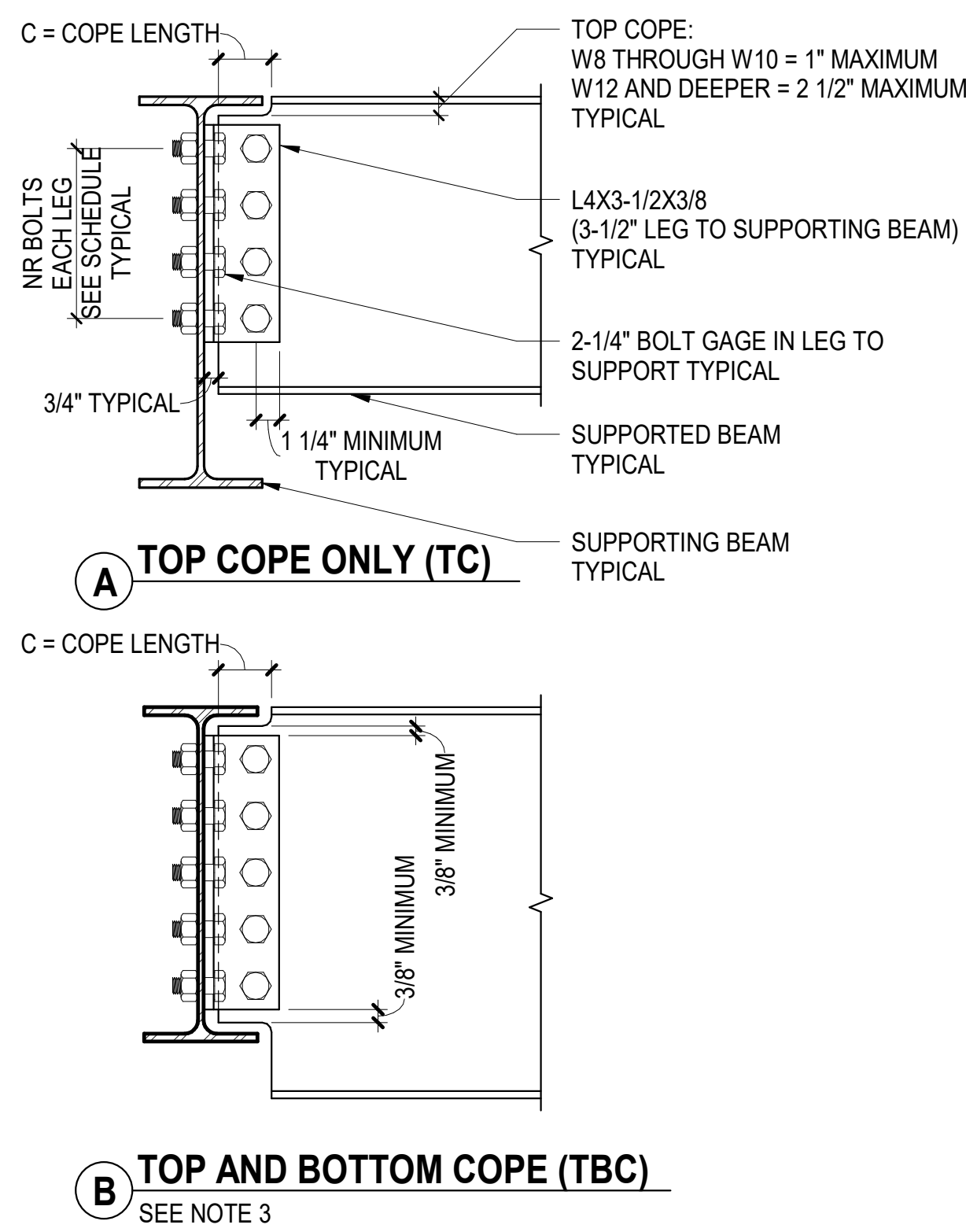


NOTES:

- ALL SHEAR CONNECTIONS PROVIDED ON THIS SHEET ARE COMPLETELY DESIGNED
REFER TO STRUCTURAL GENERAL NOTES FOR ADDITIONAL REQUIREMENTS
- ALL CONNECTION CAPACITIES PROVIDED IN SCHEDULES ARE STRENGTH LEVEL PER AISC-LOAD
AND RESISTANCE FACTOR DESIGN. SELECT CONNECTION CAPACITY BASED ON FACTORED
SHEAR REACTIONS SHOWN ON PLAN AND REQUIREMENTS OF DETAILS
- SINGLE PLATE, SINGLE ANGLE, OR DOUBLE ANGLE CONNECTIONS MAY BE USED AT THE
CONTRACTOR'S OPTION UNLESS OTHERWISE NOTED IN THE CONSTRUCTION DOCUMENTS
- ALL CONNECTION SHOWN ARE DESIGNED UTILIZING BOLTS INDICATED
- THE FOLLOWING MINIMUM BOLT EDGE DISTANCES AND SPACING SHALL BE USED:
HORIZONTAL EDGE DISTANCE = 1-1/2" UON
VERTICAL EDGE DISTANCE = 1-1/2"
SPACING = 3"
- ALL CONNECTIONS SHOWN ARE DESIGNED UTILIZING ANGLE MATERIAL CONFORMING
TO ASTM A572 OR A529 GRADE 50
- WHERE SINGLE ANGLE OR DOUBLE ANGLE CONNECTIONS ARE ALIGNED EACH SIDE OF THE
SUPPORTING BEAM WEB (SHARED BOLTS), MINIMUM SUPPORTING BEAM WEB THICKNESS
SHALL BE 0.25" FOR W8-W14 CONNECTIONS AND 0.35" FOR W16 AND DEEPER CONNECTIONS.
CONNECTION SHALL BE DETAILED TO PERMIT ERECTION OF BEAMS EACH SIDE
PER OSHA STANDARDS
- NOTATIONS:
SSLT INDICATES SHORT SLOTTED HOLES TRANSVERSE TO LINE OF FORCE

1 ANGLE SHEAR CONNECTION NOTES



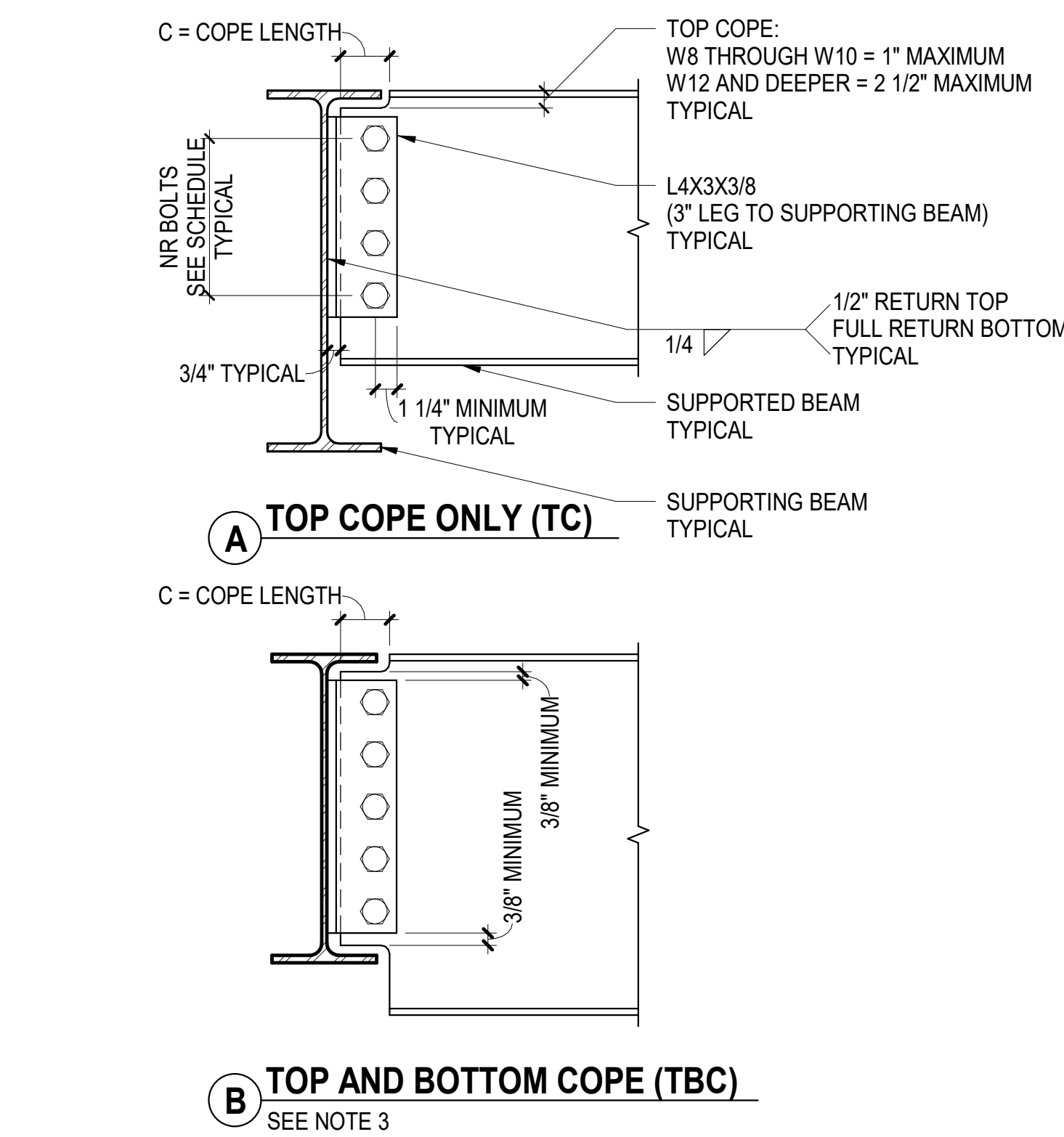
NOTES:

- SEE TYPICAL ANGLE SHEAR CONNECTION GENERAL NOTES FOR ADDITIONAL INFORMATION
- SELECT CONNECTION CAPACITY BASED ON COPEDED CONDITION OF BEAM
- TBC VALUES IN TABLE ALSO APPLY TO BOTTOM COPE ONLY CONDITION
- SSLT HOLES IN ANGLE LEG TO SUPPORTED BEAM, STANDARD HOLES IN ANGLE LEG TO SUPPORT

2 TYPICAL SINGLE ANGLE SHEAR CONNECTION AT BEAM (TYPE L1) - BOLTED-BOLTED

NOT TO SCALE

TYPE L1 SINGLE ANGLE SHEAR CONNECTION SCHEDULE: 3/4" DIAMETER ASTM F3125-N BOLTS GRADES A325 OR F1852									
BEAM SIZE	NR BOLTS	CONNECTION CAPACITY (KIPS)							
		NO COPE	C = 4"		C = 6"		C = 8"		
			TC	TBC	TC	TBC	TC	TBC	
W8	x10	2	18	18	9	14	6	11	4
	x13-24	2	18	18	13	18	9	14	7
	x28+	2	18	18	16	18	11	18	9
W10	x12	2	18	18	11	18	7	18	5
	x15-26	2	18	18	13	18	9	18	7
	x30+	2	18	18	17	18	12	18	9
W12	x14-16	2	18	18	11	18	8	18	6
		3	33	33	25	28	16	20	11
	x19-30	2	18	18	13	18	9	18	7
W14		3	33	33	30	33	20	28	14
		2	18	18	17	18	12	18	9
	x35+	3	33	33	33	33	27	33	20
W16	x22-30	3	33	33	29	33	19	33	14
	x34-48	3	33	33	33	33	26	33	19
	x53+	3	33	33	33	33	33	33	26
W18	x26-31	3	36	36	32	36	22	36	16
		4	55	55	55	55	37	54	26
	x36-40	3	36	36	36	36	27	36	20
W20		4	55	55	55	55	47	55	33
	x45+	3	36	36	36	36	31	36	24
		4	55	55	55	55	55	55	42
W22	x35-50	3	36	36	36	36	27	36	20
		4	55	55	55	55	48	55	34
	x55+	5	74	74	74	74	73	74	52
W24		3	36	36	36	36	35	36	27
		4	55	55	55	55	55	55	48
		5	74	74	74	74	74	74	74
W26		4	55	55	55	55	55	55	43
		5	74	74	74	74	74	74	74
		6	92	92	91	92	91	92	91
W28		7	107	107	107	107	107	107	107
		8	123	123	123	123	123	123	123
		9	138	138	138	138	138	138	138
W30		10	154	154	154	154	154	154	154



NOTES:

- SEE TYPICAL ANGLE SHEAR CONNECTION GENERAL NOTES FOR ADDITIONAL INFORMATION
- SELECT CONNECTION CAPACITY BASED ON COPEDED CONDITION OF BEAM
- TBC VALUES IN TABLE ALSO APPLY TO BOTTOM COPE ONLY CONDITION
- SSLT HOLES IN ANGLE LEG TO SUPPORTED BEAM, STANDARD HOLES IN ANGLE LEG TO SUPPORT

3 TYPICAL SINGLE ANGLE SHEAR CONNECTION AT BEAM (TYPE L2) - BOLTED-WELDED

NOT TO SCALE

TYPE L2 SINGLE ANGLE SHEAR CONNECTION SCHEDULE: 3/4" DIAMETER ASTM F3125-N BOLTS GRADES A325 OR F1852									
BEAM SIZE	NR BOLTS	CONNECTION CAPACITY (KIPS)							
		NO COPE	C = 4"		C = 6"		C = 8"		
			TC	TBC	TC	TBC	TC	TBC	
W8	x10	2	25	20	9	14	6	11	4
	x13-24	2	32	27	13	19	9	14	7
	x28+	2	34	34	16	26	11	20	9
W10	x12	2	28	28	11	24	7	19	5
	x15-26	2	32	32	13	30	9	23	7
	x30+	2	34	34	17	34	12	34	9
W12	x14-16	2	30	29	11	28	8	20	6
		3	47	40	25	28	16	20	11
	x19-30	2	32	32	13	32	9	28	7
W14		3	50	49	30	37	20	28	14
		2	34	34	17	34	12	34	9
	x35+	3	54	54	38	54	27	41	20
W16	x22-30	3	50	48	29	48	19	37	14
	x34-48	3	53	53	36	53	26	51	19
	x53+	3	54	54	47	54	33	54	26
W18	x26-31	3	51	51	32	51	22	51	16
		4	69	67	57	67	37	54	26
	x36-40	3	54	54	38	54	27	54	20
W20		4	72	72	67	72	47	70	33
	x45+	3	54	54	44	54	31	54	24
		4	72	72	72	72	55	72	42
W22	x35-50	3	54	54	38	54	27	54	20
		4	72	72	68	72	48	72	34
	x55+	5	89	89	89	89	73	88	52
W24		3	54	54	50	54	35	54	27
		4	72	72	72	72	62	72	48
		5	89	89	89	89	89	89	75
W26		4	72	72	72	72	56	72	43
		5	89	89	89	89	89	89	75
		6	107	107	91	107	91	107	91
W28		7	125	125	125	125	125	125	125
		8	143	143	143	143	143	143	143
		9	161	161	161	161	161	161	161
W30		10	179	179	179	179	179	179	179

NOTES:

- SEE TYPICAL ANGLE SHEAR CONNECTION GENERAL NOTES FOR ADDITIONAL INFORMATION
- SELECT CONNECTION CAPACITY BASED ON COPEDED CONDITION OF BEAM
- TBC VALUES IN TABLE ALSO APPLY TO BOTTOM COPE ONLY CONDITION
- SSLT HOLES IN ANGLE LEG TO SUPPORTED BEAM, STANDARD HOLES IN ANGLE LEG TO SUPPORT

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Building #17
Campus Expansion Child
Day-care Center

777 Old Saw Mill River Road
Mount Pleasant, NY 10591
Project No. B17-DAYCARE

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Structural Engineer

Thornton Tomasetti
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MEP / IT / Security Engineer

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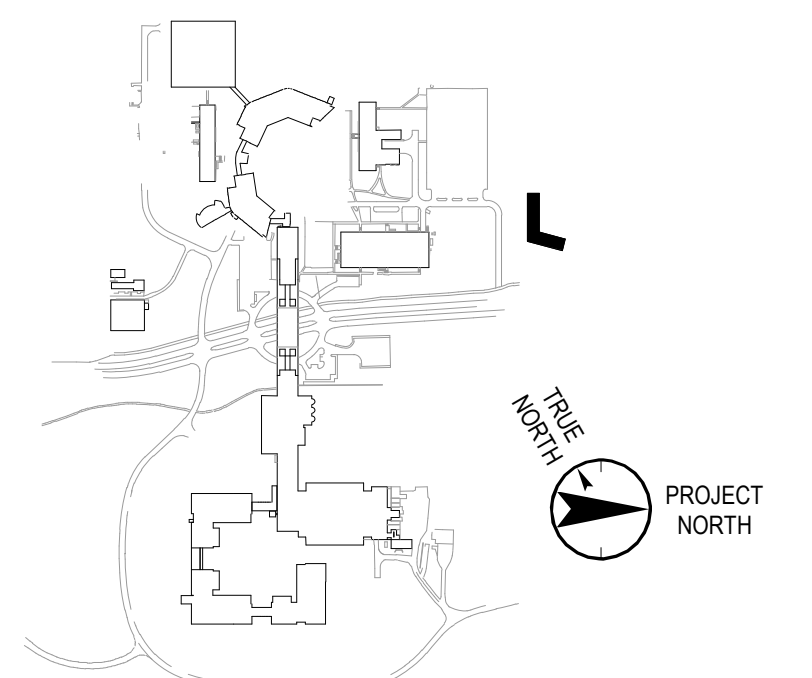
Civil Engineer

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(914) 273-2102 Fax

Landscape Architect

Langan
21 Penn Plaza, 360 West 31st Street, 8th Floor
New York, NY 10001
(212) 479-5400 Phone
(212) 479-5444 Fax

Key Plan



No.	Date	Description
	05.20.2022	ISSUED FOR PERMIT
	06.20.2022	100% CONSTRUCTION DOCUMENTS
	07.01.2022	100% CONSTRUCTION DOCUMENT-1

Plot Date: 09/19/18
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Professional Seal and Signature

Vendor Name: GENSLER
Vendor Project No.: 006.3608.000
Discipline: Drawn By: TLL
TYPICAL STEEL BEAM SHEAR
CONNECTIONS 3/4"
DIAMETER BOLTS

Scale: NOT TO SCALE Floor:

S-511