

GENERAL STRUCTURAL NOTES

01100 GENERAL REQUIREMENTS

- MATERIALS AND WORKMANSHIP TO CONFORM WITH THE 2019 EDITION OF THE CALIFORNIA BUILDING CODE.
- DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, USE SIMILAR DETAILS OF CONSTRUCTION, SUBJECT TO REVIEW BY THE OWNER'S REPRESENTATIVE.
- DETAILS ON SHEETS TITLED "TYPICAL" OR DETAILS TITLED "TYPICAL" APPLY TO SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY REFERENCED. SUCH DETAILS ARE NOT NOTED AT EACH LOCATION THAT THEY OCCUR.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND FOR CHECKING DIMENSIONS. NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES AND RESOLVE BEFORE PROCEEDING WITH THE WORK.
- DO NOT SCALE THE DRAWINGS.
- PROVIDE MEASURES NECESSARY TO PROTECT THE SCULPTURE AND FOUNDATION DURING CONSTRUCTION.
- INFORMATION SHOWN ON THE DRAWINGS RELATED TO EXISTING CONDITIONS REPRESENTS THE PRESENT KNOWLEDGE, BUT WITHOUT GUARANTEE OF ACCURACY. REPORT CONDITIONS THAT CONFLICT WITH THE CONTRACT DOCUMENTS TO THE OWNER'S REPRESENTATIVE. DO NOT DEVIATE FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN DIRECTION FROM THE OWNER'S REPRESENTATIVE.
- CONTRACTOR SHALL REMOVE ALL CONSTRUCTION DEBRIS FROM THE SITE AND DISPOSE OFF SITE.
- VERIFY ALL DIMENSIONS IN THE FIELD. NOTIFY ENGINEER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK.
- ALL EXISTING HAZARDOUS MATERIALS SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH LOCAL AND STATE CODES. NO NEW OR EXISTING CONSTRUCTION SHALL CONTAIN HAZARDOUS OR PROHIBITED MATERIALS.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT AREAS ADJACENT TO NEW CONSTRUCTION FROM NOISE, DEBRIS AND DUST THROUGHOUT THE PERFORMANCE OF THE CONTRACT.
- ANY DAMAGE TO EXISTING UTILITIES OR FACILITIES SHALL BE REPAIRED OR REPLACED AT CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE OWNER.
- CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF PERSONS AND PROPERTY AND FOR ALL NECESSARY INDEPENDENT ENGINEERING REVIEWS OF THESE CONDITIONS.
- CONTRACTOR SHALL MAINTAIN THE STREETS AND ANY OTHER PUBLIC RIGHTS-OF-WAY IN A CLEAN, SAFE AND USABLE CONDITION. ANY SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS MUST BE REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT.
- THE ENGINEER-OF-RECORD SHALL PERFORM STRUCTURAL OBSERVATIONS PER CBC 1704. THE ENGINEER SHALL REPORT ANY OBSERVED DEFICIENCIES TO THE OWNER, CONTRACTOR AND BUILDING OFFICIAL, AND SUBMIT A FINAL SUMMARY REPORT STATING SITE VISITS HAVE BEEN MADE, NOTING ANY DEFICIENCIES, THAT CORRECTIVE WORK HAS BEEN COMPLETED, AND THAT CONSTRUCTION PROCEEDED IN GENERAL CONFORMANCE WITH THE APPROVED PLANS.
- THE CONTRACTOR SHALL GIVE 48 HOURS NOTICE TO THE ENGINEER PRIOR TO ALL REQUIRED TESTING AND OBSERVATIONS U.O.N. CONTRACTOR SHALL CALL ENGINEER FOR OBSERVATION OF ALL FOUNDATION STEEL. EXCAVATIONS AND ANCHOR BOLT PLACEMENT PRIOR TO PLACING CONCRETE. THE CONTRACTOR SHALL CALL ENGINEER TO OBSERVE ALL STRUCTURAL MEMBERS AND CONNECTIONS FOR CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS PRIOR TO CONCEALMENT WITH FINISH MATERIALS.

01400 SPECIAL INSPECTIONS

- AN INDEPENDENT TESTING AGENCY AND SPECIAL INSPECTOR SHALL BE RETAINED BY THE CONTRACTOR TO PERFORM TESTS AND INSPECTIONS.
- THE FOLLOWING ITEMS REQUIRE TESTS AND INSPECTIONS IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 17 - "STRUCTURAL TESTS AND INSPECTIONS" OF THE 2019 CALIFORNIA BUILDING CODE:
 - PLACING OF REINFORCING AND CONCRETE ANCHORS
 - CONCRETE PLACEMENT, TAKING OF TEST SPECIMENS, VERIFICATION OF CONCRETE STRENGTH
 - SINGLE PASS FILLET WELDS $\frac{3}{8}$ " OR LESS - PERIODIC VISUAL INSPECTION
 - ALL OTHER WELDS - CONTINUOUS VISUAL INSPECTION
- IF INITIAL TESTS OR INSPECTIONS MADE BY THE OWNER'S TESTING AGENCY REVEAL THAT ANY PORTION OF THE WORK DOES NOT COMPLY WITH THE CONTRACT DOCUMENTS, ADDITIONAL TESTS, INSPECTIONS, AND NECESSARY REPAIRS WILL BE MADE AT THE CONTRACTOR'S EXPENSE.

02200 FOUNDATION AND SITE WORK

- LOCATE AND PROTECT EXISTING UTILITIES TO REMAIN DURING AND/OR AFTER CONSTRUCTION.
- REMOVE LOOSE SOIL AND STANDING WATER FROM FOUNDATION EXCAVATIONS PRIOR TO PLACING CONCRETE.
- FOUNDATION EXCAVATIONS TO BE CUT NEAT TO THE SIZE SHOWN ON DRAWINGS AND CONCRETE TO BE PLACED ON UNDISTURBED NATIVE SOILS. IF EXCAVATIONS ARE OVERCUT, BACKFILL WITH ENGINEERED FILL AND COMPACT TO 95% RELATIVE COMPACTION.
- THE GEOTECHNICAL REPORT PREPARED BY LANGAN DATED 24 NOVEMBER 2020 IS AVAILABLE IN THE OFFICE OF THE ARCHITECT FOR THE CONTRACTOR'S REVIEW. THE CONTRACTOR SHALL CONFORM TO THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT. OBTAIN GEOTECHNICAL ENGINEER'S APPROVAL OF FOUNDATION EXCAVATIONS PRIOR TO PLACING CONCRETE. ALL DETERMINATIONS OF THE ACCEPTABILITY OF SOIL CONDITIONS SHALL BE BY GEOTECHNICAL ENGINEER. THE GEOTECHNICAL ENGINEER SHALL BE PRESENT AT THE SITE FOR DRILLING OF ALL PIERS AND OBSERVATION OF EXCAVATION BEFORE PLACING ANY FILL MATERIAL OR CONCRETE.
- THE GEOTECHNICAL ASPECTS OF THE CONSTRUCTION, INCLUDING SITE GRADING, FOOTING EXCAVATIONS AND PREPARATION OF SUBGRADE SHOULD BE PERFORMED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT. LANGAN SHOULD BE PROVIDED AT LEAST 48 HOURS ADVANCE NOTIFICATION (415-955-5200) OF ANY EARTHWORK OPERATIONS AND SHOULD BE PRESENT TO OBSERVE AND TEST, AS NECESSARY, THE EARTHWORK AND FOUNDATION INSTALLATION PHASES OF THE PROJECT.

03100 FORMWORK

- PROVIDE POUR POCKETS IN FORMS AS REQUIRED TO PREVENT AIR POCKETS AND/OR "HONEYCOMB" UNDER OR AROUND THE FOUNDATION.
- PROVIDE CURING WHERE FORMS ARE REMOVED IN LESS THAN 7 DAYS.

03200 REINFORCING STEEL

- REINFORCING TO CONFORM TO THE FOLLOWING, UNLESS OTHERWISE NOTED: REINFORCING STEEL #7 AND SMALLER ASTM A615, 60 KSI, REINFORCING STEEL #8 AND LARGER AND REINFORCING STEEL TO BE WELDED ASTM A706, 60 KSI.
- ACCURATELY POSITION, SUPPORT, AND SECURE REINFORCEMENT FROM DISPLACING DUE TO FORMWORK, CONSTRUCTION, OR CONCRETE PLACEMENT OPERATIONS. LOCATE AND SUPPORT REINFORCING BY METAL CHAIRS, RUNNERS, BOLSTERS, SPACERS, AND HANGERS AT A MAXIMUM 3-FOOT SPACING.

03300 CAST-IN-PLACE CONCRETE

- ROUGHEN CONCRETE SURFACES OF CONSTRUCTION JOINTS TO 1/4 INCH AMPLITUDE AND CLEAN OF LAITANCE, FOREIGN MATTER, AND LOOSE PARTICLES.
- AT LOCATIONS WHERE CONCRETE IS CAST AGAINST EXISTING CONCRETE, ROUGHEN CONTACT SURFACES TO 1/4 INCH AMPLITUDE AND CLEAN OF LAITANCE, FOREIGN MATTER, AND LOOSE PARTICLES.
- ALL CONCRETE TO HAVE THE FOLLOWING PROPERTIES: NORMAL WEIGHT CONCRETE WITH A 28-DAY STRENGTH OF 4,000 PSI.
- CAST-IN-PLACE ANCHORS: THREADED ANCHORS SHALL BE ASTM F1554, GRADE 105 KSI HEAVY HEX HEAD. NUTS SHALL BE ASTM A 563 GRADE DH HEAVY HEX NUTS AND WASHERS SHALL BE ASTM F 436. ANCHORS, NUTS AND WASHERS SHALL BE GALVANIZED.
- BASE PLATES: BEARING PLATES SHALL BE CLEAN AND FREE FROM BOND-REDUCING MATERIALS. TIGHTEN ANCHOR BOLTS AFTER THE SUPPORTED MEMBERS HAVE BEEN POSITIONED AND PLUMBED. PACK NON-SHRINK GROUT SOLIDLY BETWEEN BEARING SURFACES AND BASES OR PLATES TO ASSURE THAT NO VOIDS REMAIN. NON-SHRINK GROUT SHALL MEET ASTM C-1107.

05000 STRUCTURAL STEEL

- STRUCTURAL STEEL, FABRICATION AND ERECTION METHODS SHALL CONFORM TO THE CURRENT ADDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES."
- ALL STEEL SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION AND INSTALLATION.
- ALL STRUCTURAL STEEL SHALL BE PRIMED.
- STEEL SHALL BE THE FOLLOWING:
 - ROLLED PLATES AND BARS - ASTM A572, Fy = 50 KSI
 - ANGLES AND CHANNELS - ASTM A36
 - HSS RECTANGULAR SECTIONS - ASTM A500, GRADE C (50 KSI)
 - HSS ROUND SECTION - ASTM A500, GRADE C (50 KSI)
- ALL BOLTS SHALL BE A325N
- ALL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1. ELECTRODES SHALL BE E70X.

17000 DESIGN CRITERIA

- DESIGN PER 2022 CALIFORNIA BUILDING CODE
- DEAD LOADS ASSUMPTION, FINAL WT TBD:
 - MAMA: 6,500 lbs
 - CUB: 3,200 lbs
 THESE ARE WEIGHTS OF THE BEAR SCULPTURE AND INTERNAL STRUCTURE ONLY. THESE WEIGHTS DO NOT INCLUDE THE FOUNDATION WEIGHT OR SOIL ABOVE THE FOUNDATION.
 - LIVE LOADS: 200 LB LATERAL LOAD AT 42" ABOVE FINISHED GRADE
 - SEISMIC DESIGN: SITE CLASS F
 - BASE SHEAR $V = 0.96 W$ (ULTIMATE STRENGTH DESIGN), $R = 1.25$, $S_s = 1.5$, $S_{vs} = 1.8$, $S_{DS} = 1.2$
 - WIND DESIGN: RISK CATEGORY II,
 - $V_{ULT} = 100$ MPH (3 SECOND GUST)
 - $V_{ASD} = 85$ MPH
 - EXPOSURE B
 - $G_{CF} = +/- 0.18$

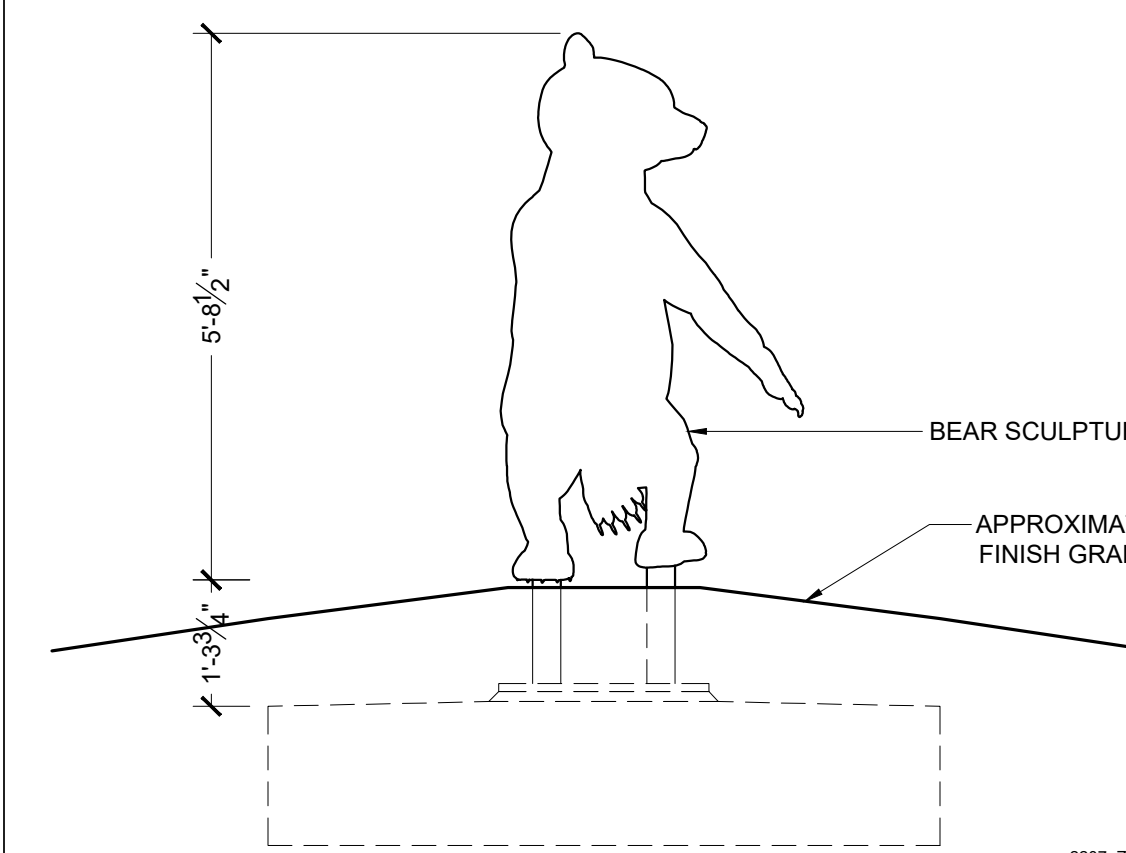
DRAWING INDEX

ARCHITECTURAL DRAWINGS

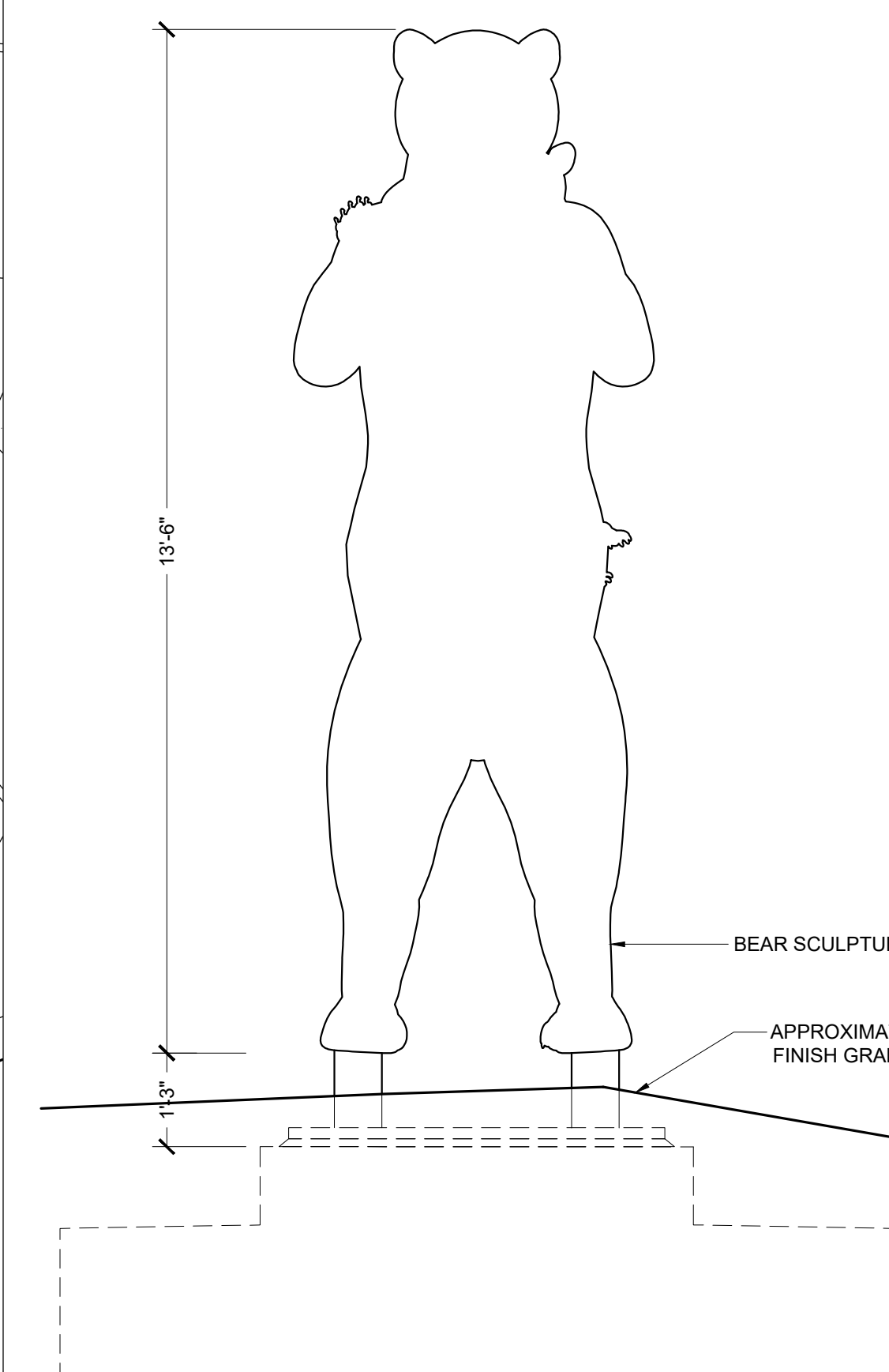
S0.1	GENERAL NOTES
S1.1	FOUNDATION DETAILS
S1.2	FOUNDATION DETAILS
S1.3	STRUCTURAL DETAILS



ARCHITECT:
ADBC Architecture Inc.
460 Mandana Blvd
Oakland, CA 94610
Contact:
adriana@daringacorotis.com
510 333 2714



7 FREESTANDING CUB ELEVATION
scale: 1/4" = 1'-0"



5 MAMA BEAR ELEVATION
scale: 1/4" = 1'-0"

A.A.	ADHESIVE ANCHOR
A.B.	ANCHOR BOLT
ALT.	ALTERNATE
BLKG	BLOCKING
B.N.	BOUNDARY NAILING
BTW.	BETWEEN
CONC.	CONCRETE
CONN.	CONNECTION
CONT.	CONTINUOUS
DBL.	DOUBLE
DIA.	DIAMETER
(E)	EXISTING
EA.	EACH
E.F.	EACH FACE
E.N.	EDGE NAILING
E.W.	EACH WAY
EXT.	EXTERIOR
F.O.S.	FACE OF STUDS
FLR.	FLOOR
FND.	FOUNDATION
FTG.	FOOTING
HK.	HOOK
HORIZ.	HORIZONTAL
HT.	HEIGHT
INT.	INTERIOR
MAX.	MAXIMUM
MIN.	MINIMUM
(N)	NEW
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
OPNG.	OPENING
PL.	PLATE
PLYWD.	PLYWOOD
P.T.	PRESSURE TREATED
REINF.	REINFORCE. REINFORCEMENT
REQD.	REQUIRED
S.A.D.	SEE ARCHITECTURE DRAWINGS
SIM.	SIMILAR
S.O.G.	SLAB ON GRADE
STAG.	STAGGER, STAGGERED
STD.	STANDARD
S.W.	SHEARWALL
T&B.	TOP AND BOTTOM
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
VERT.	VERTICAL

ARTIST:
RIGO 23

PROJECT ADDRESS:
MISSION BAY PARK
P2 - P8

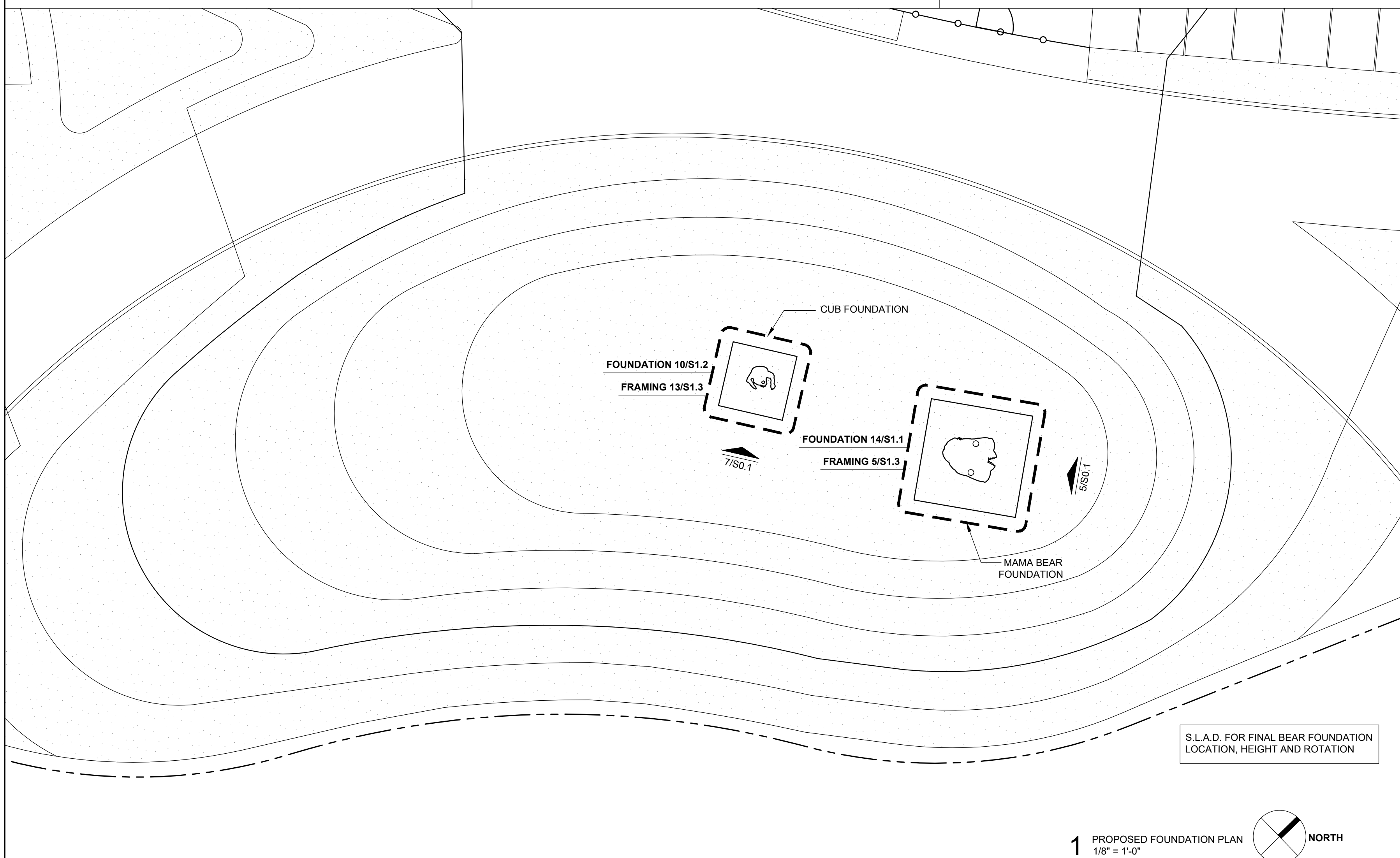
MISSION
CREEK
GRIZZLIES

rev.	issue	date
	CLIENT REVIEW	11/4/2022
	REVISIONS	11/30/2022
	CLIENT REVIEW	05/04/2023

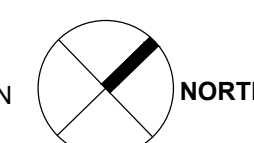
GENERAL NOTES
SITE PLAN

S0.1

sheet



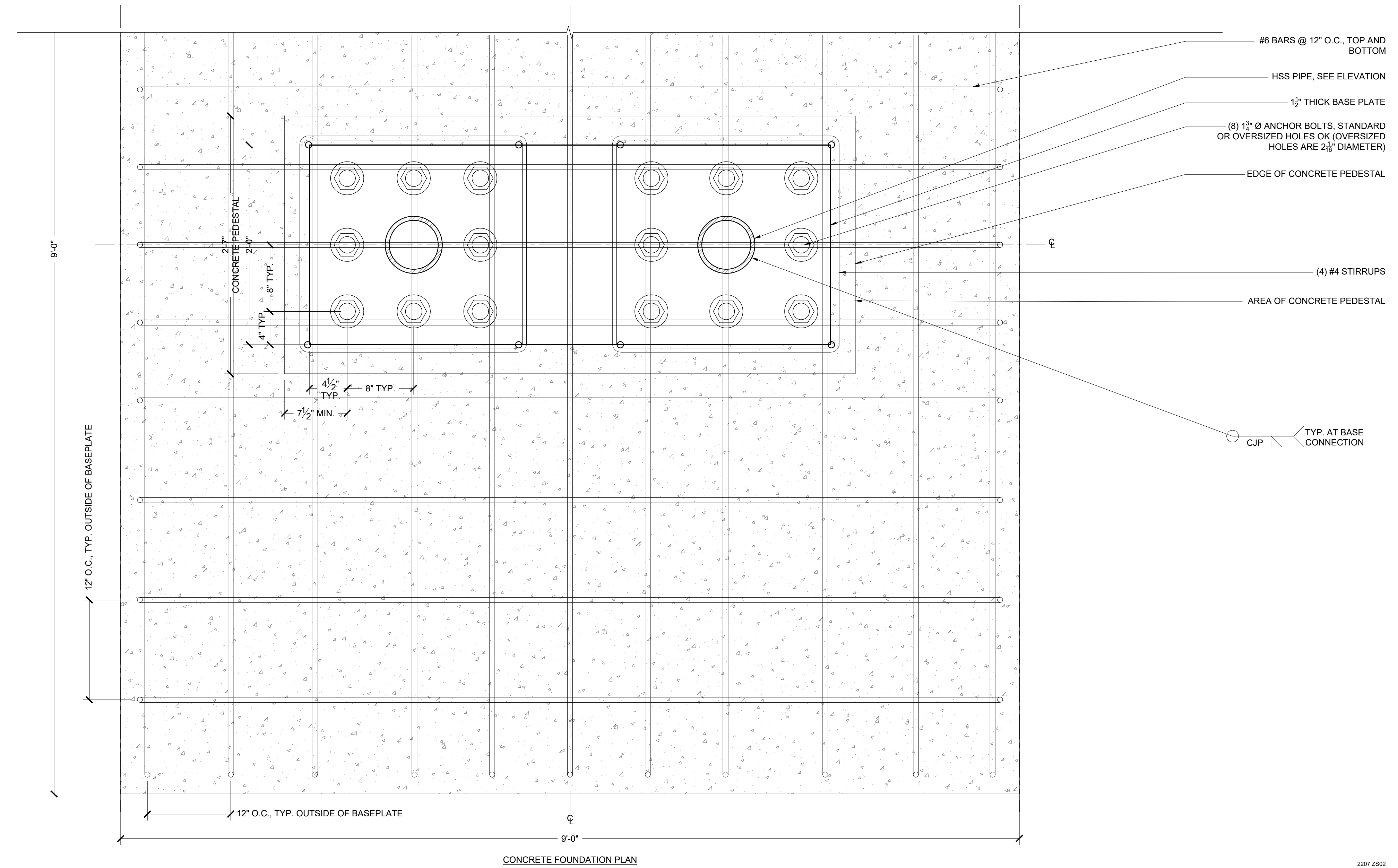
1 PROPOSED FOUNDATION PLAN
1/8" = 1'-0"



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ABBREVIATIONS

rev.	issue	date
	CLIENT REVIEW	11/4/2022
	CLIENT REVIEW	04/28/2023
	CLIENT REVIEW	05/04/2023

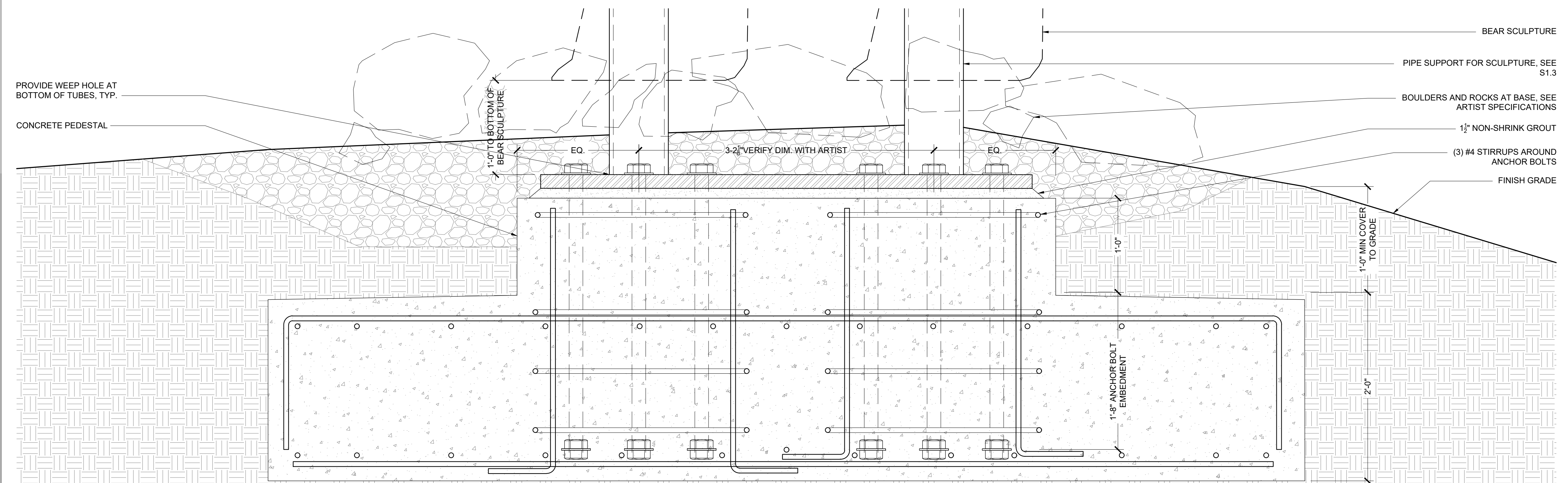


CONCRETE FOUNDATION PLAN

2207 Z302

14

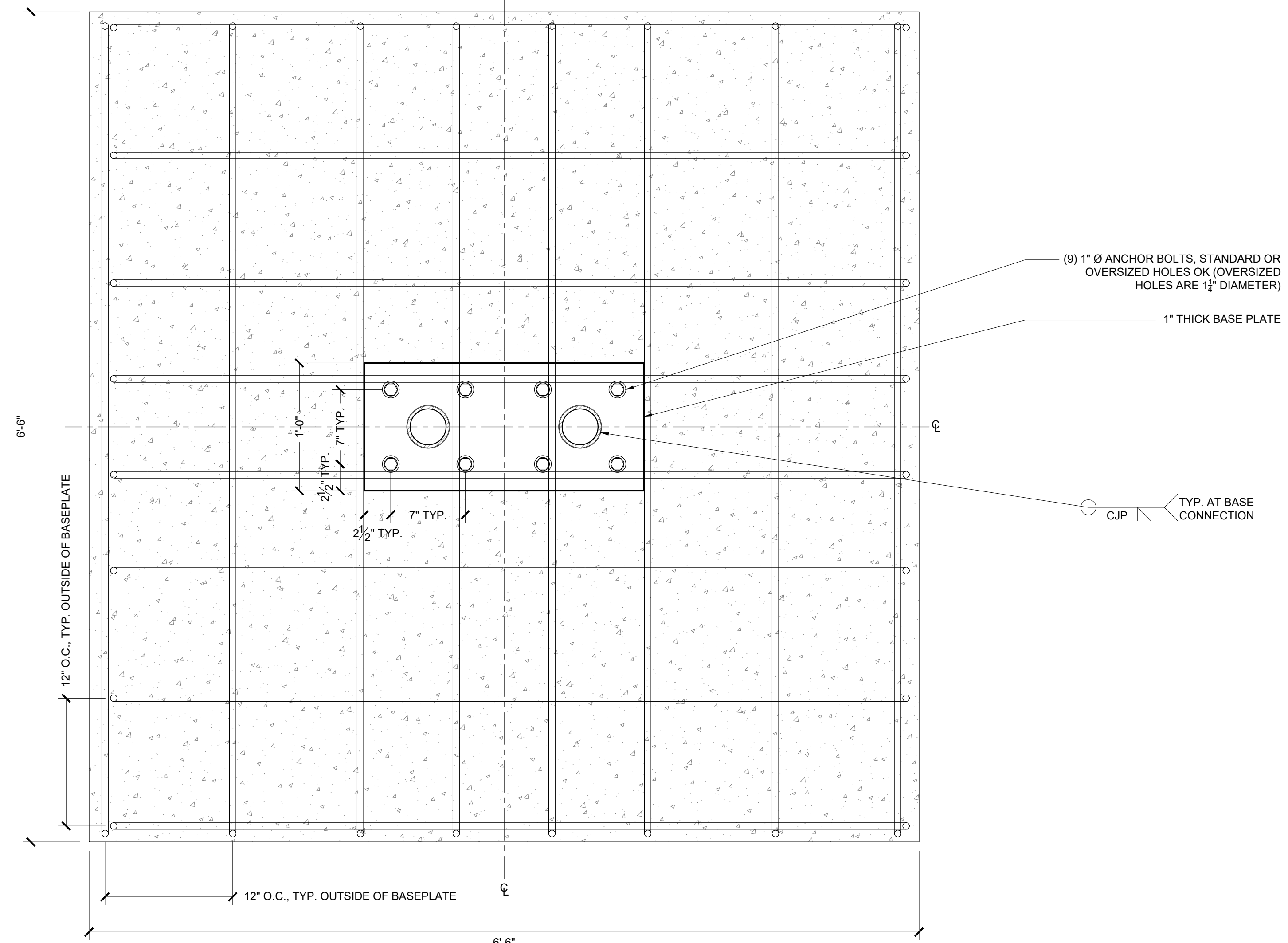
MAMA BEAR FOUNDATION AND BASE PLATE PLANS
scale: 1-1/2" = 1'-0"



MAMA BEAR FOUNDATION AND BASE PLATE SECTION
scale: 1-1/2" = 1'-0"

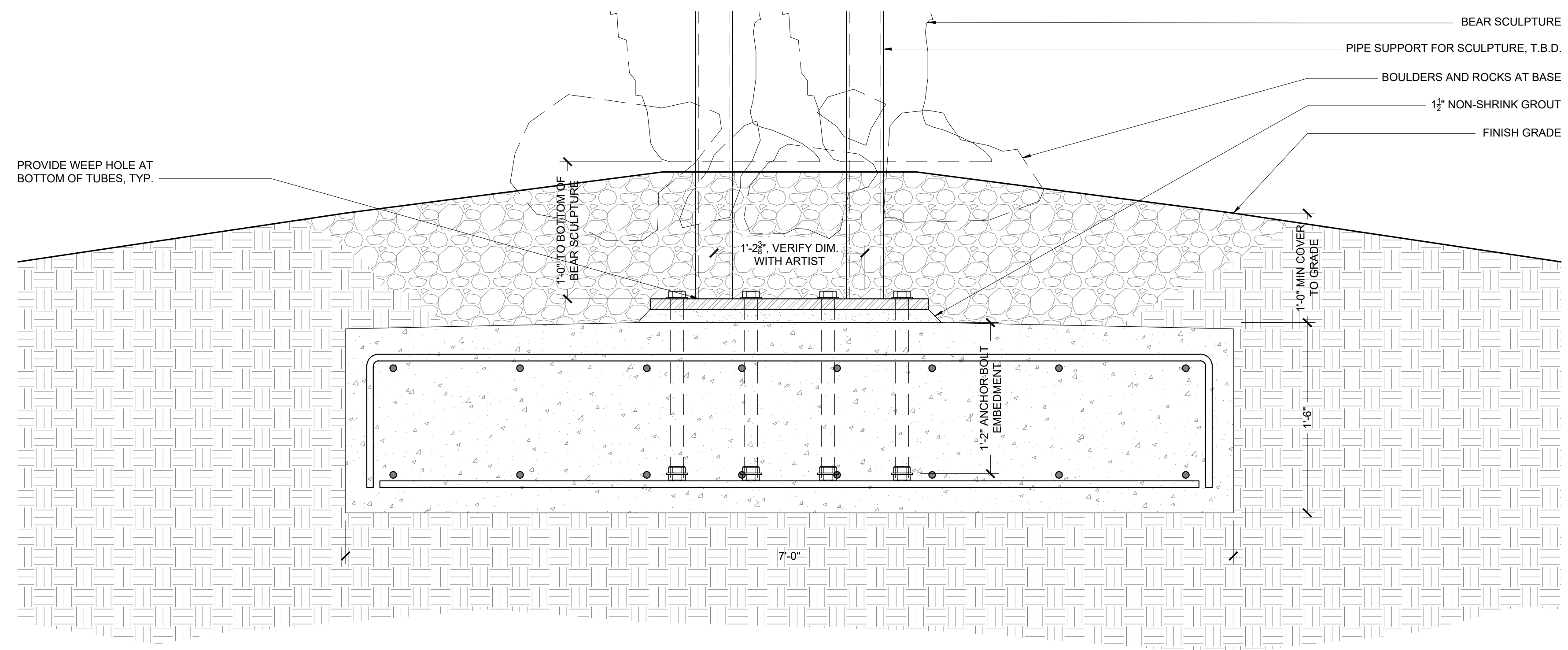
2207 Z301

13



2207 ZS04
FREESTANDING CUB FOUNDATION AND BASE PLATE PLANS
scale: 1-1/2" = 1'-0"

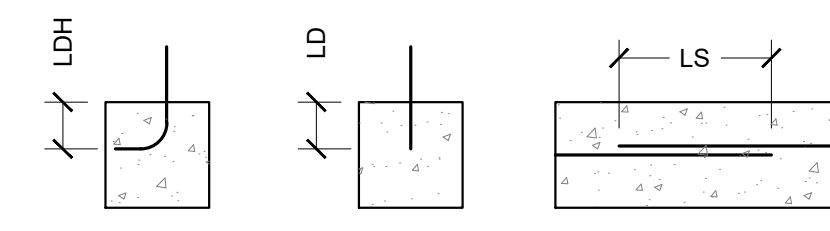
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2207 ZS03
FREESTANDING CUB FOUNDATION AND BASE PLATE SECTION
scale: 1-1/2" = 1'-0"

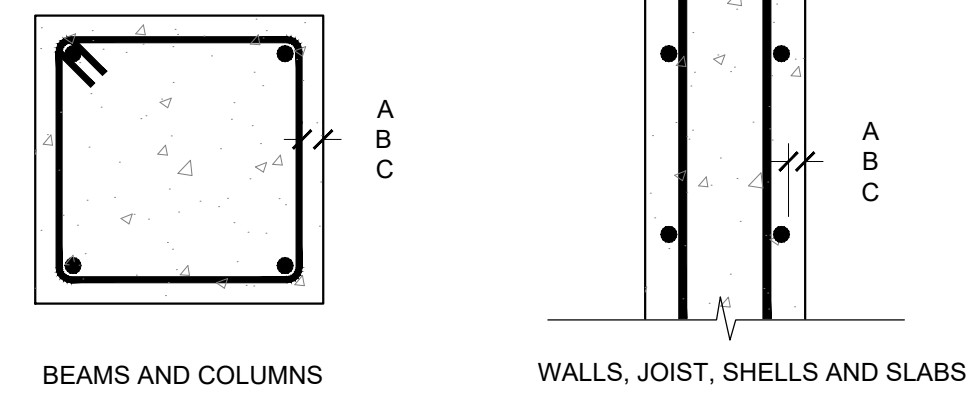
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BAR LOCATION	DEVELOPMENT AND LAP SPLICE LENGTHS, INCHES														
	BAR SIZE														
	#3		#4		#5		#6		#7						
LDH	LD	LS	LDH	LD	LS	LDH	LD	LS	LDH	LD	LS	LDH	LD	LS	
TOP BARS	9	16	20	12	19	24	15	23	30	18	28	37	21	46	60
OTHER BARS	9	12	16	12	14	19	15	18	23	18	22	28	21	36	46



NOTE:
1. MIN. CONC. COMPRESSIVE STRENGTH OF 2500 PSI
2. TOP BAR IS A HORIZONTAL BAR PLACED WITH MORE THAN 12" OF FRESH CONCRETE CAST IN THE MEMBER BELOW
3. WHERE SPLICING BARS OF DIFFERENT SIZES, USE SPLICE LENGTH OF LARGER BAR

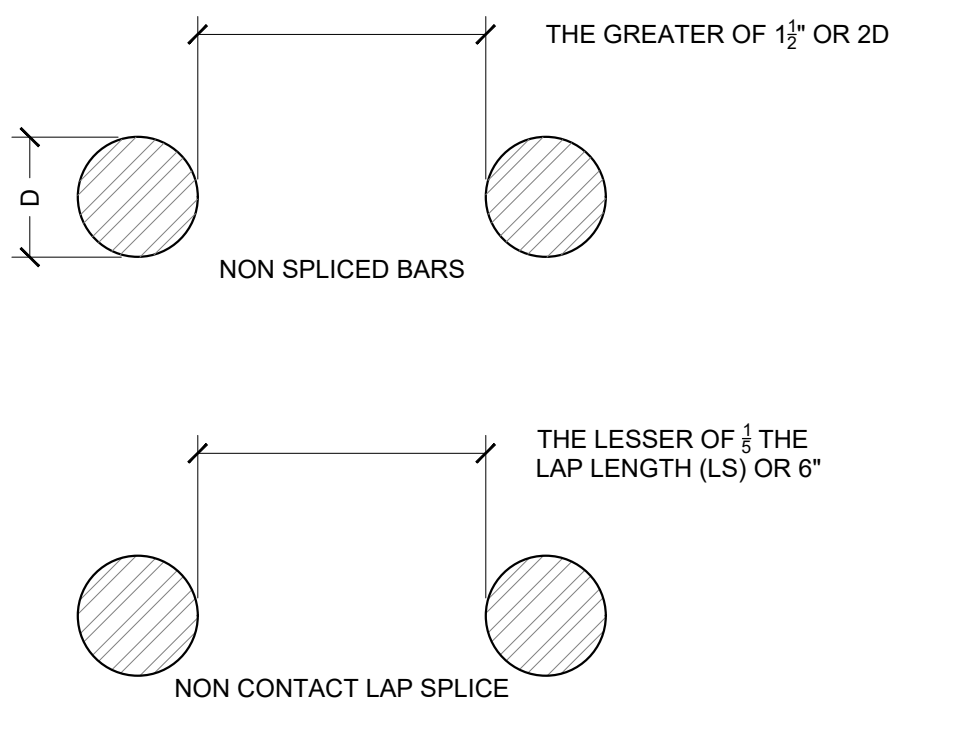
1504 Z CC003
16 DEVELOPMENT & LAP LENGTH
scale: n.t.s.



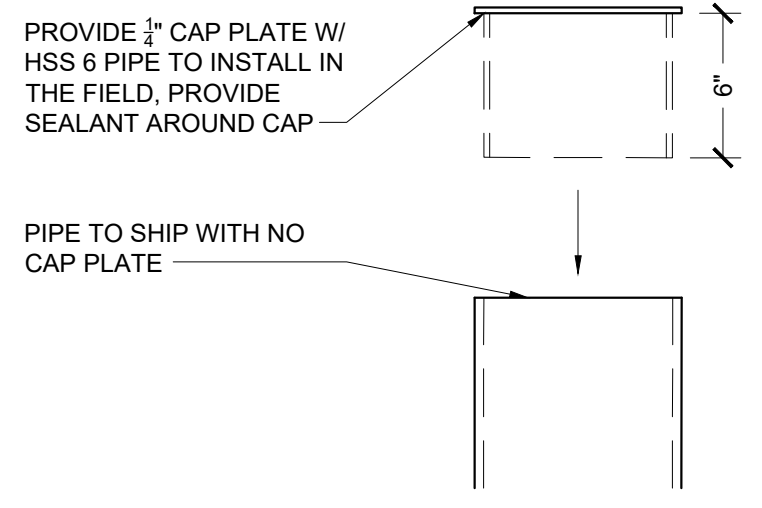
EXPOSURES:
A - CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH
B - BOARD FORMED AND EXPOSED TO EARTH OR WEATHER
C - BOARD FORMED AND NOT EXPOSED TO EARTH OR WEATHER

EXPOSURE	MINIMUM CLEAR COVER TO REINFORCEMENT		
	SLABS, WALLS AND JOISTS	BEAMS AND COLUMNS	SHELLS
A	3"	3"	3"
B	#6 - #18: 2" #3 - #5: 1 1/2"	#6 - #18: 2" #3 - #5: 1 1/2"	#6 - #18: 2" #3 - #5: 1 1/2"
C	1 1/2"	1 1/2"	#6 - #18: 3/4" #3 - #5: 3/8"

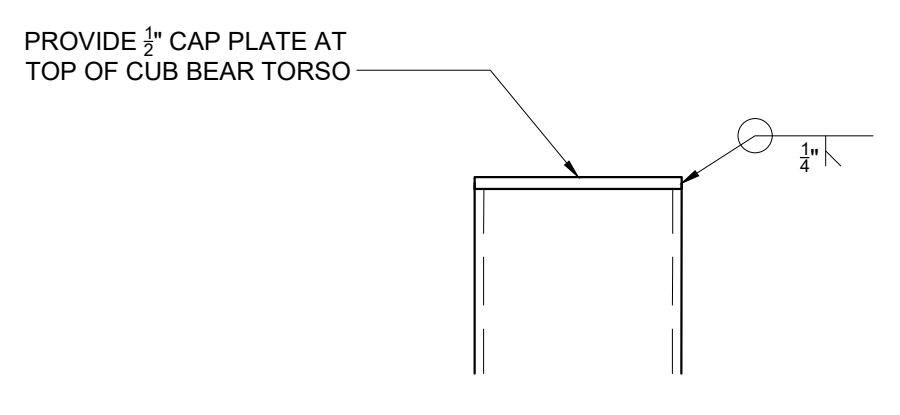
1504 Z CC001
14 TYPICAL CONCRETE COVER
scale: n.t.s.



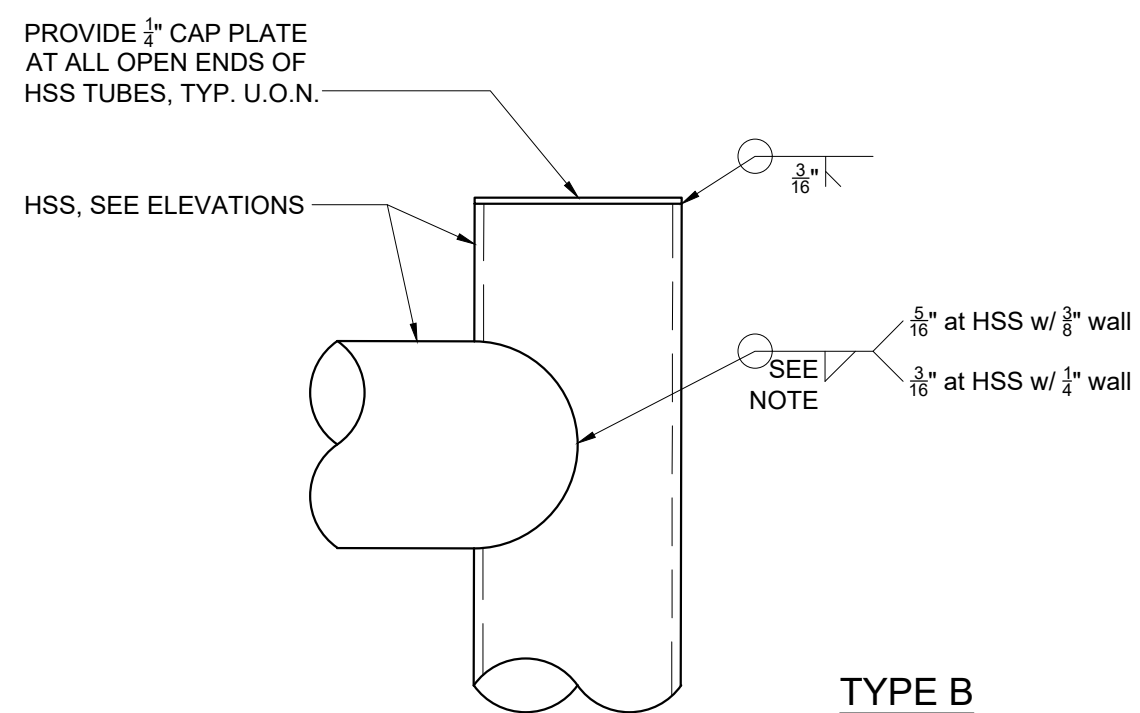
1504 Z CC001
13 BAR SPACING IN CONC.
scale: n.t.s.



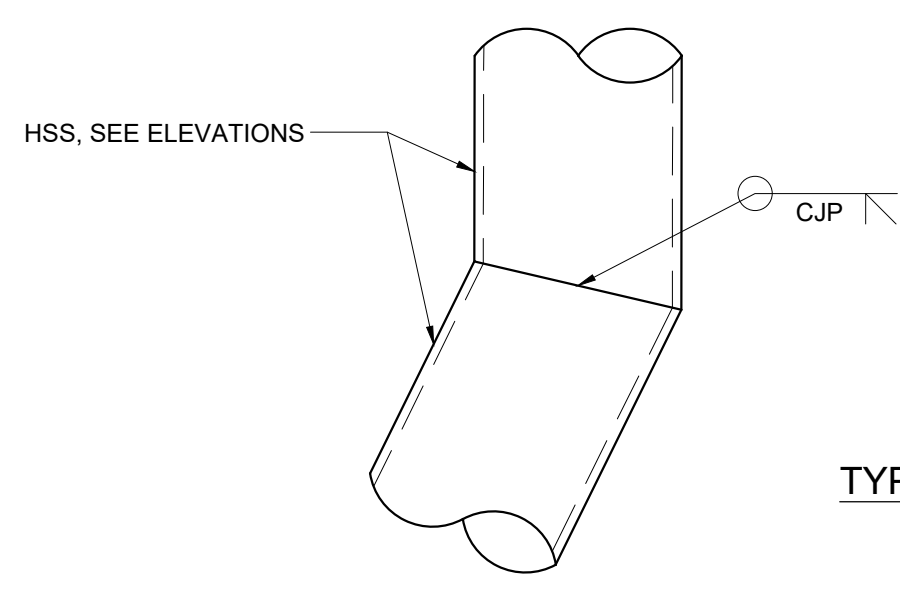
MAMA BEAR TOP



CUB BEAR TOP



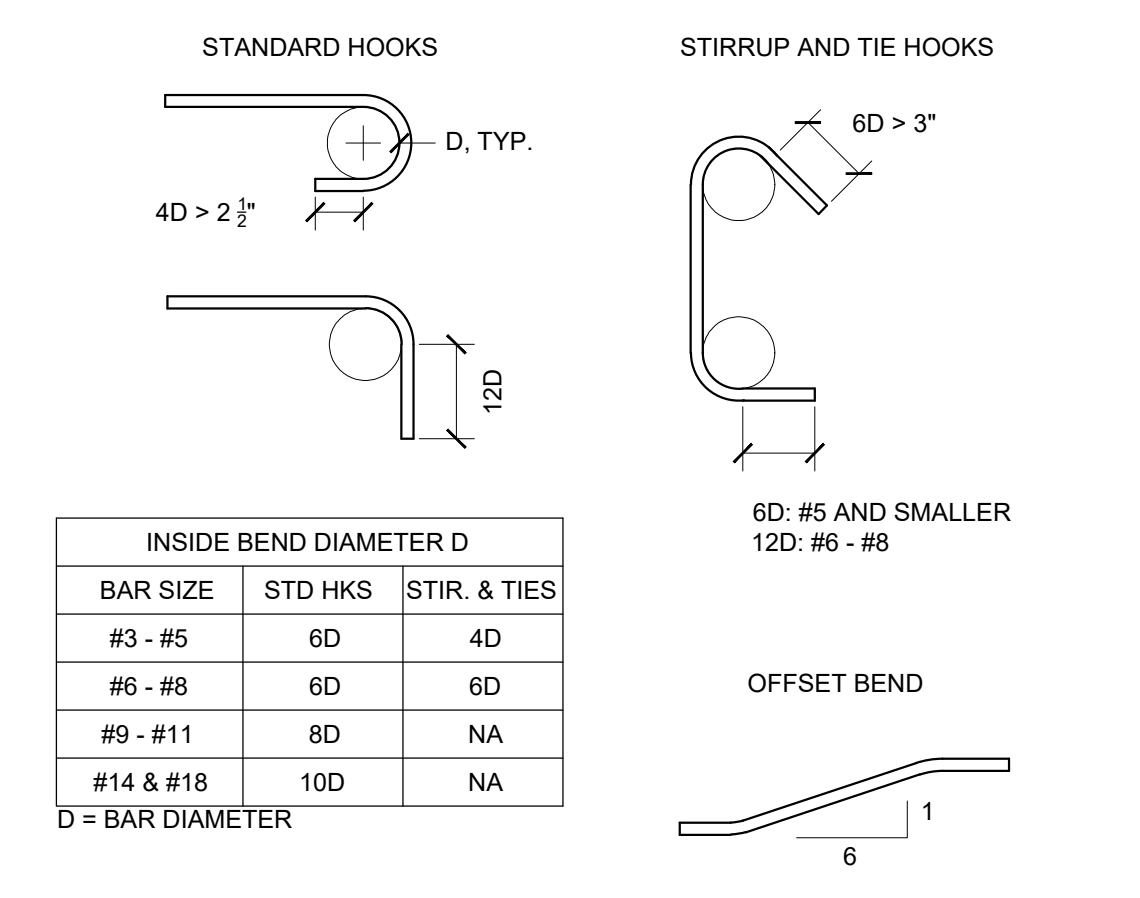
TYPE B



TYPE A

PROVIDE WEEP HOLES FOR MOISTURE AT ALL HSS PIPES

2207 ZS04
18 WELDING DETAILS
scale: 1-1/2" = 1'-0"



1918 Z CC004
17 REINF. HOOKS AND BENDS
scale: n.t.s.

17

