ADDENDUM

April 29, 2015

Addendum No. 1

The State of Connecticut
Department of Housing (DOH)
Community Development Block Grant
Disaster Recovery Program (CDBG-DR)
Owner Occupied Rehabilitation and Rebuilding Program (OORR)

Application No. 1217
Myles Residence
8 Knorr Street
Norwalk, CT 06854

To All Prospective Bidders:

This Addendum shall become part of the Contract and all bidders shall be bound thereby.

The date for the Bid Opening **HAS NOT CHANGED**. Sealed bids will be accepted until 4:00 p.m. on Friday, May 15, 2015.

The following changes and/or clarifications are hereby made to the Contract Documents dated February 27, 2015 for the above captioned project.

A. QUESTIONS & CLARIFICATIONS

1. Attached is a copy of the Sign-In Sheet from the Mandatory Pre-bid Walk-through held on Friday, April 24, 2015 at 2:00PM at the Project Site.
2. All requests for information, substitutions and questions, shall be brought to the attention of the Architect no later than Friday, May 08, 2015 by 12:00PM.

B. THE FOLLOWING CHANGES SHALL BE MADE TO SPECIFICATIONS:

1. **REPLACE:** Section 02200 – Excavation, Section 02215 – Fill and Backfill, Section 03300 – Cast-In-Place Concrete, Section 06100 Rough Carpentry.
   A. See attached.

C. THE FOLLOWING CHANGES SHALL BE MADE TO THE DRAWINGS:

1. **REPLACE:** Drawings S-1.0 and S-2.0.
   A. See attached.

END OF ADDENDUM #1

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Capital Studio Architects
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860.289.3262 fax 860.289.3163
capitalstudios.net

MANDATORY WALK-THROUGH SIGN-IN SHEET

Project:	1347-29 1217 Myles Residence	**Meeting Date:**	Friday, April 24, 2015 @ 2:00 PM
Facilitator:	David Holmes, Capital Studio Architects	**Place/Room:**	8 Knorr Street, Norwalk, CT

Name	Company	Phone	E-Mail / Fax
PLEASE PRINT CLEARLY			
David Holmes	**Capital Studio Architects, LLC**	**860-289-3262**	**dholmes@capitalstudio.net**
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Mark Walonski		**860-637-4022**	**mwalonski@pellactny.com**

SECTION 02200 - EXCAVATION

PART 1 - GENERAL

1.1 - RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Special Conditions, and Division 1 Specification sections, apply to work specified in this Section.

1.2 - WORK INCLUDED

A. Excavate for new footings for existing building, new addition foundation, and new slabs on grade.

B. Trench for site utilities as shown on the Drawings.

C. Coordinate with lifting contractor as per schedule and location of cribbing.

1.3 – RELATED WORK SPECIFIED ELSEWHERE

A. Fill and Backfill is specified in Section 02215.

B. Concrete operations are specified in Section 03300.

1.4 - PROJECT CONDITIONS

A. Verify that survey bench mark and intended elevations for the Work are as indicated.

B. Protect bench marks, survey control points, existing structures, fences, sidewalks, paving, and curbs from excavating equipment and vehicular traffic.

C. Notify “Call Before You Dig” prior to beginning the work.

D. Existing house will be located approx. 10’-0” above existing grade during excavation operations. Garage will remain in place. Existing garage/house connector will be demolished and re-built.

PART 2 - PRODUCTS

NOT USED

PART 3 - EXECUTION

3.1 - PREPARATION

A. Identify required lines, levels, contours, and datum locations.

B. Locate, identify, and protect utilities that remain and protect from damage.

C. Notify utility company to remove and relocate utilities as required.

3.2 - EXCAVATING

A. Excavate to accommodate new structures and construction operations. Existing garage to remain.

B. Notify Architect of unexpected subsurface conditions and discontinue affected Work in area until notified to resume work.

C. Slope banks of excavations deeper than 4 feet to angle of repose or less until shored.

D. Do not interfere with 45 degree bearing splay of foundations.

E. Cut utility trenches wide enough to allow inspection of installed utilities.

F. Hand trim excavations. Remove loose matter.

G. Remove lumped subsoil, boulders, and rock up to 1/3 cu yd measured by volume.

H. Correct areas that are over-excavated and load-bearing surfaces that are disturbed; see Section 02215.

I. Grade top perimeter of excavation to prevent surface water from draining into excavation.

J. Remove excavated material that is unsuitable for re-use from site.

K. Stockpile excavated material to be re-used in area designated on site. Protect from erosion.

L. Remove excess excavated material from site.

3.3 - PREPARATION FOR UTILITY PLACEMENT

A. Cut out soft areas of subgrade not capable of compaction in place. Backfill with structural fill.

B. Compact subgrade to density equal to or greater than requirements for subsequent fill material.

C. Until ready to backfill, maintain excavations and prevent loose soil from falling into excavation.

3.4 - FIELD QUALITY CONTROL

A. Provide for visual inspection of load-bearing excavated surfaces before placement of foundations at new and existing building.

3.5 - PROTECTION

A. Prevent displacement of banks and keep loose soil from falling into excavation; maintain soil stability.

B. Protect bottom of excavations and soil adjacent to and beneath foundation from freezing.

C. Protect load bearing cribbing installed by lifting contractor.

END OF SECTION 02200

SECTION 02215 - FILL AND BACKFILL

PART 1 - GENERAL

1.1 - RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Special Conditions, and Division 1 Specification sections, apply to work specified in this Section.

1.2 - WORK INCLUDED

A. Filling, backfilling, and compacting for building volume below grade, footings, slabs-on-grade, and utilities within the building perimeter. Contractor shall provide fill as required to achieve required elevation of new and existing building floor slabs.

B. Backfilling and compacting for utilities trenches shown on the Drawings. Contractor shall backfill and compact trenches to elevation of adjacent grade or as otherwise shown on the Drawings.

C. Prepare solid base for cribbing supports; location by lifting contractor.

1.3 – RELATED WORK SPECIFIED ELSEWHERE

A. Lawn & Planting Restoration is specified in Section 02900.

B. Concrete operations are specified in Section 03300.

1.4 - REFERENCES

A. ASTM C 136 - Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates; 2001.

B. ASTM D 698 - Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft3 (600 kN-m/m3)); 2000a.

C. ASTM D 1556 - Standard Test Method for Density and Unit Weight of Soil in Place by the Sand-Cone Method; 2000.

D. ASTM D 1557 - Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft3(2,700 kN-m/m3)); 2002.

E. ASTM D 2487 - Standard Practice for Classification of Soil for Engineering Purposes (Unified Soil Classification System); 2000.

F. ASTM D 3017 - Standard Test Method for Water Content of Soil and Rock in Place by

Nuclear Methods (Shallow Depth); 2001.

1.5 - SOURCE QUALITY CONTROL

A. Where fill materials are specified by reference to a specific standard, test and analyze samples for compliance before delivery to site.

B. If tests indicate materials do not meet specified requirements, change material and retest.

C. Provide materials of each type from same source throughout the Work.

1.6 - SUBMITTALS

A. Submit Compaction Density Test Reports.

B. Submit soil gradation reports for all types of materials.

1.7 - PROJECT CONDITIONS

A. Provide sufficient quantities of fill to meet project schedule and requirements. When necessary, store materials on site in advance of need.

B. When fill materials need to be stored on site, locate stockpiles as directed by the Owner.

1. Separate differing materials with dividers or stockpile separately to prevent intermixing.

2. Prevent contamination.

3. Protect stockpiles from erosion and deterioration of materials.

C. Verify that survey bench marks and intended elevations for the Work are as indicated.

D. Existing house will be located approx. 10’-0” above existing grade during backfill operations.

PART 2 - PRODUCTS

2.1 - FILL MATERIALS

A. General Fill: Subsoil excavated on-site, or off-site material.

1. Graded.

2. 100% passing 3 ½ inch, not more than 15% passing no. 200 sieve.

B. Gravel Fill: Subsoil excavated on-site, or off-site material.

1. Graded.

2. Free of lumps larger than 3 inches, rocks larger than 2 inches, and debris.

3. All structural fill shall be sand, sand/gravel, gravelly sand or processed material.

C. Controlled Structural Fill - Gravel: Pit run washed stone; free of shale, clay, friable material and debris.

1. Graded in accordance with ASTM C 136, within the following limits:

a. 3-½ inch sieve: 100 percent passing.
b. 1 inch sieve: 100 percent passing.
c. 3/4 inch sieve: 75 to 100 percent passing.
d. 3/8 inch sieve: 50 to 100 percent passing.
e. No. 4 sieve: 25 to 100 percent passing.
f. No. 200: 15 percent maximum passing.

D. Granular Fill - Pea Gravel: Natural stone; washed, free of clay, shale, organic matter.

1. Grade in accordance with ASTM D 2487 Group Symbol GM.

2. Graded in accordance with ATM C 136, within the following limits:

a. Minimum Size: 1/4 inch.
b. Maximum Size: 5/8 inch.

E. Sand: Natural river or bank sand; washed; free of silt, clay, loam, friable or soluble materials, and organic matter.

1. Grade in accordance with ASTM D 2487 Group Symbol SW.

2. Graded in accordance with ASTM C 136; within the following limits:

a. No. 4 sieve: 100 percent passing.
b. No. 14 sieve: 10 to 100 percent passing.
c. No. 50 sieve: 5 to 90 percent passing.
d. No. 100 sieve: 4 to 30 percent passing.
e. No. 200 sieve: 0 percent passing.

2.2 - ACCESSORIES

A. Geotextile Fabric: Non-biodegradable, woven, silt film.

PART 3 - EXECUTION

3.1 - EXAMINATION

A. Identify required lines, levels, contours, and datum locations.

B. Verify subdrainage, dampproofing, or waterproofing installation has been inspected.

3.2 - PREPARATION

A. Scarify and proof roll subgrade surface to a depth of 6 inches to identify soft spots.

B. Cut out soft areas of subgrade not capable of compaction in place. Backfill with fill as directed.

C. Compact subgrade to density equal to or greater than requirements for subsequent fill material.

D. Until ready to fill, maintain excavations and prevent loose soil from falling into excavation.

E. Compact base area under load bearing cribbing by lifting contractor.

3.3 - FILLING

A. Fill to contours and elevations indicated using unfrozen materials.

B. Fill up to subgrade elevations unless otherwise indicated.

C. Employ a placement method that does not disturb or damage other work.

D. Systematically fill to allow maximum time for natural settlement. Do not fill over porous, wet, frozen or spongy subgrade surfaces.

E. Maintain optimum moisture content of fill materials to attain required compaction density.

F. Granular Fill: Place and compact materials in equal continuous layers not exceeding 6 inches compacted depth.

G. Correct areas that are over-excavated.

1. Load-bearing foundation surfaces: Use structural fill, flush to required elevation, compacted to 95 percent of maximum dry density.
2. Other areas: Use general fill, flush to required elevation, compacted to minimum 95 percent of maximum dry density.

3. Compaction Density Unless Otherwise Specified or Indicated:

   a. Under paving, slabs-on-grade, and similar construction: 95 percent of maximum dry density.
   b. At other locations: 90 percent of maximum dry density.

4. Reshape and re-compact fills subjected to vehicular traffic.

3.4 - FILL AT SPECIFIC LOCATIONS

A. Use general fill unless otherwise specified or indicated.

B. Fill at building:

1. Use general fill within building perimeter. Use controlled structural fill under footings and pier foundations.

2. Fill up to subgrade elevations.

3. Maximum depth per lift: 8" prior to compaction.

4. Compact to minimum percent of maximum dry density as directed.

C. Buried Utility Piping and Conduits in Trenches:

1. Bedding: Use structural fill.

2. Cover with general fill.

3. Fill up to existing grade elevation.

4. Maximum depth per lift: 12" prior to compaction.

5. Compact to minimum percent of maximum dry density as directed.

3.5 - TOLERANCES

A. Top Surface of General Filling: Plus or minus 1 inch from required elevations.

B. Top Surface of Filling Under Paved Areas: Plus or minus 1 inch from required elevations.

3.6 - FIELD QUALITY CONTROL

A. Perform compaction density testing on compacted fill in accordance with ASTM D1556, ASTM D2167, ASTM D2922, or ASTM D3017.

B. If tests indicate work does not meet specified requirements, remove work, replace and retest.

C. All expenses in connection with tests specified herein shall be borne by the Owner. The testing laboratory selected to conduct the tests shall be approved by the Owner and the Architect.

3.7 - CLEAN-UP

A. Leave unused materials in a neat, compact stockpile.

B. Remove unused stockpiled materials, leave area in a clean and neat condition. Grade stockpile area to prevent standing surface water.

C. Leave borrow areas in a clean and neat condition. Grade to prevent standing surface water.

3.8 – REMEDIAL WORK

A. At the completion of the work, patch lawn areas disturbed by the work of this Contract. Provide additional topsoil, regrade and reseed as required.

B. Patch paved areas disturbed by trenching with the same surface material removed. See additional requirements in Section 01500, cutting and patching.

END OF SECTION 02215

SECTION 03300 - CAST-IN-PLACE CONCRETE

PART 1 -GENERAL

1.1 - RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Special Conditions, and Division 1 Specification sections, apply to work specified in this Section.

1.2 – WORK INCLUDED

A. Contractor shall furnish all labor, material, tools and equipment required to complete all cast-in-place concrete work as shown on the Drawings and specified herein.

1.3 - QUALITY ASSURANCE

A. The work of this Section shall conform to the current State of Connecticut Building Codes, which includes the 2003 International Building Code and 2009 International Residential Code, as amended and adopted by the State of Connecticut.

B. The work of this Section shall conform to all requirements of ACI 301, “Specifications for Structural Concrete for Buildings". Although the remainder of this Section states in condensed form, the pertinent provisions of that document, it shall be understood that it has been adopted in its entirety and may be referred to throughout the project for provisions not restated below.

C. Concrete floor and slab construction shall conform to the recommendations of ACI 302.IR, "Guide for Concrete Floor and Slab Construction".

D. The standards of the American Society for Testing and Material and the American Concrete Institute, referred to in these specifications by their serial designation and declared to be a part of these specifications, the same as if fully set forth herein.

1.4 - SUBMITTALS

A. Submit separate concrete mix designs and additives for each strength class of normal weight concrete and for pumped concrete.

B. Prepare for cold weather or hot weather conditions, if required.

C. Submit reinforcing drawings showing size and location of all rebar.

1.5 - STANDARDS

A. Applicable portions of the latest edition of the following codes and standards are hereby made part of this specification in their entirety as though fully set forth herein:

ACI 211.1	Proportions for Normal, Heavyweight, and Mass Concrete
ACI 214	Recommended Practice for Evaluation of Strength Test Results of Concrete
ACI 301	Specifications for Structural Concrete for Buildings
ACI 302	Guide for Concrete Floor Slab Construction
ACI 304	Recommended Practice for Measuring, Mixing, Transporting, and Placing Concrete
ACI 304R	Placing Concrete by Pumping Methods
ACI 305R	Hot Weather Concreting
ACI 306R	Cold Weather Concreting
ACI 309	Recommended Practice for Consolidation of Concrete
ACI 315	Details and Detailing of Concrete Reinforcement
ACI 318	Building Code Requirements for Reinforced Concrete

PART 2 - PRODUCTS

2.1 - MATERIALS

A. Concrete:

1. Cement shall be Type I or Type II Portland Cement, and shall conform to "Standard Specifications for Portland Cement: (ASTM C 150).

2. Aggregates for concrete of normal weight shall conform to "Standard Specification for Concrete Aggregates: (ASTM C 33).

3. Mixing water for concrete shall be fresh, clean, and potable.

B. Normal Weight Aggregates:

1. ASTM C33, aggregates shall be from a single source.

C. Air entraining admixtures:

1. ASTM C260

D. Water-reducing, retarding, and accelerating admixtures:

1. ASTM C494

2. Containing not more than 1% chloride ions.

E. Non-shrink grout:

1. Masterflow by Master Builders, SIKA, or approved equal.

F. Mix water shall be clean, fresh, and potable.

G. Curing compounds:

1. ASTM C309, Kure-n-Seal, or approved equal.

H. Vapor barrier:

1. Polyethylene of thickness as indicated on the Drawings.

2.2 - PROPORTIONING

A. Concrete compressive strength at 28 days:

1. 3,000 psi for concrete columns/piers.

2. .....3,500 psi for slabs on grade.

3. 3,000 psi for all other concrete.

B. Concrete proportions shall be selected in accordance with ACI 211.1 for normal weight concrete.

C. All concrete exposed to the weather shall be air-entrained with air content not less than 5% and not more than 7% by volume.

D. No air entrainment shall be used for interior concrete, including, but not limited to trowelled slabs on grade.

E. Water-cement ratio shall not exceed 0.50.

F. Maximum slump:

1. 4” for slabs

2. 5” for all other concrete

G. Minimum slump:

1. 2” for slabs.

2. 3” for all other concrete.

H. The nominal maximum size of coarse aggregate shall be not larger than:

1. 1/5 the narrowest dimension between sides of forms.

2. 1/3 the depth of slabs.

3. ¾ the minimum clear spacing between reinforcing bars.

I. All admixtures shall be approved by the Architect and the Engineer.

J. Concrete proportions shall be established on the basis of previous field experience or laboratory trial batches with the same materials to be employed in the work.

K. Use accelerating admixture in all concrete placed at ambient temperatures below 50 degrees F.

PART 3 - EXECUTION

3.1 - FORMWORK

A. Forms shall result in a final structure that conforms to shapes, lines, and dimensions as required by the design drawings and specifications.

B. Forms shall be substantial and sufficiently tight to prevent leakage of mortar or concrete.

C. Forms shall be properly braced or tied together to maintain position and shape.

D. Formwork shall conform to ACI 347.

E. Form ties shall be type with break off or screw-out ends and plugs which may be easily removed at least 3/4" back of surface of the concrete.

F. Before placing reinforcing steel or concrete, the surface of forms shall be covered with an acceptable form release coating material that will effectively prevent absorption of moisture, prevent bond with the concrete, and not stain the concrete surface.

G. Excess form release coating material shall not stand in puddles in the forms nor shall it come in contact with hardened concrete against which fresh concrete or reinforcing steel is to be placed.

H. Formwork for columns, walls, and other parts not supporting the weight of the concrete may be removed as soon as the concrete has hardened sufficiently to resist damage from removal operations.

I. Forms and shoring in the formwork used to support the weight of concrete in beams, slabs and other structural members shall remain in place until the concrete has reached a minimum strength of 80% of the specified 28 day compressive strength.

J. Install bulkheads, boxes, etc., for openings required for piping, conduits, and other equipment for other trades.

K. Clean forms just before concrete placement. Remove all chips, wood, sawdust, dirt or other debris.

3.2 - REINFORCEMENT

A. Reinforcing bars shall be ASTM A615 grade 60. All reinforcement required to be welded to structural steel shall be low alloy, Grade 60, deformed steel bars conforming with ASTM A 706.

B. Reinforcement shall be maintained free from dust, mud, rust, oil or ice.

C. Fabrication and placement of reinforcing steel shall be in accordance with CRSI “Manual of Standard Practice” and CRSI “Placing Reinforcing Bars.”

D. Minimum cover on reinforcement:

1. Concrete cast against earth ..... 3"
2. Concrete exposed to earth or weather:
   a. #6 and larger ..... 2”
   b. #5 and smaller ..... 1 ½"
3. Interior surfaces:
   a. slabs, walls..... ¾”
   b. beams, columns ..... 1 ½"

E. Splices shall be lapped 48 bar diameters and securely tied.

F. Heat shall not be used to bend reinforcing bars.

G. Bar chairs and slab bolsters shall have plastic tips where concrete surface is exposed to view.

H. Welded wire fabric: ASTM A185 and A82.

I. Welded wire fabric reinforcing shall be placed at 1” clear from top of slabs on grade. Place mesh on concrete brick or chairs and raise to position in slab as concrete is placed.

J. Welded wire fabric shall be furnished in flat sheets, not rolls.

K. Welded wire fabric shall be lapped at least 8 inches between outermost cross wires and tied at all edges.

L. Welded wire fabric shall be fabricated and installed in accordance with "Manual of Standard Practice - Welded Wire Fabric", Wire Reinforcement Institute, Inc.

M. At all intersecting walls and footings, provide additional horizontal “L” shaped dowels of the same size and spacing as reinforcing indicated in sections. All bars shall lap a minimum of 48 bar diameters with horizontal reinforcement.

3.3 - JOINTS AND EMBEDDED ITEMS

A. Maximum length of pours between wall construction joints shall be 40 feet. Location of joints shall be approved by the Architect.

B. Wall construction joints shall have a 2 x 4 key and horizontal wall reinforcement shall be continued across joints.

C. Saw-cut control joints in slabs on grade at 4’-0” x 4’-0” panels, per column bay maximum.

D. Slab control joints shall be cut within 24 hours of concrete placement.

E. Slab control joints shall be saw-cut 1/8" wide and to a depth of 1/4 the slab thickness.

F. Welded wire fabric shall extend through slab control joints.

G. Saw-cut control joints shall be filled with joint sealant.

H. Premolded joint filler shall be non-extruding and resilient bituminous type conforming to ASTM D1751.

I. Anchor bolts and other embedded items shall be positioned accurately and supported against displacement.

J. All sleeves, inserts, anchors, and embedded items required for adjoining work or for its support shall be placed prior to concreting.

K. All contractors whose work is related to the concrete or must be supported by it shall be given ample notice and opportunity to introduce and/or furnish embedded items before the concrete is placed.

L. Conduits and pipes of aluminum shall not be embedded in concrete.

3.4 - PRODUCTION OF CONCRETE

A. Concrete shall be batched, mixed and transported in accordance with ASTM C94 and ACI 304.

B. Batching plant equipment and facilities shall conform to "Certification of Ready Mixed Concrete Production Facilities" of the National Ready Mixed Concrete Association.

C. Admixtures shall be charged into the mixer as solution and shall be measured by means of an acceptable mechanical dispensing device. The liquid shall be considered a part of the mixing water.

D. If more than one admixture is used in the concrete, they shall be added separately.

E. Ready-mixed concrete trucks shall not be loaded in excess of their rated capacity.

3.5 - PLACING

A. Do not pour concrete until forms and subgrade have been thoroughly cleaned and are free of frost, mud, ice, or water.

B. Convey concrete from truck to forms as rapidly as possible by methods which will prevent segregation or loss of ingredients. Place in forms as nearly as practicable to its final position.

C. When placement is started, carry on as a continuous operation until the placing of a section is complete. Cold joints are not permitted.

D. Consolidate concrete by mechanical vibration. Do not use vibrators to transport concrete in forms.

E. No concrete shall be placed in freezing weather or when freezing weather is forecast by the Weather Bureau to occur within 36 hours, unless special measures and precautions are taken to heat the water and aggregates and to protect the concrete from rapid drying.

F. No concrete shall be placed when the temperature is greater than 90 F. unless special measures are taken to cool the water and aggregate and to protect the concrete from rapid drying.

G. No concrete shall be placed during rain, sleet, or snow unless protection is provided.

H. The maximum elapsed time between introduction of water and placing shall be one hour.

3.6 - FINISHING OF FORMED SURFACES

A. Form tie holes shall be dampened and filled with mortar.

B. All formed surfaces exposed to view shall receive a grout rubbed finish within 24 hours of concrete placement.

C. Tops of walls shall be floated to a texture comparable to formed surfaces.

3.7 - SLABS

A. Interior slabs on grade shall be placed over a polyethylene vapor barrier.

B. Extreme care should be exercised during slab placement to insure that welded wire fabric is positioned as shown on the Drawings.

C. Slabs shall be constructed in accordance with ACI 302.

D. Interior slabs shall receive a steel trowel finish.

E. Finishing Tolerances: Finish floor slabs to true planes within 1/8" in 10 feet, as determined by a 10 foot straightedge placed anywhere on the slab in any direction.

3.8 - CURING AND PROTECTION

A. Concrete shall be maintained above 50 degrees F. and in a moist condition for at least the first 7 days after placement.

B. Provisions for curing of concrete shall be in accordance with ACI 308.

C. Curing compound shall be Sonneborn Kure-N-Seal or equal and must be reviewed for compatibility with floor finishes.

D. One coat of curing compound shall be applied to all slabs as soon as concrete is firm enough to walk on.

E. In hot weather, concrete shall be protected in accordance with ACI 305.

F. In cold weather, concrete shall be protected in accordance with ACI 306.

3.9 - INSPECTION AND TESTING

A. All expenses in connection with tests specified herein shall be borne by the Owner. The testing laboratory selected to conduct the tests shall be approved by the Architect, Engineer, and Owner.

B. A minimum of three (3) test specimens shall be made for each 50 cubic yards of concrete or not less than three (3) for each day's placement. Two (2) cylinders shall be tested at seven days and one (1) at 28 days. The specimens shall be carefully stored and transported so as not to damage them in any way. Records shall be kept, identifying each cylinder with the locations of placement from which test cylinders were taken.

C. Slump tests shall be performed when each set of test cylinders are cast.

D. If any concrete fails to develop the required 28 day strength, the Architect may order core tests at the Contractor's expense, and if the concrete in place is below strength, the Architect may order the removal and replacement of such concrete at the Contractor's expense, including any additional cost for the Architect's inspection and redesign.

E. The testing laboratory shall send copies of test reports to the Architect, Engineer, Contractor, Owner, and the local Building Department.

END OF SECTION 03300

SECTION 06100 - ROUGH CARPENTRY

PART 1 - GENERAL

1.1 - RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Special Conditions, and Division 1 Specification sections, apply to work specified in this Section.

1.2 – WORK INCLUDED

A. Furnish and install all new wood framing as shown on the Drawings and as specified herein.

1.3 - RELATED WORK SPECIFIED ELSEWHERE

A. Interior woodwork exposed to view is specified in Section 06200.

1.4 - REFERENCE STANDARDS

A. Use lumber and plywood grade-marked in accordance with the following standards:

1. Southern Pine: "Standard Grading Rules for Southern Pine Lumber", published by Southern Pine Inspection Bureau.

2. Plywood: Comply with PS 1 (ANSI A 199.1) or, for products not manufactured under PS 1 provisions, with applicable APA Performance Standard for type of panel indicated.

B. Preservative pressure treated lumber and plywood shall comply with AWPA C2 and C9, respectively, and with the requirements listed below:

1. Wood for ground contact use: AWPB LP-22.

2. Wood for above-ground use: AWPB LP-2.

C. Requirements for all lumber:

1. Lumber shall be seasoned to 19% or less moisture content.

2. Lumber and plywood shall be grade marked to show conformity to specifications.

3. All materials shall conform to ‘FEMA’ *Technical Bulletin 2, Flood Damage–Resistant Materials Requirements*.

D. Requirements for all fasteners, timber anchors, connectors, and post bases:

1. All fasteners, timber anchors, connectors, and post bases and shall comply with 'FEMA' *Technical Bulletin 8-96(FIA-TB-8), Corrosion Protection for Metal Connectors in Coastal Areas.*

1.5 – SUBMITTALS

A. Submit all lumber materials for approval by Architect/Engineer.

B. Submit all LVL, I joists and accessories for approval by Architect/Engineer.

PART 2 - PRODUCTS

2.1 - MATERIALS

A. Sills, bucks, blocking, and nailers for use in conjunction with wood construction and where exposed to concrete, masonry, roofing or other sources of dampness: Any species of structural lumber, construction grade, pressure treated, meeting the requirements listed above.

B. Joists, rafters, headers, stringers, beams, posts, studs, plates and other structural support members except those listed below: Douglas Fir-Larch, No.1 grade or better.

C. Blocking, nailers, and other non-structural uses: Any species of structural lumber, construction grade or better.

D. Exterior wall sheathing: nominal 1/2" tongue & groove, APA rated sheathing, Exposure 1.

E. Roof Sheathing: Nominal 5/8", square edge, APA Rated Sheathing, Exposure 1.

F. Flooring Plywood: Nominal ¾" tongue & groove "Sturd-I-Floor" combination subfloor underlayment, or approved equal.

1. Plywood flooring shall be INT-APA Grade C-D plugged, with exterior glue and contain four (4) inner plies.

G. Flooring underlayment: APA rated underlayment, exposure 1, with sanded face or APA rated underlayment A-C, exterior grade, with sanded face.

H. Laminate veneer lumber (LVL): Red Lam or equal: Fb= 2800 psi, E= 2000 ksi

I. I Joists: Red Built Engineered Wood Products, or approved equal.

J. Exterior Wood: Coastal Wood Products – LVL for seaside exposure.

PART 3 -EXECUTION

3.1 – WORKMANSHIP

A. Produce joints which are tight, true and well nailed, with members assembled in accordance with the Drawings and with pertinent codes and regulations.

B. Selection of lumber pieces:

1. Carefully select the members.

2. Select individual pieces so that knows and obvious defects will not interfere with placing bolts or proper nailing, and will allow making of proper connections.

3. Cut out and discard defects which render a piece unable to serve its intended function.

4. Lumber may be rejected by the Architect, whether or not it has been installed, for excessive warp, twist, bow, crook, mildew, fungus, or mold, as well as for improper cutting and fitting.

C. Do not shim any framing component.

3.2 – GENERAL FRAMING

A. General:

1. Provide framing members of the size(s) and spacing shown on the Drawings.

2. In addition to framing operation normal to the fabrication and erection indicated on the Drawings, install solid wood blocking and backing required for fastening of grab bars and other accessories as required. All exterior blocking to be pressure treated.

3. Do not notch, cut, or bore members for pipes, ducts, or conduits, or for other reasons except as shown on the Drawings or as specifically approved in advance by the Architect.

B. Bearings:

1. Make bearings full unless otherwise indicated on the Drawings.

2. Finish bearing surface on which structural members are to rest so as to give sure and even support. Provide pressure treated wood at foundation wall bearing.

3. Where framing members slope, cut or notch the ends as required to give uniform bearing surface.

3.3 – ALIGNMENT

A. On framing members to receive a finished surface, align the finish subsurface to vary not more than 1/8" from the plane of surfaces of adjacent furring and framing members.

3.4 – INSTALLATION OF PLYWOOD SHEATHING

A. Placement:

1. Place plywood with face grain perpendicular to supports and continuously over at least two supports, except where otherwise shown on the Drawings.

2. Center joints accurately over supports, unless otherwise shown on the Drawings.

B. Protect plywood from moisture by use of waterproof coverings until the plywood in turn has been covered with the next succeeding component or finish.

3.5 – INSTALLATION OF PLYWOOD UNDERLAYMENT

A. Preparation: Allow plywood underlayment to acclimate to environmental moisture conditions of the installation area prior to beginning installation.

B. Placement:

1. Place plywood underlayment with face grain (long dimension) perpendicular to supports and continuously over at least two supports. Stagger underlayment end joints by 16" minimum. Offset joints from joints of subfloor below by 2" minimum.

2. The subfloor over which the underlayment will be installed must be smooth, dry, properly fastened and free of joint swelling, warping, or delamination.

3. Position the edges of plywood panels net (lightly butted) without excessive tightness.

4. Fasten the underlayment using 3d (1 ¼") ring-shank nails for plywood panels up to ½" thick. Narrow crown chisel point staples may be used in lieu of nails on panels up to 3/8" thick.

5. Position the fasteners every 3" around edges and 6" in the body of the sheet. Place fasteners so they do not penetrate framing (joists). In structures where the joists and subfloor materials were subjected to wet weather or where the materials are of unseasoned lumber, to prevent nail popping, it is advisable to use staples set 1/32" below the surface to fasten the underlayment. If it is necessary to use nails, set the heads 1/32" below the surface; filling nail holes is not recommended.

6. Sand any uneven joints level and fill any gaps between joints in excess of 1/32" with a recommended latex patching compound prior to flooring installation.

7. For optional adhesive application, see 3.6 F. below.

3.6 - FASTENING

A. Fasteners: All fasteners shall comply with the reference in 1.4, D. above.

1. Where rough carpentry is exposed to weather, in ground contact, or in area of high relative humidity, provide, at a minimum, fasteners with hot-dip zinc coating complying with ASTM A 153/A 153M, or stainless steel.

2. Power-Driven Fasteners: CABO NER-272.

3. Bolts: Steel bolts complying with ASTM A 307, Grade A; with ASTM A 563 hex nuts and, where indicated, flat washers. At a minimum, all bolts set in concrete or exposed to the weather shall be galvanized.

B. Metal framing anchors: All timber connection hardware, post bases, and the like shall comply with the reference in 1.4, D. above.

1. Provide timber connection hardware by Simpson or approved equal of the gauges shown on the Drawings, or as otherwise required. At a minimum, provide galvanized anchors for attaching carpentry to masonry or concrete, and for all exterior applications.

C. Nailing:

1. Use only common wire nails or spike of the sizes required in the 2009 International Residential Code, as amended, except where otherwise specifically noted on the Drawings. Contractor shall also comply with the "Wood Framed Construction Manual", exposure 3, where it applies.

2. For conditions not covered in the Code, provide penetration into the piece receiving the point of not less than ½ the length of the nail or spike, provided, however, that 16d nails may be used to connect tow pieces of 2" (nominal) thickness.

3. Nail without splitting wood.

4. Pre-bore as required.

5. Remove split members and replace with members complying with the specified requirements.

6. All fastening to comply with American Wood Council, WFCA – 100 mph, or as stipulated in the 2009 International Residential code, as amended by the State of Connecticut.

D. Bolting:

1. Drill holes 1/16” larger in diameter than the bolts being used.

2. Drill straight and true from one side only.

3. Do not bear bolt threads on wood, but use washers under head and nut where both bear on wood, and use washers under all nuts.

E. Screws:

1. For lag screws and wood screws, pre-bore holes same diameter as root of threads, enlarging holes to shank diameter for length of shank.

2. For screws at plywood underlayment, countersink screws such that head of screws is 1/32” below the uppermost surface of the plywood.

F. Adhesives:

1. Contractor shall insure the stability and solidity of the underlayment installation. Contractor may opt to use an approved adhesive construction below underlayment.

2. Any adhesive used shall be troweled on and applied over the entire surface of the underlayment, where underlayment is over another solid surface.

3. Use only adhesives compatible with product being adhered. Adhesives should not be used to install flooring underlayment unless it is known that they will not stain resilient floor coverings.

4. Apply adhesive only in accordance with manufacturer’s instructions and recommendations.

END OF SECTION 06100

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SOIL BORING LOG -WELTI

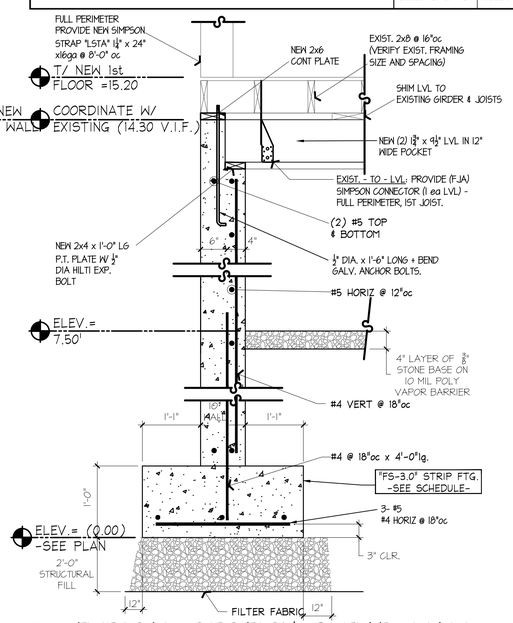
CLARENCE WELTI ASSOC., INC. P.O. BOX 397 GLASTONBURY, CONN 06033	CLIENT: CAPITAL STUDIO ARCHITECTS	PROJECT NAME: MYLES RESIDENCE	LOCATION: 8 KNORR STREET, NORWALK, CT

	AUGER	CASING	SAMPLER	CORE BAR.	OFFSET		
TYPE	HSA		SS		LINE & STA.	SURFACE ELEV.	HOLE NO. B-1
SIZE I.D.	3.75"		1.375"		N. COORDINATE	GROUND WATER OBSERVATIONS: AT 6.0 FT. AFTER 0 HOURS	START DATE 4/2/15
HAMMER WT.			140lbs			AT FT. AFTER HOURS	
HAMMER FALL			30"		E. COORDINATE		FINISH DATE 4/2/15

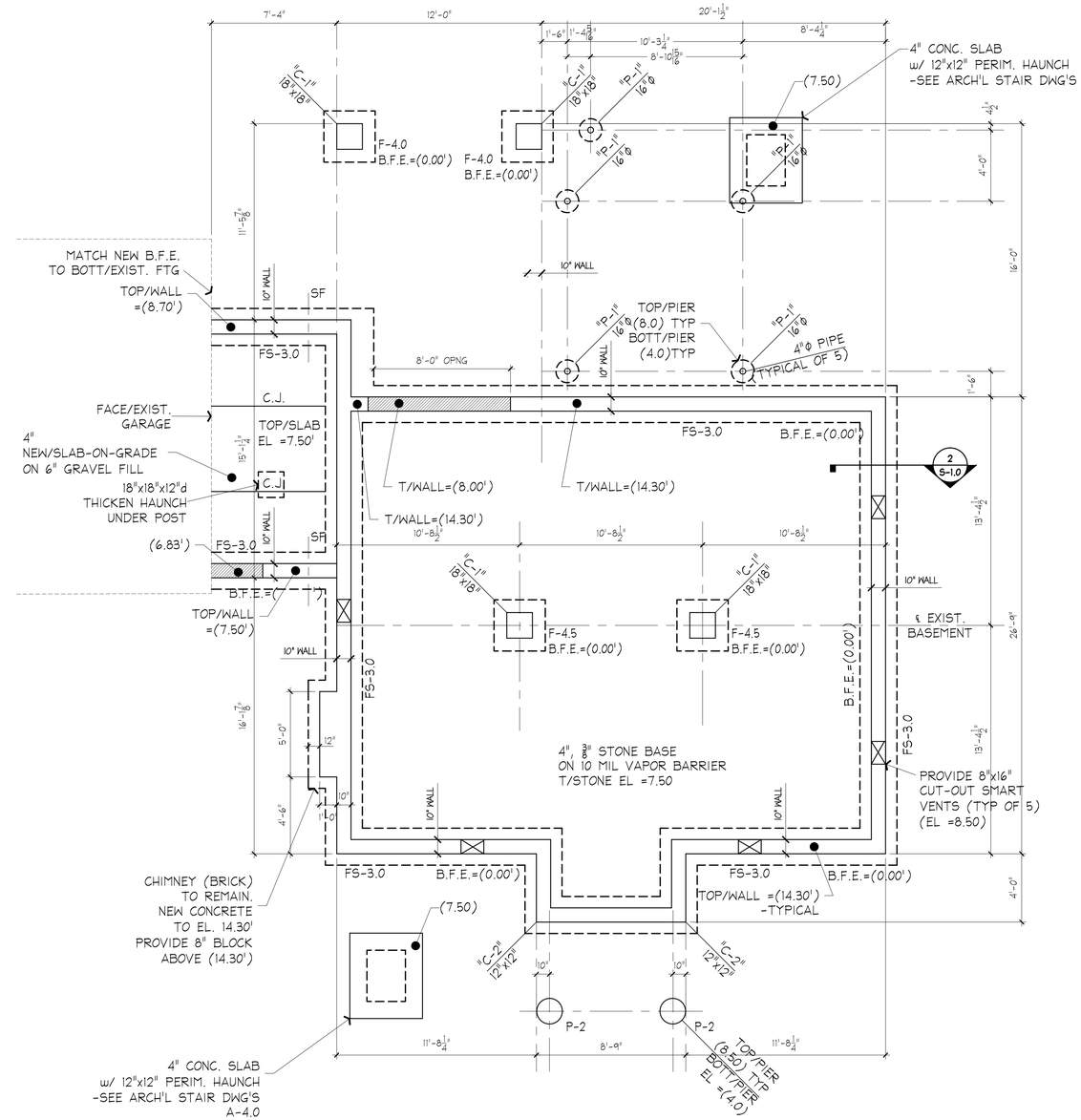
DEPTH	SAMPLE NO.	BLOWS/6"	DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0	1	2-3-6-4	0.00'-2.00'		TOPSOIL	
					BR.FINE-MED.SAND, LITTLE SILT, TRACE GRAVEL - FILL 0.5	
	2	2-1-1-1	2.00'-4.00'		GREY ORGANIC SILT, TRACE SHELLS 1.5	
	3	1-0-1-1	4.00'-6.00'			
5	4	1-1-1-2	6.00'-8.00'		GREY/BR.ORAGANIC SILT, LITTLE ROOTS 6.0	
	5	1-0-2-4	8.00'-10.00'			
10	6	18-21-32-22	10.00'-12.00'		GREY FINE-CRS.SAND, LITTLE GRAVEL, TRACE SILT 10.0	
15	7	15-16-11	15.00'-16.50'			
20	8	7-8-7	20.00'-21.50'		GREY FINE-MED.SAND, SOME SILT, TRACE GRAVEL 20.0	
25	9	12-20-25	25.00'-26.50'			
30	10	24-29-32	30.00'-31.50'			
					BOTTOM OF BORING @ 31.5' 31.5	
35						

LEGEND: COL. A:
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER: T. CZMYR
INSPECTOR:
SHEET 1 OF 1 HOLE NO. B-1



2 S-1.0 TYPICAL SECTION @ EXT. WALL
SCALE: 3/4"=1'-0"



1 S-1.0 FOUNDATION PLAN
SCALE: 1/4"=1'-0"

FOOTING SCHEDULE

FS-3.0	3'-0"x1'-0" CONT 3-#5 CONT #4 @ 18"x 2'-6"LONG
F4.0	4'-0"x4'-0"x12" 4-#5 E.W.
F4.5	4'-6"x4'-6"x12" 5-#5 E.W.

PIER/TUBE SCHEDULE

NO:	SIZE:	REINF.
P-1	16"ϕ TUBE BOTT/PIER (-4'-0") BELOW FIN. GRADE	(2) #5 DOWEL INTO FOOTING
C-1	18" x 18"	(4) #6 DOWELS (EXTEND TO "F-4.5 & F-4.0 ") w/ #3 HOOPS @ 16"oc
P-2	12" ϕ SONO-TUBE BOTT/PIER EL =-4'-0" BELOW FIN. GRADE	

NOTES:

1. TOP/ CRAWL SPACE ELEV.= 0'-0" (LOCAL ELEV. 7.50') UNLESS NOTED THUS (±). ALL ELEVATIONS (+ OR -), 4" SLAB-ON-GRADE @ CONNECTOR. REINF W/ FIBER MESH.
2. CRAWL SPACE MATERIAL: 4" OF PROCESS GRAVEL OVER 10 MIL POLY VAPOR BARRIER
3. BFE INDICATES "BOTTOM OF FOOTING ELEVATION", ALL FOOTINGS TO BEAR ON 24" CONTROLLED STRUCTURAL FILL, COMPACTED IN 12" LIFTS.
4. EXTERIOR:
   4"ϕ, SCHED. 40 PIPE C.R.S., Fy =36 k.s.i.
   CAP PLATE: ⅜ x8 x8
   BASE PLATE: ½" x14 x14 w/ (4) ⅝"ϕ A.B. (GALV.)
   ALL STEEL PRIME & RUST PROOF PAINTED
5. VERIFY ALL EXISTING 1st FLOOR FRAMING (SIZE & LOCATION) BEFORE START OF "HOUSE LIFTING" OPERATIONS
6. NEW BFE (BOTT/FOOTING) IS BASED ON BORING LOG SOIL INFORMATION. VERIFY SOIL CONDITION BEFORE START OF WORK. REF: BORING LOGS -WELTI, (THIS DRAWING)

VERIFY IN FIELD

1. EXISTING FOUNDATION DIMENSIONS
2. DEPTH OF EXISTING FRAMING TO DETERMINE TOP/FND WALLS

CAPITAL STUDIO architects LLC
1379 MAIN STREET 860.289.3262
EAST HARTFORD CT. 06108 fax 860.289.3163

THE STATE OF CONNECTICUT DEPARTMENT OF HOUSING (DOH) COMMUNITY DEVELOPMENT BLOCK GRANT - DISASTER RECOVERY (CDBG-DR) OWNER OCCUPIED REHABILITATION and REBUILDING PROGRAM (OORR)

MYLES RESIDENCE REHABILITATION and MITIGATION APPLICATION No. 1217 8 KNORR ST. NORWALK, CT 06854

WML WILLIAM M. LAPOINT, PE
33379 Main Street
East Hartford, CT 06108
voice: 860.622.0840
wmlpe@snl.com

date	description	no.
revisions		

FOUNDATION PLAN

S-1.0

date	24 APR. 2015
drawn	JB
scale	AS SHOWN
checked	WML
project no.	
application no.	1217

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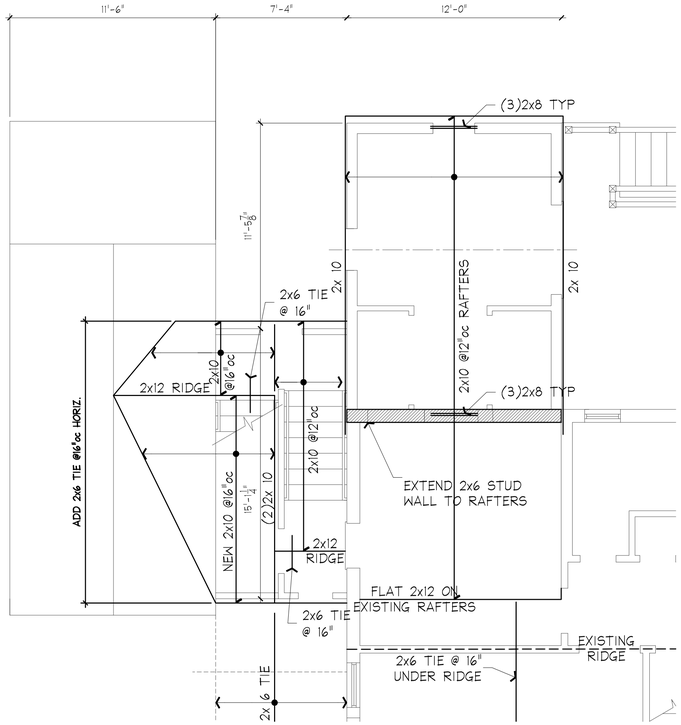
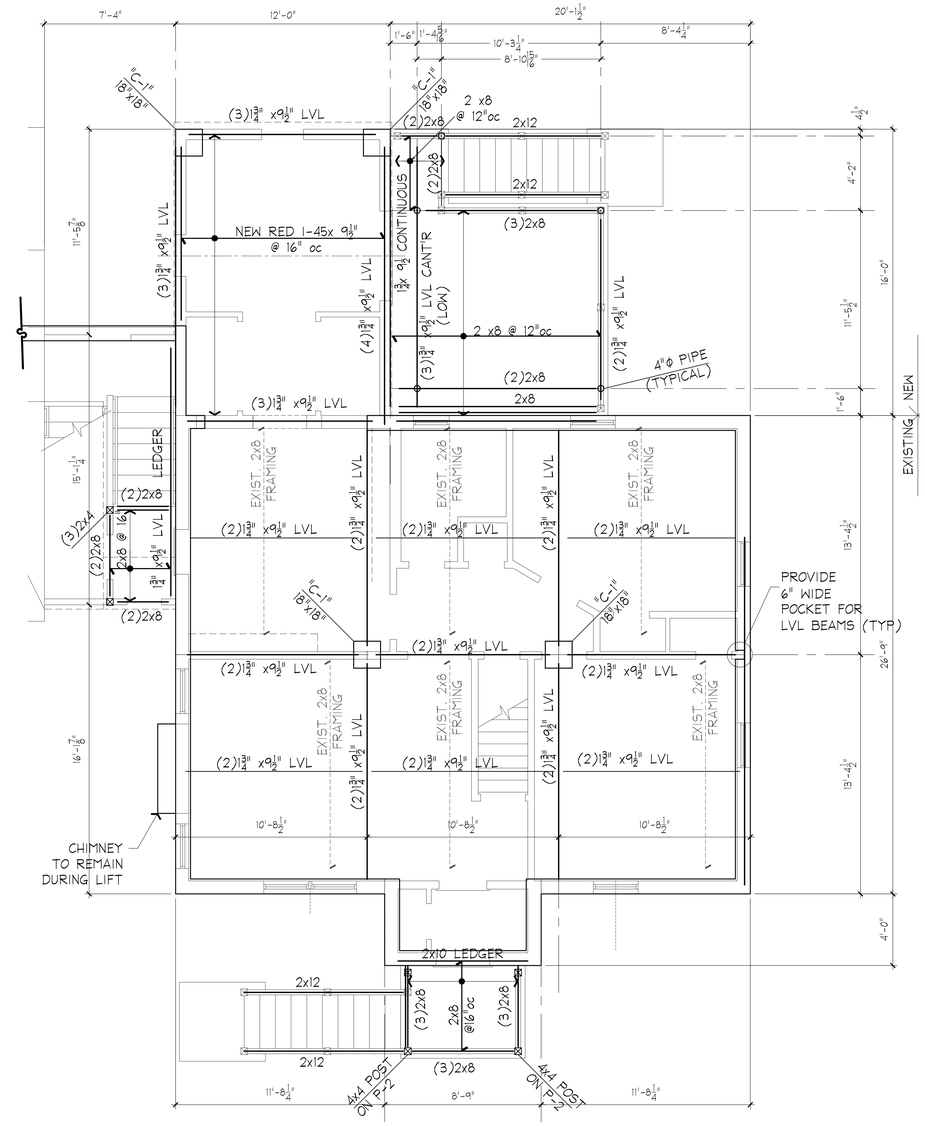


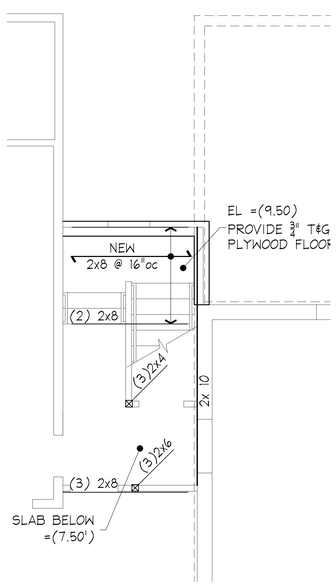
3 S-2.0 ROOF FRAMING PLAN

SCALE: 1/4"=1'-0"



1 S-2.0 EXISTING 1st FLOOR FRAMING PLAN w/ NEW SUB- FRAMING

SCALE: 1/4"=1'-0"



2 S-2.0 STAIR LANDING FRAMING PLAN

SCALE: 1/4"=1'-0"

DECK NOTES:

1. ALL FASTENERS TO BE GALV. OR S.S.
2. POST CONNECTIONS:
   CAP= PC2/EPC2 -SIMPSON STRONG-TIE
   BASE= CBQ66 OR CBQ44 -SIMPSON STRONG-TIE

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STRUCTURAL FRAMING PLANS

S-2.0

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