

MATERIAL REQUIREMENTS SUMMARY

THE STRUCTURAL REQUIREMENTS ON THIS SHEET PERTAIN TO ALL STRUCTURAL WORK ON THIS PROJECT.

1. WOOD FRAMING
 SAWN LUMBER GRADES - ALL DOUGLAS FIR U.O.N., 19% MAX MC WHEN INSTALLED:
 PLATES, BLOCKS, LIGHT FRAMING AND MISC.: NO. 2, S-DRY OR KD
 ALL LUMBER IN CONTACT WITH CONCRETE OR MASONRY TO BE DECAY RESISTANT OR TREATED, MAY BE HEM FIR OR DF, S-GRN.

SELF-DRILLING WOOD SCREWS: SIMPSON STRONG-TIE SDS SERIES OR APPROVED.
 WOOD CONNECTION BOLTS: ASTM A307 MACHINE BOLTS.

FRAMING HARDWARE: AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY OR APPROVED. SIMPSON DESIGNATIONS ARE USED ON THE DRAWINGS.

NAILS: COMMON NINE GAGE U.O.N., SEE SCHED. THIS SHEET. PREDRILL HOLES IF REQUIRED TO PREVENT SPLITTING. USE HOT-DIPPED GALVANIZED NAILS (G185) FOR NAILING OF OR TO PRESERVATIVE TREATED LUMBER.

2. STEEL
 ANGLES, PLATES, MISC.: ASTM A36
 BOLTS: ASTM A307
 WELD ELECTRODES: E70XX LOW HYDROGEN

NAILING SCHEDULE

CONNECTION	NAILING (1) (2) (3)
1. Blocking between joists or rafters to top plate	3-8d toe nails
6. Rafter or roof truss to top plate.	3-10d toe nails
8. Double studs	16d at 24" o.c.
9. Double studs at braced wall panels	16d at 16" o.c.
12. Double top plates	16d at 16" o.c.
13. Double top plates, lap splice (EXCEPT SHEAR WALLS/LINES)	3-16d
15. Sole plate to joist, rim joist or blocking	16d at 16" o.c.
16. Sole plate to joist, rim joist or blocking at braced wall panels	2-16d per 16"
11. Top or sole plate to stud	2-16d end nails or 4-8d toe nails to 2x 2-20d toe nails to 3x
18. Top plates, lap at corners and intersections	4-16d
22. Joist to sill, top plate, or girder	3-8d toe nails
23. Rim joist to top plate	8d toe nails at 6" o.c.
27. Built-up girder and beams (4)	16d at 24" o.c. top and bottom staggered and 3-16d at ends
30. Bridging to joist	2-8d toe nails each end

- NOTES:
 1. FACE NAIL U.O.N.
 2. NAILING PER SCHEDULE ABOVE IS TO BE USED WHERE NAILING IS NOT SPECIFIED ON PLANS OR DETAILS. NAILING PER PLANS AND DETAILS SUPERCEDES NAILING SCHEDULE UNLESS APPROVED BY ENGINEER.
 3. NAILS SPECIFIED ARE COMMON: 8d = 2 1/2"x0.131"
 10d = 3"x0.148"
 16d = 3 1/2"x0.162"
 20d = 4"x0.192"
 FOR ALTERNATE NAILING AND INFORMATION NOT SHOWN, SEE COMPLETE OSGC TABLE 2304.91
 4. FOR SAWN LUMBER, FOR DBL OR TRIPLE LSL OR LVL BEAMS, USE 16d COMMON NAILS AT 12" O.C. TOP AND BOTTOM, ONE FACE FOR DOUBLE, BOTH FACES FOR TRIPLE.

STRUCTURAL SCOPE OF WORK

THE STRUCTURAL SCOPE OF WORK FOR PACKAGE 2 IS LIMITED TO THE FOLLOWING:
 SHEAR CONNECTION AND OUT-OF-PLANE BRACING AT (E) CMU WALL ON GRIDLINE 12 BETWEEN GRIDLINES H AND M.

STRUCTURAL SHOP DRAWINGS/SUBMITTALS

- SHOP DRAWINGS SHALL BE SUBMITTED FOR THE FOLLOWING ITEMS OF WORK:
 1. STRUCTURAL STEEL - SHOP DRAWINGS, SHOW SIZE AND LOCATION OF STRUCTURAL MEMBERS; GIVE COMPLETE INFORMATION NECESSARY FOR THE FABRICATION OF MEMBERS INCLUDING CUTS, COPIES, HOLES, STIFFENERS, CAMBER, TYPE AND SIZE OF BOLTS AND WELDS, SURFACE PREPARATION AND FINISH; SHOW METHODS OF ASSEMBLY. INDICATE WELDED CONNECTIONS USING STANDARD AWS SYMBOLS AND CLEARLY DISTINGUISH BETWEEN SHOP AND FIELD WELDS.

TESTING, SPECIAL INSPECTION AND OBSERVATION

- (1) THE FOLLOWING WORK IS REQUIRED IF MARKED TO BE TESTED, SPECIAL INSPECTED, OR STRUCTURALLY OBSERVED, PER OSGC CHAPTER 11 REQUIREMENTS. TESTING SHALL BE MADE IN ACCORDANCE WITH THE CURRENT CODE BY AN APPROVED SPECIAL TESTING LAB, SPECIAL INSPECTOR, AND OR BY AN ENGINEER RETAINED BY THE OWNER.
 (2) OBSERVATION SHALL BE DONE BY THE ENGINEER OF RECORD. STRUCTURAL OBSERVATION BY THE ENGINEER OF RECORD WILL BE PERFORMED AT ALL KEY PHASES OF THE STRUCTURAL WORK.
 (3) SPECIAL INSPECTION MAY BE PERIODIC U.O.N.

ITEM	TO BE PROVIDED IF MARKED (1)		
	TESTING	SPECIAL (3) INSPECTION	ENGINEERS OBSERVATION (2)
STRUCTURAL STEEL		X	X
STRUCTURAL STEEL WELDING		X	

BASIS OF DESIGN

APPLICABLE CODE: 2014 OREGON STRUCTURAL SPECIALTY CODE (2012 INTERNATIONAL BUILDING CODE WITH 2014 OSGC AMMENDMENTS)
 RISK CATEGORY: III
 VERTICAL LOADS:
 ROOFS:
 LIVE LOAD 20 psf
 SNOW LOAD Pg = 15 psf
 IMPORTANCE FACTOR: Is = 1.1
 SNOW EXPOSURE FACTOR, Ce = 1.0
 THERMAL FACTOR: Ct = 1.0
 PF = 12 PSF SNOW PLUS DRIFT, SLIDING AND UNBALANCED SNOW
 Pmin = 27 psf

LATERAL LOADS:
 WIND: WIND SPEED: 130mph
 EXPOSURE: C
 INTERNAL PRESSURE COEFFICIENT = 0.18 (FULLY ENCLOSED)

SEISMIC: VOLUNTARY LIMITED SEISMIC RETROFIT OF THE EXISTING BUILDING HAS BEEN DESIGNED IN ACCORDANCE WITH ASCE 41-13 'SEISMIC EVALUATION AND RETROFIT OF EXISTING BUILDINGS' TO ACHIEVE A PERFORMANCE OBJECTIVE OF DAMAGE CONTROL AT THE PRIMARY ELEMENTS OF THE SEISMIC LOAD RESISTING SYSTEM FOR THE 75% BSE-1N SEISMIC HAZARD AND LIMITED SAFETY FOR THE BSE-2E SEISMIC HAZARD. NEW ELEMENTS OF THE SEISMIC FORCE RESISTING SYSTEM HAVE BEEN PROPORTIONED AND DETAILED TO MEET THE PRESCRIPTIVE REQUIREMENTS OF THE 2014 OSGC. THIS VOLUNTARY LIMITED RETROFIT DOES NOT BRING THE EXISTING BUILDING INTO FULL COMPLIANCE WITH THE 2014 OSGC.

SITE CLASS: D
 SPECTRAL RESPONSE COEFFICIENTS:
 75% BSE-1N: Sa = 0.450g
 BSE-2E: Sa = 0.731g

SYMBOLS

	DETAIL NUMBER SHEET NUMBER
	BUILDING SECTION LETTER SHEET NUMBER
	DOUBLE JOISTS
	FRAMING MEMBER
	DIAGRAMMATIC EXTENT OF FRAMING
	CHANGE IN FLOOR/FRAMING ELEVATION
	EXISTING STUDWALL
	WALL BELOW SIZES, AND OTHER INFORMATION NOT NOTED.
	NEW STUDWALL U.O.N.
	STUDWALL BELOW U.O.N.
	(E) CONCRETE WALL IN PLAN OR SECTION
	CONTINUOUS WOOD MEMBER IN SECTION
	WOOD BLOCKING MEMBER IN SECTION
	INDICATES ROOF/FLOOR/WALL OPENING
	UNDISTURBED NATIVE GRADE IN SECTION
	(E) CONCRETE OR MASONRY CONSTRUCTION IN PLAN OR SECTION

GENERAL STRUCTURAL NOTES

- ALL WORK SHALL BE FURNISHED IN CONFORMANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES, STATUTES OR STANDARDS THAT APPLY TO THIS WORK INCLUDING BUT NOT LIMITED TO THE 2014 OREGON STRUCTURAL SPECIALTY CODE, AND SECTION 100 OF THE 1994 EDITION OF THE CITY OF SPRINGFIELD STANDARD CONSTRUCTION SPECIFICATIONS, INCLUDING ALL REVISIONS AT THE DATE OF QUOTE SUBMITTAL.
- DRAWINGS AND SPECIFICATIONS REPRESENT FINISHED STRUCTURE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION INCLUDING BUT NOT LIMITED TO SHORING & TEMPORARY BRACING. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO ENSURE SAFETY OF ALL PERSONS AND STRUCTURES AT THE SITE AND ADJACENT TO THE SITE. OBSERVATION VISITS TO THE SITE BY THE ENGINEER OR OTHER PERSONNEL SHALL NOT RELIEVE THE CONTRACTOR OF SUCH RESPONSIBILITY.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT JOB SITE BEFORE COMMENCING WORK AND SHALL REPORT ANY DISCREPANCIES.
- OMISSIONS OR CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE DWGS, NOTES, AND DETAILS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND RESOLVED BEFORE PROCEEDING WITH THE WORK.
- DO NOT USE SCALED DIMENSIONS. USE WRITTEN DIMENSIONS. WHERE NO DIMENSION IS PROVIDED, CONSULT THE ENGINEER FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
- IF CERTAIN FEATURES ARE NOT FULLY SHOWN OR CALLED FOR ON THE DRAWINGS OR SPECIFICATIONS, THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR CONDITIONS THAT ARE CALLED FOR OR SHOWN.
- NO WORK SHALL BE PERMITTED PRIOR TO THE ISSUANCE OF THE NOTICE TO PROCEED.
 - EXISTING CONSTRUCTION/ CONDITIONS
 - SHORING: THE CONTRACTOR SHALL PROVIDE SHORING WHEREVER NECESSARY TO ALLOW INSTALLATION OF THE WORK. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE DESIGN, INSTALLATION AND MAINTENANCE OF ALL SHORING AND TEMPORARY WORK REQUIRED THROUGHOUT THE PROGRESS OF THE WORK.
 - EXISTING CONSTRUCTION: EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS WAS OBTAINED FROM LIMITED VISUAL OBSERVATIONS. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND SHALL NOTIFY THE STRUCTURAL ENGINEER OF RECORD OF ALL EXCEPTIONS AND RECEIVE DIRECTION PRIOR TO PROCEEDING WITH THE WORK IN QUESTION.
 - DEMOLITION: THE REMOVAL, CUTTING, DRILLING, ETC. OF EXISTING WORK SHALL BE PERFORMED WITH GREAT CARE AND WITH APPROPRIATE TOOLS IN ORDER TO NOT JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE BUILDING.

STRUCTURAL SHEET INDEX

- S1.0 STRUCTURAL NOTES AND SYMBOLS
- S2.0 ROOF FRAMING PLAN - SOUTH EAST
- S8.1 STRUCTURAL DETAILS

ABBREVIATIONS

4	AND	LLH	LONG LEG HORIZ
@	AT	LLV	LONG LEG VERTICAL
A.B.	ANCHOR BOLT	LVL	LAMINATED VENEER LUMBER
ARCH.	ARCHITECTURAL	LSL	LAMINATED STRAND LUMBER
BLDG.	BUILDING	MFR.	MANUFACTURER
BLKG.	BLOCKING	M.B.	UNFINISHED MACHINE BOLTS
BM.	BEAM	MAX.	MAXIMUM
BOT.	BOTTOM	MTL.	METAL
B.O.	BOTTOM OF	MIN.	MINIMUM
B.N.	BOUNDARY NAILING	MISC.	MISCELLANEOUS
C	CENTER LINE	(N)	NEW
C.B.	CARRIAGE BOLT	N.S.	NEAR SIDE
C.I.P.	CAST-IN-PLACE	NTS.	NOT TO SCALE
C.J.	CONTROL JOINT		
CMU	CONCRETE MASONRY UNIT	O.C.	ON CENTER
COL.	COLUMN	OPG.	OPENING
CONT.	CONTINUOUS	OH.	OPPOSITE HAND
DET.	DETAIL	R	STEEL PLATE
D.C.	DITTO	PLY.	PLYWOOD
D.F.	DOUGLAS FIR	P.T.	PRESSURE TREATED
DWG.	DRAWING	R.C.J.	ROUGHENED CONSTRUCTION JOINT REINFORCEMENT REQ'D REQUIRED
(E)	EXISTING	S.A.D.	SEE ARCHITECTURAL DRAWINGS SCHED. SCHEDULE
EA.	EACH	SM.	SIMILAR
E.F.	EACH FACE	SPEC.	SPECIFICATION
EL.	ELEVATION	SQ.	SQUARE
E.N.	EDGE NAILING	SYMM.	SYMMETRICAL
E.M.	EACH WAY	T&B	TOP AND BOTTOM
EXT.	EXTERIOR	T.B.R.	TO BE REMOVED
F.F.E.	FINISH FLOOR ELEVATION	T.D.	THE DOWN
FIN.	FINISH	T&G	TONGUE AND GROOVE
F.G.	FINISHED GRADE	T.O.	TOP OF
FLR.	FLOOR	T.O.C.	TOP OF CONCRETE
F.D.	FLOOR DRAIN	T.O.S.	TOP OF STEEL
F.O.	FACE OF	TYP.	TYPICAL
FTG.	FOOTING	U.O.N.	UNLESS OTHERWISE NOTED
G.L.B.	GULLIAM BEAM	VERT.	VERTICAL
G.N.B.	GYPSUM WALL BOARD	H.D.	HOLD DOWN
H.F.	HEM FIR	HORIZ.	HORIZONTAL
H.D.	HOLD DOWN	W	WITH
HORIZ.	HORIZONTAL	W/O	WITHOUT
K.P.	KING POST		

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STRUCTURAL NOTES
 AND SYMBOLS

CITY OF SPRINGFIELD
 P11006 - CITY HALL SEISMIC BRACING - PACKAGE 2
 225 5TH STREET SPRINGFIELD, OR 97477

Date: 08-20-16
 Scale: AS NOTED
 Drawn: AMA
 Job: 10442.1
 Sheet:

S1.0
 Of Sheets

REVISIONS	BY

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**ROOF FRAMING
 PLAN - SOUTH EAST**

CITY OF SPRINGFIELD
 P11006 - CITY HALL SEISMIC BRACING - PACKAGE 2
 225 5TH STREET SPRINGFIELD, OR 97477

Date	06-20-16
Scale	AS NOTED
Drawn	AMA
Job	10442.1
Sheet	S2.0

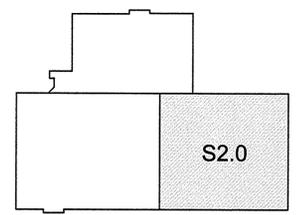
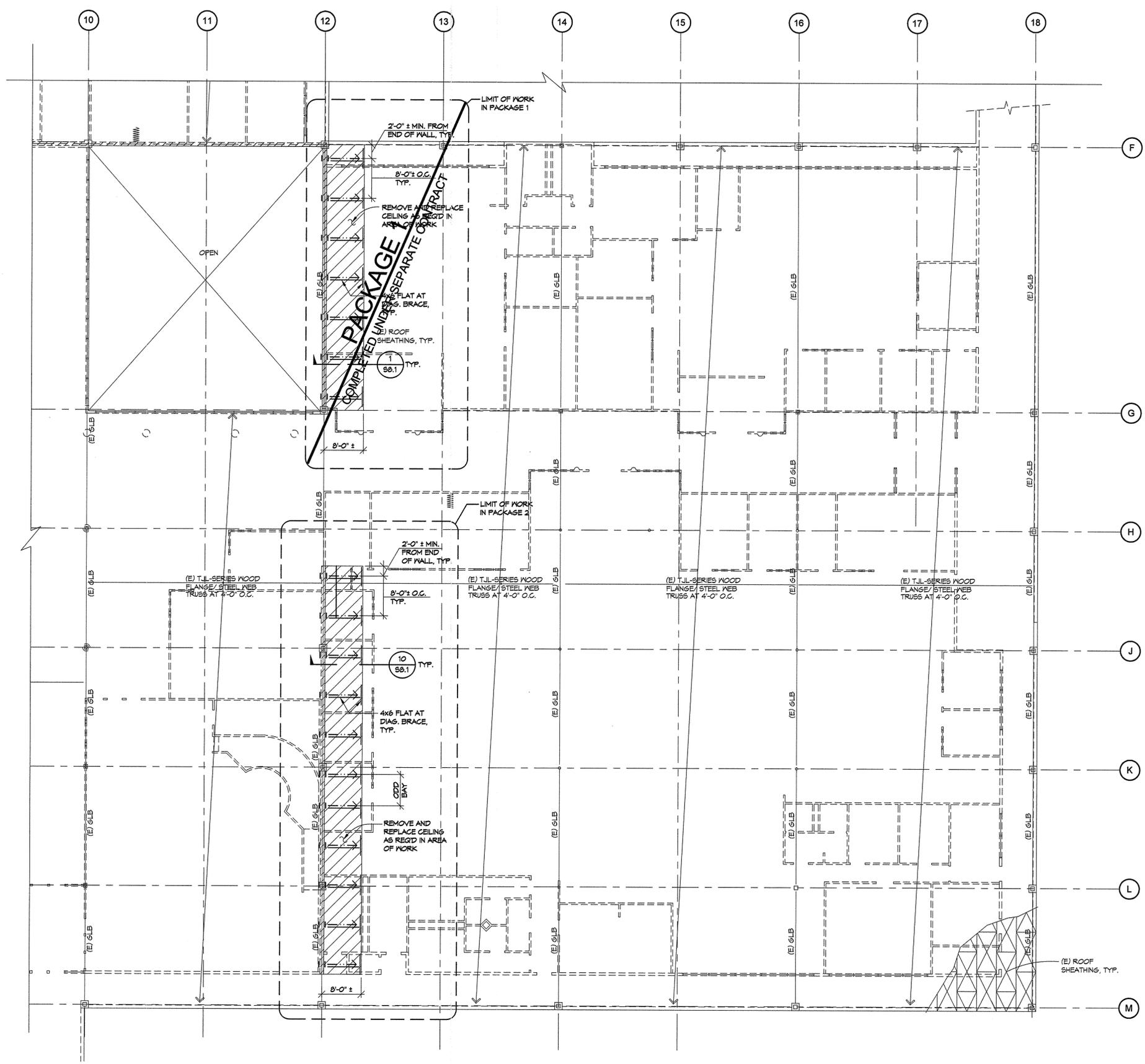
1 Of 1 Sheets

FRAMING PLAN NOTES

- SEE TYPICAL NOTES ON SHEET S1.0.
- ROOF FRAMING INFORMATION IS BASED ON LIMITED FIELD OBSERVATIONS. CONTRACTOR TO VERIFY SIZE AND LOCATION OF MEMBERS IN THE AREA OF WORK AND NOTIFY ENGINEER IF FRAMING DIFFERS FROM WHAT IS SHOWN ON THE DETAILS.

FRAMING PLAN SYMBOLS

- DENOTES (E) CMU WALL BELOW
- DENOTES (E) NON-STRUCTURAL WALL BELOW
- DENOTE (E) STEEL COLUMN BELOW
- DENOTES SHEAR CONN. AND DIAG. BRACE PER DET. 1/58.1 OR 10/58.1



1 ROOF FRAMING PLAN - SOUTH EAST
 S2.2 3/32"x1'-0"

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