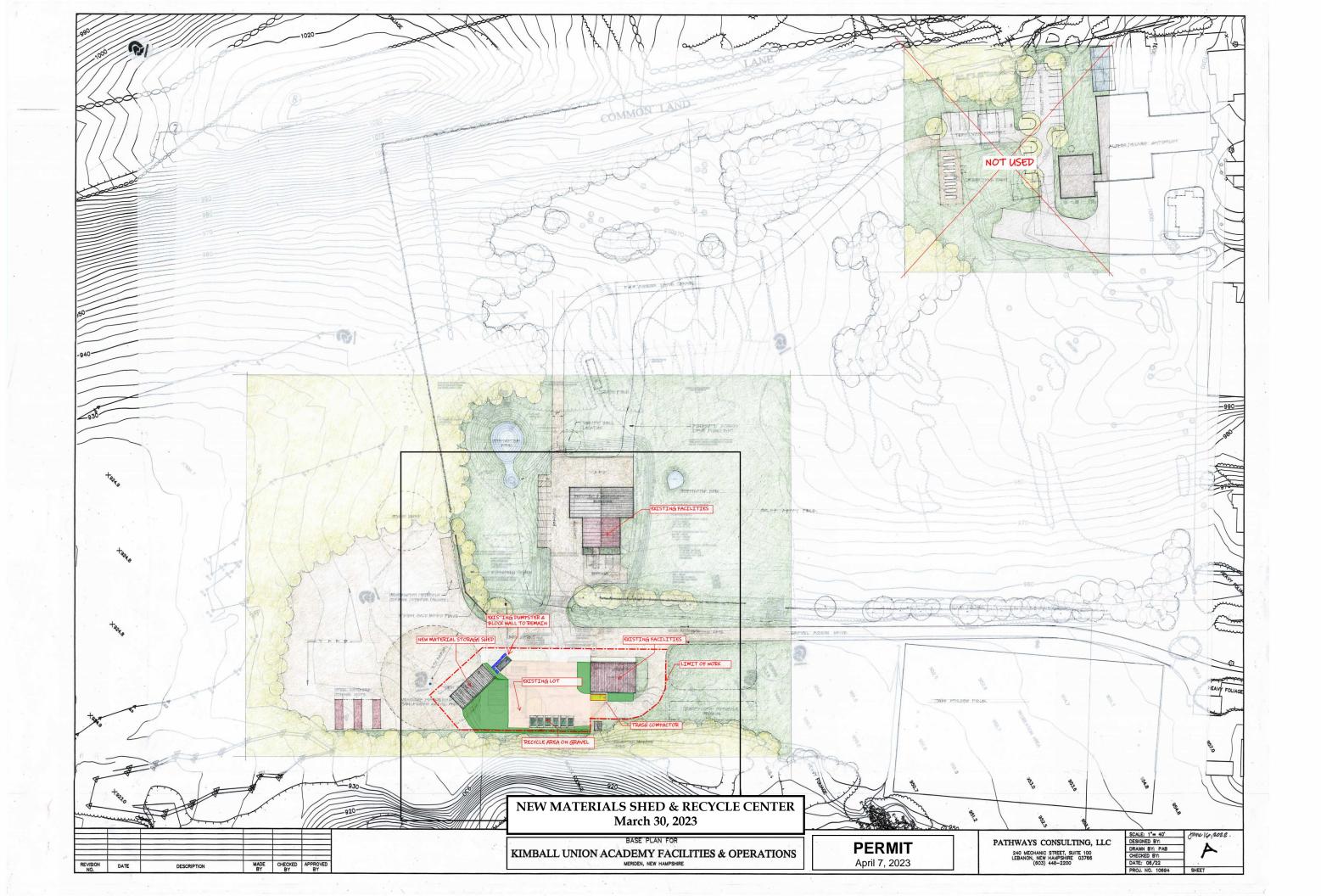
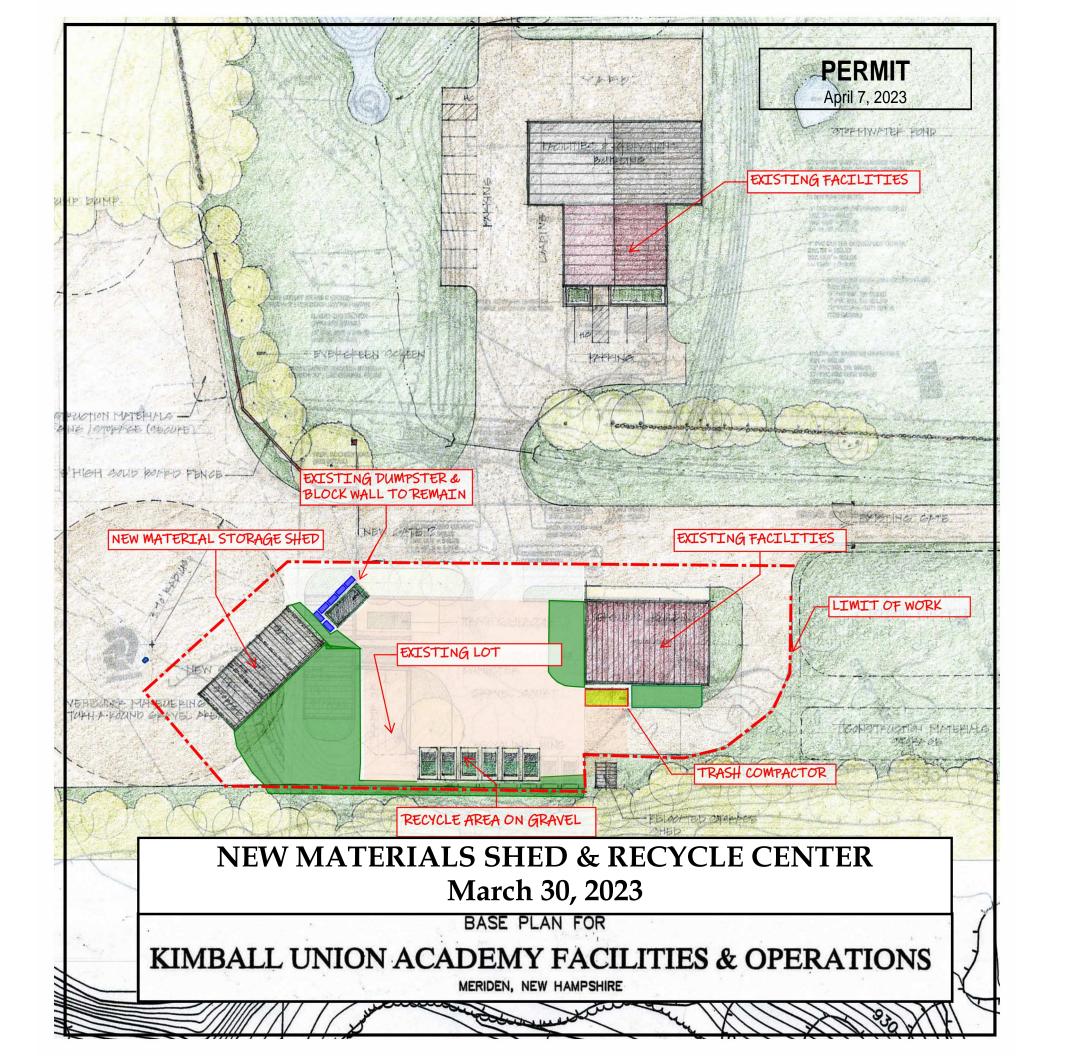
Fox 60

# TOWN OF PLAINFIELD ZONING AND BUILDING PERMIT APPLICATION



Property Owner:				
Name: Kimball Union Academy	Phone: 603-469-2152			
Street: PO Box 188	Email: dplummer@kua.org			
City State Zip: Meriden, NH 03770	Builder Email			
Project:	Permit Type: (Check one) 🔀 Building 🔲 Zoning			
	- Zounding Zounding			
Street Address:   35 Main Street (Facilities Building Lot)				
Tax Map: 104 Lot Number: 33 Lot Acreage	e: 43 Zoning District: Village Residential (VR)			
Proposed project distances to property lines (in feet):	049 Rear: 1432 Side: 478 Side: 465			
State Approved Septic Design #: n/a	Driveway Permit #: n/a			
Please provide a written description of the project including appropriate dimensions:  Move our existing materials shed and recycle center to the KUA Facilites lot.  The shed is 20X60				
Contractor Information:				
Builder: Elect	rician: Plumber:			
Name: TBD Name: TBD	rician: Plumber:  Name: n/a			
Name: TBD Name: TBD	Name: n/a			
Name: TBD  Phone:  Phone:  Applicant Signature:  Drop off or mail Application documents to: Telease provide a copy of plans detailing the project. Hand-drawn permits cannot be issued without receipt of the proper fee. If you are the proper fee. If you are the proper fee.	Name: n/a  Phone:  Date: 4723  Cown of Plainfield, PO Box 380, Meriden, NH 03770  plans can be used if necessary.			
Name: TBD  Phone:  Phone:  Applicant Signature:  Drop off or mail Application documents to: Telease provide a copy of plans detailing the project. Hand-drawn permits cannot be issued without receipt of the proper fee. If you are the proper fee. If you are the proper fee.	Name: n/a  Phone:  Date: 7 23  Town of Plainfield, PO Box 380, Meriden, NH 03770  plans can be used if necessary.  are unsure of the amount due or have any questions about your ress: plainfield.ta@plainfieldnh.org			
Name: TBD  Phone:  Phone:  Applicant Signature:  Prop off or mail Application documents to: The Please provide a copy of plans detailing the project. Hand-drawn premits cannot be issued without receipt of the proper fee. If you application, contact the town office (603-469-3201).  TOWN USE:  Current Use: Yes / No  ZBA: Y	Name: n/a  Phone:  Date: 7 23  Town of Plainfield, PO Box 380, Meriden, NH 03770  plans can be used if necessary.  are unsure of the amount due or have any questions about your ress: plainfield.ta@plainfieldnh.org			
Name: TBD  Phone:  Phone:  Applicant Signature:  Prop off or mail Application documents to: Town decimal additional accordance of the proper fee. If you application, contact the town office (603-469-3201).  TOWN USE:  Current Use: Yes /No  ZBA: You application documents to: Town USE:  Current Use: Yes /No  Review	Name: n/a  Phone:  Date: 7 23  Town of Plainfield, PO Box 380, Meriden, NH 03770  plans can be used if necessary.  are unsure of the amount due or have any questions about your ress: plainfield.ta@plainfieldnh.org  PB: Yes/No			





#### A. GENERAL NOTES

- ALL STRUCTURAL WORK SHALL CONFORM TO THE PROJECT SPECIFICATIONS, DRAWINGS, AND THE IBC 2018.
- SIDING, ROOFING, AND OTHER ARCHITECTURAL DETAILS BY OWNER.

## B. FOUNDATION RELATED EARTHWORK

- FOUNDATIONS HAVE BEEN DESIGNED WITH A PRESUMPTIVE BEARING PRESSURE OF 3.000 PSF. THIS ASSUMPTION SHALL BE VERIFIED BY THE OWNER OR GENERAL CONTRACTOR AT THE TIME OF EXCAVATION. IF NECESSARY, THE OWNER SHALL EMPLOY A TESTING AGENCY OR GEOTECHNICAL ENGINEER TO ASSIST IN THIS EVALUATION. SOIL TESTONG OR GEOTECHNICAL ENGINEERING HAS NOT BEEN COMPLETED BY THE DESIGN TEAM FOR THIS SITE
- IBC CHAPTER 18 "SOILS AND FOUNDATION" REQUIREMENTS APPLY. REPORT CONFLICTS BETWEEN THE REPORTING AND THE DRAWINGS AND SPECIFICATIONS TO THE EOR PRIOR TO COMMENCING ANY AFFECTED WORK.
- FOOTINGS AND SLABS CAST DIRECTLY AGAINST THE EARTH SHALL BE SIDE-FORMED AS REQUIRED TO KEEP EARTH OUT OF THE CONCRETE. COMPACT DISTURBED LOAD BEARING SOIL IN DIRECT CONTACT WITH FOUNDATIONS TO ORIGINAL BEARING CAPACITY. AS WET WEATHER OR GROUND CONDITIONS WARRANT, PLACE A MINIMUM OF 6 INCHES OF CRUSHED STONE OR 12 INCHES OF SAND-GRAVEL WRAPPED IN GEOTEXTILE FABRIC FOR SUBGRADE PROTECTION BENEATH FOUNDATIONS, DO NOT ALLOW FOR STANDING WATER ON EARTH. IF OVER-EXCAVATION OCCURS, REPLACE MATERIAL WITH CRUSHED STONE.
- UNLESS NOTED OTHERWISE, PLACE AND COMPACT BACKFILL IN EQUAL CONTINUOUS LAYERS NOT EXCEEDING A MAXIMUM OF 8" OF COMPACTED DEPTH FOR HAND-HELD COMPACTION EQUIPMENT AND A MAXIMUM OF 12" INCHES COMPACTED DEPTH FOR VIBRATORY ROLLERS. MAINTAIN OPTIMUM MOISTURE CONTENT OF BACKFILL MATERIALS TO ATTAIN COMPACTION DENSITY.
- AT EARTH RETAINING AND FOUNDATION WALLS, BACKFILL LIFTS TO NOT EXCEED 12 INCH DIFFERENCE IN ELEVATION UNTIL FINAL ELEVATION ARE REACHED ON BOTH SIDES OF THE WALL. AT BASEMENT WALLS, DO NOT BACKFILL UNTIL GROUND FLOOR AND CONNECTED ELEVATED FRAMED LEVELS SLABS HAVE BEEN COMPLETED AND THE CONCRETE AT WALLS AND FLOORS HAS ACHIEVED FULL DESIGN STRENGTH.

#### BACKFILL REQUIREMENTS

- FILL WITHIN BUILDING ENVELOPE AND EXTENDING OUTWARD AT 1:1 SLOPE TO ACCEPTABLE NATIVE SOIL MATERIAL: "SAND-GRAVEL"; "GRANULAR"; "CRUSHED STONE" WITH GEOTEXTILE WRAP (SEE SECTIONS) COMPACTION: 95% MODIFIED PROCTOR
- BACKFILL DIRECTLY BELOW INTERIOR SLABS-ON-GRADE ASSEMBLIES (12 INCHES UNLESS NOTED OTHERWISE): "CRUSHED STONE" WITHOUT GEOTEXTILE COMPACTION: 95% MODIFIED PROCTOR
- BACKFILL BELOW PAVEMENT, WALKS, ENTRY SLABS IN VICINITY OF BUILDING: MATERIAL: "SAND-GRAVEL" "GRANULAR" "CRUSHED STONE" (SEE SECTIONS, LAND ARCH AND CIVIL) COMPACTION: 95% MODIFIED PROCTOR
- BACKFILL BEHIND RETAINING WALLS AND BASEMENT WALLS, OUTSIDE BUILDING ENVELOPE AND UNDER PAVEMENT, WALKS, ENTRY SLABS: MATERIAL: "GRANULAR BACKFILL" COMPACTION: 95% MODIFIED PROCTOR
- BACKFILL ALONG EXTERIOR OF BUILDING AGAINST WALLS AND NOT UNDER PAVEMENT, WALKS, ENTRY MATERIAL: "SUITABLE NATIVE SOIL" COVERED BY 2 FEET DEEP BY 4 FEET WIDTH OF "LESS PERMEABLE FILL COMPACTION: 92% MODIFIED PROCTOR
- BACKFILL MATERIALS: RECYCLED CONCRETE AGGREGATE TO BE USED IN WHOLE OR BLENDED WITH OTHER AGGREGATES TO ACHIEVE GRADATIONS BELOW. ONSITE MATERIALS MEETING THE FOLLOWING CLASSIFICATIONS MAY BE USED:

١.	"SAND-GRAVEL":		
	SIEVE DESIGNATION	% BY WEIGHT PASSING SIEVES	
	4 INCH	100	
	1/2 INCH	50-85	
	No. 4	45-75	
	No. 100	10-35	
	No. 200	0-6	
3.	"GRANULAR":		
	SIEVE DESIGNATION	% BY WEIGHT PASSING SIEVES	
	No. 4	100	
	No. 10	30-95	
	No. 40	10-60	
	No. 200	0-8	
<b>)</b> .	"CRUSHED STONE" WITH GEOTEXTILE FABRIC:		
	SIEVE DESIGNATION	% WEIGHT BY PASSING SIEVES	
	1 INCH	100	

No. 8 "SUITABLE NATIVE SOIL": ON SITE SAND OR GRAVEL REASONABLY FREE OF LOAM, SILT, CLAY, OR ORGANIC

90-100

0-55

0-10

"LESS PERMEABLE FILL" GLACIAL TILL (SEE GEOTECHNICAL REPORT)

3/4 INCH

3/8 INCH

No. 4

- GEOTEXTILE FABRIC: NON-WOVEN WITH 12 LAPPED SEAMS SEE GEOTECHNICAL REPORTING FOR USE AND MEETING: • GRAB STRENGTH OF 80 POUNDS MINIMUM MEETING ASTM D4632 • PUNCTURE STRENGTH OF 25 POUNDS MINIMUM MEETING ASTM D4833
- TRAPEZOID TEAR OF 25 POUNDS MINIMUM MEETING ASTM D4533 APPARENT OPENING SIZE OF NO. 70-100 (US SIEVE) MEETING ASTM D4751
- INSULATION AT EXTERIOR SLABS AND WALKS (NOT PAVEMENTS): EXTRUDED POLYSTYRENE, STRENGTH OF 40 PSI (UNO) AND RATED FOR UNDERSLAB/UNDERGROUND USE. STAGGER AND DO NOT TAPE BOARD JOINTS.

#### C. CAST-IN-PLACE CONCRETE

- CODES AND STANDARDS: COMPLY WITH THE PROVISIONS OF THE LATEST EDITIONS OF:
  - ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE"
  - ACI 304 "GUIDE FOR MIXING, TRANSPORTING AND PLACING CONCRETE" ACI 305 "HOT WEATHER CONCRETING"

ACI 306 "STANDARD SPECIFICATION FOR COLD WEATHER CONCRETING"

- ACI 308 "STANDARD PRACTICE FOR CURING CONCRETE". CONCRETE TESTING: THE CONTRACTOR SHALL PREPARE A SET OF 4 CYLINDERS/TEST SET TO BE TESTED AT AN
- INDEPENDENT LABORATORY. THE CYLINDERS SHALL BE TAKEN FROM ONE CONCRETE TRUCK AND LABELED WITH DATE, TRUCK NUMBER, AND LOCATION OF CONCRETE PLACEMENT, EACH SAMPLE SHALL ALSO BE TESTED FOR SLUMP, AIR CONTENT, AND TEMPERATURE, THE CYLINDERS SHALL BE TESTED AS FOLLOWS: 1 AT 7 DAYS: 2 AT 28 DAYS; AND A THIRD HELD FOR A 56 DAY BREAK IF REQUIRED. TEST CYLINDERS SHALL BE TAKEN AT LEAST ONCE PER PLACEMENT. FIELD TESTING SHALL BE PERFORMED BY A GRADE I ACI (MINIMUM)FIELD TESTING TECHNICIAN.
- SUBMIT MIX DESIGN AND EITHER TRIAL MIX DESIGNS OR HISTORIC FIELD DATA FOR APPROVAL IN ACCORDANCE WITH ACI 318, CHAPTER 5, INCLUDE TECHNICAL DATA SHEETS, GRADATIONS, AND MATERIAL VERIFICATIONS ON ALL COMPONENTS. SUBMIT MIX DESIGNS, PRIOR TO PLACEMENT OF CONCRETE, TRANSIT MIX SHALL CONFORM TO ASTM
- COMPRESSIVE MIXTURES AS DELINEATED IN TABLE BELOW; SEE 03 3000 & NOTES BELOW FOR ADDITIONAL
- SLUMP: 3"-5" BEFORE ADDITION OF WATER REDUCER, 6"-8" AFTER ADDITION OF WATER REDUCER ALL CONCRETE NORMALWEIGHT, UNLESS NOTED OTHERWISE.
- MAXIMUM AGGREGATE SIZE IN ACCORDANCE WITH ACI 301; CLEARLY NOTE LOCATION WHERE AGGREGATES

GREATER THAT 3/4" MAXIMUM SIZE ARE PROPOSED FOR USE.

- NO CHLORIDE OR OTHER UNAUTHORIZED ADMIXTURES SHALL BE USED. MAINTAIN MAXIMUM WATER SOLUBLE CHLORIDE ION (CL-) IN CONCRETE, BY WEIGHT OF CEMENT AT LESS THAN 1.00 FOR NON-EXPOSED CONCRETES AND 0.30 FOR EXTERIOR EXPOSED CONCRETES
- WHEN AMBIENT TEMPERATURE IS BELOW 40° FAHRENHEIT OR MORE THAN 90° FAHRENHEIT PLACE AND PROTECT CONCRETE IN ACCORDANCE WITH ACI STANDARDS LISTED ABOVE.
- CONCRETE PLACEMENT MAY REQUIRE ADJUSTMENT OF REINFORCEMENT, EMBEDDED ITEMS OR ANCHOR BOLTS. REVIEW DRAWINGS IDENTIFY THESE LOCATIONS TO ARCHITECT PRIOR TO SUBMITTALS. PROVIDE ADDITIONAL SUPERVISION AT ALL STEEL TO CONCRETE CONNECTION LOCATIONS AND MODIFY PLACEMENT MEASURES TO ACCOUNT FOR CONGESTIONS
- COMPLY WITH ACI CODES AND PLACE CONCRETE IN A CONTINUOUS OPERATION WITHIN PLANNED JOINTS OR SECTIONS. DO NOT PERMIT COLD JOINTS TO OCCUR.
- CURING: COVER OR WET CURE ALL ELEMENTS. BEGIN INITIAL CURING AS SOON AS FREE WATER HAS DISAPPEARED FROM EXPOSED SURFACES. WHERE POSSIBLE, KEEP CONTINUOUSLY WET FOR 72 HOURS. CONTINUE CURING BY USE OF MOISTURE RETAINING COVER. USE OF MEMBRANE-FORMING CURING COMPOUNDS IS PROHIBITED.
- 11. SEE 03 3000 FOR SURFACE FINISHES. NOTE EXPOSED WALL REQUIREMENTS IN SPECIFICATIONS
- PROVIDE CONTROL AND CONSTRUCTION JOINTS BY DETAIL AND SPECIFICATION REQUIREMENTS. SHOW LOCATION ON REINFORCING SUBMITTAL FOR COORDINATION WITH FLOORING, EQUIPMENT AND OTHER CONTRACTOR REQUIREMENTS.
  - SLABS SAW-CUT CONTROL JOINTS AS SOON AS CONCRETE HAS HARDENED ENOUGH TO WALK ON SURFACE WITHOUT DAMAGING CONCRETE AND NO MORE THAN 4 HOURS AFTER FINAL TROWEL. JOINT SPACING
  - SHALL, UNLESS NOTED OTHERWISE, NOT EXCEED 36 TIMES THE SLAB THICKNESS OR 18 FEET WALLS CONTROL JOINTS: NOT EXCEEDING 20 FEET AND AT EACH INTEGRAL PILASTER; CONSTRUCTION JOINTS AT 80 FEET OF MAXIMUM SPACING.

#### . CONCRETE REINFORCEMENT

- REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A615 GRADE 60, STEEL BARS PER ASTM A305, UNLESS NOTED OTHERWISE.
- FIELD BENDING OR REINFORCEMENT SHALL CONFORM TO ACI 301, INCLUDING PRE-HEAT REQUIREMENTS.
- WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185 WITH A MINIMUM ULTIMATE TENSILE STRENGTH OF 70,000 PSI. LAP ONE CROSS WIRE SPACING PLUS 2". SUPPORT MESH ON CHAIRS PER CRSI WITH #4 AT 4'-0"oc, EACH
- PROVIDE MINIMUM CONCRETE COVER TO REINFORCEMENT AS FOLLOWS, UNLESS OTHERWISE NOTED:
- BOTTOM OF FOOTINGS, GRADE BEAMS, AND SLABS-ON-GRADE: 3" SIDES OF FOOTINGS AND GRADE BEAMS: 2"
- FOUNDATION WALLS, FROST WALLS, RETAINING WALLS, PIT WALLS: 2"
- EXTERIOR WALLS (EXPOSED TO WEATHER): 2" FACES OF WALLS OTHER THAN THOSE NOTED ABOVE: 3/4'
- FOUNDATION PIERS: 2" TO TIES
- ALL FACES OF BEAMS AND COLUMNS: 1-1/2" TO TIES TOP AND BOTTOM OF ELEVATED SLABS: 3/4"
- TOPPING SLAB: 3/4" SLAB-ON-DECK: 3/4" FROM DECK, 3/4" FROM TOP SURFACE
- ALL LAPS SHALL BE FULL TENSION LAPS (CLASS B SPLICE) UNLESS SPECIFICALLY NOTED OTHERWISE. DOWELS SHALL MATCH SIZE AND SPACING OF MAIN REINFORCEMENT, UNLESS OTHERWISE NOTED.
- CHAIRS AND SPACERS SHALL BE PLACED TO ADEQUATELY SUPPORT REINFORCING DURING PLACEMENT. FOREIGN MATERIALS SUCH AS WOOD, CLAY BRICK OR OTHER UNSUITABLE SUPPORTS SHALL NOT BE USED TO SUPPORT REINFORCING. SET WIRE TIES SO ENDS ARE DIRECTED INTO CONCRETE WHERE CONCRETE WILL BE EXPOSED. DO NOT USE CONCRETE SUPPORTS OR PUDDLING FOR SLABS UNLESS SUBMITTED AND ACCEPTABLY REVIEWED.

## E. CONCRETE FORMWORK

- CONCRETE FORMS SHALL BE CLEAN AND FREE FROM DEBRIS. IF FORMS ARE COATED WITH A VEGETABLE BASED (SOY) RELEASE AGENT, WHICH SHALL NOT STAIN CONCRETE OR ABSORB MOISTURE OR IMPAIR NATURAL BONDING
- PROVIDE BRACING TO ENSURE STABILITY OF FORMWORK. FOR PLACEMENT OPERATIONS. DO NOT REMOVE FORMS OR BRACING UNTIL CONCRETE HAS GAINED SUFFICIENT STRENGTH TO CARRY ITS OWN WEIGHT AND IMPOSED
- ALL WALL SIDES AND SLAB EDGES EXPOSED TO VIEW TO HAVE CLASS A CLASS OF SURFACE. SEE SPECIFICATIONS

# . STRUCTURAL STEEL

- UNLESS OTHERWISE NOTED, STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING:
  - ANGLES, CHANNELS, PLATE AND OTHER HOT-ROLLED SHAPES: ASTM A36 (FY = 36 KSI) TUBES: ASTM A500 GRADE C. RECTANGULAR: 50 KSI; ROUND: 46 KSI.
  - BASEPLATES, CONNECTION PLATES, STIFFENER PLATES: ASTM A572 GRADE 50 OR ASTM A992 (FY = 50 KSI) THREADED RODS: ASTM A572 GRADE 50
  - ANCHOR BOLTS: ASTM F1554 GRADE 55, UNLESS NOTED OTHERWISE, WITH SUPPLEMENTARY REQUIREMENT
- BOLTS, NUTS AND WASHERS: ASTM A325 TYPE 1 BOLTS (3/4" MINIMUM DIAMETER), ASTM A563 DH HEAVY HEX NUTS WITH ASTM F436 HARDENED WASHERS. PROVIDE BOLT ASSEMBLIES GALVANIZED TO ASTM A153 AT GALVANIZED STRUCTURAL MEMBERS. PROVIDE ASTM A490 BOLTS WHERE NOTED ON DRAWINGS OR WHERE NEEDED FOR SPECIFIED LOADS. DO NOT MIX BOLT SIZES BETWEEN A325 AND A490 BOLTS. HIGH STRENGTH LOAD INDICATOR BOLTS MAY BE USED AT THE CONTRACTOR'S OPTION.
- DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE "MANUAL OF STEEL CONSTRUCTION," 14TH EDITION, BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, AND THE STRUCTURAL WELDING CODE (AWS D1.1) LATEST EDITION, BY THE AMERICAN WELDING SOCIETY.

# F. STRUCTURAL STEEL (CONT.

- ALL STRUCTURAL SHOP AND FIELD WELDING SHALL BE MADE WITH ELECTRODES DESIGNED BY E70XX LOW HYDROGEN, IN ACCORDANCE WITH AWS D1.1, PERFORMED BY CERTIFIED WELDERS.
- GROUT: NON-SHRINK TYPE, PRE-MIXED COMPOUND CONSISTING OF NON-METALLIC AGGREGATE CEMENT, WATER REDUCING AND PLASTICIZING ADDITIVES, CAPABLE OF DEVELOPING A MINIMUM COMPRESSIVE STRENGTH OF 7,000 PSI AT 28 DAYS AS MANUFACTURED BY FIVE STAR PRODUCTS, INC., FAIRFIELD, CT, OR APPROVED EQUIVALENT.
- SHOP AND TOUCH-UP PRIMER (DESIGN BASIS): TNEMEC SERIES 88HS. PROVIDE ZINC-RICH FINISH PAINT COMPATIBLE WITH PRIMER.
- COORDINATE ALL COATINGS WITH DIVISION 9 SPECIFICATION REQUIREMENTS
  - WHERE INDICATED, STRUCTURAL STEEL MEMBERS ARE TO BE GALVANIZED IN ACCORDANCE WITH ASTM A123. PROVIDE MINIMUM 1.25 OZ/SQ FT GALVANIZED COATING. ALL MEMBERS EXPOSED TO THE EXTERIOR OR EXTENDING THROUGH AND BEYOND BUILDING ELEMENT SHALL BE GALVANIZED
- ALLOW FOR ERECTION LOADS, AND FOR SUFFICIENT TEMPORARY BRACING TO MAINTAIN STRUCTURE SAFE, PLUMB, AND IN TRUE ALIGNMENT UNTIL COMPLETION OF ERECTION AND INSTALLATION OF PERMANENT BRACING.
- FIELD WELD COMPONENTS INDICATED ON DRAWINGS AND SHOP DRAWINGS.
- DO NOT FIELD CUT OR ALTER STRUCTURAL MEMBERS WITHOUT APPROVAL OF ARCHITECT/ENGINEER. AFTER ERECTION, PRIME WELDS, ABRASIONS, AND SURFACES NOT SHOP PRIMED, EXCEPT SURFACES TO BE IN CONTACT WITH
- GROUT UNDER BASE PLATES WITH PRE-MIXED NON-SHRINK GROUT WITH MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 7,000 PS

### G. WOOD FRAMING NOTES

- UNLESS OTHERWISE SPECIFIED, EACH PIECE OF LUMBER SHALL BEAR THE GRADE MARK, STAMP, OR OTHER IDENTIFYING MARKS INDICATING GRADES OF MATERIAL, AND RULES OR STANDARDS UNDER WHICH PRODUCED. SUCH IDENTIFYING MARKS ON A MATERIAL SHALL BE IN ACCORDANCE WITH THE RULE OR STANDARD UNDER WHICH MATERIAL IS PRODUCED, INCLUDING REQUIREMENTS FOR QUALIFICATIONS AND AUTHORITY OF THE INSPECTION ORGANIZATION. USAGE OF AUTHORIZED IDENTIFICATION, AND INFORMATION INCLUDED IN THE IDENTIFICATION. THE INSPECTION AGENCY FOR LUMBER SHALL BE APPROVED BY THE BOARD OF REVIEW, AMERICAN LUMBER STANDARDS COMMITTEE, TO GRADE SPECIES USED.
- PROTECT LUMBER AND OTHER PRODUCTS FROM DAMPNESS BOTH DURING AND AFTER DELIVERY AT THE SITE. PILE PLYWOOD AND LUMBER IN STACKS IN SUCH A MANNER AS TO PROVIDE ADEQUATE AIR CIRCULATION AND TO PREVENT WARPING. LOCATE STACKS IN WELL DRAINED AREAS, SUPPORTED AT LEAST SIX INCHES ABOVE GRADE AND COVER WITH WELL VENTILATED SHEDS HAVING A FIRMLY CONSTRUCTED OVERHANGING ROOF AS WELL AS SUFFICIENT END WALL TO PROTECT LUMBER FROM DRIVING RAIN.
- STORE SEASONED MATERIALS IN DRY PORTIONS OF BUILDING.
- PROTECT SHEET MATERIALS FROM CORNERS BREAKING AND DAMAGING SURFACES WHILE UNLOADING.
- NOMINAL SIZES ARE INDICATED EXCEPT AS SHOWN BY DETAIL DIMENSIONS. PROVIDE ACTUAL SIZES AS REQUIRED BY PRODUCT STANDARD 20, DEPARTMENT OF COMMERCE.
- MAXIMUM MOISTURE CONTENT SHALL NOT EXCEED 19%.
- LIGHT GAGE METAL CONNECTIONS SHALL BE SIMPSON, SUBMIT MANUFACTURERS SPECIFICATION SHEETS

- 2x6 AND 2x4 BEARING WALLS, INTERIOR AND EXTERIOR LOCATIONS: SPRUCE-PINE-FIR No. 1 / No. 2 AS GRADED BY NLGA
- STRUCTURAL ROOF AND FLOOR FRAMING: SPRUCE-PINE-FIR No. 1 / No. 2 AS GRADED BY NLGA
- PRESERVATIVE PRESSURE TREATED LUMBER: SOUTHERN PINE No. 2, AS GRADED BY SPIB
- LAMINATED VENEER LUMBER (LVL):
- PROVIDE LVL HEADERS AND BEAMS AS INDICATED.
- LVL FRAMING SHALL BE LAMINATED DOUGLAS FIR OR SOUTHERN PINE (GP LAM BY GEORGIA PACIFIC OR MICROLAM BY TRUS-JOIST OR EQUAL) MEETING THE FOLLOWING MINIMUM ALLOWABLE STRESS CRITERIA: FB (BENDING STRESS) = 2600 PSI
- FV (HORIZ. SHEAR STRESS) = 285 PSI
- E (MODULUS OF ELASTICITY) = 1,900,000 PSI FC (COMPRESSIONS PERPENDICULAR TO GRAIN) = 750 PSI
- PREFABRICATED WOOD I-JOISTS (TJI):
- PROVIDE TJI JOISTS AS INDICATED. TJI JOISTS TO BE AS MANUFACTURED BY TRUS-JOIST
- MISCELLANEOUS LUMBER: PROVIDE WOOD FOR SUPPORT OR ATTACHMENT OF THE WORK INCLUDING NON-BEARING PARTITIONS, CANT STRIPS, BUCKS, NAILERS, BLOCKING, FURRING, GROUNDS, STRIPPING AND SIMILAR MEMBERS. PROVIDE LUMBER OF SIZES AND SHAPES INDICATED. GRADE: SPRUCE-PINE-FIR STUD GRADE AS GRADED BY NLGA.

- PLYWOOD ROOF SHEATHING: APA RATED SHEATHING, SPAN RATING AS REQUIRED TO SUIT SUPPORT SPACING INDICATED; EXPOSURE DURABILITY 1; SANDED; OR ADVANTECH.
- FASTENERS AND ANCHORS: FURNISH ITEMS OF ROUGH HARDWARE, METAL CONNECTORS, BOLTS, ETC., REQUIRED TO COMPLETE THE WORK. BOLTS, NUTS AND WASHERS SHALL BE HOT DIPPED ELECTRO GALVANIZED STEEL.
- WOOD PRESERVATIVE (PRESSURE TREATMENT): AWPA TREATMENT ACQ USING WATER BORNE PRESERVATIVE WITH 0.40 PERCENT RETAINAGE.
- SET STRUCTURAL MEMBERS LEVEL AND PLUMB, IN CORRECT POSITION.
- MAKE PROVISIONS FOR ERECTION LOADS, AND FOR SUFFICIENT TEMPORARY BRACING TO MAINTAIN STRUCTURE SAFE, PLUMB, AND IN TRUE ALIGNMENT UNTIL COMPLETION OF ERECTION AND INSTALLATION OF PERMANENT BRACING.
- PLACE HORIZONTAL MEMBERS, CROWN SIDE UP.
- CONSTRUCT LOAD BEARING FRAMING FULL LENGTH WITHOUT SPLICES.
- SECURE ROOF SHEATHING WITH LONGER EDGE PERPENDICULAR TO FRAMING MEMBERS AND WITH ENDS STAGGERED AND SHEET ENDS OVER
- USE SHEATHING CLIPS BETWEEN SHEETS BETWEEN ROOF FRAMING MEMBERS.
- WHERE TONGUE AND GROOVE PLYWOOD IS USED, FULLY ENGAGE TONGUE AND GROOVE EDGES.
- 11. SECURE WALL SHEATHING WITH LONG DIMENSION PERPENDICULAR TO WALL STUDS, WITH ENDS OVER FIRM BEARING AND STAGGERED.
- FRAMING MEMBERS: 1/4 INCH FROM TRUE POSITION, MAXIMUM. SURFACE FLATNESS OF FLOOR: 1/4 INCH IN 10 FEET MAXIMUM, AND 1/2 INCH IN 30 FEET MAXIMUM.
- ALL POSTS AND COLUMNS FROM HEADERS AND BEAMS SHALL BEAR CONTINUOUSLY TO CONCRETE FOUNDATIONS INCLUDING BLOCKING IN FLOOR AND ROOF SPACES. BLOCKING SHALL BE OF THE SIZE AND SHAPE TO CARRY THE REQUIRED LOADING.
- ALL BOTTOM BEARING PLATES, FOR STUD WALLS OR BEAM BEARING, SHALL BE ANCHORED TO THE FOUNDATION WITH 1/2" DIAMETER ANCHOR BOLTS AT 4'-0" ON CENTER, UNLESS NOTED OTHERWISE.
- 15. ALL BEARING WALLS SHALL BE BLOCKED AT 4'-0" ON CENTER, VERTICALLY, UNLESS NOTED OTHERWISE.
- ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESERVATIVE PRESSURE TREATED, P.P.T.
- ALL FASTENERS FOR PRESSURE TREATED WOOD TO BE G90 HOT-DIPPED GALVANIZED.
- ALL HANGERS FOR PRESSURE TREATED WOOD TO BE G90 HOT-DIPPED GALVANIZED PROVIDE 1/4" NOMINAL GAP BETWEEN WOOD FRAMING AND HORIZONTAL FACES OF CONCRETE WALLS.

### BASIS OF DESIGN

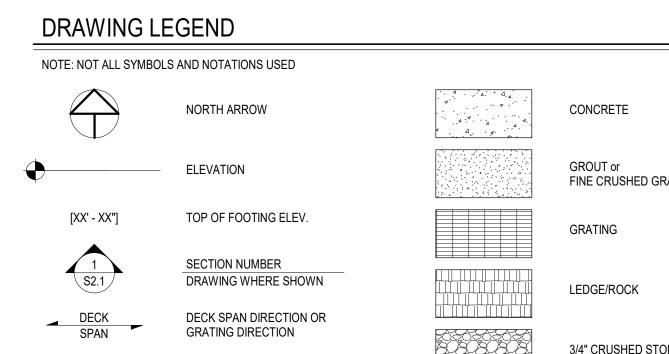
1.	Build	ing Code:	IBC 2018
2.	Dead	Loads:	
	a.	Roof Dead Load:	10 psf
3.	Live	Loads:	
	a.	Roof Live Load:	Snow Load Governs
4.	Roof Snow Load:		
	a.	Ground Snow Load, P <sub>q</sub> :	90 psf
	b.	Flat Roof Snow Load, P <sub>f</sub> :	70 psf
	C.	Snow Exposure Factor, C <sub>e</sub> :	1
	d.	Snow Load Importance Factor, I:	1
	e.	Thermal Factor, C <sub>t</sub> :	1.2
5.	Wind Design Data:		
	a.	Basic Wind Speed (3-second gust), V:	115 mph
	b.	Wind Exposure:	C
	C.	Internal Pressure Coefficients:	+/55
	d.	Components and Cladding Wind Pressure:	per ASCE 7
6.	Earthquake Design Data:		
	a.	Seismic Importance Factor, I:	1
	b.	Risk Category:	II.
	C.	Mapped Spectral Response Acceleration, S <sub>S</sub> :	0.255
	d.	Mapped Spectral Response Acceleration S <sub>1</sub> :	0.071
	e.	Site Class:	D
	f.	Spectral Response Coefficient, S <sub>DS</sub> :	0.271
	g.	Spectral Response Coefficient, S <sub>D1</sub> :	0.114
	h.	Seismic Design Category:	В
	i.	Basic Seismic-Force-Resisting System:	LIGHT-FRAME (WOOD) SHEAR WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE
	j.	Analysis Procedure Used:	Equivalent Lateral Force Procedure
_			

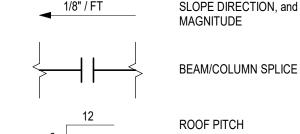
3000 psf

# ABBREVIATIONS

Allowable Soil Bearing Pressure:

AB	ANCHOR BOLT	MC	MOMENT CONNECTION
AFF	ABOVE FINISH FLOOR	N.S.	NEAR SIDE
AL	ALUMINUM	ос	ON CENTER
B.O.F.	BOTTOM OF FOOTING	P#	PIER DESIGNATION
DWG	DRAWING	PL	PLATE
E.F.	EACH FACE	SS	STAINLESS STEEL
ELEV.	ELEVATION	STD	STANDARD
EP	EMBED PLATE	T.O.C.	TOP OF CONCRETE
EQ	EQUAL	T.O.S.	TOP OF STEEL
E.S.	EACH SIDE	T.O.SHELF	TOP OF SHELF
E.W.	EACH WAY	T.O.W.	TOP OF WALL
EX.	EXISTING	TYP.	TYPICAL
F#	FOOTING DESIGNATION	U.N.O.	UNLESS NOTED OTHERWISE
FND	FOUNDATION	V.I.F.	VERIFY IN FIELD
F.S.	FAR SIDE		
H.T.	HEAVY TIMBER		







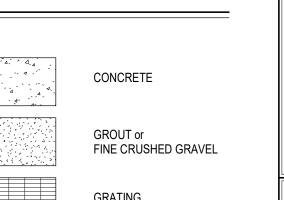


FOOTING STEP









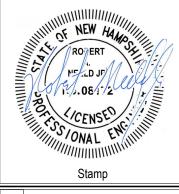
3/4" CRUSHED STONE

COMPACTED GRANULAR FILL RIGID INSULATION

UNDISTURBED SUBGRADE

CMU BLOCK BRICK

**PERMIT** April 7, 2023



GINEE

SH 0 S S ш

Designed By: Checked By: Drawn By:

2023-03-31

EV Project #23119

