT WAST	<u>-</u> 1/2"		E. 7 4 5 7 7 4	IN ITS EXACT LOCATION, THE THE DETAILS OF THE EQUIPM SHALL VERIFY THE ACTUAL D MENT PROPOSED TO ENSUR FIT IN THE AVAILABLE SPACE THE FOLLOWING EQUIPMENT AN ENGRAVED BAKELITE NAM EQUIPMENT NUMBER AND FU UNITS, ROOFTOP UNITS, DUC BOILERS, AIR HANDLERS AND ALL NEW VALVES SHALL BE IN	ARCHITECT: BANWELL ARCHITECTS BANWELL ARCHITECTS 6 SOUTH PARK STREET LEBANON, NH 03766 T: (603) 448–3778 F: (603) 443–5555 SHALL BE INDENTIFIED WITH IEPLATE AS TO NAME, NCTION:CLASSROOM VENTILATION TLESS SPLIT UNITS, PUMPS, CABINET/UNIT HEATERS. IDENTIFIED WITH A BRASS CONTRACTOR SHALL PROVIDE	
ICA- R MPOSED L AND 25 MORE	 F. ALL DU DIMENS FACE A G. ALL CO FIBERG FACING 6. DRAINAGE A. SHALL PITCH I SHALL DRAIN PUMPS 7. HVAC CON A. CONTR AND TH 8. ELECTRIC A. CONTR FOR LC 	CT DIMENSIC SIONS MAY B REA IS MAIN NCEALED DL SLASS INSUL/ S. E PIPING (COI BE SCHEDUL HORIZONTAL BE FIELD RO BY THE MECH S AS REQUIRE NTROLS ACTOR TO S HERMOSTATS	NS SHOWN E CHANGEE TAINED. ICTWORK SI ATING BLAN NDENSATE) E 40 PVC PI LINES 1" IN UTED TO TH HANICAL CO ED.	ARE NET INSID SO LONG AS T HALL BE INSULA KET WITH ALUN PE WITH SOLVE 10'-0". CONDEN IE ROOF OR IND INTRACTOR. PR	ENT JOINTS.	<u>-</u> 1/2"		E. 7 6 1 5 7 8	SHALL VERIFY THE ACTUAL I MENT PROPOSED TO ENSUR FIT IN THE AVAILABLE SPACE THE FOLLOWING EQUIPMENT AN ENGRAVED BAKELITE NAM EQUIPMENT NUMBER AND FU UNITS, ROOFTOP UNITS, DUC BOILERS, AIR HANDLERS AND ALL NEW VALVES SHALL BE IN	DIMENSIONS OF THE EQUIP- E THAT THE EQUIPMENT WILL THAT THE EQUIPMENT WILL SHALL BE INDENTIFIED WITH IEPLATE AS TO NAME, NCTION:CLASSROOM VENTILATION TLESS SPLIT UNITS, PUMPS, CABINET/UNIT HEATERS. IDENTIFIED WITH A BRASS CONTRACTOR SHALL PROVIDE	
ICA- R MPOSED L AND AND 25 MORE	 A. SHALL B. CONTR A. CONTR CONTR CONTR<td>SIONS MAY B REA IS MAIN NCEALED DL SLASS INSUL/ SLASS INS</td><td>E CHANGED TAINED. ICTWORK SI ATING BLAN <u>NDENSATE)</u> E 40 PVC PI LINES 1" IN UTED TO TH HANICAL CO ED.</td><td>PE WITH SOLVE 10'-0". CONDEN IE ROOF OR INE NTRACTOR. PE</td><td>ATED WITH 1- ATED WITH 1- ATED WITH 1- AINUM FOIL ENT JOINTS. ISATE DRAINS DIRECT WAST</td><td>1/2"</td><td></td><td>E. 1 / E U F. /</td><td>FIT IN THE AVAILABLE SPACE THE FOLLOWING EQUIPMENT AN ENGRAVED BAKELITE NAM EQUIPMENT NUMBER AND FU UNITS, ROOFTOP UNITS, DUC BOILERS, AIR HANDLERS AND ALL NEW VALVES SHALL BE IN</td><td>SHALL BE INDENTIFIED WITH IEPLATE AS TO NAME, NCTION:CLASSROOM VENTILATION TLESS SPLIT UNITS, PUMPS, CABINET/UNIT HEATERS. IDENTIFIED WITH A BRASS CONTRACTOR SHALL PROVIDE</td><td></td>	SIONS MAY B REA IS MAIN NCEALED DL SLASS INSUL/ SLASS INS	E CHANGED TAINED. ICTWORK SI ATING BLAN <u>NDENSATE)</u> E 40 PVC PI LINES 1" IN UTED TO TH HANICAL CO ED.	PE WITH SOLVE 10'-0". CONDEN IE ROOF OR INE NTRACTOR. PE	ATED WITH 1- ATED WITH 1- ATED WITH 1- AINUM FOIL ENT JOINTS. ISATE DRAINS DIRECT WAST	1/2"		E. 1 / E U F. /	FIT IN THE AVAILABLE SPACE THE FOLLOWING EQUIPMENT AN ENGRAVED BAKELITE NAM EQUIPMENT NUMBER AND FU UNITS, ROOFTOP UNITS, DUC BOILERS, AIR HANDLERS AND ALL NEW VALVES SHALL BE IN	SHALL BE INDENTIFIED WITH IEPLATE AS TO NAME, NCTION:CLASSROOM VENTILATION TLESS SPLIT UNITS, PUMPS, CABINET/UNIT HEATERS. IDENTIFIED WITH A BRASS CONTRACTOR SHALL PROVIDE	
ICA- R L AND 25 IORE	 G. ALL CO FIBERG FACING 6. DRAINAGE A. SHALL PITCH I SHALL DRAIN PUMPS 7. HVAC CON A. CONTR AND TH 8. ELECTRIC A. CONTR FOR LC 	NCEALED DU GLASS INSUL/ S. E PIPING (COI BE SCHEDUL HORIZONTAL BE FIELD RO BY THE MECI S AS REQUIRE <u>NTROLS</u> ACTOR TO S HERMOSTATS	NDENSATE) E 40 PVC PI LINES 1" IN UTED TO TH HANICAL CC ED.	HALL BE INSUL/ KET WITH ALUM PE WITH SOLVE 10'-0". CONDEN IE ROOF OR INE INTRACTOR. PR	ATED WITH 1- /INUM FOIL ENT JOINTS. ISATE DRAINS DIRECT WAST	1/2"		4 E E F. 4 A	AN ENGRAVED BAKELITE NAM EQUIPMENT NUMBER AND FU UNITS, ROOFTOP UNITS, DUC BOILERS, AIR HANDLERS AND ALL NEW VALVES SHALL BE IN	IEPLATE AS TO NAME, NCTION:CLASSROOM VENTILATION TLESS SPLIT UNITS, PUMPS, CABINET/UNIT HEATERS. IDENTIFIED WITH A BRASS	
R L AND 25 IORE	 <u>DRAINAGE</u> A. SHALL PITCH I SHALL DRAIN PUMPS <u>HVAC CON</u> A. CONTR AND TH <u>ELECTRIC</u> A. CONTR FOR LC 	E PIPING (COI BE SCHEDUL HORIZONTAL BE FIELD RO BY THE MECI S AS REQUIRE <u>NTROLS</u> ACTOR TO S HERMOSTATS	NDENSATE) E 40 PVC PI LINES 1" IN UTED TO TH HANICAL CC ED.	PE WITH SOLVE 10'-0". CONDEN IE ROOF OR INE INTRACTOR. PF	ENT JOINTS. ISATE DRAINS DIRECT WAST	2		F. / \ /	ALL NEW VALVES SHALL BE IN	IDENTIFIED WITH A BRASS	
//POSED L AND AND 25 IORE	A. SHALL PITCH I SHALL DRAIN PUMPS 7. <u>HVAC CON</u> A. CONTR AND TH 8. <u>ELECTRIC</u> A. CONTR FOR LC	BE SCHEDOL HORIZONTAL BE FIELD RO BY THE MECH AS REQUIRE <u>ITROLS</u> ACTOR TO S HERMOSTATS	LINES 1" IN UTED TO TH HANICAL CC	10'-0". CONDEN IE ROOF OR INE INTRACTOR. PF	ENT JOINTS. ISATE DRAINS DIRECT WAST ROVIDE COND	2		١	VALVE TAG. THE MECHANICAL A VALVE CHART AND LOCATIC	DN PLAN FOR ALL NEW	
MPOSED L AND AND 25 MORE	 <u>HVAC CON</u> A. CONTR AND TH <u>ELECTRIC</u> A. CONTR FOR LC 	NTROLS ACTOR TO S IERMOSTATS AL				RAINS G. TAG ALL DDC "UNT" ANI WASTE WITH TYPED DESCRIPT CONDENSATE SHALL PROVIDE A LOC POINTS.			TAG ALL DDC "UNT" AND "DX9 WITH TYPED DESCRIPTIVE TA SHALL PROVIDE A LOCATION	100" CONTROL POINTS G THE CONTROLS CONTRACTOR PLAN FOR ALL CONTROL	
L AND AND 25 IORE R	A. CONTR AND TH 8. <u>ELECTRIC</u> A. CONTR FOR LC	ACTOR TO S IERMOSTATS <u>AL</u>					11	ו דב			
AND 25 IORE	8. <u>ELECTRIC</u> A. CONTR FOR LC	<u>AL</u>	AS REQUIF	INSTALL ALL CO ED.	ONTROL WIRI	NG	11.	<u>. т</u> е А.	. THE HVAC SYSTEM SHALL BF		Ko
10RE R	A. CONTR FOR LC								ED BY AN INDEPENDENT AGE VISION OF A LICENSED PROF	ENCY, UNDER THE SUPER-	
3	FOR LC	ACTOR TO C	OORDINATE	WITH ELECTRI	CAL CONTRA	CTOR			TYPE WRITTEN REPORT SHA ARCHITECT/ENGINEER FOR F	LL BE SUBMITTED TO THE REVIEW AND APPROVAL.	JCKLE
र		CATION OF	WIRING FOR	EACH HVAC UN	NIT.		12	<u>.</u> CI	BALANCE AIR AND WATER S	SIEMS. 500 DEPOT ST RUMNEY, N.H. 03	'. 3266 302
	9. <u>PIPE SUPP</u>	ORTS					12.	. <u>oo</u> A.	. MATERIALS, EQUIPMENT AND	D INSTALLATION SHALL BE	192 365
	A. ALL PIP STRUC ⁻ THE US WILL NO	e shall be s fure in a ne e of wire o ot be permi	SUPPORTED AT AND WO R METAL ST TTED. SPAC	FROM THE BUI RKMANLIKE MA RAP TO SUPPC	ILDING NNER. DRT PIPES JPPORTS				GUARANTEED FOR A PERIOD OF ACCEPTANCE. DEFECTS V PERIOD SHALL BE CORRECT EXPENSE.	O OF ONE(1) YEAR FROM DATE WHICH APPEAR DURING THAT ED AT THIS CONTRACTOR'S BUCKLEY	27
	SHALL I PIPING	NOT EXCEED TO BE SUPP(8 FEET FOF ORTED EVE	R ALL PIPING. PL RY 4 FEET.	LASTIC			В.	. FOR THE SAME PERIOD, THE SHALL BE RESPONSIBLE FOF CAUSED BY DEFECTS IN WOI OR EQUIPMENT FURNISHED.	MECHANICAL CONTRACTOR ANY DAMAGE TO PREMISES RKMANSHIP OR IN THE WORK AND/OR INSTALLED BY HIM.	illy
			FA	N SCHE	EDULE			1		EXH. FAN SUPPLY FAN CLG. FAN	
CATION CFM	STATIC PRESS. (IN. W.G.)	ATTS HP	RPM	VOLTPHC	MANUFA	CTURER & M	ODEL		OPTIONS-ACCESSORIES		
CEILING 75	0.25	16.9	870	120-1-60	GREENHE	CK MODEL SP-AS	90	• BA • CE	EILING GRILLE • UALL CAP		
CEILING 125	0.25	54.2 —	1400	120-1-60	GREENHE	CK MODEL SP-A1	190	• BA • CE	CAUNDRAFT DAMPER	CH CONTROL REVISION DATE	COMMENTS
CEILING 150	0.25	54.2 ——	1400	120-1-60	GREENHE	CK MODEL SP-A1	190	• BA • CE	ACKDRAFT DAMPER	CH CONTROL	
ROOF 1500	1.5	1.0	1589	208-3-60	GREENHE	CK MODEL CUBE	E-141-10	RC PF PF	ROOF CURB ROVIDE START-STOP SWITCH FOR EF	-4 AND MAU-1 NEXT TO KH-1	
CEILING 150	0.25	54.2 —	1400	120-1-60	GREENHE	CK MODEL SP-A1	190	• BA		P STAT CONTROL	
			1000	100.1-			21104 -	• G	GRAVITY DAMPER INTERIO	CK WITH LV-1A&B	
vvALL 5,000	0.5	3/4	1263	120-1-60	GREENHE	eur mudel SBE-	-3H24-7	• W • W • E	WALL SLEEVE • MOTOR : WEATHERHOOD WITH INSECT SCREEI ELECTRICAL CONTRACTOR TO PROVI	SIDE GUARD N DE 1 HOUR MECHANICAL TIMER SWITCH. KEY PLAN & NORTH ARROW:	
DF TOWER 220	0.25	56.1 ——	900	120-1-60	GREENHE	CK MODELSP-A2	200	● BA ● IN	ACKDRAFT DAMPER • WALL CA	CONTROL SENSOR	
RO	OFTOP	AIR H		NG UN	IT SCI	HEDUL	E				
OUTSIDE E.S AIR (IN. 1	.P. W.G.) NOM.	GAS	HEATING MBH	МВН	FILTERS	ELECTI VPHCY.	RICAL	MOCP	MANUFACTURER & MODEL	OPTIONS-ACCESSORIES	SAFET
500 1.	0 6.0	PROPANE	150	120	STANDARD	208-3-60	30	45	CARRIER MODEL 48FCFM07A3A5-0A0A0	ROOF CURB ECONOMIZER CO2 CONTROL WEIGHT: 1000 LB. (INCLUDES CURB)	
500 1.	0 6.0	PROPANE	150	120	STANDARD	208-3-60	30	WEIGHT: 1000 LB. (INCLUDES CURB) WEIGHT: 1000 LB. (INCLUDES CURB) CARRIER MODEL 45 CARRIER MODEL 48FCFM07A3A5-0A0A0 WEIGHT: 1000 LB. (INCLUDES CURB) CO2 CONTROL WEIGHT: 1000 LB. (INCLUDES CURB)		ROOF CURB ECONOMIZER CO2 CONTROL WEIGHT: 1000 LD. (INCLUDES CURD) DESIGN DEVELOPME DRAWING TITLE:	NT
600 1.	0 7.5	PROPANE	180	148	STANDARD	208-3-60	40	50	CARRIER MODEL 48FCEM08A3A5-0A0A0	 WEIGHT: 1000 LD. (INCLUDES CURD) ROOF CURB ECONOMIZER CO2 CONTROL HVAC NOTES, SYMBOLS AND DET/ PROJECT NO:22-950 DATE: M/ 	AILS AY_31, 20:
										WEIGHT: 1200 LB. (INCLUDES CURB) SHEET NUMBER:	
	CATION CFM 2EILING 75 2EILING 125 2EILING 150 ROOF 150 COF 5,000 OF TOWER 220 OUTSIDE E.S AIR (IN. 100) 500 1. 500 1. 500 1. 500 1. 500 1. 500 1. 500 1. 500 1. 500 1. 500 1. 500 1.	CATION CFM STATIC PRESS. (IN. W.G.) W 2EILING 75 0.25 0 2EILING 125 0.25 0 2EILING 150 0.25 0 QOF 1500 0.5 0 2EILING 150 0.25 0 QOF 150 0.25 0 QOF 220 0.25 0 QUTSIDE E.S.P. 0 0 AIR (CFM) (IN. W.G.) NOM. TONS NOM. 500 1.0 6.0 0 500 1.0 6.0 0 600 1.0 7.5 0	CATION CFM STATIC PRESS. (IN. W.G.) WATTS HP 2EILING 75 0.25 16.9 — 2EILING 125 0.25 54.2 — 2EILING 150 0.25 54.2 — 2EILING 150 0.25 54.2 — 2EILING 150 0.25 54.2 — 200F 1500 1.5 — 1.0 2EILING 150 0.25 54.2 — 200F 1500 0.5 — 3/4 0.1 0.25 56.1 — — VALL 5,000 0.25 56.1 — 0.1 1 1 1 1 0.1 1 1 1 1 0.1 1 1 1 1 0.1 1 1 1 1 0.1 1 1 1 1 0.1 1.0	CATION CFM STATIC PRESS. (N. W.G.) MOTOR 2EILING 75 0.25 16.9 — 870 2EILING 125 0.25 54.2 — 1400 2EILING 150 0.25 54.2 — 1400 2EILING 150 0.25 54.2 — 1400 2EILING 150 0.25 54.2 — 1400 2OF 1500 1.5 — 1.0 1589 2EILING 150 0.25 54.2 — 1400 VALL 5.000 0.5 — 3/4 1263 0F TOWER 220 0.25 56.1 — 900 0UTSIDE E.S.P. COOLING MBH TOPE	CATION CFM STATIC PRESS (N. W.G.) WATTS HP RPM VOLTPHC 2EILING 75 0.25 16.9 570 120-160 2EILING 125 0.25 54.2 1400 120-160 2EILING 150 0.25 56.1 900 120-160 WALL 5.000 0.5 34 1263 120-160 VALL 5.000 0.5 34 1263 120-160 VOUTSIDE AR E.S.P. (N. W.G.) MOM GAS MEH MEH 500 1.0 6.0 PROPANE	CATION OFM STATIC PRESS. (N. W.G.) MOTOR HP MOTOR RPM MOTOR VOLTPHCY. MANUFA 28LING 75 0.25 16.9 — 670 120-1.80 GREENHE 28LING 125 0.25 54.2 — 1400 120-1.80 GREENHE 28LING 150 0.25 54.2 — 1400 120-1.80 GREENHE 28LING 150 0.25 54.2 — 1400 120-1.80 GREENHE 200F 1500 1.5 — 1.0 1589 208-3.60 GREENHE 200F 1500 0.25 54.2 — 1400 120-1.80 GREENHE 200F 1500 0.25 54.2 — 1400 120-1.80 GREENHE WALL 5.000 0.5 — 3.4 1283 120-1.60 GREENHE VOLTER 2.23 0.25 56.1 — 900 120-1.60 GREENHE S00	CATION OFM STATIC PRESS (N. W.G.) MOTOR WATTS MOTOR MANUFACTURER MANUFACTURER	FAN SCHEDULE CATION CFM STATIC PRESS (M. R.G.) MOTOR WATTS MOTOR MANUFACTURER & MODEL 28LING 75 0.25 16.8 970 120-148 GREENHECK MODEL SP-408 28LING 126 0.25 54.2 1400 120-148 GREENHECK MODEL SP-408 28LING 160 0.25 54.2 1400 120-148 GREENHECK MODEL SP-408 28LING 160 0.25 54.2 1400 120-148 GREENHECK MODEL SP-408 2007 1500 1.5 140 120-148 GREENHECK MODEL SP-408 2007 1500 1.5 140 120-148 GREENHECK MODEL SP-4188 2008 0.5 140 120-148 GREENHECK MODEL SP-4188 2010 0.5 140 120-148 GREENHECK MODEL SP-4188 2011 0.5 0.5 140 120-148 GREENHECK MODEL SP-4188	FAN SCHEDULE CATON CFM STATC (N. W.G.) WATTS HP RPM VOLTPHCY. MAUFACTURER & MODEL PENDEN 2EUNG 75 0.25 10.9 973 120-40 GREEN-ECK MODEL SP-400 10 2EUNG 75 0.25 54.2 1432 120-40 GREEN-ECK MODEL SP-400 10 2EUNG 100 0.25 64.2 1432 120-40 GREEN-ECK MODEL SP-400 10 2EUNG 100 0.25 64.2 1432 120-40 GREEN-ECK MODEL SP-400 10 200F 1000 0.25 64.2 1432 120-40 GREEN-ECK MODEL SP-400 10 200F 1000 0.25 64.1 933 120-40 GREEN-ECK MODEL SP-400 10 200F 0.03 0.5 120 120-40 GREEN-ECK MODEL SP-400 10 2010 0.25 66.1 933 <td< td=""><td>Construction Construction Construction Construction CATION OTM STATE MOTOR MANUFACTURER & MOOL OPTIONS-ACCESSORES CATION OTM STATE MOTOR MANUFACTURER & MOOL OPTIONS-ACCESSORES CUN2 73 6.26 MA 670 120.16 SCENEROL MOOL OPTIONS-ACCESSORES CUN2 73 6.26 MA 670 120.16 SCENEROL MOOL OPTIONS-ACCESSORES CUN2 73 6.26 MA 670 120.16 SCENEROL MOOL <</td><td></td></td<>	Construction Construction Construction Construction CATION OTM STATE MOTOR MANUFACTURER & MOOL OPTIONS-ACCESSORES CATION OTM STATE MOTOR MANUFACTURER & MOOL OPTIONS-ACCESSORES CUN2 73 6.26 MA 670 120.16 SCENEROL MOOL OPTIONS-ACCESSORES CUN2 73 6.26 MA 670 120.16 SCENEROL MOOL OPTIONS-ACCESSORES CUN2 73 6.26 MA 670 120.16 SCENEROL MOOL <	

		3							2							1
							HV	AC N(DTES							banwel
				5.	DUCTW	ORK						10.	MISCELLANEOUS			ARCHITECTS
RESPONSIBI FY A COMPLI OR IMPLIED.	E FOR ALL	. WORK, MA NG SYSTEN	TERIALS, /I		A. THE WITH SHAL OTHE	DUCTWO I THE "SM _L BE THE ERWISE.	ORK SHA ACNA" E LOW \	ALL BE CON APPLICABL /ELOCITY T	ISTRUCTED IN LE MANUALS, A TYPE, UNLESS S	ACCORDANG LL DUCTWO SPECIFIED	CE RK		A. ALL EXTERIOR OPENINGS T SEALED WITH A SEALANT O LIFE, TO PREVENT INFILTRA	O BE PROPERLY CAULKED AND F HIGH QUALITY AND LONG TION OF OUTSIDE AIR INTO		THE CARRIAGE HOUSE 6 SOUTH PARK STREET LEBANON, NH 03766 T: 603 448 3778
ERFORMED I DNAL MECHA BUILDING CO	N STRICT C NICAL COD DE 2018.	Complianc De 2018 and	E)		B. CON DAMI WHIC	TRACTOF PERS AN CH PENE ⁻	R SHALI D ACCE TRATES	_ PROVIDE ESS PANELS A HORIZO	AND INSTALL A 5 IN ANY AND A NTAL OR VERT	NPPROVED F ILL DUCTWC ICAL FIRE P/	IRE PRK ARTI-		B. COORDINATE INSTALLATION ROOF PENETRATION.	N OF ALL ROOF FLASHING AT		COPYRIGHT ©2019 BANWELL ARCHITECTS ALL RIGHTS RESERV NO REPRODUCTION WITHOUT PRIOR WRITTEN PERMISSION CONSULTANTS / DESIGN TEAM:
IALL, BEFOR	E SUBMITTI	ING ANY PR	OPOSAL,		TION	I, OR AS (OTHERV	VISE SHOW	N ON DRAWIN	GS.			VERIFY ALL FIGURES, COND	DITIONS, AND DIMENSIONS		OWNER:
SED SITE AN	D SHALL DE IAY EFFEC1	ETERMINE I T THE WOR	FOR K. NO		C. ALL E	BRANCH	DUCTS	TO HAVE V	OLUME DAMPE	RS.			AT THE JOB SITE.			TOWN OF WOLFEBORO P.O. BOX 629
MADE IF TH	IE CONTRA	CTOR FAIL	S TO		D. SMO				ORK OR TURN	NG VANES S DS 150 CEM	SHALL		MATIC AND ARE BASED ON (ONE MANUFACTURE'S EQUIP-	F	WOLFEBORO, NH 03894
ATERIALS S	SHALL BE A IEER OR AF	S SPECIFIE RCHITECT.	DOR		E. ALL I "SMA	DUCT JOI ACNA" ST.	INTS TC	BE SEALE	D IN ACCORDA	NCE WITH PRACTICE.			IN ITS EXACT LOCATION, TH THE DETAILS OF THE EQUIP SHALL VERIFY THE ACTUAL	NDED TO SHOW EVERY ITEM E EXACT DIMENSIONS, OR ALL MENT. THE CONTRACTOR DIMENSIONS OF THE EQUIP-		ARCHITECT: BANWELL ARCHITECTS 6 SOUTH PARK STREET LEBANON, NH 03766
					F. ALL I DIME FACE	DUCT DIM ENSIONS E AREA IS	/IENSIO MAY BE 5 MAINT	NS SHOWN E CHANGED FAINED.	ARE NET INSIE SO LONG AS 1	DE VALUES. THE NET FRE	E		MENT PROPOSED TO ENSU FIT IN THE AVAILABLE SPAC E. THE FOLLOWING EQUIPMEN	RE THAT THE EQUIPMENT WILL E. T SHALL BE INDENTIFIED WITH		T: (603) 448-3778 F: (603) 443-5555
ALL SECURE	E ALL PERM S.	IITS OR APF	PLICA-		G. ALL C FIBEI FACII	CONCEAL RGLASS NG.	.ED DU(INSULA	CTWORK SH TING BLANI	HALL BE INSUL KET WITH ALUN	ATED WITH MINUM FOIL	1-1/2"		AN ENGRAVED BAKELITE NA EQUIPMENT NUMBER AND FU UNITS, ROOFTOP UNITS, DUC BOILERS, AIR HANDLERS ANI	MEPLATE AS TO NAME, JNCTION:CLASSROOM VENTILATION CTLESS SPLIT UNITS, PUMPS, D CABINET/UNIT HEATERS.		
			DR	6.	DRAINA	<u>.ge pipin</u>	IG (CON	DENSATE)					F. ALL NEW VALVES SHALL BE I VALVE TAG. THE MECHANICA A VALVE CHART AND LOCATI	NDENTIFIED WITH A BRASS AL CONTRACTOR SHALL PROVIDE ON PLAN FOR ALL NEW		
	SINEER FO	OF SHOP	∖∟.		A. SHAL	L BE SCI	HEDULE	E 40 PVC PI		ENT JOINTS.	NS		VALVES.			
SHALL BE C		BELED.			SHAL DRAI PUM	L BE FIE IN BY THE PS AS RE	LD ROL E MECH EQUIREI	JTED TO TH IANICAL CO D.	E ROOF OR INI	DIRECT WAS	STE IDENSATE		G. TAG ALL DDC "UNT" AND "DX WITH TYPED DESCRIPTIVE TA SHALL PROVIDE A LOCATION POINTS.	9100" CONTROL POINTS AG THE CONTROLS CONTRACTOR N PLAN FOR ALL CONTROL		
	AL CONSTR		MPOSED	7.	HVAC C	ONTROL	<u>s</u>					11.	TESTING AND BALANCING			
ISTANT MET A MINERIAL	AL SUPPOF BASE. FLEX	RTING SPIR XIBLE DUC ⁻	AL AND F		A. CON AND	TRACTOF THERMO	R TO SU STATS	IPPLY AND AS REQUIR	INSTALL ALL C ED.	ONTROL WI	RING		A. THE HVAC SYSTEM SHALL B	E TESTED AND AND BALANC-		
BE LISTED B SPREAD RA	Y U.L., CLAS TING NOT E	SS 1 DUCTS EXCEEDING	6, AND 9 25	~									ED BY AN INDEPENDENT AG	ENCY, UNDER THE SUPER- FESSIONAL ENGINEER. A SEALED		
OPED RATING	G NOT EXCE	EEDING 50.		8.	ELECIR	RICAL							TYPE WRITTEN REPORT SH	ALL BE SUBMITTED TO THE		CHARLES P. BUCKLEY
TWORK SHA PER RUN	LL BE LIMI	TED TO NO	MORE		A. CON FOR	I RACTOF	≺ TO CC N OF W	OURDINATE	WITH ELECTR EACH HVAC U	ICAL CONTR NIT.	ACTOR		BALANCE AIR AND WATER S	SYSTEMS.		FRUFESSIONAL ENGINEER 500 DEPOT ST.
BE CAREFUL	SO AS NO	Τ ΤΟ ΚΙΝΚ (DR	0		PPOPTO						12.	GUARANTEE			КОМИЕІ, N.H. U3266 TEL.(603)786-9992 FAY (603)786-2925
UCT.				9.									A. MATERIALS, EQUIPMENT AN	ID INSTALLATION SHALL BE		FAX.(603)786-2365
					A. ALL P STRU	JCTURE I		UPPORTED	RKMANLIKE MA	ANNER.			OF ACCEPTANCE, DEFECTS	WHICH APPEAR DURING THAT		
					THE U WILL	USE OF V		R METAL ST	RAP TO SUPPO	JPPORTS			EXPENSE.	TED AT THIS CONTRACTOR S		BUCKLEY
					SHAL PIPIN	.L NOT EX IG TO BE	KCEED 8 SUPPO	8 FEET FOR RTED EVER	R ALL PIPING. P RY 4 FEET.	LASTIC			B. FOR THE SAME PERIOD, THE	E MECHANICAL CONTRACTOR		B VICENS
													SHALL BE RESPONSIBLE FO CAUSED BY DEFECTS IN WC	RKMANSHIP OR IN THE WORK		TONAL EN TUR
															D	
								FA	N SCHI	EDULE	E			EF SF CF EXH. FAN SUPPLY FAN CLG. FAN		
EQUIPMEN ⁻ NO.	SERV	1CE L	OCATION	CFM	STATIC PRESS.	WATTS	ЦР	MOTOR		MANUF	ACTURER & MOI	DEL	OPTIONS-ACCESSORIES			
EF-1	TOILET RC	ром	CEILING	75	(IN. W.G.) 0.25	16.9	пг 	870	120-1-60	GREEN	IECK MODEL SP-A90)	BACKDRAFT DAMPER WALL CAP CEILING GRILLE LIGHT SWI	TCH CONTROL		
EF-2	TOILET RC	ООМ	CEILING	125	0.25	54.2		1400	120-1-60	GREEN	HECK MODEL SP-A190	90	BACKDRAFT DAMPER WALL CAP CEILING GRILLE LIGHT SWI			REVISION DATE COMMENTS
EF-3	TOILET RC	ООМ	CEILING	150	0.25	54.2		1400	120-1-60	GREEN	HECK MODEL SP-A190	90	BACKDRAFT DAMPER WALL CAP			
EF-4	KITCHEN	HOOD	ROOF	1500	1.5		1.0	1589	208-3-60	GREEN	HECK MODEL CUBE-1	141-10	CEILING GRILLE LIGHT SWI ROOF CURB PROVIDE START-STOP SWITCH FOR E	F-4 AND MAU-1 NEXT TO KH-1		
EF-5	ELEV. MAC	CH. RM.	CEILING	150	0.25	54.2		1400	120-1-60	GREEN	HECK MODEL SP-A190	90	PROVIDE UNIT MOUNTED DISCONNEC BACKDRAFT DAMPER WALL C CEILING GRULE TUEDH	CT. AP OSTAT CONTROL	С	
EF-6	APPAR/	ATUS	WALL	5,000	0.5		3/4	1263	120-1-60	GREEN	HECK MODEL SBE-3F	H24-7	GRAVITY DAMPER INTERL	OCK WITH LV-1A&B		
	BAYS												WEATHERHOOD WITH INSECT SCREI ELECTRICAL CONTRACTOR TO PROV	EN /IDE 1 HOUR MECHANICAL TIMER SWITCH.		KEY PLAN & NORTH ARROW:
EF-7	HOSE TO	OWER TOP	OF TOWER	220	0.25	56.1		900	120-1-60	GREEN	HECK MODELSP-A200	0	BACKDRAFT DAMPER WALL CARRENT OF MARKE GRILLE HUMIDIT	AP TY CONTROL SENSOR		
L	1								<u> </u>					/		
				ROO	FTOP	AIR	H/	NDLI	NG UN	IT SC	HEDULE			RTU		
EQUIPMENT	SERVICE	SUPPLY Air	OUTSIDE Air	E.S.P. (IN. W.G	.) NOM	NG	_{AS} I	HEATING MRH	MRH	FILTERS	ELECTRI	ICAL	MANUFACTURER & MODEL	OPTIONS-ACCESSORIES	В	WOLFEBORO PUBLIC SAFETY
		(CFM)	(CFM)		TONS	5 TY	/PE	INPUT	OUTPUT		VPHCY.	MCA M				SOUTH MAIN ST. WOLFEBORO, NH
RTU-1	LEVEL 2	2400	500	1.0	6.0	PRC	DPANE	150	120	STANDARD	208-3-60	30 4	45 CARRIER MODEL 48FCFM07A3A5-0A0A0	 ECONOMIZER CO2 CONTROL WEIGHT: 1000 LB. (INCLUDES CURB) 		ISSUED: DESIGN DEVELOPMENT
RTU-2	LEVEL 2	2400	500	1.0	6.0	PRO	DPANE	150	120	STANDARD	208-3-60	30 4	45 CARRIER MODEL 48FCFM07A3A5-0A0A0	 ROOF CURB ECONOMIZER CO2 CONTROL WEIGHT: 1000 LB. (INCLUDED CURP) 		DRAWING TITLE:
RTIL3		3000	600	1.0	7 5			180	148	STANIDAPD	208-3-60	40		ROOF CURB ECONOMIZER		HVAC NOTES , SYMBOLS AND DETAILS
NOTES:					TURN AIR		JF ANE	IOU	140		∠∪o-3 - 0U	40	48FCEM08A3A5-0A0A0	 CO2 CONTROL WEIGHT: 1200 LB. (INCLUDES CURB) 		PROJECT NO:22-950 DATE: MAY 31, 2023 SHEET NUMBER:
<u></u>	OF EAC	H RTU.				.										

| 7

8

6

					ENE	RGY	RECO	VERY	V	ENT	FILATION UN	IIT
EQUIPMENT	SEDVICE	SUPPLY AIR	EXH. AIR	SUPPLY	EXHAUST	WEIGHT	FILTERS	ELECTRICA	LECTRICAL		MANUFACTURER & MODEL	
NO.	SERVICE	(CFM)	(CFM)	E.S.P. (IN. W.G.)	E.S.P. (IN. W.G.)	(LBS.)		VPHCY.	МСА	MOCP		
ERV-1 (ROOFTOP) UNIT	LOCKER ROOMS - DECONTAMINATION	1050	1250	0.5"	0.5"	600	2" MERV 8	208-1-60	7.7	15	RENEWAIRE MDOEL HE1.5JRTV-D15SS-DANTF-L	CURB SCECM F
NOTES:												

DUCTLESS SPLIT AIR CONDITIONING SYSTEM SCHEDULE REFRIGERANT ELECTRICAL OUTDOOR COOLING HEATING CFM STATIC SEER-COP UNIT CAPACITY CAPACITY PRESS. (EFFICIENCY) (BTU/HR.) (BTU/HR.) IN. W.G. INDOOR UNIT MANUFACTURER & MODEL PIPING LIQUID SUCTION MCA MAX VOLT.-PH.-CY. (BTU/HR.) (BTU/HR.) DSHP-1 28,400 28,600 31.5 40 208/1/60 MITSUBISHI MODEL MXZ-3C30NAHZ4-U1 17 - 3.6 DSW-1A 14,100 14,400 514 MITSUBISHI MODEL MSZ-FS18NA-U1 1/4" 1/2" 208/1/60 9,900 9,600 454 DSW-1B 1/4" 208/1/60 3/8" MITSUBISHI MODEL MSZ-FS12NA-U1 208/1/60 MITSUBISHI MODEL MXZ-3C30NAHZ4-U1 DSHP-2 28,400 28,600 17 - 3.6 8,600 437 8,500 DSW-2A 1/4" 3/8" 208/1/60 MITSUBISHI MODEL MSZ-FS09NA-U1 8,600 437 DSW-2B 8,500 1/4" 3/8" 208/1/60 MITSUBISHI MODEL MSZ-FS09NA-U1 DSW-2C 11,400 11,300 454 1/4" 208/1/60 1/2" MITSUBISHI MODEL MSZ-FS12NA-U1 208/1/60 MITSUBISHI MODEL MXZ-3C30NAHZ4-U1 DSHP-3 28,400 28,600 17 - 3.6 DSW-3A 12,000 12,000 514 1/4" 1/2" 208/1/60 MITSUBISHI MODEL MSZ-FS15NA-U1 DSW-3B 12,000 12,000 405 1/4" 1/2" 208/1/60 MITSUBISHI MODEL SLZ-KF15NA TH NOTES:

	HOT WATER COIL SCHEDULE													
FOUIPMENT	SIZE	HEATING	HOT WATER T	EMPERATURES	HOT WATER	AIR FLOW	MANUFACTURER	OPTIONS-A						
NO.		(BTU)	SUPPLY (DEG. F.)	RETURN (DEG. F.)	FLOW RATE (GPM)	(CFM)								
HWC-1	18x12	45,000	180	160	4.0	825	GREENHECK HOT WATER DUCT COIL	REFERENCE PIPING DET/						
<u>NOTES:</u>														

6

| 8

4

| 3

12

	ERV
OPTIONS-ACCESSORIES	
REMOTE POTENTIOMETER SPEED C	

						H	OT W		ER U	NIT H	EATE	R SCHE	EDULE		
EQUIPMENT	BTU/HR	CFM		MOTO	२		WATER			AIR	MOUNTING	THROW	MANUFACTU	RER & MODEL	OPTIONS-ACCESSORIES
NO.	CAPACITY		HP	RPM	VPHCY.	GPM	ENT. °F	△ P.	ENT. °F	LVG. °F	HEIGHT	(FT.)			
UH-1A.B.C.D	60,200	1340	1/8	1625	120-1-60	6.0	180	0.6	70	107	16'-0"	33	MODINE MODEL	HC 86	 SUSPEND FROM STRUCTURE MOUNT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. REFERENCE DETAIL ON DRAWING M110.
UH-2A,B,C	30,900	730	1/12	1550	120-1-60	3.0	180	0.6	70	107	10'-0"	30	MODINE MODEL	HC 47	 SUSPEND FROM STRUCTURE MOUNT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. REFERENCE DETAIL ON DRAWING M110.
NOTES:															
NOTES:									PUMF	• SCH	EDULI	E			
NOTES: EQUIPMENT NO.	SERVI	CE		LOCATION	GPM	TOT/ (H	AL HEAD HEAD)		PUMF	SCH MOTOR	EDULI	E	ACTURER & MODEL	0	PTIONS-ACCESSORIES
NOTES: EQUIPMENT NO.	SERVIO HOT WATER HI	CE EATING SYS	STEM	LOCATION MECH. PH 123.1	GPM 1 29	TOT/ (H	AL HEAD HEAD) 50	HP 1.0	PUMF RPM	• SCH MOTOR VOLTPHC 208-3-60	EDULI	MANUF B & G MODEL BG XL 65-130	ACTURER & MODEL 6_104309 - B&G ECOCIRC	OI • REFERENCE DETAIL OI • 2" IPS ISOLATORS • CONSTANT PRESSURE • PROVIDE STATIC PRES	PTIONS-ACCESSORIES N DWG. M106 • LEAD-LAG PUMP CONTROL • E.C. TO PROVIDE DISCONNECT

						H	от W			NIT HE		R SCHI	EDULE		
QUIPMENT NO.	BTU/HR CAPACITY	CFM	HP	MOTOR RPM	? VPHCY.	GPM	WATER ENT. °F	△ P.	ENT. °F	AIR LVG. °F	Mounting Height	THROW (FT.)	MANUFACTUF	ER & MODEL	OPTIONS-ACCESSORIES
⊣-1A.B.C.D	60,200	1340	1/8	1625	120-1-60	6.0	180	0.6	70	107	16'-0"	33	MODINE MODEL	IC 86	 SUSPEND FROM STRUCTURE MOUNT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. REFERENCE DETAIL ON DRAWING M110.
-1-2A,B,C	30,900	730	1/12	1550	120-1-60	3.0	180	0.6	70	107	10'-0"	30	MODINE MODEL	IC 47	 SUSPEND FROM STRUCTURE MOUNT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. REFERENCE DETAIL ON DRAWING M110.
NOTES:			<u> </u>				·								·
NOTES:									>UMF	• SCHE	EDULI	E			
	SERVIC	<u> </u>		LOCATION	GPM	TOT	AL HEAD		>UMP	SCHE MOTOR	EDULI	E	FACTURER & MODEL	0	PTIONS-ACCESSORIES
NOTES: NOTES: NO. P-1 H	SERVIC	E EATING SYS	J STEM	LOCATION MECH. PH1 123.1	GPM	TOT, (†	AL HEAD HEAD TEAD) 50	нр 1.0	PUMF RPM	SCHI MOTOR VOLTPHCY 208-3-60	EDULI (. FLA 4.6	E MANUF B & G MODEL BO XL 65-130	FACTURER & MODEL G_104309 - B&G ECOCIRC	OF REFERENCE DETAIL OF 2" IPS ISOLATORS CONSTANT PRESSURE PROVIDE STATIC PRES	PTIONS-ACCESSORIES N DWG. M106 • LEAD-LAG PUMP CONTROL • E.C. TO PROVIDE DISCONNECT CONTROL SUIDE SWITCH

			PRO	PANE	FIRE	ED HO	T WA	FER BOILER	SYSTEM SCHEDULE
EQUIPMENT	SERVICE	GROSS	GROSS	EXHAUST	INTAKE	ELE	CTRICAL	MANUFACTURER & MODEL	
NO.		OUTPUT (MBH)	INPUT (MBH)	VENT	AIR	AMPS	VOLTPHCY	<i>.</i>	OPTIONS-ACCESSORIES
B-1	WOLFBORO FIRE DEPARTMENT	264	285	3"	3"	FLA = 5 AMPS MOCP = 15 AMPS	120-1-60	• LOCHINVAR MODEL WHB285N	 FULLY MODULATING BURNER 5:1 TURNDOWN. LOW WATER CUT-OFF W/BURNER CONTROL HARNESS. SMART SYSTEM DIGITAL OPERATING CONTROL. OUTDOOR RESET. PUMP CONTROL. BOILER SEQUENCING CONTROL. BOILER CIRCULATING ECM 0-10 PUMP. WALL MOUNT BRACKET. 4" PVC CONCENTRIC VENT TERMINATION THROUGH ROOF. VITROGATE 300 BACNET/MODBUS GATEWAY (QTY. OF 1)
B-2	WOLFBORO FIRE DEPARTMENT	264	285	3"	3"	FLA = 5 AMPS MOCP = 15 AMPS	120-1-60	• LOCHINVAR MODEL WHB285N	 FULLY MODULATING BURNER 5:1 TURNDOWN. LOW WATER CUT-OFF W/BURNER CONTROL HARNESS. SMART SYSTEM DIGITAL OPERATING CONTROL. OUTDOOR RESET. PUMP CONTROL. BOILER SEQUENCING CONTROL. BOILER CIRCULATING ECM 0-10 PUMP. WALL MOUNT BRACKET. 4" PVC CONCENTRIC VENT TERMINATION THROUGH ROOF. VITROGATE 300 BACNET/MODBUS GATEWAY (QTY. OF 1)

						MAK	(E-UP	AIR	UN	IT SCHEDULE	
EQUIPMENT	SERVICE	AIR FLOW	E.S.P.	INPUT	OUTPUT	GAS	ELECTR	RICAL		MANUFACTURER & MODEL	OPTIONS-ACCESSORIES
NO.		(CFM)	(IN. W.G.)	(MBH)	(MBH)	CONN. SIZE	V-PH-CY	MCA	моср		
MAU-1	KITCHEN HOOD (ROOF MTD.)	1500	1.0	131.7	121.2	3/4"	208-3-60	14.7	20	GREENHECK MODEL DGX-108-H12-II	 PROVIDE MODULATING GAS BURNER CONTROLLED BY SUPPLY DISCHARGE AIR SENSOR. WITH ROOF CURB WEIGHT: 900 LB. (INCLUDES CURB)
<u>NOTES:</u>	1. UNIT CON 2. TEMPERA 3. SUPPLY F 4. SUPPLY F 5. HEATING I 6. DIRTY FIL 7. FREEZE P 8. WEATHER	TROLS -KFCC- TURE CONTRO AN VFD BY FAC AN CONTROL - INLET SENSOR TER SWITCH ROTECTION ROTECTION	1 CONTROL P DL - DISCHARG CTORY CONSTANT V	ANEL SE CONTROL OLUME LTER			9. SUP 10. OU 11. FM	PLY AIR TDOOR J COMPLI	FILTERS AIR INLET ANT	- 2" MERV 8 T DAMPER - LOW LEAKAGE	

					KIT	CHEN EXH	HAUST H	DOD SC	CHEDU	JLE		KH
EQUIPMENT NO.	SERVICE	EXHAUST AIR (CFM)	LENGTH (FT.)	WIDTH (FT.)	HEIGHT (FT.)	MATERIAL OF CONSTRUCTION	FILTERS	LAMPS	ELECTRIC	CAL AMPS	MANUFACTURER & MODEL	OPTIONS-ACCESSORIES
KH-1	KITCHEN 208	1500	5'-0"	3'-3"	24"	430 STAINLESS STEEL	S.S. BAFFLE FILTERS	(2) INCAND./CFL	120-1-60	5	GREENHECK MODEL GHEW	PROVIDE WITH COMPLETE ANSUL FIRE PROTECTION SYSTEM.
<u>NOTES:</u>	1. MOUNTING HEIGHT 2. FACTORY MOUNTE 3. EXTERNAL SUPPLY	- 80" OFF FINIS D EXHAUST CO PLENUM AND (HED FLOOR. LLAR. COLLAR.									

4. PROVIDE GAS SHUT-OFF VALVE - TO BE INSTALLED BY PLUMBING CONTRACTOR.

5

4

2

| 1

F	With the second secon
E	EPB
D	CHARLES P. BUCKLEY PROFESSIONAL ENGINEER 500 DEPOT ST. RUMNEY, N.H. 03266 TEL.(603)786-9992 FAX.(603)786-2365 CHARLES P. BUCKLEY NO. 09198 N.H. LIC. NO. 09198
C	REVISION DATE COMMENTS Image:
	KEY PLAN & NORTH ARROW:
В	PROJECT: WOLFEBORO PUBLIC SAFETY BUILDING SOUTH MAIN ST. WOLFEBORO, NH
	ISSUED: DESIGN DEVELOPMENT DRAWING TITLE: HVAC SCHEDULES PROJECT NO:22-950 DATE: MAY 31, 2023 SHEET NUMBER:
A	M102

5	

DETAILS OF THE LOW VELOCITY DUCT LAYOUT ND SCALE

_	_

DU	от со	NSTRUCTION MI	NIMUM SHEET	METAL 1	THICKNESSES		
		RECT	ANGULAR DUCTS	5			
MAXIMUM SIZ (INCHES)	ZE	STEEL (MINIMUM THICKNE	ESS, NOMINAL)	ALUMINUM (MINIMUM THICKNESS, NOMINAL)			
THROUGH 12 13 THROUGH 31 THROUGH 55 THROUGH OVER 84	2 30 54 84	0.022 INCH (26 0.028 INCH (24 0.034 INCH (22 0.040 INCH (20 0.052 INCH (18	GAGE, GALV.) GAGE, GALV.) GAGE, GALV.) GAGE, GALV.) GAGE, GALV.)	0.020 INCH (NO. 24 B&S GAGE) 0.025 INCH (NO. 22 B&S GAGE) 0.032 INCH (NO. 20 B&S GAGE) 0.040 INCH (NO. 18 B&S GAGE) 0.051 INCH (NO. 16 B&S GAGE)			
		R	OUND DUCTS				
	SPI	RAL SEAM DUCT	LONGITUDINAL SEA	M DUCT	FITTINGS		
MAXIMUM SIZE (INCHES)	(MINIMUN	STEEL 1 THICKNESS, NOMINAL)	STEEL (MINIMUM THICKNESS	, NOMINAL)	STEEL (MINIMUM THICKNESS, NOMINAL)		
THROUGH 12 13 THROUGH 18 19 THROUGH 28 29 THROUGH 36 37 THROUGH 52	0.019 0.022 0.028 0.034 0.040	NCH (28 GAGE, GALV.) NCH (26 GAGE, GALV.) NCH (24 GAGE, GALV.) NCH (22 GAGE, GALV.) NCH (20 GAGE, GALV.)	0.022 INCH (26 GA 0.028 INCH (24 GA 0.034 INCH (22 GA 0.040 INCH (20 GA 0.052 INCH (18 GA	GE, GALV.) GE, GALV.) GE, GALV.) GE, GALV.) GE, GALV.)	0.022 INCH (26 GAGE, GALV.) 0.028 INCH (24 GAGE, GALV.) 0.034 INCH (22 GAGE, GALV.) 0.040 INCH (20 GAGE, GALV.) 0.052 INCH (18 GAGE, GALV.)		

HALE DUCT	PAIR AT 10)' SPACING	PAIR AT 8	'SPACING	PAIR AT 5	5' SPACING	PAIR AT 4	4' SPACING
PERIMETER RANGE	STRAP	WIRE/ROD	STRAP	WIRE/ROD	STRAP	WIRE/ROD	STRAP	WIRE/ROD
P/2 < 30'	1"x 22 GA.	10 GA. (0.135")	1"x 22 GA.	10 GA. (0.135")	1"x 22 GA.	12 GA. (0.106")	1"x 22 GA.	12 GA. (0.106"
P/2 < 72"	1"x 18 GA.	3/8"	1"x 20 GA.	1/4"	1"x 22 GA.	1/4"	1"x 22 GA.	1/4"
P/2 < 96"	1"x 16 GA.	3/8"	1"x 18 GA.	3/8"	1"x 20 GA.	3/8"	1"x 22 GA.	1/4"
P/2 < 120"	1-1/2"x 16 GA.	1/2"	1"x 16 GA.	3/8"	1"x 18 GA.	3/8"	1"x 20 GA.	1/4"
P/2 < 168"	1-1/2"x 16 GA.	1/2"	1"x 16 GA.	1/2"	1"x 16 GA.	3/8"	1"x 18 GA.	3/8"
P/2 < 192"	-	1/2"	1-1/2"x 16 GA.	1/2"	1"x 16 GA.	3/8"	1"x 16 GA.	3/8"
Secure To Str As Recommer Galvanized Iro Gurn Under D Rivet Or Bolt	ructure Above nded By SMAC n Strap Or A uct Minimum To Underside	NA. Iuminum Stro 1". Of Duct.—						1

Sheet Metal Screw, Rivet Or Bolt To Both Sides Of Duct.

DUCT HANGER DETAIL NOT TO SCALE

NOT	то	SCAL

| 7

5	4	3	2

PLUMBING NOTES

- SANITARY/STORM DRAINAGE AND VENT PIPING 5.
 - A. ABOVE GRADE: -2" AND BELOW: SCH. 40 PVC WITH SOLVEN JOINTS.
 - -3" AND ABOVE: SCH. 40 PVC WITH SOLVEN JOINTS.
 - B. BELOW GRADE: SCH. 40 PVC WITH SOLVENT JOINTS.
 - C. PVC PIPING SHALL NOT BE USED IN AIR PLENU AND SHALL NOT CROSS FIRE RATED WALLS, CE OR FLOORS.
 - D. DRAINAGE PIPING SHALL BE RUN AS STRAIGHT AND SHALL HAVE LONG TURN FITTINGS.
 - E. DRAINAGE PIPING 3" SIZE AND SMALLER SHALL UNIFORM GRADE OF AT LEAST 1/4" PER FOOT, LARGER THAN 3" SHALL BE RUN AT A GRADE O THAN 1/8" PER FOOT.
 - F. ALL VENT PIPING SHALL BE SLOPED TO DRAIN FIXTURES.
 - G. CONTRACTOR SHALL BE RESPONSIBLE FOR TH FLASHING OF THE VENT PIPING RUN THROUGH
- 6. ALL STUB-INS AND/OR SLAB OR WALL PENETRATI PER INTERNATIONAL PLUMBING CODE. ALL PIPING PENETRATIONS OF BUILDING FOUNDATIONS OR F SHALL BE SLEEVED.
- 7. <u>PIPE SUPPORTS</u>
 - A. ABOVE GRADE ALL PIPE SHALL BE SUPPORTED FROM THE BUI STRUCTURE IN A NEAT AND WORKMANLIKE MA THE USE OF WIRE AND PERFORMED METAL TO PIPES WILL NOT BE PERMITTED. SPACING OF F SHALL BE AS SPECIFIED IN THE INTERNATIONA PLUMBING CODE.

	PLUMBING FIXTURE SCHEDULE												
FIXTURE NO.	DESCRIPTION	MANUFACTURER & CAT. NO.	TRAP	PIPIN S/W	G CONNEC	CTIONS C.W.	H.W.	REMARKS					
TD-1	TRENCH DRAIN	ACO POWER DRAIN MODEL S200K (8" WIDTH)		4"	2"			WITH GRATEOR EQUAL BY WATTS					
WC-1	ELONGATED TOILET	AMERICAN STANDARD MODEL 3451.160	INTEGRAL	4"	2"			FLUSH VALVE 6065.161002OPEN FRONT SEAT 5901.100					
WC-2	ELONGATED TOILET (BARRIER FREE)	AMERICAN STANDARD MODEL 3043.102	INTEGRAL	4"	2"			 FLUSH VALVE 6065.161002 OPEN FRONT SEAT 5901.100 					
URN-1	AMERICAN STANDARD WASHBROOK UNIVERSAL URINAL	AMERICAN STANDARD MODEL 6590.001EC	2"	2"	1 1/2"	3/4"		• FLUSH VALVE: AMER. STD. MODEL 6045.051.002					
LAV-1	AMERICAN STANDARD DROP-IN COUNTERTOP LAV	AMERICAN STANDARD MODEL 0476.028	1 1/2"	1 1/2"	1 1/2"	1/2"	1/2"	 FAUCET: DELTA MODEL 515LF-HDF ADA INSULATION: PLUMBEREX HANDY-SHIELD, OR EQUAL. 					
LAV-2	AMERICAN STANDARD LUCERNE WALL-HUNG LAVATORY	AMERICAN STANDARD MODEL 0355.012	1 1/2"	1 1/2"	1 1/2"	1/2"	1/2"	 FAUCET: DELTA MODEL 515LF-HDF ADA INSULATION: PLUMBEREX HANDY-SHIELD, OR EQUAL. 					
SINK-1	ELKAY 19\"X19" STAINELSS STEEL SINK	ELKAY MODEL #LR-1919	1 1/2"	1 1/2"	1 1/2"	1/2"	1/2"	FAUCET: ELKAY MODEL LK-2423-BH					
SINK-2	ELKAY 33"X21 "X6]" DOUBLE BOWL SINK	ELKAY MODEL CR3321	1 1/2"	1 1/2"	1 1/2"	1/2"	1/2"	 FAUCET: ELKAY MODEL LK-2423-BH WITH SPRAY 					
JS-1	FIAT 24"X24" MOP SERVICE BASIN	FIAT MODEL MSB-2424	3"	3"	1 1/2"	1/2"	1/2"	FAUCET: FIAT MODEL #830-AA WALL GUARD AND MOP HANGER					
FD-1	FLOOR DRAIN	ZURN EZ-5	2"	2"	1 1/2"								
FD-2	FLOOR DRAIN	ZURN EZ-5	3"	3"	1 1/2"								
HB-1	JAY R. SMITH NON-FREEZE WALL HYDRANT LINE-GARD BOX TYPE W/ INTEGRAL VACUUM BREAKER	JAY R. SMITH MODEL 5509				3/4"							
SH-1	STERLING FIBERGLASS SHOWER STALL 3'X3'	STERLING	2"	2"	1 1/2"	1/2"	1/2"	• DELTA MONITOR 14 SERIES SINGLE FUNCTION PRESSURE BALANCED SHOWER FAUCET WITH SHOWER HEAD, HAND SHOWER, RAIL, HOSE AND ROUGH-IN VALVES MODEL DSS-LAHARA-1401SS					
SH-2	STERLING FIBERGLASS SHOWER STALL 3'X3' ADA	STERLING	2"	2"	1 1/2"	1/2"	1/2"	• DELTA MONITOR 14 SERIES SINGLE FUNCTION PRESSURE BALANCED SHOWER FAUCET WITH SHOWER HEAD, HAND SHOWER, RAIL, HOSE AND ROUGH-IN VALVES MODEL DSS-LAHARA-1401SS					
DF-1	ELKAY WALL MOUNT BI-LEVEL VERSATILE ADA COOLER - FILTERED AND REFRIGERATED	ELKAY MODEL LZSTLG8LC	1 1/2"	1 1/2"	1 1/2"	1/2"		• ELECTRIC: 5 A. AT 120V./1PH.					
NOTE:	1. ALL PLUMBING FIXTURES SHALL BE AS SPECIFIED, OR APPROVED	EQUAL.	- -		-								

SCOPE OF WORK

- A. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIALS, AND LABOR TO SATISFY A COMPLETE WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED.
- B. ALL WORK IS TO BE PERFORMED IN STRICT COMPLIANCE WITH THE 2018 INTERNATIONAL PLUMBING CODE.
- C. THE CONTRACTOR SHALL, BEFORE SUBMITTING ANY PROPOSAL, EXAMINE THE PROPOSED SITE AND SHALL DETERMINE FOR HIMSELF THE CONDITIONS THAT MAY EFFECT THE WORK. NO ALLOWANCE SHALL BE MADE IF THE CONTRACTOR FAILS TO MAKE SUCH EXAMINATIONS.
- D. ALL EQUIPMENT AND MATERIALS SHALL BE AS SPECIFIED OR "APPROVED EQUAL" BY ENGINEER OR ARCHITECT.

2. PERMITS

- A. THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICA-TIONS AND PAY ANY AND ALL FEES.
- 3. SHOP DRAWINGS
 - A. SUBMIT MATERIAL LIST AND SHOP DRAWINGS FOR MAJOR EQUIPMENT/FIXTURES TO THE ARCHITECT OR ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL SUBMIT SIX SETS OF SHOP DRAWINGS AND THEY SHALL BE CLEARLY LABELED.
- 4. DOMESTIC WATER SUPPLY PIPING
- A. UNDERGROUND: • WATER SERVICE ENTRANCE: DUCTILE IRON PIPE AND FITTINGS. • FEED TO TANKER TRUCK FILLS: POLYETHYLENE.
- B. ABOVE GROUND: PROVIDE TYPE "L" HARD DRAWN COPPER TUBING WITH 125 PSI SOLDER OR PRO-PRESS FITTINHGS, COPPER OR BRASS FITTINGS. ALL SOLDER TO BE "NO LEAD" TYPE.
- C. ALL COLD & HOT WATER PIPING TO BE INSULATED WITH 1" SNAP-ON FIBERGLASS INSULATION & PVC JACKET.
- D. VALVE AND TAG ALL SHUT-OFF VALVES.
- E. PROVIDE SHUT-OFF VALVES ON ALL MAJOR DOM. WATER BRANCH PIPING.

3

			<u>PLU</u>
	7. B. BELOW GRADE	<u>SYMBOL</u>	DESC
	EARTH SHALL BE EXCAVATED TO A MINIMUM DEPTH WITH AN EVEN SURFACE TO INSURE SOLID BEARING OF PIPE FOR ITS		SOIL OR WASTE PIPE
NT	ENTIRE LENGTH. -INTERIOR: THE PIPE SHALL BE INSTALLED (UNLESS OTHER-		SOIL OR WASTE PIPE (
NT	WISE SPECIFIED) A MINIMUM OF 4 INCHES BELOW THE BOTTOM OF THE SLAB AND SHALL NOT BE		VENT PIPE (V)
	IN ANY DIRECT CONTACT WITH THE CONCRETE AT ANY POINT.		COLD WATER PIPE (CW
	-EXTERIOR: THE WATER PIPE SHALL HAVE A MINIMUM OF 60" OF COVER AND THE SANITARY WASTE PIPE		HOT WATER PIPE (HW)
	SHALL HAVE A MINIMUM OF 42" OF COVER.		• HOT WATER PIPE (140
JM CEILINGS	8 MISCELLANEOUS		HOT WATER RETURN (
JEIEINOG,			
T AS POSSIBLE	ROOF PENETRATION.		
L RUN AT A , AND PIPING DF NO LESS	B. DO NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS. VERIFY ALL FIGURES, CONDITIONS, AND DIMENSIONS AT THE JOB SITE.		
I BACK TO	C. THE PLUMBING PLANS ARE INTENDED TO BE DIAGRAMATIC MATIC AND ARE BASED ON ONE MANUFACTURE'S EQUIP- MENT. THEY ARE NOT INTENDED TO SHOW EVERY ITEM		
	IN ITS EXACT LOCATION, THE EXACT DIMENSIONS, OR ALL THE DETAILS OF THE EQUIPMENT. THE CONTRACTOR SHALL VERIFY THE ACTUAL DIMENSIONS OF THE EQUIP-		GENE
H THE ROOF.	MENT PROPOSED TO ENSURE THAT THE EQUIPMENT WILL FIT IN THE AVAILABLE SPACE.		1. GAS PIPING H WITH INTERNA STORAGE AND
ION TO BE			EDITION).
FOOTINGS	A. PLUMBING SYSTEMS SHALL BE FLOW AND PRESSURE TESTED & DISINFECTED IN ACCORDANCE WITH STANDARD PRACTICE AND THE INTERNATIONAL PLUMBING CODE.		2. UNDERGROU ASTM STAND/ SOLVENT CEM TUBING SHAL STRUCTURE.
	10. <u>GUARANTEE</u>		3. GAS PIPING I GRADE SHALI HAVE THREAD
JILDING ANNER. O SUPPORT	A. MATERIALS, EQUIPMENT AND INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE(1) YEAR FROM DATE		COVERED WI EQUAL) TO PF
PIPE SUPPORTS AL	OF ACCEPTANCE. DEFECTS WHICH APPEAR DURING THAT PERIOD SHALL BE CORRECTED AT THIS CONTRACTOR'S EXPENSE.		4. GAS PIPING I SCHEDULE 40 JOINTS (ASME
	B. FOR THE SAME PERIOD, THE PLUMBING CONTRACTOR		5. JOINTS BETW APPROVED AI
	CAUSED BY DEFECTS IN WORKMANSHIP OR IN THE WORK		6. UNDERGROU

		PF	ROPA	NE FI	RED	WATER HEA	TER SCHEDULE
ITEM NO.	CAPACITY	RECOVERY @100 DEG. F. RISE	BTU PER HR.	GAS CONN.	WATER CONN.	MANUFACTURER & MODEL	REMARKS
WH-1	60 GAL.	153 GPH	120,000	3/4"	1-1/2"	A.O.SMITH MODEL BTH-120 Mxi	 PROVIDE EXPANSION TANK PROVIDE RECIRC. PUMP PROVIDE MIXING VALVE WATER HEATER WATER TEMP. = 140 DEGR. F. PROVIDE 3" (50' MAX) PVC VENT AND COMB. AIR PIPES TO CONCENTRIC ROOF OR WALL TERMINATION.
WH-2	60 GAL.	153 GPH	120,000	3/4"	1-1/2"	A.O.SMITH MODEL BTH-120 Mxi	 PROVIDE EXPANSION TANK PROVIDE RECIRC. PUMP PROVIDE MIXING VALVE WATER HEATER WATER TEMP. = 140 DEGR. F. PROVIDE 3" (50' MAX) PVC VENT AND COMB. AIR PIPES TO CONCENTRIC ROOF OR WALL TERMINATION.

5

OR EQUIPMENT FURNISHED AND/OR INSTALLED BY HIM.

| 2

PLUMBING SYMBOLS

CRIPTION	SYMBOL	DESCRIPTION
(BELOW GROUND)	Θ	NEW TO EXISTING
(ABOVE GROUND)	-0	BALL VALVE
	ø	CHECK VALVE
V)	_	FIXTURE ISOLATION VALVE
)	VTR	VENT THROUGH ROOF
)°F)	G	PROPANE GAS PIPING
(HWR)	CA	COMPRESSED AIR PIPING

GENERAL LP PIPING NOTES

1. GAS PIPING HAS BEEN DESIGNED AND SHALL BE INSTALLED IN ACCORDANCE WITH INTERNATIONAL FUEL GAS CODE 2018 AND NFPA 58 - STANDARD FOR THE STORAGE AND HANDLING OF LIQUIFIED PETROLEUM GASES (LATEST

2. UNDERGROUND GAS PIPING SHALL PLASTIC PIPING IN ACCORDANCE WITH ASTM STANDARDS D2513 AND D2517. FITTINGS SHALL PLASTIC AND HAVE SOLVENT CEMENT JOINTS (I.F.G.C. CHAPTER 4). PLASTIC PIPE AND TUBING SHALL NOT BE INSTALLED ABOVE GROUND OR INSIDE OF THE STRUCTURE.

3. GAS PIPING INSTALLED ON THE EXTERIOR OF THE BUILDING AND ABOVE GRADE SHALL BE SCHEDULE 40 BLACK STEEL PIPE (ASTM A53,A106) AND HAVE THREADED JOINTS (ASME B1.20.1). THE BLACK STEEL PIPE SHALL BE COVERED WITH 2 COATS OF A WATERPROOF ASPHALTIC COATING (OR EQUAL) TO PREVENT CORROSION OF THE PIPE .

4. GAS PIPING INSTALLED ON THE INTERIOR OF THE BUILDING SHALL BE SCHEDULE 40 BLACK STEEL PIPE (ASTM A53, A106) AND HAVE THREADED JOINTS (ASME B1.20.1).

5. JOINTS BETWEEN DIFFERENT PIPING MATERIALS SHALL BE MADE WITH APPROVED ADAPTER FITTINGS.

6. UNDERGROUND GAS PIPING SHALL BE INSTALLED TO ALLOW PROPER MAINTENANCE AND TO PROTECT AGAINST CONTACT OR DAMAGE RESULTING FROM PROXIMITY TO OTHER STRUCTURES. UNDERGROUND PLASTIC PIPING SHALL BE INSTALLED WITH SUFFICIENT CLEARANCE FROM ANY HEAT SOURCE.

7. UNDERGROUND PIPING SYSTEMS SHALL BE INSTALLED A MINIMUM DEPTH OF 18 INCHES BELOW GRADE.

8. AN INSULATED COPPER TRACER WIRE OR OTHER APPROVED CONDUCTOR SHALL BE INSTALLED ADJACENT TO UNDERGROUND NONMETALLIC (PLASTIC) PIPING. ACCESS SHALL BE PROVIDED TO THE TRACER WIRE OR THE TRACER WIRE SHALL TERMINATE ABOVE GROUND AT EACH END OF THE NONMETALLIC GAS PPING. THE TRACER WIRE SHALL NOT BE LESS THAN 18 AWG AND THE INSULATION TYPE SHALL NOT BE LESS THAN 18 AWG AND THE INSULATION TYPE SHALL BE SUITABLE FOR BURIAL.

9. ALL PENETRATIONS OF GAS PIPING THROUGH SLABS AND FOUNDATION WALLS SHALL BE SLEEVED WITH A PIPE SLEEVE.

10. PROPANE GAS SUPPLIER SHALL PROVIDE ALL NECESSARY REGULATORS, PRESSURE GAUGES, VALVES AND LEVEL GAUGES AT PROPANE TANKS.

11. GAS SUPPLY PRESSURE = 11 INCHES WATER GAUGE.

12. GAS PIPE SIZING IS BASED ON TABLE 402.4(24) IN THE INTERNATIONAL FUEL GAS CODE. A MAXIMUM PIPE LENGTH OF 200 FT. HAS BEEN USED FOR THIS DESIGN.

| 1

F	With the second stream of the second stre
E	CHARLES P. BUCKLEY PROFESSIONAL ENGINEER 500 DEPOT ST. RUMNEY, N.H. 03266 TEL.(603)786-9992 FAX.(603)786-2365
D	N.H. LIC. NO. 09198
С	REVISION DATE COMMENTS I I I
В	PROJECT: WOLFEBORO PUBLIC SAFETY BUILDING SOUTH MAIN ST. WOLFEBORO, NH ISSUED: DESIGN DEVELOPMENT DRAWING TITLE: PLUMBING NOTES ,
Α	SYMBOLS AND DETAILS PROJECT NO:22-950 DATE: MAY 31, 2023 SHEET NUMBER: P101













| 7

6

5	4	3	2







CONCENTRIC FLAT ROOF

(TYPICAL FOR RINNAI INSTANTANEOUS WATER HEATER)



-	8	7 6	
		ELECTRICAL SYMBOLS	
		ABBREVIATIONS	
		AC ABOVE COUNTER AFF ABOVE FINISHED FLOOR.	
		CB CIRCUIT BREAKER. EM EMERGENCY LIGHT FIXTURE	1. SCOPE OF WORK:
		GFI GROUND FAULT CIRCUIT INTERRUPTER. GND GROUND.	A. CONTRACTOR OF KNOWLED
		NEC NATIONAL ELECTRICAL CODE. NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOC	B. FURNISH ALL SHOWN, NOTE
		NIC NOT IN CONTRACT. NL NIGHT LIGHT.	MATERIALS, I SHALL BE NO
F		PH PHOTOELECTRIC SWITCH REC RECONNECT TO EXISTING CIRCUIT	APPROVED IT NATIONAL EL
		UON UNLESS OTHERWISE NOTED. WP WEATHER PROOF.	C. ALL WORK TO
		WIRING	2. <u>PERMITS:</u>
		WIRING CONCEALED IN CEILING OR WALLS; SLASH MARKS	A. SECURE AND
		CONDUCTOR SIZE AS MARKED; #12 AWG UON.	3. <u>SHOP DRAWINGS:</u> A. SUBMIT MATE
		LOW VOLTAGE LIGHTING CONTROL WIRING	SHALL BEAR REVIEWED AN
		SWITCH OUTLET: MOUNTED 48" AFE LION: SINGLE POLE LION:	4. <u>CONDUITS:</u>
		LOWER CASE LETTER, WHEN PRESENT, INDICATES OUTLETS CONTROLLED.	A. THE TYPE OF CIRCUITS, UN
E		* ABBREVIATIONS FOR SWITCH OUTLETS 3 3-WAY SWITCH B BURNER SWITCH	APPLICATION OUTDOORS BRANCH CIR(
		M MOTOR RATED	BRANCH CIRC SUPPLY TO I UNDERGROUN
		LETTER, WHEN PRESENT, INDICATES OUTLETS CONTROLLED.	5. <u>WIRE:</u>
		OS OCCUPANCY SENSOR - WALL MOUNT (LOW VOLTAGE AS SHOWN) ACUITY CONTROLS SENSOR SWITCH, OR EQUAL.	A. WIRE STALL I SHALL BE #1 BE NEW AND
		OSD OCCUPANCY SENSOR - WALL MOUNT - DIMMER (LOW VOLTAGE AS SHOWN) ACUITY CONTROLS SENSOR SWITCH, OR EQUAL.	• GENERAL W
		OSIC OCCUPANCY SENSOR - CEILING MOUNT (LOW VOLTAGE AS SHOWN) ACUITY CONTROLS SENSOR SWITCH, OR EQUAL.	B. WIRE CONNEC "LOCK-LITE"
			6. <u>LIGHTING:</u> A. LIGHTING FIXT
		LIGHTING	THE ELECTRIC AND LAMPS.
D		O LED LIGHT FIXTURE - RECESSED, SURFACE, OR PENDENT MOUNTED	7. <u>WIRE DEVICES:</u>
		RECESSED MOUNTED CEILING FIXTURE	A. RECEPTACI 5362 (MOU
		HOH WALL FIXTURE	B. SWITCHES
		SURFACE OR PENDANT MOUNT EXIT SIGN FIXTURE; ARROWS INDICATE REQUIRED SIGN ARROWS.	8. <u>SAFETY SWITCH</u>
		BATTERY POWERED EMERGENCY LIGHTING FIXTURE	A. PROVIDE S DRAWINGS HORSEPOW
		COMBINATION EMERGENCY LIGHTING FIXTURE ANG EXIT SIGN	9. <u>BOXES:</u>
		A INDICATES FIXTURE TYPE; SEE SCHEDULE.	A. OUTLET BO KNOCKOUT
		RECEPTACLES	10. <u>INSTALLATION:</u>
с		GROUNDED DUPLEX RECEPTACLE (NEMA 5–20R); MOUNTED	A. ALL ELECT OPERATINC
		GROUNDED QUADRUPLEX RECEPTACLE (NEMA 5–20R);	B. THE CONTE REQUIRED
		$ \begin{array}{c} \blacksquare \\ \blacksquare $	FIRE RATE REMAIN TH
		SPECIAL PURPOSE RECEPTACLE; LETTER INDICATES TYPE;	C. THE FOLLO AS TO NAU
		AFF UON.	AND THE AND TH
		PANELS AND MISC.	E. ELECTRICAL PROGRESSI
		LIGHT OR POWER PANEL	11. <u>GUARANTEE:</u> A. MATERIALS
		HISED SAFETY (DISCONNECT) SWITCH	ONE (1) YE PERIOD SH
BG.rvt		JUNCTION BOX	B. FOR THE S DAMAGE T EQUIPMENT
		MOTOR	12. <u>FINALLY:</u>
0-19_1		KEY PAD (PUNCH LOCK) BY OWNER'S CONTRACTOR.	A. IT IS THE AND THAT DRAWINGS
ntrall		TELEPHONE OUTLET - WALL - MOUNTED 18" AFF, UON. PROVIDE 2X4 OUTLET BOX IN WALL WITH COVER PLATE AND CATE	
sna_Ce		WIRING BACK TO MECH/IT/ELEC. FINAL WIRING & PUNCH PANELS BY IT CONTR.	
Are		PROVIDE 2X4 OUTLET BOX IN WALL WITH COVER PLATE AND CAT6 WIRING BACK TO MECH/IT/ELEC. FINAL WIRING & PUNCH PANELS BY IT CONTR.	
		TELDATA OUTLET - WALL - MOUNTED 18" AFF, UON. PROVIDE 2X4 OUTLET BOX IN WALL WITH COVER PLATE AND CAT6 WIRING BACK TO MECH/IT/ELEC. FINAL WIRING & PUNCH PANELS BY IT CONTR	
		ACCESS POINT - ROUTERS BY OTHERS - ELECTRICAL CONTRACTOR TO PROVIDE CAT6 WIRING BACK TO MECH/IT/ELEC.	
I			

| 7

ELECTRICAL NOTES

OR SHALL VISIT SITE PRIOR TO BIDDING. BIDS SHALL SERVE AS EVIDENCE EDGE OF EXISTING CONDITIONS. FIELD VERIFY ALL ELECTRICAL EQUIPMENT.

L LABOR, MATERIALS, EQUIPMENT AND TOOLS TO PERFORM ELECTRICAL WORK TED OR SCHEDULED FOR A COMPLETE AND FINISHED INSTALLATION.

PRODUCTS AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, NEW AND SUCH AS APPEAR ON THE UNDERWRITERS LABORATORIES LIST OF ITEMS AND SHALL BE SIZED IN CONFORMITY WITH REQUIREMENTS OF THE ELECTRICAL CODE AND OTHER APPLICABLE CODES, WHICHEVER ARE MORE

TO BE IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE 2020 AND ES.

ND PAY FOR ALL REQUIRED PERMITS AND INSPECTION CERTIFICATES.

TERIAL LIST AND SHOP DRAWINGS FOR MAJOR EQUIPMENT TO THE ARCHITECT VAL. SUBMITTALS SHALL BE IN ACCORDANCE WITH GENERAL CONDITIONS AND AR STAMP OF THE GENERAL CONTRACTOR SHOWING THAT HE HAS AND APPROVED THEM. LACK OF SUCH CONTRACTOR'S APPROVAL WILL BE R REJECTION WITHOUT REVIEW BY THE ARCHITECT OR ENGINEER.

OF CONDUIT SHALL BE AS FOLLOWS FOR ALL FEEDERS AND DISTRIBUTION UNLESS OTHERWISE SPECIFIED.

IRCUITS (EXPOSED) IRCUITS (CONCEALED) DISTRIBUTION PANEL JND SERVICE ENTRANCE GALV. RIGID STEEL OR EMT W/ W.P. FITTINGS EMT МС EMT PVC – SCHEDULE 80

BE SINGLE CONDUCTOR COPPER WITH 600 VOLT INSULATION. MINIMUM WIRE SIZE #12 EXCEPT #14 MAY BE USED FOR CONTROL. ALL WIRE AND CABLE SHALL ND SHALL BE BROUGHT TO THE SITE IN UNBROKEN PACKAGES.

TYPE OF CONDUIT

WIRING SHALL BE THW OR THHN (ALL CONDUCTORS SHALL BE COPPER).

ECTORS SHALL BE EQUAL BY SCOTCHLOCK FOR #6 AND SMALLER AND T & B " FOR #6 AND LARGER.

XTURES AND LAMPS (UNLESS NOTED OTHERWISE) SHALL BE FURNISHED BY RICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL INSTALL ALL FIXTURES

CLES SHALL BE 20 AMP, 3-WIRE GROUNDING TYPE EQUAL TO HUBBELL OUNTING @ 18"A.F.F.).

S SHALL BE STANDARD GRADE RATED 20 AMP AT 120 VOLT (MOUNTING @48"A.F.F.) DEVICES SHALL BE A SPECIFICATION GRADE.

CHES:

SAFETY AND DISCONNECT SWITCHES, FUSED OR NONFUSED, AS CALLED FOR ON S AND AS REQUIRED BY CODE. SWITCHES SHALL BE HEAVY DUTY, LOAD AND OWER RATED AS MANUFACTURED BY SQUARE D, GOULD, ITE OR EQUAL.

BOXES AND COVERS SHALL BE GALVANIZED, ONE-PIECE PRESSED STEEL

N, PULL BOXES AND COVERS SHALL BE GALVANIZED STEEL, CODE GAUGE SIZE.

CTRICAL WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR NG, SERVICING, MAINTAINING AND REPAIRING.

ITRACTOR SHALL DO ALL CUTTING, CHASING OR CHANNELING AND PATCHING) FOR ANY WORK UNDER THIS DIVISION. SLEEVES SHALL EXTEND AT LEAST INCHES ABOVE FINISHED FLOOR AND ALL SLEEVES, OPENINGS, ETC., THROUGH TED WALLS AND FLOORS SHALL BE SEALED AFTER CONDUIT INSTALLATION TO THEIR FIRE RATING.

LOWING EQUIPMENT SHALL BE IDENTIFIED WITH ENGRAVED BAKELITE NAMEPLATES JAME AND/OR FUNCTION; DISTRIBUTION PANELS AND DISCONNECT SWITCHES. ATION OF OUTLETS AND EQUIPMENT SHOWN ON THE DRAWINGS ARE APPROXIMATE ARCHITECT SHALL HAVE THE RIGHT TO RELOCATE ANY OUTLETS OR FIXTURES THEY ARE INSTALLED WITHOUT ADDITIONAL COST ..

CAL CONTRACTOR SHALL RECORD ALL FIELD CHANGES IN HIS WORK AS THE JOB SSES.

LS, EQUIPMENT AND INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF YEAR FROM DATE OF ACCEPTANCE. DEFECTS WHICH APPEAR DURING THAT SHALL BE CORRECTED AT THIS CONTRACTOR'S EXPENSE.

SAME PERIOD, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY TO PREMISES CAUSED BY DEFECTS IN WORKMANSHIP OR IN THE WORK OR NT FURNISHED AND/OR INSTALLED BY HIM.

E INTENT THAT THE FOREGOING WORK SHALL BE COMPLETE IN EVERY RESPECT AT ANY MATERIAL OR WORK NOT SPECIFICALLY MENTIONED OR SHOWN ON THE GS, BUT NECESSARY TO FULLY COMPLETE THE WORK SHALL BE FURNISHED.

			LI	GHT FIXTU	JRE SCHE	DUL	E				
Symbol	Label	QTY	Manufacturer	Catalog Number	Description	Lamp	Filename	Lumens per <u>L</u> amp	LLF	Wattage	Distribut ion
	A1	102	Lithonia Lighting	2BLT2 20L ADP EZ1 LP835	2X2 BLT; mounted at 9ft	LED	2BLT2_20L_AD P_LP835.ies	2036	0.9	16.37	DIRECT, SC- 0=1.22, SC- 90=1.3
	Image: Description of the system10Lithonia Lighting2BLT2 20L ADP EZ1 LP835 with DGK22 at atImage: Description of the system77Lithonia Lighting2BLT2 33L ADP EZ1 LP83522 at at		2X2 BLT; mounted at 9ft	LED	2BLT2_20L_AD P_LP835.ies	2036	0.9	16.37	DIRECT, SC- 0=1.22, SC- 90=1.3		
			2X2 BLT; mounted at 9ft	LED	2BLT2_33L_AD P_LP835.ies	3300	0.9	26.48	DIRECT, SC- 0=1.22, SC- 90=1.3		
	A2-DGA	3	Lithonia Lighting	2BLT2 33L ADP EZ1 LP835 with DGK	2X2 BLT; mounted at 9ft	LED	2BLT2_33L_AD P_LP835.ies	3300	0.9	26.48	DIRECT, SC- 0=1.22, SC- 90=1.3
	A3	73	Lithonia Lighting	2BLT2 40L ADP EZ1 LP835	2X2 BLT; mounted at 9ft	LED	2BLT2_40L_AD P_LP835.ies	4034	0.9	30.98	DIRECT, SC- 0=1.22, SC- 90=1.3
	A3-DGA		2BLT2 40L ADP EZ1 LP835 with DGK	2X2 BLT; mounted at 9ft	nted LED 2BLT2_40L_AD P_LP835.ies			0.9	30.98	DIRECT, SC- 0=1.22, SC- 90=1.3	
	B 24 Lithonia Lighting CLX L48 5000LM SEF RDL MVOLT 40K 80CRI		CLX LED Strip; mounted at 11ft (14ft in garage)	LED	CLX_L48_5000 LM_SEF_RDL_ MVOLT_40K_8 0CRI.ies	5020	0.9	31.8274	DIRECT, SC- 0=1.2, SC- 90=1.25		
	С	8	Lithonia Lighting	BLWP4 48L ADP EZ1 LP840	BLWP 4ft 4800 Nominal Lumens, Curved Linear Prismatic lens, 4000K CCT, 80CRI	LED	BLWP4_48L_A DP_LP840.ies	5199	0.9	39.81	DIRECT, SC- 0=1.19, SC- 90=1.28
0	D	28	Juno Lighting	JPDZ4 DC ALO10 (1000lm) SWW5WD (3000K) 90CRI CWH MVOLT ZT10	Podz 4in LED Downlight; mounted at 9ft	LED	JPDZ4_DC_10 00LM_3000K_ 90CRI_CWH.ie s	1124	0.9	13.6	DIRECT, SC- 0=1.08, SC- 90=1.08
	F	22	Luminaire LED	SMQ Q11 XXXXX MIN10 25W 40K ALS 4ES WHT	High Security Confinement LED Surface Mount; mounted at 11ft	LED	SMQ Q11 25W 40K ALS 4ES.ies	2143	0.9	28.8	DIRECT, SC- 0=1.13, SC- 90=1.1
	G	7	Lithonia Lighting	CSVT L48 5000LM MVOLT 4000K 80CRI STSL	Linear LED Vapor Tight; mounted at 8ft	LED	CSVT_L48_500 0LM_MVOLT_4 000K_80CRI.ie s	4946	0.9	41.99	DIRECT, SC- 0=1.27, SC- 90=1.31
	Р	16	Industrial Lighting Products Inc	BL2 18L U 40 FRAL	Blizzard 2ft Vapor Tight High Bay; mounted at 19ft	LED	BL2-18L-U-50- CAL-IES.ies	19589	0.8	122.22	
	U	8	Juno Lighting	UCES 24IN SWW6 3500K	UCES 24IN SWW6 90CRI WH M6	LED	UCES_24IN_S WW6_3500K.ie s	852	0.9	10.8	DIRECT, SC- 0=1.25, SC- 90=1.27
	V2	6	Lithonia Lighting	FMVCCLS 24IN MVOLT 30K35K40K 90CRI BN	2ft Vanity Fixture; wall-mounted at 6ft		FMVCCLS_24I N_MVOLT_30K 35K40K.ies	1737	0.9	18.12	SEMI- DIRECT, SC- 0=1.19, SC- 90=1.39
	V4 5 Lithonia FM V4 900		FMVCCLS 48IN MVOLT 30K35K40K 90CRI BN	4ft Vanity Fixture; wall-mounted at 6ft	LED	FMVCCLS_48I N_MVOLT_30K 35K40K.ies	3208	0.9	34.86	SEMI- DIRECT, SC- 0=1.19, SC- 90=1.39	

ACCESS POINT NOTES

ACCESS POINTS EQUALLY SPACED THROUGH-OUT THE FACILITY.

1. PROVIDE PRICING FOR PROVIDING THE DATA WIRING TO SIX(6)

_		
	F	With the second secon
-	E	CHARLES P. BUCKLEY PROFESSIONAL ENGINEER 500 DEPOT ST. RUMNEY, N.H. 03266 TEL.(603)786-9992 EAV (603)786-2365
	D	FAX.(603)786-2365 FAX.(603)786-2365 CHARLES P. BUCKLEY NO. 09198 CENSTREE N.H. LIC. NO. 09198
	С	REVISION DATE COMMENTS I I I
	В	PROJECT: WOLFEBORO PUBLIC SAFETY BUILDING SOUTH MAIN ST. WOLFEBORO, NH ISSUED: DESIGN DEVELOPMENT DESIGN DEVELOPMENT
	Α	ELECTRICAL NOTES , SYMBOLS AND DETAILS PROJECT NO:22-950 DATE: MAY 31, 2023 SHEET NUMBER: E101







F	COPYRIGHT © 20 NO REPRODUCTION CONSULTATEAM: OWNER: TOWN OF P.O. BOX WOLFEBOA ARCHITEC BANWELL 6 SOUTH LEBANON, T: (603) F: (603)	THE CARRIAG 6 SOUTH PA LEBANON, N T: 603 44 19 BANWELL ARCHIT ON WITHOUT PRIOR ANTS / DES WOLFEBORC 629 RO, NH 0389 T: ARCHITECTS PARK STRE NH 03766 448–3778 443–5555	GE HOUSE RK STREET H 03766 B 3778 ECTS ALL RIGHTS RESERVED. WRITTEN PERMISSION
E	CHAF PROI H	CHARLES BUCKLEY NO. 09198 BUCKLEY NO. 09198 BUCK	BUCKLEY ENGINEER T ST. H. 03266 66-9992 66-2365
D			
С	REVISION	DATE	COMMENTS
	KEY PLAN	& NORTH ARR	OW:
В	PROJECT: WOLFEE BUILDIN SOUTH WOLFEE	BORO PUE NG MAIN ST BORO, NH	BLIC SAFETY
	issued: DESIGN	DEVELO	PMENT
	drawing ti LEVEL	itle: 1 LIGHTIN	IG PLAN
	PROJECT NO	:22–950 DAT	E: MAY 31, 2023
	SHEET NUM		
A		E 1	υ4





| 7



	CIRC	CUIT	BREAKER PANEL	NO: "MDP"												
	VOLTS:	120/208	WIRE: 4 KA RMS:	42 KAIC	NEUTRAL B	AR: YES		BRA	ANCH	CB: BOLT	Γ-ON	NEMA TYPE: 1	MF'R: SQUARE D, G	i.E., SIEME	INS,	
	PHASE	: 3	RATED AMP: 800 MAIN LUG	ONLY	GROUND BA	R: YES		KE١	Y LOC	<: YES		MOUNTING: SL	JRFACE 0R EQUAL.			
VOLT- A	-AMPS(B	V-A) C	CIRCUIT DESCRIPTION	CONDUCTOR	POLES	C.B.	Ck	' T#	C.B	. POLE	ES (CONDUCTOR	CIRCUIT DESCRIPTION	VOLT- A	-AMPS(B	(V-A) C
3600	\ge	Х	RTU-1	4#8+#10G.	3	45	- 1	2	h 50	3		4#8+#10G.	RTU-3	4800	\geq	\geq
\geq	3600	\ge					- 3	4	Н					\geq	4800	\geq
	\bowtie	3600					- 5	6							\geqslant	4800
3600		$\mathrel{>}$	RTU-2	4#8+#10G.	3	45	- /	8	<u>h 20</u>	3		4#12+#12G.	MAU-1	1800		\bowtie
\bowtie	3600	2000						10	Η					\bowtie	1800	1000
17/00	\bigotimes	3000		4#3/0+#6C	2	200		12		0 2		1#3/0±#6C		15000	\bowtie	1800
1/400	14800	\bigcirc		4#3/0+#00.	<u>з</u>	200	15	16		0 3		4#3/0+#00.		13900	18400	>
\Leftrightarrow		14400					17	18						>		17200
	\leq	\searrow	PANEL L1C	4#3+#8G.	3	100 r	- 19	20	40	3		4#8+#10G.	GARAGE PLYMOVENT SYSTEM	2900	\triangleleft	
$\mathbf{\mathbf{x}}$	0	\bowtie					- 21	22						\sim	2900	\bowtie
\bowtie	\geq	0					- 23	24	μ					\leq	\geq	2900
3700	\sim	\times	APPARATUS BAY	4#8+#10G.	3	50 r	- 25	26	h 25	3		4#10+#10G.	APPARATUS BAY AIR COMPR.	2000	\sim	\geq
\ge	3700	Х	PLYMOVENT SYSTEM				- 27	28	Η					\geq	2000	\succ
\ge	\geq	3700					- 29	30	μ					\geq	\geq	2000
13800	\geq	\times	PANEL L2	4#3/0+#6G.	3	200	- 31	32					SPACE		\geq	\geq
\geq	13800	>					- 33	34					SPACE	\geq		\geq
\geq	\geq	11600				L	- 35	36					SPACE	\geq	\geq	
	\geq	\geq	SPACE				37	38					SPACE		\geq	\geq
\bowtie		\geq	SPACE				39	40					SPACE	\bowtie		\vdash
\geq	\geq		SPACE				41	42					SPACE	\geq	\vdash	
42100	39500	36900	- TOTAL		TOTAL CONN	ECTED I	LOAD	: 204,	500 VA	(568 A.)			TOTAL ——	27400	29900	28700



	CIRC	CUIT	BREAKER PANEL	NO: "L1A"											
	VOLTS:	120/208	WIRE: 4 KA RMS:	22 KAIC	NEUTRAL BA	R: YES		BRA	NCH CE	B: BOLT-ON	NEMA TYPE:	MF'R: SQUARE D, G	.E., SIEME	NS,	
	PHASE:	: 3 F	RATED AMP: 225 MAIN LUG	ONLY	GROUND BA	R: YES		KEY	LOCK:	YES	MOUNTING: SU	JRFACE 0R EQUAL.			
VOLT- A	-AMPS(B	V-A) C	CIRCUIT DESCRIPTION	CONDUCTOR	POLES	C.B.	СК	'⊤#	C.B.	POLES	CONDUCTOR	CIRCUIT DESCRIPTION	VOLT- A	-AMPS(B	V-A) C
1000	\searrow	\searrow	ECH-1	2#12+#12G.	1	20	1	2	20	1	2#12+#12G.	RECEPT.	1000	\searrow	
$>\!$	1500	\geq	ECH-1	2#12+#12G.	1	20	3	4	20	1	2#12+#12G.	RECEPT.	\times	1000	\geq
\succ	\ge	600	UH-2A & 2B	2#12+#12G.	1	20	5	6	20	1	2#12+#12G.	RECEPT.	\times	\ge	1000
1000	\ge	\ge	RECEPT.	2#12+#12G.	1	20	7	8	20	1	2#12+#12G.	RECEPT.	1000	\ge	$>\!$
\geq	1000	\succ	RECEPT.	2#12+#12G.	1	20	9	10	20	1	2#12+#12G.	RECEPT.	\times	1000	\ge
\geq	\ge	1000	RECEPT.	2#12+#12G.	1	20	11	12	20	1	2#12+#12G.	ECH-1	\ge	\succ	1500
800	\ge	\times	UH-1A, B, C, D	2#12+#12G.	1	20	13	14	- 40	2	3#10+#10G.	DSHP-2	3200	\times	\ge
$>\!$	1000	\ge	CORD REELS	2#12+#12G.	1	20	15	16	1				\times	3200	\geq
\succ	\ge	1000	CORD REELS	2#12+#12G.	1	20	17	18	n 40	2	3#10+#10G.	DSHP-3	\succ	\succ	3200
1800	\times	\times	EF-6 & LOUVERS	2#12+#12G.	1	20	19	20	1				3200	\times	\succ
\succ	1500	\times	B-1 BOILER	2#12+#12G.	1	20	21	22	n 15	2	3#12+#12G.	ERV-1	\succ	1400	\ge
\geq	\ge	1500	B-2 BOILER	2#12+#12G.	1	20	23	24					\succ	\succ	1400
600	\ge	\times	P-1 PUMP	4#12+#12G.	3	²⁰ Г	25	26	20	1	2#12+#12G.	WH-1 RECEPT.	1000	$\!$	\ge
\succ	600	\times				ŀ	27	28	20	1	2#12+#12G.	LIGHTING	\times	1000	\succ
\geq	\ge	600				L	29	30	20	1	2#12+#12G.	LIGHTING	\succ	\succ	1000
600	\times	\times	P-2 PUMP	4#12+#12G.	3	20 г	31	32	20	1	2#12+#12G.	LIGHTING	1000	\times	\succ
\succ	600	\succ					33	34	20	1	2#12+#12G.	LIGHTING	\succ	1000	\succ
\geq	\ge	600				L	35	36	20	1	2#12+#12G.	LIGHTING	\succ	\succ	1000
1200	\ge	\succ	EXTERIOR LIGHTING	2#10+#10G.	1	20	37	38	20	1	2#10+#10G.	EG-1 BATTERY CHARGER	400	\ge	\geq
$>\!$	1000	\ge	WH-1	2#12+#12G.	1	20	39	40				SPACE	\times		\ge
\ge	\geq	600	EG-1 BLOCK HEATER	2#10+#100G.	1	20	41	42				SPACE	\ge	$>\!$	
7000	7200	5900	- TOTAL		TOTAL CONN	ECTED L	.OAD:	46,5	00 VA (12	29 A.)		TOTAL ——	10800	8600	9100

	CIRC	CUIT	BREAKER PANEL	NO: 'L1B'												
	VOLTS:	120/208	WIRE: 4 KA RMS:	22 KAIC	NEUTRAL B	AR: YES		BRA	ANCH CE	BOLT-ON	NEMA TYPE: 1	1 N	MF'R: SQUARE D, G	.E., SIEME	.NS,	
	PHASE	: 3 1	RATED AMP: 225 MAIN LUG	ONLY	GROUND BA	AR: YES		KE١	Y LOCK:	YES	MOUNTING: SU	URFACE	0R EQUAL.			
VOLT- A	-AMPS(B	V-A) C	CIRCUIT DESCRIPTION	CONDUCTOR	POLES	C.B.	СК	'⊤#	C.B.	POLES	CONDUCTOR	CIRCUIT	DESCRIPTION	VOLT- A	-AMPS(B	(V-A) C
1000	\ge	\ge	RECEPT.	2#12+#12G.	1	20	1	2	20	1	2#12+#12G.	RECEPT.		1000	\geq	\geq
\geq	1000	\ge	RECEPT.	2#12+#12G.	1	20	3	4	20	1	2#12+#12G.	RECEPT.		\times	1000	\succ
\geq	\geq	1000	RECEPT.	2#12+#12G.	1	20	5	6	20	1	2#12+#12G.	RECEPT.		\times	\geq	1000
1000	\succ	\geq	RECEPT.	2#12+#12G.	1	20	7	8	20	1	2#12+#12G.	RECEPT.		1000	\succ	\geq
\geq	1000	\ge	RECEPT.	2#12+#12G.	1	20	9	10	20	1	2#12+#12G.	RECEPT.		\times	1000	\geq
\geq	\geq	1000	RECEPT.	2#12+#12G.	1	20	11	12	20	1	2#12+#12G.	RECEPT.		\times	\geq	1000
1000	\geq	\geq	NFSS - ELEVATOR	2#12+#12G.	1	20	13	14	20	1	2#12+#12G.	RECEPT.		1000	\geq	\geq
\geq	1000	\ge	RECEPT ELEV.	2#12+#12G.	1	20	15	16	20	1	2#12+#12G.	RECEPT.		\times	1000	\ge
\succ	\succ	1000	RECEPT OIL MINDUR	2#12+#12G.	1	20	17	18	20	1	2#12+#12G.	RECEPT.		\times	\geq	1000
1000	\geq	\succ	RECEPT.	2#12+#12G.	1	20	19	20	20	1	2#12+#12G.	RECEPT.		2200	\geq	\geq
\succ	1000	\ge	RECEPT.	2#12+#12G.	1	20	21	22	20	1	2#12+#12G.	RECEPT.		\times	2200	\ge
\succ	\geq	1000	RECEPT.	2#12+#12G.	1	20	23	24	20	1	2#12+#12G.	RECEPT.		\times	\geq	1000
1000	\geq	\succ	RECEPT.	2#12+#12G.	1	20	25	26	20	1	2#12+#12G.	ECH-1		1500	\geq	\succ
\succ	1000	\geq	RECEPT.	2#12+#12G.	1	20	27	28	h 20	2	3#12+#12G.	ECH-2		\times	1500	\geq
\succ	\succ	1000	RECEPT.	2#12+#12G.	1	20	29	30	μ					\succ	\geq	1500
1500	\geq	\ge	ECH-1	2#12+#12G.	1	20	31	32	20	1	2#12+#12G.	ECH-1		1500	\geq	\geq
\succ	1500	\succ	ECH-2	3#12+#12G.	2	20 г	33	34	h 40	2	3#10+#10G.	DSHP-1		\succ	3200	\geq
\succ	\ge	1500					35	36						\succ	\ge	3200
200	\triangleright	\geq	UH-2	2#12+#12G.	1	20	37	38	20	1	2#12+#12G.	LIGHTING		1000	\bowtie	\succ
\succ	1000	\geq	LIGHTING	2#12+#12G.	1	20	39	40	20	1	2#12+#12G.	LIGHTING		\geq	1000	\succ
\bowtie	\succ	1000	LIGHTING	2#12+#12G.	1	20	41	42	20	1	2#12+#12G.	LIGHTING		\geq	\geq	1000
6700	7500	7500	- TOTAL		TOTAL CONN	IECTED L	OAD:	51,5	00 VA (14	3 A.)			TOTAL ——	9200	10900	9700

	CIRC	CUIT	BREAKER PANEL	NO: "L1C"											
	VOLTS: PHASE	: 120/208 : 3	WIRE: 4 KA RMS:		NEUTRAL B	AR: YES		BRA	NCH CE	BOLT-ON	NEMA TYPE: MOUNTING: S	1 MF'R: SQUARE D, G 0R EQUAL.	.E., SIEME	NS,	
VOLT-	-AMPS(B	. <u> </u>	CIRCUIT DESCRIPTION	CONDUCTOR	POLES	C.B.	Ск	'⊤#	C.B.	POLES	CONDUCTOR	CIRCUIT DESCRIPTION	VOLT- A	-AMPS(B	V-A) C
	\ge	\bigotimes	SPACE SPACE				1	2				SPACE SPACE	\searrow	\ge	\ge
\leq	\ge		SPACE				5	6				SPACE	\leq	\ge	
\geq	\sim	\bigotimes	SPACE SPACE				9	8 10				SPACE SPACE	\succ	\sim	\bigotimes
\geq	\ge		SPACE SPACE				11	12 14				SPACE SPACE	\times	$\langle \langle \langle$	
\ge		\leq	SPACE				15	16				SPACE	\ge		\leq
\geq	\bigotimes	\searrow	SPACE SPACE				17	18 20				SPACE SPACE	\nearrow	\bigotimes	\searrow
\ge		\sum	SPACE SPACE				21 23	22 24				SPACE SPACE	\searrow	X	\geq
	\leq	\ge	SPACE				25	26				SPACE		\leq	\ge
\bowtie	\succ	\succ	SPACE				27	28 30				SPACE SPACE	\bigotimes	\searrow	\geq
0	0	0	TOTAL		TOTAL CONN	IECTED L	OAD:	0 VA	(0 A.)			TOTAL	0	0	0

	CIRC	CUIT	BREAKER PANEL	NO: "L2"											
	VOLTS:	120/208	WIRE: 4 KA RMS:	22 KAIC	NEUTRAL B	AR: YES		BRA	ANCH CE	BOLT-ON	NEMA TYPE: 1	MF'R: SQUARE D, G	.E., SIEME	NS,	
	PHASE	: 3 F	RATED AMP: 225 MAIN LUG	ONLY	GROUND BA	KEY LOCK: YES				MOUNTING: SU	JRFACE 0R EQUAL.				
VOLT-	-AMPS(B	V-A) C	CIRCUIT DESCRIPTION	CONDUCTOR	POLES	C.B.	СК	'⊤#	C.B.	POLES	CONDUCTOR	CIRCUIT DESCRIPTION	VOLT-	-AMPS(B	V-A) C
1000	\searrow	\searrow	RECEPT.	2#12+#12G.	1	20	1	2	20	1	2#12+#12G.	RECEPT.	1000	\ge	\searrow
\times	1000	\succ	RECEPT.	2#12+#12G.	1	20	3	4	20	1	2#12+#12G.	RECEPT.	\times	1000	\geq
\times	\times	1000	RECEPT.	2#12+#12G.	1	20	5	6	20	1	2#12+#12G.	RECEPT.	\times	\ge	1000
1000	\times	\ge	RECEPT.	2#12+#12G.	1	20	7	8	20	1	2#12+#12G.	RECEPT.	1000	$>\!$	\ge
\times	1000	\ge	RECEPT.	2#12+#12G.	1	20	9	10	20	1	2#12+#12G.	RECEPT.	\times	1000	\ge
\ge	\times	1000	RECEPT.	2#12+#12G.	1	20	11	12	20	1	2#12+#12G.	RECEPT.	X	$>\!$	1000
1000	\times	\geq	RECEPT.	2#12+#12G.	1	20	13	14	20	1	2#12+#12G.	RECEPT.	1000	\geq	\geq
\ge	1000	\succ	RECEPT.	2#12+#12G.	1	20	15	16	20	1	2#12+#12G.	RECEPT.	$\left< \right>$	1000	\ge
\ge	\times	1000	RECEPT.	2#12+#12G.	1	20	17	18	20	1	2#12+#12G.	RECEPT.	\times	\geq	1000
1000	\times	\geq	RECEPT.	2#12+#12G.	1	20	19	20	n 30	2	3#10+#10G.	RECEPT DRYER	2200	\geq	\ge
\succ	1000	\succ	RECEPT.	2#12+#12G.	1	20	21	22					\times	2200	>>
\ge	\times	1000	RECEPT.	2#12+#12G.	1	20	23	24	20	1	2#12+#12G.	RECEPT WASHER	\times	\geq	1000
1000	\times	\geq	RECEPT.	2#12+#12G.	1	20	25	26	n 15	3	4#12+#12G.	EF-4	600	>>	\geq
\times	1000	\geq	J.B KH-1	2#12+#12G.	1	20	27	28	1				\times	600	\ge
\ge	\times	1000	RECEPT ROOF	2#12+#12G.	1	20	29	30					$\left< \right>$	\geq	600
1000	\times	\geq	RECEPT.	2#12+#12G.	1	20	31	32	20	1	2#12+#12G.	LIGHTING	1000	\geq	\ge
\ge	1000	\geq	RECEPT.	2#12+#12G.	1	20	33	34	20	1	2#12+#12G.	LIGHTING	$\left< \right>$	1000	\geq
\ge	\times	1000	RECEPT.	2#12+#12G.	1	20	35	36	20	1	2#12+#12G.	LIGHTING	\times	\geq	1000
1000	\times	\ge	LIGHTING	2#12+#12G.	1	20	37	38				SPACE		$>\!\!\!\!>$	\ge
\geq	1000	\geq	LIGHTING	2#12+#12G.	1	20	39	40				SPACE	\ge		\geq
\succ	\succ		SPACE				41	42				SPACE	\succ	$>\!$	
7000	7000	6000	TOTAL		TOTAL CONN	ECTED L	OAD:	39,2	00 VA (10	9 A.)		TOTAL	6800	6800	5600

1

F	With the state of the stat
E	CHARLES P. BUCKLEY PROFESSIONAL ENGINEER 500 DEPOT ST. RUMNEY, N.H. 03266 TEL.(603)786-9992 FAX.(603)786-2365 FAX.(603)786-2365 N.H. LIC. NO. 09198
С	REVISION DATE COMMENTS I I I
В	PROJECT: WOLFEBORO PUBLIC SAFETY BUILDING SOUTH MAIN ST. WOLFEBORO, NH ISSUED: DESIGN DEVELOPMENT DRAWING TITLE: ELECTRICAL PANEL SCHEDULES PROJECT NO:22-950 DATE: MAY 31, 2023
A	E107