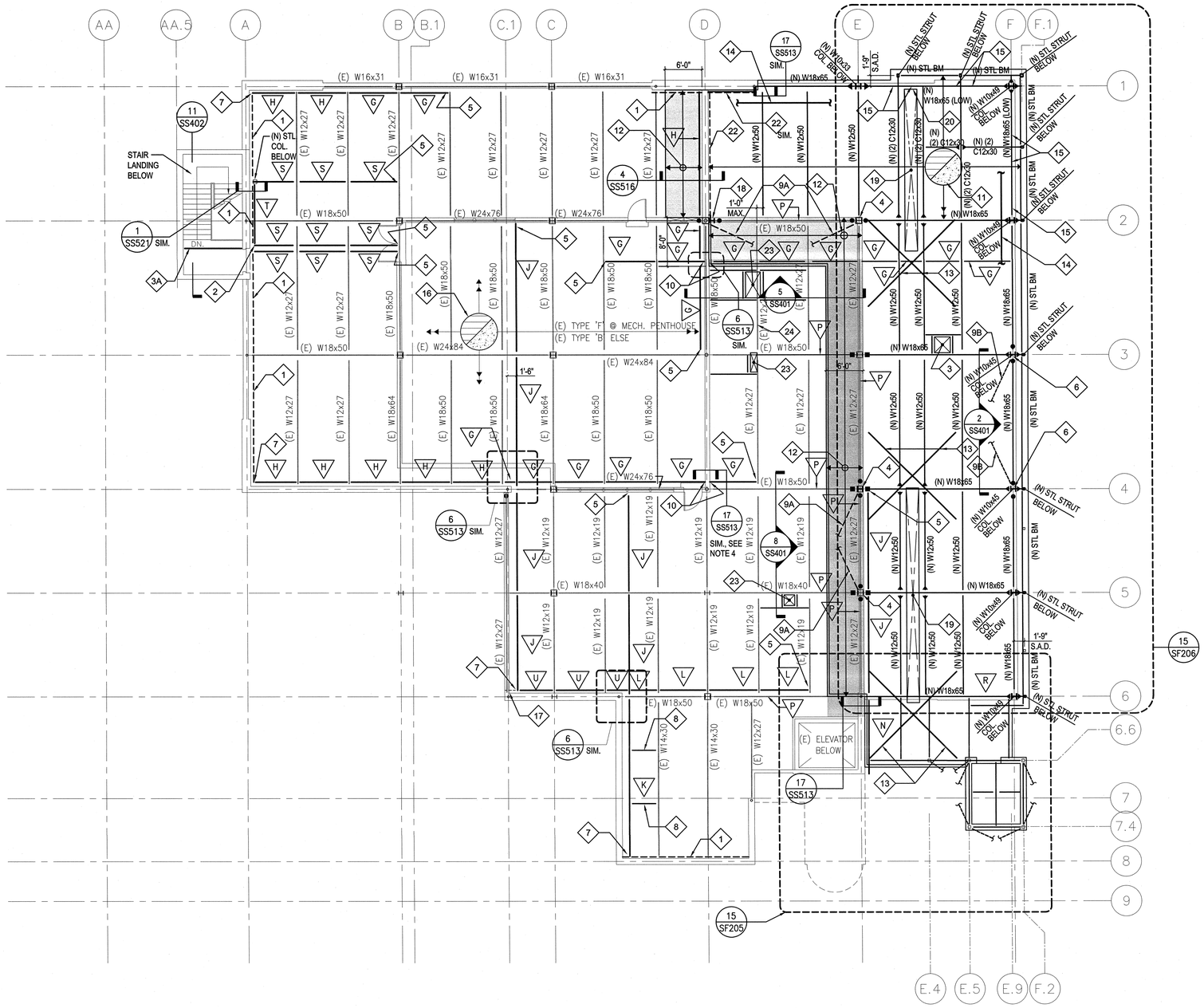

1 ROOF FRAMING PLAN

1/8" = 1'-0"

LEGEND:

- ENHANCE (E) STEEL CONNECTION, SEE BRACED FRAME ELEVATIONS
- ENHANCE (E) STEEL CONNECTION, SEE 13/SS512
- STEEL BEAM TO COLUMN MOMENT CONNECTION, SEE TYP. DETAIL U.O.N.
- A, B, C, ETC. - SEE COLLECTOR SCHEDULE 5/SS531. <SLRS>

SHEET NOTES:

1. REPLACE (E) MECHANICAL EQUIPMENT WITH NEW SIMILAR UNITS OR SIMILAR WEIGHT/DIMENSIONS, S.M.D.
2. FOR EXISTING FRAMING SIZES CONTRACTOR TO VERIFY WITH EXISTING DRAWINGS AND VERIFY IN FIELD.
3. ITEMS NOTED <SLRS> ARE PART OF THE SEISMIC LOAD RESISTING SYSTEM AS INDICATED IN THE SPECIFICATIONS.
4. PROVIDE BARS & PLATES PER 17/SS513. DO NOT CHIP OUT (E) CONC. COORDINATE COLLECTOR BARS TO AVOID CONNECTION REQ'D IN KEYNOTE 10

KEY NOTES:

1. ADD BENT PLATE ANCHORED TO SLAB AND WALL, SEE DETAIL 3/SS513.
2. SEE TYPICAL BEAM TO BEAM CONNECTION DETAIL, SIMILAR.
3. SLAB PENETRATION FOR MECHANICAL UNIT, S.A.D AND S.M.D. FOR EXACT LOCATION. PROVIDE (N) W8X31 BEAMS FOR FRAMING MEMBERS AT PENETRATION. PROVIDE (N) WT BEAM ABOVE ALL WF BEAM AROUND PERIMETER OF PENETRATION - MATCH WEB AND FLANGE THICKNESS OF (N) WF. ALIGN WT WEB WITH WEB OF WF BELOW PER 7/SS111, SIM. PROVIDE CONTINUOUS PARTIAL PENETRATION WELD OF WT WEB TO WF FLANGE. PROVIDE (N) STIFF PL ON ALL WT, 1 SIDE, AT EA END OF WT AND AT 1'-0" O.C. PER DETAIL 4/SS111, SIM. PROVIDE (N) TYP. STUDS ON ALL WF PER KEY NOTE 11. OFFSET STUDS 2-1/2" TO AVOID WT WHERE REQ'D. PROVIDE TYP. SHEAR CONN. AT EA. END OF ALL WF BEAMS, SEE SHEET SS111. SEE 6/SS121, DETAIL 'B', FOR ALL INFO NOT SHOWN, SIM.
3A. (N) CONCRETE COLLECTOR BEAM AT FLOOR-LEVEL LANDING BEAM.
4. STRENGTHEN EXISTING COLUMNS WITH FULL HEIGHT WELDED 5/8" STEEL PLATES, 36ksi. SEE TYPICAL DETAIL 6/SS111, MARK 'BU1'. STRENGTHEN (E) COLUMN SPLICES AT FLOOR LEVELS PER DETAIL 11/SS514
5. TYPICAL FULL-DEPTH BM-TO-BM CONNECTION AT END OF COLLECTOR, SEE 3/SS111.
6. STRENGTHEN (N) COLUMN W/ WELDED 5/8" STEEL PLATES, 50 ksi, 3RD STORY ONLY, SEE TYPICAL DETAIL 6/SS111, MARK 'BU1'.
7. COLLECTOR TO WALL CONNECTION, SEE 3/SS514.
8. W12x19 BRACING BEAM WITH TYPICAL FULL-DEPTH CONNECTION EACH END. PROVIDE 3/4" DIA. CORED STUDS @ 12" O.C. PER 5/SS513.
9A. (N) HSS10x10x5/8 STL. BRACES, SINGLE STORY X-CONFIGURATION. BELOW ROOF (SEE ELEVATION) - <SLRS>
9B. (N) 4"Ø XS PIPE STEEL BRACES, SINGLE STORY V-CONFIGURATION. BELOW ROOF (SEE ELEVATION) - <SLRS>
10. CONNECT COLLECTOR TO CONC. WALL PER 3/SS514. USE THRU-BOLTS SET IN ADHESIVE IN LIEU OF EXPANSION ANCHORS. ALIGN PLATES ON EA. SIDE OF WALL.
11. (N) VERCO FORMLOK W3 DECK, 18 GA. WITH 3" THK. (NOMINAL, V.I.F.) LWC TOPPING. PROVIDE #4 @ 12"O.C. E.W. AND 3/4"Øx4 1/2" HEADED WELDED STUDS @ 12"O.C. PER 5/SS513 ALONG ALL STEEL BEAMS. MATCH DEPTH OF ADJACENT (E) MTL DECK AND (E) CONC. SLAB, VERIFY (E) DEPTHS IN FIELD, CONTACT ENGINEER IF THERE ARE DISCREPANCIES. SEE 5/SS121 FOR REQ'D METAL DECK PROPERTIES. (N) BRACES PER 2, 5, 8/SS401 TO BE WELDED IN PLACE PRIOR TO POURING CONCRETE.
12. REMOVE AND REPLACE (E) CONCRETE AT SHADED AREA AND SPLICE (N) / (E) SLAB REINFORCEMENT, SEE 9/SS501.
13. (N) 2-#7 20'-0" LONG
14. (N) 2 - #8 ALONG LENGTH OF (N) CONCRETE SLAB.
15. (N) W12x40 BEAM BLOCKING (TERMINATE 1" CLEAR OF ADJACENT STEEL MEMBER) - SEE DETAIL 7/SS111.
16. FOR EXISTING SLAB INFORMATION AT ROOF, SEE 13/SS121, TYPE B (AT MECH. PENTHOUSE FROM GRID LINES 'B' TO 'D' AND '2' TO '4' SLAB IS TYPE F)
17. CONTINUE BENT PL & ANCHORS BENEATH COLLECTOR J AND TERMINATE AT EDGE OF CONCRETE WALL.
18. STRENGTHEN (N) COLUMN WITH WELDED 5/8" STEEL PLATES, 3rd STORY ONLY, SEE TYPICAL DETAIL 6/SS111, MARK 'BU1'.
19. NEW SKYLIGHT OPENING. SEE 6/SS121 FOR REINF. REQUIREMENTS (TYPE 'B' FRAMED OPENINGS).
20. AT NORTH END OF THIS SKYLIGHT, PROVIDE SLAB EDGE DETAILS PER 6/SS121 AT SKYLIGHT EDGE AND 4/SS121 AT EDGE OF ROOF SLAB.
21. REMOVE & REPLACE (E) CONCRETE AT SHADED AREA AND SPLICE (N) / (E) SLAB REINFORCEMENT, SEE 4/SS516.
22. (N) STL. LEDGER CHANNEL PER 4/SS516.
23. SLAB PENETRATION FOR (N) MECHANICAL UNIT, S.A.D AND S.M.D. FOR EXACT LOCATION. COORDINATE LOCATION OF MECHANICAL UNIT TO AVOID (E) STEEL FRAMING. PROVIDE (N) W8X31 BEAMS FOR FRAMING MEMBERS AT PENETRATION. INSTALL ALL FRAMING MEMBERS PRIOR TO CUTTING (E) SLAB. DO NOT DAMAGE (E) STL BEAMS. PROVIDE (N) WT BEAM ABOVE ALL WF BEAM AROUND PERIMETER OF PENETRATION - MATCH WEB AND FLANGE THICKNESS OF (N) WF. ALIGN WT WEB WITH WEB OF WF BELOW PER 7/SS111, SIM. PROVIDE CONTINUOUS PARTIAL PENETRATION WELD OF WT WEB TO WF FLANGE. PROVIDE (N) STIFF PL ON ALL WT, 1 SIDE, AT EA. END OF WT AND AT 1'-0" O.C. PER DETAIL 4/SS111, SIM. PROVIDE TYP. SHEAR CONN. AT EA. END OF ALL WF BEAMS, SEE SHEET SS111. SEE 6/SS121, DETAIL 'B', FOR ALL INFO NOT SHOWN, SIM.
24. PRIOR TO INSTALLATION OF (N) MECHANICAL UNIT, WELD AROUND (E) WF BM SHEAR TAB, 3-SIDES, WITH 5/16" FILLET WELD, EA. END OF (E) BM.

Revisions	Date

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Office of Construction and Facilities Management

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