

PROJECT: Kasaan Covered Play Area

Barry Stewart School
Kasaan, AK 99919

CLIENT:
Southeast Island School District
PO Box 19569
Thorne Bay, AK 99919

MILLARD + ASSOCIATES ARCHITECTS
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50% CD PROGRESS DOCUMENTS

Kasaan Covered Play Area
Southeast Island School District
Kasaan, Alaska 99919

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CODE ANALYSIS

INTERNATIONAL BUILDING CODE 2012

SISD- KASAAN COVERED PLAY AREA

A. OCCUPANCY

Occupancy Classification: Group U: Utility

B. TYPE OF CONSTRUCTION

Type II-B: Non-Rated Construction

C. ALLOWABLE HEIGHT (Type V)

Basic Allowable Group U: 2-Story, 55 Feet
Proposed: 1-Story, 30 Feet

D. ALLOWABLE AREA

Basic Allowable Group U: 8,500 S.F.
Proposed: 3,000 S.F.

E. OCCUPANT LOAD- Existing & New

Covered Play Area: 3,000 sf/50gsf 60

Total Building Occupants: 60

SITE & ZONING

ADDRESS: Kasaan, Alaska
Property Owner: Southeast Island School District

A. LEGAL DESCRIPTION

Lot 8, Block 8, USS 1896

B. LOT SIZE

13,000 SF

PROJECT TEAM

ARCHITECT

Millard+Associates Architects LLC
309 Stedman St.
Ketchikan, AK 99901
Tel: 907.225.7133
Contact: Linda Millard, Principal

STRUCTURAL ENGINEERING

PND Engineers, Inc.
9360 Glacier Hwy, Suite 100
Juneau, Alaska 99801
Tel: 907.586.2099
Contact: Chris Gianotti, Principal

ELECTRICAL ENGINEERING

Haight & Associates, Inc.
526 Main St.
Juneau, Alaska 99801
Tel: 907.586.9788
Contact: Ben Haight, Principal

PROJECT DESCRIPTION

The project involves procurement and erection of a pre-manufactured steel structure on a new concrete slab on grade floor and foundation on a partially developed site in the community of Kasaan. The 3,000 sf gable roofed steel structure will be partially enclosed on 3 sides with metal panel siding and translucent panels. Plywood skirting will be applied at the interior of walls to 12'-0" height and painted. LED lighting fixtures will provide lighting for evening use. The Work includes all site work and utilities, and miscellaneous sport equipment.

VICINITY MAP



ARCHITECTURAL LEGEND

- Grid Lines
- Detail Bubble
- Building Section
- Wall Type
- Window Type
- Door Symbol
- Datum Point, Elevation
- Revision, with Cloud
- Demolition
- Centerline, For Dimensioning
- Property Line

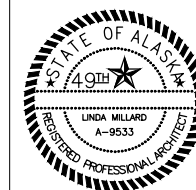


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Cover Sheet

Kasaan Covered Play Area

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Kasaan, Alaska 99919



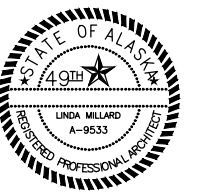
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A1.0 Site Plan

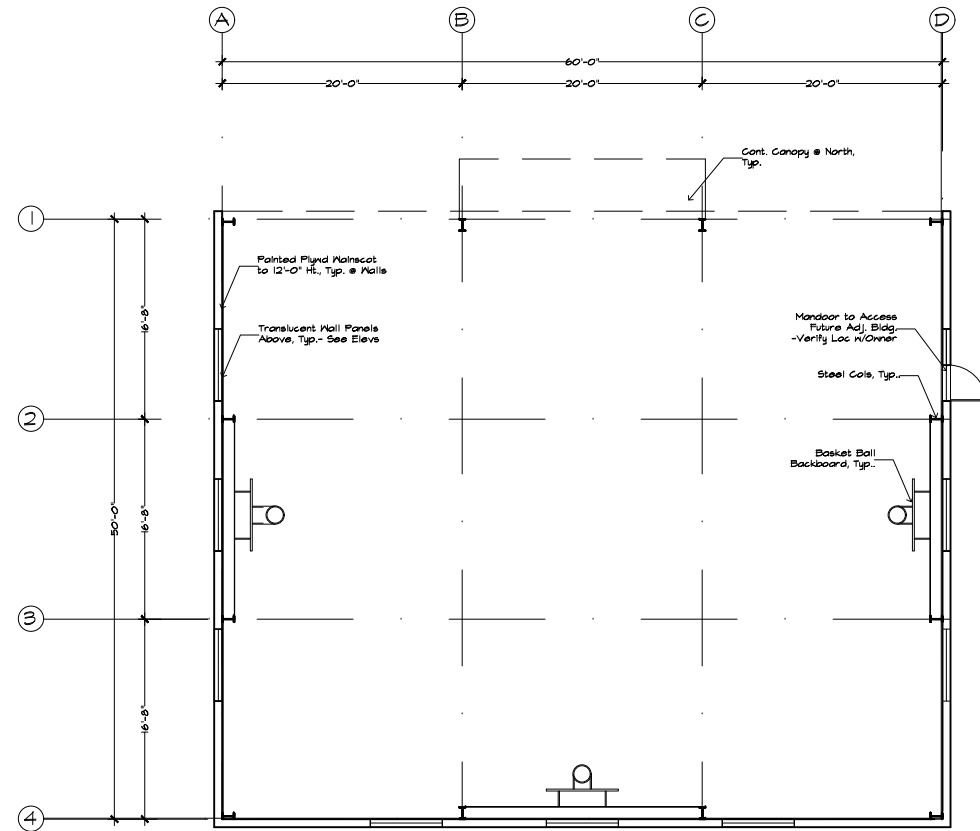


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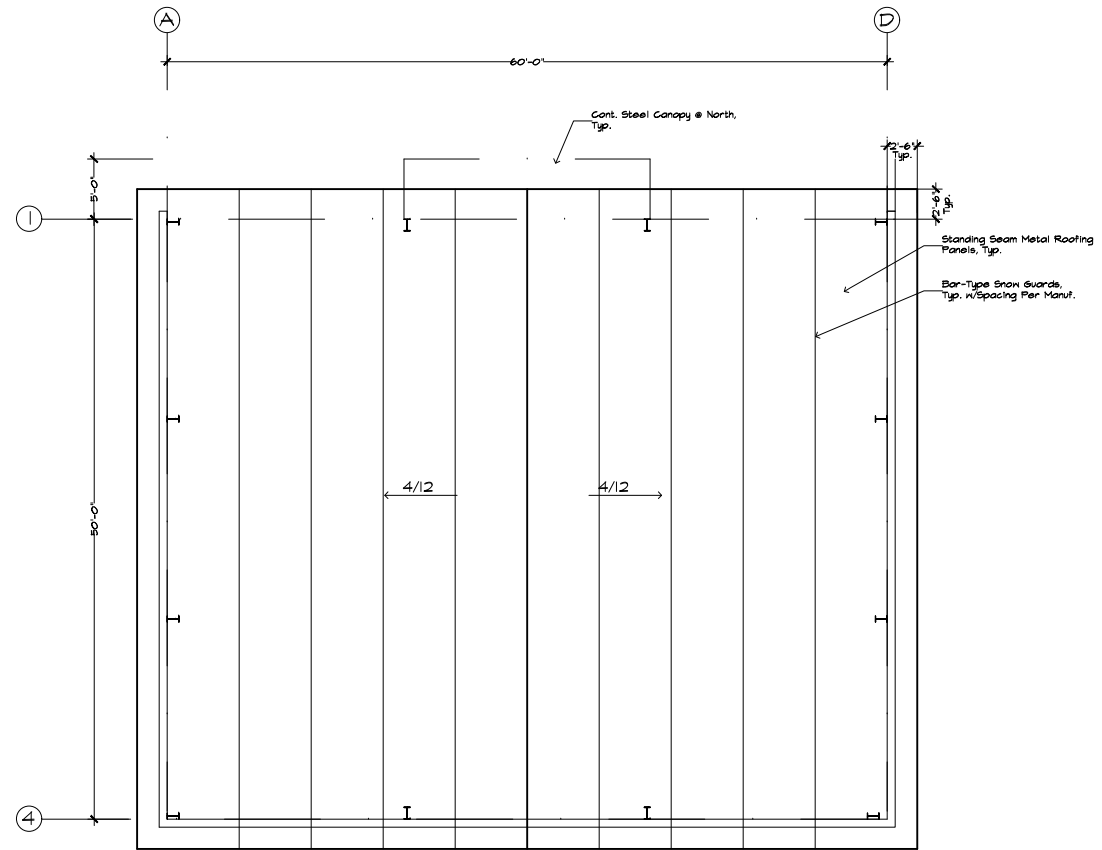
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1 Floor Plan
1/16"=1'-0"
0' 4' 8' 16'



2 Roof Plan
1/16"=1'-0"
0' 4' 8' 16'

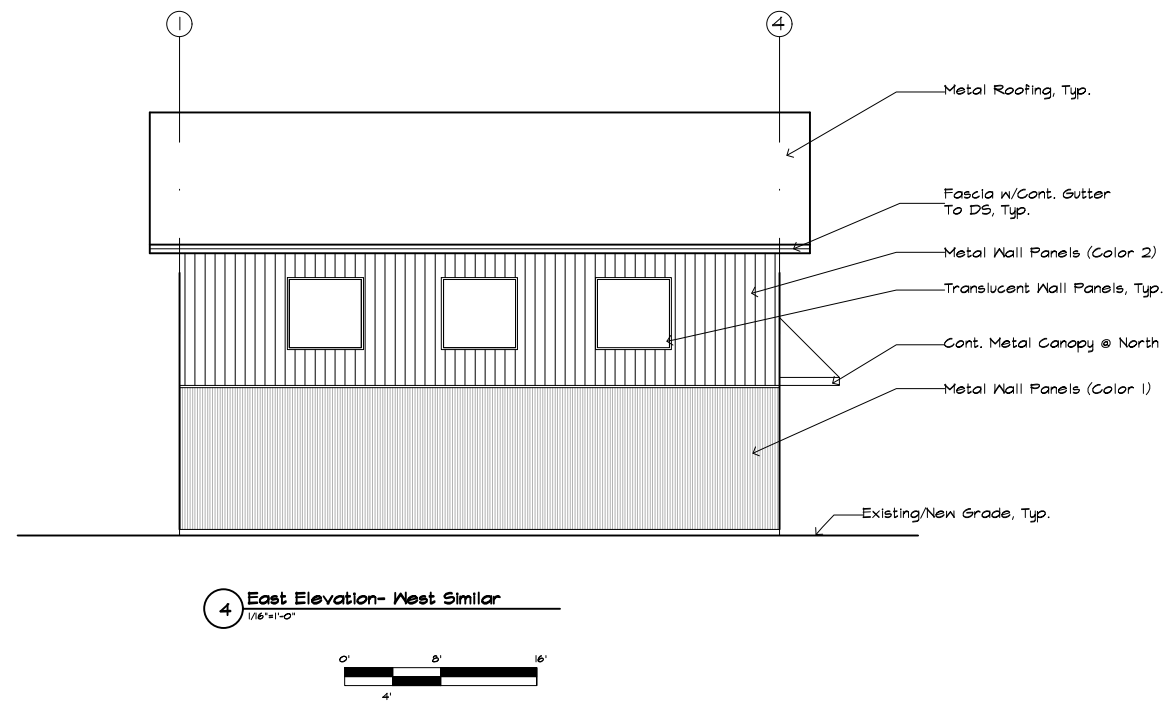
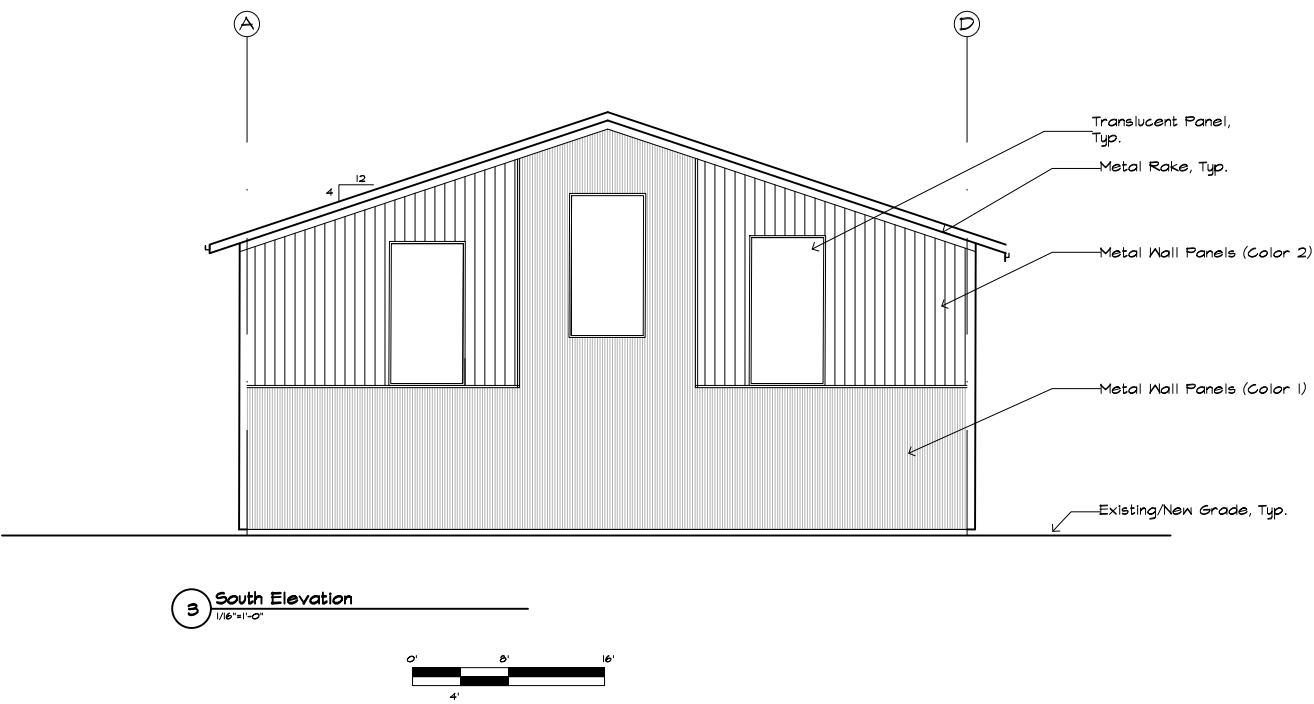
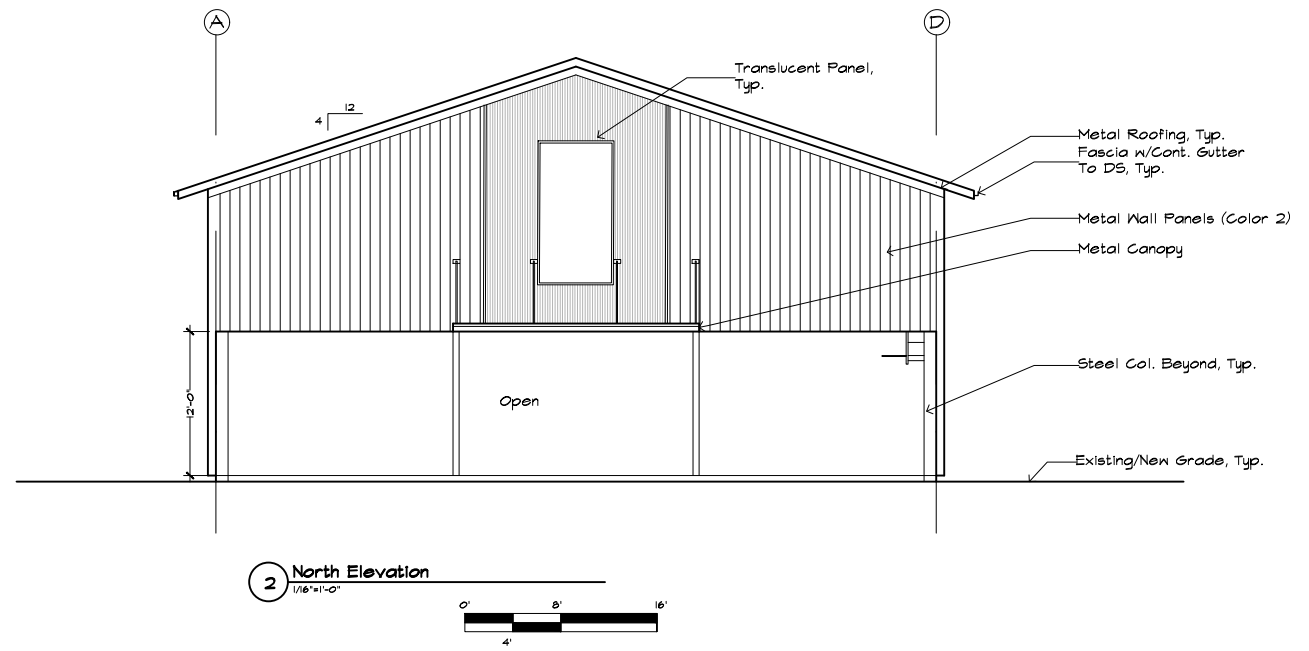
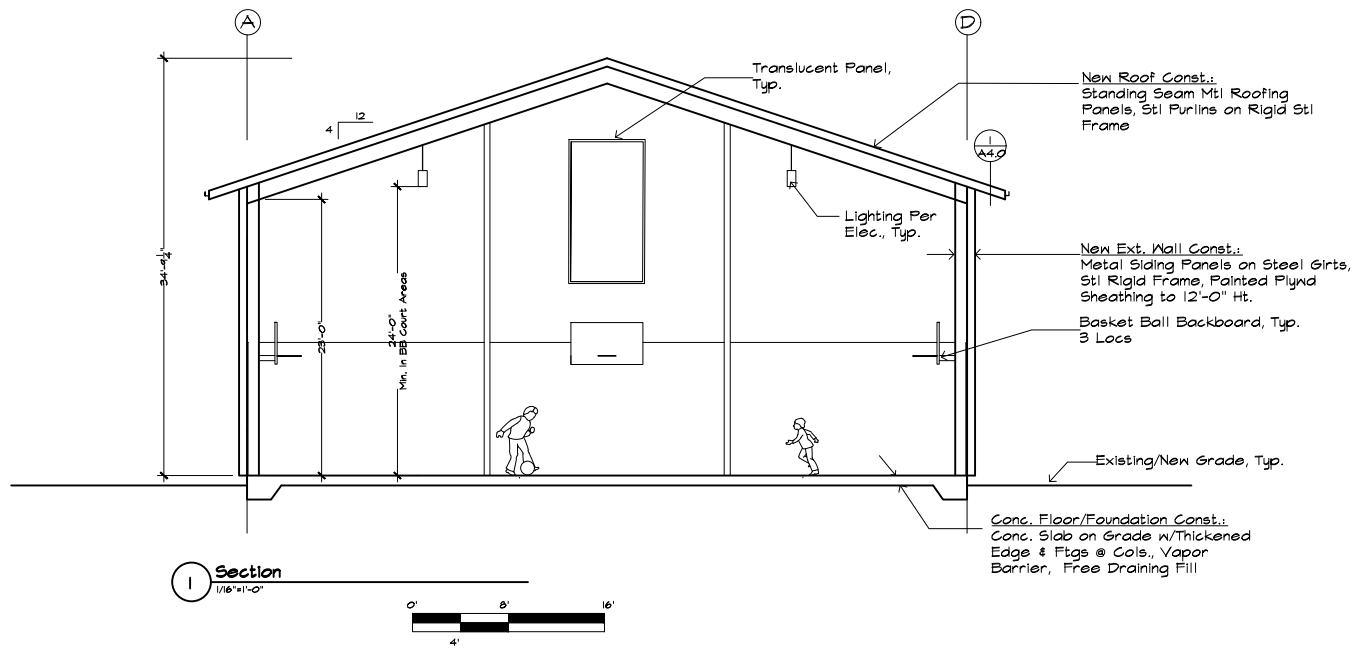


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GENERAL NOTES

CRITERIA

CODE: 2012 EDITION OF INTERNATIONAL BUILDING CODE (IBC) AS AMENDED BY THE STATE OF ALASKA

STRUCTURAL RISK CATEGORY: II

LOADS:

SNOW

GROUND SNOW LOAD, $P_g = 45$ PSF
IMPORTANCE $I = 1.0$
EXPOSURE COEFFICIENT: $C_e = 0.8$, EXPOSURE D, FULLY EXPOSED
THERMAL COEFFICIENT: $C_t = 1.2$
FLAT ROOF SNOW: 30 PSF

WIND LOADS:

ULTIMATE WIND SPEED: 143 MPH
EXPOSURE: D

SEISMIC LOADS

SITE CLASS: D FIRM SOIL
 $S_s = 0.32g$, $F_a = 1.54$, $S_d_s = 0.33g$
 $S_1 = 0.28g$, $F_v = 1.84$, $S_d_1 = 0.35g$
DESIGN CATEGORY D
IMPORTANCE, $I_e = 1.0$
 $R = 3.25$ ORDINARY STEEL CONCENTRICALLY BRACED FRAMES;
 $C_s = 0.10g$

FOUNDATION:

FOUNDATION IS DESIGNED FOR A MAXIMUM ALLOWABLE BEARING PRESSURE OF 2,000 PSF, BASED UPON THE ANTICIPATION OF ENCOUNTERING AT THE LIMIT OF EXCAVATION TYPE 4 SOILS (SILT, SILTY SAND, CLAYEY SAND, SILTY GRAVEL AND CLAYEY GRAVEL) AS DEFINED IN TABLE 1806.2 OF THE INTERNATIONAL BUILDING CODE. IF DEBRIS, SOFT MATERIAL, MUCK, TRASH ORGANIC MATERIAL OR OTHER UNDESIRABLE MATERIALS ARE ENCOUNTERED, THE ENGINEER SHOULD BE NOTIFIED AND ASKED FOR DIRECTION.

MATERIALS AND CONSTRUCTION

BASE COURSE

BASE COURSE SHALL BE WELL-GRADED SANDS AND GRAVELS AND MEET THE REQUIREMENTS OF C1 OR D1 GRADING, AGGREGATE BASE COURSE PER THE ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES STANDARD SPECIFICATIONS FOR HIGH WAY CONSTRUCTION, SECTION 703. PLACE BASE COURSE IN LIFTS NO GREATER THAN 6 INCHES IN LOOSE THICKNESS AND COMPACT WITH A MINIMUM LEVEL OF EFFORT OF 6 PASSES WITH A WALK-BEHIND VIBRATORY PLATE COMPACTOR WITH A MINIMUM RATED FORCE LEVEL OF 14,000 POUNDS.

CONCRETE

MIXING, PLACING, AND CURING OF CONCRETE AND SELECTION OF MATERIALS SHALL BE IN ACCORDANCE WITH THE IBC. PROPORTIONS OF AGGREGATE, CEMENT AND WATER SHALL BE SUCH TO RESULT IN A DENSE WORKABLE MIX WHICH CAN BE PLACED WITHOUT EXCESS SURFACE WATER. A MIX DESIGN, WITH RECORDED CYLINDER TEST RESULTS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL PRIOR TO MOBILIZING CONCRETE EQUIPMENT TO THE SITE. MAXIMUM SLUMP SHALL BE 4 INCHES PRIOR TO ADDING PLASTICISERS OR WATER REDUCERS ON SITE. 28 DAY COMPRESSIVE STRENGTH (f_c') SHALL BE 4,000 PSI. CONCRETE SHALL BE ENTRAINED WITH AIR SO THAT AIR CONTENT WILL BE BETWEEN 5 AND 8 PERCENT.

CONCRETE REINFORCING SHALL COMPLY WITH ASTM A615 GRADE 60. LAP REINFORCING STEEL 50 BAR DIAMETERS UNLESS OTHERWISE NOTED. REINFORCING STEEL FABRICATION DRAWINGS SHALL BE PREPARED BY AN EXPERIENCED DETAILER CONFORMING TO STANDARD PRACTICE AS OUTLINED IN ACI 315. SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO STARTING FABRICATION. REINFORCING SHALL BE SUPPORTED AND SECURED IN PLACE PRIOR TO CONCRETE PLACEMENT USING WELL-CURED CONCRETE BLOCKS OR APPROVED STEEL CHAIRS. WELDING OF REINFORCING IS PROHIBITED UNLESS SPECIFICALLY NOTED.

PROVIDE MINIMUM COVER AT REINFORCING BARS AS FOLLOWS: CAST AGAINST EARTH 3 INCHES, EXPOSED TO EARTH OR WEATHER 2 INCHES AND SLABS ON GRADE 1.5 INCHES.

AT CORNERS EXTEND HORIZONTAL BARS WITH A 90 DEGREE HOOK WITH 48 BAR DIAMETER LENGTH OR PROVIDE CORNER BARS WITH SAME SIZE AND SPACING WITH 48 BAR DIAMETER LEG LENGTH EACH LEG.

SEAL SLABS ON GRADE WITH A LIQUID PENETRATING SILOXANE OR SILANE SEALER, ASHFORD FORMULA, OR APPROVED EQUAL.

STEEL ANCHOR BOLTS

STEEL ANCHOR BOLTS SHALL CONFORM TO THE FOLLOWING:

ANCHOR BOLTS ASTM A307 OR F1554 GRADE 36, GALVANIZED PER ASTM A153

ABBREVIATIONS

ACI	AMERICAN CONCRETE INSTITUTE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
(E)	EXISTING
EXIST	EXISTING
EW	EACH WAY
g	ACCELERATION DUE TO GRAVITY
MAX	MAXIMUM
MIN	MINIMUM
MPH	MILES PER HOUR
NO	NUMBER
#	NUMBER
OC	ON CENTER
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
TYP	TYPICAL



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**PROCESSED
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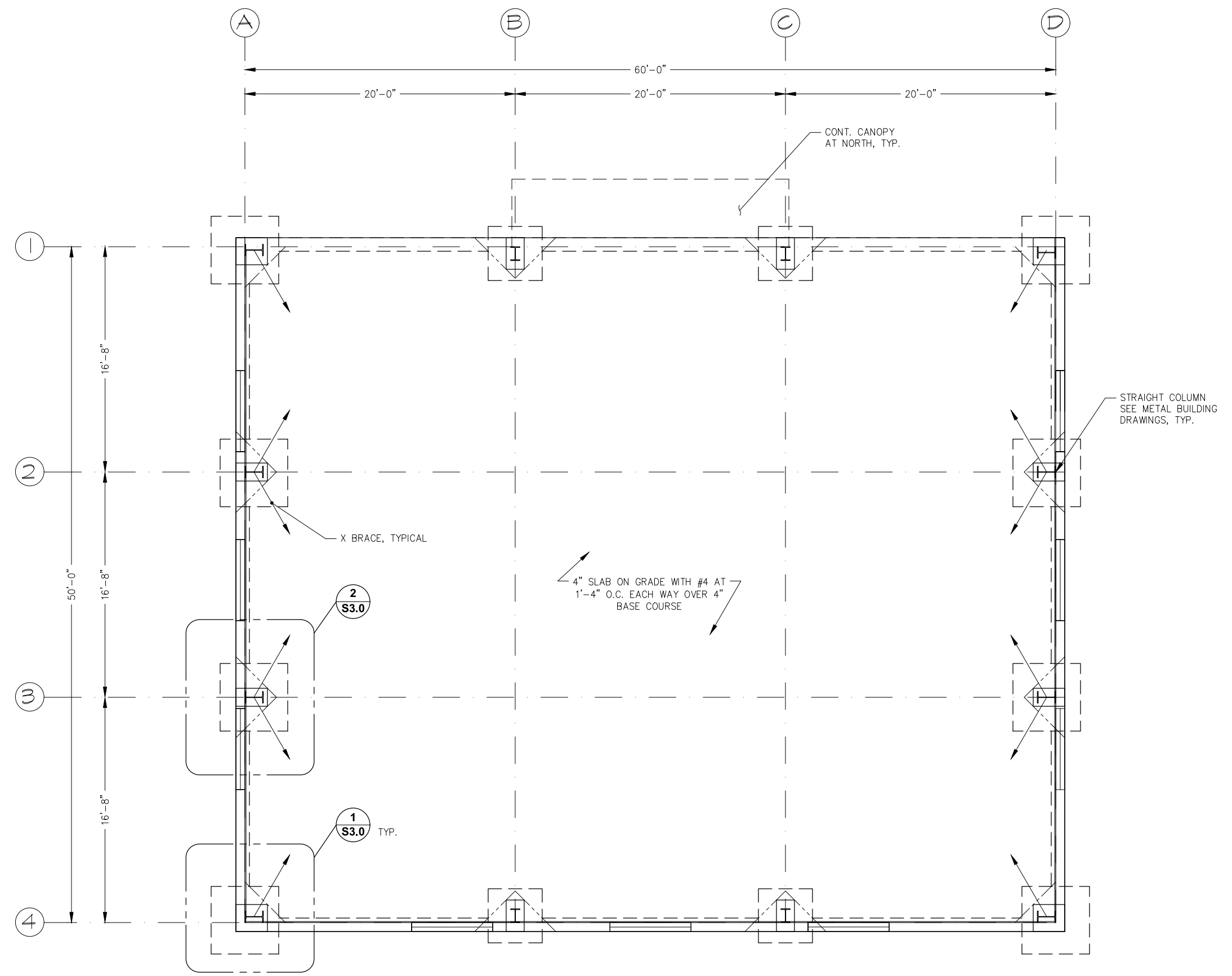
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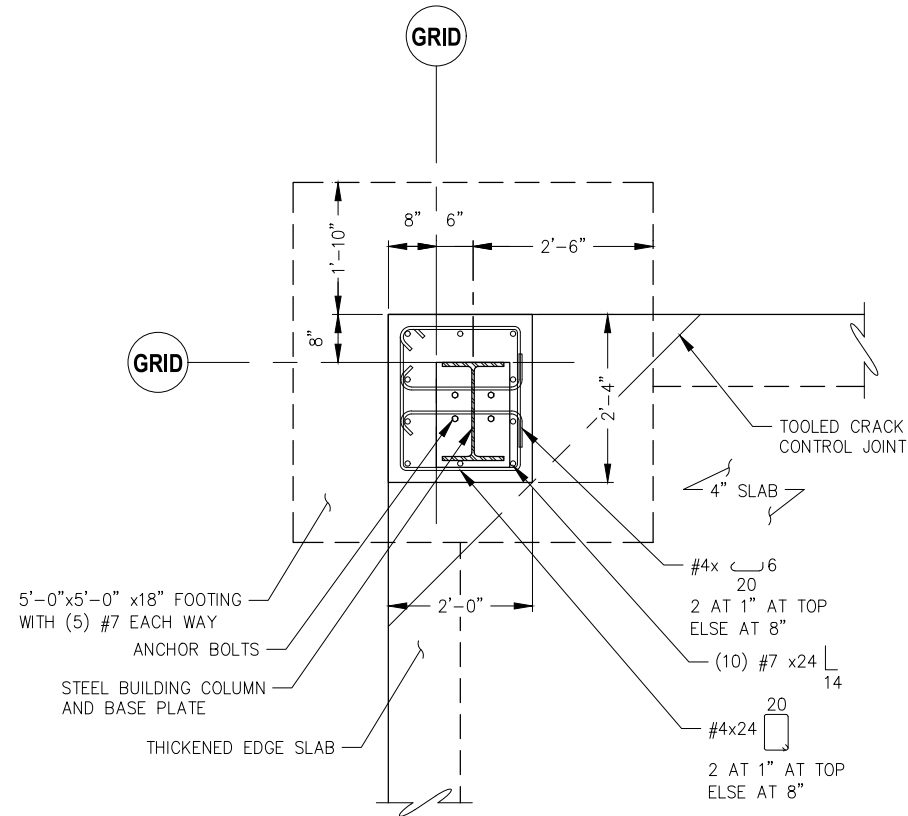
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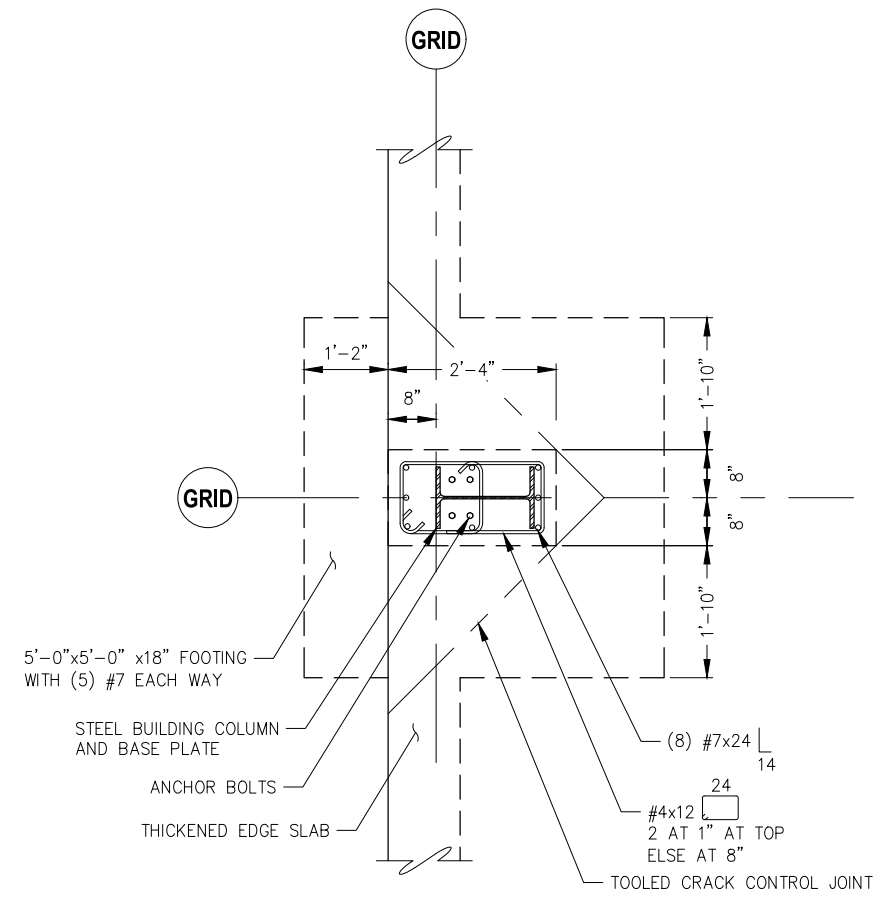
1 FOUNDATION PLAN SCALE IN FEET
 0 4 8 FT. PLAN NORTH

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1 CORNER COLUMN FOOTING SCALE IN FEET

0 1 2 3



2 SIDE WALL COLUMN SCALE IN FEET

0 1 2 3

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