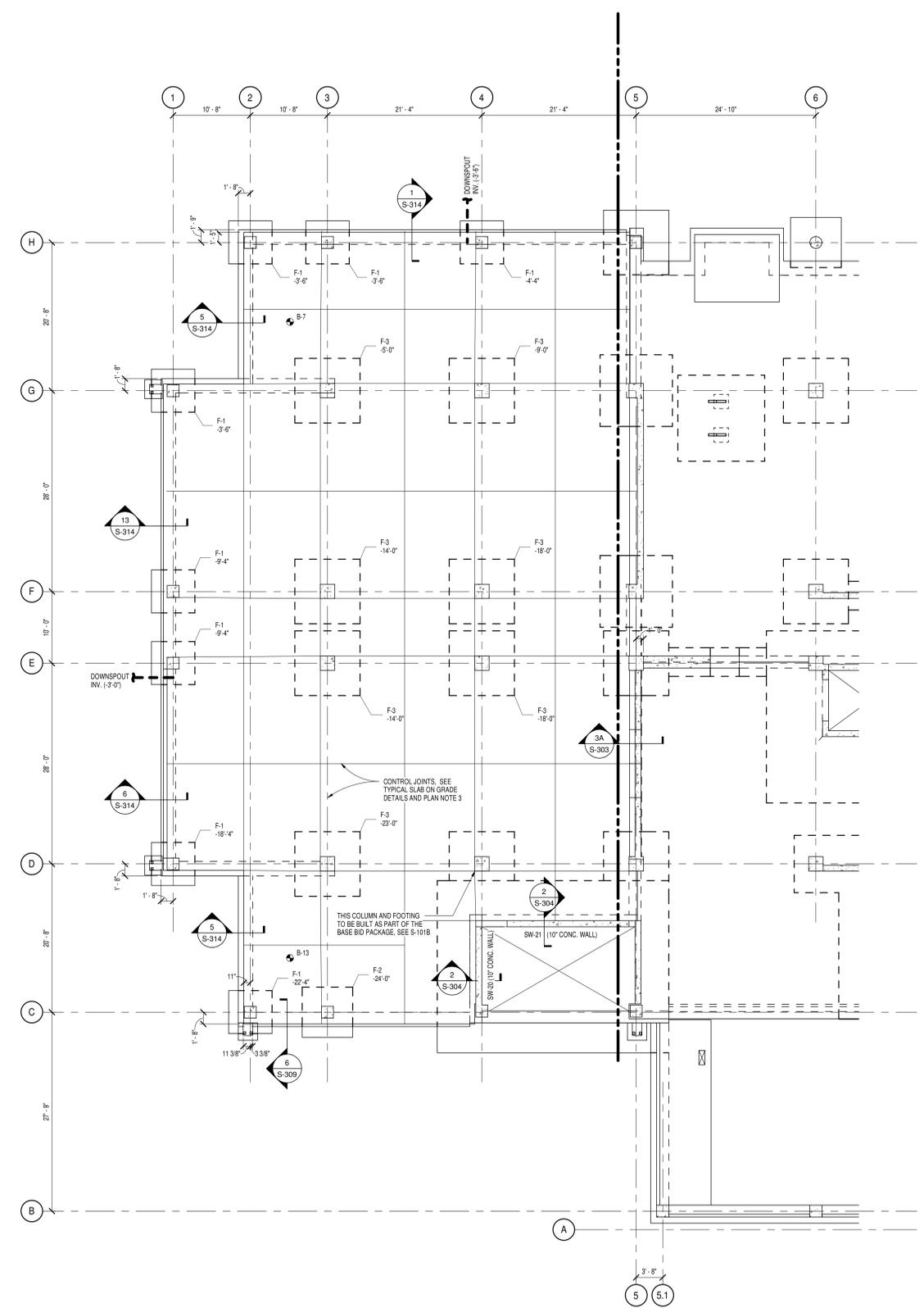
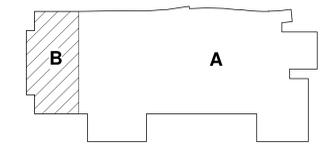
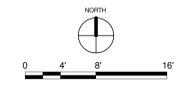


- PLAN NOTES**
- TOP OF SLAB ON GRADE EL. = 0'-0".  
 NOTE: EL. 0'-0" = ACTUAL DATUM EL. 86'-0".
  - SLAB ON GRADE SHALL BE 6" THICK REINFORCED WITH 6W. W/ 3 W/ 8 ON COMPACTED SUBGRADE.
  - CONTROL JOINTS (CJ) IN SLABS ON GRADE SHALL BE LOCATED ON COLUMN LINES AND BETWEEN COLUMN LINES WHERE NECESSARY IN BOTH DIRECTION SO AS NOT TO EXCEED JOINT SPACING OF 15 FEET. SEE PLAN FOR RECOMMENDED LAYOUT. LOCATE JOINTS AND PROVIDE REINFORCING AT RE-ENTRANT CORNERS PER 9S-203.
  - EXTENT AND LOCATION OF FLOOR DEPRESSIONS SHALL BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS.
  - SW-XX DENOTES CONCRETE SHEAR WALL. SEE DWG. S-204 AND S-205 FOR ELEVATIONS AND REINFORCING.
  - ALL COLUMNS, PIERS, AND FOOTINGS SHALL BE CENTERED ON GRID LINES UNLESS NOTED OTHERWISE.
  - SEE DWG. S-201 & S-202 FOR CONCRETE COLUMN SCHEDULE.
  - F-X DENOTES COLUMN FOOTING. SEE DWG. S-203 FOR SCHEDULE. ALSO SEE FOUNDATION SYMBOL LEGEND.
  - FS DENOTES STEP FOOTING. SEE S-301.
  - SEE ARCH DRAWINGS FOR ALL FOUNDATION WATERPROOFING AND INSULATION.

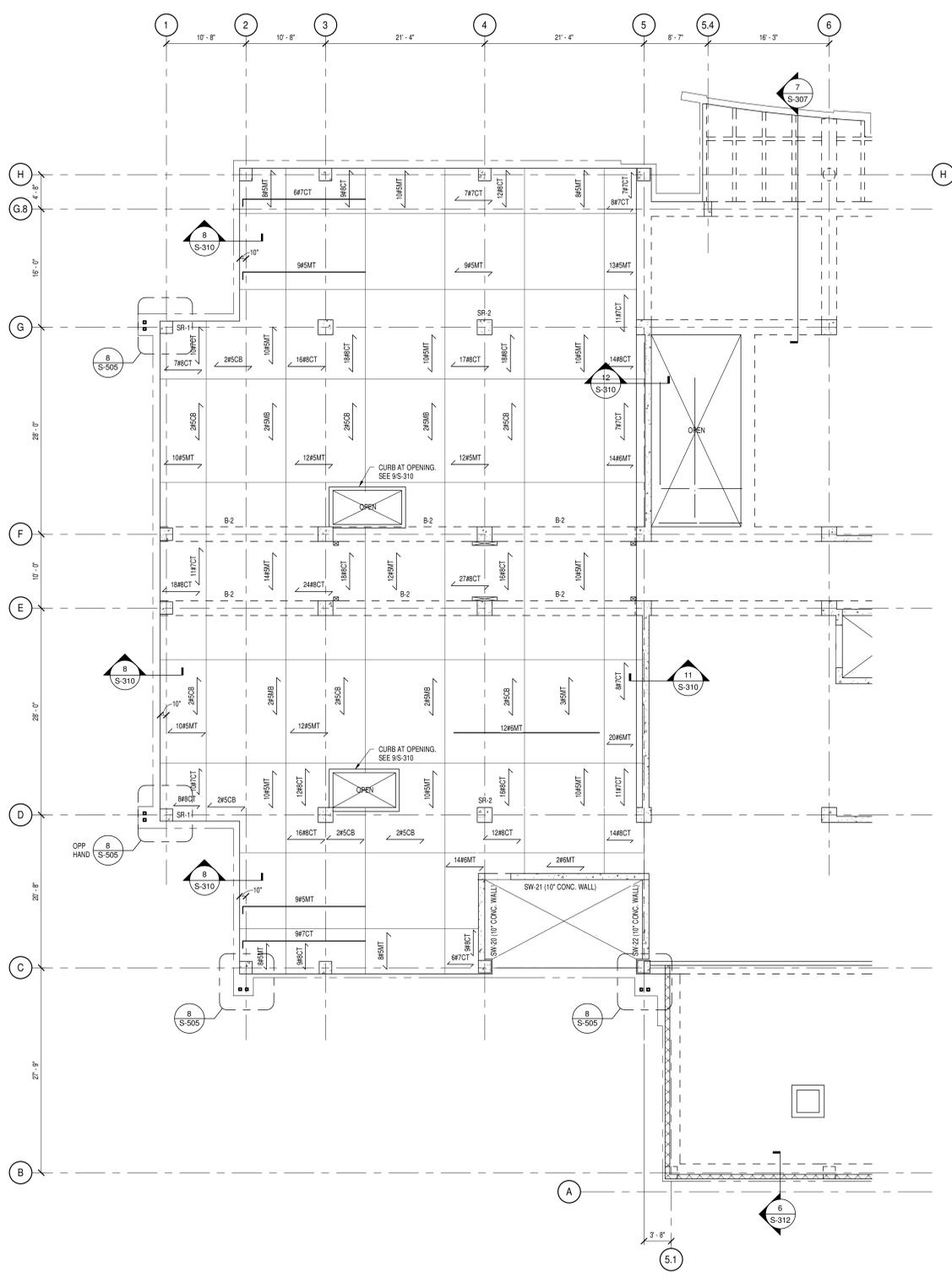


**2 FOUNDATION AND FIRST FLOOR PLAN - ALTERNATE**  
 1/8" = 1'-0"



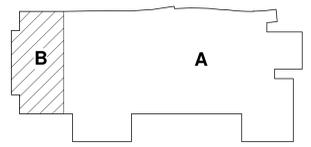
ISSUE FOR BID		04/09/10	
JOB NO.	SHEET NO.	REVISION	DATE
<b>BROOKHAVEN NATIONAL LABORATORY</b>			
UNDER CONTRACT WITH UNITED STATES DEPARTMENT OF ENERGY PLANT ENGINEERING DIVISION UPTON, NEW YORK 11973			
JOB TITLE	DWG. TITLE	DATE	SHEET OF
INTERDISCIPLINARY SCIENCE BUILDING	FOUNDATION AND FIRST FLOOR PLAN - AREA B	04/09/10	1 OF 1
SCALE	1/8" = 1'-0"	APP'D. BY	APPROVER
ESHD PER LEVEL	APPROVER	DATE	07/28/12
FILENAME:	07/28/12 S-101B.1	BLDG. NO.	S-101B.1





**2 SECOND FLOOR FRAMING PLAN - AREA B (ALTERNATE)**  
 1/8" = 1'-0"

- PLAN NOTES**
- TOP OF CONCRETE SLAB EL. = 16'-0" LIND.
  - FLOOR CONSTRUCTION SHALL BE A 12" THICK CONC. FLAT PLATE. BOTTOM MAT REINFORCING SHALL BE #5 @ 10" O.C. EW. SEE PLAN FOR TOP BAR AND ADDITIONAL BOTTOM BAR REINFORCING. SEE S-308 FOR TYPICAL FLAT PLATE PLAN AND SECTION.
  - S-1 INDICATES ONE WAY SLAB CONSTRUCTION. SEE DWG. S-308 FOR TYPICAL ONE SLAB DETAILS AND SCHEDULE.
  - SW-XX DENOTES CONC. SHEAR WALL. SEE DWG. S-204 AND S-205 FOR ELEVATIONS AND REINFORCING.
  - SEE DWG. S-201 AND S-202 FOR CONCRETE COLUMN SCHEDULE.
  - SEE DWG. S-307 FOR CONCRETE BEAM SCHEDULE AND DETAILS.
  - COORDINATE FLOOR OPENING WITH ARCHITECTURAL AND MECHANICAL PRIOR TO CONSTRUCTION.
  - SR-XX INDICATES STUD RAIL REQUIRED AT THIS LOCATION. SEE S-307 FOR TYPICAL STUD RAIL DETAILS.
  - SEE ARCH. FOR LOCATION AND ORIENTATION OF HANGING SUPPORT SYSTEM SLAB INSERTS FOR MISCELLANEOUS EQUIPMENT.

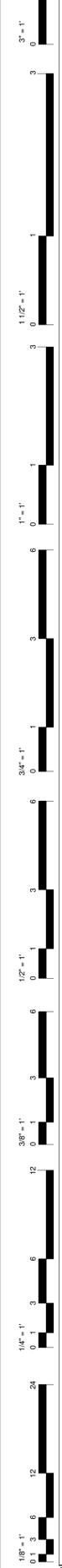
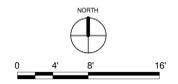


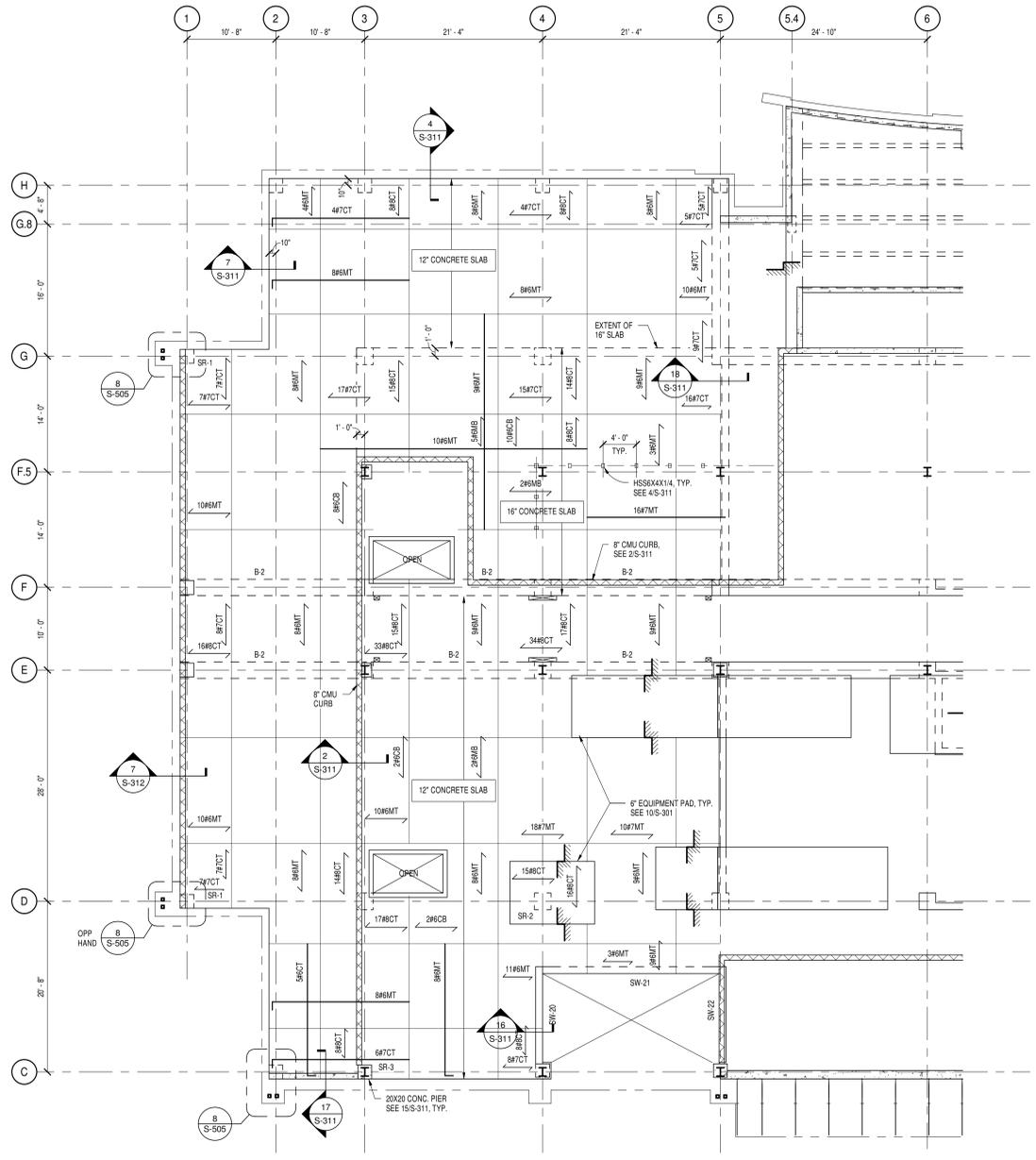
JOB NO.	SHEET NO.	REVISION	DATE	OWN.	APPR.	QA
			04/09/10			

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 PLANT ENGINEERING DIVISION  
 UPTON, NEW YORK 11973

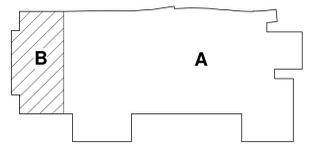
JOB TITLE	NORTH	DWG. TITLE
INTERDISCIPLINARY SCIENCE BUILDING		SECOND FLOOR FRAMING PLAN - AREA B
SCALE	DATE	ACCT. NO.
1/8" = 1'-0"	04/09/10	
ESHD PER LEVEL	APPD. BY	BLDG. NO.
	Approver	
FILENAME:		
079872 S-1025.1		





**2 PENTHOUSE FLOOR FRAMING PLAN - AREA B (ALTERNATE)**  
 1/8" = 1'-0"

- PLAN NOTES**
1. TOP OF CONCRETE SLAB EL. = 12'-0" UNO.
  2. FLOOR CONSTRUCTION SHALL BE AS FOLLOWS:  
 12" THICK CONC. FLAT PLATE. BOTTOM MAT REINFORCING SHALL BE #6 @ 12" O.C. E.W.  
 16" THICK CONC. FLAT PLATE BOUNDED BY GRIDS S-5 AND F-G. BOTTOM MAT REINFORCING SHALL E #6 @ 12" O.C. E.W. SEE PLAN FOR TOP BAR AND ADDITIONAL BOTTOM BAR REINFORCING. SEE S-306 FOR TYPICAL FLAT PLATE PLAN AND SECTION.
  3. SW-XX DENOTES CONC. SHEAR WALL. SEE DWG. S-204 AND S-205 FOR ELEVATIONS AND REINFORCING.
  4. SEE DWG. S-201 AND S-202 FOR CONCRETE COLUMN SCHEDULE.
  5. SEE DWG. S-307 FOR CONCRETE BEAM SCHEDULE AND DETAILS.
  6. COORDINATE FLOOR OPENING WITH ARCHITECTURAL AND MECHANICAL PRIOR TO CONSTRUCTION.
  7. SEE ARCH. FOR LOCATION AND ORIENTATION OF HANGING SUPPORT SYSTEM SLAB INSERTS FOR MISCELLANEOUS EQUIPMENT.
  8. COORD. ROOF DRAIN LOCATIONS WITH ARCH. DO NOT LOCATE ROOF DRAINS WITHIN COLUMN STRIPS.
  9. SR-XX INDICATES STUD RAIL REQUIRED AT THIS LOCATION. SEE S-307 FOR TYPICAL STUD RAIL DETAILS.

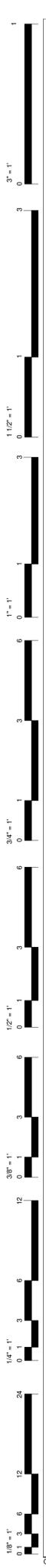
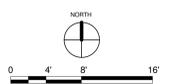


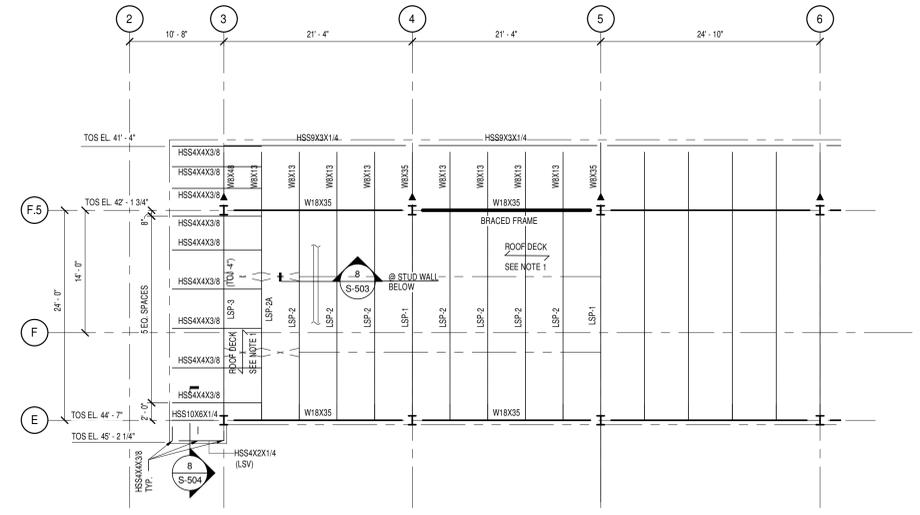
JOB NO.	SHEET NO.	REVISION	DATE	OWN.	APP'D.	QA
			04/09/10			

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 UPTON, NEW YORK 11973

JOB TITLE	DWG. TITLE
INTERDISCIPLINARY SCIENCE BUILDING	PENTHOUSE FLOOR FRAMING PLAN - AREA B
SCALE: 1/8" = 1'-0"	DATE: 04/09/10
ESIGNED BY: APPROVED BY:	REVISED BY: MM
FILENAME: 079872 S-1035B.1	JOB NO.: 079872
	BLDG. NO.:
	DWG. NO.:
	SHEET OF:

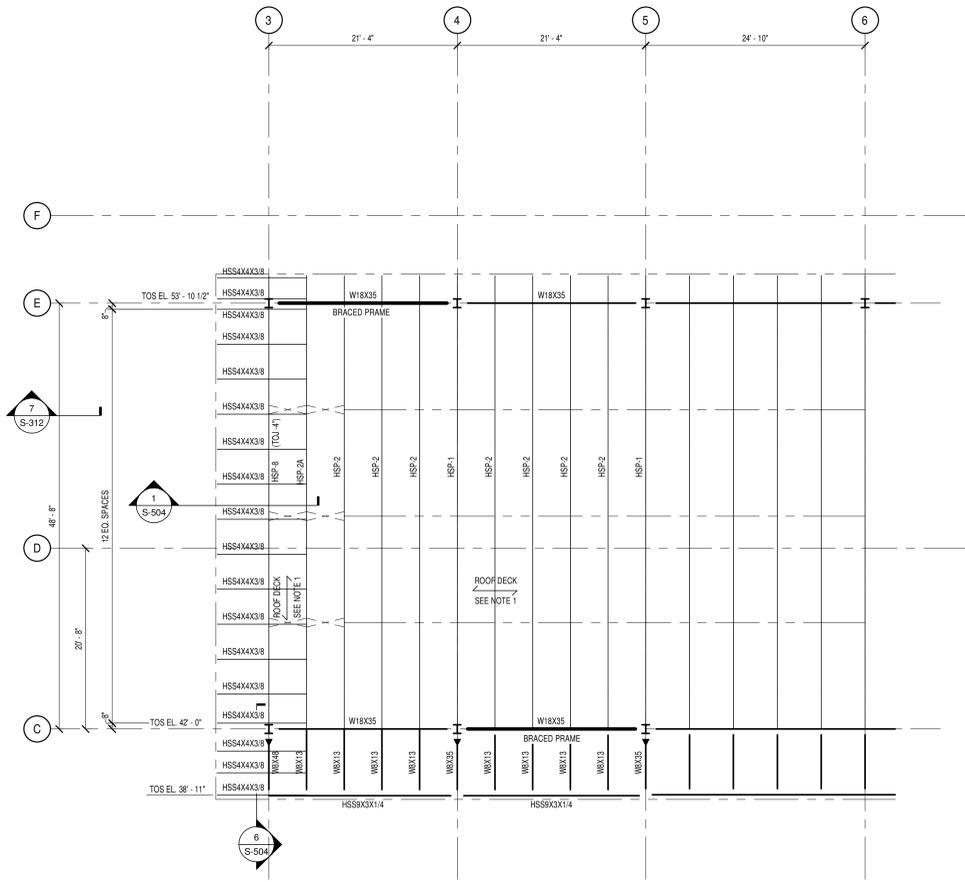




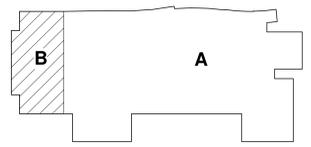
**1 LOW ROOF FRAMING PLAN - AREA B (ALTERNATE)**  
 1/8" = 1'-0"

STEEL FRAMING SYMBOL LEGEND	
	BEAM SIZE
	QUANTITY OF HEADED STUDS
	UPWARD CAMBER AT MIDSPAN
	INDICATES CHANGE IN BEAM ELEVATION FROM TYPICAL, INDICATED ON PLAN
	INDICATES TYPICAL FRAMING CONNECTION
	INDICATES DOUBLE ANGLE FRAMING CONNECTION
	INDICATES MOMENT CONNECTION
	INDICATES BRACED FRAME
	INDICATES FULL DEPTH CONNECTION PLATE
	INDICATES BRACE TO BEAM BOTTOM FLANGE
	INDICATES BOTTOM OF COLUMN / TRANSFER GIRDER

- PLAN NOTES:**
- ROOF DECK SHALL BE 1-1/2 x 20 GA. STEEL ROOF DECK, 3 SPANS MINIMUM.
  - ROOF JOISTS ARE SPECIAL BOWSTRING OPEN WEB STEEL JOISTS. SEE ROOF PROFILE ELEVATION ON SHEET S-503 FOR LOCATION OF CENTER POINT OF TOP CHORD CURVE.
  - ALL JOISTS AND BRIDGING SHALL BE DESIGNED AND FURNISHED FOR NET UPLIFT WIND PRESSURES CALCULATED USING THE WIND PRESSURES SHOWN ON THE JOIST LOAD DIAGRAMS ON S-502 AND S-503.
  - COORDINATE JOIST BOTTOM CHORD BRIDGING WITH JOIST MANUFACTURER.
  - T.O.J. DENOTES TOP OF JOIST.



**2 HIGH ROOF FRAMING PLAN - AREA B (ALTERNATE)**  
 1/8" = 1'-0"



ISSUE FOR BID			
JOB NO.	SHEET NO.	REVISION	DATE
			04/09/10

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JOB TITLE		DWG. TITLE	
INTERDISCIPLINARY SCIENCE BUILDING		ROOF FRAMING PLAN - AREA B	
DATE	ACCT. NO.	DATE	SHEET OF
04/09/10		07/08/12	1
SCALE	DWN. BY	REV'D BY	JOB NO.
1/8" = 1'-0"	RAW	MM	079872
ESRD PER LEVEL	APP'D. BY	BLDG. NO.	
	Approver		
FILENAME:	079872 S-104B.1		

