NO.	DATE	REVISION
1	12-13-19	SCHEMATIC DESIGN
2	08-03-20	SCHEMATIC DESIGN-AMTRAK UPDATE
3	03-01-21	50% DD SUBMISSION
4	05-11-21	100% DD SUBMISSION
5	06-11-21	DOB SUBMISSION #1
6	10-05-21	75% CD SUBMISSION
7	05-19-23	AMTRAK RESUBMISSION
8	08-23-23	AMTRAK RESUBMISSION
9	08-28-23	S-SK-002`

NO.	DATE	ISSUE

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LANDSCAPE ARCHITECT
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212-479-5400

Vertical Transportation Consultant:
LERCH BATES
1430 Broadway
New York, NY 10018
347-625-6289

PROJECT TITLE:

509 WEST 48TH ST

509 W 48 ST, NEW YORK, NY 10019
BLOCK 1077, LOT 29, BOROUGH OF MANHATTAN,

PROJECT NO: 1911668

DOB NO: XXXXXXXXXX

DRAWING TITLE:

1ST FLOOR FRAMING PLAN

SCALE: As indicated PAGE: OF XXX

S-010.00

DOB SCAN STICKER

SEAL

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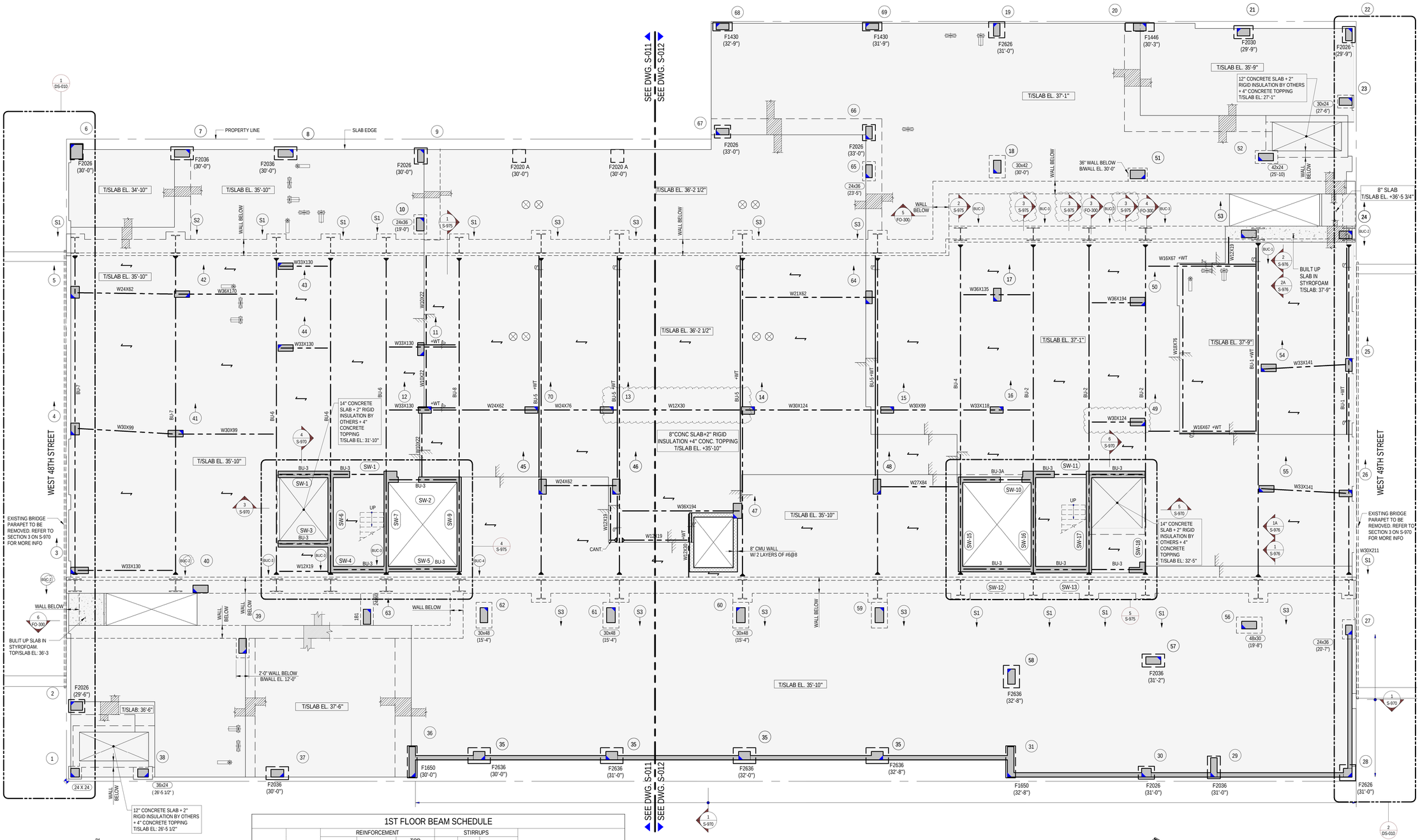


1ST FLOOR BEAM SCHEDULE

BEAM MARK	SIZE (WxD) (IN.)	REINFORCEMENT: BOTTOM CONTINUOUS	REINFORCEMENT: TOP CONTINUOUS	REINFORCEMENT: TOP ADD'L BARS AT SUPPORT	STIRRUPS: TYPE	STIRRUPS: SIZE	STIRRUPS: SPACING	REMARKS
1B1	24x60	4-#11	4-#11		2	#4	@4	

TYPE 2
STIRRUPS TYPE
N.T.S.

BU SCHEDULE

Type	D	Bf	Tf	Tw	WEB TO FLANGE WELDS	NOTES
BU-1	67"	24"	2"	1 1/2"	3/4"	ADD WT AT SLAB AT EL. 37'-9"
BU-2	VARIES	32"	8"	2"	CJP	
BU-3	52"	12"	3"	2"	1/2"	
BU-3A	52"	10"	3"	2"	1/2"	
BU-4	VARIES	32"	8"	2"	CJP	
BU-5	60"	30"	2"	1 1/2"	3/4"	ADD WT AT SLAB AT EL. 36'-2 1/2" AND 37'-4
BU-6	69"	32"	8"	2"	CJP	
BU-7	73"	24"	2"	1 1/2"	3/4"	
BU-8	VARIES	28"	6"	2"	CJP	

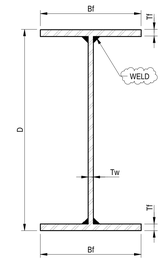
NOTES:
1. ALL STEEL TO BE 50ksi.

BUC SCHEDULE

TYPE	D	BF	TF	TW	VERT. REINFORCEMENT PER SECTION 2/S-976	WEB TO FLANGE WELDS
BUC-1	22"	24"	2"	1.25"	42-#11	CJP
BUC-2	22"	24"	1.75"	1.25"	38-#11	CJP
BUC-3	22"	24"	1.5"	1"	22-#11	CJP
BUC-4	22"	24"	2.25"	1.5"	38-#11	CJP

STEEL COLUMN SCHEDULE

MARK	SIZE	VERT.REINFORCEMENT PER SECTION 1/S-976
S1	W30X211	18-#11
S2	W33X241	24-#11
S3	W36X262	28-#11

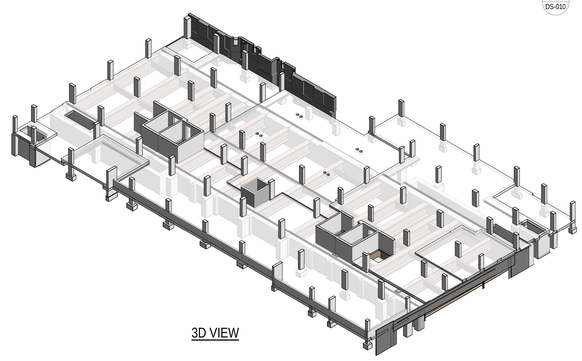


2 S-010 TYPICAL BUILT UP BEAM/COLUMN -SECTION VIEW
SCALE: 3/4" = 1'-0"

NOTES:
1. REFER TO THE BU AND BUC TABLE FOR FILLET WELD DIMENSION AT EACH FACE OF THE WEB.

1 S-010 1ST FLOOR FRAMING PLAN
SCALE: 3/16" = 1'-0"

NOTES:
1. TOP OF SLAB ELEVATION TO BE +35'-10" U.O.N. ON PLAN THUS [ ]
2. SLAB TO BE 8" CONCRETE SLAB + 2" OF RIGID INSULATION BY OTHERS + 4" OF CONCRETE TOPPING BY OTHERS U.N.O. ON PLAN
3. ⟷ DENOTES 8" ELEMATIC HOLLOW-CORE PLANK BY OLDCASTLE (3008807) + 2" OF RIGID INSULATION BY OTHERS + 4" OF CONCRETE TOPPING BY OTHERS
4. BOTTOM MESH REINFORCEMENT TO BE: #4@12 FOR 8" SLAB.
5. FOR GENERAL NOTES, ABBREVIATIONS AND LEGEND SEE DWG FO-001.
6. FOR LINK BEAM SCHEDULE AND SHEARWALL DETAILS SEE S-940 SERIES DRAWINGS.
7. FOR COLUM AND BUTRESS SIZES, REINFORCEMENT AND DETAILS SEE S-950 SERIES DRAWINGS.
8. FOR TYPICAL SUPERSTRUCTURE DETAILS SEE S-960 SERIES DRAWINGS.
9. FOR SUPERSTRUCTURE SECTIONS SEE S-970 SERIES DRAWINGS
10. FOR STAIR DETAILS AND SECTIONS SEE S-980 SERIES DRAWINGS.



3D VIEW

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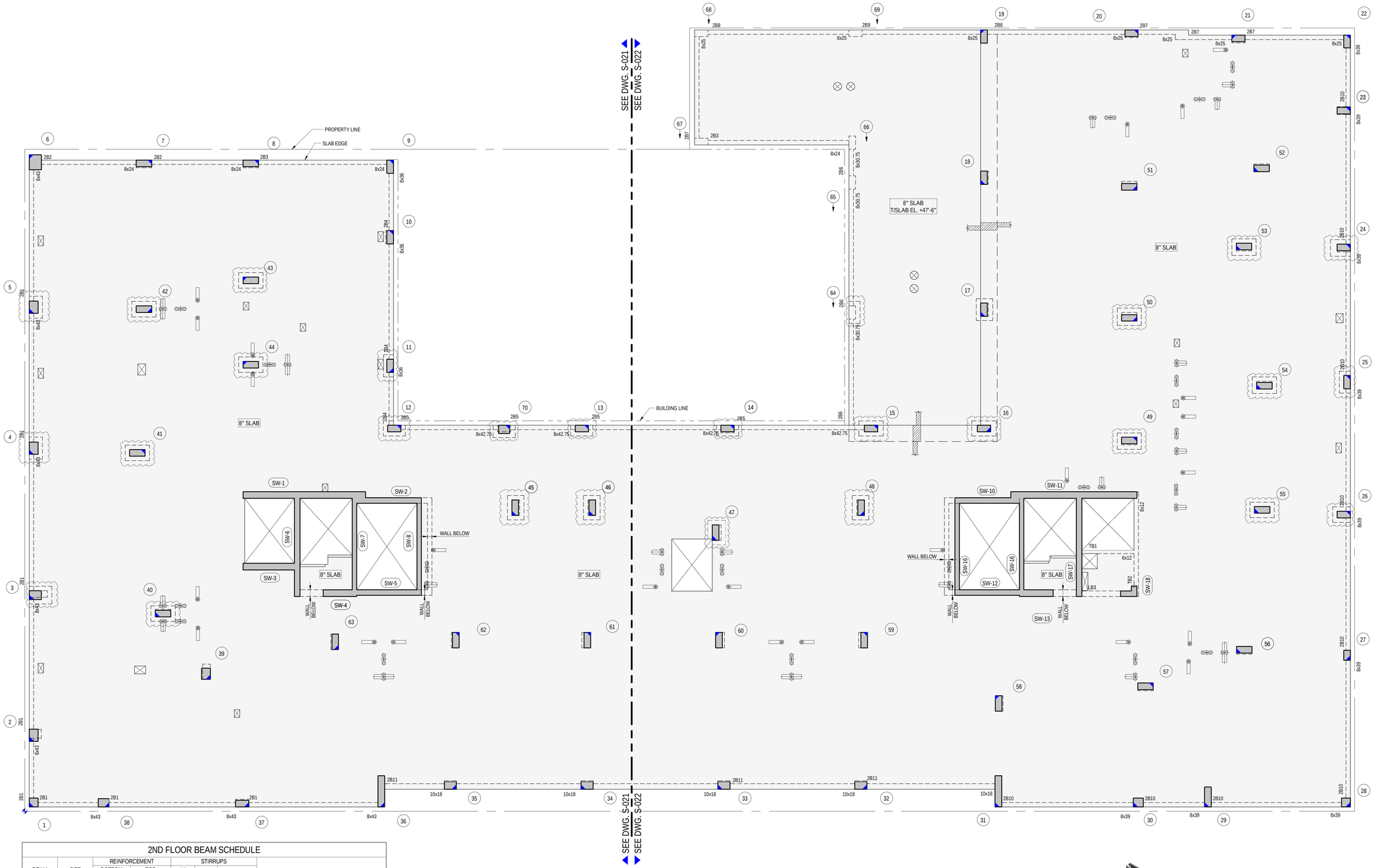


2ND FLOOR BEAM SCHEDULE

BEAM MARK	SIZE (WxD) (IN.)	REINFORCEMENT BOTTOM CONTINUOUS	REINFORCEMENT TOP CONTINUOUS	STIRRUPS TYPE	STIRRUPS SIZE	STIRRUPS SPACING	REMARKS
2B1	8x43	2-#7	2-#7	1	#4	@12	2#6 TOP ADD'L OVER COLUMN 3, 4, 5 (2ND LAYER)
2B2	8x24	2-#6	2-#6	1	#4	@12	
2B3	8x24	2-#9	2-#9	1	#4	@12	
2B4	8x36	2-#7	2-#6	1	#4	@12	2#6 TOP ADD'L OVER COLUMNS 11 (2ND LAYER)
2B5	8x42.75	2-#7	2-#6	1	#4	@12	2#6 TOP ADD'L OVER COLUMNS 13, 14, 15 (2ND LAYER)
2B6	8x30.75	2-#7	2-#7	1	#4	@12	2#6 TOP ADD'L OVER COLUMN 64 (2ND LAYER)
2B7	8x25	2-#6	2-#6	1	#4	@12	
2B8	8x25	2-#9	2-#9	1	#4	@12	
2B9	8x25	2-#6	2-#8	1	#4	@12	
2B10	8x39	2-#7	2-#6	1	#4	@12	2#6 TOP ADD'L OVER COLUMNS 24, 25, 26 (2ND LAYER
2B11	10x18	2-#9	2-#9	1	#4	@12	

TYPE 1
STIRRUPS TYPE
N.T.S.

TYPICAL BEAM SCHEDULE

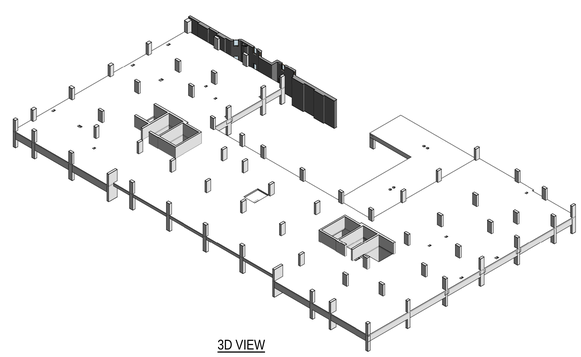
BEAM MARK	SIZE (WxD) (IN.)	REINFORCEMENT BOTTOM CONTINUOUS	REINFORCEMENT TOP CONTINUOUS	STIRRUPS TYPE	STIRRUPS SIZE	STIRRUPS SPACING	REMARKS
TB1	6x12	2-#7	2-#5	1	#3	@5	
TB2	8x12	2-#8	2-#7	1	#3	@5	

TYPE 1
STIRRUPS TYPE
N.T.S.

1 / S-020 — 2ND FLOOR FRAMING PLAN

SCALE: 3/16" = 1'-0"

NOTES:
1. TOP OF SLAB ELEVATION TO BE +48'-6" U.O.N. ON PLAN THUS
2. SLAB TO BE 8" THICK U.O.N. ON PLAN THUS
3. BOTTOM MAT REINFORCEMENT TO BE: #4@12 FOR 8" SLAB.
4. FOR BALANCE OF NOTES SEE DWG. S-010.



3D VIEW

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509 W 48 ST, NEW YORK, NY 10019
BLOCK 1077, LOT 29, BOROUGH OF MANHATTAN,

PROJECT NO: 1911668

DOB NO: XXXXXXXXXX

DRAWING TITLE:

2ND FLOOR FRAMING PLAN

SCALE: As indicated PAGE: OF XXX

S-020.00

DOB SCAN STICKER

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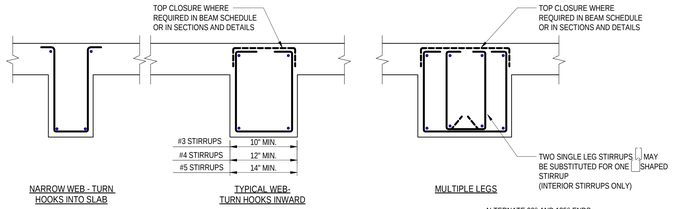
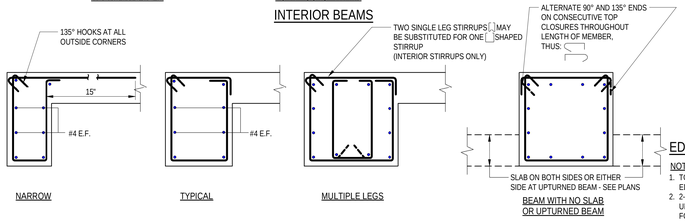
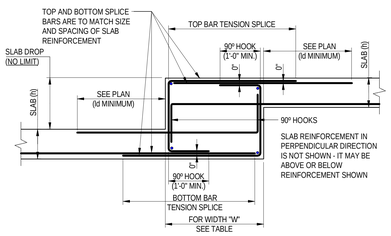


INTERIOR BEAMS



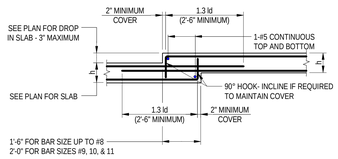
EDGE/SPANDREL BEAMS

NOTES:
1. TOP CLOSURES REQUIRED IN ALL EDGE/SPANDREL BEAMS.
2. 2-#4 E.F. IS MINIMUM FACE REINF. REQUIRED, UNLESS BEAM SCHEDULE (OR DETAIL) CALLS FOR HEAVIER REINF.



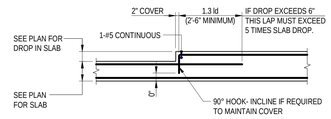
ALTERNATIVE DROP IN TOP AND BOTTOM OF SLAB USING SPLICE BARS

(DROP GREATER THAN 3")



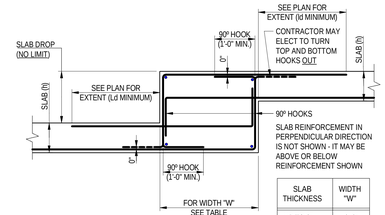
DROP IN TOP AND BOTTOM OF SLAB

(MAXIMUM DROP = 3")



DROP IN TOP OF SLAB

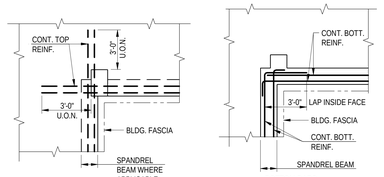
NOTE:
BARS IN OTHER DIRECTION ARE NOT SHOWN - SEE PLANS

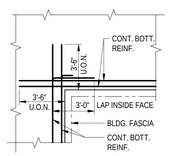


SLAB THICKNESS	WIDTH "W"
UP TO 8"	2'-0"
8"+ TO 10"	2'-6"
OVER 10"	3'-0"

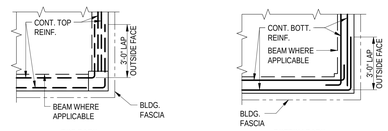
DROP IN TOP AND BOTTOM OF SLAB

(DROP GREATER THAN 3")



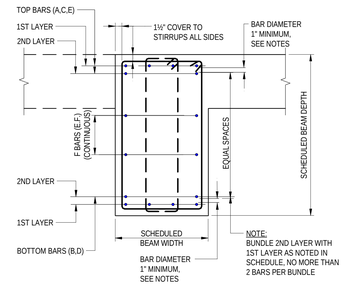


RE-ENTRANT CORNERS



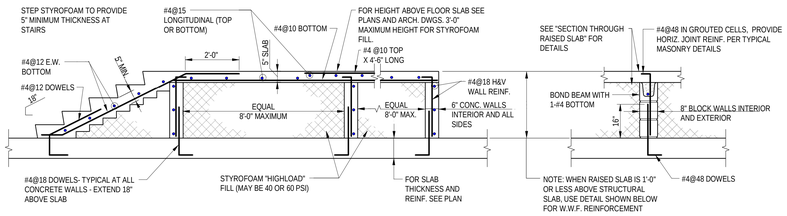
OUTSIDE CORNERS

TYPICAL EXTERIOR SLAB EDGE REINF. AT CORNERS



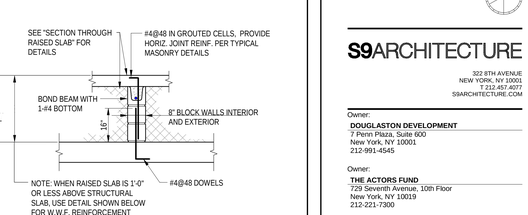
TYPICAL BEAM SECTION

NOTES:
1. WHERE BARS ARE PLACED IN TWO LAYERS THE MINIMUM CLEAR DISTANCE BETWEEN LAYERS SHALL BE THE LARGER OF: A- BAR DIAMETER, OR B: 1".
2. BEAM REINFORCEMENT SHALL BE LOCATED LATERALLY AS REQUIRED TO CLEAR COLUMN VERTICAL REINFORCEMENT.
3. WHERE BEAMS MEET AND CROSS EACH OTHER AT A SUPPORT, THE SHALLOWER BEAM SHALL HAVE ITS TOP REINFORCEMENT PLACED IN THE OUTERMOST (TOP) LAYER.
4. IN THE EVENT ONE CROSSING BEAM IS A CANTILEVER, THE CANTILEVER BEAM SHALL HAVE ITS TOP REINFORCEMENT PLACED IN THE OUTERMOST (TOP) LAYER.
5. WHERE F BARS (FACE BARS) ARE INDICATED IN THE BEAM SCHEDULE, THEY SHALL BE UNIFORMLY SPACED ON BOTH BEAM FACES AND SHALL BE CONTINUOUS, WITH STAGGERED 30 @ LAP SPLICES
6. SEE SCHEDULE OF SHEAR REINFORCEMENT FOR DEEP BEAMS (D> Ln/4) FOR MINIMUM STIRRUP AND FACE BAR REQUIREMENTS.
7. THE FIRST STIRRUP AT EACH END SHALL BE PLACED AT ½ THE FIRST SCHEDULED SPACE FROM THE FACE OF SUPPORTING MEMBER. SUBSEQUENT STIRRUPS SHALL BE SPACED AS INDICATED IN THE BEAM SCHEDULE. THE SCHEDULE GIVES NUMBER OF SPACES, NOT NUMBER OF STIRRUPS.
8. WHERE MORE THAN ONE STIRRUP IS INDICATED IN A SET, PLACE EACH SET AT THE SCHEDULED SPACING.
9. SCHEDULED STIRRUP SPACING IS THE SAME AT EACH END UNLESS OTHERWISE NOTED
10. PROVIDE #4 CLOSED TIE STIRRUPS @ 18" O/C WHERE SCHEDULED STIRRUPS DO NOT EXTEND TO END OF TOP BARS.

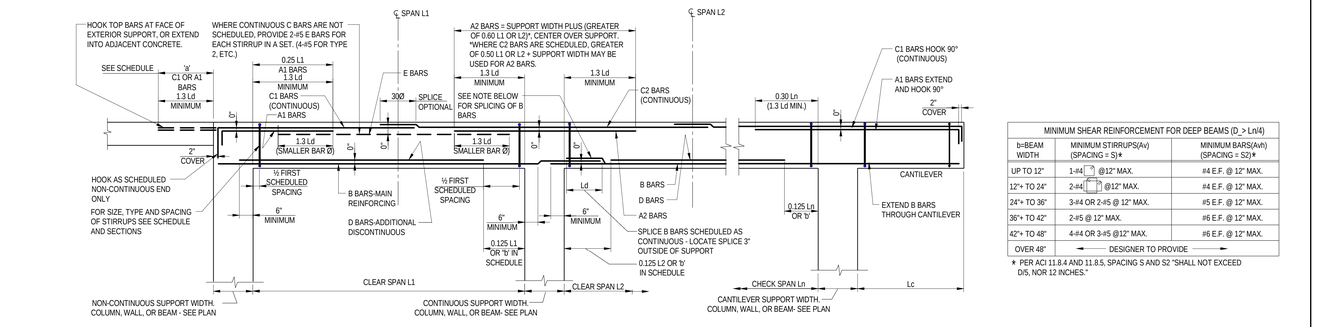


SECTION THROUGH RAISED SLAB FORMED WITH STYROFOAM

NOTES:
1. FOR STAIR TREADS, RISERS, AND WIDTH SEE ARCH. DWGS.
2. WHEN REQUIRED HEIGHT OF RAISED SLAB EXCEEDS 3'-0" USE STEEL DECK FORMS ALTERNATIVE. (STEEL DECK FORMED SLABS HAVE NO HEIGHT RESTRICTIONS, MINIMUM OR MAXIMUM)



RAISED SLAB - ALTERNATIVE SUPPORTING WALL

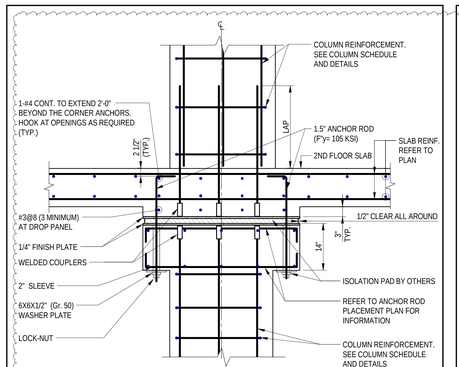


NOTE:
USE TYPICAL CUTOFF LENGTHS SHOWN UNLESS 'a' OR 'b' DIMENSIONS OR OTHER DIMENSIONS ARE GIVEN IN THE BEAM SCHEDULE

TYPICAL BEAM ELEVATION

MINIMUM SHEAR REINFORCEMENT FOR DEEP BEAMS (D_> Ln/4)		
b=BEAM WIDTH	MINIMUM STIRRUPS(Av) (SPACING = S)*	MINIMUM BARS(Avh) (SPACING = S2)*
UP TO 12"	1-#4 [ ] @12" MAX.	#4 E.F. @ 12" MAX.
12"+ TO 24"	2-#4 [ ] @12" MAX.	#4 E.F. @ 12" MAX.
24"+ TO 36"	3-#4 OR 2-#5 @ 12" MAX.	#5 E.F. @ 12" MAX.
36"+ TO 42"	2-#5 @ 12" MAX.	#6 E.F. @ 12" MAX.
42"+ TO 48"	4-#4 OR 3-#5 @12" MAX.	#6 E.F. @ 12" MAX.
OVER 48"	DESIGNER TO PROVIDE	

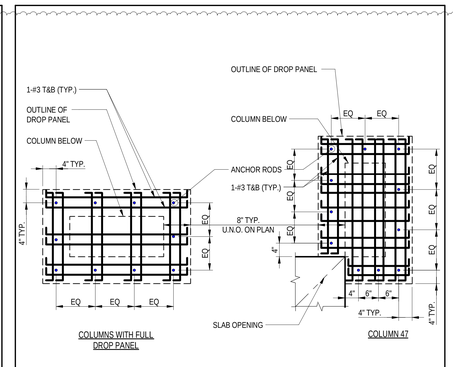
* PER ACI 11.8.4 AND 11.8.5, SPACING S AND S2 "SHALL NOT EXCEED D/5, NOR 12 INCHES."



VIBRATION ISOLATION DETAIL AT INTERIOR COLUMNS

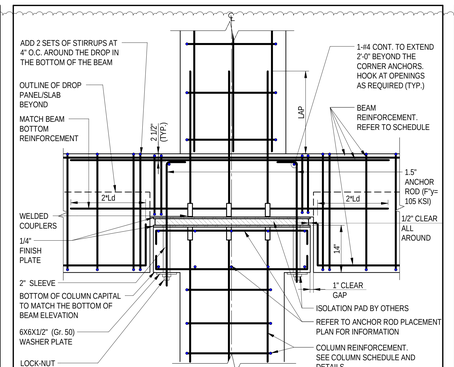
(ELEVATION)

NOTES:
1. REFER TO THE ISOLATION CONSULTANT DRAWINGS FOR ISOLATION PADS INFORMATION
2. LOCK-NUT TO BE TIGHTENED REGULARLY UP TO 1 YEAR AFTER COMPLETION OF THE STRUCTURE.



ANCHOR ROD AND REBAR PLACEMENT FOR VIBRATION ISOLATION DETAIL AT INTERIOR COLUMNS AND COLUMN 15

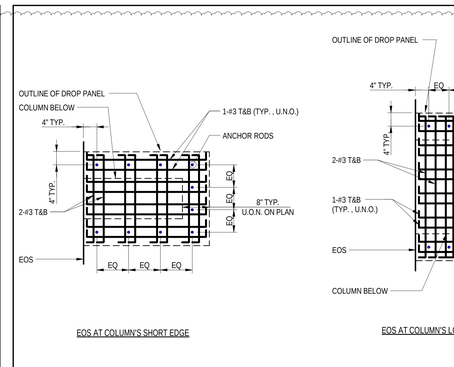
(PLAN)



VIBRATION ISOLATION DETAIL AT EDGE COLUMNS AND COLUMN 15

(ELEVATION)

NOTES:
1. REFER TO THE ISOLATION CONSULTANT DRAWINGS FOR ISOLATION PADS INFORMATION
2. LOCK-NUT TO BE TIGHTENED REGULARLY UP TO 1 YEAR AFTER COMPLETION OF THE STRUCTURE.
3. SLAB REINFORCEMENT NOT SHOWN FOR CLARITY.



ANCHOR ROD AND REBAR PLACEMENT FOR VIBRATION ISOLATION DETAIL AT EDGE COLUMNS

(PLAN)

NO.	DATE	REVISION
1	08-03-20	SCHEMATIC DESIGN-AMTRAK UPDATE
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Landscape Architect:
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Vertical Transportation Consultant:
LERCH BATES
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347-625-6289

PROJECT TITLE:

509 WEST 48TH ST

509 W 48 ST, NEW YORK, NY 10019
BLOCK 1077, LOT 29, BOROUGH OF MANHATTAN,

PROJECT NO: 1911668

DOB NO: XXXXXXXXXX

DRAWING TITLE:

TYPICAL SUPERSTRUCTURE DETAILS 1

SCALE: As indicated PAGE: OF XXX

S-960.00

DOB SCAN STICKER

SEAL

NOT FOR CONSTRUCTION

12/13/19 CHECKED BY: Checker

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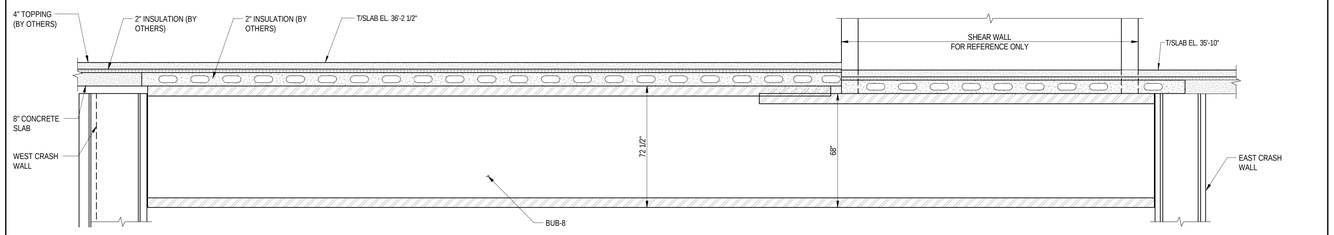
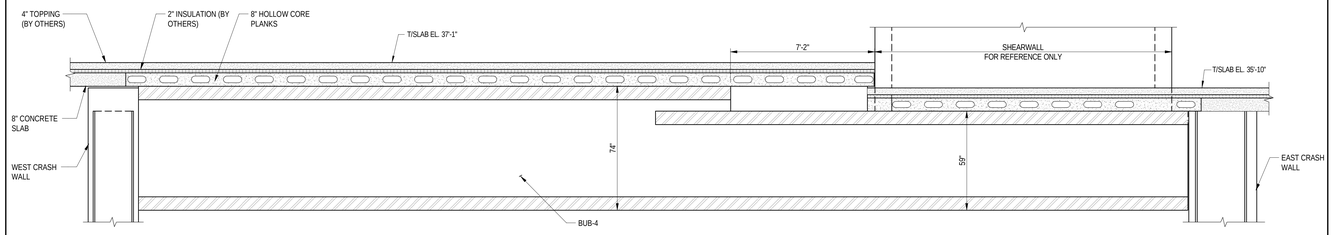


1 S-975 BU-8 (ELEVATION)
SCALE: 3/8" = 1'-0"



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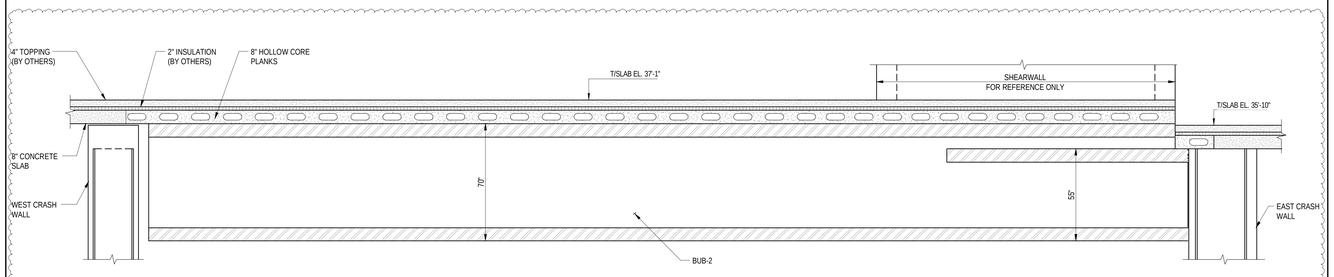

3 S-975 BU-2 (ELEVATION)
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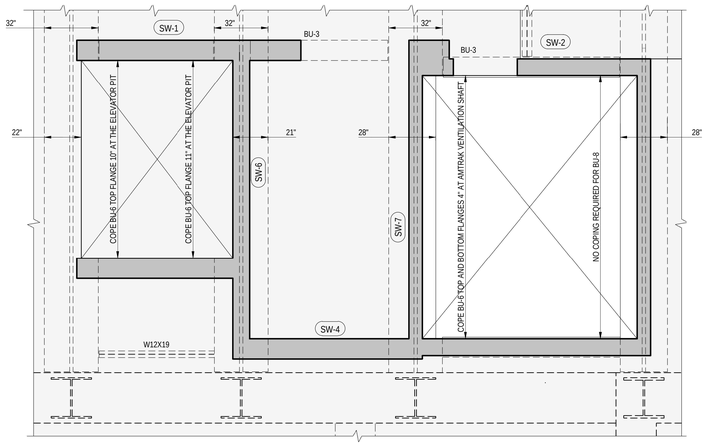
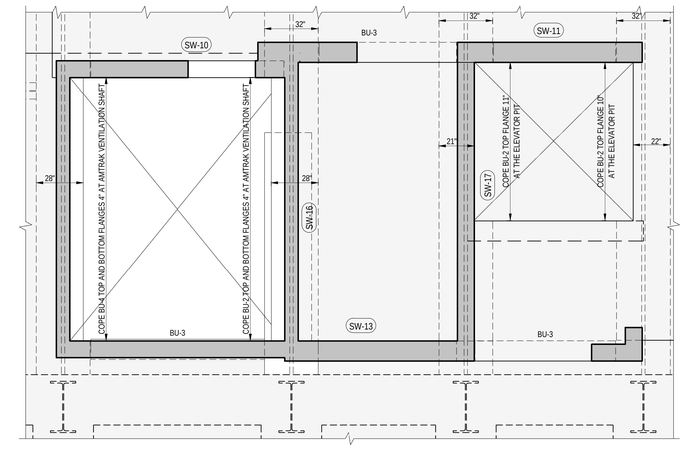


4 S-975 GIRDER COPING PART PLAN AT SOUTH CORE WALL
SCALE: 3/8" = 1'-0"



5 S-975 GIRDER COPING PART PLAN AT NORTH CORE WALL
SCALE: 3/8" = 1'-0"

NO.	DATE	REVISION
1	10-05-21	75% CD SUBMISSION
2	05-19-23	AMTRAK RESUBMISSION
3	08-23-23	AMTRAK RESUBMISSION
4	08-28-23	S-SK-002

NO.	DATE	ISSUE

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PROJECT NO: 1911668

DOB NO: XXXXXXXXXXX

DRAWING TITLE:
SUPERSTRUCTURE STEEL SECTIONS

SCALE: 3/8" = 1'-0" PAGE: OF XXX

S-975.00

DOB SCAN STICKER

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