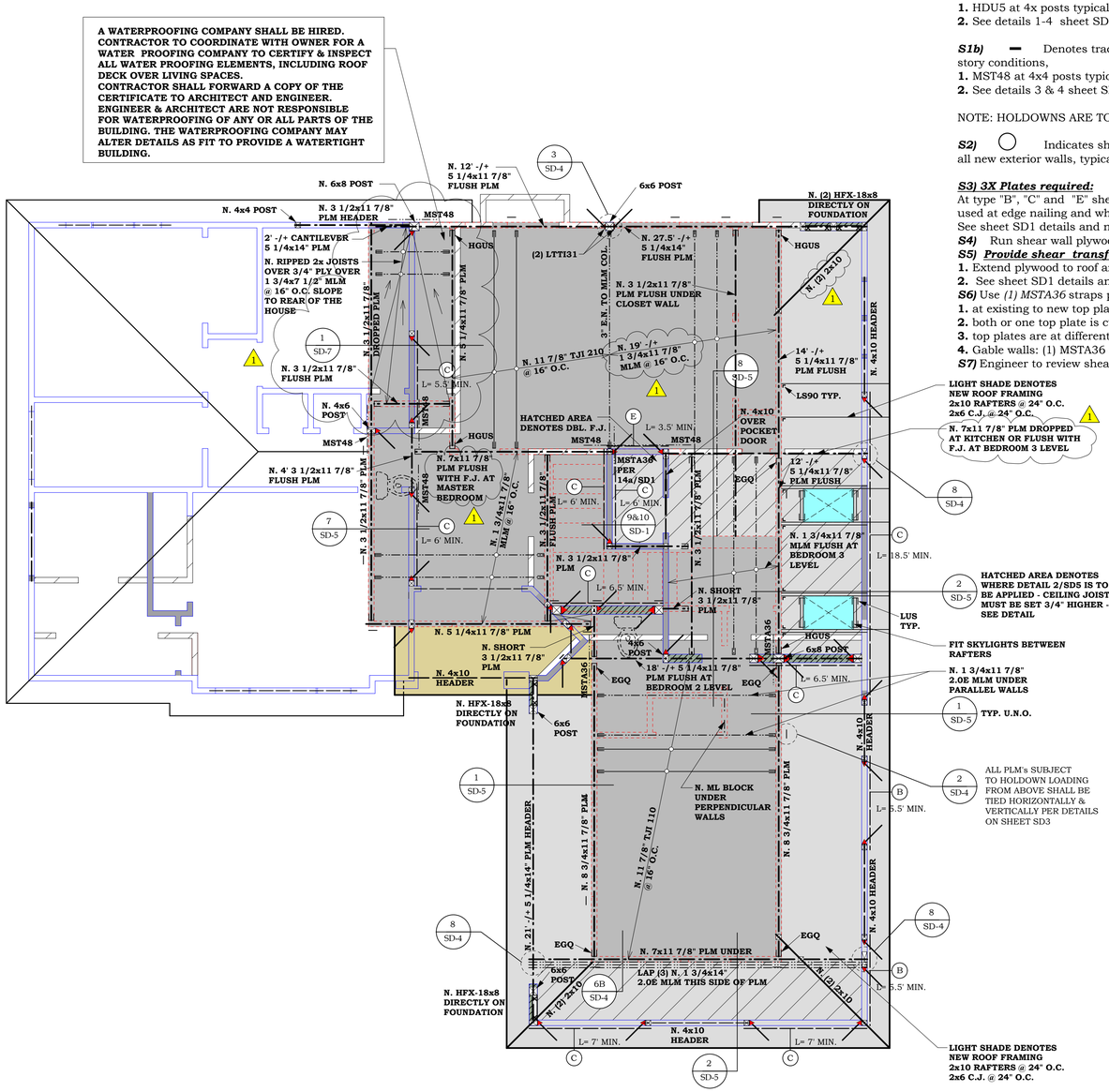
A WATERPROOFING COMPANY SHALL BE HIRED. CONTRACTOR TO COORDINATE WITH OWNER FOR A WATER PROOFING COMPANY TO CERTIFY & INSPECT ALL WATER PROOFING ELEMENTS, INCLUDING ROOF DECK OVER LIVING SPACES. CONTRACTOR SHALL FORWARD A COPY OF THE CERTIFICATE TO ARCHITECT AND ENGINEER. ENGINEER & ARCHITECT ARE NOT RESPONSIBLE FOR WATERPROOFING OF ANY OR ALL PARTS OF THE BUILDING. THE WATERPROOFING COMPANY MAY ALTER DETAILS AS FIT TO PROVIDE A WATERTIGHT BUILDING.



LEGEND

- WALLS TO BE REMOVED
- EXISTING WALLS
- DENOTES NEW 2x4 WALLS
- DENOTES NEW 2x6 WALLS

SHEARWALL NOTES:

S1a) Denotes holdowns to tie base of walls to foundation,
1. HDU5 at 4x posts typical u.n.o. See foundation plan for size.
2. See details 1-4 sheet SD1.

S1b) Denotes trace of holdowns straps to tie base of walls at two story conditions,
1. MST48 at 4x4 posts typical u.n.o.
2. See details 3 & 4 sheet SD1.

NOTE: HOLDOWNS ARE TO BE INSTALLED AT BOTTOM OF WALLS.

S2) Indicates shear wall plywood & nailing schedule. Type "A" on all new exterior walls, typical u.n.o. See sheet SD-1 for nailing schedule.

S3) 3X Plates required:
At type "B", "C" and "E" shearwalls, 3x nominal studs and plates are to be used at edge nailing and where panels adjoin. Top plates may be (2) 2x. See sheet SD1 details and notes and other detail sheets for shearwall detail.
S4) Run shear wall plywood continuously at wall "T" intersections.
S5) Provide shear transfer to roof & through floor framing:
1. Extend plywood to roof and provide shear transfer hardware
2. See sheet SD1 details and notes and other shear transfer details.
S6) Use *(1) MSTA36* straps per top plate:
1. at existing to new top plates
2. both or one top plate is cut where top plate detail 13/SD1 is not satisfied
3. top plates are at different elevations, see detail 14b/SD1
4. Gable walls: (1) MSTA36 over ridge line
S7) Engineer to review shearwalls and holdowns.

FLOOR FRAMING NOTES:

FF1) Contractor shall verify all conditions shown on all drawings and immediately notify the engineer of any discrepancies.
Contractor shall meet with engineer at least 2 weeks prior to start of construction or demolition to review the project.

FF2) ***EXTERIOR WALLS:*** *(typical unless noted otherwise)*
studs to 10' max 2x4 at 16" o.c.
studs to 16' max 2x6 at 16" o.c.
1. Gable end walls shall be balloon framed with minimum (2) 2x king studs. Note 4x posts are required at holdowns.
2. All new plumbing walls shall be 2x6 at 16" o.c.
FF3) ***HEADERS:*** *(typical unless noted otherwise)*
1. Headers are DFL, No. 1,
2. Engineered lumber such as PLM is preferred to minimize shrinkage
3. Double jack studs min.at spans over 5'
(4x posts are required at shearwall ends to tie holdowns)
4. at spans over 5', headers to tie to jack posts with A35's or LTP4's
A) 2X4 WALLS;
Exterior and Interior bearing walls: 4x8 to 4' span, 4x10 to 10' span, 4x12 to 14' span
Interior non-bearing walls, 4x8 to 6' span, 4x6 to 3' span
B) 2X6 WALLS;
Exterior and Interior bearing walls: 6x8 to 4' span, 6x10 to 11' span, 6x12 to 15' span
Interior non-bearing walls, 6x8 to 7' span, 6x6 to 4' span

FF4) ***HANGERS*** *(typical unless noted otherwise)*:
A) Floor Joists: TJIs : All top hangers
B) Microlams: HUS
C) Double Microlams: HUS
D) Flush PLM: **HGUS** typical u.n.o, see plans for where **EGQ** hangers are required
E) All Beams which are tied to holdown straps or holdowns of walls above them shall be strapped down horizontally and verctically. See details.

FF5) ***POSTS*** *(typical unless noted otherwise)*:
1. Posts shall not break through double top plates.
Spilce post at top plates, clip posts to plates with (2) A35's
2. Posts can be solid members or multiple studs nailed with 16d at 12" o.c per lap, (solid posts at HD's)
3. Posts to match thickness of walls and width of beams they are supposting; for example:4x6 at 2x4 wall supporitng 6x beam, etc.
4. Posts supporitng beams, shall have minimum (2) A35's to top plates
5. Provide beams, solid blkg or posts to transfer loads to fdn or framing below
FF6) All floor joists to be 11 7/8" TJI's typical U.N.O.
FF7) MLM denotes (1) 1 3/4 x 11 7/8" Microllam LVL, 1.9E Min.
FF8) DBL MLM denotes (2) 1 3/4 x 11 7/8" Microllam LVL, lapped
1. Nail lapped MLM with (2) rows of 16d's at 12" o.c. staggered
FF9) PLM denotes Parallam PSL, 2.0E
depth to match floor joists depth, 11 7/8" deep minimum
PLM3 denotes 3.5" wide Parallam PSL, (min. post 4x thickness of wall)
PLM5 denotes 5.25" wide Parallam PSL (min. post 6x thickness of wall)
PLM7 denotes 7" wide Parallam PSL (min. post 8x thickness of wall)
1. Posts supporting beams as a minimum shall match width of beam & thickness of wall typical U.N.O.

FF10) ***COLLECTORS*** *(typical unless noted otherwise)*:
1. PARALLEL FRAMING ELEMENTS SUCH AS JOISTS OR BEAMS:
4" Edge nail to collector element, strap at splices as shown on the plans
2. PERPENDICULAR FRAMING ELEMENTS:
2x4 flat block or solid block and use continuous collector straps as splans

FF11) Contractor to verify all point load conditions prior to start of construction.
FF12) See also sheet SD-1 for additional notes.
FF13) See the following sheet for roof framing notes.
FF14) All plm's subject to holdown loading from above shall be tied down horizontally & vertically - See structural detail sheets.

STRUCTURAL OBSERVATIONS BY ENGINEER:
3 BUSINESS DAY NOTICE IS REQUIRED TO SCHEDULE SITE VISITS - ENGINEER TO OBSERVE:

1- FOUNDATION STEEL, REBARS AT 10% & 100% PRIOR TO INSTALLATION OF INSIDE FORMS.
2- FRAMING PRIOR TO PLYWOOD.
3- SHEARWALLS, HOLDOWNS, & POSITIVE CONNECTORS.

CONTRACTOR MUST CONTACT ENGINEER:
3 BUSINESS DAY NOTICE IS REQUIRED:

PRIOR TO ORDERING ANY MATERIAL & AFTER THE STRUCTURE IS EXPOSED, THE ENGINEER & ARCHITECT SHALL OBSERVE EXISTING STRUCTURAL ELEMENTS TO CONFIRM OR MODIFY PROPOSED STRUCTURAL DESIGN.

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

ATA ENGINEERING
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LOWER ROOF FRAMING & 2ND FLOOR FRAMING PLAN

REGISTERED PROVISIONAL ENGINEER ALI ADIB NO. CE49976 Exp. 6-30-19 CIVIL STATE OF CALIFORNIA

PLANS ARE FAVORABLY REVIEWED FOR COMPLIANCE WITH STRUCTURAL CALCULATIONS ONLY

REMODEL/ADDITION:
DALTON RESIDENCE
3900 CHRISTIAN DRIVE
BELMONT, CA 94002

1 07-25-18 PC1

DATE: 06-07-18

S-2

OF SHEETS