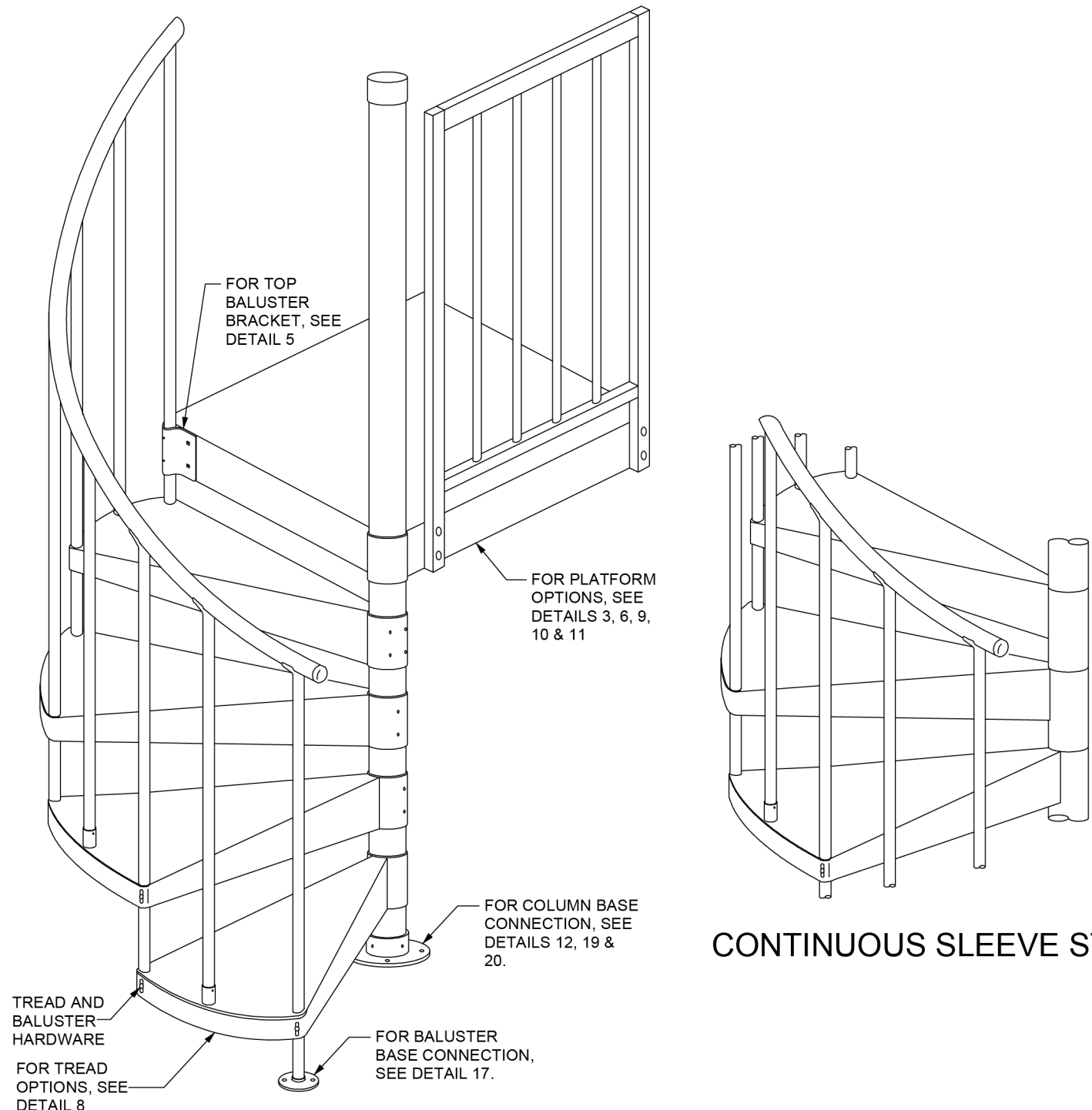
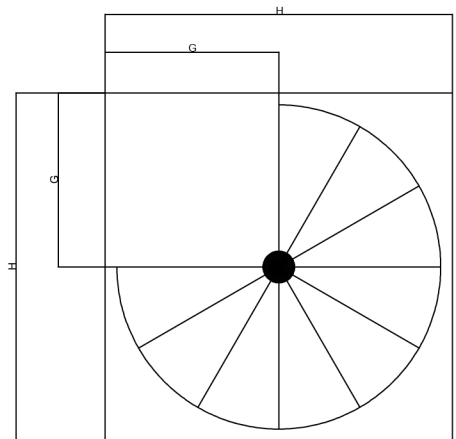


STAIR NOTES:

- ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH LOCAL AND STATE BUILDING CODE REQUIREMENTS.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR INSURING THAT ALL WORK BE PERFORMED IN STRICT COMPLIANCE WITH OSHA SAFETY REQUIREMENTS.
- CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF CONSTRUCTION.
- FOUNDATIONS SHALL REST ON UNDISTURBED SOIL CAPABLE OF A MINIMUM BEARING PRESSURE OF 2,000 PSF. THE ENGINEER SHALL BE NOTIFIED FOR REDESIGN IF THIS MINIMUM VALUE CANNOT BE ATTAINED.
- ALL CONCRETE CONSTRUCTION SHALL CONFORM WITH ACI 318.02. ALL CONCRETE SHALL DEVELOP A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 3,000 PSI IN 28 DAYS.
- NO CONCRETE SHALL BE POURED WHEN THE TEMPERATURE IS 40 DEGREES FARENHEIT AND FALLING. ALL CONCRETE SHALL BE CURED IN ACCORDANCE WITH THE LATEST ACI CODE.
- ALL CONCRETE EXPOSED TO WEATHER SHALL CONTAIN AN AIR ENTRAINED ADMIXTURE CONFORMING TO ASTM A 185.
- ALL REINFORCING STEEL SHALL BE ASTM A 615, GRADE 60. ALL WELDED WIRE MESH SHALL CONFORM TO ASTM A 185.
- ALL STRUCTURAL STEEL FABRICATION AND ERECTION SHALL CONFORM TO AISC "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS" NINTH EDITION, AND AWS "CODE FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION". ANCHOR BOLTS SHALL BE ASTM A 307, ALL STEEL SHALL BE CLEANED OF RUST, LOOSE MILL SCALE AND OTHER FOREIGN MATERIALS.
- ALL SHOP AND FIELD WELDING SHALL CONFORM WITH AWS D1.1-03 SPECIFICATIONS. ALL FIELD BOTLS SHALL BE ASTM A 325.
- ALL WOOD FRAMING SHALL CONFIRM TO THE RECOMMENDED PRACTICE OF THE NATIONAL SPECIFICATIO OF THE NATIONAL FOREST PRODUCTS ASSOCIATION.
- CUSTOM OPTIONS ARE AVAILABLE FOR PLATFORMS, TREADS AND RAILS. TYPICAL WIDTH OF ALL PLATFORMS IS ONE INCH LARGER THAN THE RADIUS OF THE STAIRS; HOWEVER, CUSTOM SIZES ARE AVAILABLE. CUSTOM PIECES FOR ALL ASPECTS OF THE STAIR CAN BE CREATED.



1 STEEL SPIRAL STAIR ISOMETRIC



A = TREAD RADIUS  
B = CLEAR WALKING PATH  
C = TRUE TREAD DEPTH  
D = STEEL TREAD WIDTH  
E = WOOD COVER WIDTH  
F = HUB HEIGHT  
G = PLATFORM SIZE  
H = RECOMMENDED FINISHED WELL OPENING  
I = TREAD OVERHANG

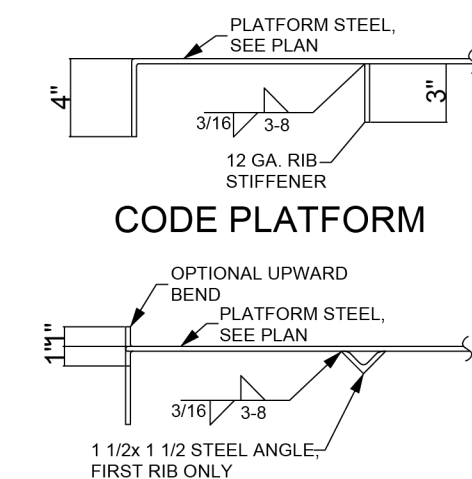
DIAMETER OF STAIR	30" 3'-6"	30" 4'-0"	30" 4'-6"	22.5" 5'-0"	30" 5'-0"	22.5" 5'-6"	30" 5'-6"	16.36" 5'-6"	22.5" 6'-0"	30" 6'-0"	16.36" 6'-6"
A	20 1/2"	23 1/2"	26 1/2"	29 1/2"	32 1/2"	32 1/2"	32 1/2"	35 1/2"	35 1/2"	38 1/2"	38 1/2"
B	17"	20"	23"	26"	29"	29"	29"	29"	32"	32"	35"
C	7 1/2"	7 1/2"	7 1/2"	5 9/16"	7 1/2"	5 9/16"	7 1/2"	4"	5 9/16"	7 1/2"	4"
D	11 1/2"	13 1/4"	15"	13"	16"	14"	17 1/2"	10 3/4"	15"	19 1/2"	12 1/2"
E	13 1/2"	15 1/4"	17"	15"	18"	16"	19 1/2"	12 3/4"	17"	21 1/2"	14 1/2"
F	4"	4"	5"	5"	5"	6"	6"	6"	6"	6"	6"
G	22"x22"	25"x25"	28"x28"	31"x31"	31"x31"	34"x34"	34"x34"	N/A	37"x37"	37"x37"	N/A
H	44"x44"	50"x50"	56"x56"	62"x62"	62"x62"	68"x68"	68"x68"	36"x67"	74"x74"	74"x74"	42"x79"
I	7 5/16"	7 5/16"	7 5/16"	5 1/2"	7 5/16"	5 1/2"	7 5/16"	4"	5 1/2"	7 5/16"	4"
ROTATION WITH 12 TREADS	360	360	360	270	360	270	360	180	270	360	180

1B TREAD SIZES & DIMENSION CHART

COLUMNS			
O.D.	I.D.	WALL THICK	MATERIAL
3.5"	3.25"	0.120"	TUBE
3.5"	3.068"	0.216"	SCHD 40 PIPE
3.5"	2.9"	0.300"	SCHD 80 PIPE
6"	5.625"	0.188"	TUBE
6.625"	6.065"	0.280"	SCHD 40 PIPE
HUBS			
O.D.	I.D.	WALL THICK	MATERIAL
4"	3.56"	0.220"	TUBE

1C COLUMN & HUB SCHEDULE

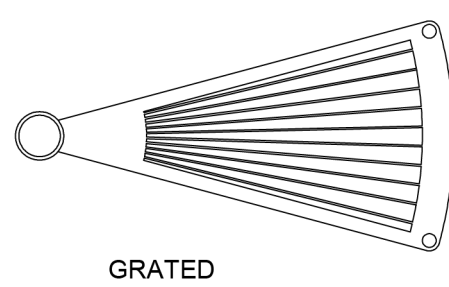
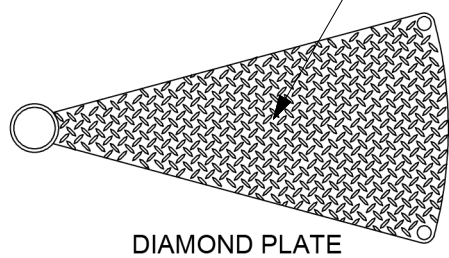
2 90° "CURVED" PLATFORM PLAN



MAX. HEADROOM PLATFORM

5 PLATFORM SECTION

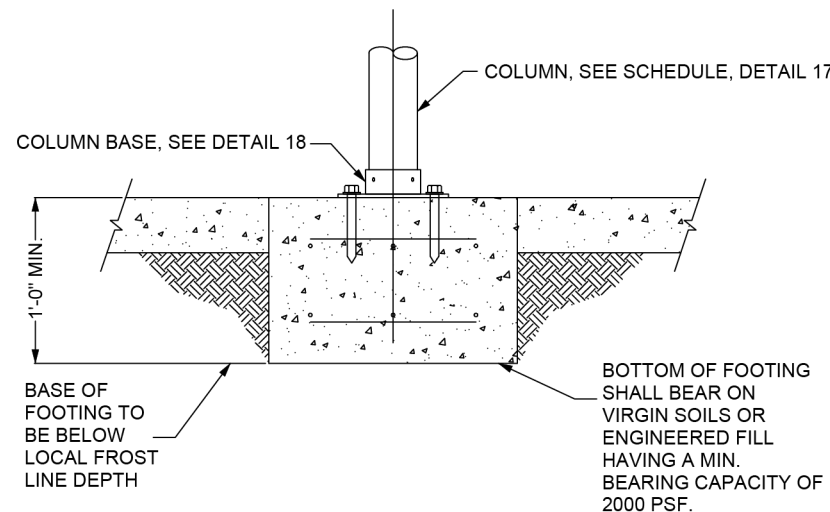
NB: FIRST TWELVE (12) TREADS TO A HEIGHT OF 7'-0" AFL, WHICHEVER IS GREATER.



6 TREAD TOPS

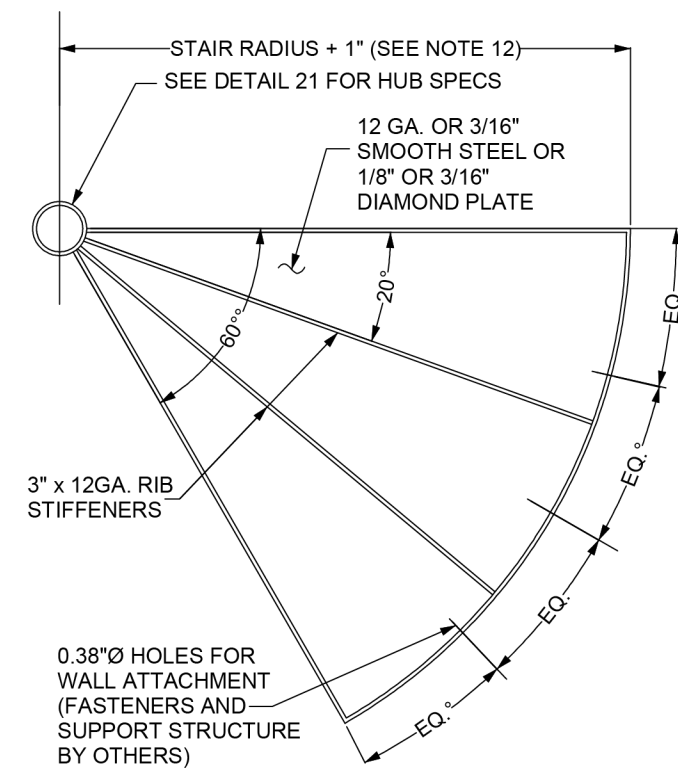


7 TREAD PROFILE

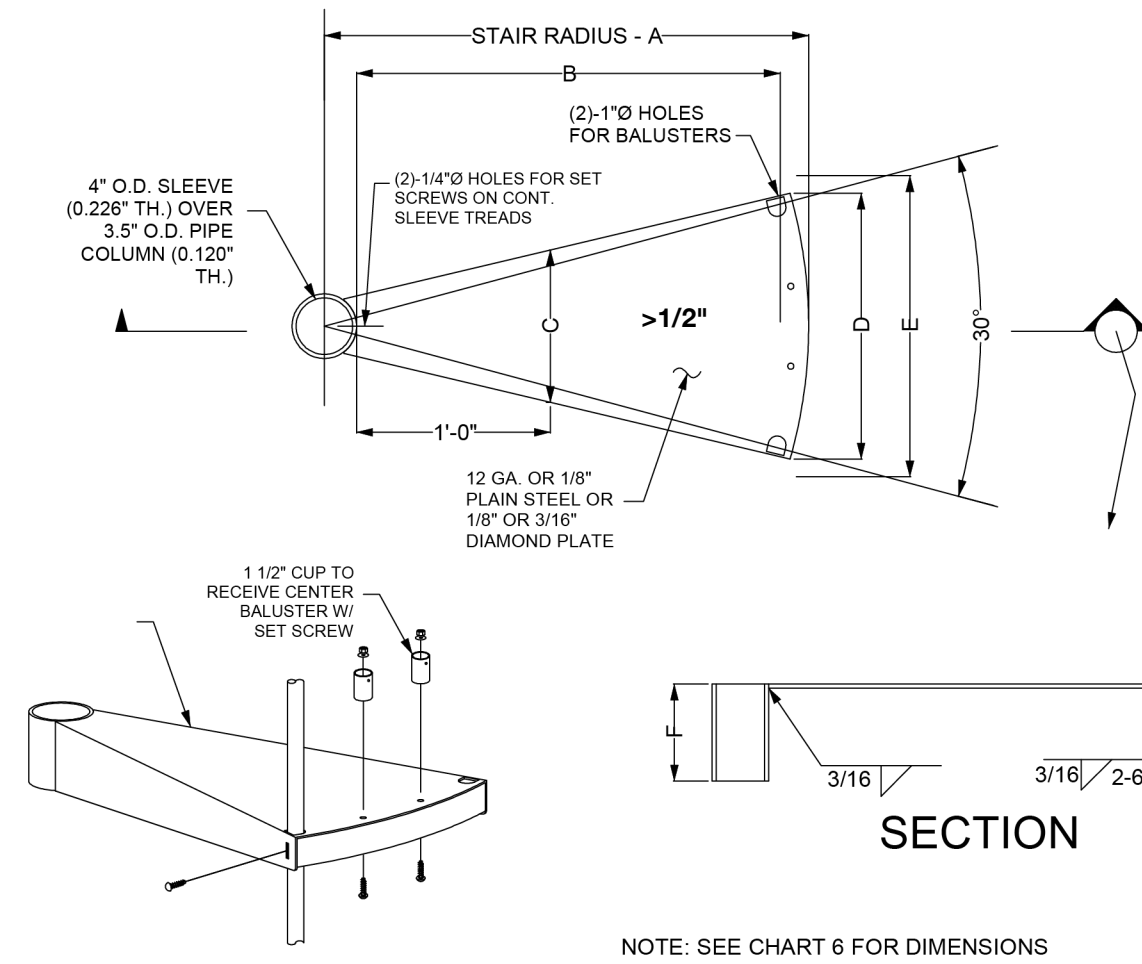
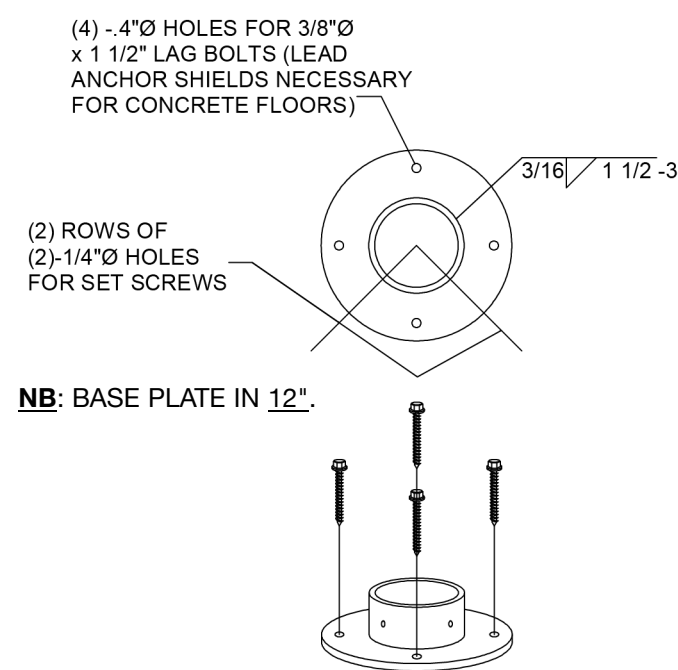


12 FOUNDATION COLUMN BASE

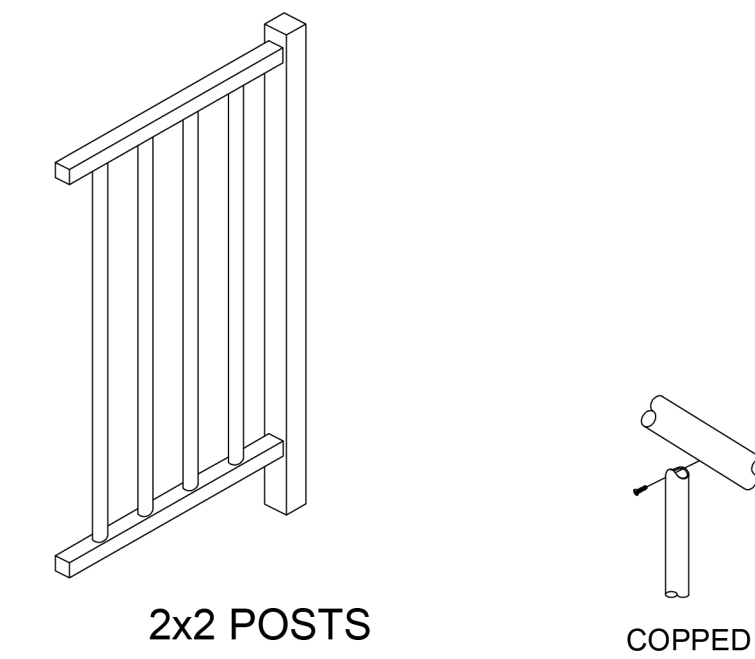
3 60° "CURVED" PLATFORM PLAN



13 POST BASE PLATE

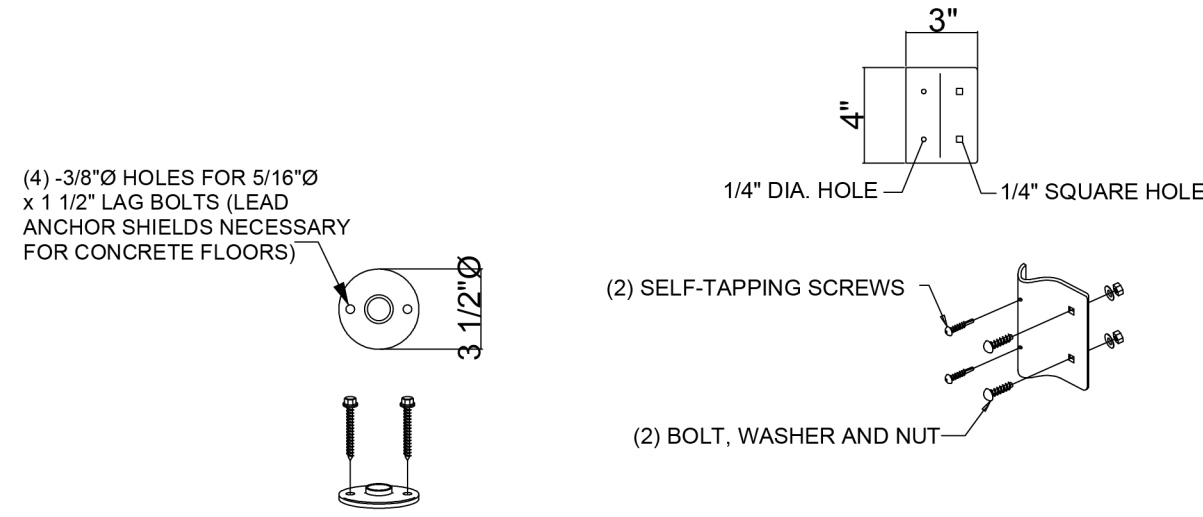


4 TREAD END PLAN



6 RAILING

7 BALUSTER TIP



10 BALUSTER BASE PLATE

11 TOP BALUSTER BRACKET

THOMAS A. FENNIMAN  
ARCHITECT  
ONE UNION SQUARE WEST  
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TEL: 212.414.0250

NORFAST ENGINEERING  
21-37 23RD STREET  
ASTORIA, NY 11105  
TEL: 718.545.5734

STUTZKI ENGINEERING  
241 N BROADWAY #302  
MILWAUKEE, WI 53202  
TEL: (414) 455 4815

SEAL:

REVISION:  
50% CD set: 12/20/19.  
90% CD set: 04/20/20.  
100% CD set: 07/06/20.  
BID ISSUE: 07/22/20.  
DOB ISSUE: 01/20/21.  
Added detail numbers.

RENWICK LIGHTHOUSE, Lighthouse Park,  
RESTORATION, MODIFICATIONS  
& SITE IMPROVEMENTS

TITLE:  
STAIR  
DETAILS

DATE:  
4/23/18

PROJECT #:  
44701

SCALE:  
AS NOTED

DRAWN BY:  
SH

SHEET NUMBER:  
A-501.00

PAGE NUMBER:  
11 of 12

NYC DOB NUMBER:  
M00449536