

COLEMAN ELEMENTARY SCHOOL KINDERGARTEN PLAY YARD AND PLAYGROUND MODERNIZATION

800 BELLE AVE., SAN RAFAEL, CA 94901

DSA APPL. #01-121950

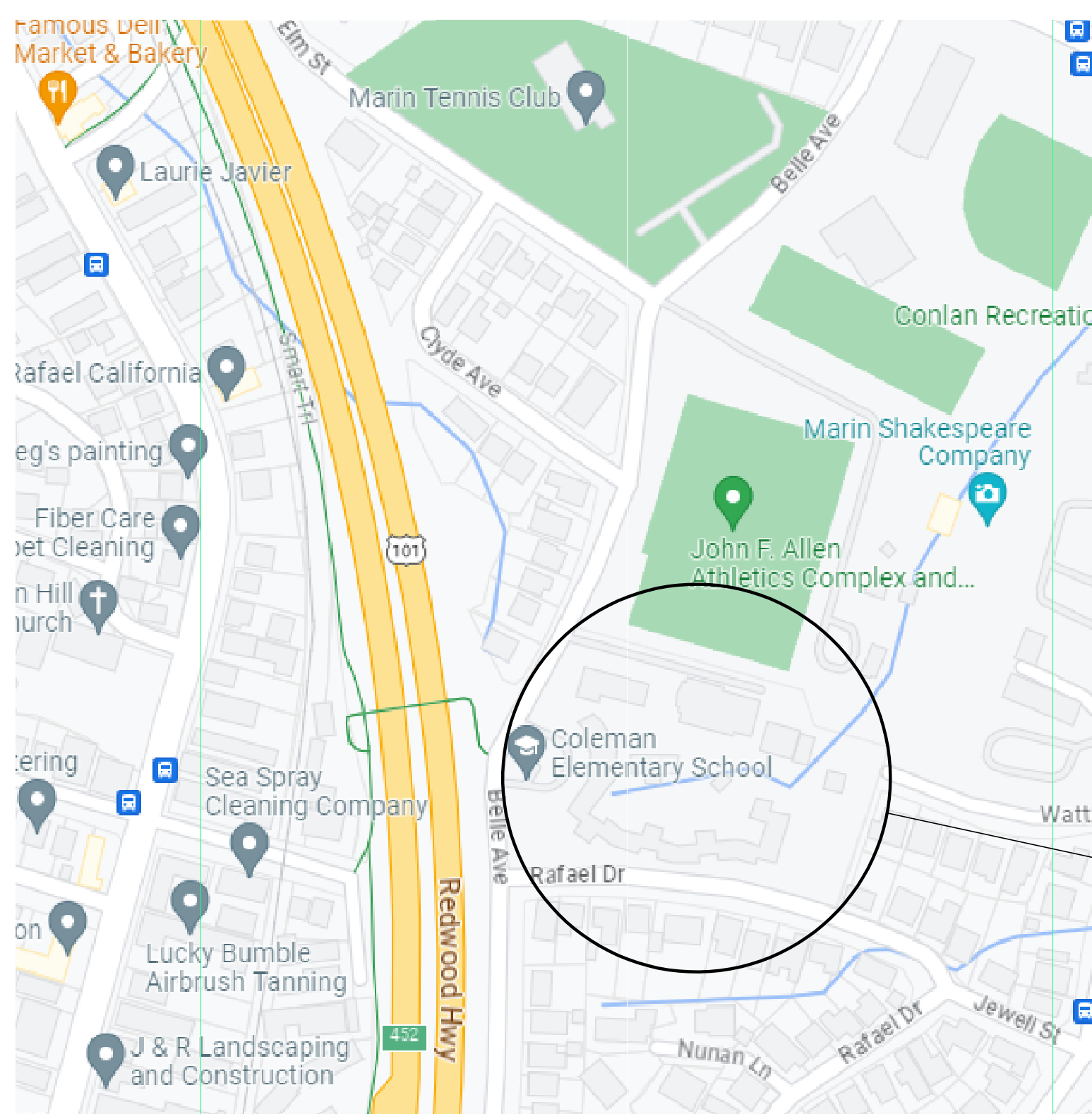
PROJECT TEAM

OWNER	SAN RAFAEL CITY SCHOOLS
ARCHITECT	HKIT ARCHITECTS
STRUCTURAL	H.D. RUEB STRUCTURAL ENGINEERS
CIVIL ENGINEER	BELLECCI AND ASSOCIATES
LANDSCAPE ARCHITECT	INTEGRATED DESIGN STUDIOS, INC.
ELECTRICAL ENGINEER	O'MAHONY + MYER

SUMMARY OF SCOPE OF WORK

- KINDERGARTEN PLAY YARD
 - NEW FENCING
 - NEW PLAY STRUCTURE AND PROTECTIVE SURFACING
 - NEW AC PAVING AND STRIPING
 - INSTALLATION OF PC SHADE STRUCTURE
 - PATH OF TRAVEL UPGRADES INCLUDING NEW DRINKING FOUNTAIN
- PLAYGROUND
 - NEW SURFACING AT (E) AC PAVING
 - NEW PLAY EQUIPMENT AND PROTECTIVE SURFACING
 - NEW GAME STRIPING
 - INSTALLATION OF PC SHADE STRUCTURE
- NEW ELECTRONIC MARQUEE SIGN - NOT FOR DSA REVIEW

VICINITY MAP



ABBREVIATIONS

A	AND	ADJ.	ADJUSTABLE	CLG.	CEILING	DIM.	DIMENSION	EXPO.	EXPOSED	FTG.	FOOTING	ID	INSIDE DIAMETER (DIM.)	MISC.	MIRROR	P.D.F.	POWER DRIVEN FASTENER	RESIL.	RESILIENT	SNR	SANITARY NAPKIN RECEPTACLE	T.O.S.	TOP OF SLAB	W.	WEST
f	ANGLE	A.F.F.	ABOVE FINISH FLOOR	CLKG.	CAULKING	DIST.	DISTANCE	EXT.	EXTERIOR	FURR.	FURRING	I.D.	INTERMEDIATE DIST. FRAME	MISC.	MISCELLANEOUS	P.I.V.	POST INDICATOR VALVE	RM.	ROOM	SPEC.	SPECIFICATION	T.O.P.	TOP OF PAVEMENT	W/	WITH
c	AT	AGGR.	AGGREGATE	CLO.	CLOSET	DN.	DOWN	F.A.	FIRE ALARM	G.A.	GAUGE	INSUL.	INSULATION	M.L.	MOISTURE RESISTANT	PL.	PLATE	R.O.	ROUGH OPENING	S.D.	SEE PLUMBING DOCUMENTS	T.O.W.	TOP OF WALL	W.C.	WATER CLOSET
l	CENTER LINE	ALT.	ALTERNATE	DR.	DRAWING	DS.	DOWNSPOUT	F.D.	FLOOR DRAIN	GALV.	GALVANIZED	INT.	INTERIOR	MUL.	MULLION	PLAM	PLASTIC LAMINATE	R.W.	REDWOOD	S.S.	STAINLESS STEEL	T.P.D.	TOILET PAPER DISPENSER	W.D.	WOOD
o	DIAMETER OR ROUND	APPROX.	APPROXIMATE	CMU.	CONC. MASONRY UNIT	DWG.	DRAWING	F.D.C.	FIRE DEPARTMENT CONNECTION	G.I.	GALVANIZED IRON	JOINT	JOINT	N	NORTH	PLYWO.	PLYWOOD	R.W.L.	RAIN WATER LEADER (PIPE)	S.S.D.	SEE STRUCTURAL DOCUMENTS	T.R.D.	TREAD	W.O.	WITHOUT
#	PERPENDICULAR	BD.	BITUM.	CONC.	CONCRETE	CONN.	CONNECTION	FDN.	FOUNDATION	GND.	GROUND	KIT.	KITCHEN	N.C.	NOT IN CONTRACT	GR.	GRADE	BR.	BROWN	S.S.K.	SEE SERVICE SINK	TRD.	TREAD	W/O.	WHERE OCCURS
l	POUND OR NUMBER	B.D.G.	BUILDING	CONSTR.	CONSTRUCTION	CONTR.	CONTRACTOR	F.E.C.	FIRE EXTINGUISHER	GR.	GRADE	LAB.	LABORATORY	NOM.	NOMINAL	PTN.	PARTITION	S.C.D.	SEE CIVIL DOCUMENTS/	STD.	STANDARD	TV.	TELEVISION	W.	WHERE
(F)	EXISTING	BM.	BENCHMARK	CNT.	CENTER	CNT.	CENTER	F.F.C.	FIRE EXTINGUISHER CAB.	G.P.	GYPSUM ASSOCIATION	LAM.	LAMINATE	N.T.S.	NOT TO SCALE	P.T.R.	PAPER TOWEL RECEPTACLE	S.C.D.	SEE CIVIL DOCUMENTS/	STOR.	STORAGE	T.W.B.	TACKLE WALLBOARD	WC.	WATERWEATHER PROOF
(R)	NEW	BTWN.	BETWEEN	CNT.	CENTER	CNT.	CENTER	F.F.C.	FIRE EXTINGUISHER CAB.	H.B.	HOSE BIBB	LAV.	LAVATORY	O.A.	OVERALL	OVER	OVER	OVER	OVER	S.C.D.	SEE CIVIL DOCUMENTS/	T.V.	TYPICAL	WST.	WANGCOT
(R)	REMOVED	BTWN.	BETWEEN	CNT.	CENTER	CNT.	CENTER	F.F.C.	FIRE EXTINGUISHER CAB.	H.C.	HOLLOW CORE	LOCK.	LOCKER	O.C.	ON CENTER	O.D.	OUTSIDE DIAMETER (DIM.)	QT.	QUARRY TILE	S.C.D.	SEE CIVIL DOCUMENTS/	T.G.	TONGUE AND GROOVE	WST.	WANGCOT
A.B.	ANCHOR BOLT	CAB.	CABINET	DBL.	DOUBLE	DEPT.	DEPTH	F.O.F.	FACE OF FINISH	H.C.	HOLLOW CORE	LAB.	LABORATORY	N.T.S.	NOT TO SCALE	P.T.R.	PAPER TOWEL RECEPTACLE	S.C.D.	SEE CIVIL DOCUMENTS/	STD.	STANDARD	T.W.B.	TACKLE WALLBOARD	WC.	WATERWEATHER PROOF
A.C.	ASPHALT CONCRETE	C.B.	CATCH BASIN	DBL.	DOUBLE	DEPT.	DEPTH	F.O.F.	FACE OF FINISH	H.C.	HOLLOW CORE	LAB.	LABORATORY	N.T.S.	NOT TO SCALE	P.T.R.	PAPER TOWEL RECEPTACLE	S.C.D.	SEE CIVIL DOCUMENTS/	STD.	STANDARD	T.W.B.	TACKLE WALLBOARD	WC.	WATERWEATHER PROOF
A/C.	AIR CONDITIONING	C.B.	CATCH BASIN	DBL.	DOUBLE	DEPT.	DEPTH	F.O.F.	FACE OF FINISH	H.C.	HOLLOW CORE	LAB.	LABORATORY	N.T.S.	NOT TO SCALE	P.T.R.	PAPER TOWEL RECEPTACLE	S.C.D.	SEE CIVIL DOCUMENTS/	STD.	STANDARD	T.W.B.	TACKLE WALLBOARD	WC.	WATERWEATHER PROOF
A/C.	ACQUISITION	C.B.	CATCH BASIN	DBL.	DOUBLE	DEPT.	DEPTH	F.O.F.	FACE OF FINISH	H.C.	HOLLOW CORE	LAB.	LABORATORY	N.T.S.	NOT TO SCALE	P.T.R.	PAPER TOWEL RECEPTACLE	S.C.D.	SEE CIVIL DOCUMENTS/	STD.	STANDARD	T.W.B.	TACKLE WALLBOARD	WC.	WATERWEATHER PROOF
A.D.	ADJUSTABLE TILE	C.B.	CATCH BASIN	DBL.	DOUBLE	DEPT.	DEPTH	F.O.F.	FACE OF FINISH	H.C.	HOLLOW CORE	LAB.	LABORATORY	N.T.S.	NOT TO SCALE	P.T.R.	PAPER TOWEL RECEPTACLE	S.C.D.	SEE CIVIL DOCUMENTS/	STD.	STANDARD	T.W.B.	TACKLE WALLBOARD	WC.	WATERWEATHER PROOF
A.D.	AREA DRAIN	C.B.	CATCH BASIN	DBL.	DOUBLE	DEPT.	DEPTH	F.O.F.	FACE OF FINISH	H.C.	HOLLOW CORE	LAB.	LABORATORY	N.T.S.	NOT TO SCALE	P.T.R.	PAPER TOWEL RECEPTACLE	S.C.D.	SEE CIVIL DOCUMENTS/	STD.	STANDARD	T.W.B.	TACKLE WALLBOARD	WC.	WATERWEATHER PROOF

REGULATORY REQUIREMENTS

- REFERENCES**
- A. CONSTRUCTION SHALL BE IN ACCORDANCE W/ THE FOLLOWING GOVERNING CODES:
- 2022 TRIENNIAL EDITION OF THE CALIFORNIA CODE OF REGULATIONS, TITLE 24:
- 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC) PART 1, TITLE 24 CCR
 - 2022 CALIFORNIA BUILDING CODE (CBC) PART 2, TITLE 24 CCR
 - 2022 CALIFORNIA ELECTRICAL CODE (CEC) PART 3, TITLE 24 CCR
 - 2022 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 CCR
 - 2022 CALIFORNIA PLUMBING CODE (CPC) PART 5, TITLE 24 CCR
 - 2022 CALIFORNIA ENERGY CODE PART 6, TITLE 24 CCR
 - 2022 CALIFORNIA FIRE CODE (CFC) PART 9, TITLE 24 CCR
 - 2022 CALIFORNIA EXISTING BUILDING CODE (CEBC) PART 10, TITLE 24 CCR
 - 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGreen) PART 11, TITLE 24 CCR
 - 2022 CALIFORNIA REFERENCED STANDARDS CODE PART 12, TITLE 24 CCR
 - TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
- B. APPLICABLE STANDARDS (FOR A LIST OF APPLICABLE STANDARDS, INCLUDING CALIFORNIA AMENDMENTS TOT HE NPFA STANDARDS, REFER TO CBC CHAPTER 35 AND CFC CHAPTER 80)
- NPFA 13 STANDARD FOR THE INSTALLATION OF AUTOMATIC SPRINKLER SYSTEMS (CA AMENDED), 2022 EDITION
 - NPFA 14 STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (CA AMENDED), 2022 EDITION
 - NPFA 17 STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS, 2021 EDITION
 - NPFA 17A STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS, 2021 EDITION
 - NPFA 20 STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION, 2019 EDITION
 - NPFA 22 STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION, 2013 EDITION
 - NPFA 24 STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED), 2018 EDITION
 - NPFA 72 NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED), 2022 EDITION
 - NPFA 80 STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES, 2019 EDITION
 - NPFA 2001 STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED), 2018 EDITION
 - UL 300 STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT, 2005 (R2010)
 - UL 464 AUDIBLE SIGNAL DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES, 2003 EDITION
 - UL 521 STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS, 1999 EDITION
 - UL 1971 STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED, 2002 (R2010)
 - ICC 300 STANDARD FOR BLEACHERS, FOLDING AND TELESCOPING SEATING AND GRANDSTANDS, 2017 EDITION

QUALITY ASSURANCE

- A. THE PROJECT FALLS UNDER THE JURISDICTION OF THE DEPARTMENT OF THE STATE ARCHITECT (DSA), STATE OF CALIFORNIA.
- B. DSA WILL INSPECT THE WORK PERIODICALLY PURSUANT TO TITLE 24, PART 1, SECTION 4-334, CCR.
- C. MATERIAL TESTING SHALL BE CONDUCTED PER TITLE 24, PART 1, SECTION 4-335.
- ALL TESTING MUST BE DONE BY AN INDEPENDENT TESTING SERVICE EMPLOYED BY THE OWNER, AND APPROVED BY THE ARCHITECT.
 - THE OWNER SHALL PAY FOR ALL TESTING PER TITLE 24, PART 1, SECTION 335(C), CCR.
 - WHERE TEST RESULTS DO NOT MEET PROJECT REQUIREMENTS, THE CONTRACTOR SHALL BEAR ALL COSTS OF THE TESTING, INCLUDING REIMBURSEMENT OF TESTING FEES TO THE OWNER.
 - SPECIAL INSPECTIONS, WHERE REQUIRED, WILL BE PERFORMED PER TITLE 24, PART 1, SECTION 4-333(C), CCR.

REPORTS AND APPROVALS

- A. VERIFIED REPORTS MUST BE FILED BY THE ARCHITECT, INSPECTOR, AND CONTRACTOR.
- THE INSPECTOR SHALL FILE VERIFIED REPORTS PER TITLE 24, PART 1, SECTION 4-336.
 - THE ARCHITECT SHALL FILE VERIFIED REPORTS PER TITLE 24, PART 1, SECTION 4-336.
 - THE CONTRACTOR SHALL FILE VERIFIED REPORTS PER TITLE 24, PART 1, SECTION 4-336 AND 4-343(C).
- B. ALL ADDENDA AND CONSTRUCTION CHANGE DOCUMENTS REQUIRE DSA APPROVAL PURSUANT TO TITLE 24, PART 1, SECTION 4-338, CCR.
- CONSTRUCTION CHANGE DOCUMENTS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL.

DUTIES OF THE ARCHITECT AND CONTRACTOR

- A. THE FOLLOWING SHALL PERFORM THE DUTIES DESCRIBED:
- THE ARCHITECT, PER TITLE 24, PART 1, SECTION 4-333(A) AND 4-341, CCR.
 - THE CONTRACTOR, PER TITLE 24, PART 1, SECTION 4-343, CCR.
- B. THE PROJECT INSPECTOR MUST BE EMPLOYED BY THE OWNER AND APPROVED BY THE ARCHITECT AND DSA. INSPECTION SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 4-333(b), PART 1, TITLE 24. THE DUTY OF THE INSPECTOR SHALL BE IN ACCORDANCE WITH SECTION 4-342, PART 1, TITLE 24.
- C. DSA IS NOT SUBJECT TO ARBITRATION.
- D. ANY SUBSTITUTION SHALL BE CONSIDERED A CHANGE TO THE APPROVED APPLICATION AND SHALL BE SUBJECT TO FURTHER REVIEW AND APPROVAL BY DSA PRIOR TO FABRICATION, CONSTRUCTION OR USE. SUBSTITUTION OF MAJOR STRUCTURAL ELEMENTS SUCH AS FRAMING ETC. MUST BE STAMPED AND SIGNED BY THE ARCHITECT AND THE STRUCTURAL ENGINEER.

FEDERAL CODES AND STANDARDS:

- A. AMERICANS WITH DISABILITIES ACT (ADA), TITLE II.
- B. FOR TITLE II: 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN (APPEND. OF 28CFR PART 36)

COMPLIANCE WITH CFC CHAPTERS 14, FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION AND CBC CHAPTER 33 SAFETY DURING CONSTRUCTION WILL BE ENFORCED.

PROJECT NOTES

- DRAWINGS REPRESENT FINISHED CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION INCLUDING BUT NOT LIMITED TO SHORING AND TEMPORARY BRACING.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS SHOWN ON THE DRAWINGS AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
- FIGURE DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS.
- VERIFY ALL ROUGH-IN DIMENSIONS FOR EQUIPMENT PROVIDED IN THIS CONTRACT OR EQUIPMENT BY OTHERS.
- REPETITIVE FEATURES ARE NOT DRAWN IN THEIR ENTIRETY AND SHALL BE COMPLETELY PROVIDED AS IF DRAWN IN FULL.
- ALL EXISTING WORK WHICH IS DAMAGED, CUT OR REMOVED DURING AND AS A RESULT OF WORK UNDER THIS CONTRACT, AND WHICH IS TO REMAIN IN THE COMPLETED WORK SHALL BE RESTORED. PRINCIPAL ITEMS INCLUDE THE PATCHING OF WORK CUT AS A RESULT OF THE INSTALLATION OF OR REPAIR TO MECHANICAL, PLUMBING AND ELECTRICAL SYSTEMS; AND DEMOLITION ASSOCIATED WITH REMODELING.
- CUTTING SHALL BE KEPT TO A MINIMUM. WHEREVER POSSIBLE UNDERLYING SUPPORT SYSTEMS SHALL BE LEFT INTACT. UNLESS NOTED OTHERWISE NO CUTTING OF THE STRUCTURAL SYSTEM WILL BE ALLOWED WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.
- THE EXACT EXTENT OF CUTTING AND PATCHING REQUIRED TO PERFORM WORK UNDER THIS CONTRACT SHALL BE DETERMINED BY THE CONTRACTOR. WHENEVER IT IS POSSIBLE TO VISUALLY DISTINGUISH THE PATCHWORK FROM SURROUNDING MATERIALS THE PATCH SHALL BE RECTANGULAR IN SHAPE OR MATCH A MODULAR UNIT IN MODULAR MATERIALS. PATCH ATTACHMENT HOLES FROM REMOVED ITEMS TO MATCH SURROUNDING SURFACE. PATCH SURFACES WHICH BECOME EXPOSED WHEN MOUNTED ITEMS ARE REMOVED. MAINTAIN FIRE RATING OF ASSEMBLIES. SEE SPECIFICATION SECTION 01045.
- DEMOLITION AND REMOVAL WORK INCLUDES REQUIRED CAPPING AND DISCONNECTION OF ABANDONED SERVICES.
- WHEN SUBSTITUTIONS OR REVISION OF EITHER A DETAIL OR AN ASSEMBLY SHOWING WITH A UL OR GA LISTING NUMBER IS PROPOSED BY THE CONTRACTOR, A SIMILAR OR EQUAL TESTING MUST BE SUBMITTED TO THE ARCHITECT FOR APPROVAL BY DSA.
- UNLESS OTHERWISE NOTED, PLAN DIMENSIONS ARE TO EITHER FACE OF (E) FINISH, FACE OF (I) STUDS, FACE OF CONCRETE AND CMU OR CENTER LINE.
- PROVIDE AND VERIFY SIZE AND LOCATION OF THE FOLLOWING: REQUIRED ACCESS DOORS, OPENINGS, FURNINGS, ANCHORS, INSERTS AND BLOCKING REQUIRED FOR ACCESSORIES, AND MECHANICAL AND ELECTRICAL EQUIPMENT.
- WHERE A DOOR IS LOCATED NEAR THE CORNER OF A ROOM, AND IS NOT LOCATED BY THE PLAN DIMENSION OR DETAIL, THE DIMENSION SHALL BE 4-INCH FROM THE FACE OF WALL TO THE FINISH DOOR OPENING.
- ALL NOTED ITEMS ARE TO BE PROVIDED NEW UNLESS NOTED AS EXISTING (E) OR OTHERWISE NOTED. REPLACE MEANS TO REMOVE EXISTING (E), IF NOT MISSING, AND PROVIDE NEW (N). U.O.N. SALVAGE MEANS TO REMOVE INTACT, DELIVER OR STORE AND PROTECT FOR RE-USE AS INDICATED. DELIVER TO DISTRICT MEANS DELIVER TO A LOCATION ON THIS CAMPUS WHERE DIRECTED BY THE SCHOOL DISTRICT.
- ITEMS LABELED N.I.C. ARE NOT PART OF THIS DSA APPROVAL.
- HOLES IN WOOD FOR LAG SCREWS SHALL FIRST BE BORED TO THE SAME DIAMETER AND DEPTH AS THE SHANK. HOLES IN THE THREADED PORTION SHALL BE BORED WITH A BIT NOT LARGER THAN THE BASE OF THE THREADS.
- GENERAL CONTRACTORS AND ALL SUBCONTRACTORS ARE STRONGLY ADVISED TO VERIFY EXISTING SITE CONDITIONS PRIOR TO BID. SEE "INSTRUCTION TO BIDDERS" FOR TIME OF PRE-BID JOB WALK.
- PAVED WALKS SHALL CONFORM TO SECTION 3325, TITLE 24.
- ANY WORK ON THE FIRE ALARM SYSTEM WHERE APPLICABLE, SHALL BE BID TO THE GENERAL CONTRACTOR BY A SUBCONTRACTOR SPECIALIZING IN AND LICENSED TO INSTALL OR PERFORM WORK ON FIRE ALARM SYSTEMS. THE WORK SHALL NOT TO BE BID AS A SUBCONTRACT TO THE ELECTRICAL CONTRACTOR.
- ALL ACCESSORIES TO BE MOUNTED AT ADA COMPLIANT HEIGHTS AND TO HAVE A MAX. PENETRATION OF 4" BEYOND FACE OF WALL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY NECESSARY WORK TO MAINTAIN SERVICE ON THE EXISTING INTRUSION/BURGULAR ALARM SYSTEM, FIRE ALARM CIRCUITS, AND/OR ANY OTHER CIRCUITRY TO COMPLETE ANY OTHER TASK THAT IS PART OF THIS CONTRACT.
- ANY EXISTING EQUIPMENT INCLUDING BUT NOT LIMITED TO LOW VOLTAGE WIRING OR SYSTEM THAT IS DAMAGED OR LEADS TO ANY COMPONENT MALFUNCTION SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR TO THE SATISFACTION OF THE SCHOOL DISTRICT. ALL EXISTING EQUIPMENT OR SYSTEMS ARE ASSUMED IN PROPER FUNCTIONING ORDER U.O.N. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE THE SCHOOL DISTRICT OF ANY MALFUNCTIONING EQUIPMENT OR SYSTEMS PRIOR TO WORK IN THE AREA OF SCOPE OF WORK.
- EXISTING ELECTRICAL OUTLETS SHALL NOT BE REMOVED UNLESS REPLACED WITH LIKE KIND OUTLETS AT A SIMILAR LOCATION UNLESS APPROVED BY THE OWNER OR ARCHITECT.
- HAZARDOUS MATERIAL ABATEMENT, IF APPLICABLE WILL BE PROVIDED BY THE SCHOOL DISTRICT.
- SUBSTITUTE MATERIALS AND SYSTEMS - SECTION 1710 TITLE 21, GOVERNS AND READS IN PART. "THE ESTIMATED COST OF A PROJECT SHALL BE INCREASED AS NECESSARY TO INCLUDE THE ESTIMATED COST OF EVERY ALTERNATE BUILDING OR PORTION THEREOF SHOWN ON THE PLANS AND SPECIFICATIONS AS IF EACH ALTERNATE BUILDING AND PORTION WERE TO BE CONSTRUCTED SEPARATELY AND SIMULTANEOUSLY."
- SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS, A CONSTRUCTION CHANGE DOCUMENT DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.
- ALL ADDENDA AND CONSTRUCTION CHANGE DOCUMENTS REQUIRE DSA APPROVAL PURSUANT TO THE CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 1, SECTION 4-338.
- DUE TO THE DIFFICULTY OF ANTICIPATING EVERY UNSATISFACTORY CONDITIONS THAT MAY BE FOUND IN EXISTING CONSTRUCTION WHERE ALTERATION, REHABILITATION OR RECONSTRUCTION WORK IS PROPOSED, THE FOLLOWING CLAUSE SHALL BE INCLUDED IN ALL SPECIFICATIONS FOR ALTERATIONS, REHABILITATION OR RECONSTRUCTION PROJECTS: "THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONSTRUCTION DOCUMENTS WHEREIN THE THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CONSTRUCTION CHANGE DOCUMENT, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK."
- ITEMS LABELED (N.I.C.) OR FUTURE ARE NOT PART OF THIS DSA APPROVAL.
- THE DRAWINGS AND SPECIFICATIONS REPRESENT FINISHED CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION INCLUDING BUT NOT LIMITED TO SHORING AND TEMPORARY BRACING.
- ALL REQUIRED WORK SHALL BE COMPLETED TO ENTIRETY.
- ALL EXISTING FINISHES DISTURBED AS A RESULT OF CONSTRUCTION SHALL BE RESTORED, PATCHED, RECONSTRUCTED AND/OR PAINTED TO MATCH EXISTING ADJACENT SURFACE. MATCH PAINTING SHALL BE EXTENDED TO NATURAL BREAKS IN MATERIAL.

DRAWING INDEX

60.0 COVER SHEET	ARCHITECTURAL
61.02 SITE PLAN - LFA REVIEW	A1.0 OVERALL SITE PLAN
	A1.0R REMOVAL SITE PLAN
	A1.1 ENLARGED SITE PLAN - KINDER PLAY YARD
	A1.2 ENLARGED SITE PLAN - PLAYGROUND
	A8.1 MARQUEE SIGN - NOT FOR DSA REVIEW
	ELECTRICAL
	E-0.1 ELECTRICAL SYMBOLS LIST, SHEET INDEX & GENERAL NOTES
	E-1.1 SITE PLAN - ELECTRICAL
	E7.1 DETAILS
	STRUCTURAL
	S1.1 STRUCTURAL NOTES
	S1.2 TYPICAL CONCRETE DETAILS
	S2.1 PARTIAL SITE PLAN
	S3.1 FOUNDATION DETAILS
	PC DRAWINGS - FABRIC SHADE STRUCTURE #04-121917
	T-1.0 TITLE SHEET
	T-2.0 UNIT SELECTION
	T-3.0 T&I FORMS
	26.1-1000 PRODUCT INFORMATION
	26.2-2000 REACTIONS
	PC DRAWINGS - HIP ROOF SHADE STRUCTURE #02-121213
	RAM 1.0 ORDER FORM
	RAM 1.1 NOTES AND SPECIAL INSPECTIONS
	RAM 2.3 FOUNDATION PLAN DRILLED PIER
	RAM 3.1 FRAMING PLAN
	RAM 4.2 FRAME CONNECTION DETAILS
	RAM 4.3 SECTION DETAILS
	RAM 5.1 ARCHITECTURAL VIEWS
	RAM 6.0 ROOF CONNECTION DETAILS
	RAM 6.1 ROOF CONNECTION DETAILS
	RAM 7.0 MISC DESIGN OPTIONS
	TOTAL: 61 SHEETS

STATEMENT OF GENERAL CONFORMANCE

THESE DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. THESE DOCUMENTS HAVE BEEN EXAMINED BY ME FOR:

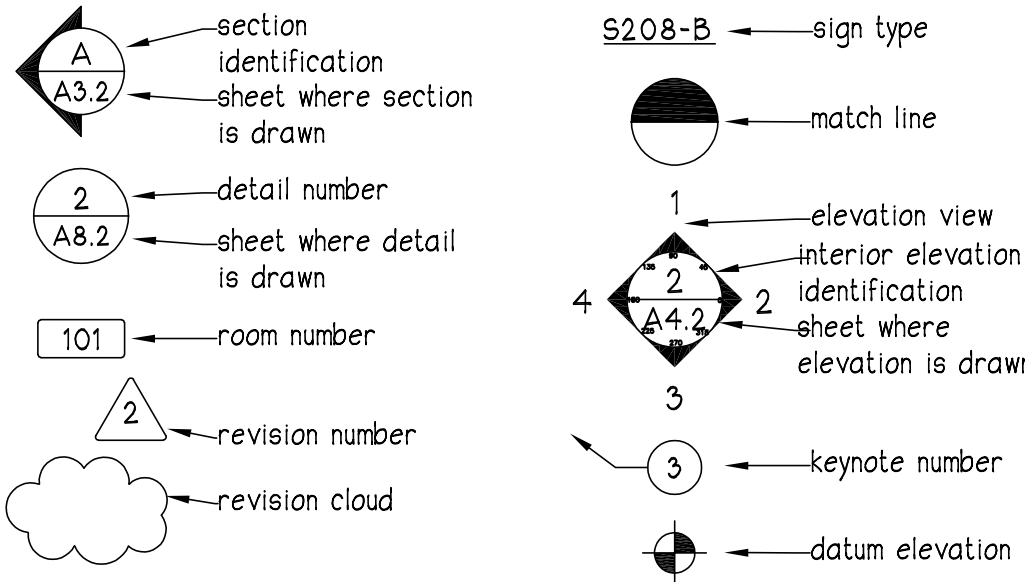
- DESIGN INTENT AND APPEAR TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND
- COORDINATE WITH MY PLANS AND SPECIFICATIONS AND ARE ACCEPTABLE FOR INCORPORATION INTO THE PROJECT.

THE STATEMENT OF GENERAL CONFORMANCE SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17302 AND 81398 OF THE EDUCATION CODE AND SECTIONS 4-336, 4-341, AND 4-344 OF TITLE 24, PART 1, SECTION 4-317 (b).

I CERTIFY THAT ALL DRAWINGS OR SHEETS LISTED ON THE COVER AND/OR INDEX ARE IN GENERAL CONFORMANCE.

SIGNATURE OF THE ARCHITECT/ENGINEER	03/11/24
Jeffrey M. Evans, Architect, HKIT	DATE
32430	10/31/25
LICENSE NUMBER	EXPIRATION DATE

SYMBOLS



HKIT ARCHITECTS

538 NINTH STREET SUITE 240 • OAKLAND, CA 94607

T 510 625 9800 • F 510 625 9801 • WWW.HKIT.COM

COLEMAN
ELEMENTARY
KINDERGARTEN PLAY
YARD AND PLAY
GROUND
MODERNIZATION

SAN RAFAEL, CA

JOB NO. 23007 PH 2
DRAWN AF
CHECKED
JOB CAPTAIN
DATE

DSA SUBMITTAL 10/01/24

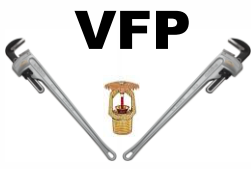
DRAWING TITLE
COVER SHEET

SCALE AS NOTED

GO.0

COPYRIGHT © 2021 HKIT ARCHITECTS

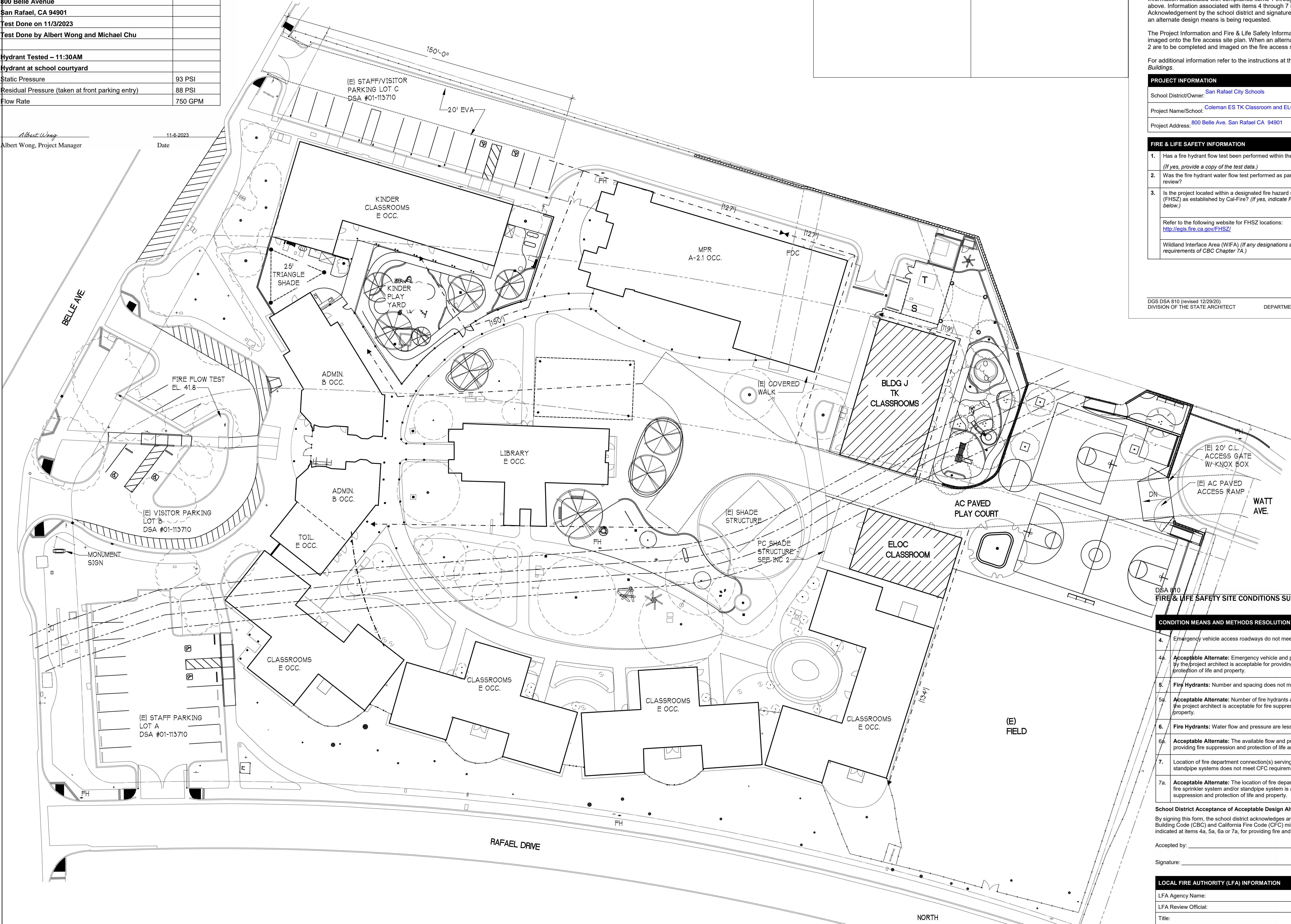
VALUE FIRE PROTECTION, INC.
2266 Shafter Avenue
San Francisco, CA 94124
PHONE: 415 668-3398 FAX: 415 668-0869
Email: valuefire@aol.com C-16 # 531199



Flow Test	Readings
Coleman Elementary School	
800 Belle Avenue	
San Rafael, CA 94901	
Test Done on 11/3/2023	
Test Done by Albert Wong and Michael Chu	
Hydrant Tested – 11:30AM	
Hydrant at school courtyard	
Static Pressure	93 PSI
Residual Pressure (taken at front parking entry)	88 PSI
Flow Rate	750 GPM

Albert Wong, Project Manager

11-6-2023
Date



1 FIRE ACCESS SITE PLAN
SCALE : 1" = 20'-0"

NOTES

1. ROOF AT PC SHADE STRUCTURES SHALL MEET CLASS A FIRE RATING. SEE PC DRAWINGS.

LEGEND

- 1" FH (E) FIRE HYDRANT
- EXISTING PROPERTY LINE LINE
- (DISTANCE) FIRE PATH OF TRAVEL
- (E) 20'-0" WIDE FIRE ACCESS DSA #01-102779



810

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

Division of the State Architect (DSA) documents referenced within this publication are available on the [DSA Forms](#) or [DSA Publications](#) webpages.

To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new building(s), additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply.

Information associated with compliance items 1 through 3 below is to be provided for all project types indicated above. Information associated with items 4 through 7 is to be completed when an alternate means is utilized. Acknowledgement by the school district and signature from the Local Fire Authority (LFA) is only required when an alternate design means is being requested.

The Project Information and Fire & Life Safety Information sections are to be completed for all projects and imaged onto the fire access site plan. When an alternate design/means is proposed, all sections on pages 1 and 2 are to be completed and imaged on the fire access site plan.

For additional information refer to the instructions at the end of this form and DSA Policy PL 09-01: Fire Flow for Buildings.

PROJECT INFORMATION			
School District/Owner: San Rafael City Schools			
Project Name/School: Coleman ES TK Classroom and ELOC Buildings			
Project Address: 800 Belle Ave. San Rafael CA 94901			
FIRE & LIFE SAFETY INFORMATION			
1. Has a fire hydrant flow test been performed within the past 12 months? (If yes, provide a copy of the test data.)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
2. Was the fire hydrant water flow test performed as part of this LFA review?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
3. Is the project located within a designated fire hazard severity zone (FHSZ) as established by Cal-Fire? (If yes, indicate FHSZ classification below.)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Refer to the following website for FHSZ locations: http://egis.fire.ca.gov/FHSZ/	Moderate <input type="checkbox"/>	High <input type="checkbox"/>	Very High <input type="checkbox"/>
Wildland Interface Area (WIFA) (If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)			WIFA <input checked="" type="checkbox"/>

CONDITION MEANS AND METHODS RESOLUTION		ALTERNATE ACCEPTED			
		Yes	No	N/A	N/R
4. Emergency vehicle access roadways do not meet CFC requirements.				<input checked="" type="checkbox"/>	
4a. Acceptable Alternate: Emergency vehicle and personnel access as proposed by the project architect is acceptable for providing fire suppression and protection of life and property.					
5. Fire Hydrants: Number and spacing does not meet CFC requirements.				<input checked="" type="checkbox"/>	
5a. Acceptable Alternate: Number of fire hydrants and spacing as proposed by the project architect is acceptable for fire suppression and protection of life and property.					
6. Fire Hydrants: Water flow and pressure are less than CFC minimum.				<input checked="" type="checkbox"/>	
6a. Acceptable Alternate: The available flow and pressure is acceptable for providing fire suppression and protection of life and property.					
7. Location of fire department connection(s) serving fire sprinkler systems or standpipe systems does not meet CFC requirements.				<input checked="" type="checkbox"/>	
7a. Acceptable Alternate: The location of fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property.					

School District Acceptance of Acceptable Design Alternates
By signing this form, the school district acknowledges and accepts the proposed design as an alternative to California Building Code (CBC) and California Fire Code (CFC) minimum requirements, as indicated by one or more of the conditions indicated at items 4a, 5a, 6a or 7a, for providing fire and life safety protection of life and property.

Accepted by: _____ Title: _____
Signature: _____ Date: _____

LOCAL FIRE AUTHORITY (LFA) INFORMATION	
LFA Agency Name: _____	
LFA Review Official: _____	
Title: _____	Work Phone: _____
Work Email: _____	

LFA Reviewer's Signature: _____ Date: _____



538 NINTH STREET SUITE 240 • OAKLAND, CA 94607
T 510 625 9800 • F 510 625 9801 • WWW.HKIT.COM

COLEMAN
ELEMENTARY
KINDERGARTEN PLAY
YARD AND PLAY
GROUND
MODERNIZATION
SAN RAFAEL, CA

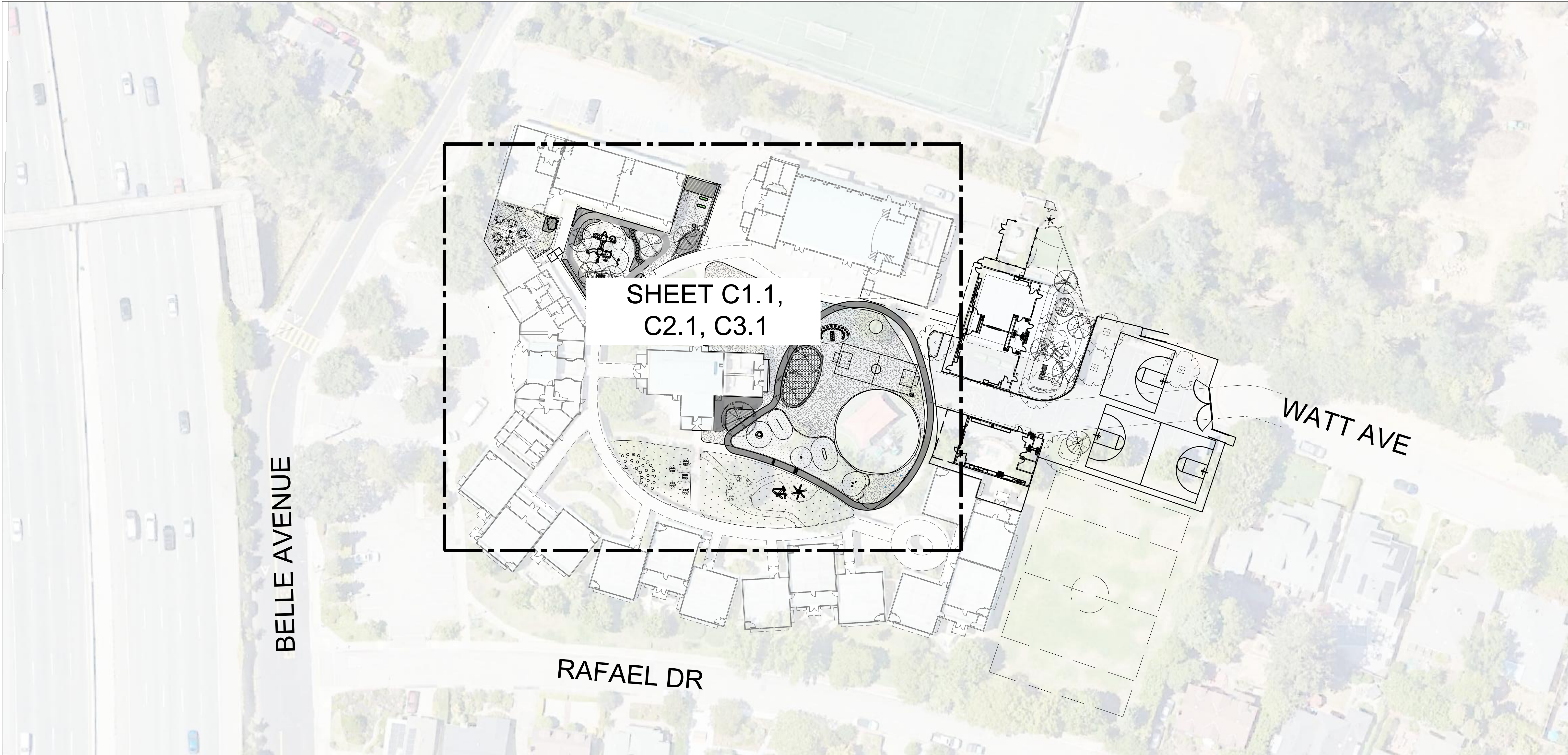
JOB NO. 23007 PH 2
DRAWN AF
CHECKED
JOB CAPTAIN
DATE DSA SUBMITTAL 10/01/24

DRAWING TITLE
SITE PLAN - LOCAL
FIRE AUTHORITY
REVIEW

SCALE AS NOTED

G1.02

COPYRIGHT © 2021 HKIT ARCHITECTS



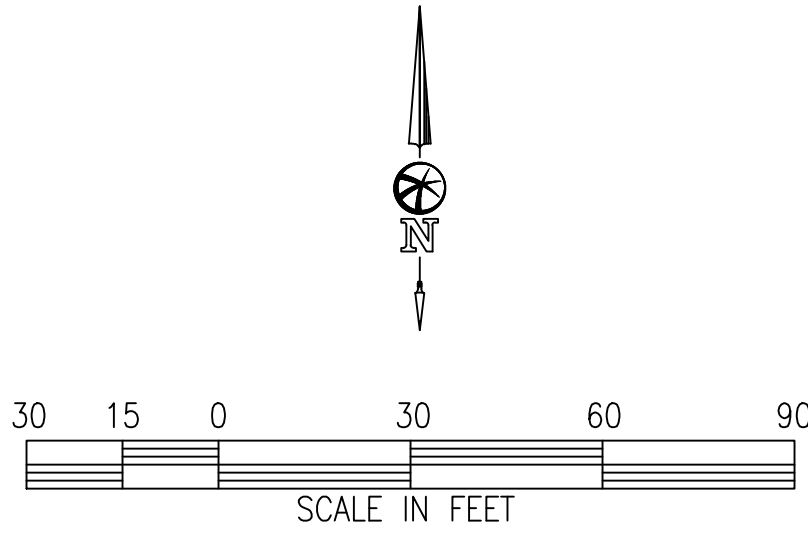
ABBREVIATIONS

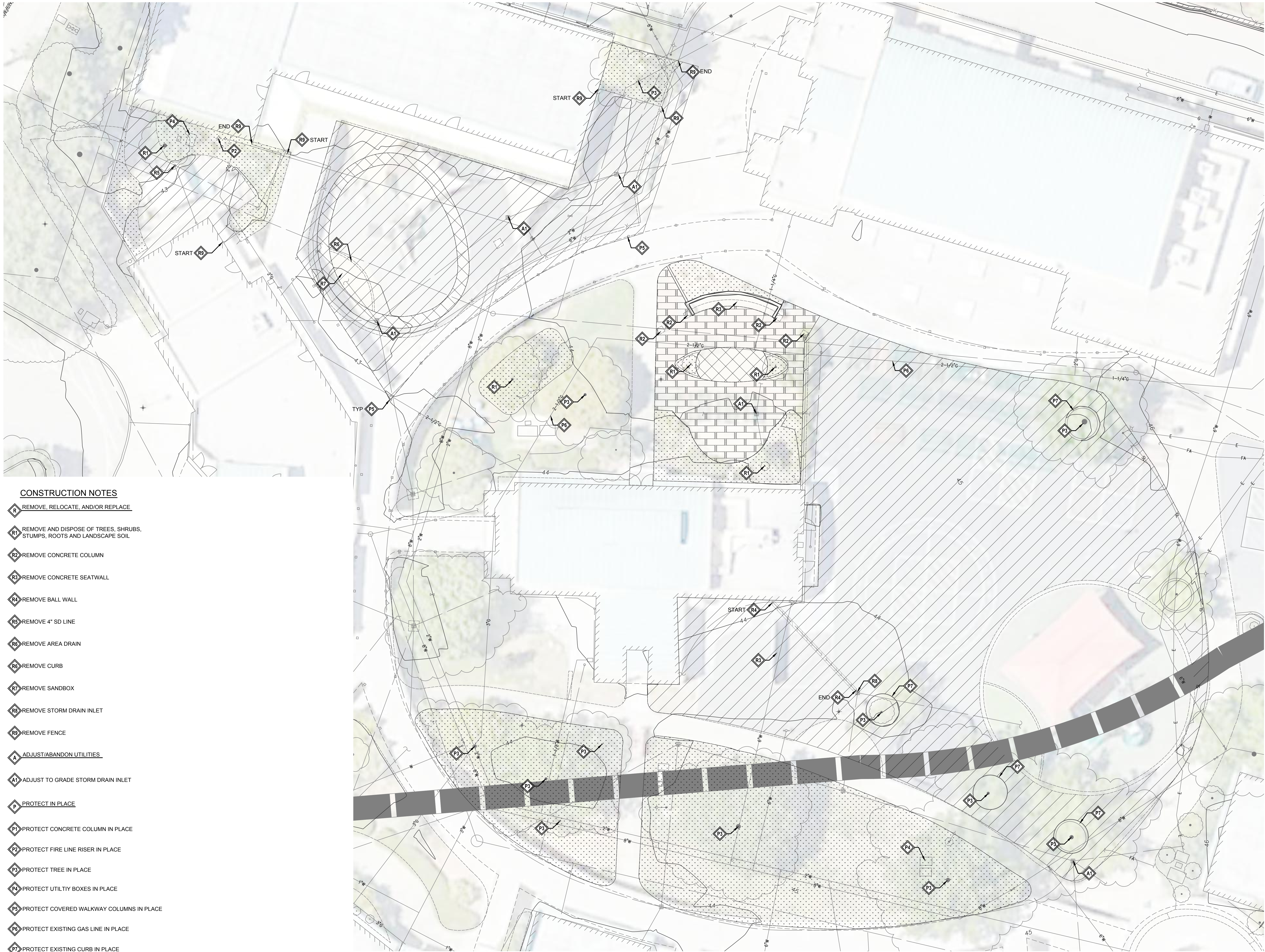
AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
ACP	ASBESTOS CEMENT PIPE
ADA	AMERICAN DISABILITIES ACT
CaMUTCD	CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
CO	CLEAN OUT
COM	COMMUNICATION
CONC	CONCRETE
BB	BOTTOM OF BIORETENTION
BW	BOTHWAYS
E	ELECTRICAL/EAST
EL	ELECTRICAL
EP	EDGE OF PAVEMENT
EVA	EMERGENCY VEHICLE ACCESS
EX	EXISTING
EW	EACH WAY
FDAC	FULL DEPTH ASPHALT CONCRETE
FDC	FIRE DEPARTMENT CONNECTION
FF	FINISH FLOOR
FG	FINISH GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
FS	FIRE SERVICE
FW	FACE OF WALK
G	GAS
GB	GRADE BREAK
GV	GAS VALVE
HP	HIGH POINT
IMP	INTEGRATED MANAGEMENT PRACTICE
INV	INVERT
LP	LOW POINT

LS	LANDSCAPE
MH	MANHOLE
MISC	MISCELLANEOUS
N	NORTH
NE	NORTHEAST
NW	NORTHWEST
OC	ON-CENTER
P	PROPOSED
PCC	PORTLAND CEMENT CONCRETE
PIV	POST INDICATOR VALVE
POC	POINT OF CONNECTION
PVC	POLYVINYL CHLORIDE
RC	RELATIVE COMPACTION
RWLS	RAIN WATER LEADER SPOUT
S	SOUTH
SD	STORM DRAIN
SDCO	STORM DRAIN CLEANOUT
SDMH	STORM DRAIN MANHOLE
SDR	STANDARD DIMENSION RATIO
SE	SOUTHEAST
SS	SANITARY SEWER
SSCO	SANITARY SEWER CLEANOUT
SMH/SSMH	SANITARY SEWER MANHOLE
STD	STANDARD
SW	SOUTHWEST
TC	TOP OF CURB
TFL	THEORETICAL FLOW LINE
TG	TOP OF GRATE
TS	TOP OF STEP
TW	TOP OF WALL
TYP	TYPICAL
T.FTG	TOP OF FOOTING
W	WEST
WV	WATER VALVE

GENERAL NOTES

- CONTRACTOR TO FIELD VERIFY DIMENSIONS, ELEVATIONS, AND LOCATION OF ALL EXISTING STRUCTURES, IMPROVEMENTS AND UNDERGROUND UTILITY LINES. KNOWN EXISTING UNDERGROUND UTILITIES ARE INDICATED IN THEIR APPROXIMATE LOCATION. CONTRACTOR TO NOTIFY THE ENGINEER IF ANY OF THE EXISTING STRUCTURES, IMPROVEMENTS, OR UNDERGROUND UTILITY LINES SHOWN ON THE DRAWINGS CONFLICT WITH THE PROPOSED CONSTRUCTION, AND WAIT FOR THE ENGINEER'S DECISION PRIOR TO BEGINNING OF THE WORK.
- KNOWN EXISTING UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATION TO THE BEST OF OUR KNOWLEDGE. CONTRACTOR SHALL EXERCISE CAUTION WHILE EXCAVATING AND PERFORMING CONSTRUCTION IN THE VICINITY OF THE UNDERGROUND LINES.
- ALL UTILITIES SHOWN ON PLAN ARE BASED ON RECORD MAPS. CONTRACTOR SHALL VERIFY UTILITIES PRIOR TO CONSTRUCTION. PROTECT IN-PLACE EXISTING UNLESS SHOWN OTHERWISE.

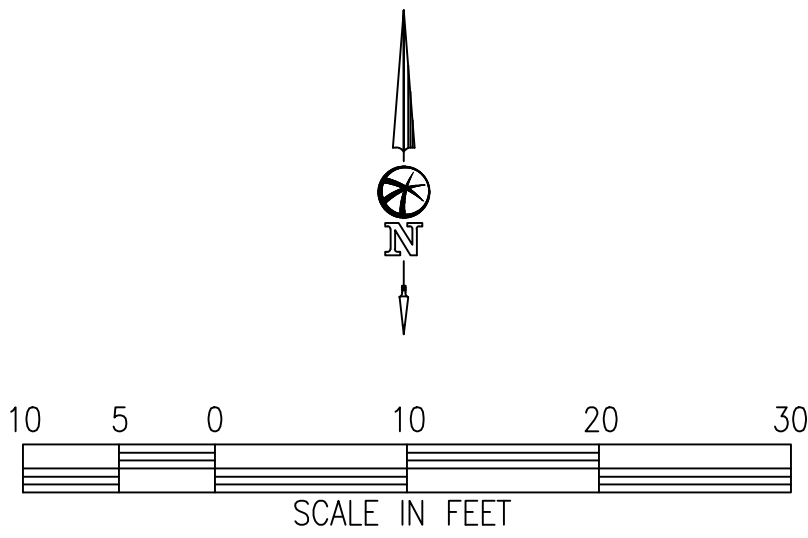


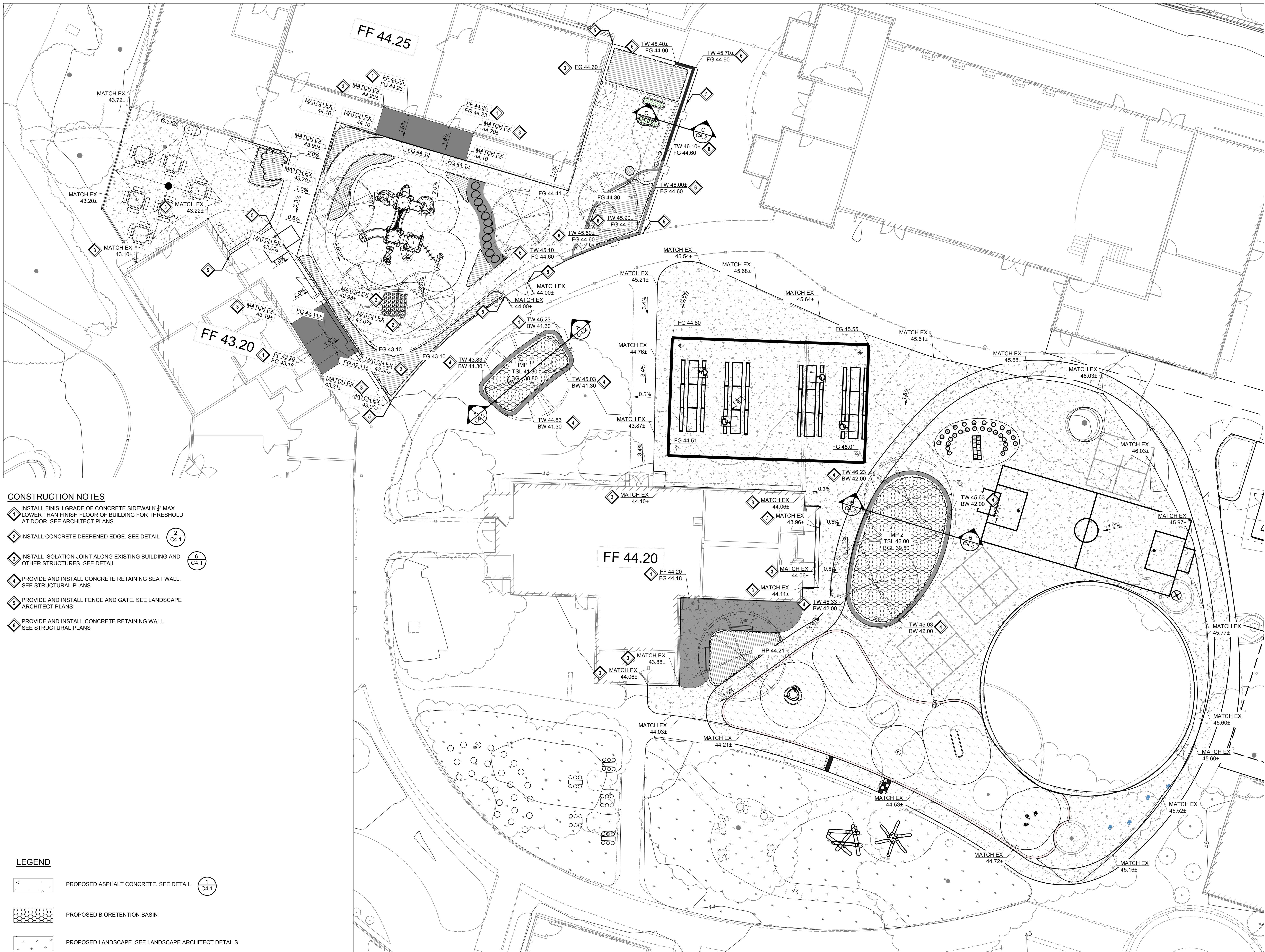


- CONSTRUCTION NOTES**
- R** REMOVE, RELOCATE, AND/OR REPLACE
 - R1** REMOVE AND DISPOSE OF TREES, SHRUBS, STUMPS, ROOTS AND LANDSCAPE SOIL
 - R2** REMOVE CONCRETE COLUMN
 - R3** REMOVE CONCRETE SEATWALL
 - R4** REMOVE BALL WALL
 - R5** REMOVE 4" SD LINE
 - R6** REMOVE AREA DRAIN
 - R6** REMOVE CURB
 - R7** REMOVE SANDBOX
 - R8** REMOVE STORM DRAIN INLET
 - R9** REMOVE FENCE
 - A** ADJUST/ABANDON UTILITIES
 - A1** ADJUST TO GRADE STORM DRAIN INLET
 - P** PROTECT IN PLACE
 - P1** PROTECT CONCRETE COLUMN IN PLACE
 - P2** PROTECT FIRE LINE RISER IN PLACE
 - P3** PROTECT TREE IN PLACE
 - P4** PROTECT UTILITY BOXES IN PLACE
 - P5** PROTECT COVERED WALKWAY COLUMNS IN PLACE
 - P6** PROTECT EXISTING GAS LINE IN PLACE
 - P7** PROTECT EXISTING CURB IN PLACE

- GENERAL NOTES**
- CONTRACTOR TO FIELD VERIFY DIMENSIONS, ELEVATIONS, AND LOCATION OF ALL EXISTING STRUCTURES, IMPROVEMENTS AND UNDERGROUND UTILITY LINES. KNOWN EXISTING UNDERGROUND UTILITIES ARE INDICATED IN THEIR APPROXIMATE LOCATION. CONTRACTOR TO NOTIFY THE ENGINEER IF ANY OF THE EXISTING STRUCTURES, IMPROVEMENTS, OR UNDERGROUND UTILITY LINES SHOWN ON THE DRAWINGS CONFLICT WITH THE PROPOSED CONSTRUCTION, AND WAIT FOR THE ENGINEER'S DECISION PRIOR TO BEGINNING OF THE WORK.
 - KNOWN EXISTING UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATION TO THE BEST OF OUR KNOWLEDGE. CONTRACTOR SHALL EXERCISE CAUTION WHILE EXCAVATING AND PERFORMING CONSTRUCTION IN THE VICINITY OF THE UNDERGROUND LINES.
 - ALL UTILITIES SHOWN ON PLAN ARE BASED ON RECORD MAPS. CONTRACTOR SHALL VERIFY UTILITIES PRIOR TO CONSTRUCTION. PROTECT IN-PLACE EXISTING UNLESS SHOWN OTHERWISE
 - REFER TO GEOTECHNICAL REPORT AND SOILS REPORT FOR DISPOSAL OF SPOILS

- LEGEND**
- REMOVE ASPHALT CONCRETE, BASE, SUBSOIL. EXCAVATE AS NECESSARY TO MEET GRADES REQUIRED FOR DESIGN SUBGRADE
 - REMOVE LANDSCAPE AS NECESSARY TO ACHIEVE DESIGN GRADES
 - REMOVE BRICK PAVERS
 - REMOVE UTILITY





CONSTRUCTION NOTES

1. INSTALL FINISH GRADE OF CONCRETE SIDEWALK $\frac{1}{2}$ " MAX LOWER THAN FINISH FLOOR OF BUILDING FOR THRESHOLD AT DOOR. SEE ARCHITECT PLANS
2. INSTALL CONCRETE DEEPEINED EDGE. SEE DETAIL C4.1
3. INSTALL ISOLATION JOINT ALONG EXISTING BUILDING AND OTHER STRUCTURES. SEE DETAIL C4.1
4. PROVIDE AND INSTALL CONCRETE RETAINING SEAT WALL. SEE STRUCTURAL PLANS
5. PROVIDE AND INSTALL FENCE AND GATE. SEE LANDSCAPE ARCHITECT PLANS
6. PROVIDE AND INSTALL CONCRETE RETAINING WALL. SEE STRUCTURAL PLANS

LEGEND

- | | |
|--|--|
| | PROPOSED ASPHALT CONCRETE. SEE DETAIL C4.1 |
| | PROPOSED BIORETENTION BASIN |
| | PROPOSED LANDSCAPE. SEE LANDSCAPE ARCHITECT DETAILS |
| | PROPOSED ARTIFICIAL TURF. SEE LANDSCAPE ARCHITECT DETAILS |
| | PROPOSED CONCRETE WALKWAY. SEE DETAIL C4.2 |
| | PROPOSED ENGINEERED WOOD FIBER. SEE LANDSCAPE ARCHITECT DETAILS C4.2 |

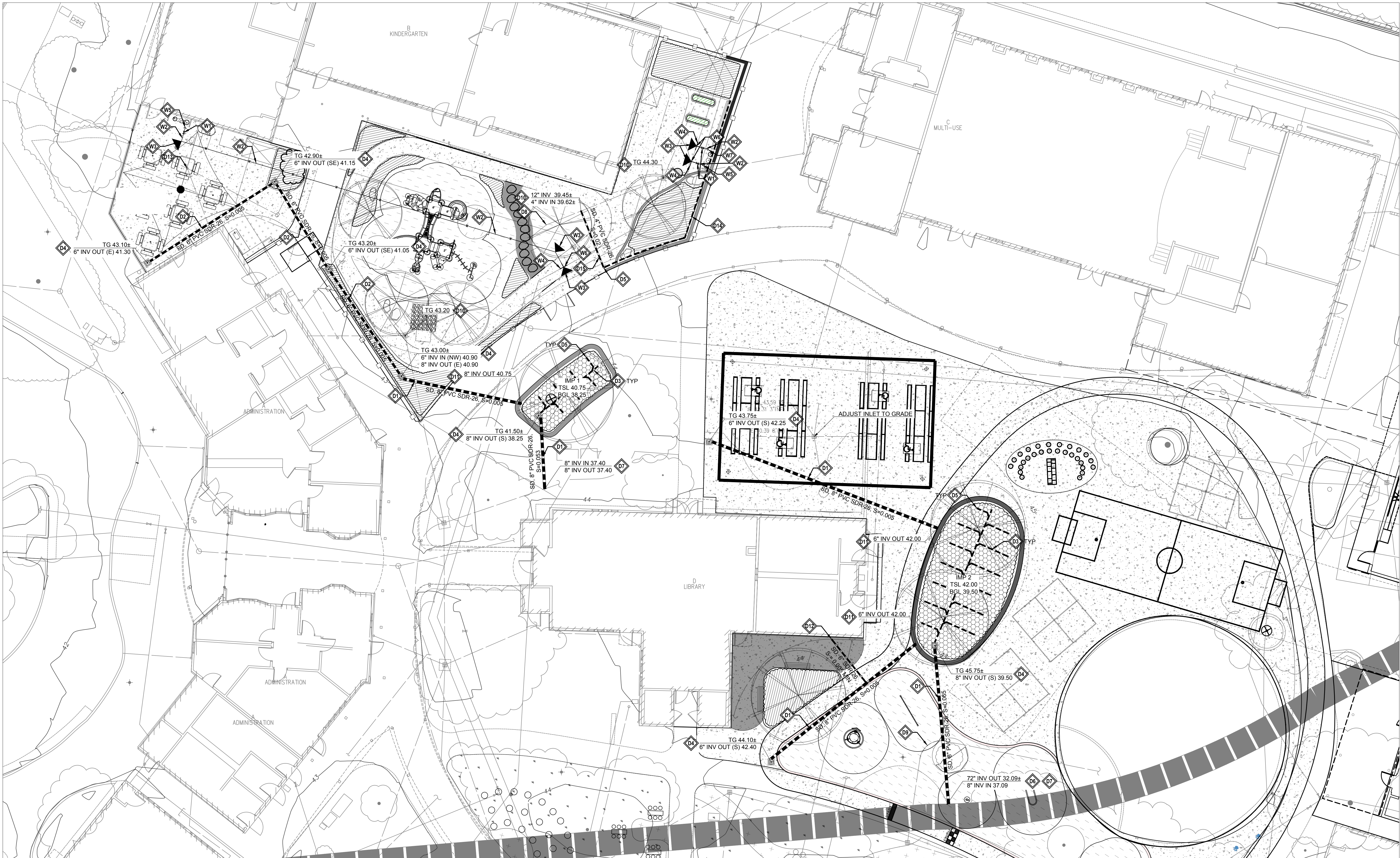
**COLEMAN
ELEMENTARY
KINDERGARTEN PLAY
YARD AND PLAY
GROUND
MODERNIZATION**
SAN RAFAEL, CA

JOB NO. 23007
DRAWN BH
CHECKED
JOB CAPTAIN AF
DATE DSA SUBMITTAL 10/01/24

DRAWING TITLE
GRADING PLAN

SCALE AS NOTED

C2.1
COPYRIGHT © 2021 HKIT ARCHITECTS



CONSTRUCTION NOTES

STORM DRAIN

- INSTALL 8" PVC SDR-26
- INSTALL 6" PVC SDR-26
- INSTALL 4" PVC SDR-35 PERFORATED PIPE WITH HOLES FACING DOWN
- INSTALL 18"x18" STORM DRAIN INLET. SEE DETAIL.
- INSTALL STORM DRAIN CLEANOUT. SEE DETAIL.
- POINT OF CONNECTION TO EXISTING 72" STORM DRAIN PIPE. SEE DETAIL.
- CONTRACTOR TO VERIFY VERTICAL AND HORIZONTAL LOCATION OF EXISTING STORM DRAIN LINE PRIOR TO CONSTRUCTION.
- REMOVE INLET AND CONNECT 2 EXISTING 12" STORM DRAIN PIPES TOGETHER
- INSTALL SCHEDULE 80 - 48" RADIUS TO CONNECT EXISTING PIPES TOGETHER
- ADJUST EXISTING STORM DRAIN INLET TO GRADE
- INSTALL RIP-RAP AT BASE OF INVERT. SEE DETAIL.
- POINT OF CONNECTION TO EXISTING ROOF DOWNSPOUT. CONTRACTOR TO VERIFY LOCATION AND PIPESIZE OF DOWNSPOUT
- REPLACE AREA DRAIN WITH CLEANOUT AND CONNECT ALL EXISTING STORM DRAIN PIPES TO CLEANOUT
- INSTALL 4" PVC SDR-35 PERFORATED PIPE WITH HOLES FACING DOWN. SEE STRUCTURAL PLANS FOR RETAINING WALL DETAIL.
- INSTALL 4" PVC SDR-26

WATER

- PROVIDE AND INSTALL WATER VALVE IN VALVE BOX WITH LID LABELED "WATER"
- PROVIDE AND INSTALL 2" HDPE WITH 3.0' MINIMUM COVER AND WRAPPED
- PROVIDE AND INSTALL THRUST BLOCK W-8 PER CITY STANDARD DETAIL. SEE DETAIL.
- PROVIDE AND INSTALL 3"x3"x3" TEE
- POINT OF CONNECTION TO WATER FOUNTAIN. SEE ARCHITECT DETAILS
- CONTRACTOR TO LOCATE AND VERIFY VERTICAL/HORIZONTAL LOCATION, PIPE SIZE, AND MATERIAL OF WATER PRIOR TO CONSTRUCTION
- POINT OF CONNECTION TO HOSE BIB. SEE ARCHITECT DETAILS

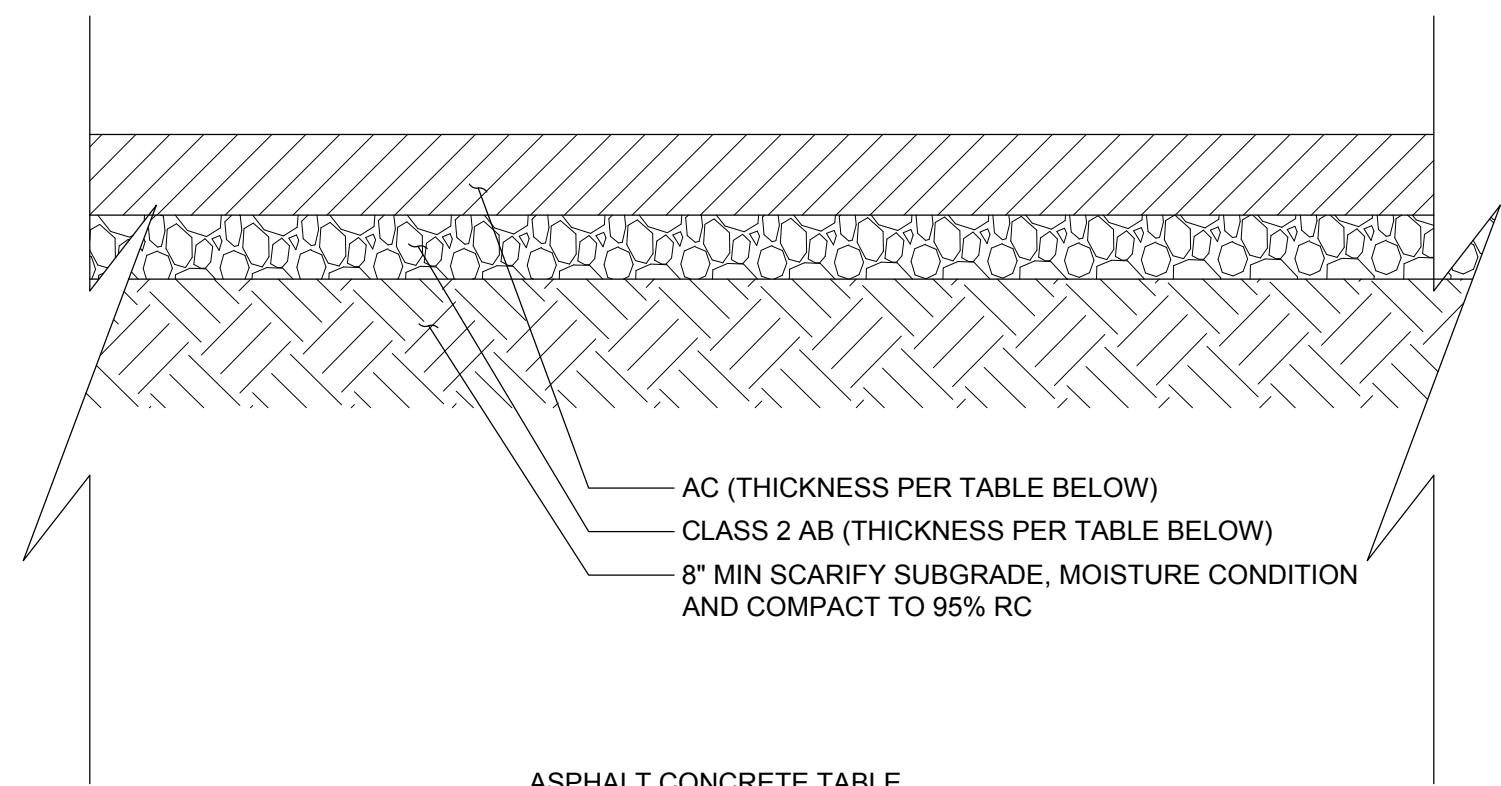
COLEMAN
ELEMENTARY
KINDERGARTEN PLAY
YARD AND PLAY
GROUND
MODERNIZATION
SAN RAFAEL, CA

JOB NO. 23007
DRAWN BH
CHECKED
JOB CAPTAIN AF
DATE DSA SUBMITTAL 10/01/24

DRAWING TITLE
UTILITY PLAN

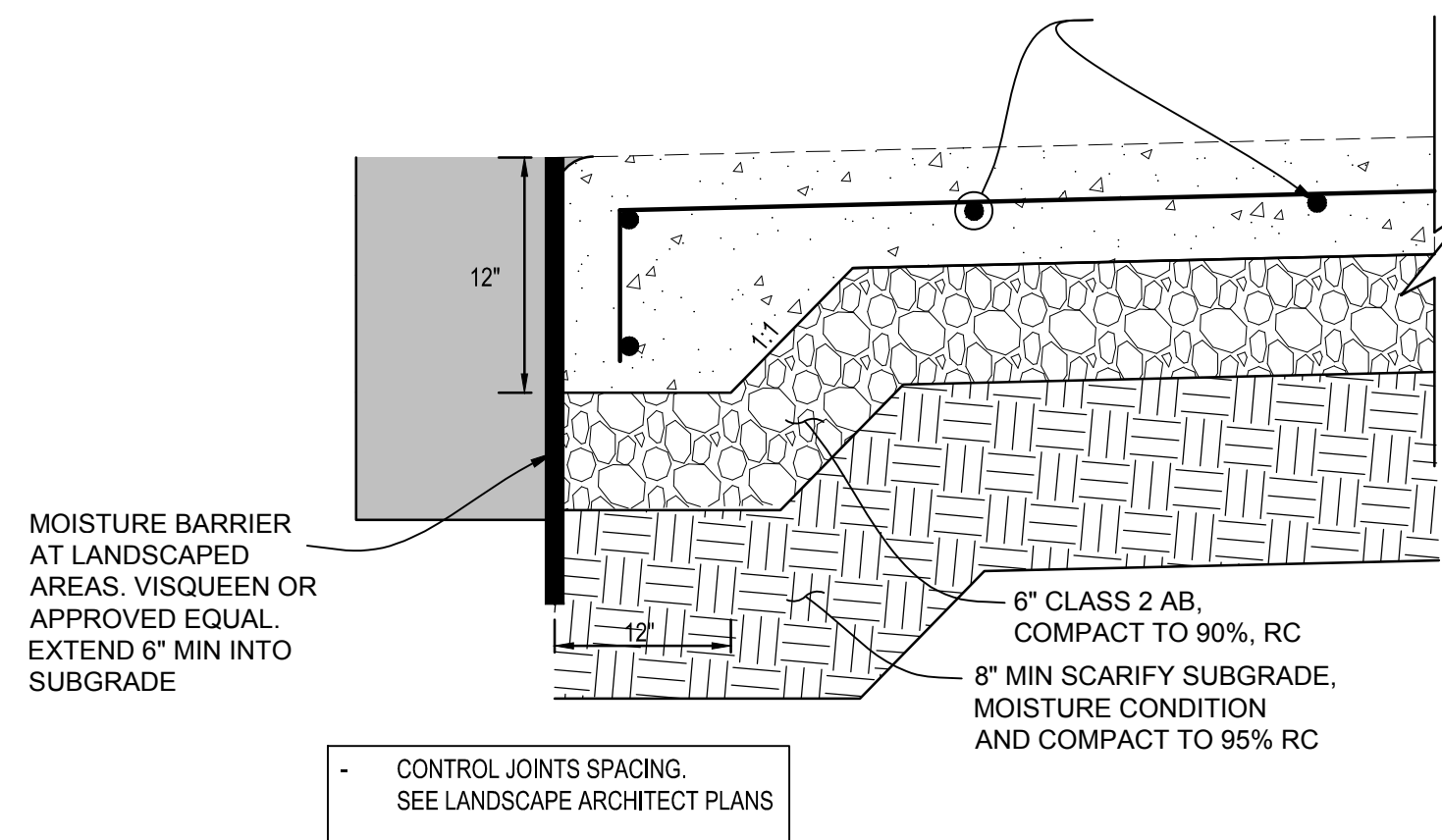
SCALE AS NOTED

C3.1
COPYRIGHT © 2021 HKIT ARCHITECTS

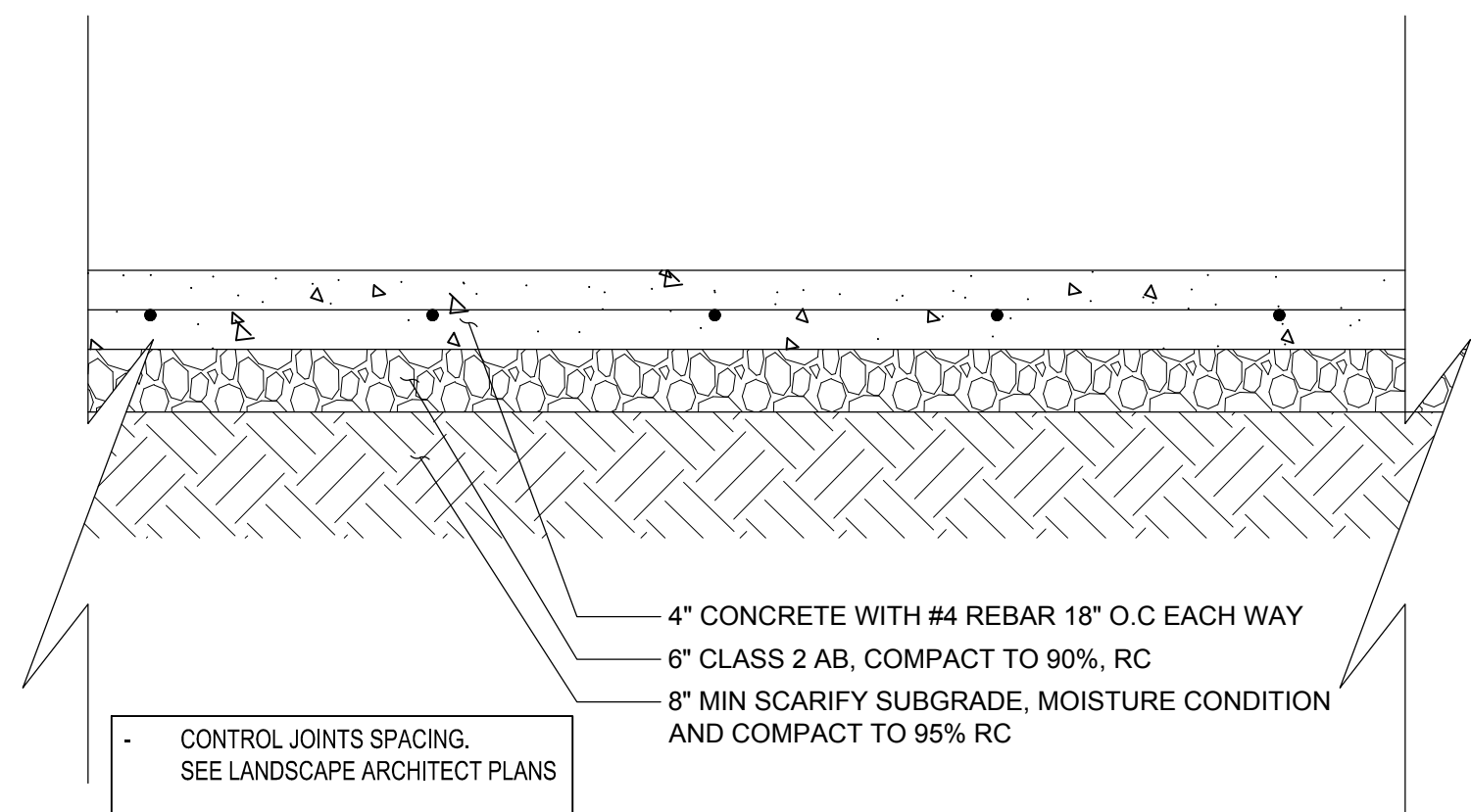


ASPHALT CONCRETE TABLE		
LOCATION	AC (IN)	CL2 AB (IN)
PLAYGROUND	3.0"	9"

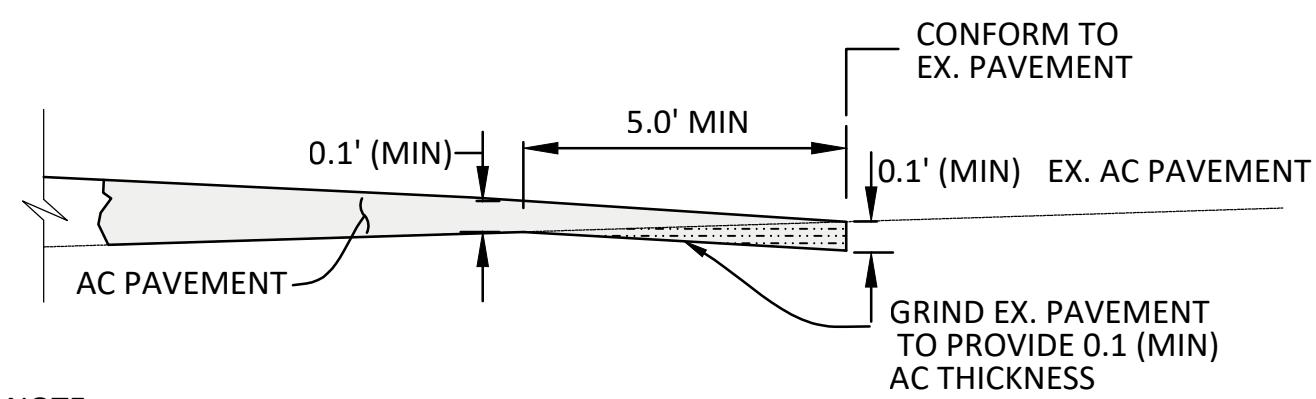
1 TYPICAL ASPHALT CONCRETE
SCALE: NTS



2 TYPICAL CONCRETE FLATWORK DEEPEDED EDGE
SCALE: NTS

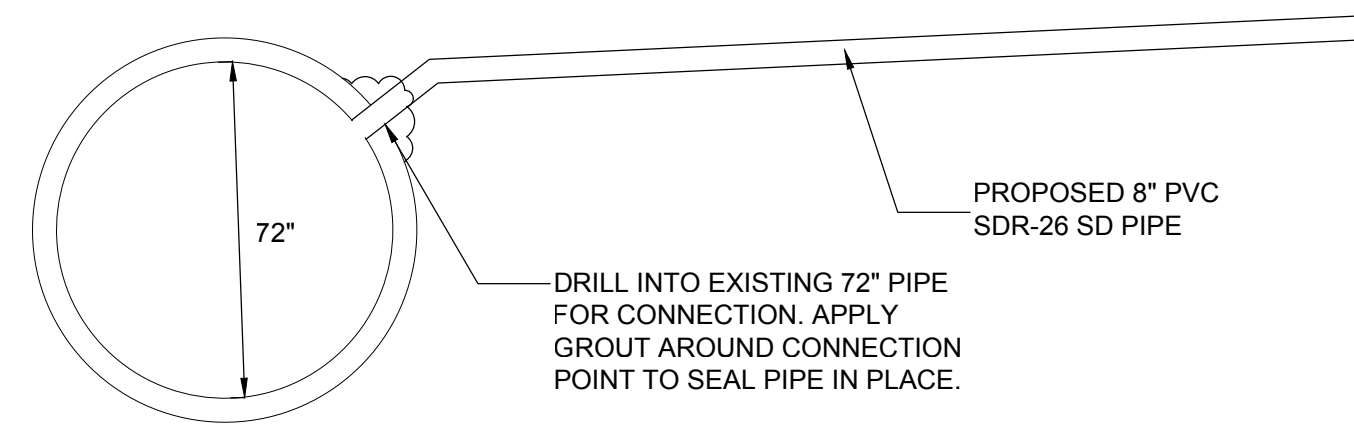


3 TYPICAL CONCRETE FLATWORK AT SIDEWALK
SCALE: NTS

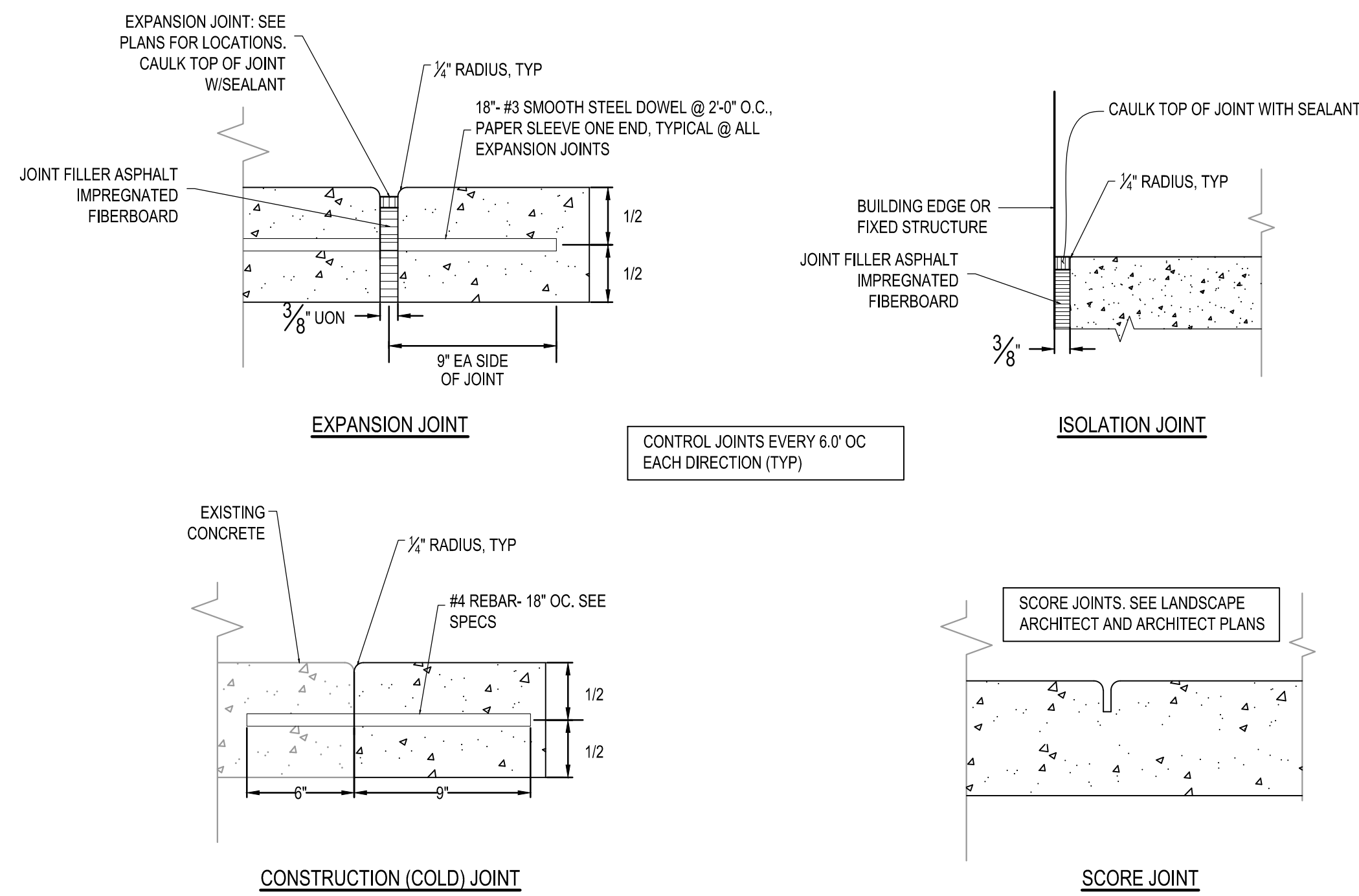


NOTE:
AT LOCATIONS WHERE THE PROPOSED GRADE IS 0.2' OR MORE ABOVE THE EXISTING ASPHALT SURFACE THE CONTRACTOR CAN OVERLAY INSTEAD OF REPLACING THE WHOLE PAVEMENT SECTION

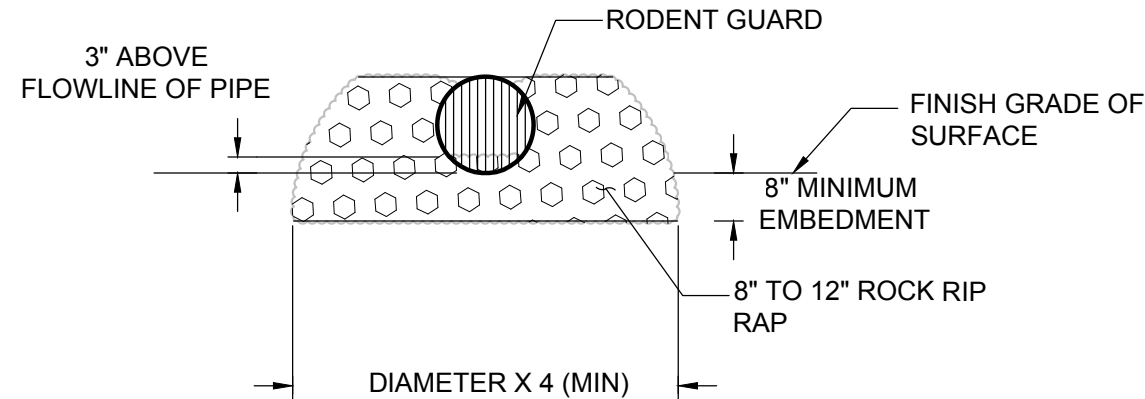
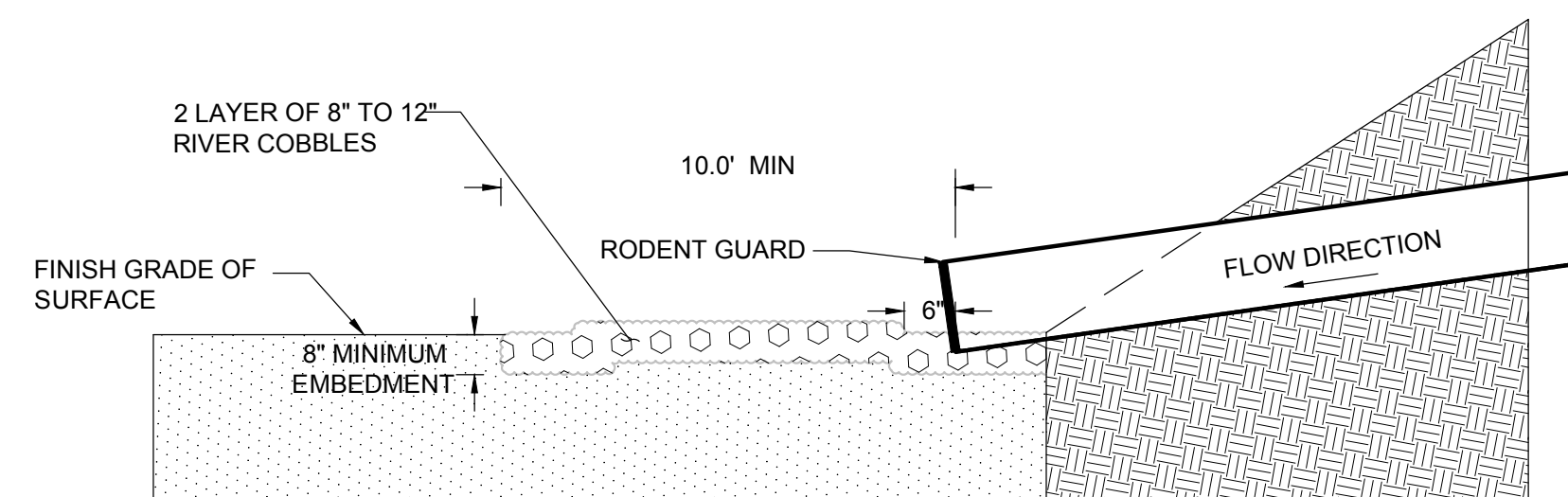
4 TIE IN PAVEMENT CONFORM
SCALE: NTS



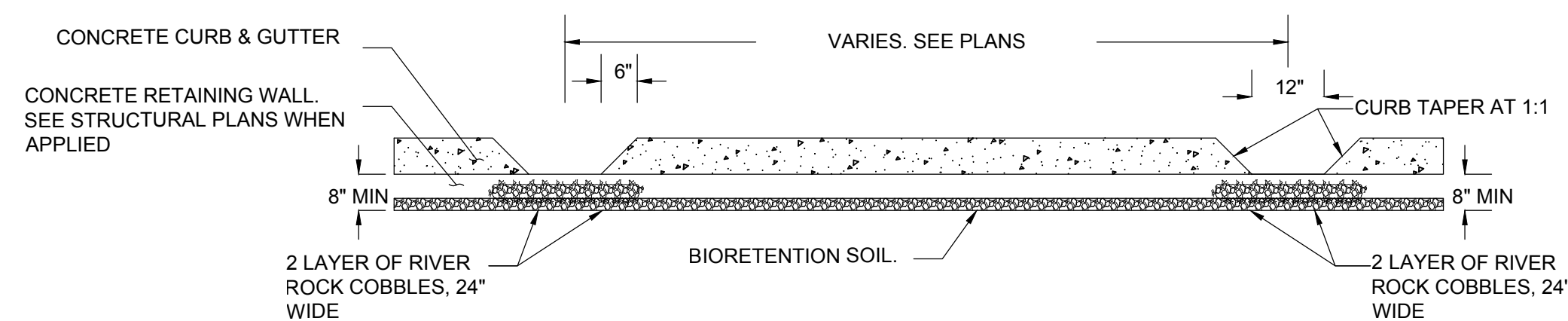
5 STORM DRAIN CONNECTION DETAIL
SCALE: NTS



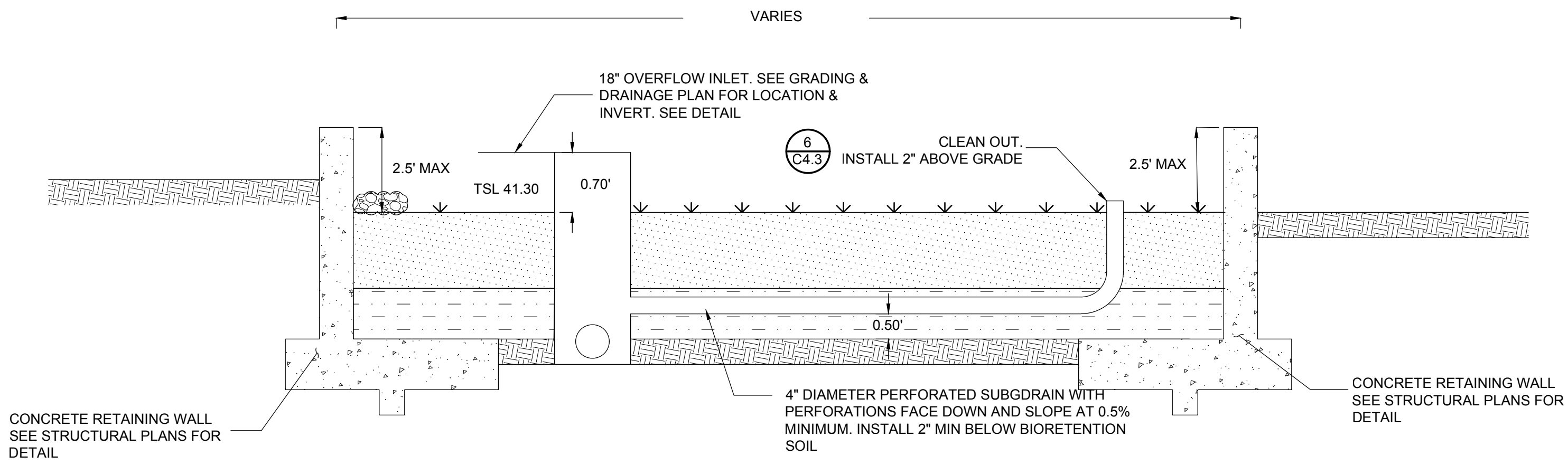
6 TYPICAL CONSTRUCTION JOINT
SCALE: NTS



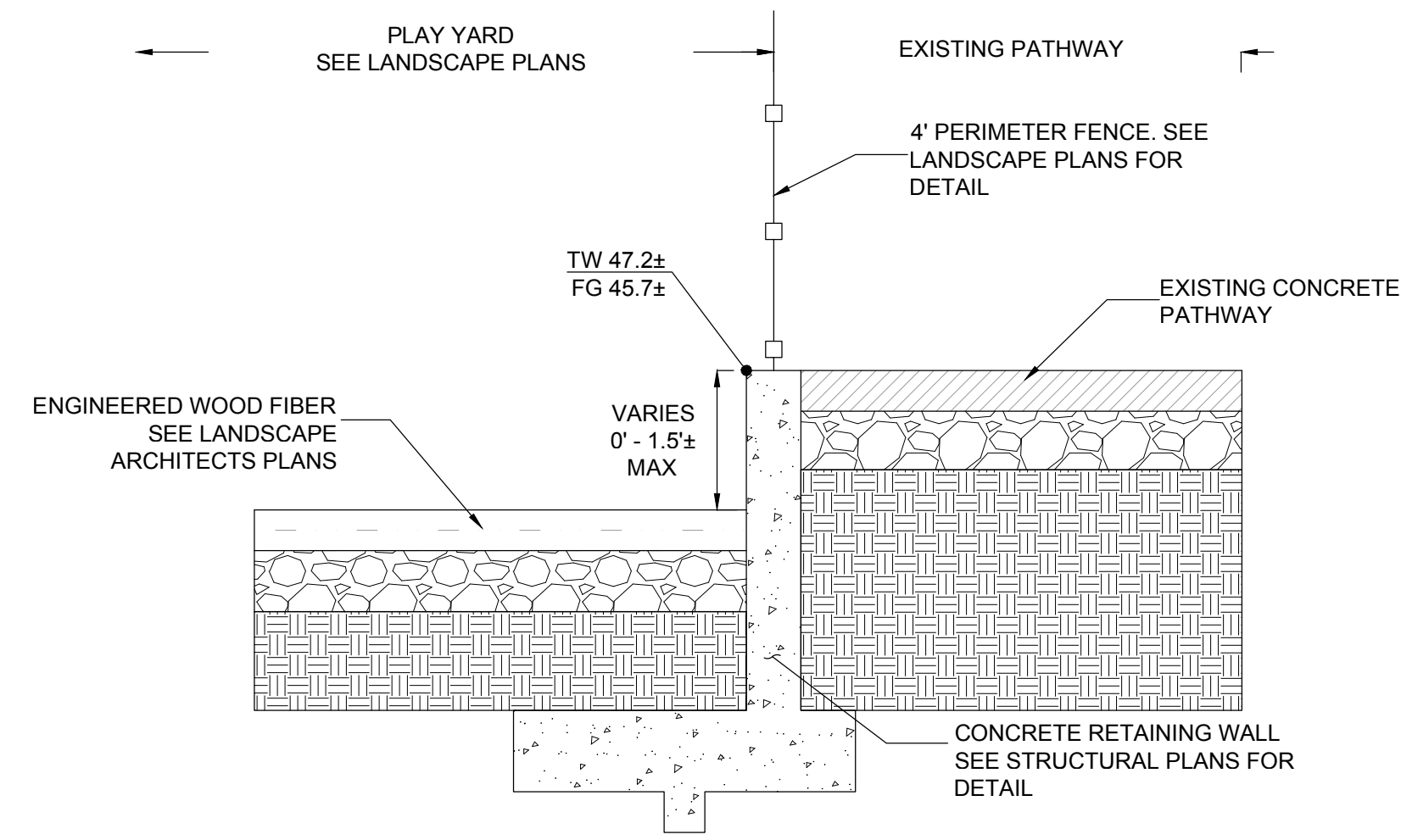
7 TYPICAL ROCK RIP-RAP
SCALE: NTS



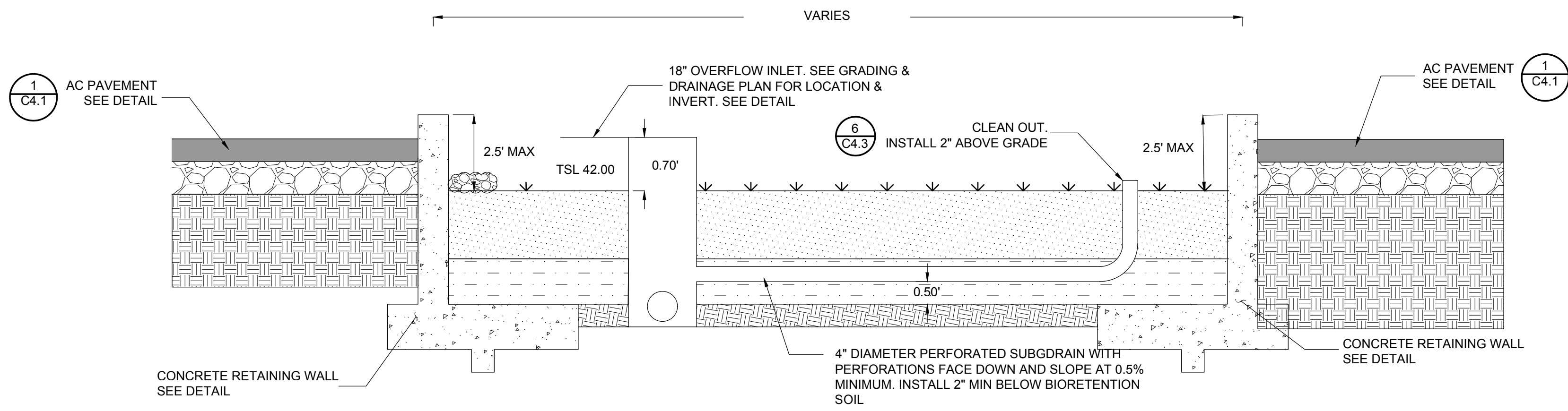
8 TYPICAL CURB OPENING
SCALE: NTS



SECTION A-A
SCALE: NTS



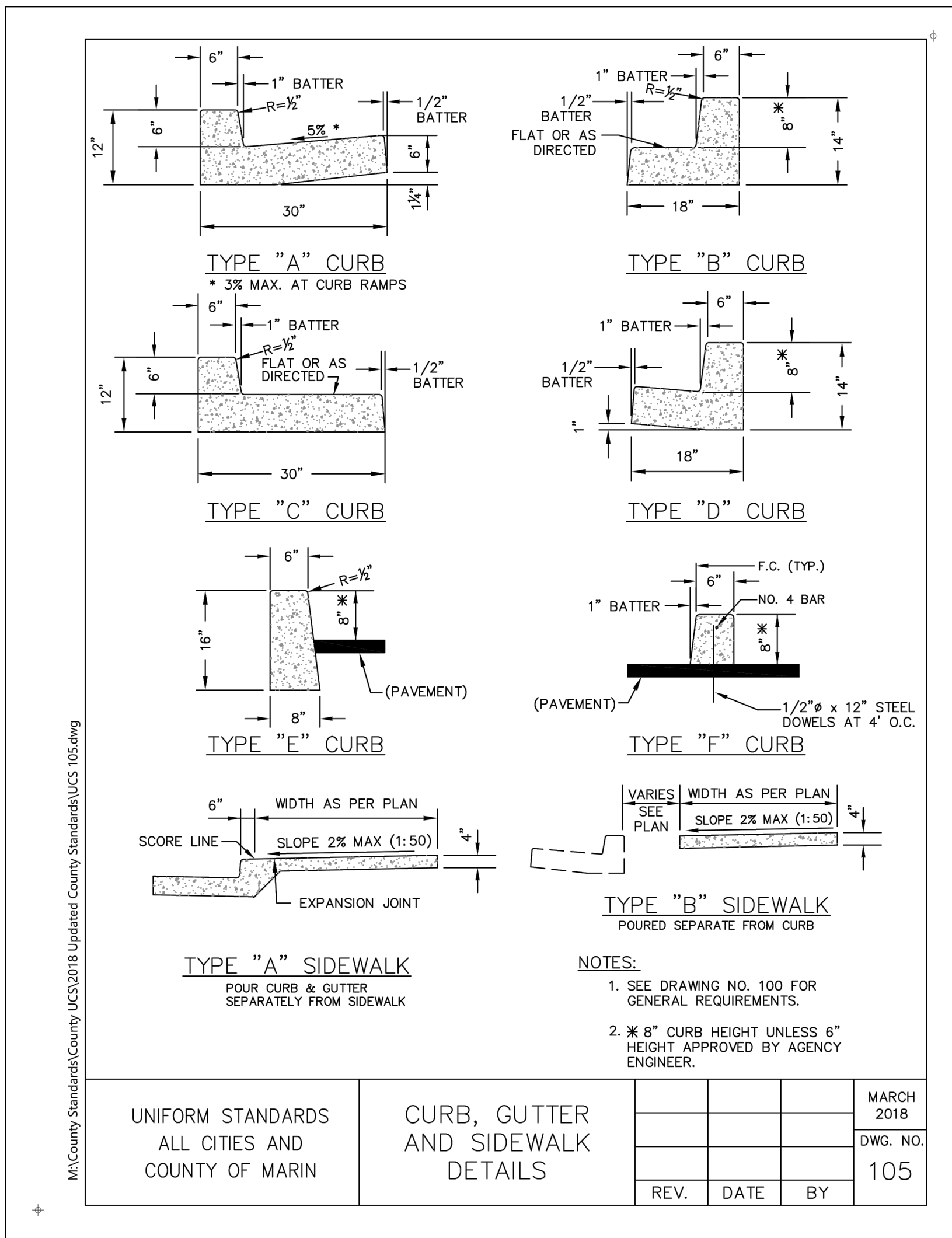
SECTION C-C
SCALE: NTS



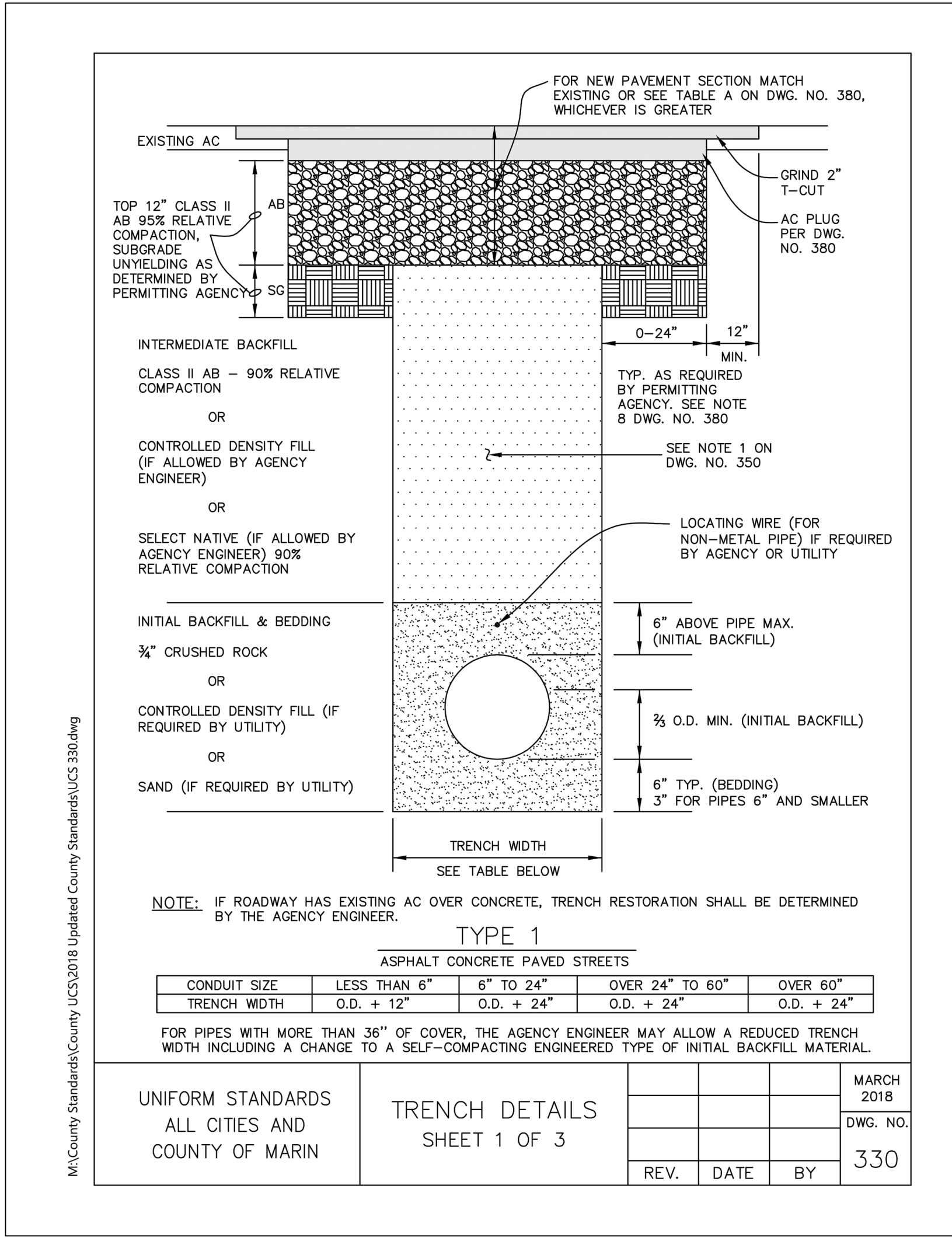
SECTION B-B
SCALE: NTS

LEGEND

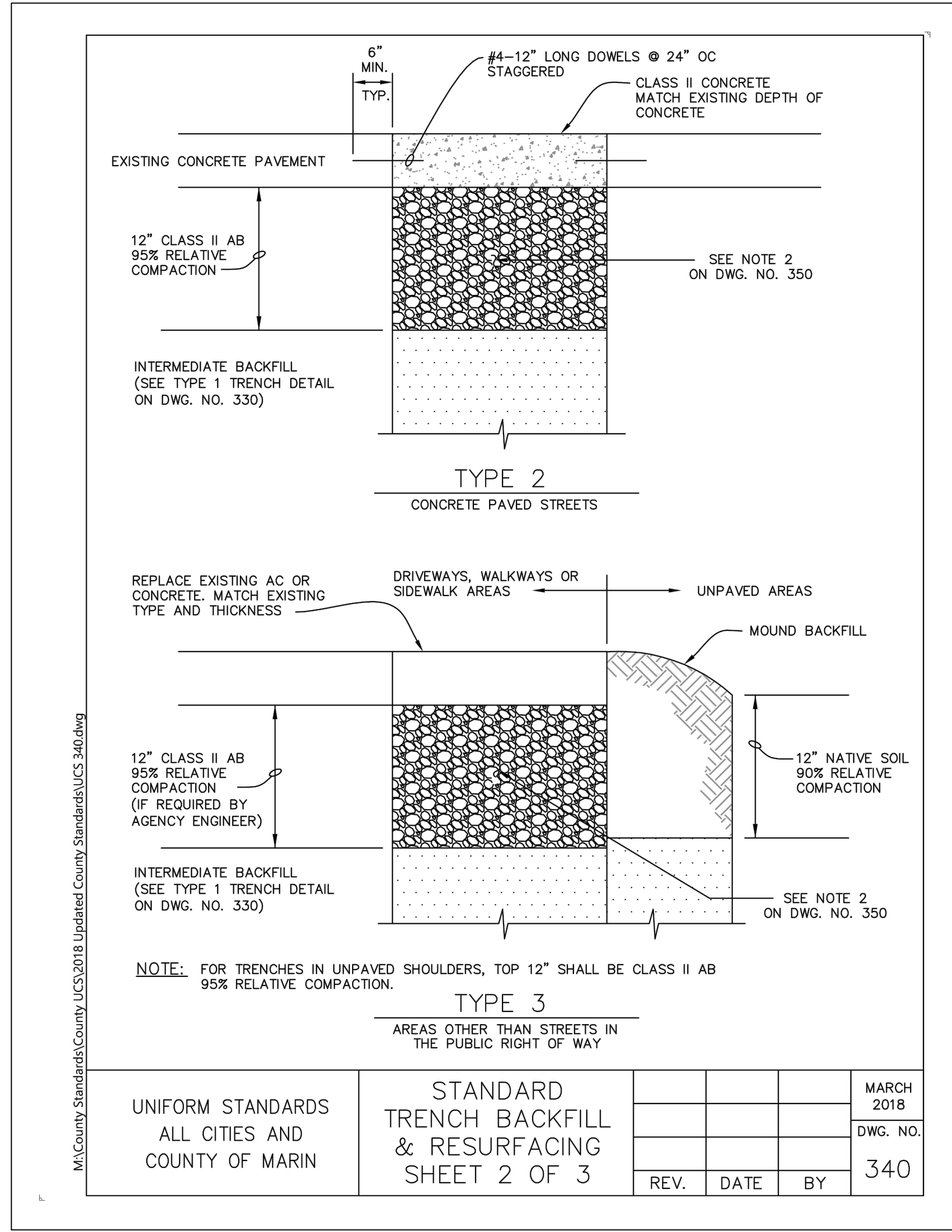
	PROPOSED ASPHALT CONCRETE. SEE DETAIL.	(1 C4.1)
	PROPOSED CONCRETE WALKWAY. SEE DETAIL.	(3 C4.2)
	CLASS 2 PERMEABLE MATERIAL	
	SUBGRADE	
	BIO-TREATMENT SOIL	



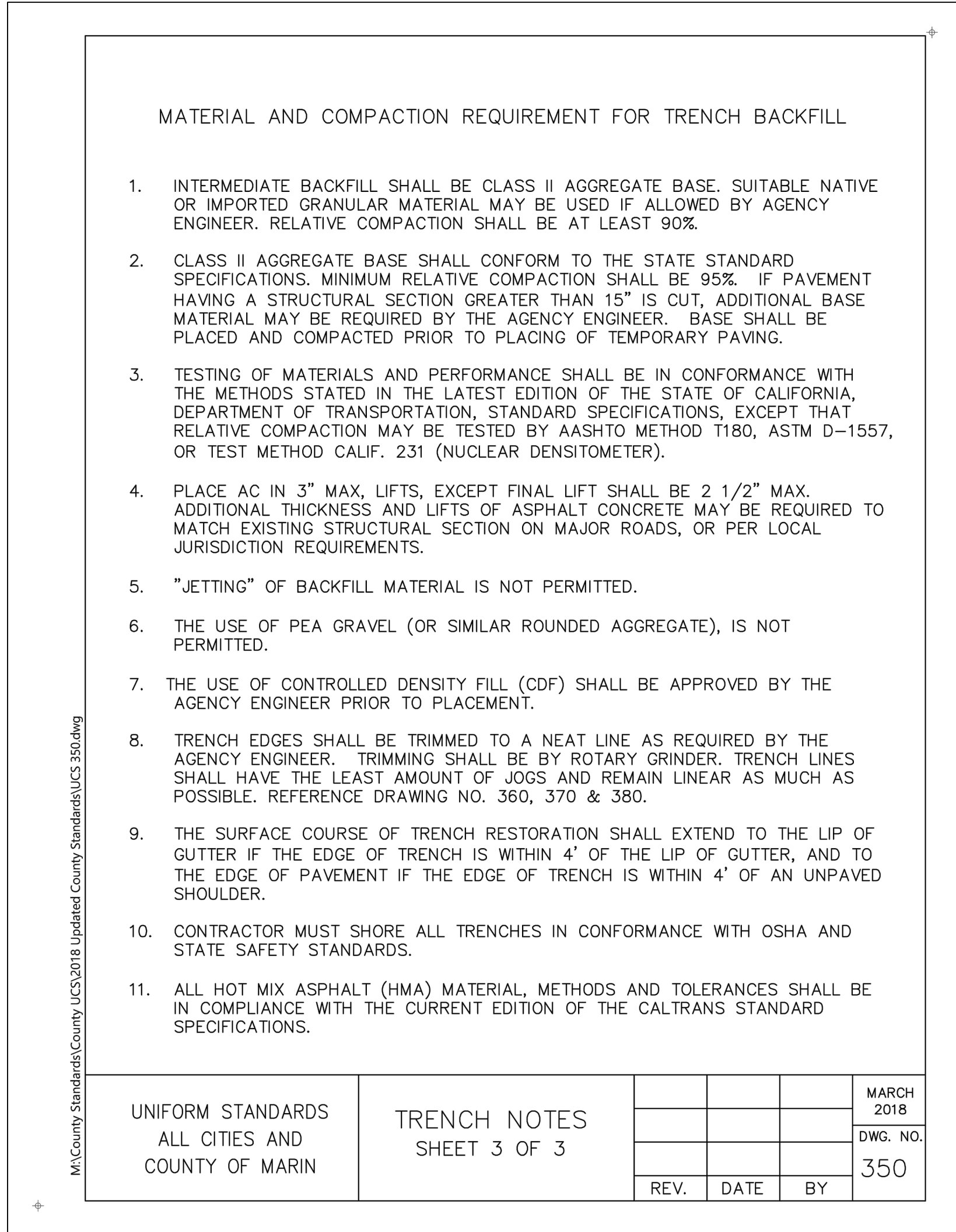
1 TYPICAL CURB, GUTTER, SIDEWALK DETAILS
SCALE: NTS



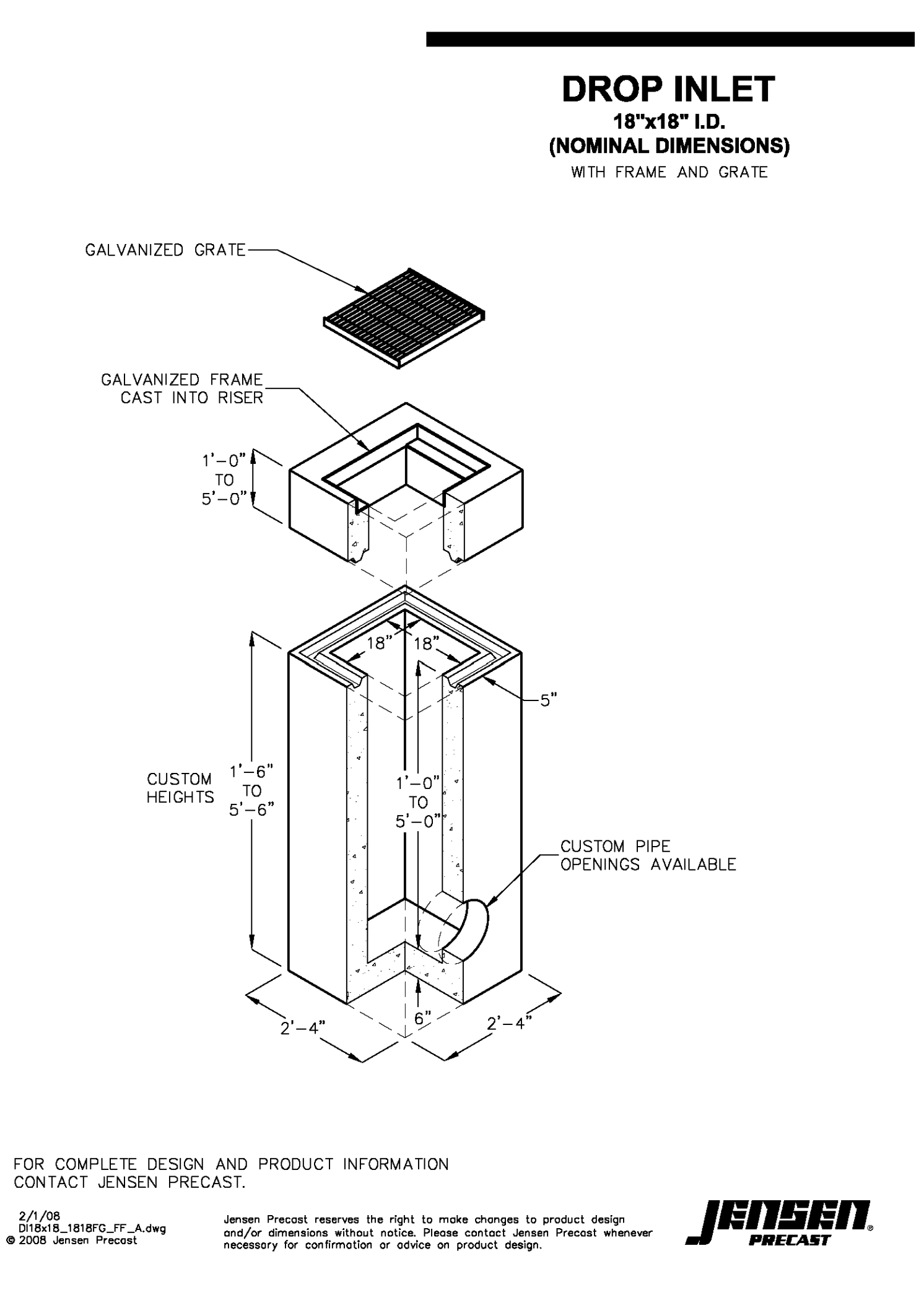
2 TRENCH DETAIL (1)
SCALE: NTS



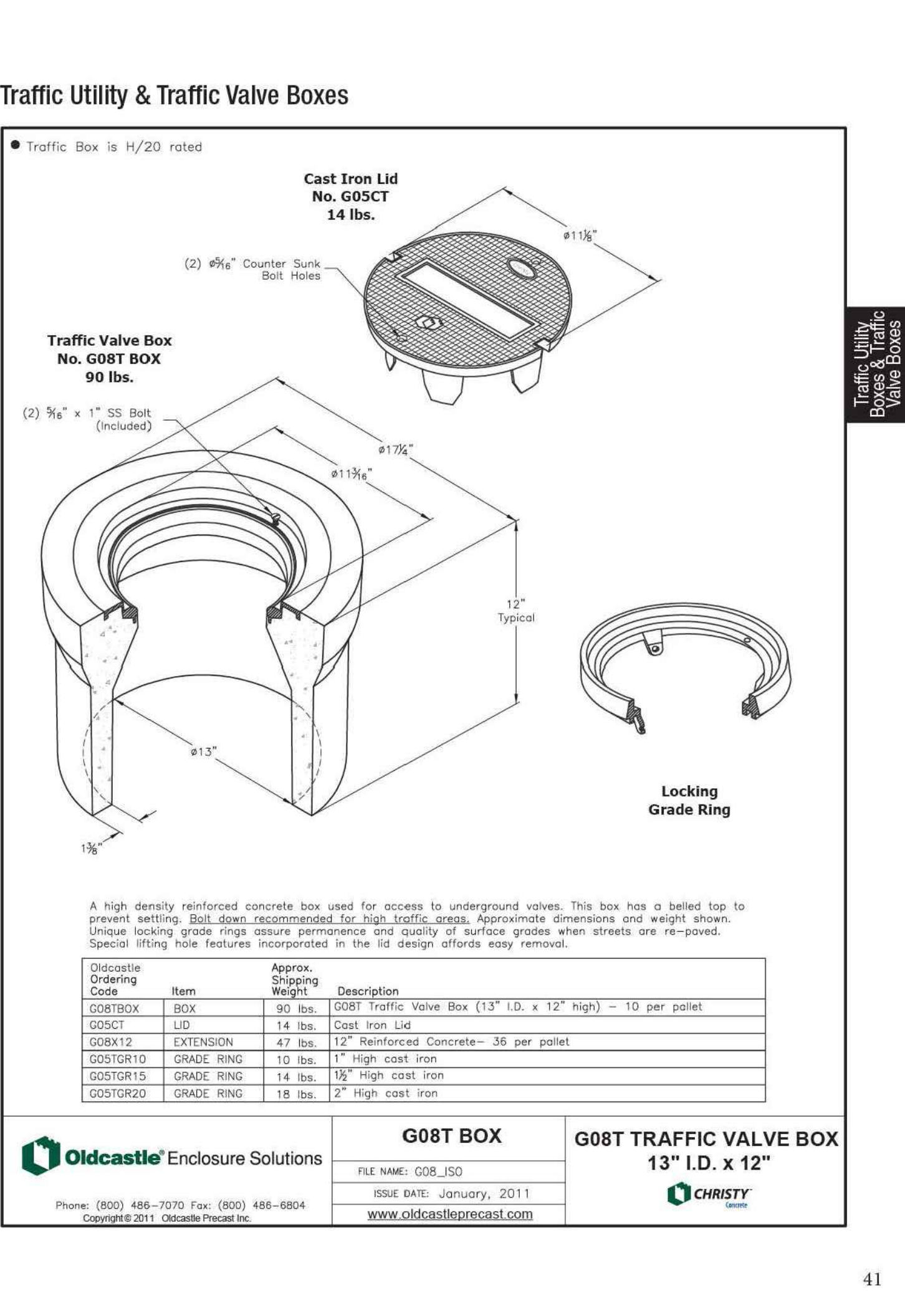
3 TRENCH DETAIL (2)
SCALE: NTS



4 TRENCH DETAIL(3)
SCALE: NTS

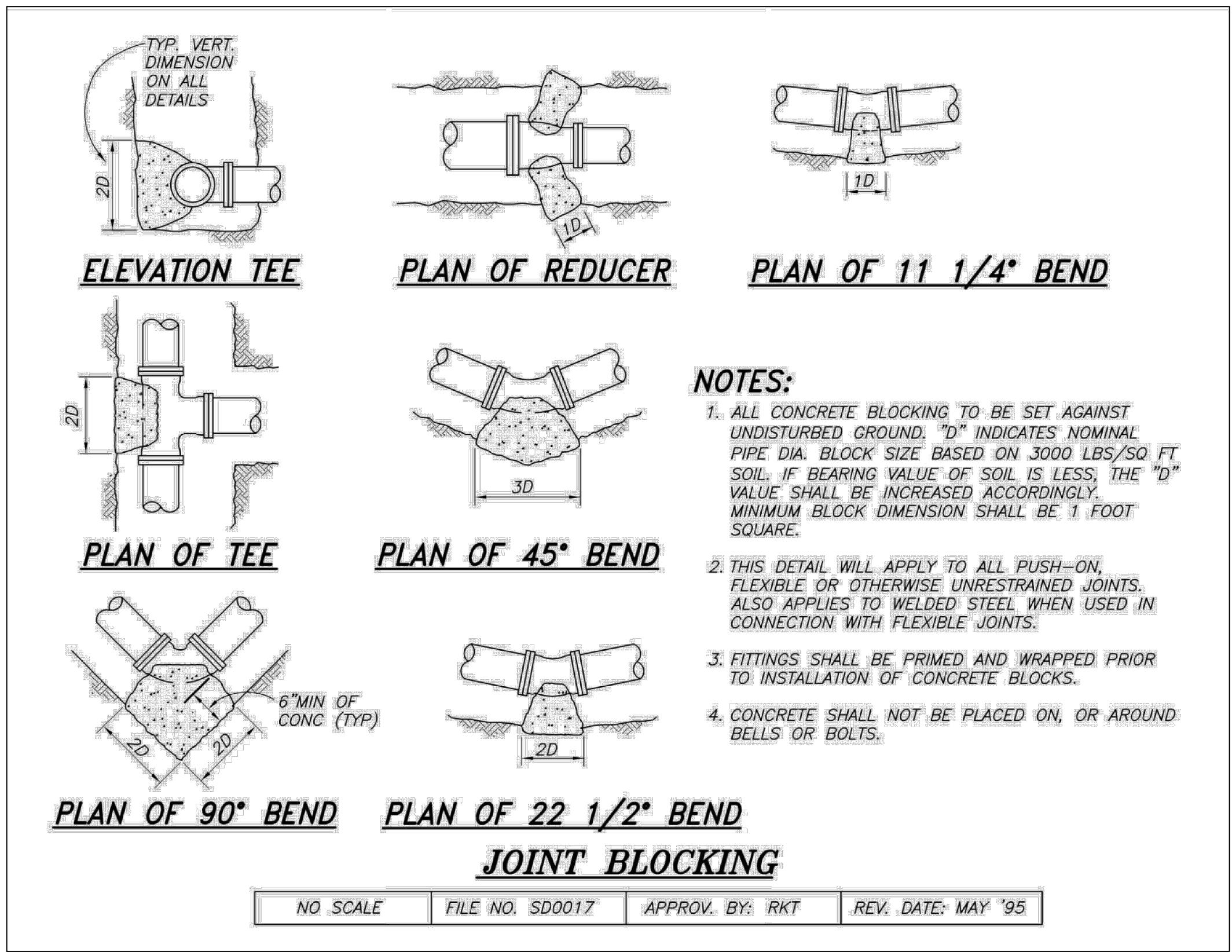


5 TYPICAL 18"x18" STORM DRAIN INLET
SCALE: NTS

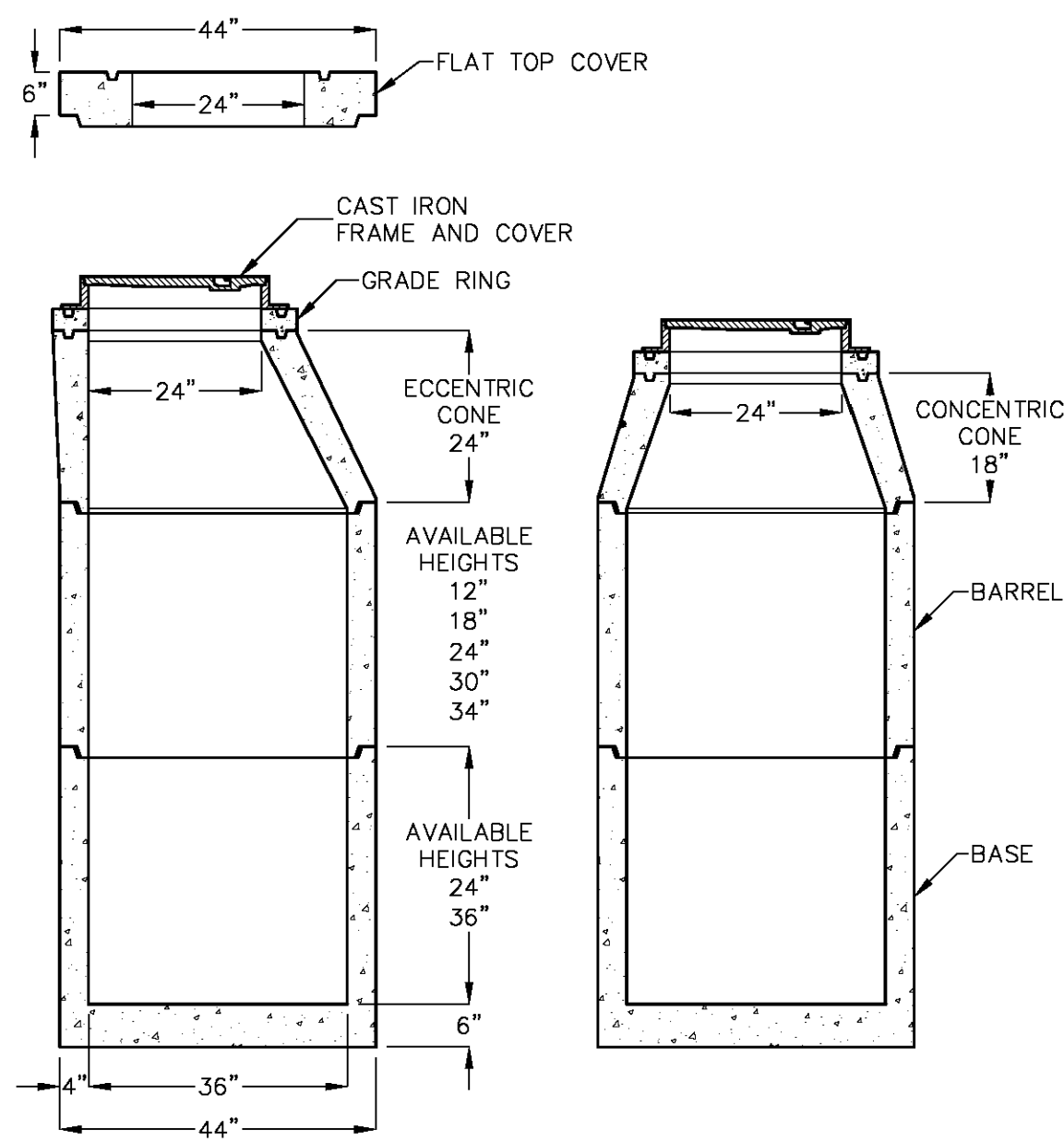


6 TYPICAL CLEANOUT BOX DETAIL
SCALE: NTS

36" I.D. x 4" WALL
COMPONENTS



1 TYPICAL THRUST BLOCK DETAILS
SCALE: NTS



MANHOLE COMPONENTS CONFORM TO CURRENT SPECIFICATIONS, ASTM C-478 AND AASHTO M199.
FLAT TOPS AND BASE SLABS ARE DESIGNED FOR AASHTO HS-20 WHEEL LOADING.
FOR COMPLETE DESIGN AND PRODUCT INFORMATION CONTACT JENSEN PRECAST.

Jensen Precast reserves the right to make changes to product design and/or dimensions without notice. Please contact Jensen Precast whenever necessary for confirmation or advice on product design.

8/22/2009
36_AW_COMPONENTS.B.DWG
©2008

JENSEN PRECAST

2 TYPICAL MANHOLE DETAIL
SCALE: NTS

COLEMAN ELEMENTARY KINDERGARTEN & PLAY GROUND YARDS & MULTI-USE BUILDING

SAN RAFAEL, CALIFORNIA

GENERAL NOTES

- THESE GENERAL NOTES SHALL APPLY TO ALL SHEETS CONTAINED IN THIS SET OF CONTRACT DOCUMENTS, UNLESS OTHERWISE NOTED.
- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF TITLE 24 OF THE CALIFORNIA ADMINISTRATIVE CODE, THE CALIFORNIA BUILDING CODE, AND ALL STATE AND LOCAL CODES.
- THE DRAWINGS AND SPECIFICATIONS DESCRIBE IN GENERAL THE QUALITY AND CHARACTER OF THE MATERIALS, SHAPE, AND CONFIGURATION OF IMPROVEMENTS AND THE DESIGN INTENT OF THE COMPLETED, INSTALLED WORK. MISCELLANEOUS ITEMS OF WORK, MATERIAL, EQUIPMENT, ETC., NECESSARY TO COMPLETE THE INSTALLATION SHALL BE PROVIDED BY THE CONTRACTOR WHETHER OR NOT MENTIONED IN THE SPECIFICATIONS OR SHOWN ON THE DRAWINGS. SPECIFIC NOTES AND DETAILS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
- PROJECT SUBMITTAL LIST: IT IS THE RESPONSIBILITY OF EACH CONTRACTOR TO READ AND UNDERSTAND THE REQUIREMENTS LISTED IN THE PLANS AND SPECIFICATIONS AND PROVIDE SUBMITTALS TO OWNER'S REPRESENTATIVE PER THE PROJECT SUBMITTAL LIST.
- CONTRACTOR SHALL COORDINATE ALL WORK WITH SUBCONTRACTORS, INCLUDING THOSE UNDER SEPARATE CONTRACT WITH THE OWNER. CONTRACTOR SHALL COORDINATE ALL WORK TO PREVENT CONFLICTS BETWEEN TRADES, AND REPORT CONFLICTS OR INCONGRUITIES BETWEEN PROPOSED IMPROVEMENTS AND/OR EXISTING FACILITIES TO THE LANDSCAPE ARCHITECT, OR OWNER'S REPRESENTATIVE, AS NECESSARY.
- CONTRACTOR IS RESPONSIBLE FOR CHECKING ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS FOR ACCURACY AND CONFIRMING THAT THE WORK IS BUILDABLE AS SHOWN BEFORE PROCEEDING WITH CONSTRUCTION. IF THERE ARE ANY QUESTIONS, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE LANDSCAPE ARCHITECT BEFORE PROCEEDING WITH THE WORK IN QUESTION OR RELATED WORK.
- CONTRACTOR SHALL NOT SCALE THE DRAWINGS. WRITTEN DIMENSIONS SHALL ALWAYS GOVERN. IF CONTRACTOR REQUIRES DIMENSIONS NOT NOTED, CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT FOR SUCH INFORMATION PRIOR TO PROCEEDING WITH WORK RELATED TO THOSE DIMENSIONS.
- ALL DIMENSIONS ARE TO FACE OF FINISH UNLESS OTHERWISE INDICATED OR NOTED.
- "ALIGN" AS USED IN THESE DOCUMENTS SHALL MEAN TO ACCURATELY LOCATE FINISH FACES IN THE SAME PLANE, UNLESS OTHERWISE INDICATED OR NOTED.
- "TYPICAL" OR "TYP" MEANS FOR ALL SIMILAR CONDITIONS, UNLESS OTHERWISE INDICATED OR NOTED.
- THE LOCATION OF EXISTING UTILITIES IS SHOWN IN AN APPROXIMATE WAY ONLY. IT SHALL BE THE DUTY OF THE CONTRACTOR TO MAKE EXACT DETERMINATIONS AS TO THE LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL NOT COMMENCE WORK UNTIL THOSE DETERMINATIONS HAVE BEEN MADE. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY FAILURE TO LOCATE AND PRESERVE ANY AND ALL UNDERGROUND FACILITIES. IF UTILITIES ARE DAMAGED DURING THE COURSE OF WORK, CONTRACTOR WILL RESTORE TO NEW CONDITION AT NO ADDITIONAL COST TO THE CLIENT. CALL UNDERGROUND SERVICE ALERT (USA) 1-800-227-2600, A MINIMUM OF 48 HOURS BEFORE ANY CONSTRUCTION OR EXCAVATION IN THIS AREA.
- ALL UTILITY CONNECTIONS AND/OR DISCONNECTIONS NECESSARY TO COMPLETE THE WORK SHALL BE PERFORMED IN SUCH MANNER AS TO MINIMIZE UTILITY SERVICE INTERRUPTIONS TO FACILITY OPERATIONS IN THE VICINITY OF CONSTRUCTION. COORDINATE ALL "DOWN TIME" WITH OWNER AND THE APPROPRIATE AGENCY. OBTAIN PRIOR APPROVAL FOR ANY INTERRUPTIONS OF BUILDING SERVICES, INCLUDING FIRE PROTECTION SYSTEMS, SECURITY SYSTEMS.
- CONTRACTOR SHALL PROVIDE ALL TOOLS, TRANSPORTATION, UTILITIES, TEMPORARY FACILITIES, AND OTHER SERVICES AS NECESSARY FOR PROPER EXECUTION OF THE WORK, AND ASSUME FULL RESPONSIBILITY FOR PROTECTION AND SAFEKEEPING OF THESE ELEMENTS DURING CONSTRUCTION. THE CONTRACTOR SHALL CONTACT THE OWNER'S REPRESENTATIVE FOR DESIGNATION OF THE MATERIAL STORAGE AREA AT THE JOB SITE.
- CONTRACTOR SHALL PROTECT EXISTING FACILITIES FROM DAMAGE. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER. BARRICADES, SIGNS, LIGHTS, ETC., REQUIRED FOR THE PROTECTION OF PUBLIC AND PERSONAL PROPERTY AND MATERIAL SHALL BE PROVIDED FOR AND MAINTAINED DURING CONSTRUCTION BY THE CONTRACTOR, AND SHALL CONFORM TO ALL GOVERNING CODES, ORDINANCES AND REGULATIONS. THE CONTRACTOR SHALL EMPLOY ALL MEANS NECESSARY TO CONTROL DUST AT AND NEAR THE SITE OF WORK AND ALONG APPROACH ROUTES TO THE CONSTRUCTION SITE.
- CONTRACTOR SHALL PROTECT EXISTING TREES AND VEGETATION TO REMAIN. PROVIDE PROTECTIVE FENCING OF EXISTING PLANTED AREAS AS REQUIRED BY LOCAL CODES AND PROJECT CONSTRUCTION SPECIFICATIONS.
- CONTRACTOR SHALL MAINTAIN "GOOD HOUSEKEEPING" PRACTICES AT THE JOB SITE. REMOVE EXCESS BUILDING MATERIALS AND DEBRIS PROMPTLY FROM THE JOB SITE AND DISPOSE OF AT AN APPROVED DUMPSITE. LEAVE THE JOB SITE "BROOM CLEAN." ALL MATERIALS SHALL BE STACKED OR PILED IN AN ORDERLY MANNER AT THE END OF EACH WORK DAY.
- BEFORE ACCEPTANCE BY THE OWNER'S REPRESENTATIVE, THE COMPLETED CONSTRUCTION SHALL BE CLEARED, ANY APPLICABLE LABELS REMOVED, ALL MARKS, STAINS, FINGERPRINTS, DUST, DIRT, SPATTERED PAINT AND BLEMISHES REMOVED AND ALL OTHER TOUCH-UP WORK COMPLETED. ALL FINISH MATERIALS SHALL BE PROTECTED AT ALL TIMES AGAINST SUBSEQUENT DAMAGE UNTIL FINAL ACCEPTANCE BY THE OWNER'S REPRESENTATIVE.
- WASTEWATER GENERATED DURING CONSTRUCTION SHALL NOT BE DISCHARGED TO THE STORM DRAIN SYSTEM. THIS INCLUDES WASTE FROM PAINTING, SAWCUTTING, CONCRETE WORK, ETC. THE CONTRACTOR SHALL MAKE ARRANGEMENTS TO ELIMINATE DISCHARGE TO THE STORM DRAIN SYSTEM AND, IF NECESSARY, PROVIDE AN AREA FOR ON SITE WASHING ACTIVITIES DURING CONSTRUCTION. MATERIALS THAT COULD CONTAMINATE STORM RUNOFF SHALL BE STORED IN AREAS WHICH ARE DESIGNATED TO PREVENT EXPOSURE TO RAINFALL AND NOT ALLOW STORM WATER TO RUN ONTO THE AREA.
- FLUSHING OF STREETS AND PARKING LOTS TO REMOVE DIRT AND CONSTRUCTION DEBRIS IS PROHIBITED UNLESS PROPER SEDIMENT CONTROLS ARE USED. PREFERABLY, AREAS REQUIRING CLEANING SHOULD BE SWEEPED.
- IF PAVING, STORM DRAIN, AND PLANTING IMPROVEMENTS ARE NOT COMPLETED BY 10/15, CONTRACTOR SHALL PROVIDE TEMPORARY SILT AND DRAINAGE CONTROLS. FACILITIES SHALL BE INSTALLED TO CONTROL AND OBTAIN EROSION-CAUSED SILT DEPOSITS AND TO PROVIDE FOR SAFE DISCHARGE OF STORM WATERS INTO EXISTING STORM WATER FACILITIES. DESIGN OF THESE FACILITIES MUST BE APPROVED IN ACCORDANCE WITH THE GOVERNING AUTHORITIES.
- CONTRACTOR SHALL SUBMIT SAMPLES OF ALL FINISHES, COLORS, AND PAVING MATERIALS TO THE LANDSCAPE ARCHITECT FOR WRITTEN APPROVAL BEFORE PROCEEDING WITH WORK. CONTRACTOR SHALL SUBMIT LEGIBLE SHOP DRAWINGS AND CUT SHEETS FOR ALL SITE FURNITURE AND ITEMS NOT SPECIFICALLY DETAILED.
- EQUIPMENT AND DEVICES SHALL BE NEW, UNLESS OTHERWISE NOTED.
- CONTRACTOR TO PROVIDE FIELD LAYOUT FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE, PRIOR TO INSTALLATION OF ALL HARDSCAPE AND PLANTING OR OTHER SOFTSCAPE. IN THE ABSENCE OF THIS APPROVAL, CONTRACTOR SHALL BEAR THE RESPONSIBILITY OF ALL COSTS FOR CHANGES.
- IN ADDITION TO THESE DRAWINGS, REFER TO STANDARD SPECIFICATIONS AND PLANS.

ABBREVIATIONS

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
BC	BOTTOM OF CURB	MAX	MAXIMUM
BW	BOTTOM OF WALL	MIN	MINIMUM
BS	BOTTOM OF STEP	(N)	NEW
C	CONDUIT	NIC	NOT IN CONTRACT
CB	CATCH BASIN	NTS	NOT TO SCALE
CLR	CLEAR	OC	ON CENTER
DG	DECOMPOSED GRANITE	OD	OUTSIDE DIAMETER
DI	DRAIN INLET	(P)	PROPOSED
DIA	DIAMETER	PA	PLANTING AREA
DWG	DRAWING	PSI	POUNDS PER SQUARE INCH
EA	EACH	PVC	POLYVINYL CHLORIDE
ELEC	ELECTRIC	R	RADIUS
(E)	EXISTING	RP	RADIUS POINT
EJ	EXPANSION JOINT	RIM	RIM ELEVATION
EQ	EQUAL	SAD	SEE ARCHITECT DRAWINGS
FT	FEET	SCD	SEE CIVIL DRAWINGS
FG	FINISH GRADE	SSD	SEE STRUCTURAL DRAWINGS
FH	FIRE HYDRANT	SCH	SCHEDULE
G	GAS	SD	STORM DRAIN
GA	GAUGE	SJ	SCORE JOINT
GALV	GALVANIZED	STL	STEEL
GPH	GALLONS PER HOUR	TC	TOP OF CURB
GPM	GALLONS PER MINUTE	TR	TOP OF RAILING
IN KIND	TO MATCH EXISTING	TP	TOP OF PAVEMENT
INV	INVERT	TS	TOP OF STEP
HD	HOT DIPPED	TW	TOP OF WALL
HP	HIGH POINT	TYP	TYPICAL
HT	HEIGHT	UON	UNLESS OTHERWISE NOTED
LOW	LIMIT OF WORK	VIF	VERIFY IN FIELD
		W/	WITH

SYMBOLS



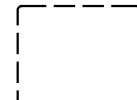
DETAIL CALL OUT NUMBER
SHEET REFERENCE



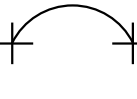
SECTION ELEVATION
SHEET REFERENCE



REVISION



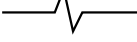
ENLARGED



FLUSH



ALIGN



BREAKLINE



CENTER LINE



PROPERTY LINE



SETBACK LINE



LIMIT OF WORK

LANDSCAPE ARCHITECT REQUIRED REVIEW LIST

- REVIEW SITE LAYOUT
- REVIEW BACKFLOW, MAINLINES, AND VALVES PRIOR TO COVER (IRRIGATION SUBCONSULTANT)
- REVIEW MOCKUPS - SEE MATERIALS SCHEDULE FOR REQUIRED MOCKUPS.
- REVIEW FORMING OF VERTICAL ELEMENTS PRIOR TO HARDSCAPE INSTALLATION
- REVIEW PLANTS, AND PLANT LAYOUT PRIOR TO INSTALLATION
- REVIEW OF PROJECT, FINAL PUNCH WALK (ALL DISCIPLINES)



INDEX OF DRAWINGS

SHEET NO.	SHEET TITLE
L0.0	LANDSCAPE COVER SHEET
L1.0	LANDSCAPE KEY MAP
L2.0	SITE MATERIALS SCHEDULE
L2.1	SITE PLAN - KINDERGARTEN PLAY YARD
L2.2	SITE PLAN - PLAY YARD & PLAY GROUND
L2.3	SITE SECTIONS
L2.4	STEEL HEADER DIAGRAMS
L3.0	LAYOUT PLAN - KINDERGARTEN PLAY YARD
L3.1	LAYOUT PLAN - PLAY YARD & PLAY GROUND
L3.2	LAYOUT PLAN SCORE - KINDERGARTEN PLAY YARD
L4.0	PLANTING NOTES
L4.1	PLANTING PLAN - KINDERGARTEN PLAY YARD
L4.2	PLANTING PLAN - PLAY YARD & PLAY GROUND
L4.4	PLANTING DETAILS
L5.0	IRRIGATION LEGEND AND NOTES
L5.1	IRRIGATION PLAN
L5.2	IRRIGATION DETAILS
L5.3	WATER USE CALCULATIONS
L7.0	CONSTRUCTION DETAILS (1)
L7.1	CONSTRUCTION DETAILS (2)
L7.2	CONSTRUCTION DETAILS (3)
L7.3	CONSTRUCTION DETAILS (4)
L7.4	CONSTRUCTION DETAILS (5)
L7.5	CONSTRUCTION DETAILS (6)
L7.6	CONSTRUCTION DETAILS (7)
L7.7	CONSTRUCTION DETAILS (8)
L7.8	CONSTRUCTION DETAILS (9)
L7.9	CONSTRUCTION DETAILS (10)

HKITARCHITECTS

538 NINTH STREET SUITE 240 • OAKLAND, CA 94607
T 510 625 9800 • F 510 625 9801 • WWW.HKIT.COM



Jane Sedonaen, Landscape Architect



INTEGRATED
DESIGN
STUDIO
INC

227 Flamingo Road
Mill Valley, CA 94941
Ph 415-381-9500

www.integrateddesignstudio.com

COLEMAN
ELEMENTARY
KINDERGARTEN
PLAY YARD AND
PLAY GROUND
MODERNIZATION

SAN RAFAEL, CA

JOB NO. 23007

DRAWN SG/AS

CHECKED

JOB CAPTAIN

DATE

100% DSA SUBMITTAL 10/01/24

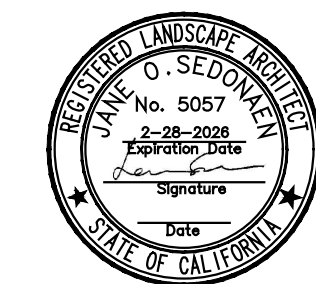
DRAWING TITLE

LANDSCAPE
COVER SHEET

SCALE AS NOTED

L0.0

COPYRIGHT © 2021 HKIT ARCHITECTS



Jane Sedonaen, Landscape Architect



**INTEGRATED
DESIGN
STUDIO
INC.**
227 Flamingo Road
Mill Valley, CA 94941
Ph 415-351-9500
www.integrateddesignstudio.com

COLEMAN
ELEMENTARY
KINDERGARTEN
PLAY YARD AND
PLAY GROUND
MODERNIZATION
SAN RAFAEL, CA

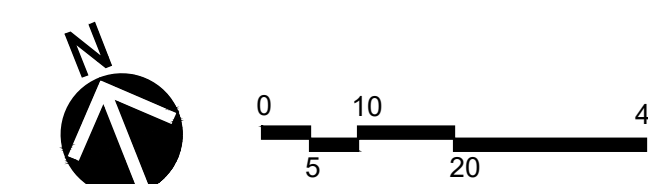
JOB NO. 23007
DRAWN SG/AS
CHECKED
JOB CAPTAIN
DATE
100% DSA SUBMITTAL 10/01/24

DRAWING TITLE
**LANDSCAPE
KEY MAP**

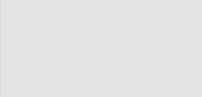
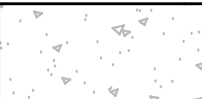



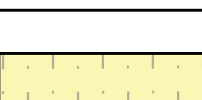
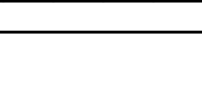





SCALE AS NOTED

L1.0



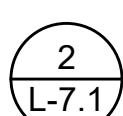
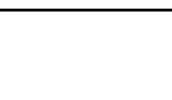
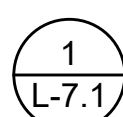

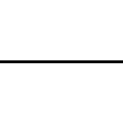
COPYRIGHT © 2021 HKIT ARCHITECTS



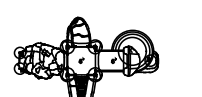
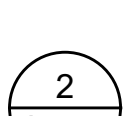
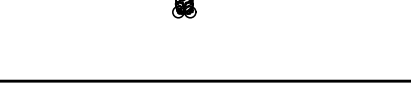
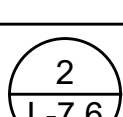


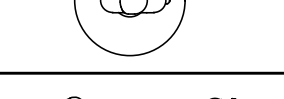
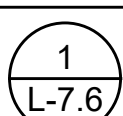

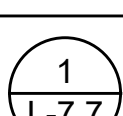
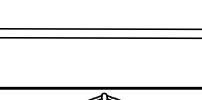
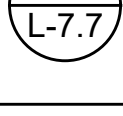
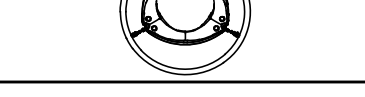
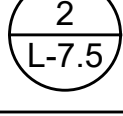




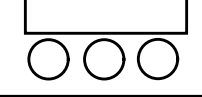

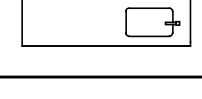
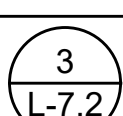
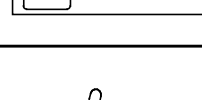

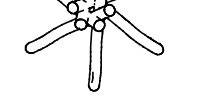
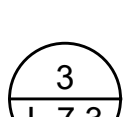

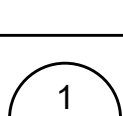
SITE MATERIAL SCHEDULE

SYMBOL	DESCRIPTION	SPEC/COLOR	FINISH	SIZE	PATTERN	MFR/SUPPLIER	DETAILS	NOTES
	ASPHALT PAVING	BLACK	SCD	PER PLAN, SCD	N/A	STREETBOND	SCD	DURASHIELD ADDED TO ALL BLACK ASPHALT
	CAST-IN-PLACE CONCRETE	CONCRETE/ ADD LAMP BLACK, SEE NOTES	TOPCAST	PER PLAN, SCD	N/A	GC	SCD	ONE POUND (PINT) OF LIQUID LAMP BLACK PER CUBIC YARD OF CONCRETE FLATWORK
	CAST-IN-PLACE CONCRETE CURB	CONCRETE/ ADD LAMP BLACK, SEE NOTES	TOPCAST	PER PLAN, SCD	N/A	GC	SCD	ONE POUND (PINT) OF LIQUID LAMP BLACK PER CUBIC YARD OF CONCRETE FLATWORK
	CAST-IN-PLACE CONCRETE BAND	CONCRETE/ NATURAL	TOPCAST	PER PLAN, SCD	N/A	GC	SCD	
	GRAVEL	N/A	LOOSE	N/A	N/A	N/A	SCD	USE EXISTING PEA GRAVEL, SCD FOR DRAINAGE
	POURED IN PLACE RUBBER	PLAYBOUND POURED-IN-PLACE / TBD	EPDM & URETHANE	PER PLAN	N/A	SURFACE AMERICA	N/A	INSTALL PER MANUFACTURER
	ARTIFICIAL TURF	ULTRA LAWN/ GREEN	PRIMARY: POLYETHYLENE XP SLIT FILM SECONDARY: HEAT SET TEXTURED NYLON MONOFILAMENT	BLADE HEIGHT: 1-5/8" TUFTING GAUGE: 3/8"	N/A	FOREVER LAWN	N/A	INSTALL PER MANUFACTURER. EDGING TBD
	LAWN	N/A	N/A	PER PLAN	N/A	LOCALLY SOURCED	N/A	(E) LAWN TO REMAIN, RESEED AS NEEDED
	ENGINEERED WOOD FIBER	N/A	N/A	PER PLAN	N/A	SHAMROCK MATERIALS	N/A	LOCALLY SOURCED
	PAINTED ASPHALT	SB120 (COLORED SURFACE) & SB150 PAVEMENT COATING (STRIPING) / SAFETY ORANGE, YELLOW, BLUE & WHITE	PAINTED	PER PLAN	N/A	STREETBOND	N/A	HEAT RESISTANT PAINT FOR TRICYCLE TRACK & RUNNING TRACK. IDS TO PROVIDE DESIGN FOR MURAL & ASPHALT LOCATIONS
	CHALKBOARD	OUTDOOR CHALKBOARD (2) W/ PAINTED FRAME: BLUE	N/A	96" W X 36" H	N/A	BILLY BOARDS	N/A	WALL MOUNTED
	EDGING	ROLL TOP DURAEDGE / BLACK	STEEL	14 GAUGE X 6" DEEP		JD RUSSELL CO.		INSTALL AT PLANTING AREAS AND WHERE POUR IN PLACE RUBBER MEET (N) ASPHALT
	MULCH	NATURAL ARBOR MULCH	N/A	N/A	N/A	SHAMROCK MATERIALS		ALL LANDSCAPE AREAS TO HAVE 3" DEEP MULCH
	MURAL		PAINTED	6' H MAX X 54' L (E) BLDG WALLS	N/A	LOCAL ARTIST TO PAINT DETAIL PROVIDED BY IDS		IDS TO PROVIDE DESIGN FOR MURAL/ASPHALT INTERACTIVE WALL


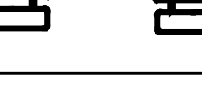
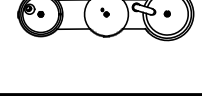
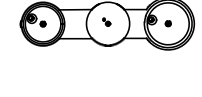
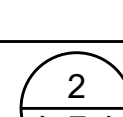


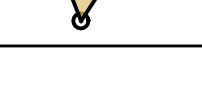
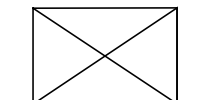
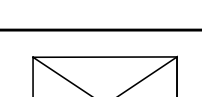
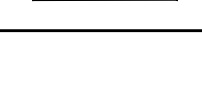
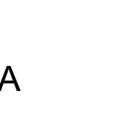
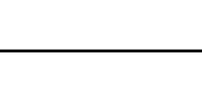

WALLS, FENCES AND GATES SCHEDULE

SYMBOL	DESCRIPTION	SPEC/COLOR	FINISH	SIZE	PATTERN	MFR/SUPPLIER	DETAILS	NOTES
	SEAT WALL	CONCRETE/ NATURAL	SMOOTH	SCD	PER PLAN	N/A	SCD	CONTRACTOR TO PROVIDE SEALER FOR SUBMITTAL & APPROVAL. EDGES TO HAVE 1/2" RADIUS
	KINDER FENCE	CHAINLINK /BLACK	CLASS 2B POLYOLEFIN OVER GALVANIZED FABRIC	4' HIGH	1" X 1"	MASTER HALCO		MAX 2" CLEAR OFF BUILDING
	GATE- PEDESTRIAN DOUBLE SWING	CHAINLINK/BLACK	CLASS 2B POLYOLEFIN OVER GALVANIZED FABRIC	(2) 3' WIDE X 4' HIGH	1" X 1"	MASTER HALCO		INSTALL PER MANUFACTURER SPECIFICATIONS
		CANE BOLT: 18"	N/A	N/A	N/A	FENCE SUPPLY CO	PER MANUFACTURE	ALL HARDWARE IS TO BE CONFIRMED WITH DISTRICT PRIOR TO ORDERING
	GATE - PEDESTRIAN SINGLE SWING	CHAINLINK /BLACK	CLASS 2B POLYOLEFIN OVER GALVANIZED FABRIC	3' WIDE x 4' HIGH	1" X 1"	MASTER HALCO		INSTALL PER MANUFACTURER SPECIFICATIONS
		PANIC HARDWARE: AX-98-EO - 3" EXIT LEVER TRIM: 996L-BE	SATIN CHROME/626	PANIC HARDWARE: 3' LEVER TRIM: 2 3/8" X 10 3/4" X 3/8"	N/A	VON DUPRIN	PER MANUFACTURE	ALL HARDWARE IS TO BE CONFIRMED WITH DISTRICT PRIOR TO ORDERING

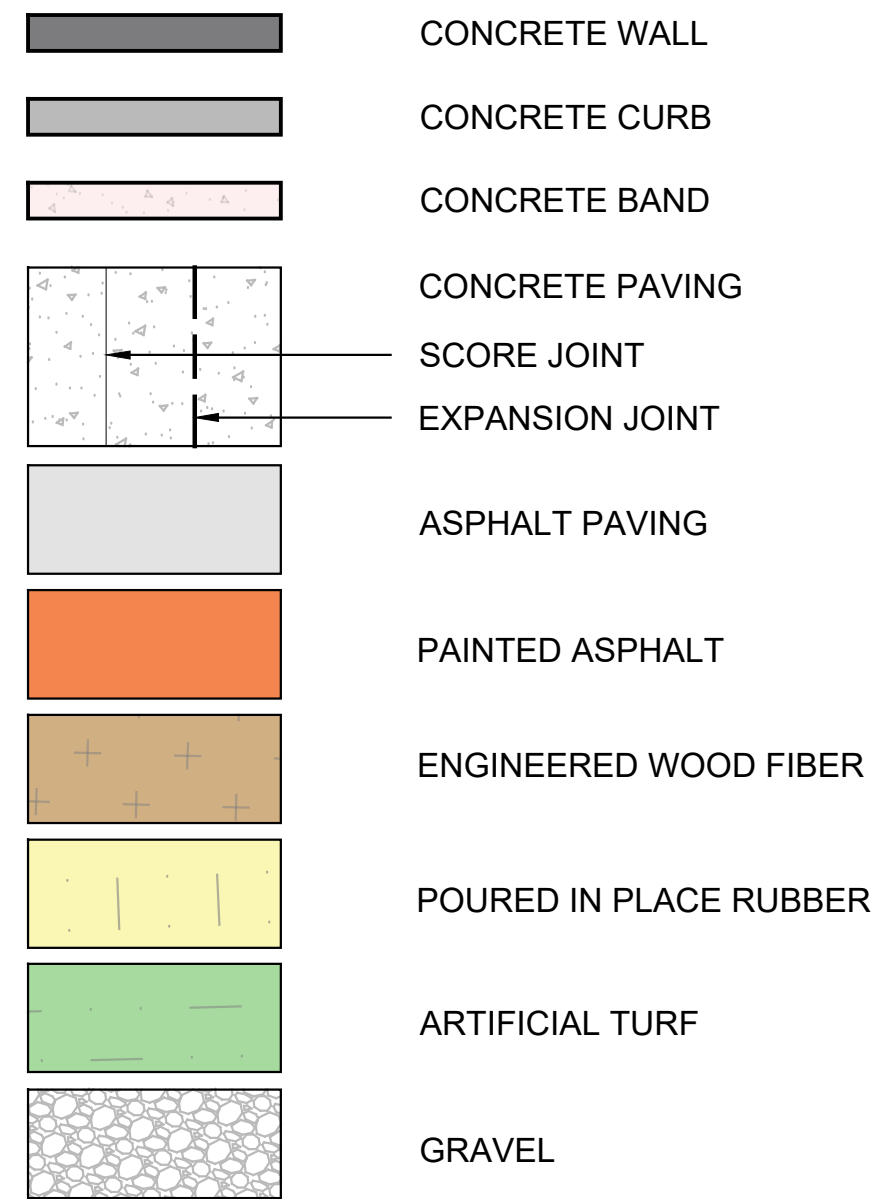
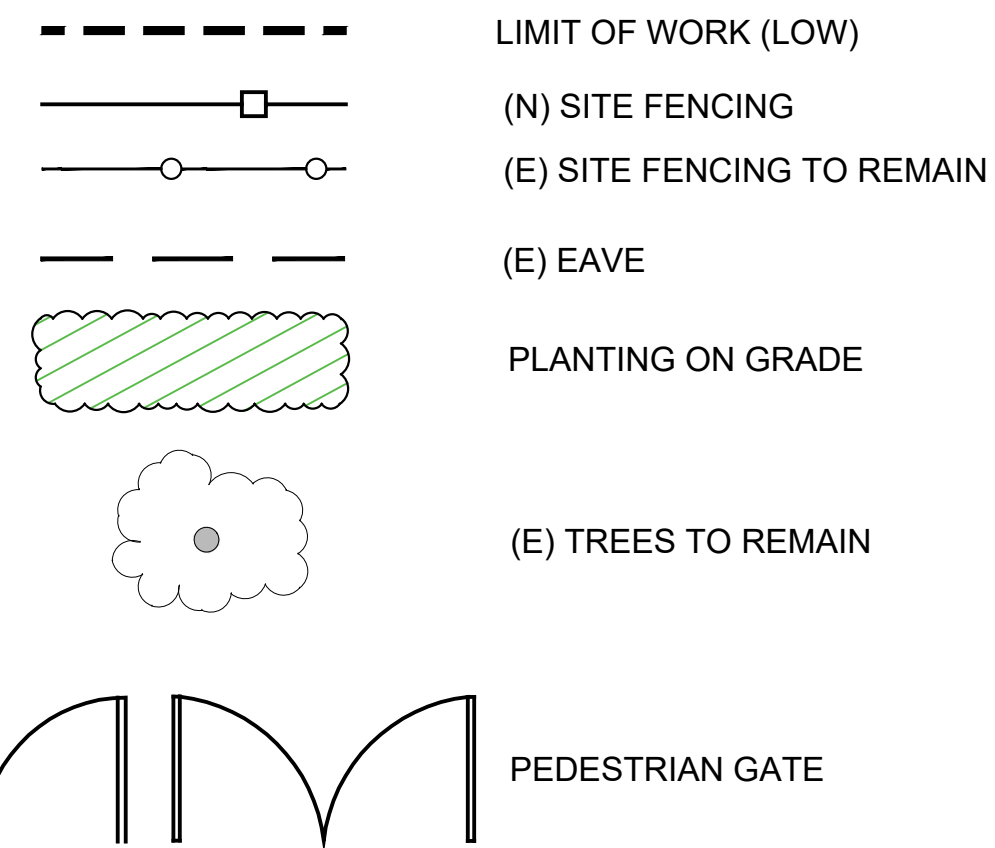
PLAY EQUIPMENT

SYMBOL	DESCRIPTION	SPEC/COLOR	FINISH	SIZE	PATTERN	MFR/SUPPLIER	DETAILS	NOTES
	PLAY STRUCTURE	PT20012/METAL: METALLIC; PLASTIC: BLUE	METAL	TBD' L X TBD' W X 8' H FALL ZONE: 33'-11" X 32'-9"	PER PLAN	GAMETIME		INSTALL PER MANUFACTURER SPECIFICATIONS. SEE 1 & 3/L-7.7, & 1/L-7.8, 7.9
	ROCKSPACE SPIDER WEB	7089/METALLIC & BLACK ROPE	METAL	8'-4" L X 3.5" W X 7' H FALL ZONE: 20'-4" L X 12'-3" W	PER PLAN	GATETIME		INSTALL PER MANUFACTURER SPECIFICATIONS
	SOLO SPINNER	6246/METALLIC	METAL	1'-3" DIAM. 4' H FALL ZONE: 13'-4" X 13'-4"	PER PLAN	GMETIME		INSTALL PER MANUFACTURER SPECIFICATIONS
	TREETOP TRAVERSE (3 CLIMBERS)	6370/ORANGE	METAL	(3) 1'-3" DIAM. X 8' H FALL ZONE: 14'-3" X 16'-10"	PER PLAN	GAMETIME		INSTALL PER MANUFACTURER SPECIFICATIONS
	SURFBOARD	8475/BLUE	METAL	7'-4" L X 1'-11" W X 4' H FALL ZONE: 15'-11" X 21'-5"	PER PLAN	GAMETIME		INSTALL PER MANUFACTURER SPECIFICATIONS
	FREESTANDING VERTICAL WIGGLE CLIMBER	6265/ METAL: METALLIC; PLASTIC: BLUE	METAL	4'-9" DIAM. X 8' H FALL ZONE: 16'-8" X 16'-0"	PER PLAN	GAMETIME		INSTALL PER MANUFACTURER SPECIFICATIONS
	SITTING STUMPS	TSCLP-SS/ NATURAL BARK	SEALED	12" +/- DIAM. X 12"-15" HIGH	PER PLAN	NATURAL PLAYGROUNDS CO.		RE-USE EXISTING STUMPS WHEN POSSIBLE. OPTION TO PILL OFF BARK AND TREATING THE SITTING STUMPS WITH CHILD-FRIENDLY PRESERVATIVE
	SLAB BENCH W/ SITTING STUMPS	NF-SB/NATURAL BARK	SEALED	4' LONG X 10"-12" OR WIDER	PER PLAN	NATURAL PLAYGROUNDS CO.		SITTING STUMPS INFO ABOVE
	MUD-KITCHEN W/ METER SINK	HPWP-MUDKITPUM P / NATURAL	NO FINISH	60" L X 24" W X 45" H	PER PLAN	NATURAL PLAYGROUNDS CO.		TOP MOUNTED. SCD FOR WATER CONNECTION
	MUD-KITCHEN W/ SINK	DEMONSTRATION TABLES / NATURAL	NO FINISH	96" L X 27" W X 45"H	PER PLAN	NATURAL PLAYGROUND CO.		TOP MOUNTED. SCD FOR WATER CONNECTION
	TREE FORT	PH.WO.01.2.G - [TP.1.01]/NATURAL	NO FINISH	12' W X 12' H	PER PLAN	DUNCAN & GROVE		MODIFY SPACING BETWEEN POSTS AS NEEDED FOR VISIBILITY AT ANY ANGLE FOR SUPERVISION
	LOG MAZE	NATURAL BARK	NATURAL WOOD, CHILD-FRIENDLY	12" DIAM X 8' LONG	PER PLAN	NATURAL PLAYGROUNDS CO.		3 LOG MAZE & RE-USE EXISTING STUMPS WHEN POSSIBLE
	FUN-SHOT BASKETBALL GOAL	IP-5002/RED	N/A	12" DIAM X 4'-6" H	PER PLAN	WILLYGOAT TOY & PLAYGROUNDS		PERMANENT INSTALLED IN-GROUND
	GRAVEL PIT	RSP SANDBOX W/ ADA TRANSFER DECK / NATURAL	N/A	8' 7 3/4" L X 6' W X 1'-1 1/2" H	PER PLAN	NATURE OF EARLY PLAY BY PLAY MART PLAYGROUNDS		RSP SANDBOX W/ ADA TRANSFER DECK & COVER. USE EXISTING PEA GRAVEL. SCD FOR DRAINAGE
	SKATE STOPPER	GMR05SS - SURFACE MOUNT STAINLESS STEEL	STAINLESS STEEL - BRUSHED	.5" RADIUS EDGE	N/A	SKATESTOPPERS.CO M		INSTALL PER MANUFACTURE SPECIFICATIONS @ ALL SEAT WALLS, SCD

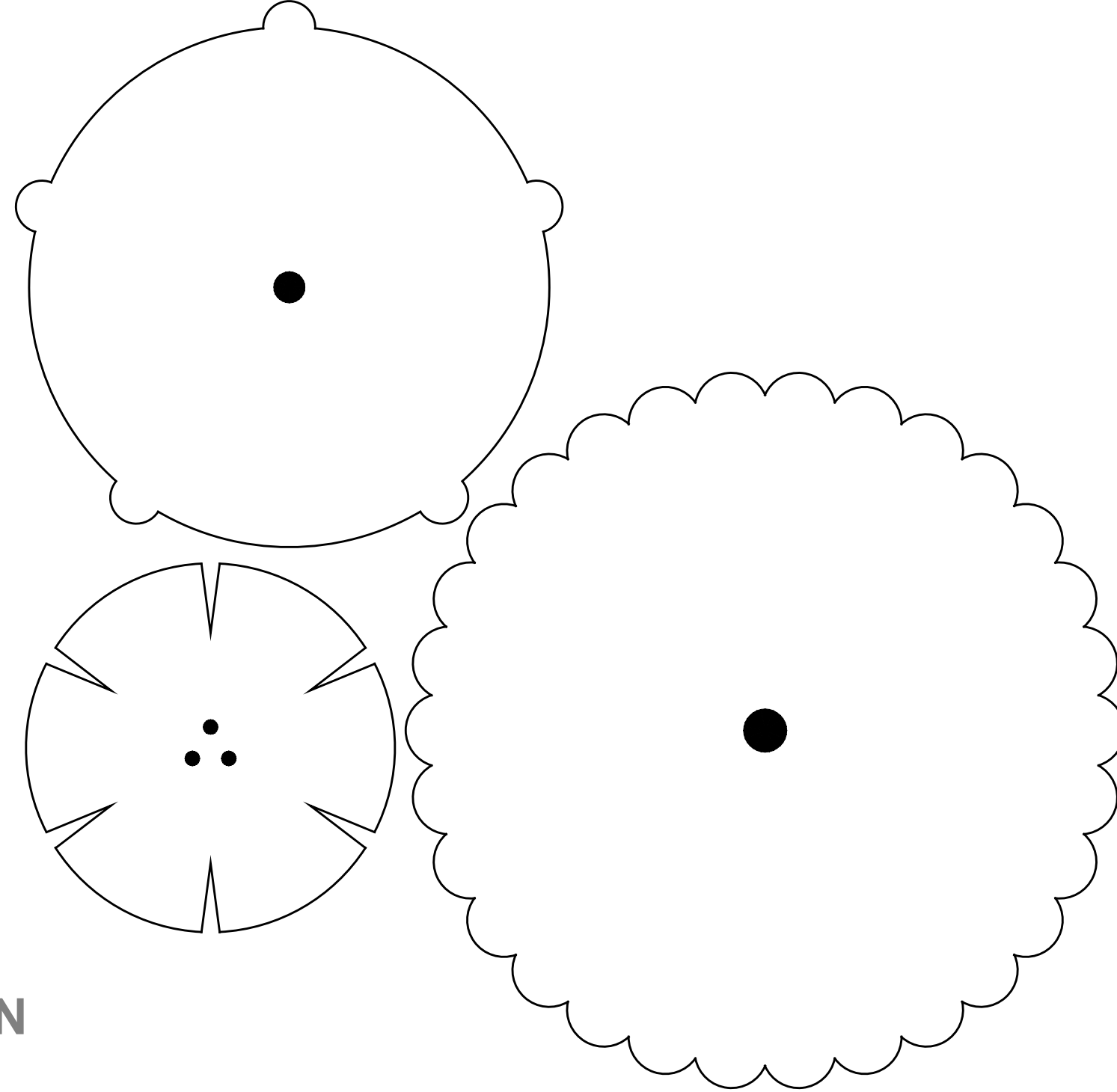
SITE FURNISHINGS

SYMBOL	DESCRIPTION	SPEC/COLOR	FINISH	SIZE	PATTERN	MFR/SUPPLIER	DETAILS	NOTES
	TABLE	T46INNV-3 & T46INNV / CLAY	PVC COATED GALVANIZED STEEL	78 1/8" X 78 1/8" SEAT: 18 3/4" H TABLE: 30 1/8" H	N/A	ZOOM RECREATION	N/A	FREE STANDING
	WATER FOUNTAIN W/ BOTTLE FILLING STATION & HAND WASHING STATION	GWQ84 SERIES / BLUE POWDER COLOR	N/A	52" H X 48" W & 12" & 14.5" DIAM FOR DRINKING & HANDWASH STATION	N/A	MURDOCK	SAD	FREE STANDING, PROVIDE ELECTRICAL CONNECTION
	WATER FOUNTAIN W/ BOTTLE FILLING & BI-LEVEL DRINKING STATION	GWQ84 SERIES / BLUE POWDER COLOR	N/A	52" H X 48" W & 12" DIAM FOR DRINKING	N/A	MURDOCK	SAD	FREE STANDING, PROVIDE ELECTRICAL CONNECTION
	FIXED BENCH	105 SERIES PL / WALNUT & BLACK	RECYCLED PLASTIC	18" H X 15.5" W X 6' L	N/A	DUMOR INC.		INSTALL PER MANUFACTURER SPECIFICATIONS
	SHADE UMBRELLA W/ RAISE POLE & HARDWARE	3-POINT UMBRELLA SHADE / DESERT SAND	UV & WATER RESISTANT FABRIC	25X25X25	PER PLAN	USA SHADE	SEE PC DRAWINGS	
	PREFABRICATED STORAGE	PREMIER LEAN	PAINTED	7' H X 4' W X 6' L	PER PLAN	TUFF SHED	N/A	16"X18" WALL VENT, PAINT: WALL: OLIVE SPING. TRIM: SOUTHERN BREEZE, ROOD: AUTUMN BROWN. FLUSH W/ CONCRETE
	(E) PREFABRICATED STORAGE	N/A	N/A	TBD	PER PLAN	N/A	N/A	RE-USE EXISTING STORAGE. SEE SITE PLAN FOR LOCATION
	RAISED GARDEN PLANTER	216 GALVANIZED BOTTOMLESS PLANTER / GRAY	GALVANIZED STEEL	1'H X 6'L X 2'W	PER PLAN	BEHLEN COUNTRY	N/A	4" DRAIN ROCK BENEATH W/ LINEAR PERF PIPE & GOPHER WIRE. SCD FOR WATER CONNECTION
	BARREL PLANTER	JACKSON EXTRA LARGE BROWN WOOD BARREL PLANTER/HL6642	NATURAL	26" DIA X 16.5" H	PER PLAN	THE HOME DEPOT OR LOCALLY SOURCED	N/A	@ FAIRY GARDEN LOCATION
	BOULDERS	CALIFORNIA BASALT OR SIMILAR	TEXTURE FOR SLIP RESISTENCE	12" HIGH ABOVE GRADE	PER PLAN	AMERICAN SOIL & STONE, RICHMOND		
	RECYCLING & TRASH UNIT	435-72SH/BODY COLOR: BLACK	GALVANIZED STEEL W/ POWDERCOAT	72 GALLON, 49 3/4" L X 43 3/8" H X 27 3/8"	PER PLAN	DUMOR INC.		WITH SHIELD, SIDE DEPOST, 3 STREAM

LEGEND:

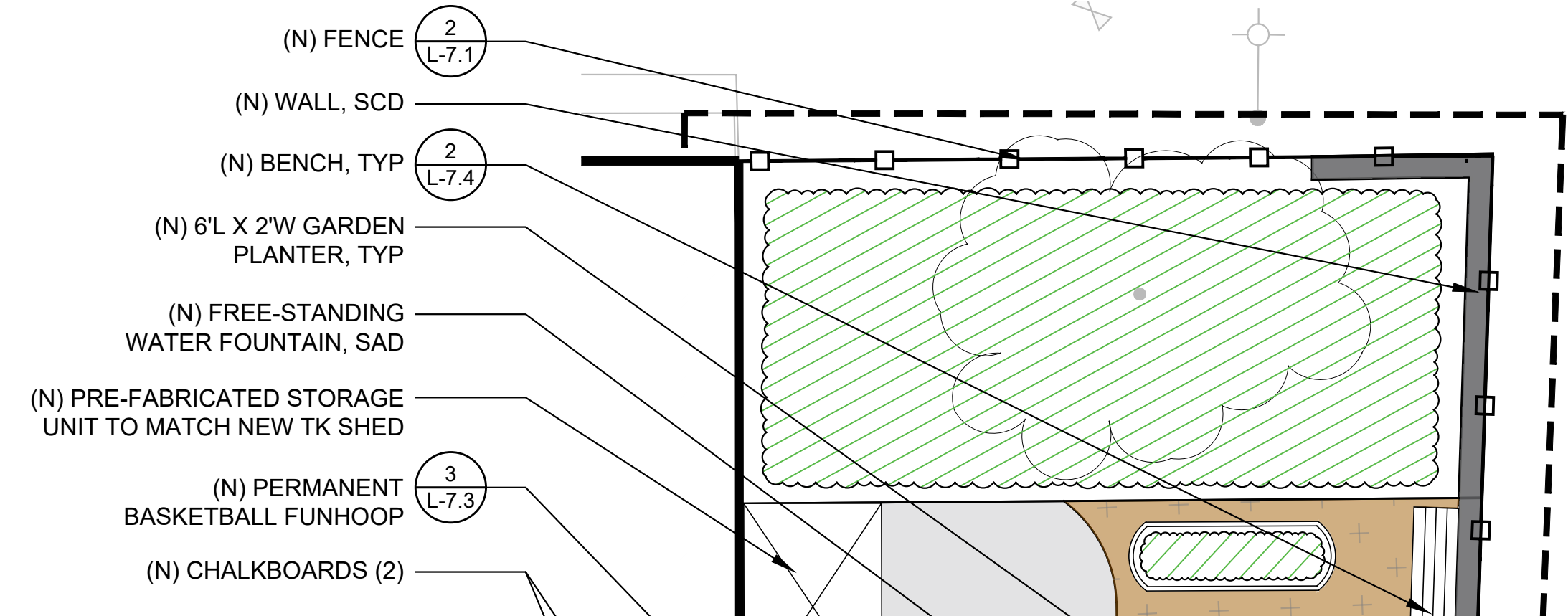


PROPOSED TREES



KINDERGARTEN BUILDING

LOW



PAINTED ASPHALT
(E) POSTS, VIF

(E) CONCRETE PATH TO REMAIN

(E) EAVE, TYP

(E) WALL TO REMAIN

REUSE (E) STORAGE. NEED TO VERIFY SIZE

(N) RECYCLING & TRASH UNIT

(N) WALL TO MATCH EXISTING

(N) FREE-STANDING WATER FOUNTAIN, SAD

(N) CURB, SCD
TURF PLAY MOUND

(N) FENCE

(N) PEDESTRIAN GATE

(N) PLAY STRUCTURE

PLAY STRUCTURE FALL ZONE

(N) EXCAVATION GRAVEL PIT W/ TRANSFER DECK & COVER

TRICYCLE PATH

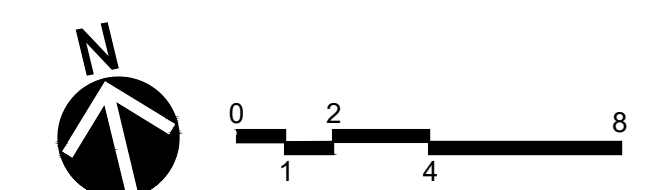
(N) SHADE SAIL, SEE PC DRAWINGS

(N) MUD KITCHEN AREA

(N) PEDESTRIAN GATE

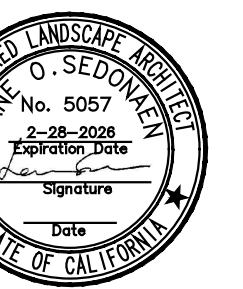
ADM BUILDING

PLAY COMPONENTS				
NUMBER OF ELEVATED PLAY COMPONENTS PROVIDED	MINIMUM NUMBER OF GROUND LEVEL PLAY COMPONENTS ON AN ACCESSIBLE ROUTE	NUMBER OF GROUND LEVEL PLAY COMPONENTS ON AN ACCESSIBLE ROUTE PROVIDED	MINIMUM NUMBER OF DIFFERENT TYPES OF GROUND LEVEL PLAY COMPONENTS ON AN ACCESSIBLE ROUTE	NUMBER OF DIFFERENT TYPES OF GROUND LEVEL PLAY COMPONENTS ON AN ACCESSIBLE ROUTE PROVIDED
2	1	1	1	1



HKITARCHITECTS

538 NINTH STREET SUITE 240 • OAKLAND, CA 94607
T 510 625 9800 • F 510 625 9801 • WWW.HKIT.COM



Jane Sedonaen, Landscape Architect



INTEGRATED DESIGN STUDIO, INC.

227 Flamingo Road
Mill Valley, CA 94941
Ph: 415-351-9500

www.integrateddesignstudio.com

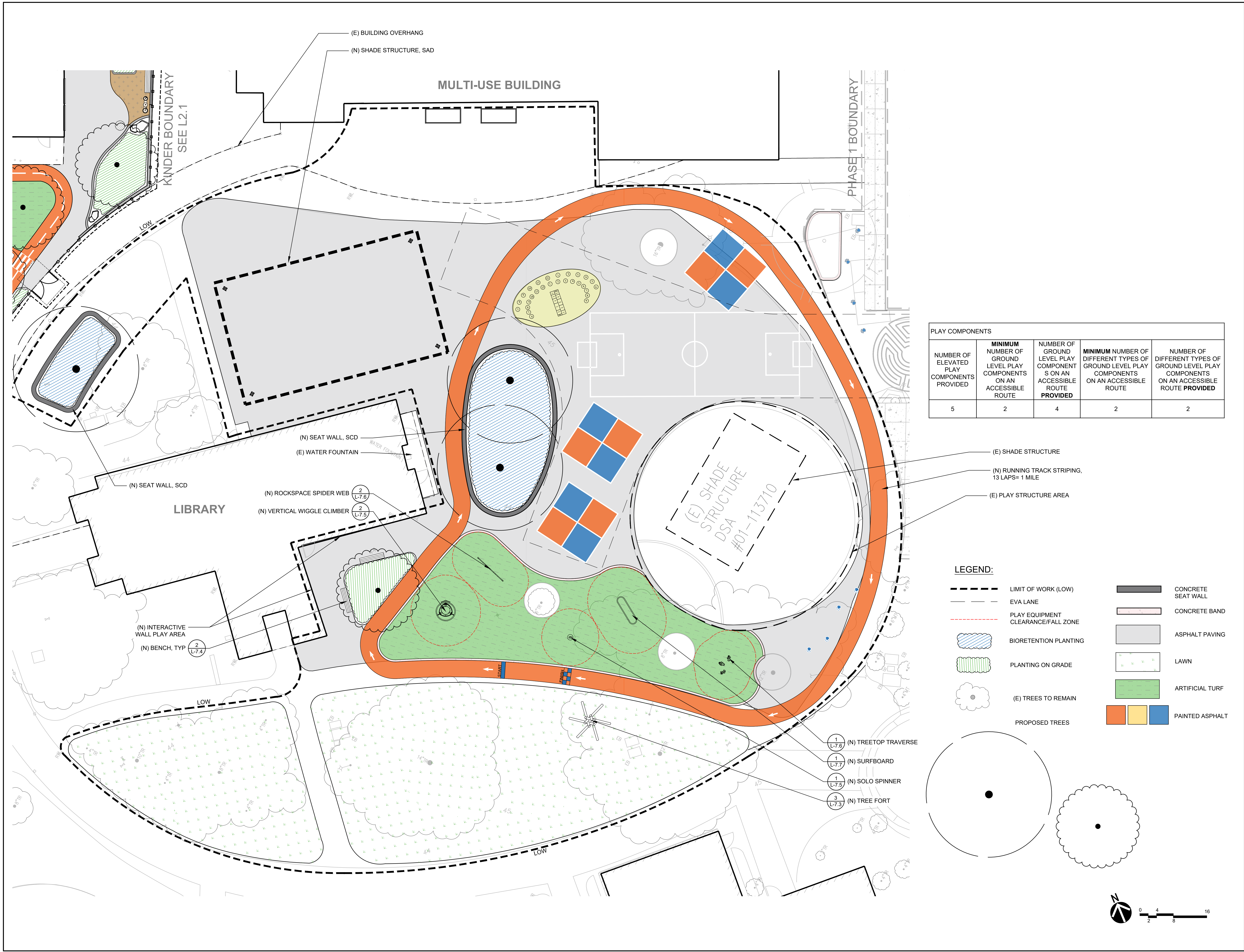
COLEMAN ELEMENTARY KINDERGARTEN PLAY YARD AND PLAY GROUND MODERNIZATION
SAN RAFAEL, CA

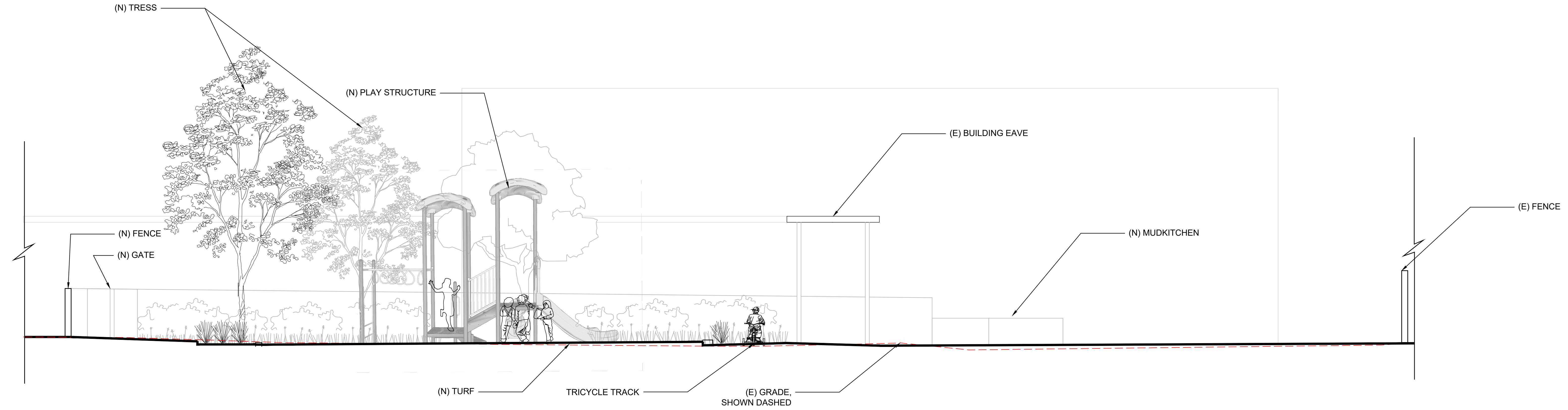
JOB NO. 23007
DRAWN SG/AS
CHECKED
JOB CAPTAIN
DATE
100% DSA SUBMITTAL 10/01/24

DRAWING TITLE
SITE PLAN
KINDERGARTEN

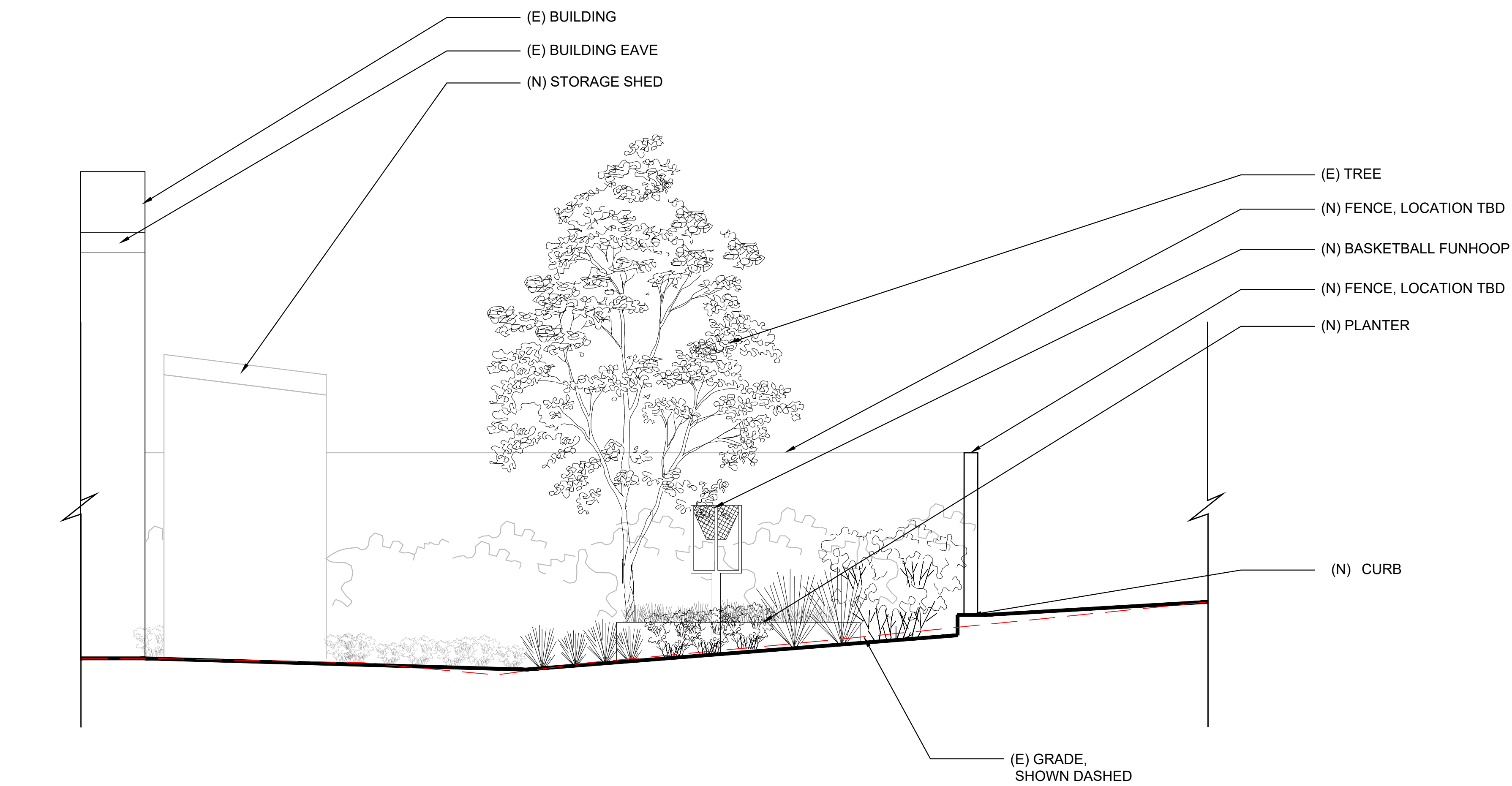
SCALE AS NOTED
L2.1

COPYRIGHT © 2021 HKIT ARCHITECTS

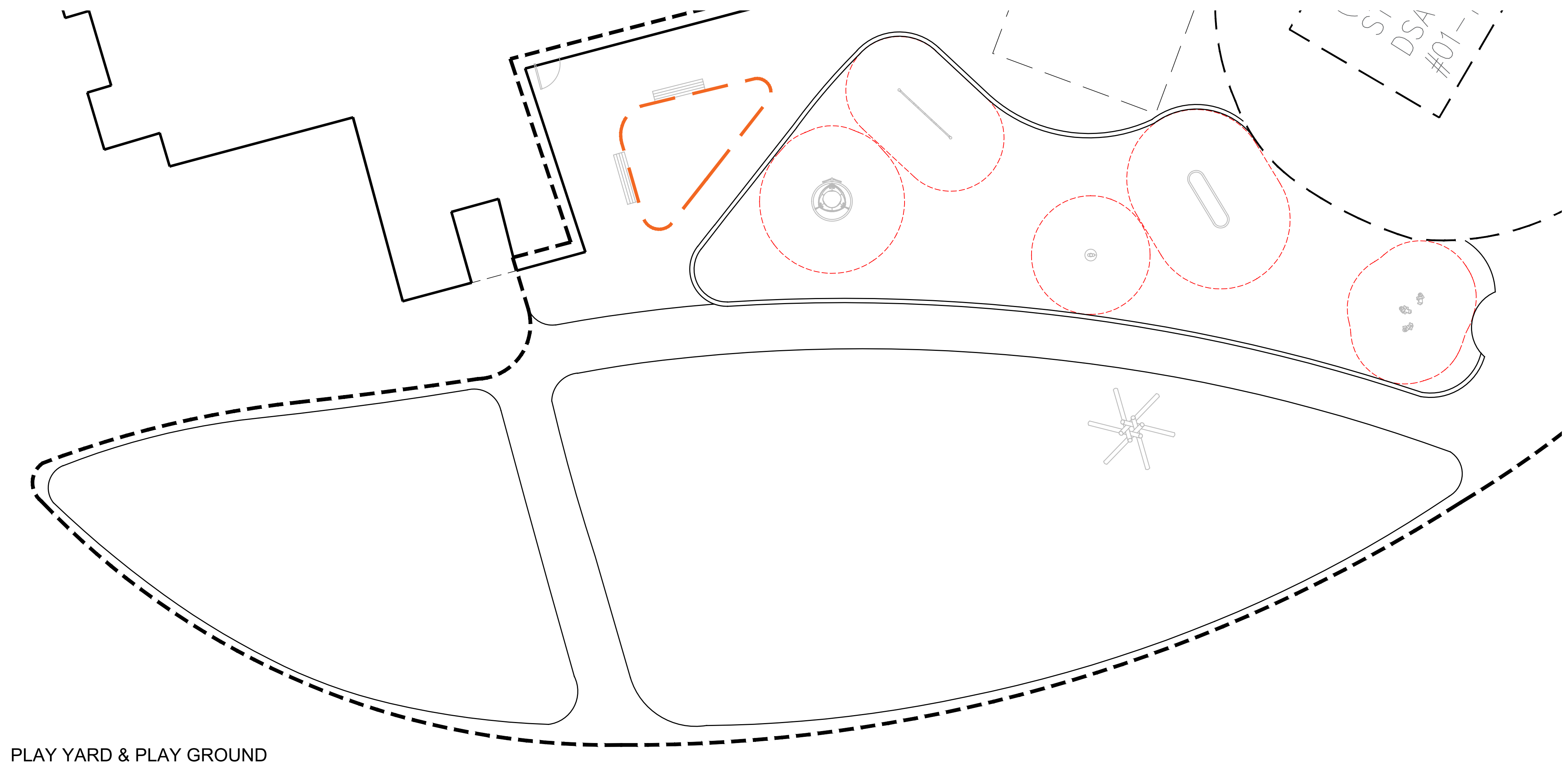




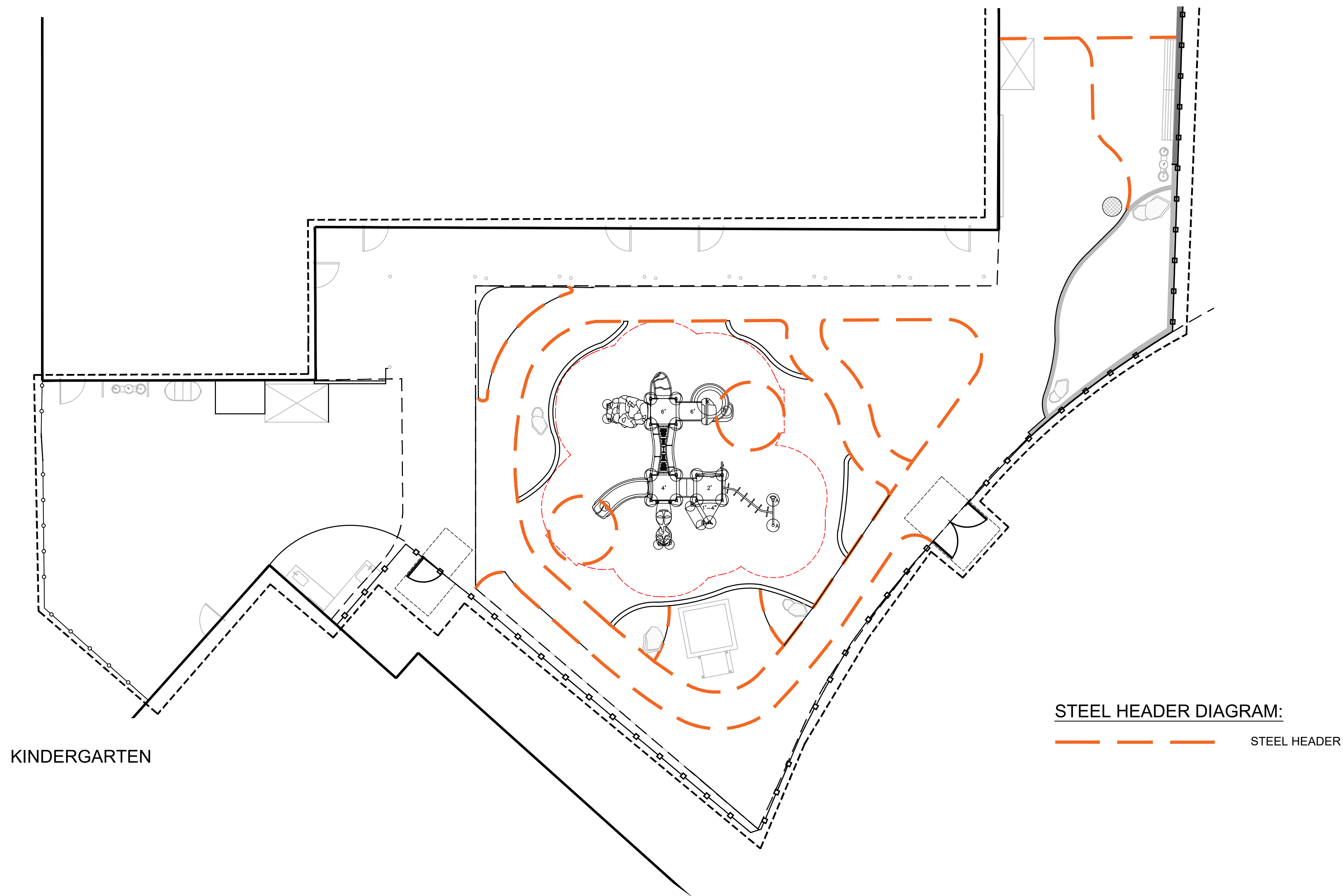
A SECTION/ELEVATION A
SCALE: 0 1 2 4
.5



B SECTION/ELEVATION B
SCALE: 0 1 2 4
.5

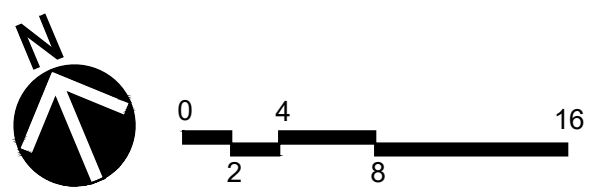


PLAY YARD & PLAY GROUND



KINDERGARTEN

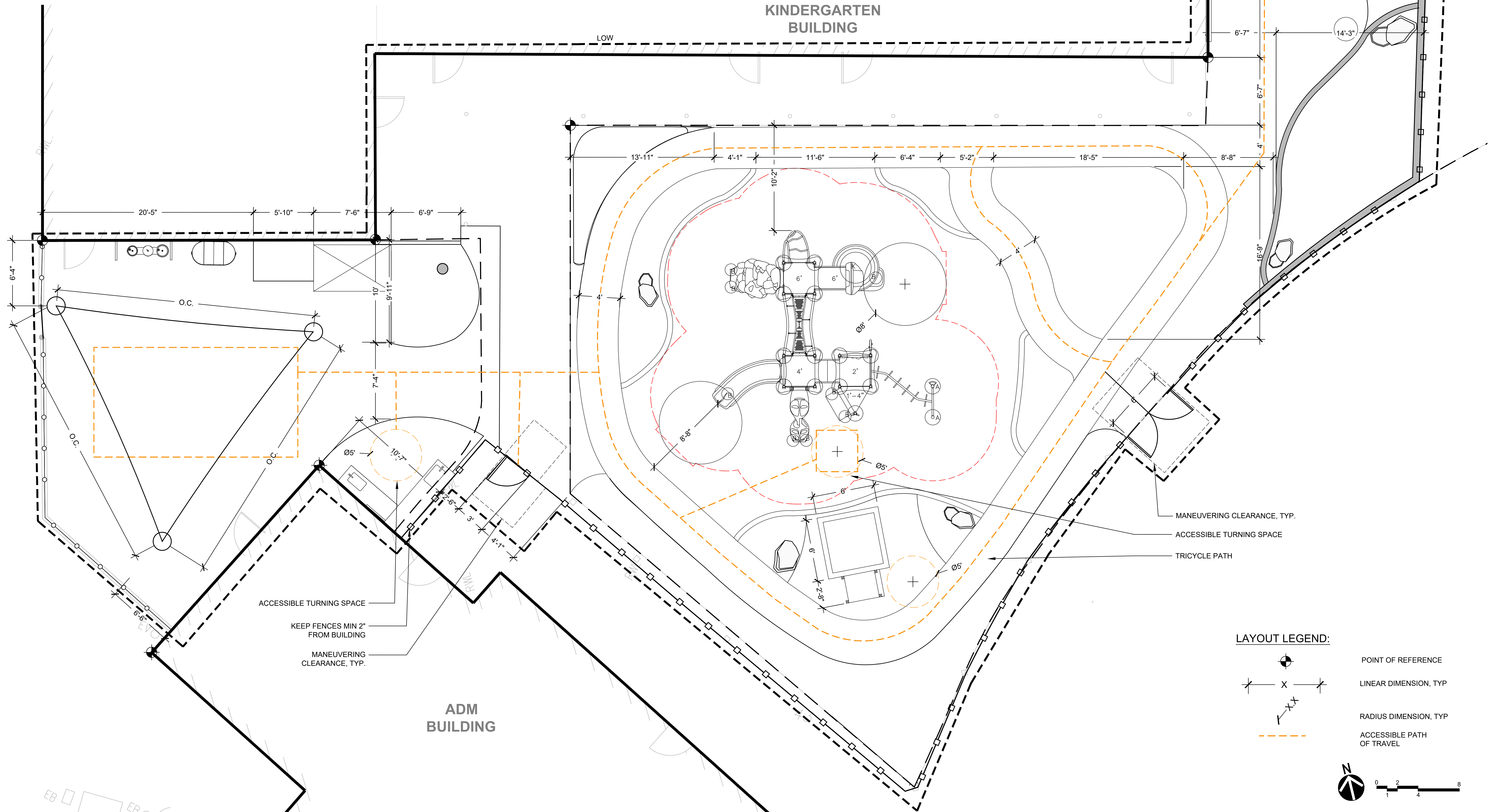
STEEL HEADER DIAGRAM:
STEEL HEADER



- 1) VERIFY LOCATION OF ALL BUILDINGS, WALLS, ROADS AND CURBS AFFECTING LANDSCAPE SCOPE OF WORK WITH ARCHITECTURAL AND CIVIL ENGINEER'S DRAWINGS.
- 2) VERIFY LOCATION OF ALL VAULTS, ELECTRICAL DUCT BANKS, MANHOLES, CONDUIT AND PIPING, DRAINAGE STRUCTURES AND OTHER UTILITIES WITH THE APPROPRIATE ENGINEERING DRAWINGS.
- 3) TAKE ALL DIMENSIONS FROM FACE OF CURB, WALL OR BUILDING OR TO CENTERLINE OF COLUMNS OR TREES UNLESS OTHERWISE NOTED. ALL DIMENSIONS CALLED OUT AS "EQUAL" ARE EQUIDISTANT MEASUREMENTS TO DESIGNATED CENTERLINE(S).
- 4) TAKE ALL DIMENSIONS PERPENDICULAR TO ANY REFERENCE LINE, WORK LINE, FACE OF BUILDING, FACE OF WALL, OR CENTERLINE.
- 5) ALL DIMENSIONS TAKEN TO CENTERLINE OF BUILDING COLUMN SHALL MEAN THE FIRST ROW OF COLUMNS CLOSEST TO THE FACE OF THE BUILDING. SEE ARCHITECT'S DRAWINGS FOR CORRESPONDING COLUMN LINES.
- 6) ALL ANGLES TO BE 90 DEGREES AND ALL LINES OF PAVING AND FENCING TO BE PARALLEL UNLESS NOTED OTHERWISE. MAINTAIN HORIZONTAL ALIGNMENT OF ADJACENT ELEMENTS AS NOTED ON THE DRAWINGS.
- 7) HOLD TOPS OF WALLS AND FENCES LEVEL UNLESS NOTED OTHERWISE.
- 8) REFERENCE TO NORTH REFERS TO TRUE NORTH. REFERENCE TO SCALE IS FOR FULL-SIZED DRAWINGS ONLY. DO NOT SCALE FROM REDUCED DRAWINGS.
- 9) DIMENSIONS TAKE PRECEDENCE OVER SCALES SHOWN ON DRAWINGS.
- 10) NOTES AND DETAILS ON SPECIFIC DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
- 11) WHERE NOT SHOWN ON LANDSCAPE DRAWINGS, SEE CIVIL ENGINEER'S DRAWINGS FOR ROADWAY CENTERLINES, BUILDING SETBACKS AND BENCH MARKS.

- 1) DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS MEETS THE REQUIREMENTS OF THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NON-COMPLIANT WITH THE CBC HAVE BEEN IDENTIFIED AND THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE INDICATED IN THESE CONSTRUCTION DOCUMENTS.
- 2) DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CBC COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THE ITEMS SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

1) ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS ROUTE WITHOUT ABRUPT LEVEL CHANGES EXCEEDING 1/4" IF BEVELED AT 1:2 MAXIMUM SLOPE OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAXIMUM AND AT LEAST 48" IN WIDTH. SURFACE IS STABLE, FIRM, AND SLIP-RESISTANT. CROSS-SLOPE SHALL NOT BE STEEPER THAN 1:48 AND SLOPE IN THE DIRECTION OF TRAVEL SHALL NOT BE STEEPER THAN 1:20. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM AND FREE OF OBJECTS PROTRUDING MORE THAN 4" FROM THE WALL, ABOVE 27" AND LESS THAN 80" ABOVE THE FLOOR. ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.

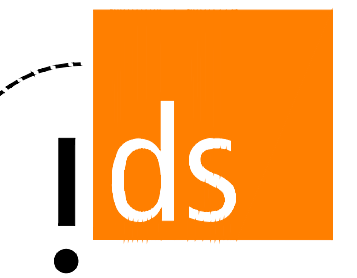


HKIT ARCHITECTS

T 510 625 9800 • F 510 625 9801 • WWW.HKIT.COM



ne Sedonaen, Landscape Architect



**INTEGRATED
DESIGN
STUDIO
Inc**

27 Flamingo Road
Valley, CA 94941
h 415-381-9500

www.integrateddesignstudio.com

COLEMAN
ELEMENTARY
KINDERGARTEN
PLAY YARD AND
PLAY GROUND
MODERNIZATION
SAN RAFAEL, CA

JOB NO. 23007
DRAWN SG/AS
CHECKED
JOB CAPTAIN
DATE
100% DSA SUBMITTAL 10/01/24

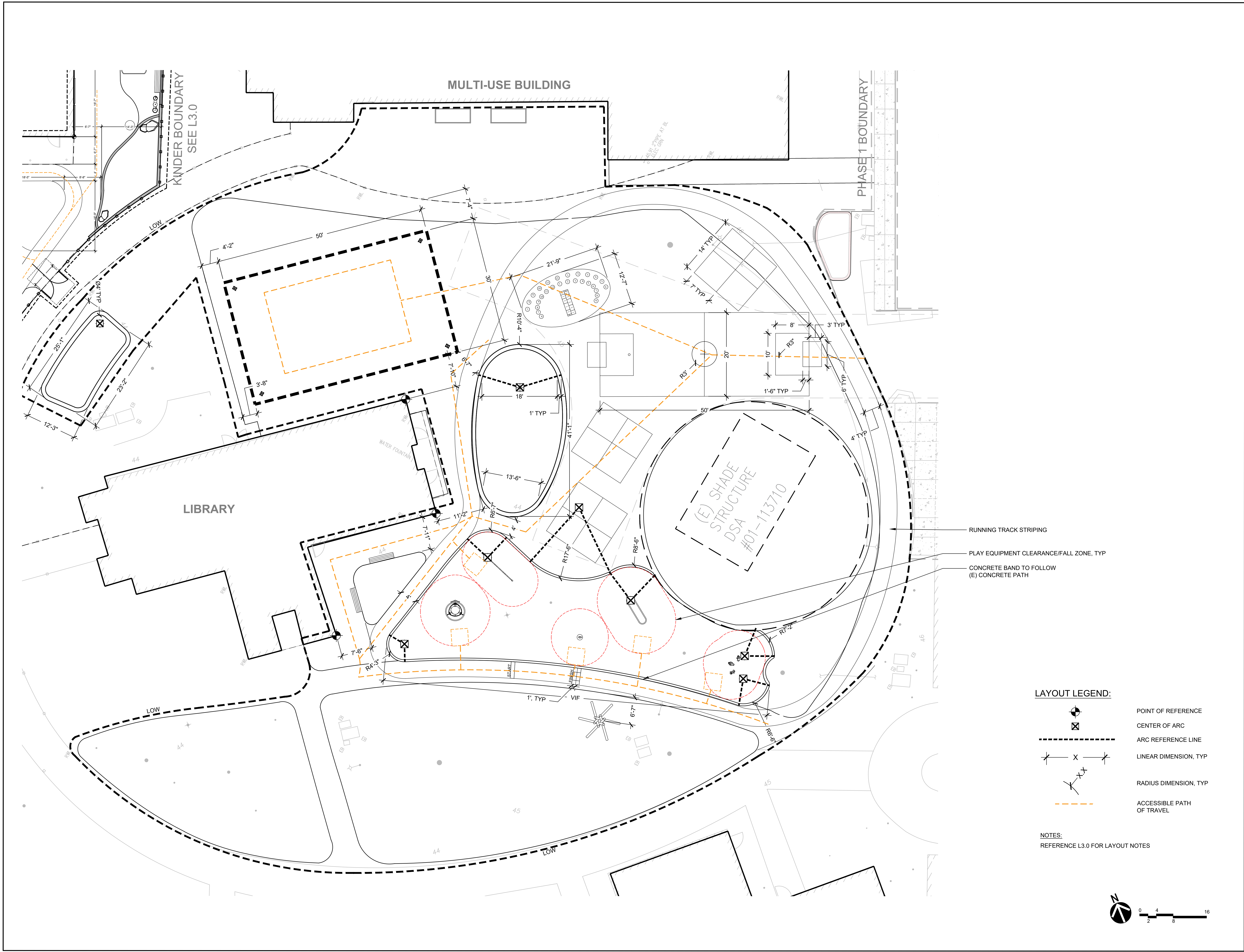
DRAWING TITLE

LAYOUT PLAN KINDERGARTEN

SCALE AS NOTED

3.0

COPYRIGHT© 2021 HKIT ARCHITECTS



RUNNING TRACK STRIPING

PLAY EQUIPMENT CLEARANCE/FALL ZONE, TYP

CONCRETE BAND TO FOLLOW
(E) CONCRETE PATH

LAYOUT LEGEND:

- POINT OF REFERENCE
- CENTER OF ARC
- ARC REFERENCE LINE
- LINEAR DIMENSION, TYP
- RADIUS DIMENSION, TYP
- ACCESSIBLE PATH OF TRAVEL

NOTES:
REFERENCE L3.0 FOR LAYOUT NOTES

LAYOUT NOTES:

- 1) PROVIDE SCORE JOINTS (SJ) AND EXPANSION JOINTS (EJ) AS SHOWN ON PLAN INCLUDING AT BUILDING WALLS, CURBS, FOOTINGS, AND OTHER VERTICAL ELEMENTS.

2) REFER TO SHEET L-3.0 FOR GENERAL SITE LAYOUT

3) EXPANSION JOINTS / SCORE JOINTS ARE SHOWN PRELIMINARILY AND SHALL BE LAID OUT IN FIELD AND VERIFIED WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

4) VERIFY LOCATION OF ALL BUILDINGS, WALLS, ROADS AND CURBS AFFECTING LANDSCAPE SCOPE OF WORK WITH ARCHITECTURAL AND CIVIL ENGINEER'S DRAWINGS.

5) 2) EJ'S SHALL NOT EXCEED 18' O.C. BOTH DIRECTIONS.

6) VERIFY LOCATION OF ALL VAULTS, ELECTRICAL DUCT BANKS, MANHOLES, CONDUIT AND PIPING, DRAINAGE STRUCTURES AND OTHER UTILITIES WITH THE APPROPRIATE ENGINEERING DRAWINGS.

7) TAKE ALL DIMENSIONS FROM FACE OF CURB, WALL OR BUILDING OR TO CENTERLINE OF COLUMNS OR TREES UNLESS OTHERWISE NOTED. ALL DIMENSIONS CALLED OUT AS "EQUAL" ARE EQUIDISTANT MEASUREMENTS TO DESIGNATED CENTERLINE(S).
- 8) TAKE ALL DIMENSIONS PERPENDICULAR TO ANY REFERENCE LINE, WORK LINE, FACE OF BUILDING, FACE OF WALL, OR CENTERLINE.

9) HOLD TOPS OF WALLS AND FENCES LEVEL UNLESS NOTED OTHERWISE.

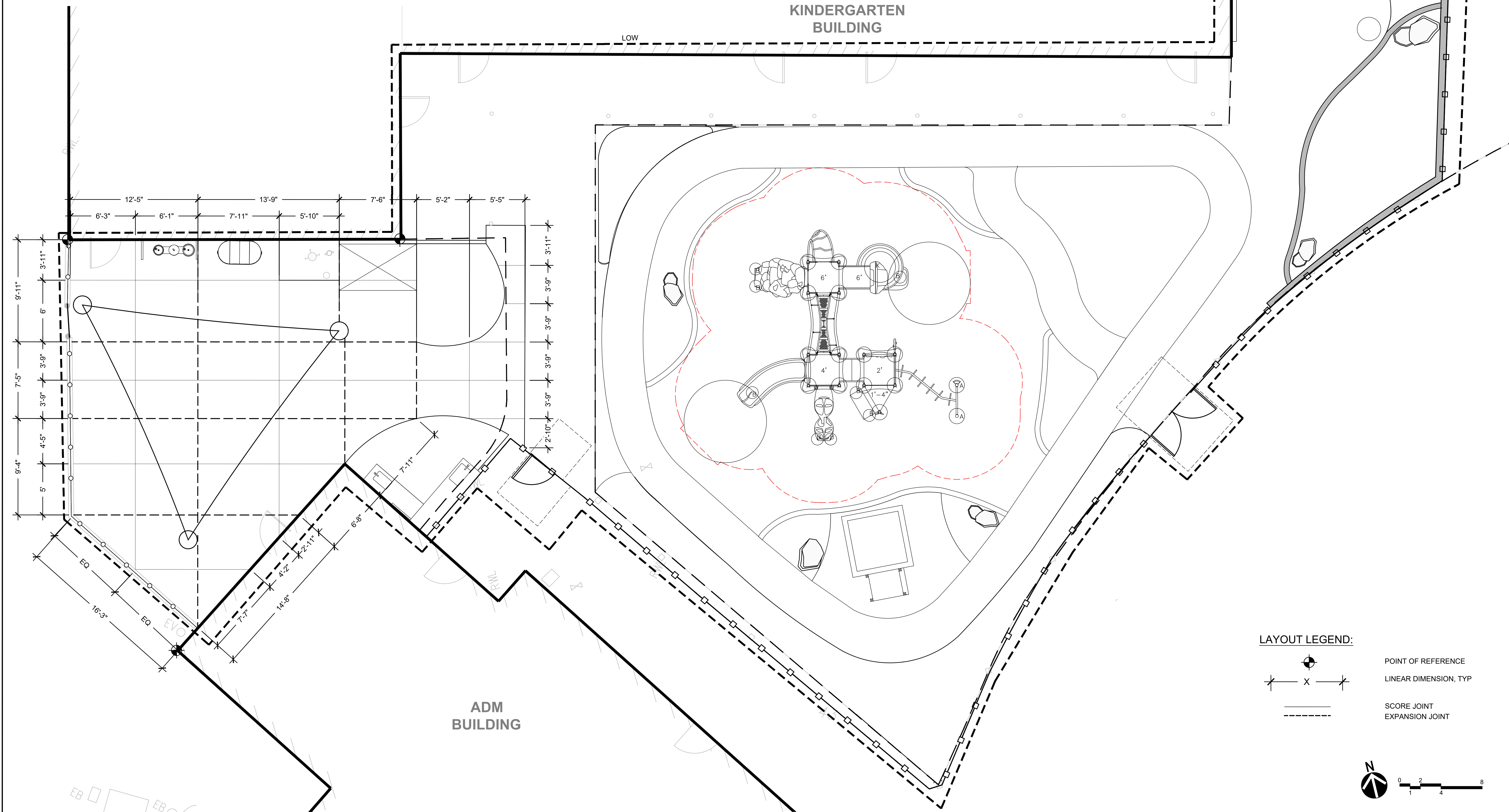
10) REFERENCE TO NORTH REFERS TO TRUE NORTH. REFERENCE TO SCALE IS FOR FULL-SIZED DRAWINGS ONLY. DO NOT SCALE FROM REDUCED DRAWINGS.

11) DIMENSIONS TAKE PRECEDENCE OVER SCALES SHOWN ON DRAWINGS.

12) NOTES AND DETAILS ON SPECIFIC DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.

13) WHERE NOT SHOWN ON LANDSCAPE DRAWINGS, SEE CIVIL ENGINEER'S DRAWINGS FOR ROADWAY CENTERLINES, BUILDING SETBACKS AND BENCH MARKS.

14) ALL CONCRETE SLABS AND RAMP OR STEP FOOTINGS SHALL BE DOWELED INTO ABUTTING WALLS, FOUNDATIONS AND FOOTINGS USING BARS OF THE SAME SIZE AND SPACING UNLESS NOTED OTHERWISE. SEE JOINTING DETAILS.



GENERAL PLANTING NOTES:

- 1) CONTRACTOR SHALL PROVIDE 365 DAYS OF MAINTENANCE FOR ALL WORK INSTALLED.
- 2) CONTRACTOR TO DEMO, CLEAR AND GRUB THE EXISTING PLANTING IN AREAS WHERE NEW PLANTING IS PROPOSED.
- 3) KEEP PLANTING CLEAN AND FREE FROM ALL CONCRETE, ASPHALTIC WASTE, LUMBER AND OTHER SUCH MATERIALS.
- 4) CONTRACTOR TO PROVIDE SOIL FERTILITY TESTS AND REPORTS
- 5) CONTRACTOR TO PROVIDE TOP SOILS, PREPARED & AMENDED SOIL.
- 6) PROPOSED PLANTING LIST CONTAINS NO SPECIES LISTED IN THE CALIFORNIA INVASIVE PLANT INVENTORY.
- 7) PLANT LIST CONSISTS OF DROUGHT-TOLERANT, NATIVE OR ADAPTED PLANT SPECIES SUITABLE TO THE LOCAL MICRO-CLIMATE.
- 8) DO NOT WORK WET SOIL TO AVOID COMPACTION.
- 9) NO PLANT SUBSTITUTIONS WILL BE ACCEPTED, UNLESS OTHERWISE APPROVED BY THE LANDSCAPE ARCHITECT. SUBSTITUTIONS WITH SPECIES OF THE SAME GENUS MAY BE ACCEPTABLE, PROVIDED THE VARIETY IS SIMILAR IN GROWTH HABIT, SIZE AND COLOR TO THE SPECIFIED PLANT, AND WATER USE IS THE SAME.
- 10) ALL PLANTS AND LAYOUT TO BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO EXCAVATION OF PLANTING HOLES.
- 11) PLANT QUANTITIES ARE FOR INFORMATIONAL PURPOSES AND WATER USE CALCULATIONS ONLY. CONTRACTOR TO VERIFY THE QUANTITY AND USE THE GRAPHIC PLANS AS A BASIS FOR QUANTITY OF PLANTS.
- 12) REPLACE ANY DAMAGED OR DESTROYED LANDSCAPING TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.

PLANTING SPECIFICATIONS:

TREE AND SHRUB PLANTING:
EXCAVATE CIRCULAR PITS WITH SIDES SLOPED INWARD. TRIM BASE LEAVING CENTER AREA RAISED SLIGHTLY TO SUPPORT ROOT BALL AND ASSIST IN DRAINAGE. DO NOT FURTHER DISTURB BASE. SCARIFY SIDES OF PLANT PIT SMEARED OR SMOOTHED DURING EXCAVATION. EXCAVATE APPROXIMATELY TWO TIMES AS WIDE AS BALL DIAMETER FOR CONTAINER-GROWN STOCK. SET CONTAINER-GROWN STOCK PLUMB AND IN CENTER OF PIT OR TRENCH WITH TOP OF ROOT BALL 1 INCH ABOVE ADJACENT FINISH GRADES. CAREFULLY REMOVE ROOT BALL FROM CONTAINER WITHOUT DAMAGING ROOT BALL OR PLANT. PLACE PLANTING SOIL MIX AROUND ROOT BALL IN LAYERS, TAMPING TO SETTLE MIX AND ELIMINATE VOIDS AND AIR POCKETS. WHEN PIT IS APPROXIMATELY ONE-HALF BACKFILLED, WATER THOROUGHLY BEFORE PLACING REMAINDER OF BACKFILL. REPEAT WATERING UNTIL NO MORE WATER IS ABSORBED. WATER AGAIN AFTER PLACING AND TAMPING FINAL LAYER OF PLANTING SOIL MIX.

TREES PLANTED IN PARKING ISLANDS:
USE CU STRUCTURAL SOIL AT A 2-3' DEPTH X PROJECTED CANOPY WIDTH.

ROOT BARRIERS:

SOIL ANALYSIS:
FOR EACH UNAMENDED SOIL TYPE, FURNISH SOIL ANALYSIS AND A WRITTEN REPORT BY A QUALIFIED SOIL-TESTING LABORATORY STATING PERCENTAGES OF ORGANIC MATTER; GRADATION OF SAND, SILT, AND CLAY CONTENT; CATION EXCHANGE CAPACITY; DELETERIOUS MATERIAL; PH; AND MINERAL AND PLANT-NUTRIENT CONTENT OF THE SOIL. REPORT SUITABILITY OF TESTED SOIL FOR PLANT GROWTH. BASED UPON THE TEST RESULTS, STATE RECOMMENDATIONS FOR SOIL TREATMENTS AND SOIL AMENDMENTS TO BE INCORPORATED. STATE RECOMMENDATIONS IN WEIGHT PER 1000 SQ. FT. OR VOLUME PER CU. YD. FOR NITROGEN, PHOSPHORUS, AND POTASH NUTRIENTS AND SOIL AMENDMENTS TO BE ADDED TO PRODUCE SATISFACTORY PLANTING SOIL SUITABLE FOR HEALTHY, VIABLE PLANTS.

SOIL AMENDMENT:
A MINIMUM OF 6" OF NON-MECHANICALLY COMPACTED SOIL SHALL BE AVAILABLE FOR WATER ABSORPTION AND ROOT GROWTH IN PLANTED AREAS

AREAS WITH SLOPE OF 3:1 OR LESS MUST MEET THE FOLLOWING SOIL PREP REQUIREMENTS:
A) RIP OR ROTARY TILL EXISTING SOIL TO A MINIMUM DEPTH OF 6 INCHES, OR,
B) INCORPORATE COMPOST OR NATURAL FERTILIZER INTO THE SOIL TO A MINIMUM DEPTH OF 6" AT A MINIMUM RATE OF 5 CUBIC YARDS PER 1000 SQUARE FEET OR PER SPECIFIC AMENDMENT RECOMMENDATIONS FROM A SOILS LABORATORY REPORT.

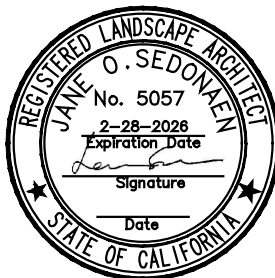
CONTAINER MIX:
ASTM D 5268 TOPSOIL, WITH PH RANGE OF 5.5 TO 7, A MINIMUM OF 6 PERCENT ORGANIC MATERIAL CONTENT; FREE OF STONES 1 INCH (25 MM) OR LARGER IN ANY DIMENSION AND OTHER EXTRANEEOUS MATERIALS HARMFUL TO PLANT GROWTH.

ORGANIC MULCHING:
APPLY 3-INCH AVERAGE THICKNESS OF ORGANIC MULCH EXTENDING 12 INCHES BEYOND EDGE OF PLANTING PIT OR TRENCH. REFER TO PLANTING DETAILS FOR FURTHER INFORMATION.

PLANTING MAINTENANCE NOTES:

- 1) ALL LANDSCAPE PLANTERS AND IRRIGATION INSTALLATIONS MUST BE 100% COMPLETE AND ACCEPTED BY THE DISTRICT PRIOR TO INITIATING THE 1 YEAR MAINTENANCE PERIOD.
- 2) CONTRACTOR SHALL MAINTAIN LANDSCAPE AREAS TO BE FREE OF DEBRIS, WEEDS AND PESTS.
- 3) CONTRACTOR TO PROVIDE A DETAILED SCHEDULE AND MAP FOR IRRIGATION WITH COLORED VALVE NUMBERS, RUN TIMES AND DOCUMENT FOR SEASONAL ADJUSTMENTS.
- 4) PRIOR TO THE END OF THE 1 YEAR MAINTENANCE PERIOD, ALL PLANTING AREAS SHALL BE FERTILIZED, MULCHED TO 3" DEPTH AND ALL IRRIGATION ADJUSTED FOR COVERAGE AND NO RUNOFF.
- 5) SCHEDULE A MAINTENANCE WALK WITH THE DISTRICT AT THE END OF THE 1 YEAR MAINTENANCE PERIOD TO RELINQUISH MAINTENANCE TO THE DISTRICT.
- 6) CONTRACTOR SHALL PROVIDE AN OPERATIONS MANUAL BINDER AND DIGITAL COPY FOR EACH PROJECT INCLUDING ALL MATERIALS, CUT SHEETS AND PURCHASE SOURCES FOR FUTURE USE BY THE DISTRICT.

PLANTING MATERIAL SCHEDULE						
SYMBOL	DESCRIPTION	SPEC/COLOR	FINISH	MFR/SUPPLIER	DETAILS	NOTES
	MULCH	NATURAL ARBOR MULCH		SHAMROCK MATERIALS	<div>3 L4.3</div>	ALL LANDSCAPE AREAS TO HAVE 3" DEEP MULCH.
	GEOTEXTILE LANDSCAPE FABRIC	5 OZ PRO GARDEN WEED BARRIER LANDSCAPE FABRIC/ BLACK		ECOGARDENER		HOLD 3" BELOW FINISHED GRADE. TOP W/ MULCH. 6" MIN. GALVANIZED STAPES 12" OC @ EDGES. USE AT PLANTING AREAS AND AT DG PAVING
	RAISED BED PLANTING SOIL	VEGGIE GARDEN BLEND	SANDY LOAM	A & S LANDSCAPE MATERIALS		FOR VEGETABLE PLANTING



Jane Sedonaen, Landscape Architect



COLEMAN
ELEMENTARY
KINDERGARTEN
PLAY YARD AND
PLAY GROUND
MODERNIZATION
SAN RAFAEL, CA

JOB NO. 23007
DRAWN SG/AS
CHECKED
JOB CAPTAIN
DATE
100% DSA SUBMITTAL 10/01/24

DRAWING TITLE

PLANTING
NOTES

SCALE AS NOTED

L4.0

PLANTING LEGEND:

TREES

- 24" BOX | *ARBUTUS 'MARINA'*
3 MARINA STRAWBERRY TREE
- 24" BOX | *ARCTOSTAPYLOS DENSIFLORA 'HOWARD MCI'*
1 HOWARD MCMINN MANZANITA
- 24" BOX | *PARKINSONIA X 'DESERT MUSEUM'*
3 DESERT MUSUEM PALO VERDE

SHRUBS

- 5G | *CEANOTHUS GLORIOSUS 'ANCHOR BAY'*
3 ANCHOR BAY CREEPING CEANOTHUS
- 5G | *GREVILLEA LANIGERA 'MOUNT TABORITHA'*
10 WOOLY GREVILLEA
- 5G | *RIBES SANGUINEUM VAR. GLUTINOSUM 'SPRING SHOWERS'*
1 PINK FLOWERING CURRANT
- 5G | *RHAMNUS CALIFORNICA TOMENTELLA*
2 SERPENTINE COFFEEBERRY

PERENNIALS

- 1G | *ACHILLEA MILLEFOLIUM*
21 COMMON YARROW
- 1G | *ANIGOZANTHOS FLAVIDUS 'BUSH GOLD'*
16 BUSH GOLD KANGAROO PAW
- 1G | *MIMULUS AURANTICUS*
13 STICKY MONKEY FLOWER
- 1G | *PEROVSKIA ATRIPLICIFOLIA 'LACEY BLUE'*
9 LACEY BLUE RUSSIAN SAGE

GRASSES

- 1G | *MUHLENBERGIA RIGENS*
9 DEER GRASS

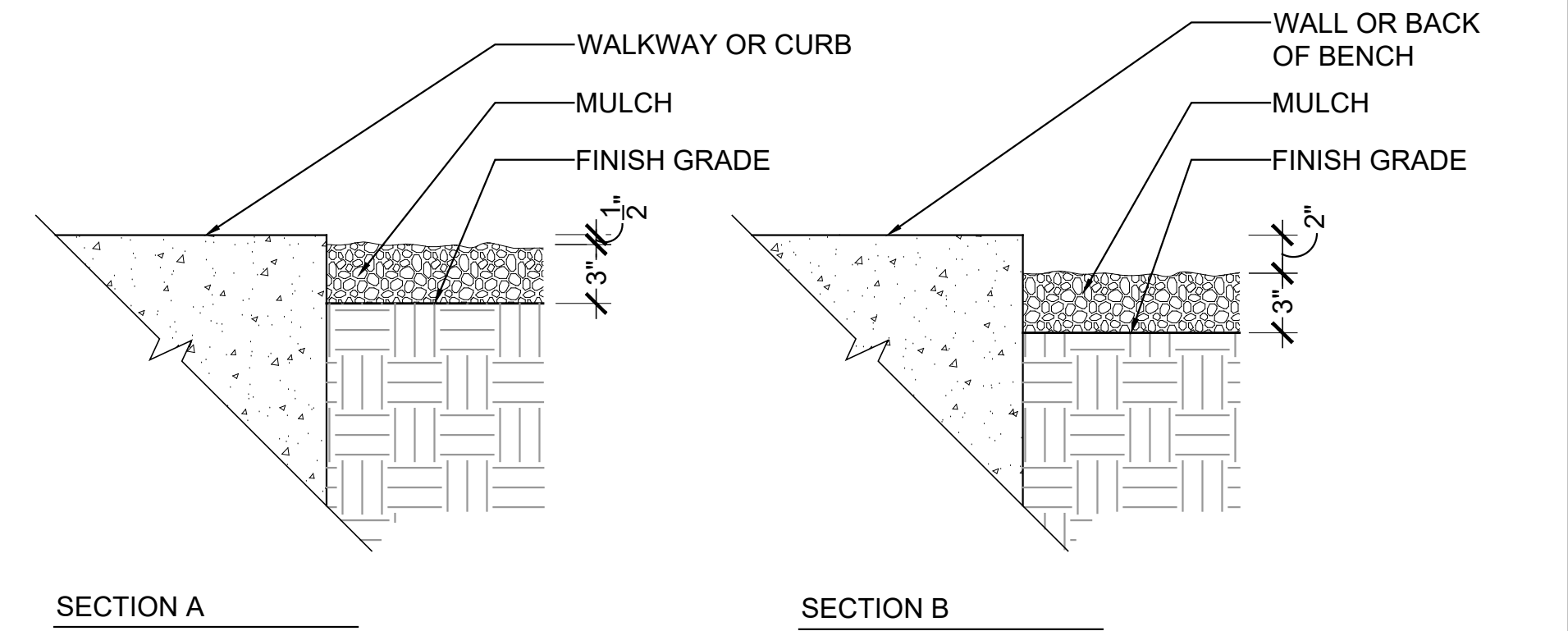
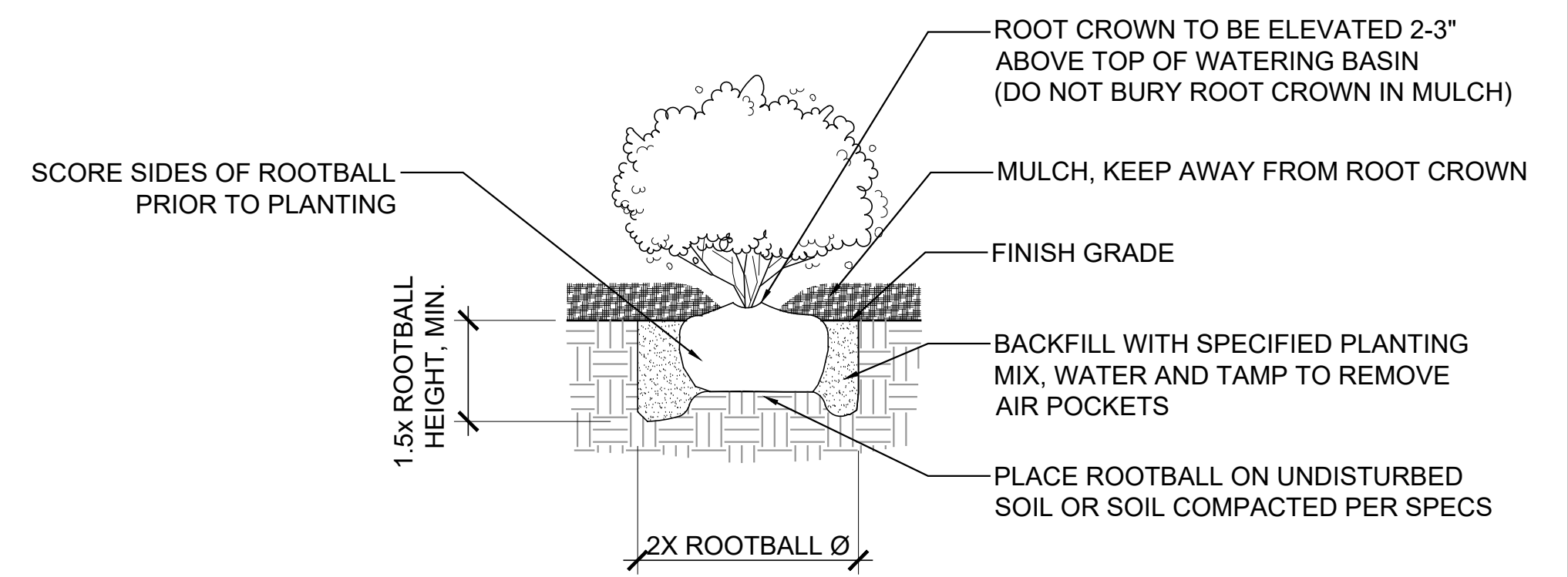
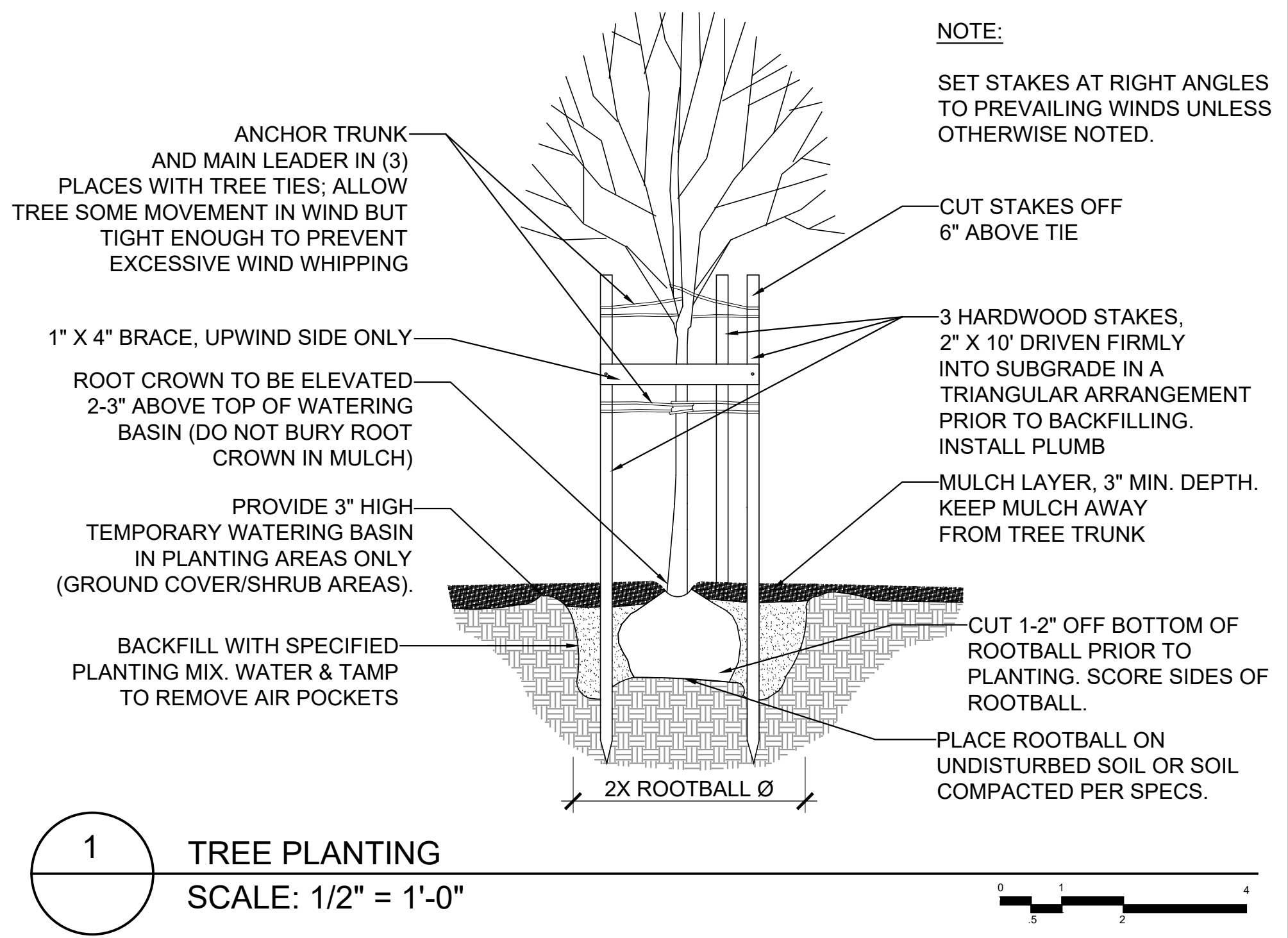
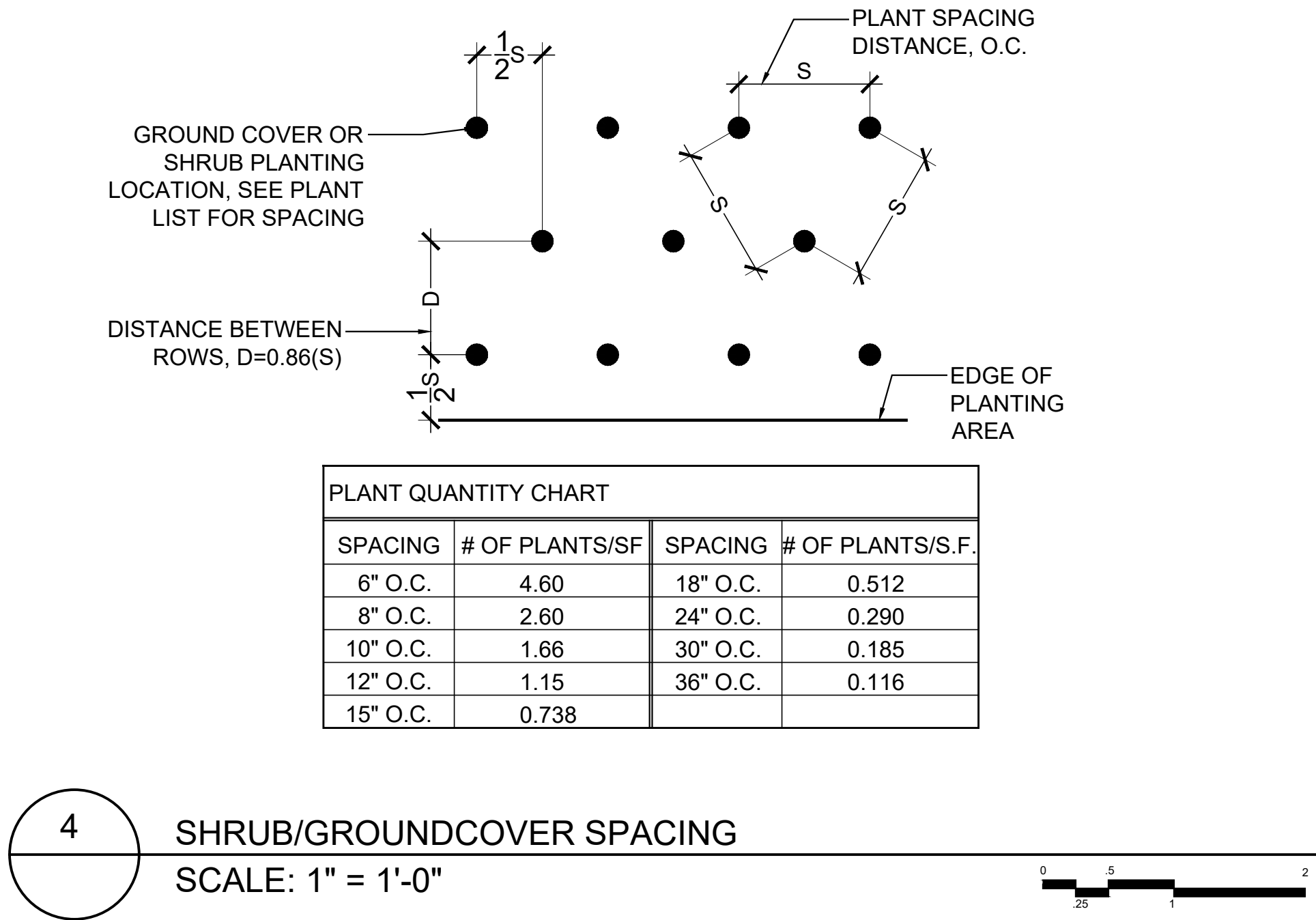
KINDERGARTEN
BUILDING

ADM
BUILDING



PLANTING LEGEND:

- TREES**
- 24" BOX 1 ARBUTUS 'MARINA' MARINA STRAWBERRY TREE
 - 36" BOX 3 QUERCUS BUCKLEYI TEXAS RED OAK
- SHRUBS**
- 1G 7 CEANOTHUS GLORIOSUS 'ANCHOR BAY' ANCHOR BAY CREEPING CEANOTHUS
- PERENNIALS**
- 1G 19 ACHILLEA MILLEFOLIUM COMMON YARROW
 - 1G 17 ANIGOZANTHOS FLAVIDUS 'BUSH GOLD' BUSH GOLD KANGAROO PAW
 - 1G 6 MIMULUS AURANTICUS STICKY MONKEY FLOWER
 - 1G 6 PEROVSKIA ATRIPLICIFOLIA 'LACEY BLUE' LACEY BLUE RUSSIAN SAGE
- GRASSES**
- 1G 14 CHONDROPETALUM TECTORUM CAPE RUSH
 - 1G 22 MUHLENBERGIA RIGENS DEER GRASS
- GRASS**
- RESEED (E) LAWN



FENCE AND GATE NOTES:

- 1. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR FIELD INSTALLATION

PEDESTRIAN GATES:

- 1. GATE LATCH FOR PEDESTRIAN GATES SHALL BE SINGLE-EFFORT AND NON-GRASP HARDWARE, CENTER ON GATE 34" TO 44" ABOVE FINISH GRADE PER CBC11B-309.4 AND 11B-404.2.7. ALL GATE HARDWARE INCLUDING EXIT DEVICE SHALL HAVE A MAX. UNLATCHING FORCE OF 5 LBS. AND SHALL NOT BE MORE THAN ONE OPERATION PER CBC11B-404.2.9.
- 2. CROSS BARS FOR EXIT DEVICE SHALL EXTEND ACROSS NOT LESS THAN HALF OF THE GATE WIDTH
- 3. ATTACH SURECLOSE GATESTOP FOR LIMITED GATE SWING OPENING AS REQUESTED BY SLUSD
- 4. GATE MUST INCLUDE PANIC BAR HARDWARE AS REQUIRED BY FIRE DEPARTMENT. CONTRACTOR TO SELECT APPROPRIATELY SIZED HARDWARE FROM VON DUPRIN, OR OTHERWISE APPROVED MANUFACTURER.
- 5. CONTRACTOR TO VERIFY WITH GATE MANUFACTURER: PRE WELDING OF PANIC BAR HARDWARE MOUNTING HOLES AND INCLUSION OF HYDRAULIC SHUT MECHANISM.
- 6. GATE AND DOORS MUST PROVIDE THE BOTTOM 10" AFF TO BE A SMOOTH SURFACE ON THE PUSH SIDE PER CBC11B-404.2.10
- 7. ALL GATE HARDWARE INCLUDING EXIT DEVICE SHALL HAVE A MAX. UNLATCHING FORCE OF 5 LBS. AND SHALL NOT BE MORE THAN ONE OPERATION PER CBC11B-404.2.9.
- 8. KICK PLATE SURFACE SHALL EXTEND THE FULL WIDTH OF GATE PER CBC11B-404.2.10
- 9. ADD HEADER AS NEED FOR CLOSER ATTACHMENT
- 10. REF L7.1 FOR CLEARANCES FOR GATE SWINGS

VEHICULAR GATES:

- 1. GATE OPERATOR TO BE ANCHOR DRILLED WITH 3/8" X 2" SLEEVE ANCHOR BOLTS
- 2. SED FOR ELECTRICAL CONNECTION
- 3. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR FIELD INSTALLATION
- 4. AUTOMATIC EXIT LOOP & REVERSE LOOP TO BE INSTALLED PER INSTALLATION INSTRUCTIONS
- 5. NEW KNOX BOX SHALL BE INSTALLED WITH THE NEW EMERGENCY VEHICLE ACCESS GATE (20' WIDE GATE).
- 6. OPENING DEVICE TO BE INSTALLED 6' AWAY FROM THE GATE & NOT ACCESSIBLE THROUGH THE GATE. CONTRACTOR TO VERIFY OPENING DEVICE SELECTION & LOCATION W/ SCHOOL DISTRICT
- 7. CONTRACTOR TO TEST AUTOMATED GATE TO ASTM F2200 PER CBC 3110.2

MANEUVERING CLEARANCES

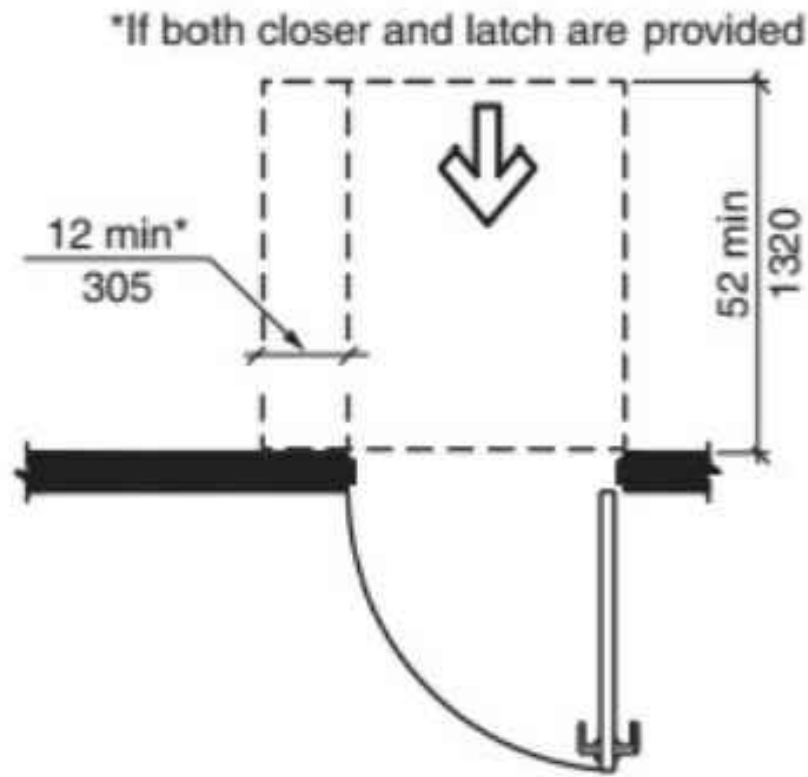


FIGURE 404.2.3.2(B) MANEUVERING CLEARANCE AT MANUAL SWINGING DOORS FRONT APPROACH - PUSH SIDE

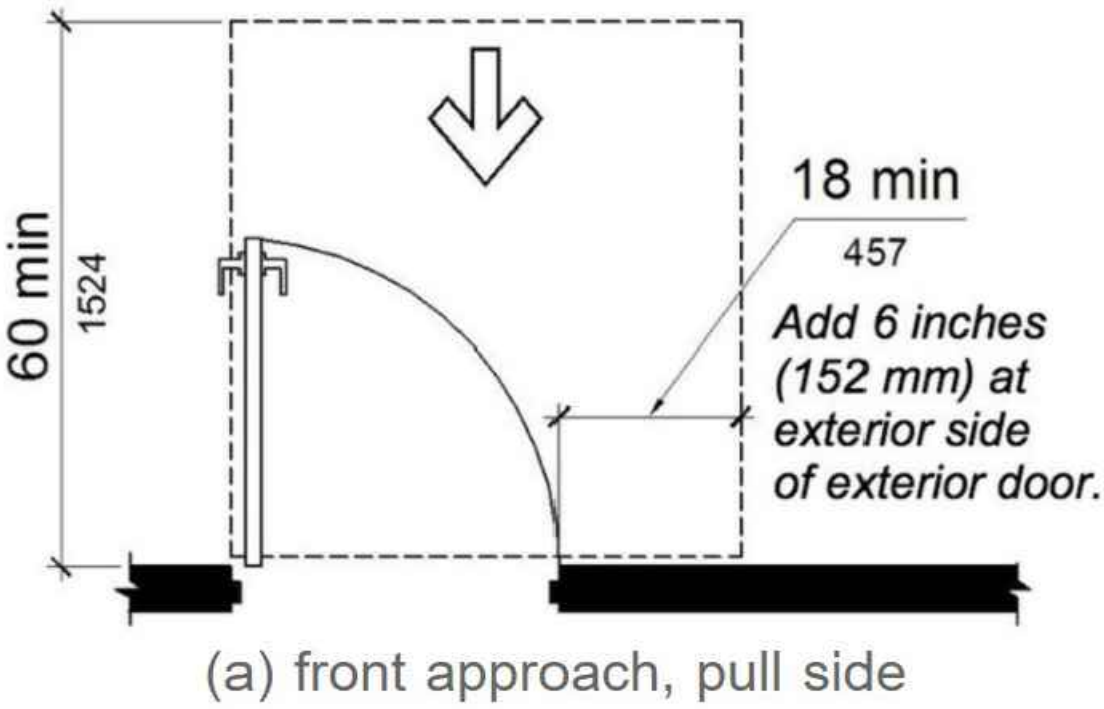


FIGURE 404.2.3.2(A) MANEUVERING CLEARANCE AT MANUAL SWINGING DOORS FRONT APPROACH - PULL SIDE

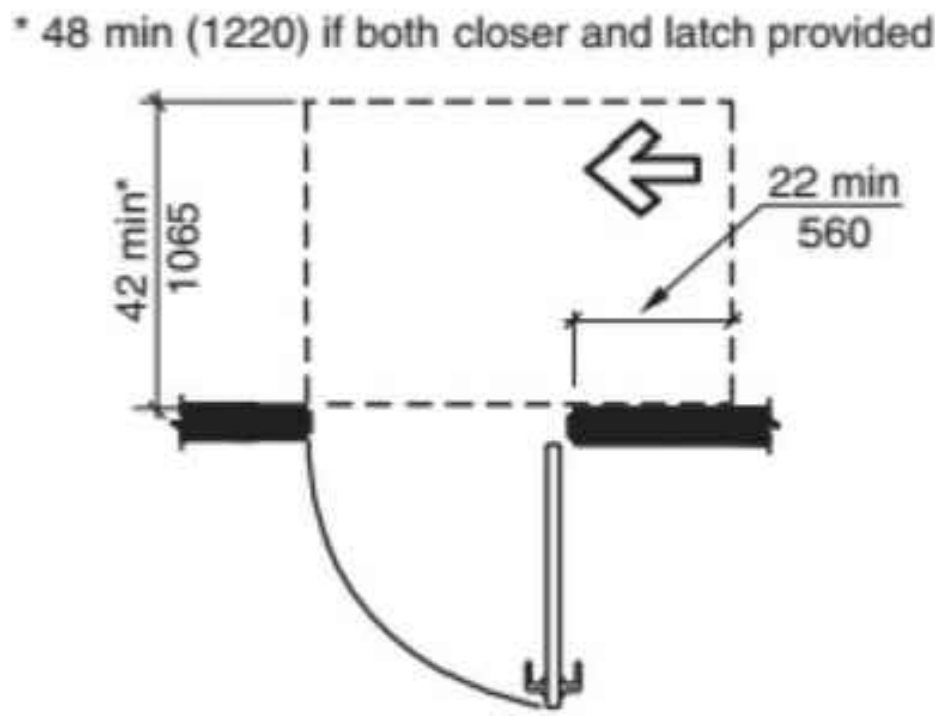


FIGURE 404.2.3.2(F) MANEUVERING CLEARANCE AT MANUAL SWINGING DOORS HINGE APPROACH - PUSH SIDE

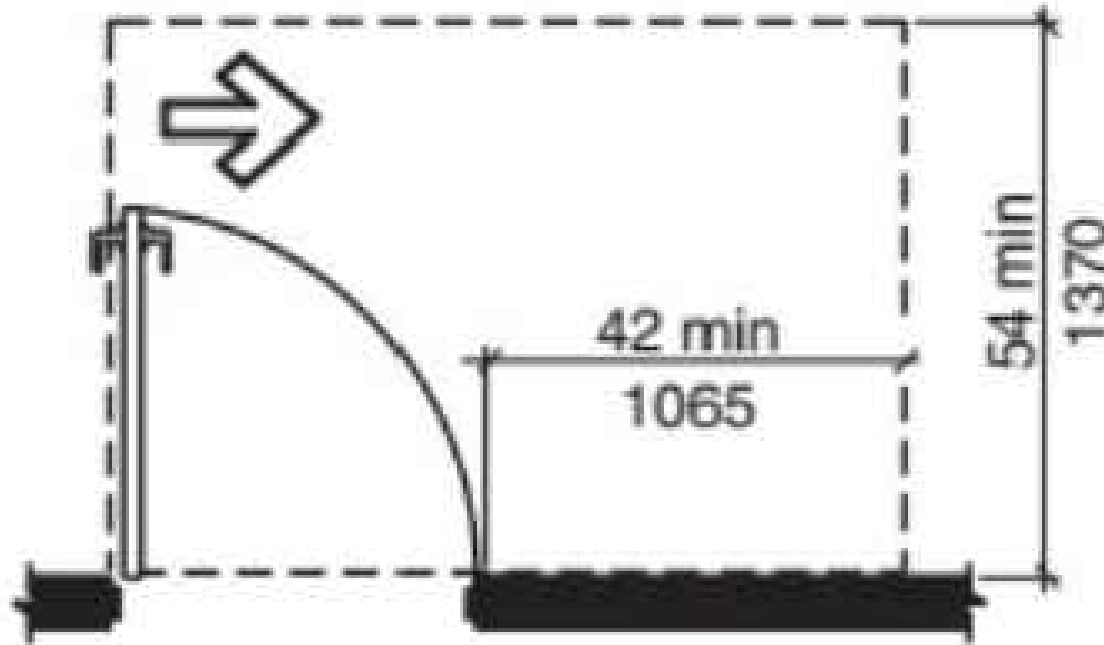
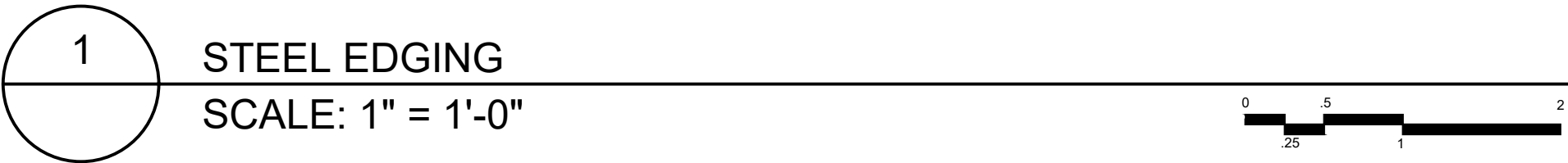
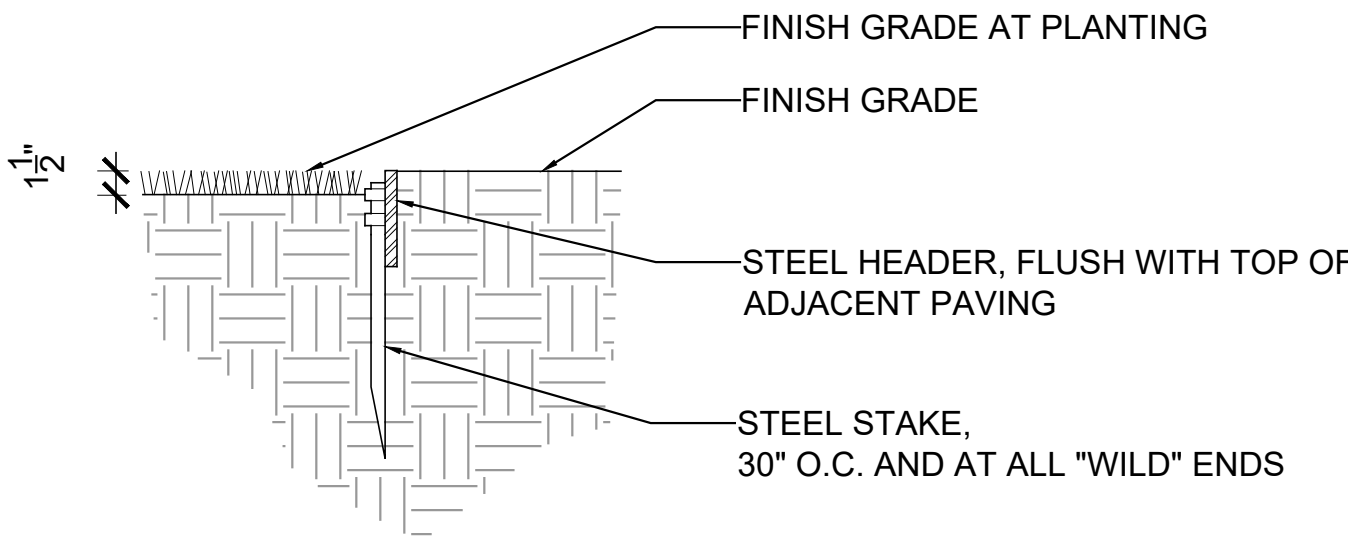
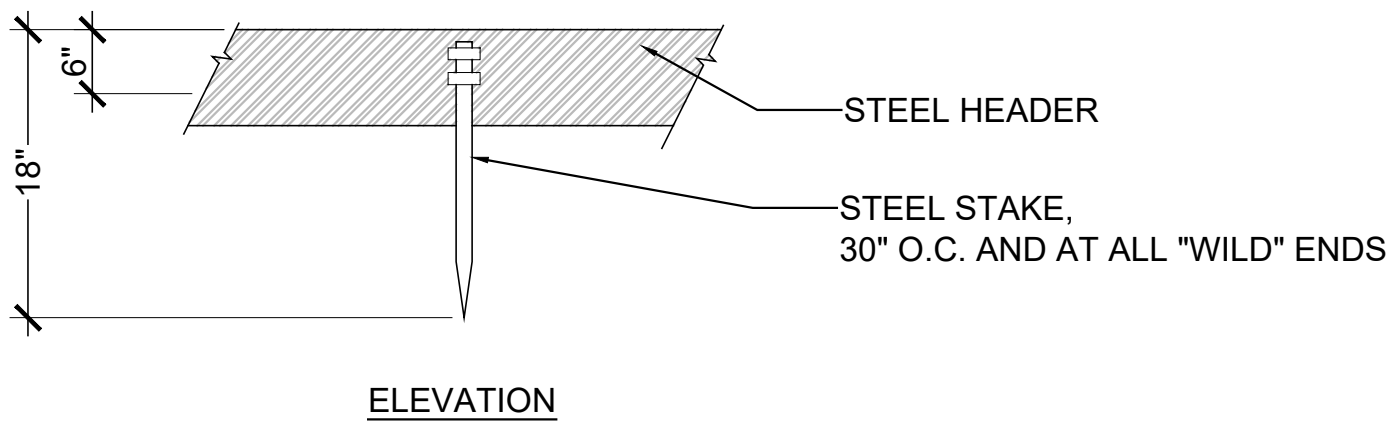
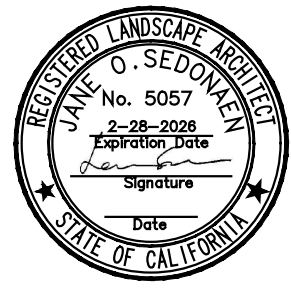


FIGURE 404.2.3.2(E) MANEUVERING CLEARANCE AT MANUAL SWINGING DOORS HINGE APPROACH - PULL SIDE





Jane Sedonaen, Landscape Architect



INTEGRATED
DESIGN
STUDIO
INC.
227 Flamingo Road
Mill Valley, CA 94941
Ph. 415-351-9500
www.integrateddesignstudio.com

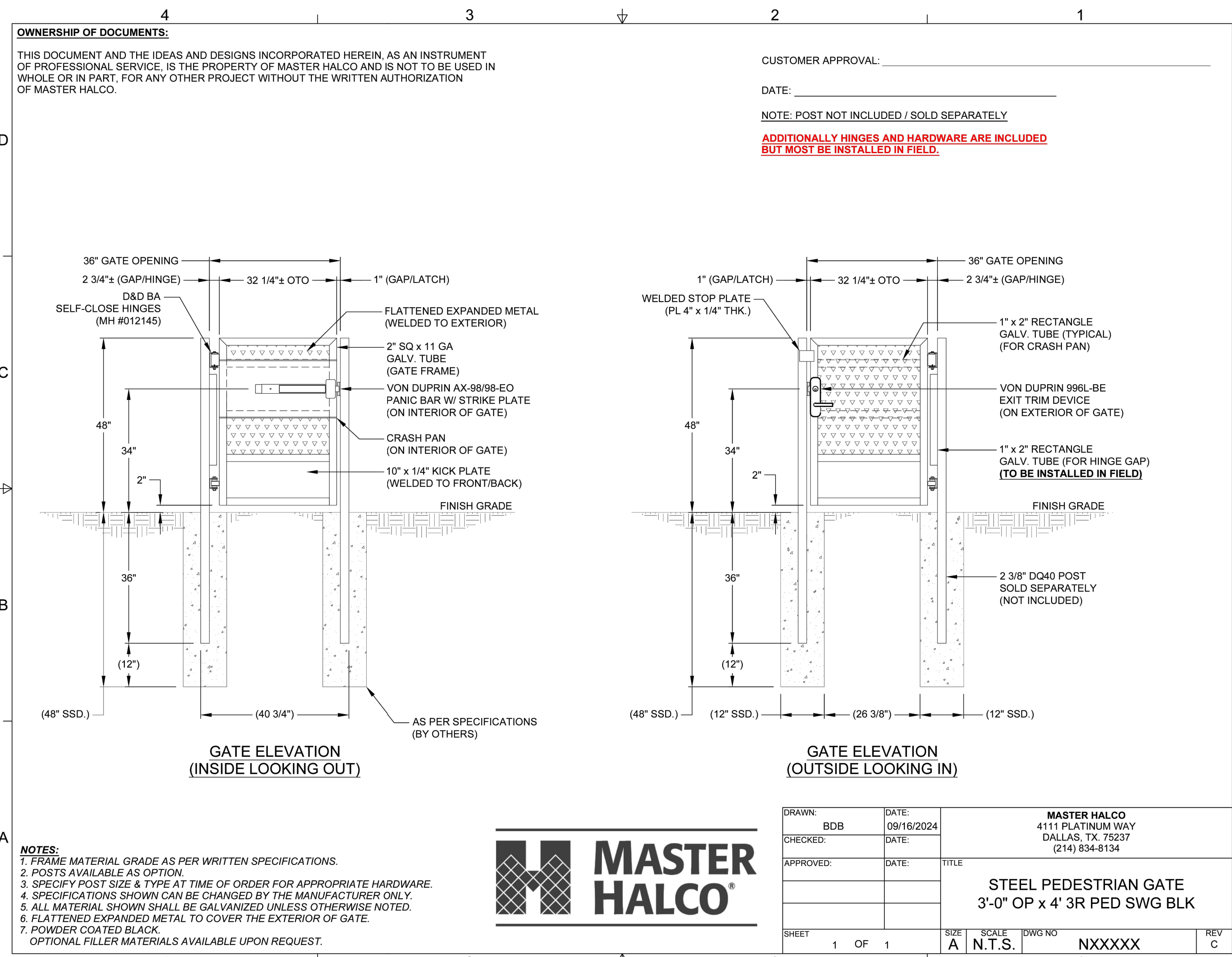
COLEMAN
ELEMENTARY
KINDERGARTEN
PLAY YARD AND
PLAY GROUND
MODERNIZATION
SAN RAFAEL, CA

JOB NO. 23007
DRAWN SG/AS
CHECKED
JOB CAPTAIN
DATE
100% DSA SUBMITTAL 10/01/24

DRAWING TITLE
CONSTRUCTION
DETAILS (2)

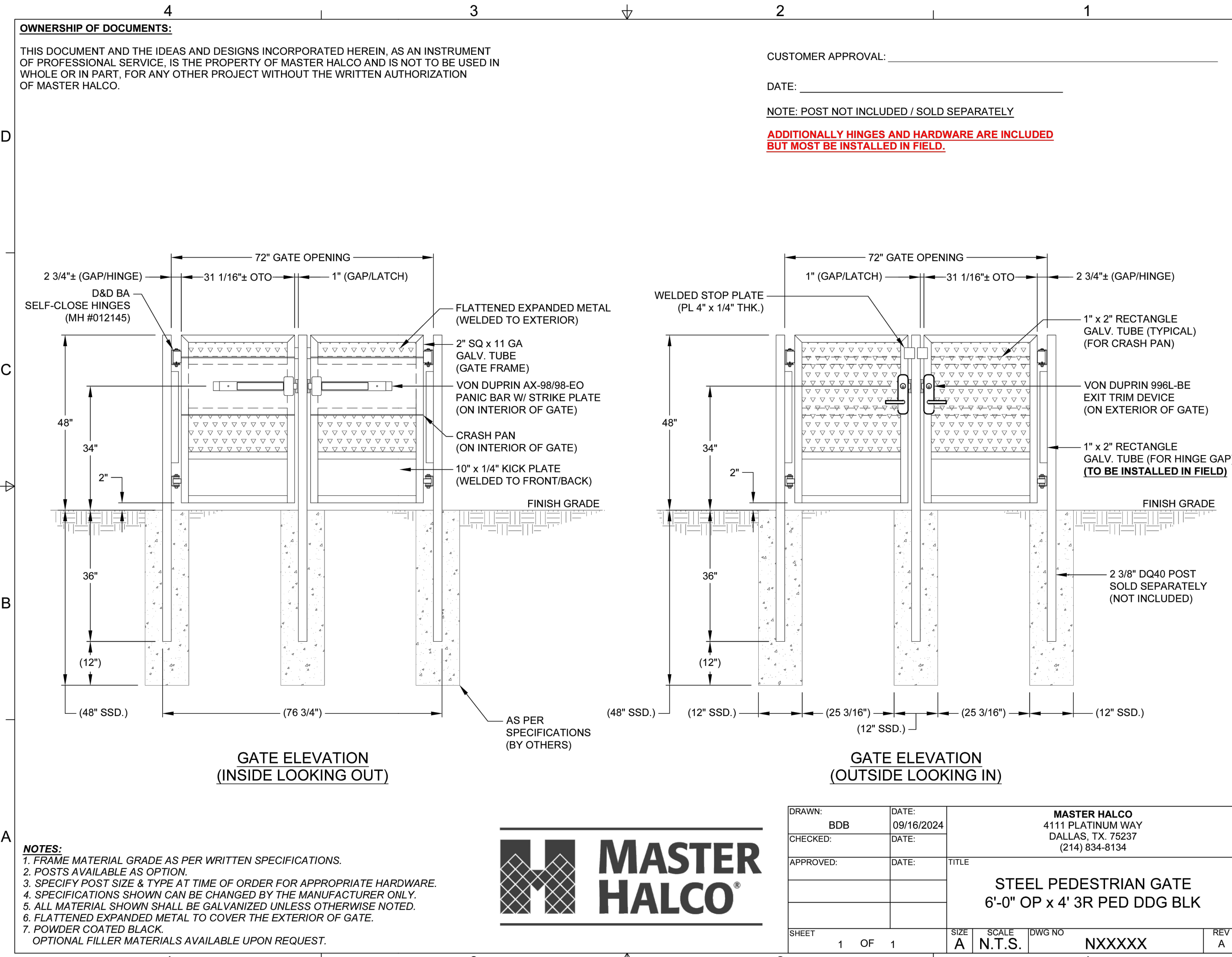
SCALE AS NOTED
L7.1

COPYRIGHT © 2021 HKIT ARCHITECTS



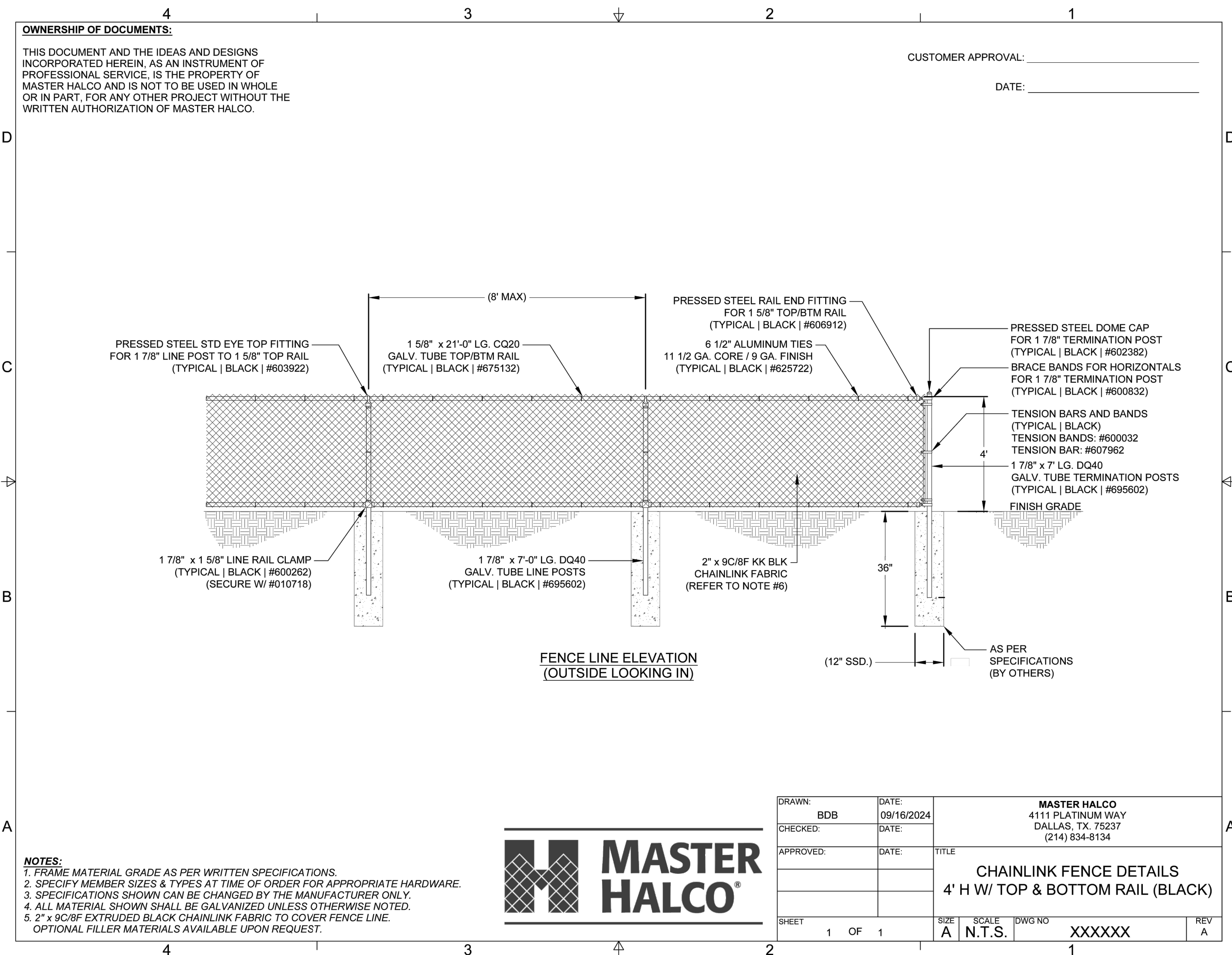
NOTE: SEE FENCE AND GATES NOTES ON L7.0

3 PEDESTRIAN SINGLE SWING GATE
SCALE: N.T.S.



NOTE: SEE FENCE AND GATES NOTES ON L7.0

1 PEDESTRIAN DOUBLE SWING GATE
SCALE: N.T.S.



NOTES:
1. NOT FOR DSA REVIEW
2. SEE FENCE AND GATES NOTES ON L7.0

2 FENCE
SCALE: N.T.S.



Natural Playgrounds Store

Natural Playgrounds Company
85 Warren Street, Concord, NH 03301
Toll Free 888-290-8405
Intl 603-228-0476
Fax 603-228-6018
ethan@naturalplaygrounds.com



Mud Kitchen

HPWP-MUDKITPUMP

Shipping Weight: 180 lbs
Shipping Dimensions: 60"L X 46"W X 27"H
Brand: Natural Playgrounds Company
Toxicity: child friendly wood preservative
Age Appropriateness: 3-10 years



Demonstration Tables

TEACH

Shipping Weight: 220 lbs
Shipping Dimensions: 96"L X 28"W X 10"H
Brand: Natural Playgrounds Company
Toxicity: child friendly wood preservative
Age Appropriateness: all ages

NOTES:
1. TOP MOUNTED
2. METERED FAUCET
3. WATER CONNECTION WITH HOSE BIB TO MUD KITCHEN, SCD.

3 MUD KITCHEN
SCALE: N.T.S.



Natural Playgrounds Store

Natural Playgrounds Company
85 Warren Street, Concord, NH 03301
Toll Free 888-290-8405
Intl 603-228-0476
Fax 603-228-6018
ethan@naturalplaygrounds.com



Sitting Stumps (set of 4)

TSCLP-SS

Shipping Weight: 400 lbs
Shipping Dimensions: 48.00"L X 40.00"W X 22"H
Brand: Natural Playgrounds Company
Toxicity: child friendly wood preservative
Age Appropriateness: all ages

NOTE: REUSE EXISTING STUMPS WHEN POSSIBLE. OPTION TO PILL OFF BARK AND TREATING THE SITTING STUMPS WITH CHILD FRIENDLY PRESERVATIVE.

1 SITTING STUMPS
SCALE: N.T.S.



Natural Playgrounds Store

Natural Playgrounds Company
85 Warren Street, Concord, NH 03301
Toll Free 888-290-8405
Intl 603-228-0476
Fax 603-228-6018
ethan@naturalplaygrounds.com



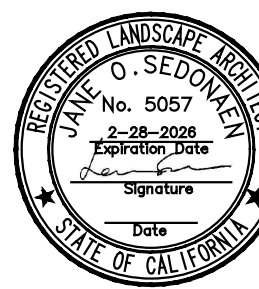
Slab Bench

NF-SB

Shipping Weight: 90 lbs
Shipping Dimensions: 48.00"L X 14"W X 10"H
Brand: Natural Playgrounds Company
Toxicity: child friendly wood preservative
Age Appropriateness: all ages

2 SLAB BENCH
SCALE: N.T.S.

HKITARCHITECTS
538 NINTH STREET SUITE 240 • OAKLAND, CA 94607
T 510 625 9800 • F 510 625 9801 • WWW.HKIT.COM



Jane Sedonaen, Landscape Architect



INTEGRATED
DESIGN
STUDIO
INC.
227 Flamingo Road
Mill Valley, CA 94941
Ph 415-351-9500
www.integrateddesignstudio.com

COLEMAN
ELEMENTARY
KINDERGARTEN
PLAY YARD AND
PLAY GROUND
MODERNIZATION
SAN RAFAEL, CA

JOB NO. 23007
DRAWN SG/AS
CHECKED
JOB CAPTAIN
DATE
100% DSA SUBMITTAL 10/01/24

DRAWING TITLE
CONSTRUCTION
DETAILS (3)

SCALE AS NOTED
L7.2

COPYRIGHT © 2021 HKIT ARCHITECTS



Natural Playgrounds Store

Natural Playgrounds Company
85 Warren Street, Concord, NH 03301
Toll Free 888-290-8405
Intl 603-228-0476
Fax 603-228-6018
ethan@naturalplaygrounds.com

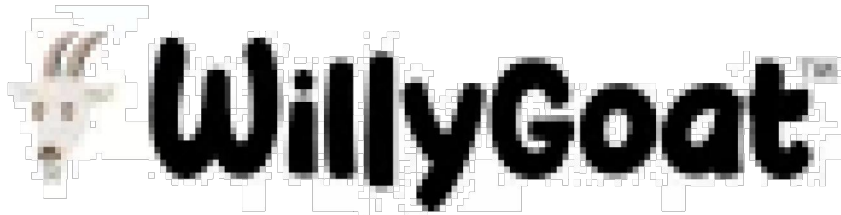


Log Mazes

log
Shipping Weight: 2560 lbs
Shipping Dimensions: 95"L X 40"W X 28"H
Brand: Natural Playgrounds Company
Toxicity: non-toxic
Age Appropriateness: all ages

NOTE: 3 LOG MAZE & REUSE EXISTING STUMPS WHEN POSSIBLE

1 LOG MAZES
SCALE: N.T.S.



05/15/2024

Fun Shot Funhoop - 4 to 6 Foot, Permanent or Portable

Brand: Infinity Playgrounds
Price: \$355.00

Features:
Great for Hand-Eye Coordination
Varying Height for Different Ages
Portable or Permanent

Product Specifications:
Equipment Weight: 31 lb
Installed Dimensions: 4 ft x 6 ft
.usa-bw-green{fill:#2f734f;stroke:none;} .usa-bw-dark-green{fill: #193d2a;stroke: none; } Made In USA
ASTM Certified
CPSC Certified

Description:
This Fun-Shot Basketball Goal promotes cooperative play while developing hand-eye coordination and gross motor skills. Permanent option must be installed in-ground using concrete.



- NOTE:
- ATTACH NET TO FRAME
 - ALIGN THE NET FRAME WITH THE HOLE IN THE POST AND INSERT THE 1/2" BOLT THROUGH THE HOLE.
 - INSERT THE SET SCREW INTO THE COLLAR AND TIGHTEN WITH ALLEN HEAD WRENCH.
 - LOCATE THE AREA FOR THE FUN SHOT AND DIG A 12" DIAMETER HOLE APPROXIMATELY 18" DEEP.
 - PLACE THE ASSEMBLED FUN SHOT INTO THE HOLE LEVEL AND PLUM.
 - POUR CONCRETE INTO THE HOLE LEAVING ABOUT 3" BELOW GROUND LEVEL.
 - LET CONCRETE SET UP AND THE BACK-FILL HOLE WITH DIRT.

2 FUN SHOT FUNHOOP
SCALE: N.T.S.

HKITARCHITECTS
538 NINTH STREET SUITE 240 • OAKLAND, CA 94607
T 510 625 9800 • F 510 625 9801 • WWW.HKIT.COM



Jane Sedonaen, Landscape Architect



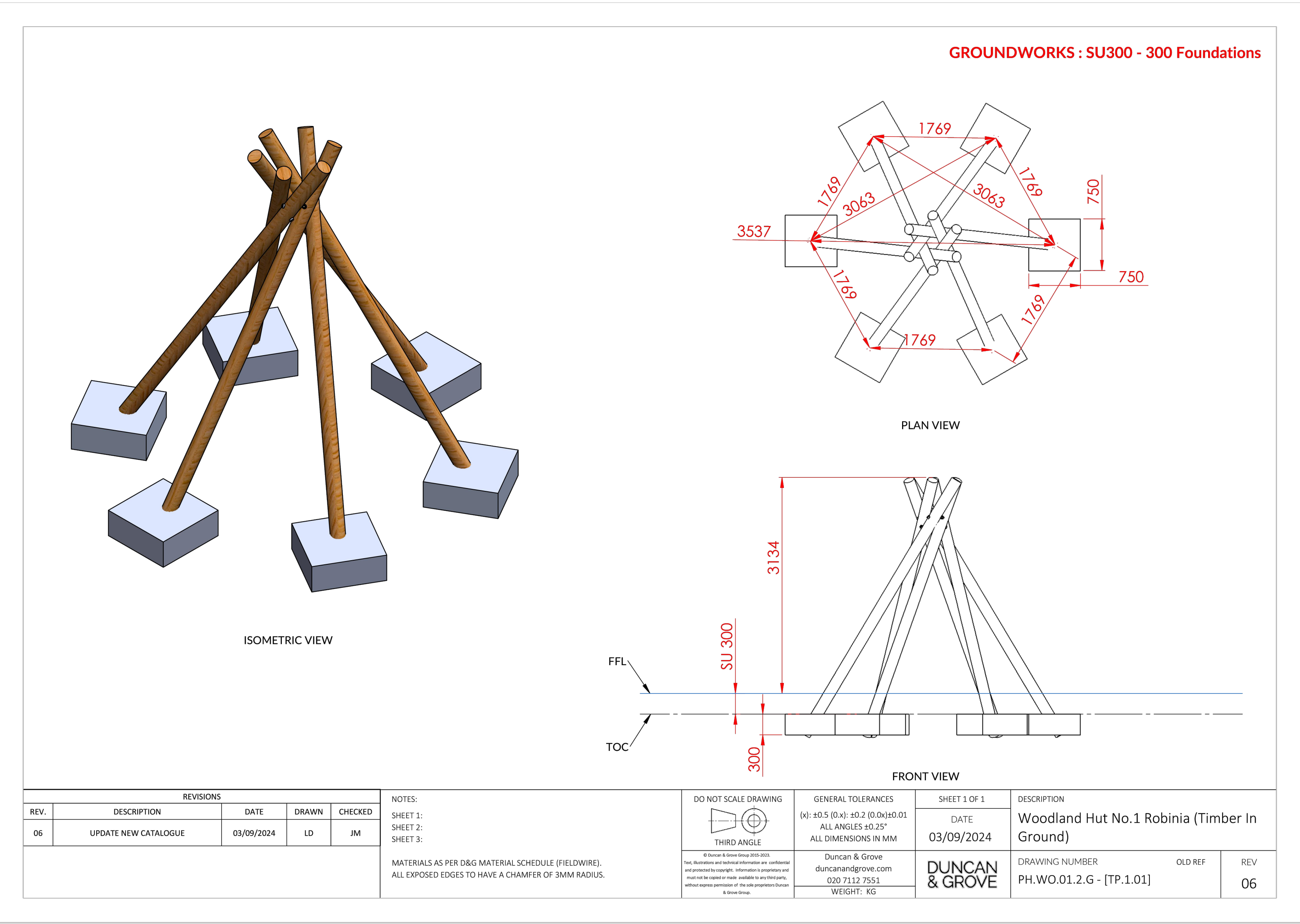
COLEMAN
ELEMENTARY
KINDERGARTEN
PLAY YARD AND
PLAY GROUND
MODERNIZATION
SAN RAFAEL, CA

JOB NO. 23007
DRAWN SG/AS
CHECKED
JOB CAPTAIN
DATE 100% DSA SUBMITTAL 10/01/24

DRAWING TITLE
CONSTRUCTION
DETAILS (4)

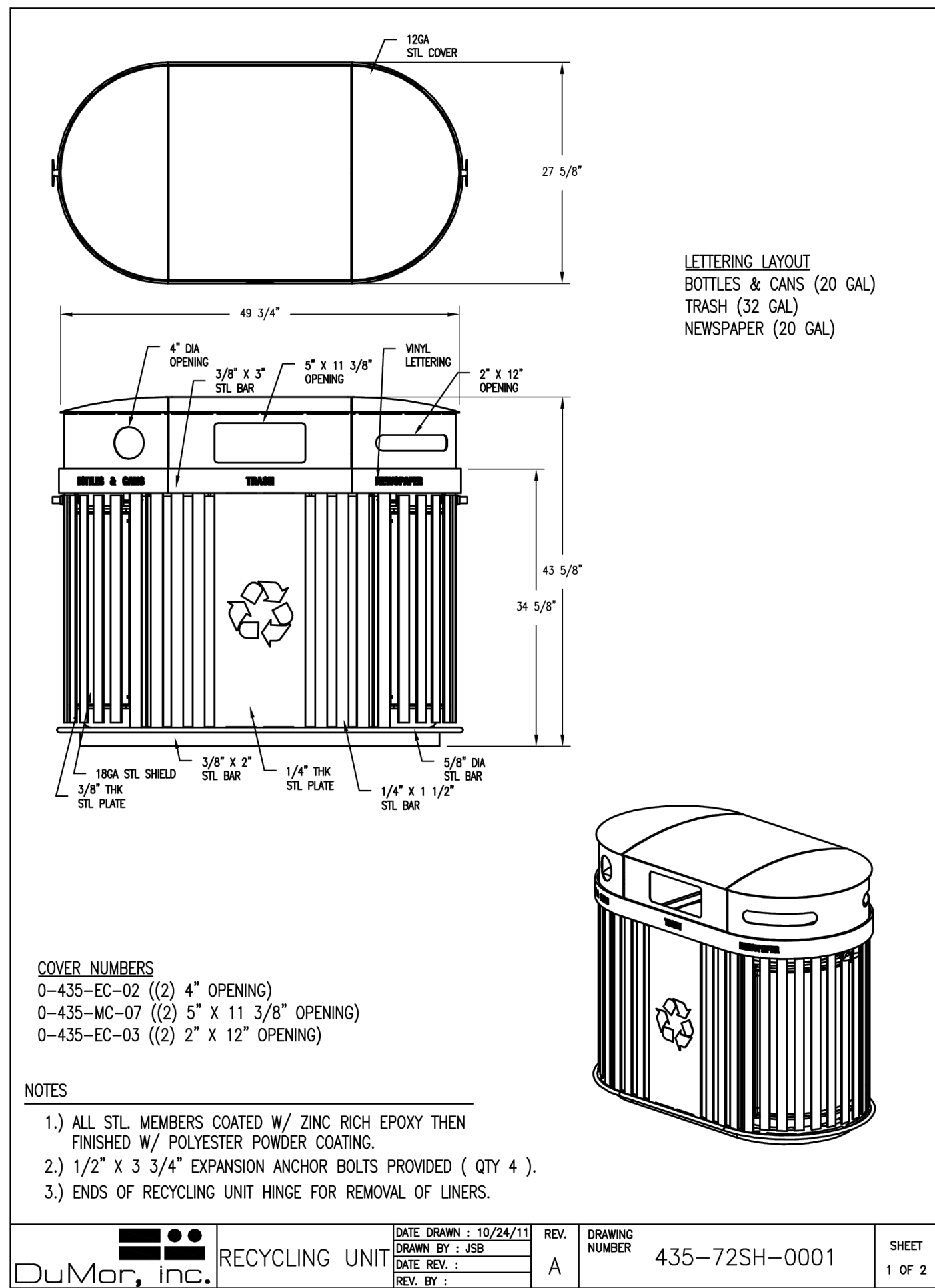
SCALE AS NOTED
L7.3

COPYRIGHT © 2021 HKIT ARCHITECTS



NOTE: MODIFY SPACING BETWEEN POSTS AS NEEDED
FOR VISIBILITY AT ANY ANGLE FOR SUPERVISION

3 TREE FORT
SCALE: N.T.S.

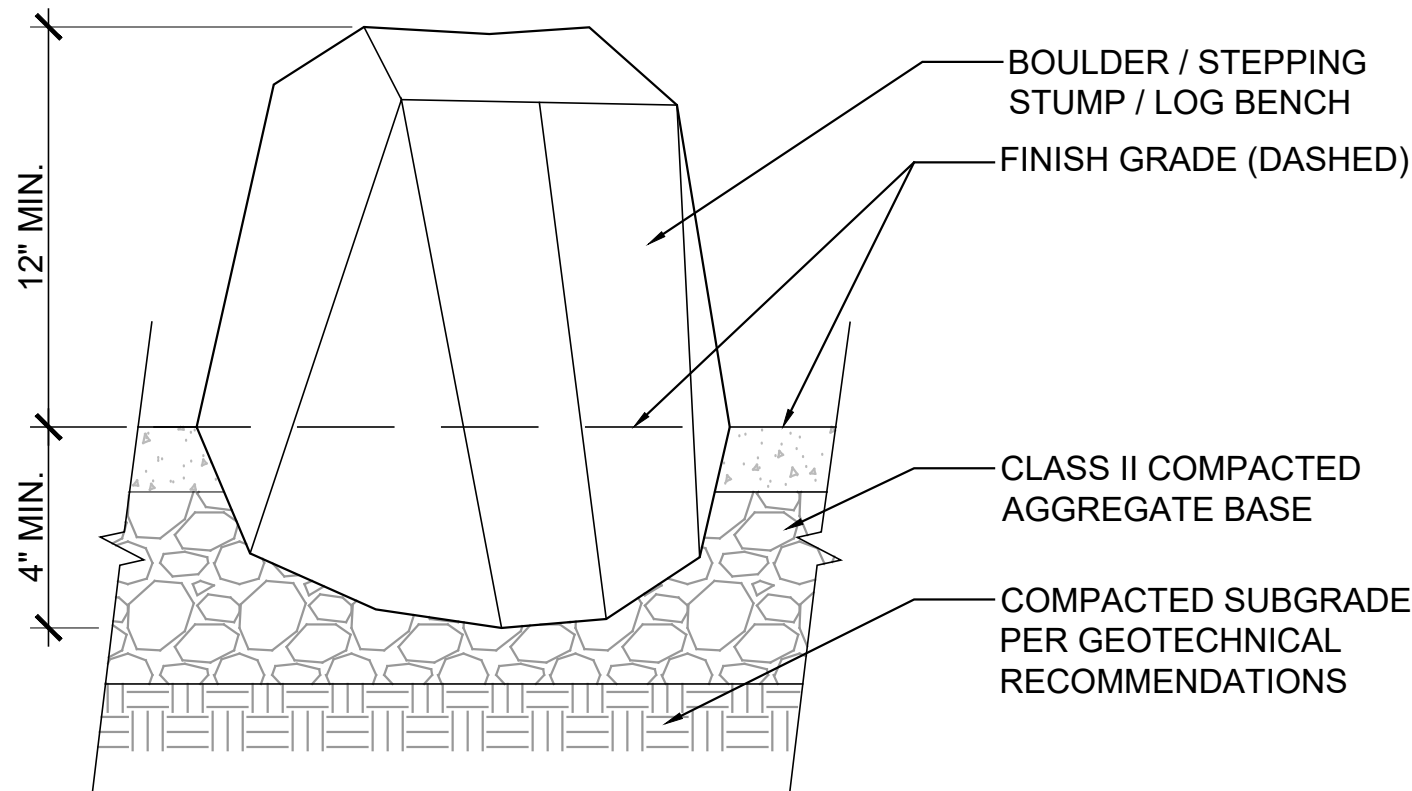


435 Recycling Container

Project / Customer Name: _____
Purchase Order Number: _____
Drawing Number: _____
DuMor Representative Name: _____

MODEL	435-64 435-64SH	435-72 435-72SH	435-80 435-80SH
Body Color	two 12-gallon bins	one 12-gallon & two 20-gallon bins	four 20-gallon bins
Choose a lid from each row	2 openings 3 color options	3 openings 3 color options	4 openings 4 color options
Lid opening shape options:	2" x 12" 4" dia 5" x 10" End only	5" x 11 3/8" Screen only 2" x 12" 4" dia 5" x 10" End only	2" x 12" 4" dia 5" x 10" End only
OPENING OPTIONS	<input type="checkbox"/> 2" dia <input type="checkbox"/> 4" dia (middle cover has no hole) <input type="checkbox"/> 5" x 10" <input type="checkbox"/> 2" x 12" <input type="checkbox"/> 4" dia <input type="checkbox"/> 5" x 10" <input type="checkbox"/> 2" x 12"	<input type="checkbox"/> 2" dia <input type="checkbox"/> 4" dia <input checked="" type="checkbox"/> 5" x 11 3/8" <input checked="" type="checkbox"/> 5" x 10" <input type="checkbox"/> 2" x 12" <input type="checkbox"/> 4" dia <input type="checkbox"/> 5" x 10" <input type="checkbox"/> 2" x 12"	<input type="checkbox"/> 2" dia <input type="checkbox"/> 4" dia <input type="checkbox"/> 5" x 10" <input type="checkbox"/> 2" x 12" <input type="checkbox"/> 4" dia <input type="checkbox"/> 5" x 10" <input type="checkbox"/> 2" x 12"
Lid Color	Lid Color	Lid Color	Lid Color
Choose labeling if applicable	<input type="checkbox"/> BOTTLES & CANS <input type="checkbox"/> NEWSPAPER <input type="checkbox"/> TRASH <input type="checkbox"/> Other write in (Min 10 CHAR spaces)	<input type="checkbox"/> BOTTLES & CANS <input type="checkbox"/> NEWSPAPER <input type="checkbox"/> TRASH <input checked="" type="checkbox"/> RECYCLING <input type="checkbox"/> Other write in (Min 10 CHAR spaces)	<input type="checkbox"/> BOTTLES & CANS <input type="checkbox"/> NEWSPAPER <input type="checkbox"/> TRASH <input type="checkbox"/> Other write in (Min 10 CHAR spaces)
Liner Concealing Shield Option	<input type="checkbox"/> No <input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Yes
Shield Color	Shield Color	Shield Color	Shield Color

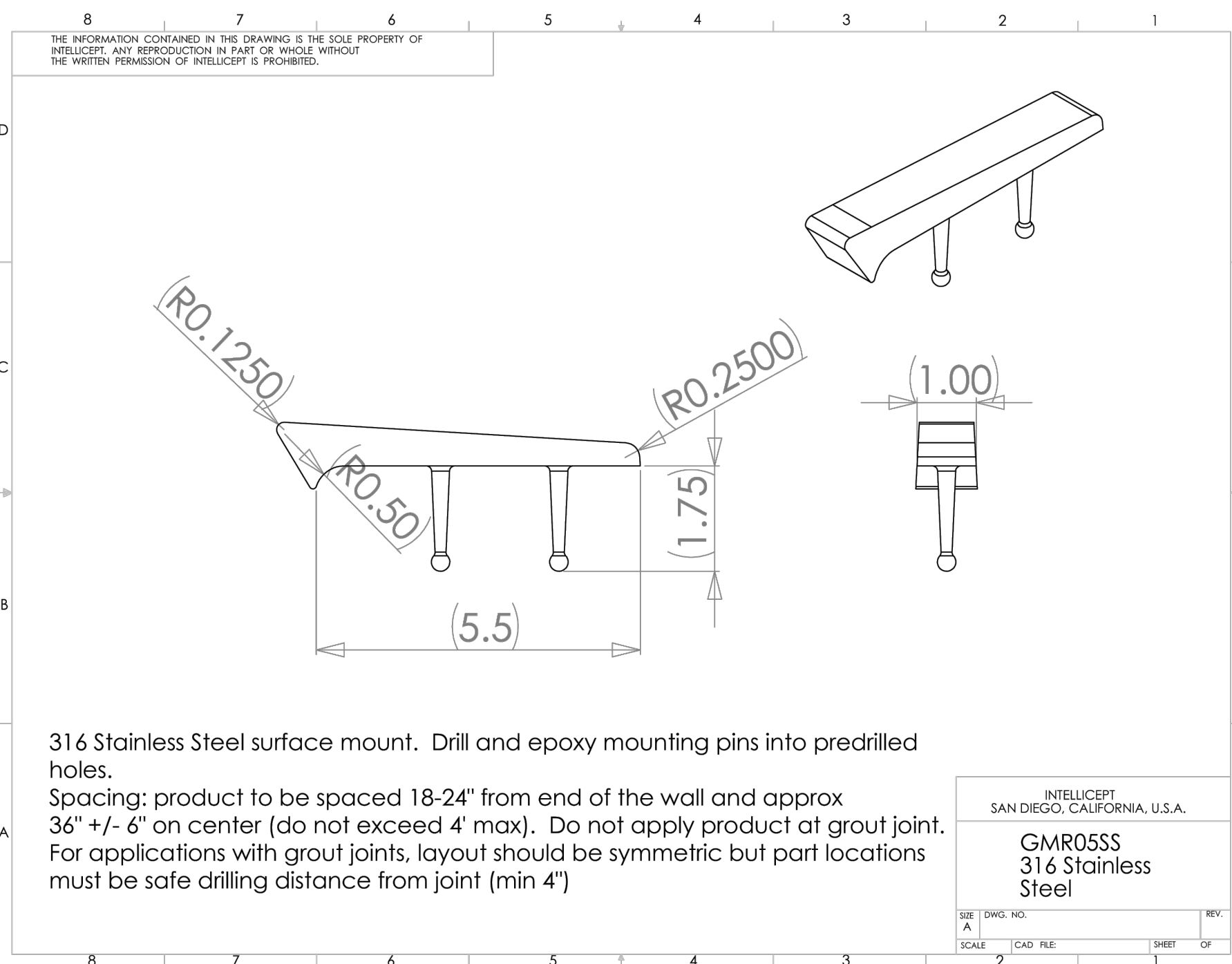
RESET PRINT SAVE AS PDF



- NOTES:**
1. CONTRACTOR CONFIRM BOULDER SELECTION WITH CLIENT PRIOR TO PURCHASE/ INSTALL
 2. CONFIRM BOULDER PLACEMENT WITH CLIENT PRIOR TO FINAL PLACEMENT/ CONCRETE POUR
 3. INSTALL BOULDER WITH A MINIMUM OF 1/3 OF STONE BELOW FINISH GRADE

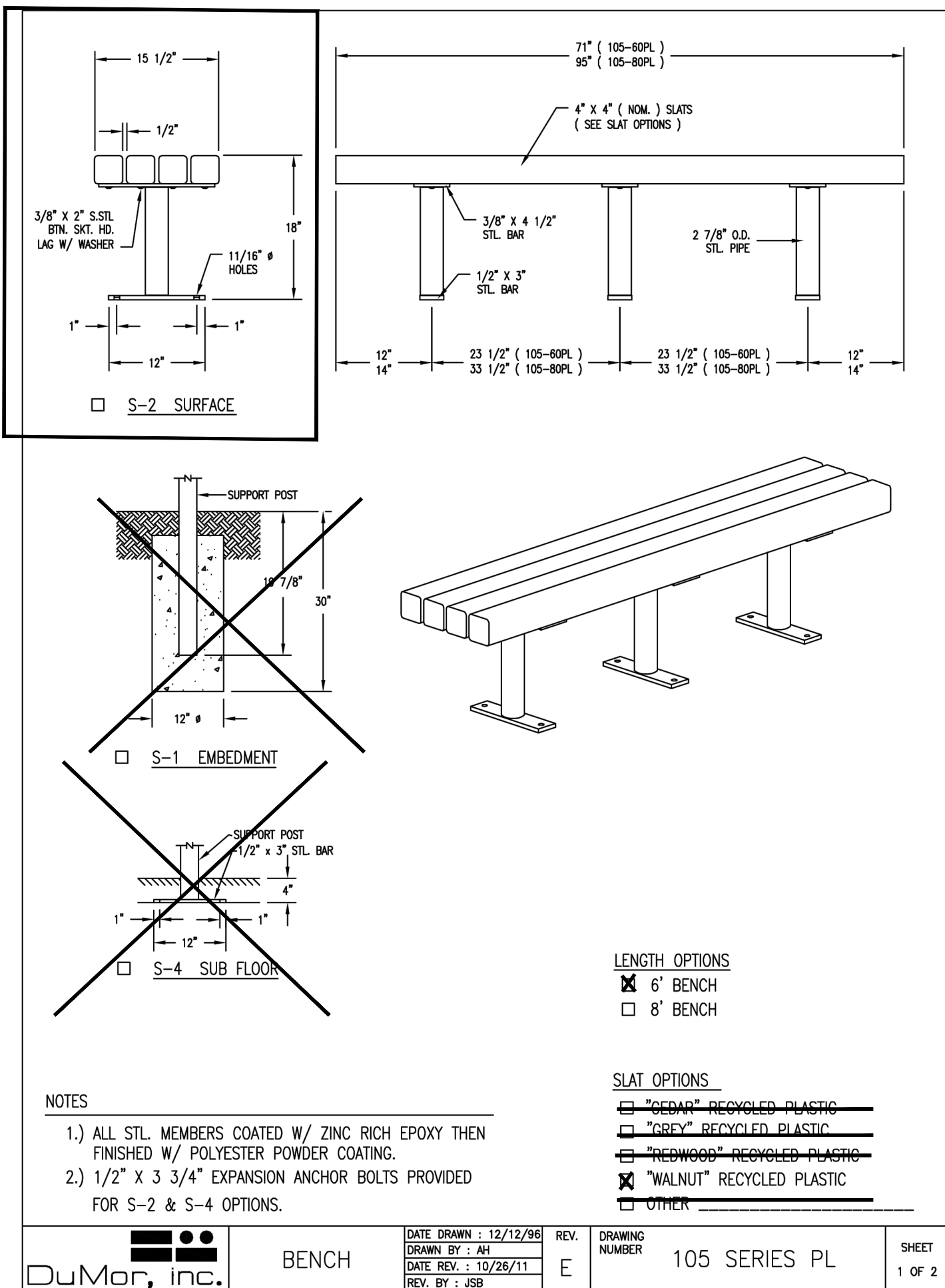
1 BOULDER PLACEMENT ON GRADE
SCALE: 1" = 1'-0"

3 RECYCLING & TRASH UNIT
SCALE: N.T.S.



- NOTES:**
1. 316 STAINLESS STEEL SURFACE MOUNT. DRILL AND EPOXY MOUNTING PINS INTO PREDRILLED HOLES.
 2. SPACING: INSTALL SKATE STOPS AT 36" O.C., AND NO MORE THAN 18-24" FROM END OF WALLS. (DO NOT EXCEED 4" MAX).
 3. DO NOT APPLY PRODUCT AT GROUT JOINT. FOR APPLICATIONS WITH GROUT JOINTS, LAYOUT SHOULD BE SYMMETRIC BUT PART LOCATIONS MUST BE SAFE DRILLING DISTANCES FROM JOINT (MIN 4").
 4. INSTALL PER MANUFACTURER SPECIFICATIONS AT ALL SEAT WALL, SCD.

4 SKATE STOPPPER
SCALE: N.T.S.



2 BENCH
SCALE: N.T.S.

HKITARCHITECTS
538 NINTH STREET SUITE 240 • OAKLAND, CA 94607
T 510 625 9800 • F 510 625 9801 • WWW.HKIT.COM



Jane Sedonaen, Landscape Architect

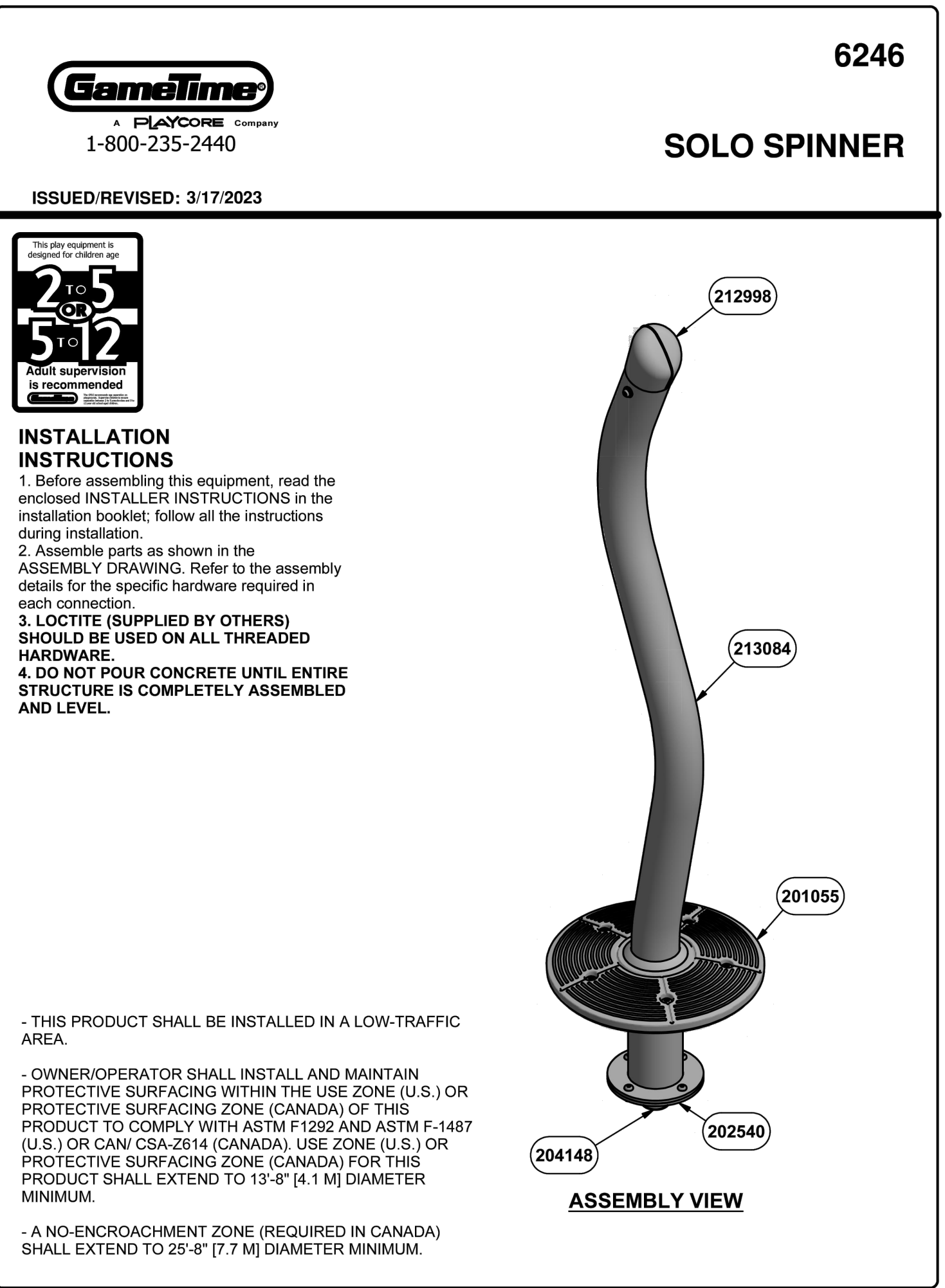
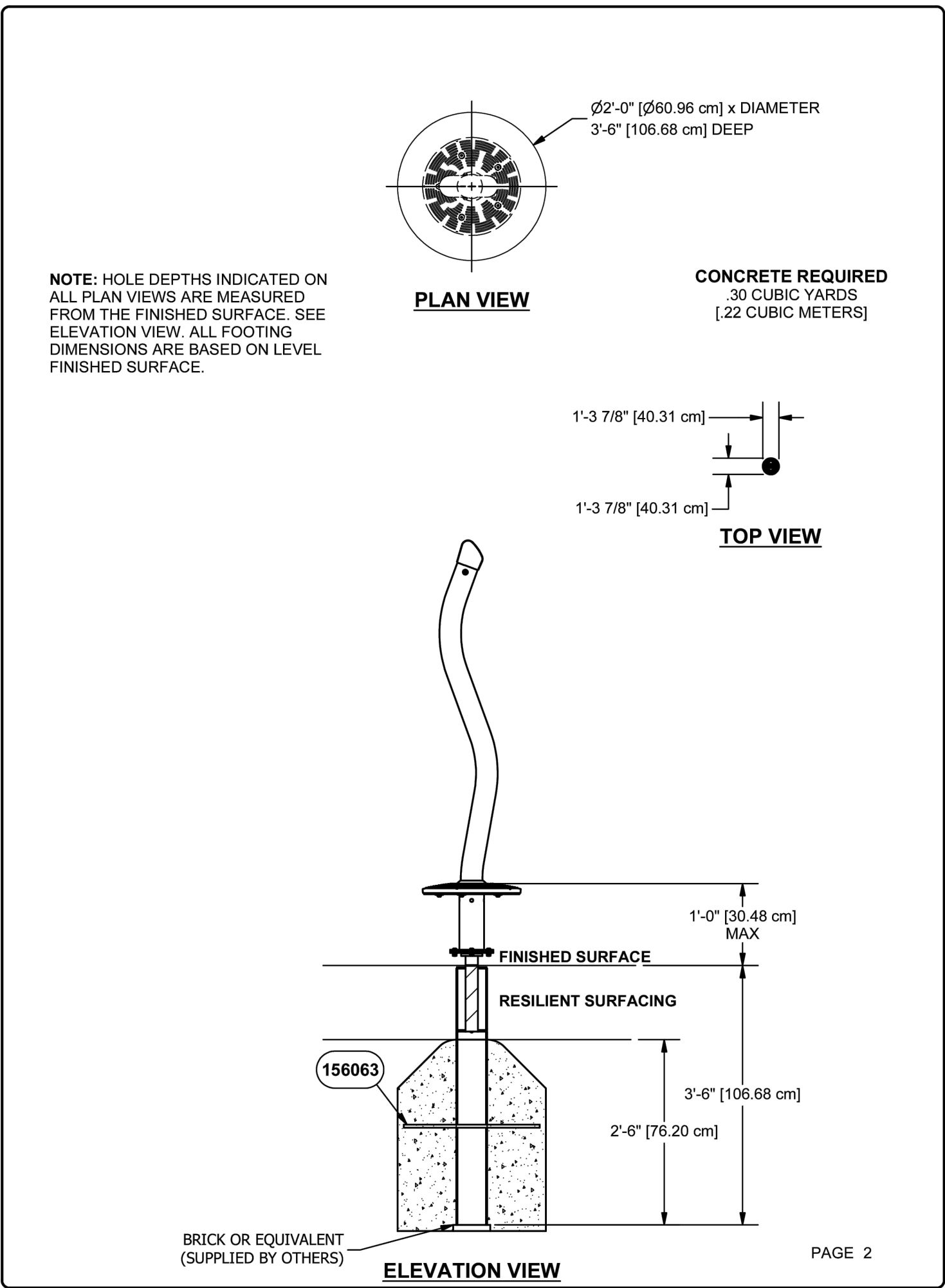
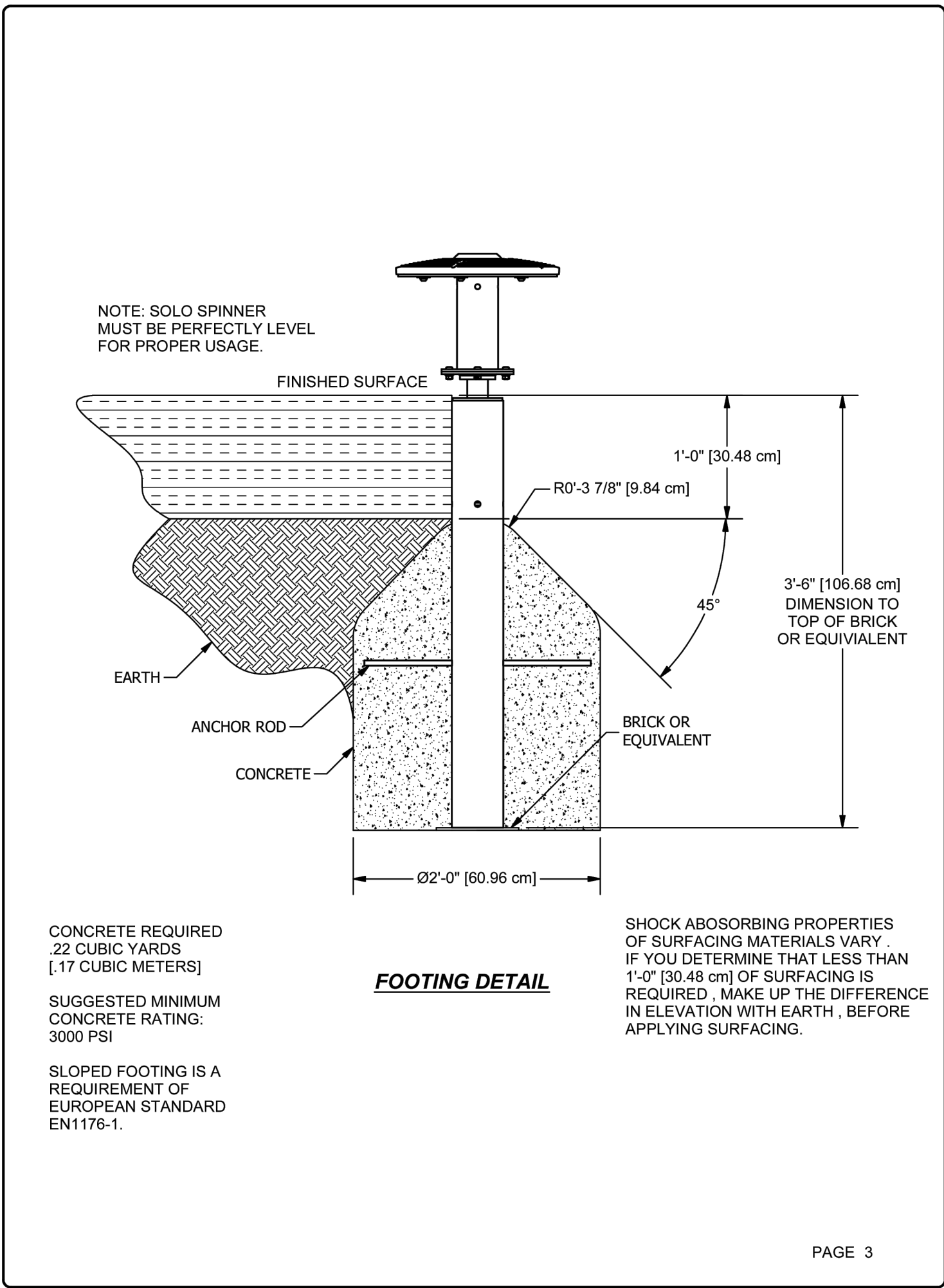
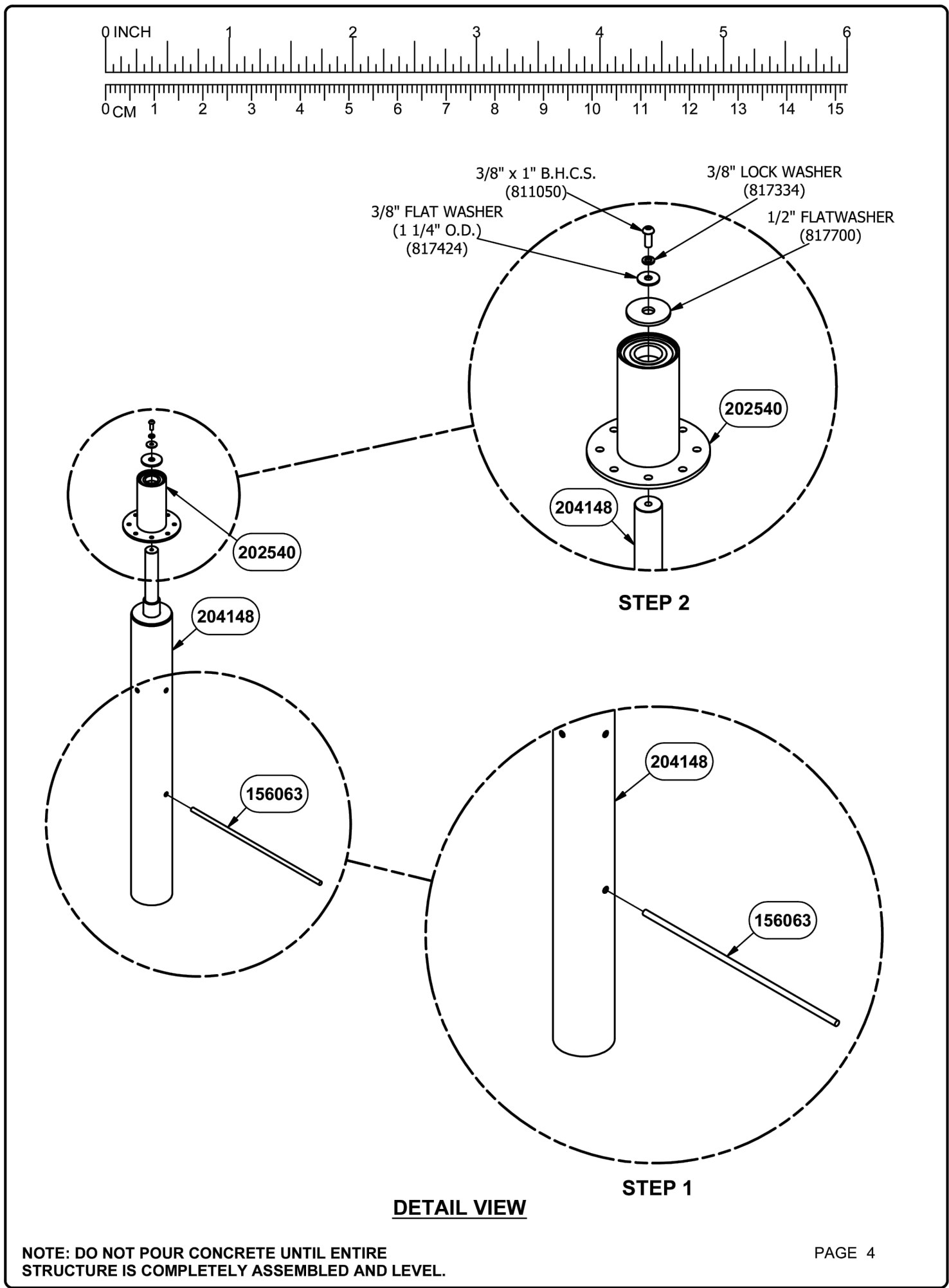
Integrated Design Studio
227 Flamingo Road
Mill Valley, CA 94941
Ph: 415-351-9500
www.integrateddesignstudio.com

COLEMAN ELEMENTARY KINDERGARTEN PLAY YARD AND PLAY GROUND MODERNIZATION
SAN RAFAEL, CA

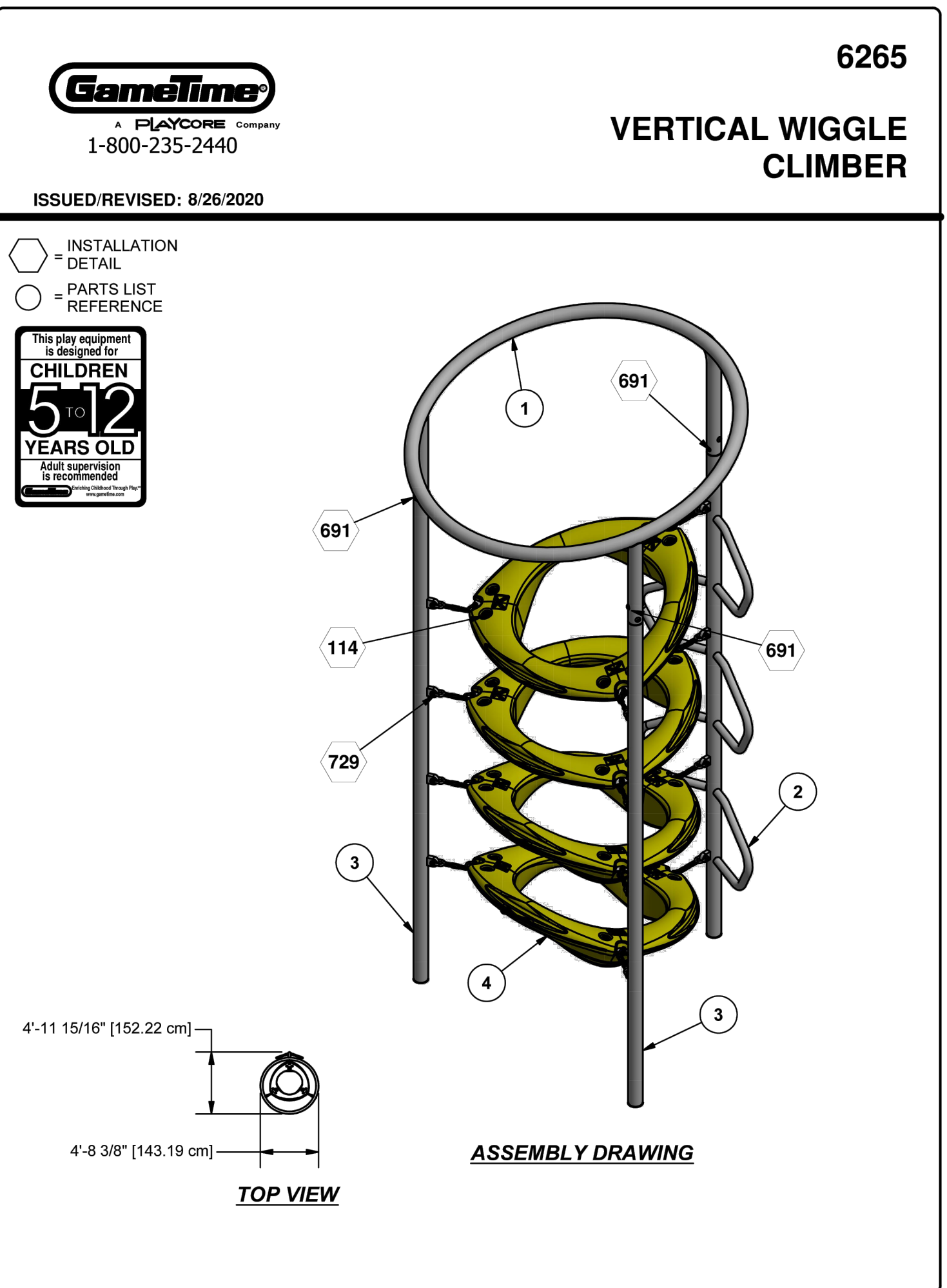
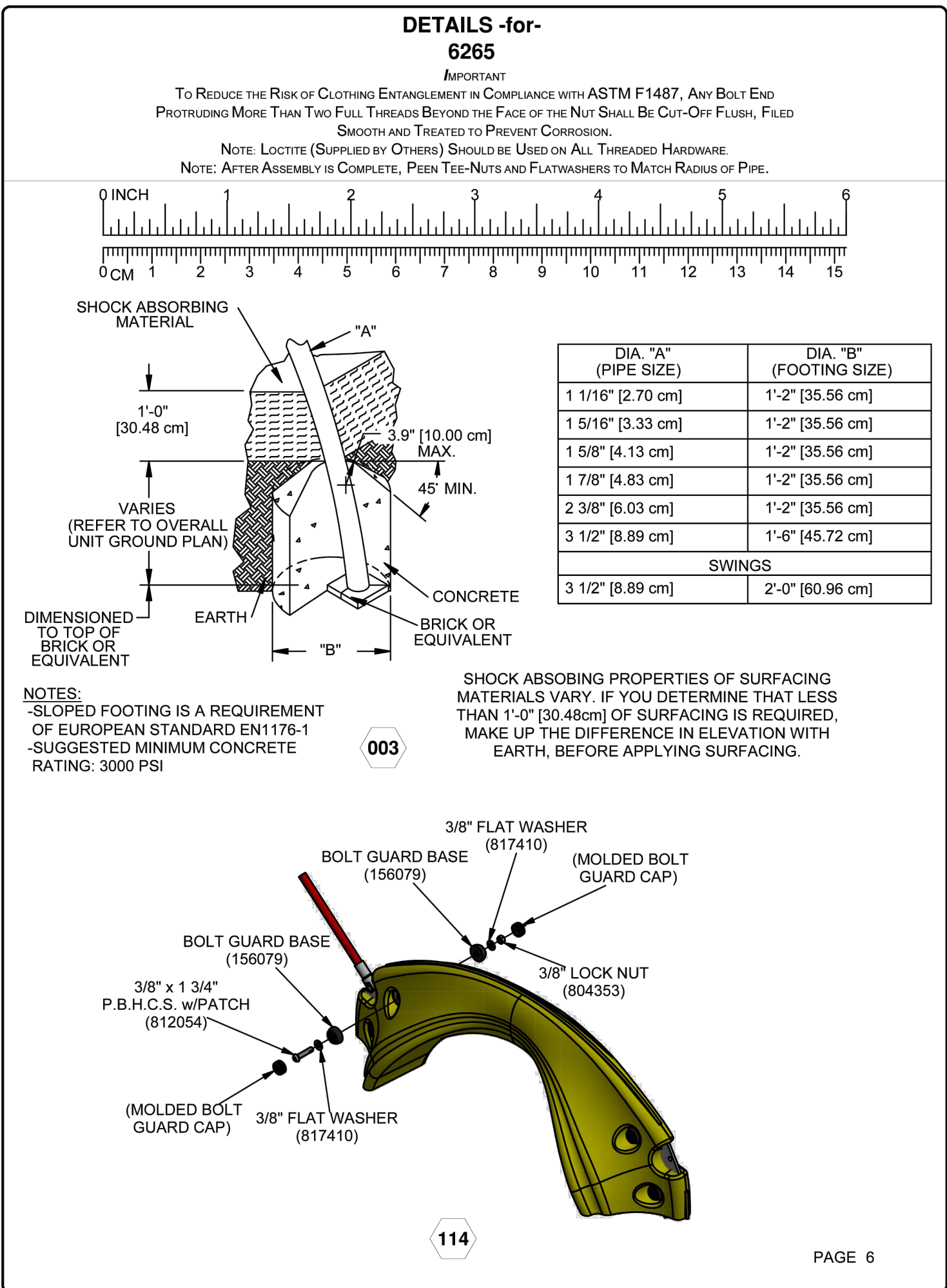
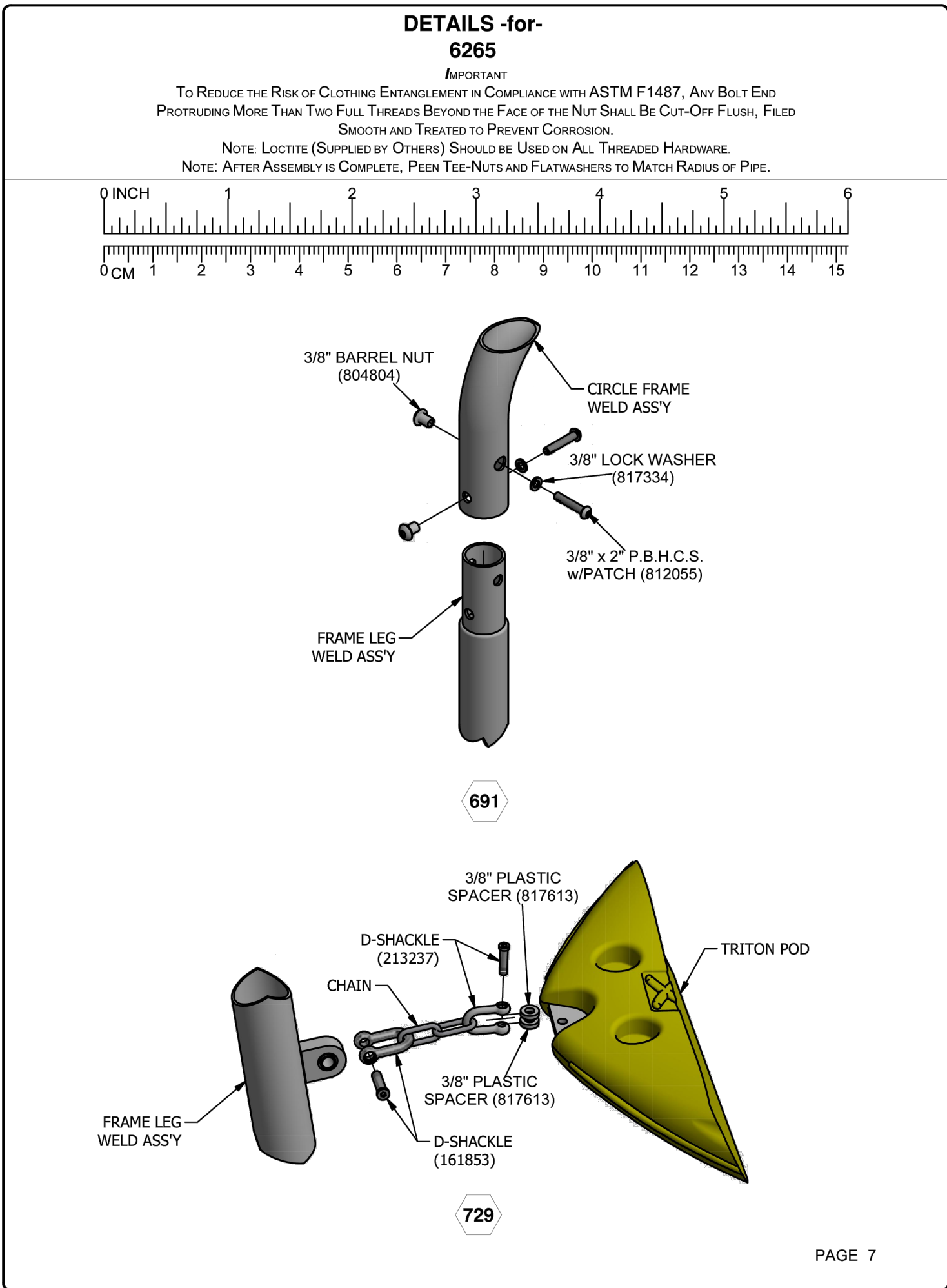
JOB NO. 23007
DRAWN SG/AS
CHECKED
JOB CAPTAIN
DATE 100% DSA SUBMITTAL 10/01/24

DRAWING TITLE
CONSTRUCTION DETAILS (5)

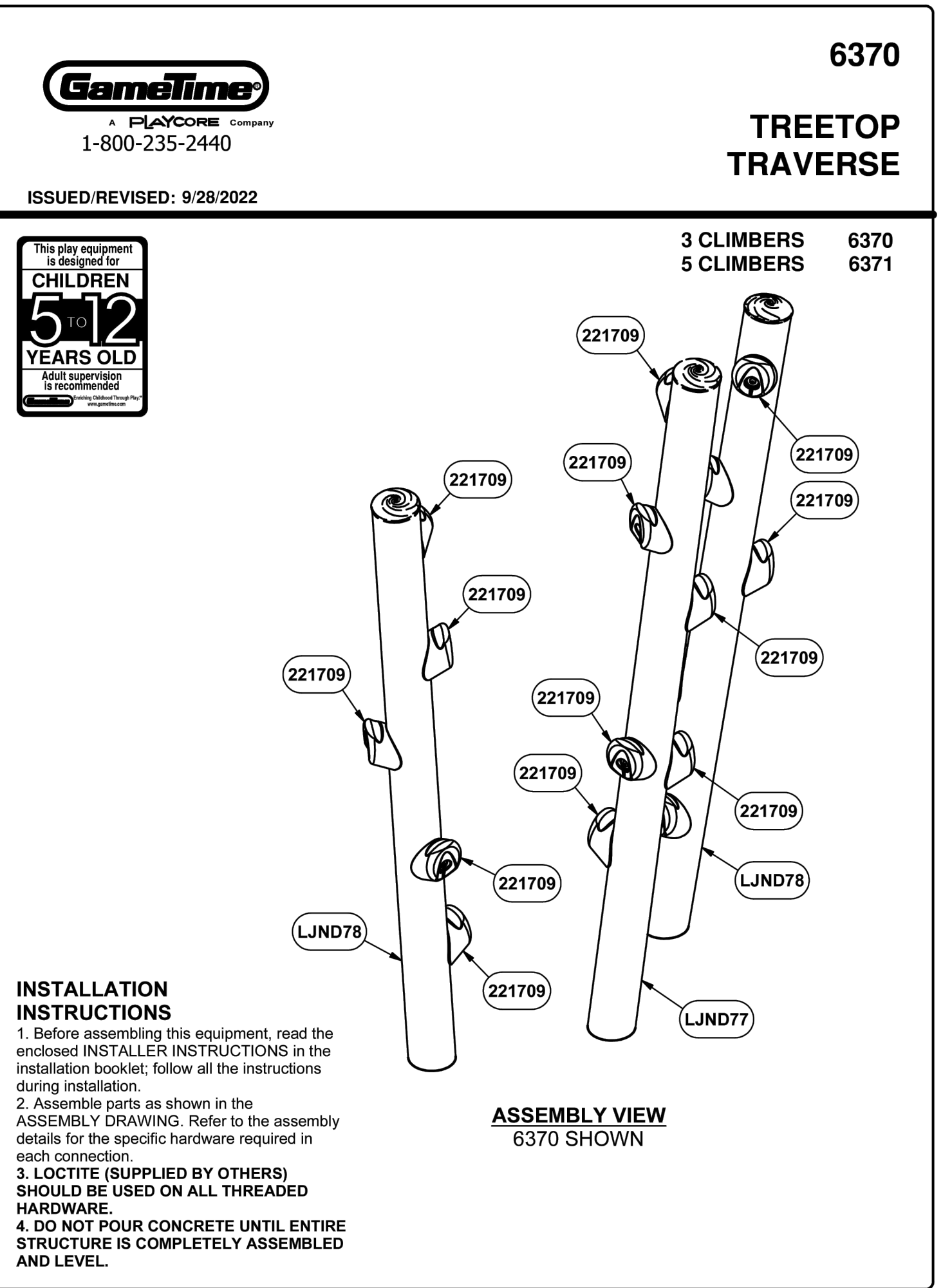
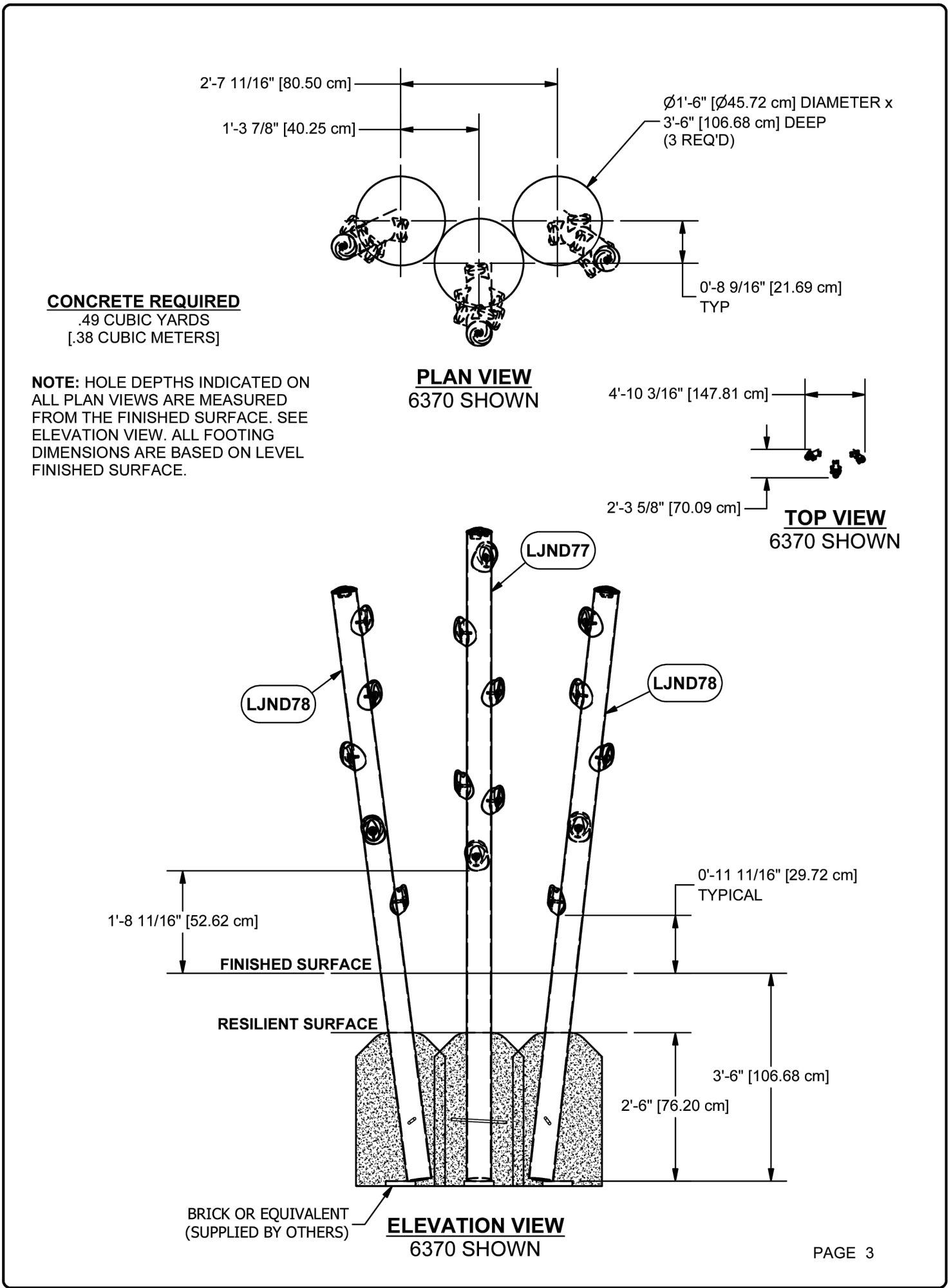
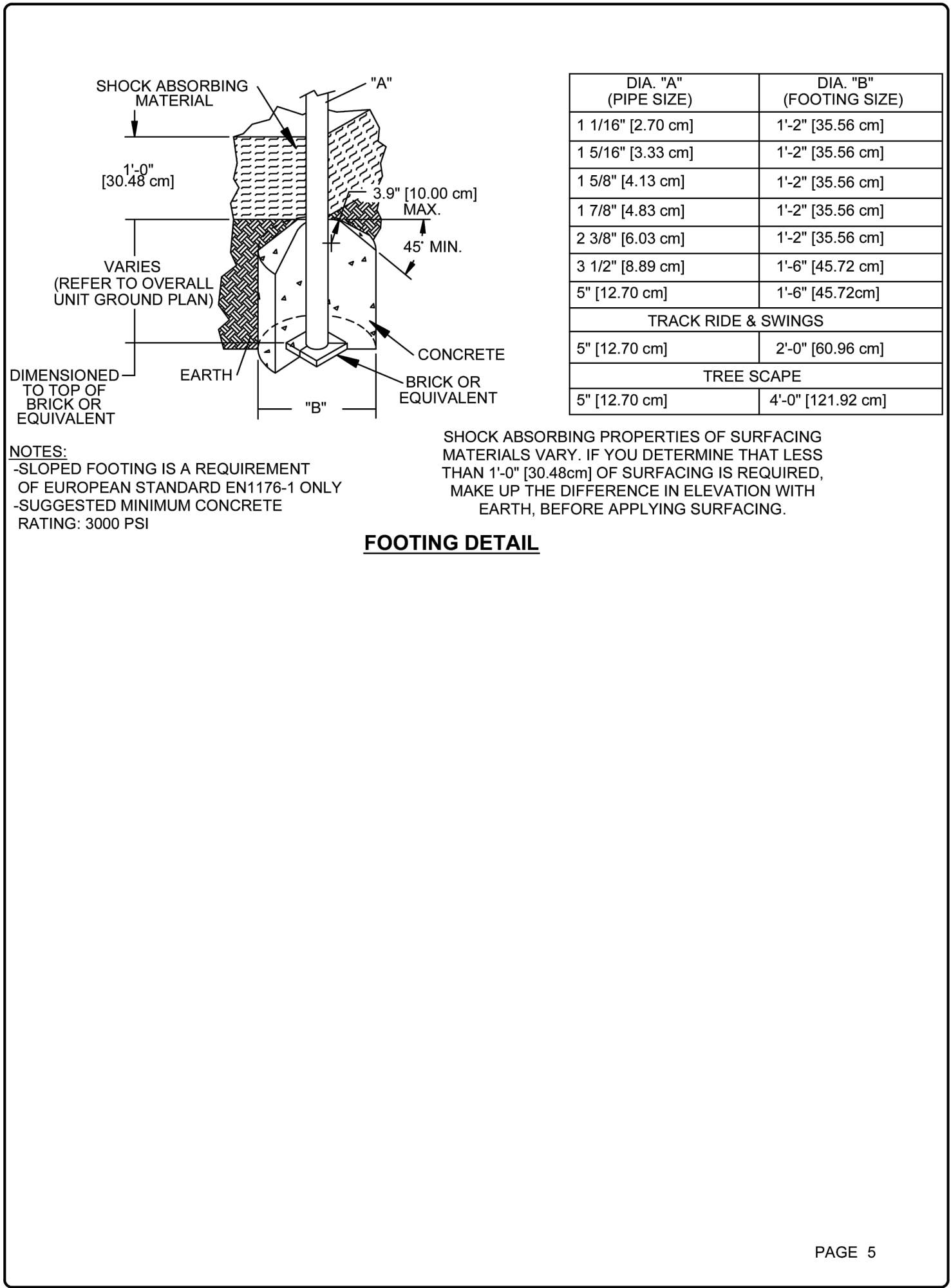
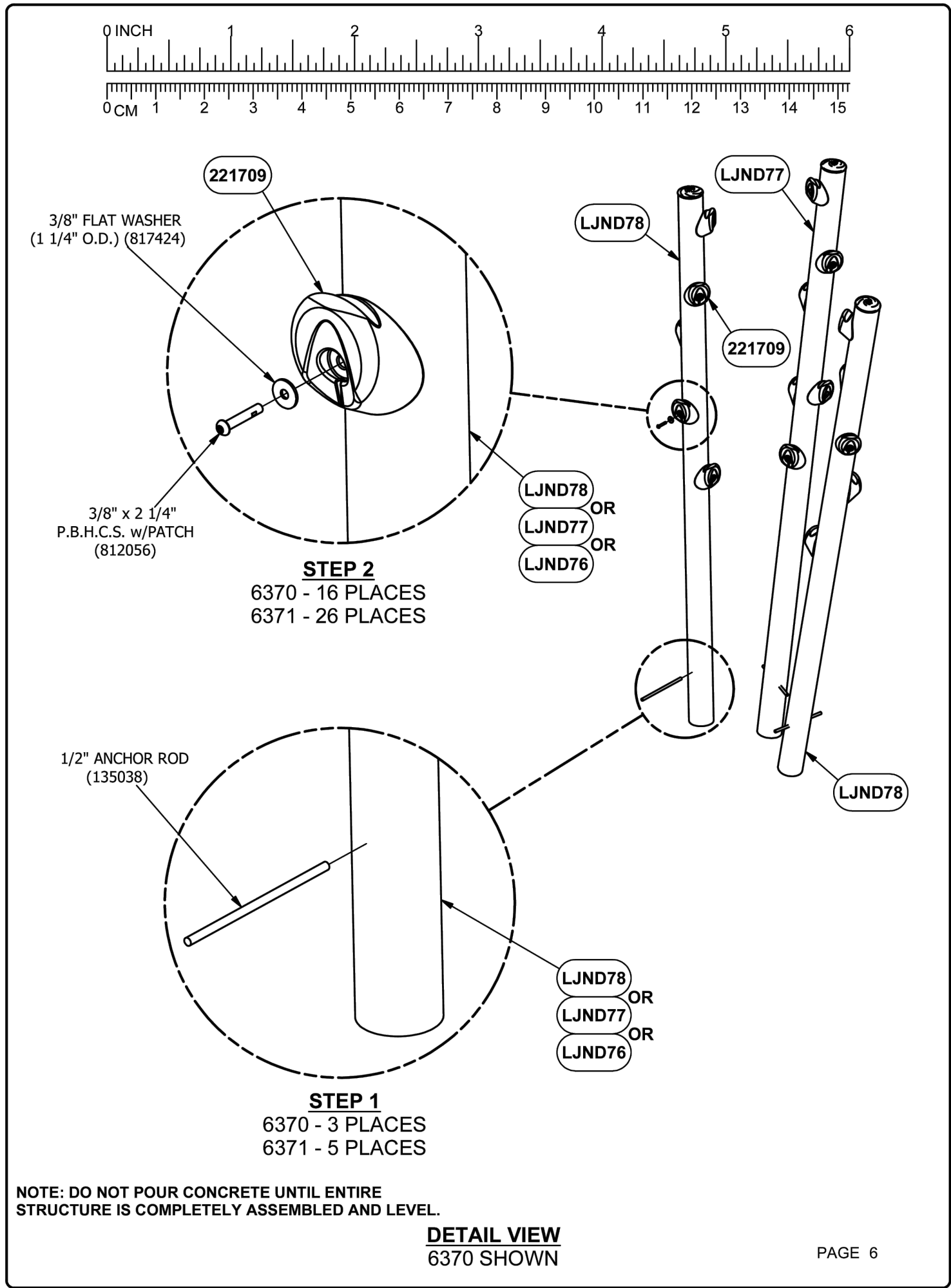
SCALE AS NOTED
L7.4
COPYRIGHTED 2021 HKIT ARCHITECTS



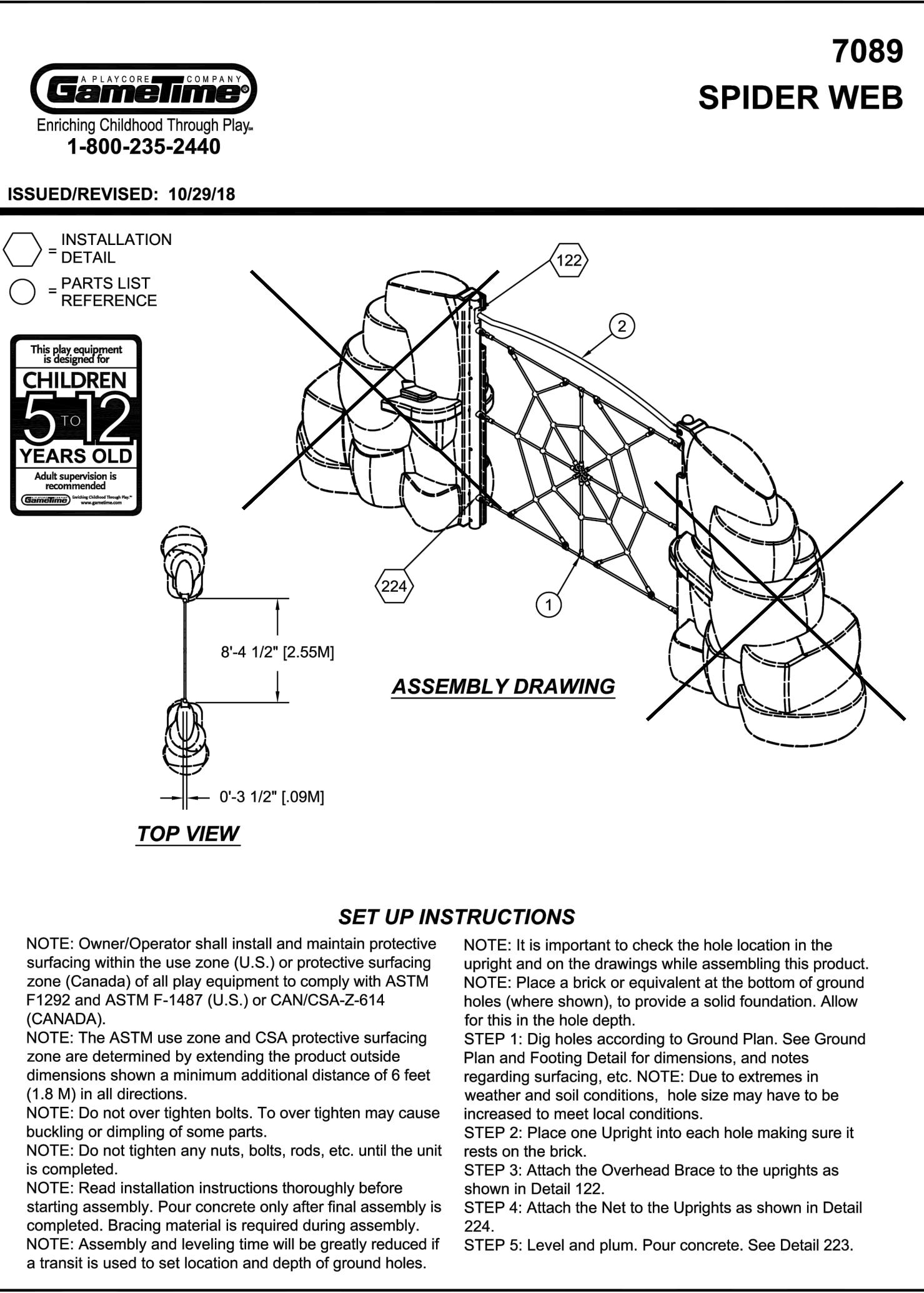
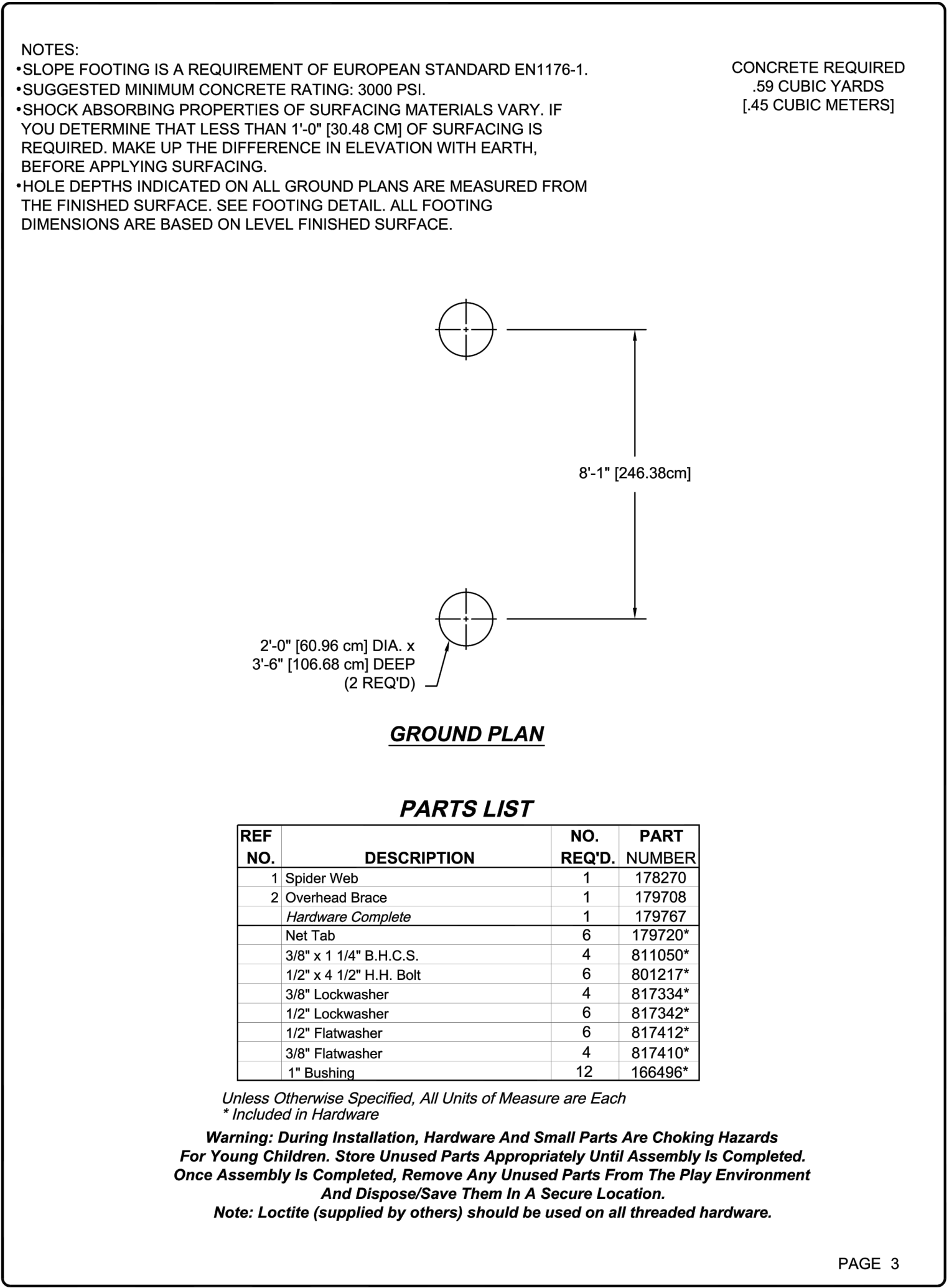
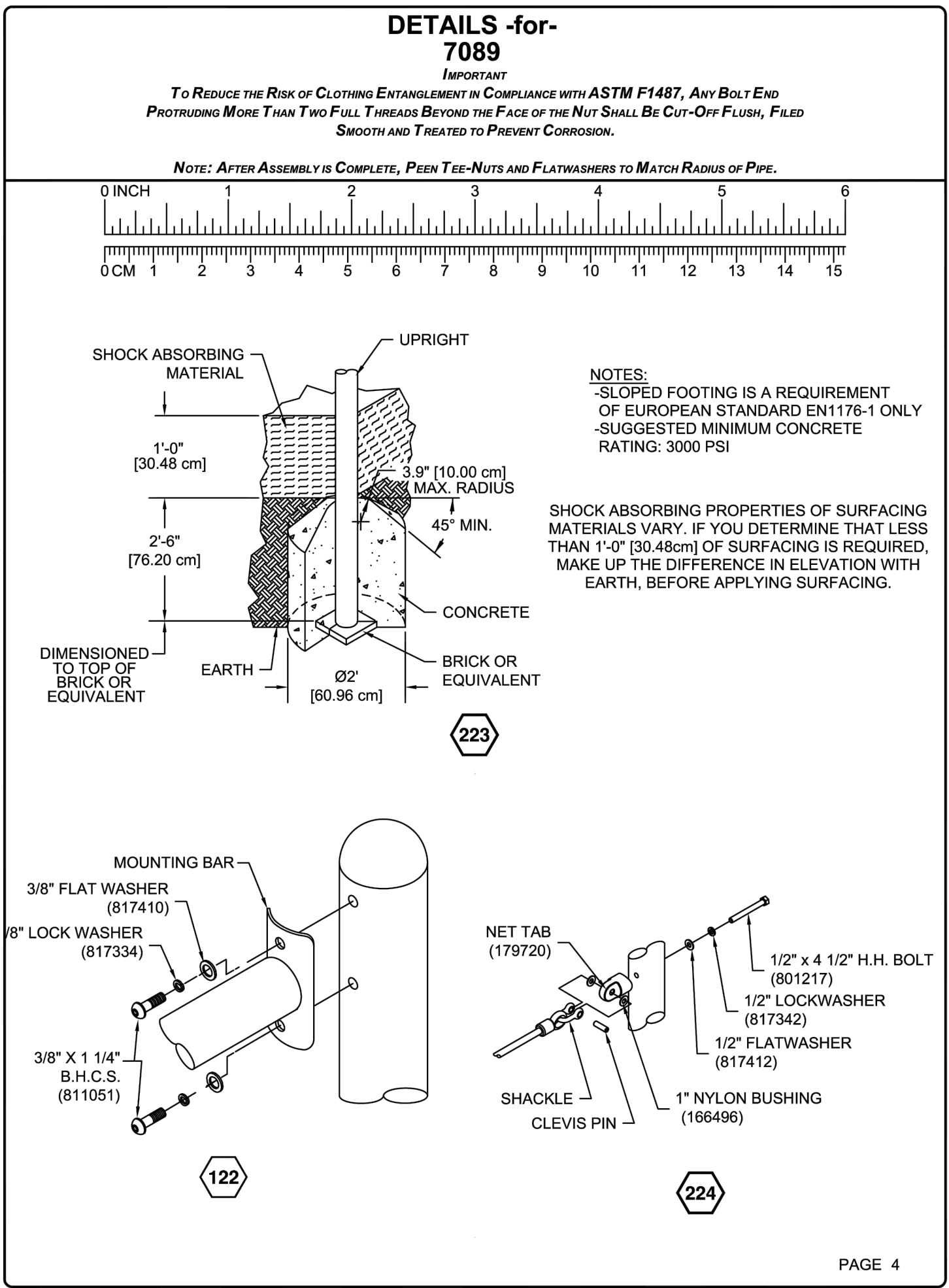
1 SOLO SPINNER
SCALE: N.T.S.



2 VERTICAL WIGGLE CLIMBER
SCALE: N.T.S.



1 TREETOP TRAVERSE
SCALE: N.T.S.



2 SPIDER WEB
SCALE: N.T.S.

HKIT ARCHITECTS
538 NINTH STREET SUITE 240 • OAKLAND, CA 94607
T 510 625 9800 • F 510 625 9801 • WWW.HKIT.COM

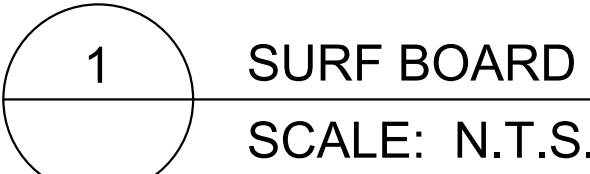
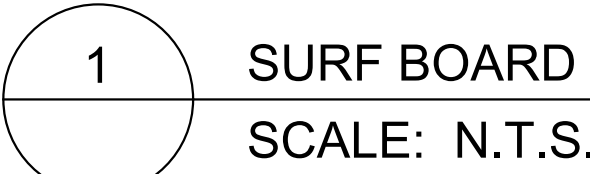
Jane Sedonaen, Landscape Architect
Integrated Design Studio
227 Flamingo Road
Mill Valley, CA 94941
Ph. 415-351-9500
www.integrateddesignstudio.com

COLEMAN
ELEMENTARY
KINDERGARTEN
PLAY YARD AND
PLAY GROUND
MODERNIZATION
SAN RAFAEL, CA

JOB NO. 23007
DRAWN SG/AS
CHECKED
JOB CAPTAIN
DATE 100% DSA SUBMITTAL 10/01/24

DRAWING TITLE
**CONSTRUCTION
DETAILS (7)**

SCALE AS NOTED
L7.6
COPYRIGHTED 2021 HKIT ARCHITECTS



Model Number: PT20012



Wandering Melody

Wandering Melody is an exciting PrimeTime play system designed for children ages 5-12. This unit features our musical instruments to encourage sensory play. The structure also incorporates two fast slides and an overhead climber for additional play value. The River Rock Climber adds a charming theming element, making Wandering Melody an irresistible playground destination for kids.

NOTE: REFERENCE L7.8, L7.9, and L7.10 FOR PLAY STRUCTURE ELEMENTS



COLEMAN
ELEMENTARY
KINDERGARTEN
PLAY YARD AND
PLAY GROUND
MODERNIZATION
SAN RAFAEL, CA

JOB NO. 23007
DRAWN SG/AS
CHECKED
JOB CAPTAIN
DATE
100% DSA SUBMITTAL 10/01/24

DRAWING TITLE

CONSTRUCTION DETAILS (8)

SCALE AS NOTED

L7.7

PRIME TIME

TRANSFER PLATFORM TRIANGLE

18337

GameTime
A PLAYCORE Company

1-800-235-2440

ISSUED/REVISED: 10/27/2019

○ = INSTALLATION
DETAIL
○ = PARTS LIST
REFERENCE

INSTALLATION INSTRUCTIONS

1. Before assembling this equipment, read the enclosed **INSTALLER INSTRUCTIONS** in the installation booklet, follow all the instructions during installation.
2. Assemble parts as shown in the **ASSEMBLY DRAWING**. Refer to the assembly details for the specific hardware required in each connection.
3. Locate (supplied by others) should be used on all threaded hardware.

004 001 5 1 275 287 3 005 582 4 583 2

KICKPLATE WILL BE LOCATED BEHIND DECK FLANGE


RIGHT ORIENTATION SHOWN

ASSEMBLY DRAWING

3'-5 7/16" [105.23 cm]

4'-6 5/16" [137.90 cm]

TOP VIEW



PRIME  **TIME**

GameTime
 ENRICHING CHILDHOOD THROUGH PLAY

1-800-235-2440

ISSUED/REVISED: 05/12/05

18200
DECKS

 = INSTALLATION
 DETAIL
 = PARTS LIST
 REFERENCE

NOTE: 18200 SQUARE
18201 TRIANGULAR
18202 RECTANGULAR
18203 LARGE TRIANGULAR
18250 LARGE SQUARE

ASSEMBLY DRAWING

INSTALLATION INSTRUCTIONS

- 1.) Before assembling this equipment, read the enclosed **INSTALLER INSTRUCTIONS** in the installation booklet, follow all the instructions during installation.
- 2.) Using a 1/2" (1.27 cm) drill bit, remove the vinyl coating from the four corner mounting holes. When decks are to be installed side by side at the same level, remove the coating from the (2) holes in the mating edges; for a rectangular deck, use the (2) holes nearest the middle.
- 3.) Assemble parts as shown in the **ASSEMBLY DRAWING**. Refer to the assembly details for the specific hardware required in each connection.
- 4.) Loctite (supplied by others) should be used on any non-patch hardware.

PRIME

GAMETIME
AN OUTDOOR RECREATION COMPANY

"S" REV. HORIZONTAL LOOP LADDER

Enriching Childhood Through Play.
1-800-235-2440
ISSUED/REVISED: 01/20/17

NOTE: 12224 - 1'-6"/2'-0"
12225 - 2'-6"/3'-0"
"S" HORIZONTAL ATTACHMENT

COMPONENT SHOWN UTILIZES ALUMINUM UPRIGHTS.
FOR GALVANIZED, ADD "C" PREFIX TO FINAL NUMBER.

DISTANCE FROM TOP RUNGS TO FINISHED SURFACE MUST NOT EXCEED 3'-0" [91.44cm]

DISTANCE FROM PLATFORM SURFACE TO FINISHED SURFACE MUST NOT EXCEED 3'-0" [91.44cm]

ASSEMBLY DRAWING

Deck Height	Dim "A"
1'-6" & 2'-6"	0'-6" [15.24cm]
2'-0" & 3'-0"	1'-0" [30.48cm]

INSTALLATION INSTRUCTIONS

- Before assembling this equipment, read the enclosed INSTALLATION INSTRUCTIONS in the installation booklet; follow all the instructions during installation.
- Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.
- Locite (supplied by others) should be used on all threaded hardware.

TOP VIEW

PRIME TIME

GameTime



Enriching Childhood Through Play.

1-800-235-2440

ISSUED/REVISED: 09/22/04

12215

CRUNCH BAR

-  INSTALLATION
DETAIL
-  PARTS LIST
REFERENCE

(097)

NOTE: 3" THRU 6"

INSTALLATION INSTRUCTIONS

1. Before assembling this equipment, read the enclosed INSTALLER INSTRUCTIONS in the installation booklet; follow all the instructions during installation.
2. Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.
3. Locite (supplied by others) should be used on all threaded hardware.

TOP VIEW

PARTS LIST

REF NO.	DESCRIPTION	No. REQ'D	PART NUMBER
1	Crunch Bar Assembly	1	159833
	Hardware Complete	1	151319
	3/8" X 1 1/4" B.H.C.S.	2	811051*
	3/8" Lockwasher	2	817334*

*Unless Otherwise Specified, All Units of Measure are Each
Included in Hardware*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly is Completed. Once Assembly is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

primetime
GameTime
 A PLAYCORE COMPANY
 1-800-235-2440
 ISSUED/REVISED: 2/6/2024

19752

**TRAVERSE
CLIMBER**

This play equipment is designed for
CHILDREN
5 to 12
YEARS OLD
 Adult supervision
 is recommended

Diagram illustrating the assembly view of the Traverse Climber. The structure consists of a vertical support post (213117) and a horizontal bar (213110). A climbing rope (212999) is attached to the horizontal bar and passes through a series of pulleys (160410) and carabiners (213110) to form a climbing loop. The diagram shows the rope being secured to the horizontal bar using a carabiner (212999) and a pulley (160410).

ASSEMBLY VIEW

**INSTALLATION
INSTRUCTIONS**



1. Before assembling this equipment, read the enclosed INSTALLER INSTRUCTIONS in the installation booklet; follow all the instructions during installation.
2. Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.
3. **LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.**
4. **DO NOT POUR CONCRETE UNTIL ENTIRE STRUCTURE IS COMPLETELY ASSEMBLED AND LEVEL.**

primetime
GameTime
 A PLAYCORE company
 1-800-235-2440
 ISSUED/REVISED: 2/15/2018

19756

**UMBRA
ROOFS**

TRIANGLE	19756
SQUARE	19757
HEX	19758

 = INSTALLATION
DETAIL
 = PARTS LIST
REFERENCE

The assembly drawing illustrates the construction of Umbra Roofs. It features several curved roof panels, some of which are interconnected. Callouts include:

- 632**: Points to multiple roof panels.
- 3**: Points to a central connecting piece.
- 710**: Points to a small circular component labeled "UNDERNEATH".
- 1**: Points to a small rectangular piece at the bottom left.
- 3**: Points to another connecting piece at the bottom right.
- 632**: Points to a panel at the bottom left.

 Dashed vertical lines extend from the bottom of several panels, indicating where they connect to the ground or another structure.

ASSEMBLY DRAWING

**INSTALLATION
INSTRUCTIONS**

- Before assembling this equipment, read the enclosed **INSTALLER INSTRUCTIONS** in the installation booklet, follow all the instructions during installation.
- Assemble parts as shown in the **ASSEMBLY DRAWING**. Refer to the assembly details for the specific hardware required in each connection.

primetime
GameTime
A PLAYCORE Company
1-800-235-2440
ISSUED/REVISED: 8/27/2017

19762
**UMBRA
PLUG**

○ INSTALLATION
DETAIL
○ PARTS LIST
REFERENCE

SEE 19756
FOR INSTALLTION

**INSTALLATION
INSTRUCTIONS**

1. Before assembling this equipment,
read the enclosed **INSTALLER
INSTRUCTIONS** in the installation
booklet. Follow all the instructions
during installation.

2. Assemble parts as shown in the
ASSEMBLY DRAWING. Refer to the
assembly details for the specific
hardware required in each connection.

ASSEMBLY DRAWING

0'-3 15/16" [9.94 cm]
0'-4" [10.21 cm]

TOP VIEW

primetime

Gameline™
A PLAYCORE COMPANY

1-800-235-2440
ISSUED/REVISED: 1/10/2024

This play equipment is designed for
CHILDREN
5-12 YEARS OLD
Adult supervision is recommended.

Assembly drawing showing the installation of the Ripple Pass Link structure. The drawing includes callouts for various parts and hardware:

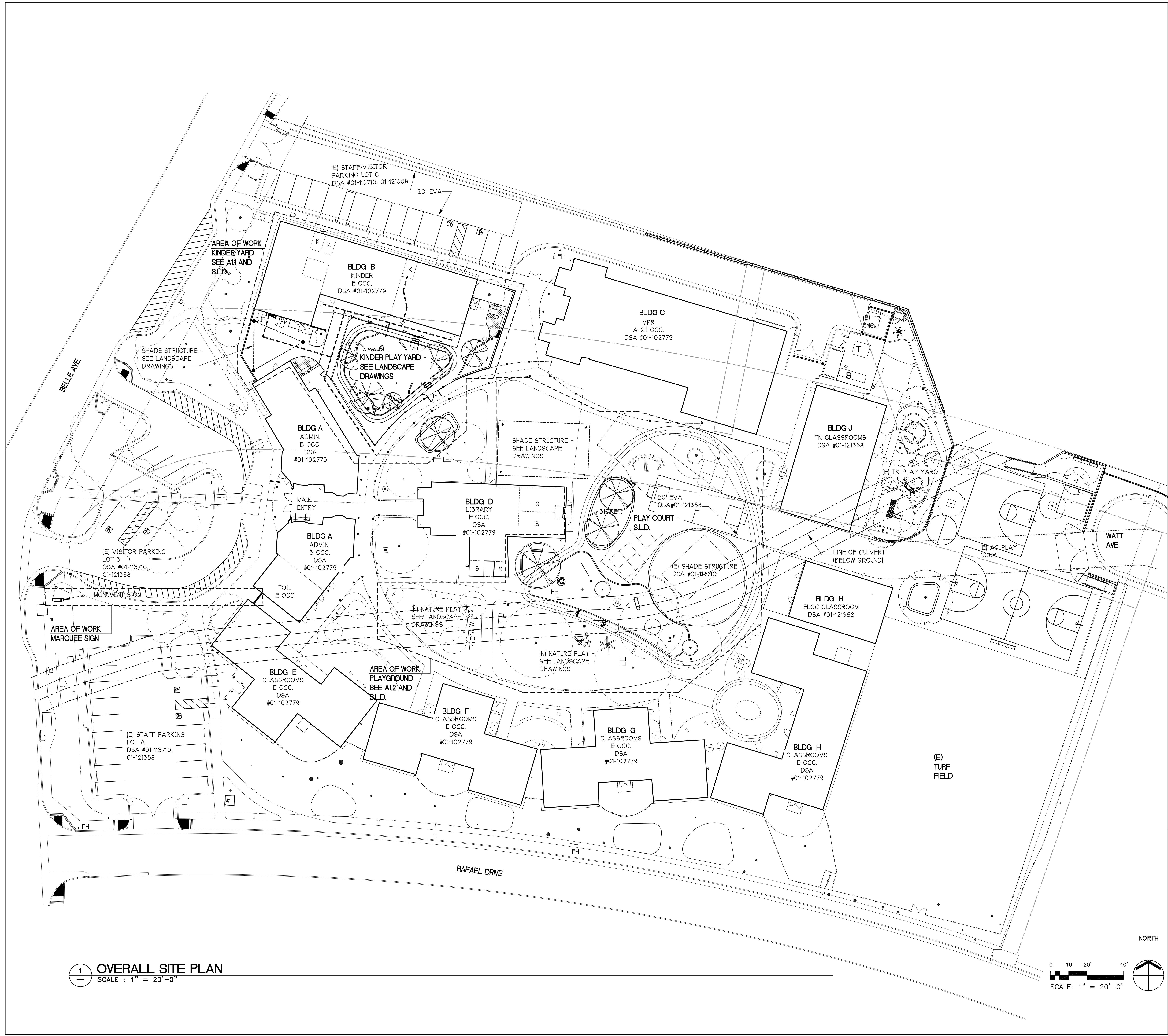
- 202623
- 217343
- 217966
- 222705
- 217969
- 218346
- 218345
- 218356
- 218346
- 202623
- 217343
- 202623

INSTALLATION INSTRUCTIONS

- Before assembling this equipment, read the enclosed INSTALLER INSTRUCTIONS in the installation booklet; follow all the instructions during installation.
- Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.
- LOCTITE® (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.
- DO NOT POUR CONCRETE UNTIL ENTIRE STRUCTURE IS COMPLETELY ASSEMBLED AND LEVEL.

ASSEMBLY VIEW

NOTE: REFERENCE L7.7, L7.8 FOR THE REST OF PLAY STRUCTURE ELEMENTS



GENERAL NOTES
A. SEE CIVIL, LANDSCAPE, AND ELECTRICAL DRAWINGS FOR FULL EXTENT OF WORK, INCLUDING PLAY STRUCTURES AND SITE FURNISHINGS, PLANTING AREAS, AND PAVING.

HKITARCHITECTS
538 NINTH STREET SUITE 240 • OAKLAND, CA 94607
T 510 625 9800 • F 510 625 9801 • WWW.HKIT.COM

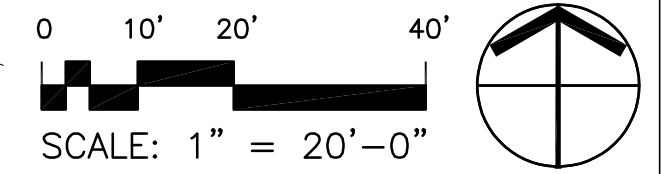
**COLEMAN
ELEMENTARY
KINDERGARTEN PLAY
YARD AND PLAY
GROUND
MODERNIZATION**
SAN RAFAEL, CA

JOB NO. 23007 PH 2
DRAWN AF
CHECKED
JOB CAPTAIN
DATE
DSA SUBMITTAL 10/01/24

LEGEND

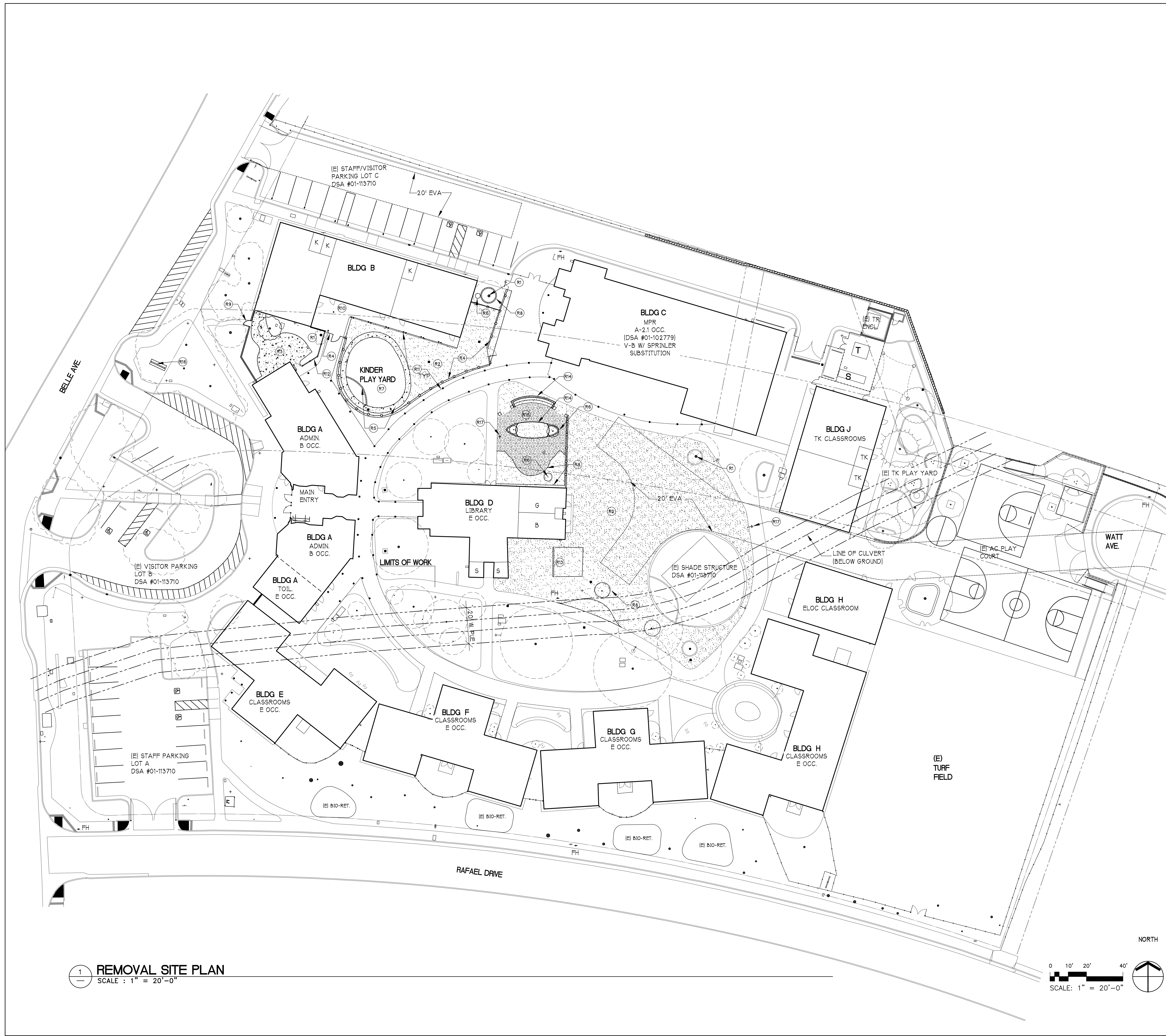
- (E) PATH OF TRAVEL UNDER DSA #01-121358
- PATH OF TRAVEL UNDER THIS APPLICATION
- K (E) ACCESSIBLE KINDER TOILET DSA #01-102779
- G B (E) ACCESSIBLE GIRLS AND BOYS STUDENT TOILETS DSA #01-102779
- S (E) ACCESSIBLE STAFF TOILET DSA #01-121358

NORTH



1 OVERALL SITE PLAN
SCALE : 1" = 20'-0"

DRAWING TITLE
**OVERALL
SITE PLAN**
SCALE AS NOTED
A1.0
COPYRIGHT © 2021 HKIT ARCHITECTS



GENERAL NOTES

A. PROVIDE ANY AND ALL REMOVAL WORK NECESSARY TO ALLOW FOR INSTALLATION AND/OR CONSTRUCTION OF WORK TO BE PROVIDED

B. CONTRACTOR TO VERIFY LOCATION OF UNDERGROUND UTILITIES PRIOR TO STARTING CONSTRUCTION. UTILITY LOCATIONS SHOWN ARE ESTIMATED AND NEITHER VERIFIED NOR COMPLETE. CONTRACTOR TO ENGAGE THE SERVICES OF AN UNDERGROUND LOCATOR TO PERFORM A COMPLETE SURVEY OF AFFECTED AREAS.

C. CONTRACTOR TO CONFIRM FIELD CONDITIONS AND POSSIBLE OBSTRUCTIONS BEFORE SETTING LOCATIONS OF FENCES AND BUILDINGS. LAYOUT LOCATIONS AND SUBMIT FOR REVIEW BY ARCHITECT AND OWNER PRIOR TO COMMENCING CONSTRUCTION.

D. CONTRACTOR TO REPAIR ANY AREA OF DAMAGE OR DEMOLITION THAT EXPOSES UNFINISHED STRUCTURE TO MATCH ADJACENT FINISHES.

REMOVAL NOTES

(R1) (E) LANDSCAPE TO REMAIN UNO. PROTECT DURING CONSTRUCTION

(R2) REMOVE (E) AC PAVING

(R3) REMOVE (E) CONC. PAVING

(R4) REMOVE (E) FENCE AND GATES

(R5) REMOVE (E) CURB AND SANDBOX

(R6) REMOVE (E) TREE

(R7) REMOVE (E) PLAY STRUCTURE AND RUBBER SURFACE

(R8) REMOVE (E) CURB

(R9) REMOVE (E) GATE AND INFILL WALL

(R10) (E) CONC. WALK AT KINDER BUILDING TO REMAIN, PROTECT DURING CONSTRUCTION

(R11) (E) COVERED WALK TO REMAIN, PROTECT DURING CONSTRUCTION

(R12) REMOVE PORTION OF (E) WALL AT COURTYARD. PROTECT PORTION OF WALL ADJACENT TO KINDER BUILDING

(R13) REMOVE (E) BALL WALL

(R14) REMOVE (E) RAISED CONC. STAGE

(R15) REMOVE (E) CONC. PAVERS

(R16) REMOVE (E) MONUMENT SIGN

(R17) REMOVE AND RETAIN (E) LIGHT POLE FOR REINSTALLATION

**COLEMAN
ELEMENTARY
KINDERGARTEN PLAY
YARD AND PLAY
GROUND
MODERNIZATION**

SAN RAFAEL, CA

JOB NO. 23007 PH 2
DRAWN AF
CHECKED
JOB CAPTAIN
DATE DSA SUBMITTAL 10/01/24

DRAWING TITLE
**REMOVAL
SITE PLAN**

SCALE AS NOTED

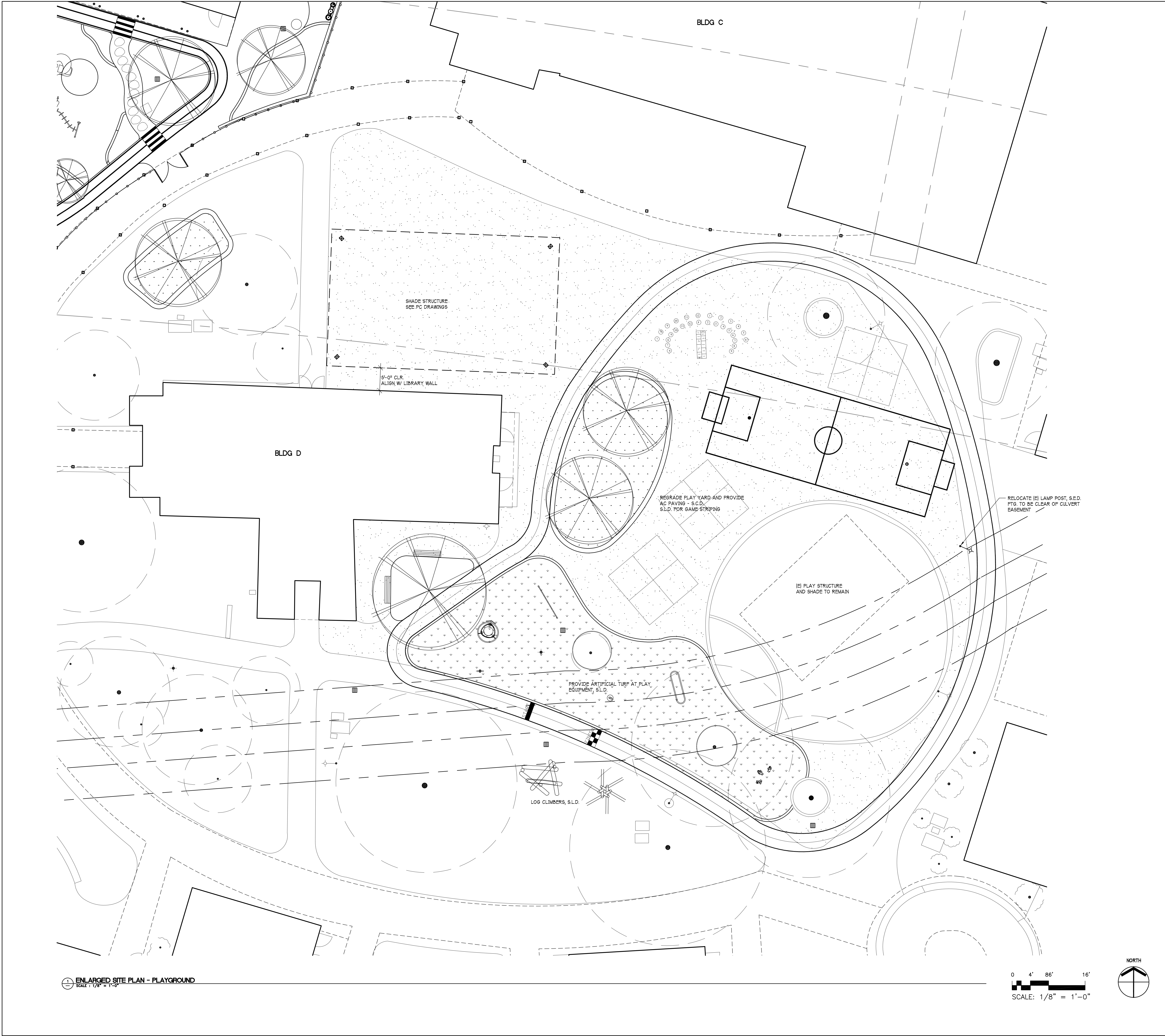
A1.0R
COPYRIGHT © 2021 HKIT ARCHITECTS



JOB NO. 23007 PH 2
 DRAWN AF
 CHECKED
 JOB CAPTAIN
 DATE
 DSA SUBMITTAL 10/01/24

SCALE AS NOTED

A1.1

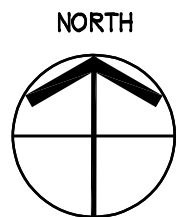


- GENERAL NOTES**
- PROVIDE ANY AND ALL REMOVAL WORK NECESSARY TO ALLOW FOR INSTALLATION AND/OR CONSTRUCTION OF WORK TO BE PROVIDED.
 - CONTRACTOR TO VERIFY LOCATION OF UNDERGROUND UTILITIES PRIOR TO STARTING CONSTRUCTION. UTILITY LOCATIONS SHOWN ARE ESTIMATED AND NEITHER VERIFIED NOR COMPLETE. CONTRACTOR TO ENGAGE THE SERVICES OF AN UNDERGROUND LOCATOR TO PERFORM A COMPLETE SURVEY OF EFFECTED AREAS.
 - CONTRACTOR TO CONFIRM FIELD CONDITIONS AND POSSIBLE OBSTRUCTIONS BEFORE SETTING LOCATIONS OF POSTS. LAYOUT LOCATION OF SHADE STRUCTURE AND SUBMIT FOR REVIEW BY ARCHITECT AND OWNER PRIOR TO COMMENCING CONSTRUCTION.
 - SEE LANDSCAPE AND CIVIL DRAWINGS FOR COMPLETE SCOPE OF WORK.

LEGEND	
	(E) PROPERTY LINE
	(E) CHAIN LINK FENCE TO REMAIN
	48" FENCE - S.L.D. & S.C.D.
	APPROXIMATE AREA OF AC PAVING TO BE REPLACED - S.L.D. & S.C.D.
	APPROXIMATE AREA OF CONCRETE PAVING - S.L.D. & S.C.D.
	AREA OF LANDSCAPE - S.L.D. & S.C.D.
	AREA OF BIORETENTION - S.L.D. & S.C.D.
	PERMEABLE GRANITE - S.L.D. & S.C.D.
	ARTIFICIAL TURF - S.L.D. & S.C.D.
	TREES - S.L.D.

1 ENLARGED SITE PLAN - PLAYGROUND
SCALE: 1/8" = 1'-0"

0 4' 86' 16'
SCALE: 1/8" = 1'-0"



**COLEMAN
ELEMENTARY
KINDERGARTEN PLAY
YARD AND PLAY
GROUND
MODERNIZATION**
SAN RAFAEL, CA

JOB NO. 23007 PH 2
DRAWN AF
CHECKED
JOB CAPTAIN
DATE DSA SUBMITTAL 10/01/24

DRAWING TITLE
**ENLARGED
SITE PLAN -
PLAYGROUND**

SCALE AS NOTED

A1.2
COPYRIGHT © 2021 HKIT ARCHITECTS



Cabinet: 4' x 6'
Mount: Pedestal

Cabinet Color: Bristol Blue
Face Color: Custom (232 141 60)
Line Colors: WhiteBristol BlueBlack

Outline Color: White
Fonts: Accidental Presidency, Futura(b), Arial
Logos: colemanestigersb, square



stewartsigns
1-800-237-3928 WWW.STEWARTSIGNS.COM

Due to the proprietary nature of our designs, we do not warrant or guarantee the accuracy of the information provided in this drawing. We are not responsible for any errors or omissions in this drawing. We are not responsible for any damages or losses resulting from the use of this drawing. We are not responsible for any claims or lawsuits filed against us or our employees, agents, or subcontractors. We are not responsible for any claims or lawsuits filed against us or our employees, agents, or subcontractors. We are not responsible for any claims or lawsuits filed against us or our employees, agents, or subcontractors.

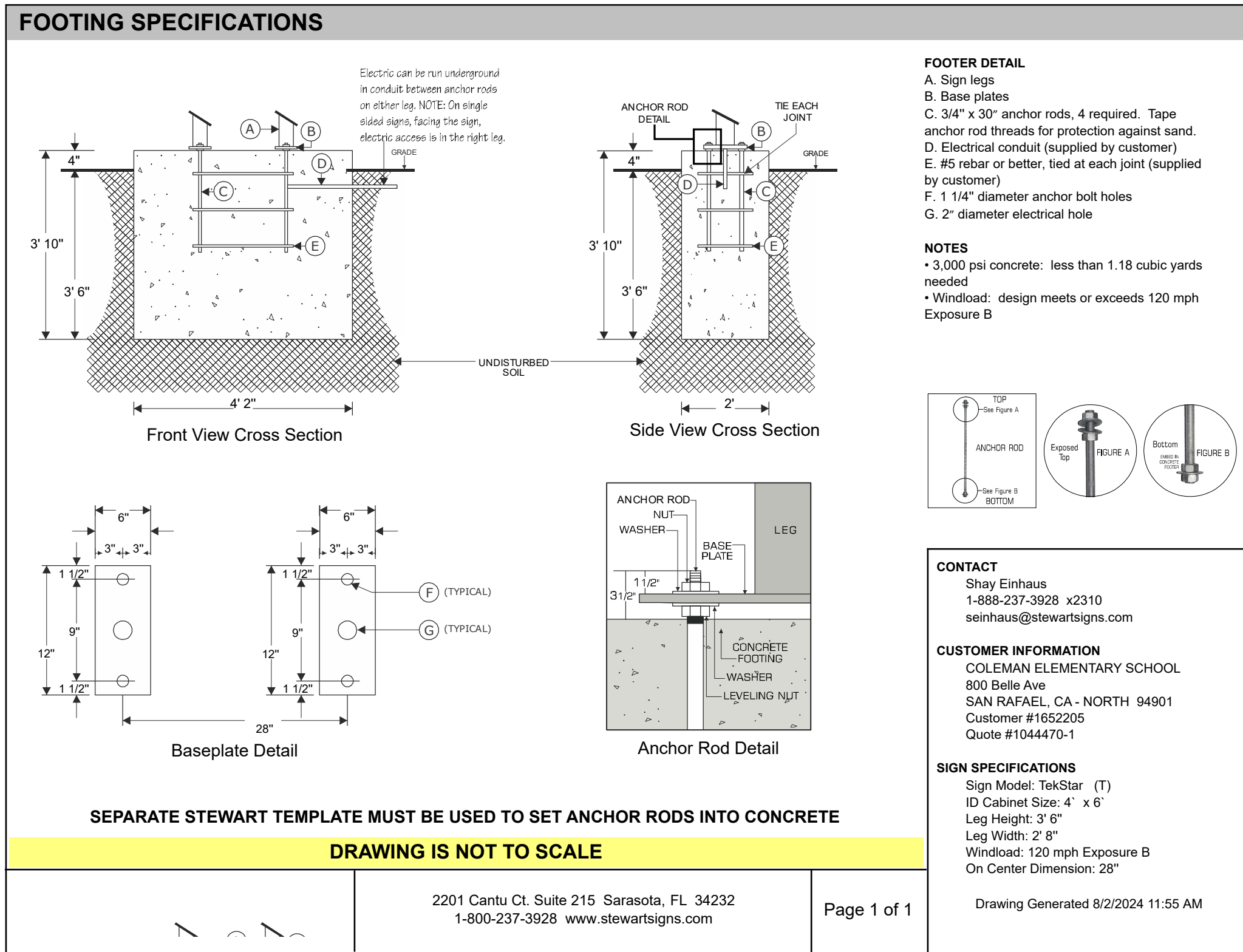
ORIGINAL DESIGN DO NOT DUPLICATE

APPROVED AS SHOWN: X DATE: 1, _____

APPROVED WITH LISTED CHANGES: X DATE: 2, _____

APPROVED WITH LISTED CHANGES: X DATE: 3, _____

Sketch #305756 Customer #1652205
7/25/2024 Shay Einhaus -PROPOSAL-



NOT FOR DSA REVIEW

GENERAL ELECTRICAL NOTES

34. FOR OUTDOOR 15 AND 20-AMPERE, 125 AND 250-VOLT RECEPTACLES LOCATED IN "WET" LOCATIONS SHALL HAVE "IN-USE" TYPE WEATHERPROOF COVER PLATES PROVIDED AND INSTALLED; RECEPTACLES LOCATED IN "DAMP" LOCATIONS SHALL HAVE "IN-USE" TYPE WEATHERPROOF COVER PLATES IN LOCATIONS DEEMED TO BE "IN-USE" WITH CORD AND PLUG ATTACHED.
35. TWO OR THREE DIFFERENT PHASES SUPPLIED BY A 3-PHASE PANEL MAY SHARE A SINGLE NEUTRAL ONLY IF CIRCUIT POSITIONS ARE ADJACENT IN THE PANEL. PROVIDE COMMON HANDLE-TIE ON BREAKERS FOR MULTI-WIRE BRANCH CIRCUITS, WITH COMMON NEUTRAL, PER NEC REQUIREMENTS.

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
C	CONDUIT
CATV	CABLE TV
CB	CIRCUIT BREAKER
CO	CONDUIT ONLY
CU	COPPER
DIST	DISTRIBUTION
DP	DISTRIBUTION PANEL
E.C.	ELECTRICAL CONTRACTOR
E.G.C.	EQUIPMENT GROUNDING CONDUCTOR
EM	EMERGENCY
EMS	ENERGY MANAGEMENT SYSTEM
EQPT	EQUIPMENT
EXT	EXTERIOR
(E)	EXISTING
(ER)	EXISTING EQUIPMENT TO BE RELOCATED
(EX)	EXISTING EQUIPMENT TO BE DEMOLISHED
FA	FIRE ALARM
FMC	FLEXIBLE METALLIC CONDUIT
FO	FIBER OPTIC
FTL	FEED THROUGH LUGS
G.E.C.	GROUNDING ELECTRODE CONDUCTOR
GFI	GROUND FAULT CIRCUIT INTERRUPTING TYPE RECEPTACLE
INV	INVERTER, EM LIGHTING OR PHOTOVOLTAIC
IDF	INTERMEDIATE DISTRIBUTION FRAME
L	LOCKABLE
LTG	LIGHTING
LV	LOW VOLTAGE
MC	METAL CLAD CABLING
MCB	MAIN CIRCUIT BREAKER
MDF	MAIN DISTRIBUTION FRAME
MFGR	MANUFACTURER
MLO	MAIN LUGS ONLY
MTD	MOUNTED
(N)	NEW
N.E.C.	NATIONAL ELECTRICAL CODE
NEU	NEUTRAL
NIEC	NOT IN ELECTRICAL CONTRACT
OAH	OVERALL HEIGHT
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
P	INDICATES FIXTURES ON PHOTOCELL CONTROL
PA	PUBLIC ADDRESS
PNL	PANEL
S.A.D.	SEE ARCHITECTURAL DRAWINGS
SIG	SIGNAL SYSTEM
SPD	SURGE PROTECTION DEVICE
STC	SIGNAL TERMINAL CABINET
SWBD	SWITCHBOARD
TELE	TELEPHONE
UFER	CONCRETE ENCASED CU G.E.C.
UON	UNLESS OTHERWISE NOTED
UG	UNDERGROUND
VAV	VAV BOX, SEE MECHANICAL DIVISION DRAWINGS FOR LOCATIONS. PROVIDE TOGGLE TYPE DISCONNECT SWITCH.
WP	WEATHER PROOF, NEMA 3R, EQUALS "WHILE IN USE" TYPE WHEN APPLIED TO EXTERIOR POWER RECEPTACLES
XFMR	TRANSFORMER

GENERAL ELECTRICAL NOTES

1. PRIOR TO BID THE CONTRACTOR SHALL VISIT THE SITE TO ADEQUATELY DETERMINE ALL EXISTING CONDITIONS. BY THE ACT OF SUBMITTING A BID, THE CONTRACTOR WILL BE DEEMED TO HAVE COMPLIED WITH THE FOREGOING, TO HAVE ACCEPTED SUCH CONDITIONS, AND TO HAVE MADE ALLOWANCES THEREFORE IN PREPARING THE BID.
2. PROVIDE PARITY SIZED GREEN GROUND WIRE IN ALL POWER CONDUITS, BRANCH CIRCUITS (LIGHTING & POWER) AND HOMERUNS. PROVIDE ADDITIONAL ISOLATED GROUND, GREEN WITH YELLOW STRIPE, TO ALL ISOLATED GROUND RECEPTACLES.
3. PROVIDE PULLROPE IN ALL EMPTY CONDUITS THROUGHOUT THE PROJECT.
4. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION & CONNECTIONS OR REQUIREMENTS OF ALL LUMINAIRE(S) AND ALL OUTLET, SWITCH, AND ELECTRICAL RELATED DEVICE MOUNTING HEIGHTS AND LOCATIONS. COORDINATE LOCATIONS OF ALL LUMINAIRE(S) AND JUNCTION BOXES WITH MECHANICAL DIVISION PRIOR TO ROUGH-IN. COORDINATE LOCATIONS OF ELECTRICAL DEVICES WITH FURNITURE PLANS PRIOR TO ROUGH-IN.
5. REFER TO MECHANICAL PLANS FOR EXACT LOCATION(S) OF ALL MECHANICAL EQUIPMENT, AND CONFIRM EXACT CONNECTION REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL DIVISION, PRIOR TO ROUGH-IN. VERIFY EXACT REQUIREMENTS FOR VOLTAGE, PHASE, HORSEPOWER, OR KVA RATINGS, OF ALL MECHANICAL DIVISION EQUIPMENT REQUIRING ELECTRICAL CONNECTION.
6. VERIFY EXACT CONNECTION REQUIREMENTS, OUTLET TYPE(S), MOUNTING HEIGHT(S) AND LOCATION(S) OF ALL OWNER-SUPPLIED EQUIPMENT, AND ALL EQUIPMENT PROVIDED UNDER OTHER SECTIONS OF THE SPECIFICATIONS, PRIOR TO ROUGH-IN. REFER TO ARCHITECTURAL DRAWINGS FOR EQUIPMENT LOCATIONS.
7. COORDINATE TRENCHING WITH OWNER AND OTHER TRADES BEFORE BEGINNING WORK.
8. ALL CONDUIT PENETRATIONS THROUGH FIRE-RATED WALLS AND FLOORS SHALL BE SEALED AND EQUIPPED WITH U.L. LISTED FIRE PENETRATION ASSEMBLIES TO MAINTAIN FIRE SEPARATION RATING.
9. DO NOT INSTALL ANY OUTLETS BACK TO BACK IN STUD WALLS OR DE-MOUNTABLE PARTITIONS.
10. THE CONTRACTOR SHALL VERIFY ALL CEILING TYPES BEFORE ORDERING OF LUMINAIRE(S). ALSO VERIFY THAT ALL FEATURES CALLED FOR IN LUMINAIRE DESCRIPTIONS ON THE LUMINAIRE SCHEDULE ARE INCLUDED WITH CATALOG NUMBERS LISTED ON THE LUMINAIRE SCHEDULE WHEN LUMINAIRE ORDERS ARE PLACED, AND ARE INCLUDED AS PART OF THE LIGHTING SUBMITTALS FOR THIS PROJECT. IF A DISCREPANCY EXISTS, CONTACT THE ARCHITECT AND ELECTRICAL ENGINEER FOR CLARIFICATION PRIOR TO BID.
11. CIRCUITRY AND CONDUIT ROUTING SHOWN ON THE PLANS IS DIAGRAMMATIC ONLY. THIS CONTRACTOR IS RESPONSIBLE FOR BECOMING COMPLETELY FAMILIAR WITH THE ARCHITECTURAL AND STRUCTURAL CONDITIONS AND LIMITATIONS IN THE BUILDING AND TO PROVIDE ALL LABOR, TOOLS AND MATERIALS REQUIRED TO PRODUCE A COMPLETELY CONCEALED INSTALLATION WHEREVER INDICATED ON THE PLANS.
12. MAINTAIN "AS-BUILT" RECORDS AT ALL TIMES, SHOWING EXACT LOCATION OF ALL UNDERGROUND AND/OR CONCEALED CONDUITS AND SERVICES INSTALLED UNDER THIS CONTRACT, INCLUDING CIRCUIT IDENTIFICATION WHERE APPLICABLE. PROVIDE OWNER WITH "AS-BUILT" DOCUMENTS AS INDICATED IN THE SPECIFICATIONS, AND/OR CALLED FOR IN THE SPECIFICATIONS.
13. DRAWINGS INDICATE THE LOCATION(S) OF DEVICES, LUMINAIRE(S) AND EQUIPMENT, AND THE CIRCUIT NUMBER AND PANEL DESIGNATED TO SUPPLY THEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETELY CONNECTING ALL ELECTRICAL DEVICES TO CIRCUITS INDICATED ON THE DRAWINGS.
14. UNLESS OTHERWISE NOTED, ALL WORK SHOWN ON DRAWINGS IS NEW AND TO BE PROVIDED AND INSTALLED COMPLETE UNDER THIS CONTRACT.
15. ALL EQUIPMENT GROUNDING SHALL CONFORM TO ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE, LATEST EDITION.
16. ALL EXTERIOR CONDUIT ABOVE GRADE, INCLUDING ALL ROOF MOUNTED CONDUIT, SHALL BE GALVANIZED RIGID STEEL. COAT ALL EXPOSED THREADS WITH GALVANIZING PAINT. PAINT ALL SURFACE MOUNTED RACEWAYS AND PULLBOXES TO MATCH SURROUNDING CONDITIONS, AS DIRECTED BY THE ARCHITECT.
17. ALL ELECTRICAL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE LATEST EDITION OF THE N.E.C., AS WELL AS STATE, AND LOCAL CODES AND REQUIREMENTS.
18. ALL CONDUIT SHALL BE CONCEALED, UNLESS OTHERWISE NOTED.
19. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE AVAILABLE SHORT CIRCUIT CURRENT AT THE MAIN SWITCHBOARD INCOMING TERMINALS WITH THE UTILITY COMPANY, AND TO VERIFY THAT ALL POWER AND SIGNAL SERVICE PROVISIONS, INCLUDING CONCRETE EQUIPMENT PADS, CONDUITS, PULLBOXES AND CLEARANCES, MEET THE UTILITY COMPANY'S REQUIREMENTS, PRIOR TO INSTALLATION.
20. EQUIPMENT OVERLOADS AND FUSES SHALL BE PROVIDED AND INSTALLED AS PER NAME PLATE ON THE EQUIPMENT ACTUALLY PROVIDED.
21. THE CONTRACTOR SHALL PAY FOR ALL REQUIRED PERMITS AND INSPECTION FEES.
22. THE CONTRACTOR SHALL VERIFY ALL CRITICAL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
23. ALL EXIT SIGNS SHALL COMPLY WITH THE RELEVANT PORTIONS OF SECTIONS 1008 AND 1013 OF THE CBC.
24. ALL MECHANICAL DIVISION EQUIPMENT LOW VOLTAGE CONTROL WIRING AND RACEWAY SHALL BE PROVIDED AND INSTALLED AS SPECIFIED IN MECHANICAL DIVISION U.O.N.
25. COORDINATE INSTALLATION OF ALL RECESSED LUMINAIRE(S) WITH MECHANICAL DIVISION PRIOR TO INSTALLATION OF HVAC DUCTS AND SPRINKLER HEADS. ENSURE AFTER INSTALLATION OF LUMINAIRE(S) THAT THERE IS NO CONTACT BETWEEN DUCTS AND LUMINAIRE(S) TO AVOID VIBRATION IN LUMINAIRE(S).
26. USE FLEXIBLE CONDUIT FOR ALL MOTOR, TRANSFORMER, RECESSED LUMINAIRE CONNECTIONS, AND CONNECTIONS BETWEEN TWO SEPARATE STRUCTURES AND FOR ALL FINAL CONNECTIONS TO "CRITICAL EQUIPMENT" AS DEFINED IN SPECIFICATIONS. MINIMUM 1/2" DIAMETER, LIQUID TIGHT TYPE USED OUTDOORS AND IN ALL WET LOCATIONS; PROVIDE WITH CODE-SIZE (MINIMUM #12) BARE GROUND WIRE IN ALL FLEXIBLE CONDUIT.
27. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR ALL BRANCH CIRCUITS FEEDING OUTLETS AS NOTED ON THE DRAWINGS.
28. FOR FLUSH MOUNTED PANELBOARDS THE CONTRACTOR SHALL STUB A MINIMUM OF FOUR (4) 3/4" CONDUITS FROM THE PANEL UP INTO THE ACCESSIBLE CEILING ABOVE FOR FUTURE CIRCUITS.
29. ALL CONDUIT CONNECTORS TO OUTLET OR JUNCTION BOXES SHALL HAVE INSULATED THROATS (MANUFACTURED AS AN INTEGRAL PART OF THE CONNECTOR). AFTER-MARKET INSERTABLE THROATS ARE NOT ACCEPTABLE.
30. ALL CIRCUITS IN ALL JUNCTION BOXES AND DEVICES SHALL BE CLEARLY IDENTIFIED BY MEANS OF "EZ" NUMBERING TAGS OR EQUIVALENT, TO IDENTIFY THE CIRCUIT NUMBER OR RELAY SUPPLYING THE CONDUCTOR. ALL JUNCTION BOXES SHALL BE LABELED PER SPECIFICATIONS.
31. ALL SURFACE MOUNTED POWER AND SIGNAL BOXES IN FINISHED AREAS SHALL BE "WIREMOLD" TYPE, WITH MATCHING RACEWAYS. SURFACE MOUNTED STEEL JUNCTION BOXES AND/OR EMT ARE NOT ACCEPTABLE.
32. ALL LOCATIONS OF BARE METAL SURFACE MOUNTED CONDUIT, BOXES, PANEL COVERS, AND RELATED FITTINGS OR ACCESSORIES INSTALLED IN FINISHED AREAS (BOTH INTERIOR AND EXTERIOR) SHALL BE FINISH PAINTED TO MATCH THE SURFACE TO WHICH THEY ARE MOUNTED TO (AFTER INSTALLATION). PAINTING SHALL INCLUDE DIFFERENT COLORS AS REQUIRED TO MATCH EXISTING STRIPING OR OTHER BUILDING FEATURES TO WHICH THE EQUIPMENT IS ATTACHED AND VISIBLE. VERIFY EXACT JUNCTION BOX LOCATION(S) AND ROUTING OF EXPOSED RACEWAYS WITH THE ARCHITECT PRIOR TO ROUGH-IN.
33. PROVIDE A BLANK COVER PLATE (COLOR TO MATCH ADJACENT DEVICES OR AS SPECIFICALLY CALLED FOR IN SPECIFICATIONS) FOR ALL JUNCTION BOXES (NEW AND EXISTING) ON THE PROJECT WHEN NO DEVICE IS INSTALLED.

ELECTRICAL SYMBOLS LIST

- FIRE ALARM SYSTEM MANUAL PULL STATION, UP 48" U.O.N.
- FIRE ALARM SYSTEM HORN/STROBE, UP 80" U.O.N. NUMBER ADJACENT INDICATES CANDELA VALUE FOR STROBE
- WEATHERPROOF FIRE ALARM SYTEM HORN/STROBE, UP 80" U.O.N. NUMBER ADJACENT INDICATES CANDELA VALUE FOR STROBE
- FIRE ALARM SYSTEM STROBE, UP 80" U.O.N. NUMBER INDICATES CANDELA VALUE FOR STROBE
- WEATHERPROOF FIRE ALARM SYSTEM HORN, UP 90" U.O.N.
- FIRE ALARM SYSTEM SPRINKLER FLOW SWITCH. PROVIDE MONITOR MODULE. SEE FIRE PROTECTION DRAWINGS
- FIRE ALARM SYSTEM SPRINKLER VALVE SUPERVISORY SWITCH. PROVIDE MONITOR MODULE. SEE FIRE PROTECTION DRAWINGS
- POST INDICATING VALVE. PROVIDE MONITOR MODULE. SEE CIVIL DRAWINGS
- SPRINKLER FLOW ALARM (PROVIDE BY SPRINKLER CONTRACTOR). CONNECT COMPLETE VIA WATER FLOW SWITCH AUX. CONTACTS. SEE FIRE PROTECTION DRAWINGS
- FIRE ALARM SYSTEM SMOKE DETECTOR
- FIRE ALARM SYSTEM HEAT DETECTOR
- FIRE ALARM SYSTEM MONITOR MODULE
- FIRE ALARM SYSTEM CONTROL MODULE
- FIRE ALARM SYSTEM RELAY MODULE
- PROJECT NUMBERED NOTE, OR SHEET NUMBERED, AS NOTED ON PLAN.
- COPPER GROUND ROD, 10' L x 3/4" ø, SEE SPECS
- CIRCUIT BREAKER, INDICATES 100 AMP, 3 POLE
- UTILITY METER
- CONDUCTOR LANDING LUGS
- CONDUIT TURN DOWN
- CONDUIT TURN UP
- CONTINUATION
- CONDUIT STUB
- ELECTRICAL FEEDER TAG, PER COPPER FEEDER SCHEDULE
- MECHANICAL EQUIPMENT DESIGNATION, REFER TO MECHANICAL PLANS.
- DETAIL OR SHEET REFERENCE CALLOUT. INDICATES DETAIL 1 SHEET E-0.1. WHEN ADJACENT EQUIPMENT, APPLIES TO EQUIPMENT IDENTIFIED ONLY.
- DETAIL OR SHEET REFERENCE CALLOUT. INDICATES DETAIL 1 SHEET E-0.1. WHEN ADJACENT EQUIPMENT, APPLIES TO TYPICAL EQUIPMENT SERIES.

BRANCH CIRCUIT NOMENCLATURE

- EXAMPLES:
- LA1-3 1-POLE BRANCH CIRCUIT TO CB
- LA1-1,3,5 1-POLE BRANCH CIRCUIT FOR MULTI CIRCUIT HOMERUNS TO SEPARATE CB'S.
- LA1-[1,3] 2-POLE BRANCH CIRCUIT TO COMMON CB
- LA1-[1,3,5] 3-POLE BRANCH CIRCUIT TO COMMON CB

ELECTRICAL SYMBOLS LIST

- MAIN SWITCHBOARD, DISTRIBUTION PANEL, OR MOTOR CONTROL CENTER
- SURFACE MOUNTED PANELBOARD OR EQUIPMENT AS NOTED ON DRAWINGS. 6" - 6" TO TOP
- FLUSH MOUNTED PANELBOARD OR EQUIPMENT AS NOTED ON DRAWINGS. 6" - 6" TO TOP
- PAD MOUNTED UTILITY TRANSFORMER, PER UTILITY CO. REQUIREMENTS.
- CONDUIT AND WIRE CONCEALED IN CEILING OR WALL
- CONDUIT AND WIRE UNDERGROUND, OR CONCEALED UNDER SLAB
- CONDUIT AND WIRE RUN EXPOSED, PAINTED TO MATCH ALL ADJACENT FINISHES WITHIN FINISHED SPACES
- HOMERUN TO PANELBOARD OR TERMINAL BOARD, AS NOTED ON PLANS
- CROSSMARKS INDICATE QUANTITY OF #12 CONDUCTORS PLUS PARITY SIZED GROUND CONDUCTOR. NO HASHMARKS INDICATES (2) #12 PLUS PARITY SIZED GROUND CONDUCTOR.
- GROUND WIRE
- MOTOR WITH FLEXIBLE CONDUIT CONNECTION AND DISCONNECT
- CONCRETE PULLBOX, SIZE AS REQUIRED OR SHOWN - CHRISTY OR EQUAL WITH LABELED LID PER USE
- WIRE SIZE 10 AWG FOR ALL CONDUCTORS, INCLUDING GROUND WIRE THROUGHOUT THE COMPLETE CIRCUIT
- FLUSH FLOOR MOUNTED JUNCTION BOX
- FLUSH CEILING MOUNTED JUNCTION BOX
- FLUSH WALL MOUNTED JUNCTION BOX, UP 18" U.O.N.
- 20A 3PG 125V DUPLEX RECEPTACLE, UP 18" U.O.N.
- 20A 3PG 125V DUPLEX RECEPTACLE, GROUND FAULT CIRCUIT INTERRUPTER TYPE, UP 18" U.O.N.
- 20A 3PG 125V DUPLEX RECEPTACLE, GROUND FAULT CIRCUIT INTERRUPTER TYPE, UP 18" U.O.N., IN WEATHER PROOF, FLUSH LOCKABLE ENCLOSURE. HUBBELL #460RAC (OR EQUAL).
- 20A 3PG 125V DUPLEX RECEPTACLE, ISOLATED GROUND TYPE, UP 18" U.O.N.
- 20A 3PG 125V DUPLEX RECEPTACLE, MOUNTED ABOVE COUNTER, U.O.N.
- 20A 3PG 125V DOUBLE DUPLEX RECEPTACLE, UP 18" U.O.N.
- 20A 3PG 125V DOUBLE DUPLEX RECEPTACLE, MOUNTED ABOVE COUNTER, U.O.N.
- 20A 3PG 125V SINGLE RECEPTACLE, UP 18" U.O.N.
- RECEPTACLE AS NOTED ON PLANS.
- HALF CONTROLLED AND IDENTIFIED DOUBLE DUPLEX RECEPTACLE WIRED THROUGH LOCAL PLUS-LOAD CONTROLLER FOR ONE HALF OF DUPLEX, UP 18" U.O.N.
- 20A 3PG 125V DUPLEX RECEPTACLE, FLUSH CEILING MOUNT.
- 20A 3PG 125V DUPLEX RECEPTACLE, FLUSH CEILING MOUNT.
- LINE VOLTAGE THERMOSTAT, PROVIDED AND INSTALLED BY ELECTRICAL, CONNECTED COMPLETE BY MECHANICAL
- SURFACE MOUNTED WIREMOLD RACEWAY WITH RECEPTACLES AS INDICATED ON PLANS
- SURFACE MOUNTED WIREMOLD RACEWAY RISER
- DATA OUTLET, WALL MOUNTED, UP 18" U.O.N. MINIMUM 2D PER RECEPTACLE. NUMBER INDICATES QUANTITY OF DATA OUTLET JACKS. WHERE NONE SHOWN, 2 SHALL BE PROVIDED.
- DATA OUTLET, WALL MOUNTED, MOUNTED ABOVE COUNTER. NUMBER INDICATES QUANTITY OF DATA OUTLET JACKS. WHERE NONE SHOWN, 2 SHALL BE PROVIDED.
- DATA OUTLET, FLUSH CEILING MOUNT.
- "AP" - INTENDED ACCESS POINT
- "P" - INTENDED PROJECTOR
- NUMBER INDICATES QUANTITY OF DATA OUTLET JACKS. WHERE NONE SHOWN, 2 SHALL BE PROVIDED.
- FLUSH WALL MOUNTED INDOOR PUBLIC ADDRESS SPEAKER, UP 96" U.O.N. - "WP" INDICATES WEATHERPROOF FOR IP BASED SYSTEMS. PROVIDE 1 DATA DROP AT EACH DEVICE SHOWN ON THE PLANS, U.O.N.
- FLUSH WALL MOUNTED SIGNAL SYSTEM CLOCK, UP +96" U.O.N.
- FOR IP BASED SYSTEMS, PROVIDE 2 DATA DROPS AT EACH DEVICE SHOWN ON THE PLANS, U.O.N.
- MOTOR DISCONNECT SWITCH, HORSEPOWER RATED, FUSED
- PLAN SPECIFIC DIMENSIONED SYMBOL, BASED ON INDUSTRY STANDARD FRAME SIZES
- DIAGRAMMATIC SYMBOL
- MOTOR DISCONNECT SWITCH, HORSEPOWER RATED, NON FUSED
- PLAN SPECIFIC DIMENSIONED SYMBOL, BASED ON INDUSTRY STANDARD FRAME SIZES
- DIAGRAMMATIC SYMBOL

ELECTRICAL SYMBOLS LIST

- ALL SWITCH AND CONTROL, MOUNTING HEIGHTS OF 48" SHALL BE TO TOP OF THE DEVICE BOX. ALL RECEPTACLES WITH MOUNTING HEIGHT OF UP TO 18" SHALL BE NO LOWER THAN 15" TO BOTTOM OF THE DEVICE BOX, TYPICAL, U.O.N.
- INDICATES LUMINAIRE TYPE. SEE LUMINAIRE SCHEDULE
- INDICATES EMERGENCY LUMINAIRE. SEE ABBREVIATIONS FOR TYPE OF EMERGENCY SOURCE
- WALL MOUNTED LUMINAIRE
- POLE ARM-MOUNTED AREA LUMINAIRE; ARROW INDICATES DIRECTION OF LIGHT DISTRIBUTION WHEN NOT PARALLEL TO ARM ORIENTATION
- POST-TOP PEDESTRIAN-SCALE WALKWAY OR AREA LUMINAIRE; ARROW INDICATES DIRECTION OF LIGHT DISTRIBUTION
- POST-TOP PEDESTRIAN-SCALE AREA LUMINAIRE; ARROW INDICATES DIRECTION OF LIGHT DISTRIBUTION
- BOLLARD LUMINAIRE; ARROW INDICATES DIRECTION OF LIGHT DISTRIBUTION
- FLUSH IN-GROUND LANDSCAPE OR BUILDING UPLIGHT, NON-ADJUSTABLE AIMING
- FLUSH IN-GROUND LANDSCAPE OR BUILDING UPLIGHT WITH ADJUSTABLE AIMING FEATURE; ARROW INDICATES AIMING DIRECTION
- STEM MOUNTED SIGN LIGHT
- WALL MOUNTED EXIT SIGN, ARROWS AS NOTED ON PLANS. SHADED AREA INDICATES NUMBER OF FACES
- CEILING MOUNTED EXIT SIGN, ARROWS AS NOTED ON PLANS. SHADED AREA INDICATES NUMBER OF FACES
- LOW LEVEL WALL MOUNTED EXIT SIGN
- WALL MOUNTED EMERGENCY BATTERY EGRESS LUMINAIRE WITH NUMBER OF ADJUSTABLE LAMP HEADS INDICATED
- CEILING MOUNTED DUAL TECHNOLOGY DIGITAL OCCUPANCY SENSOR
- WALL MOUNTED DUAL TECHNOLOGY DIGITAL OCCUPANCY SENSOR
- LOW VOLTAGE COLD TEMPERATURE PIR OCCUPANCY SENSOR
- CEILING MOUNTED LINE VOLTAGE DUAL TECHNOLOGY OCCUPANCY SENSOR

CALIFORNIA GREEN BUILDING STANDARDS COMPLIANCE

ALL EXTERIOR LUMINAIRES SPECIFIED IN THESE CONTRACT DOCUMENTS COMPLY WITH THE REQUIREMENTS OF THE CALIFORNIA ENERGY CODE AND THE CALIFORNIA GREEN BUILDING STANDARDS CODE, SECTION AS.106.8 LIGHT POLLUTION REDUCTION. EXTERIOR LUMINAIRES COMPLY WITH BACKLIGHT, UPLIGHT, AND GLARE (BUG) RATINGS AS DEFINED IN IESNA TM-15-11 AND BUG RATINGS DO NOT EXCEED THE MAXIMUM ALLOWABLE RATINGS FOR THIS PROJECT.

SHEET INDEX

E-0.1	ELEC SYMBOLS LIST, SHEET INDEX & GENERAL NOTES
E-1.1	SITE PLAN - ELECTRICAL
E-7.1	DETAILS

COLEMAN
ELEMENTARY
KINDERGARTEN
PLAY YARD AND
PLAY GROUND
MODERNIZATION

SAN RAFAEL, CA

JOB NO. 23007 PH 2
DRAWN JK
CHECKED PJC
JOB CAPTAIN JK
DATE

DSA SUBMITTAL 10/01/24

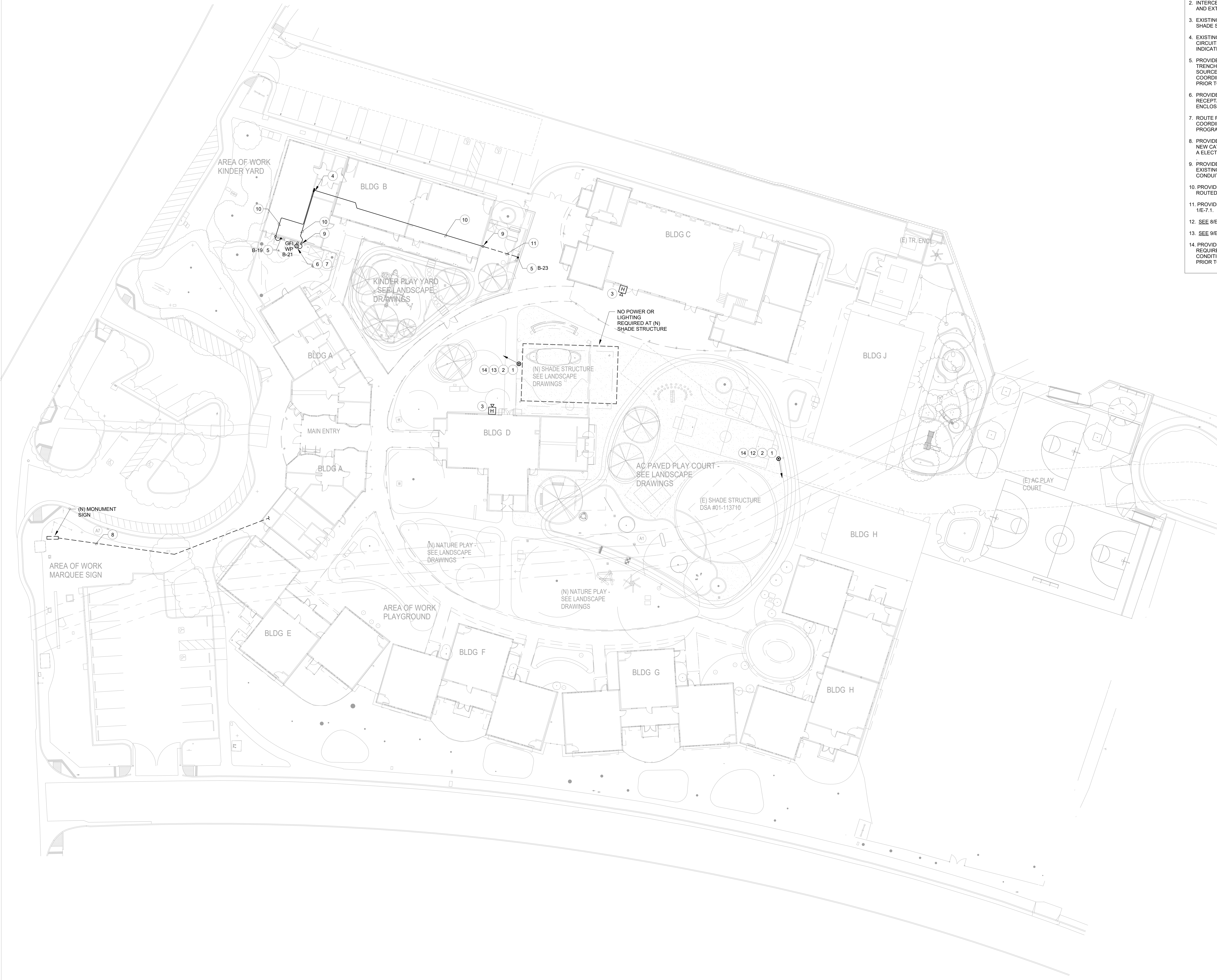
DRAWING TITLE

ELEC SYMBOLS LIST,
SHEET INDEX &
GENERAL NOTES

SCALE AS NOTED

E-0.1

COPYRIGHT © 2021 HKIT ARCHITECTS



- # NUMBERED SHEET NOTES**
- EXISTING SITE POLE LIGHT TO BE RELOCATED. PROVIDE AND INSTALL WORK TO REMOVE THE EXISTING POLE AND HEAD FROM EXISTING BASE. AND STORP TO RE-INSTALLATION TO NEW POLEBASE. THE EXISTING POLEBASE SHALL BE COMPLETELY EXCAVATED, DEMOLISHED AND REMOVED.
 - INTERCEPT THE EXISTING UNDERGROUND LIGHTING BRANCH CIRCUIT AND EXTEND TO THE NEW LOCATION SHOWN.
 - EXISTING FIRE ALARM NOTIFICATION DEVICE IN PROXIMITY TO NEW SHADE STRUCTURE.
 - EXISTING KINDERGARTEN BUILDING BRANCH PANEL. CONNECT BRANCH CIRCUITS COMPLETE TO EXISTING SPARE 20A/1P CIRCUIT BREAKERS AS INDICATED NEAR EACH EQUIPMENT.
 - PROVIDE AND INSTALL NEW 120V BRANCH CIRCUIT, AND ALL REQUIRED TRENCHING FOR NEW DRINKING FOUNTAIN. BRANCH CIRCUIT SHALL SOURCE FROM EXISTING KINDERGARTEN BUILDING BRANCH PANELS. COORDINATE ALL REQUIREMENTS WITH VENDOR SHOP DRAWING PRIOR TO ROUGH-IN.
 - PROVIDE AND INSTALL NEW SURFACE MOUNT 120V DUPLEX RECEPTACLE AT +90" A.F.G.. MOUNT IN WEATHERPROOF "WHILE-IN-USE" ENCLOSURE.
 - ROUTE RECEPTACLE BRANCH CIRCUIT VIA BUILDING TIMECLOCK. COORDINATE TIME SCHEDULE WITH DISTRICT AND PROVIDE PROGRAMMING.
 - PROVIDE AND INSTALL NEW 120V BRANCH CIRCUIT WIRING IN 1" C. AND NEW CAT6 OSP RATED DATA CABLING IN 1-1/4" C. HOMERUN TO BUILDING A ELECTRICAL ROOM. ROUTE IN TRENCH OR LINE BORE.
 - PROVIDE AND INSTALL WEATHERPROOF CONDUIT PENETRATION AT EXISTING EXTERIOR WALL. SEAL WATER-TIGHT. PAINT ALL EXPOSED CONDUITS PER DIRECTION OF ARCHITECT.
 - PROVIDE AND INSTALL (2) #12 + (1) #10G IN 3/4" C. (OR MC CABLE ROUTED WITHIN EXISTING ACCESSIBLE CEILING SPACE.
 - PROVIDE AND INSTALL (2) #12 + (1) #10G. IN 1" C. UNDERGROUND. SEE 1/E-7.1.
 - SEE 8/E7.1 FOR NEW POLE BASE DETAIL.
 - SEE 9/E7.1 FOR NEW POLE BASE DETAIL.
 - PROVIDE ALL EARTH, REPAIR, AND NEW FINISHED SURFACE, AS REQUIRED TO RETURN EXCAVATED POLE BASE AREA TO LIKE NEW CONDITIONS. COORDINATE ALL REQUIREMENTS WITH THE ARCHITECT PRIOR TO COMMENCING POLE REMOVAL WORK.

1 SITE PLAN - ELECTRICAL
1" = 20'-0"

HKIT ARCHITECTS

538 NINTH STREET SUITE 240 • OAKLAND CA 94607
T 5 0 625 9800 • F 5 0 625 9801 • WWW.HK.T.COM

O'MAHONY & MYER
ELECTRICAL ENGINEERING & SURVEYING DESIGN
4540 REDWOOD HWY. SUITE 245
SAN RAFAEL, CALIFORNIA 94903
(415) 492-0420/FAX (415) 479-9662

Professional Engineer
ELECTRICAL
STATE OF CALIFORNIA
No. E 14738
Exp. 6/05
9/27/24

**COLEMAN
ELEMENTARY
KINDERGARTEN
PLAY YARD AND
PLAY GROUND
MODERNIZATION**

SAN RAFAEL, CA

JOB NO. 23007 PH 2
DRAWN JJK
CHECKED PJC
JOB CAPTAIN JJK
DATE

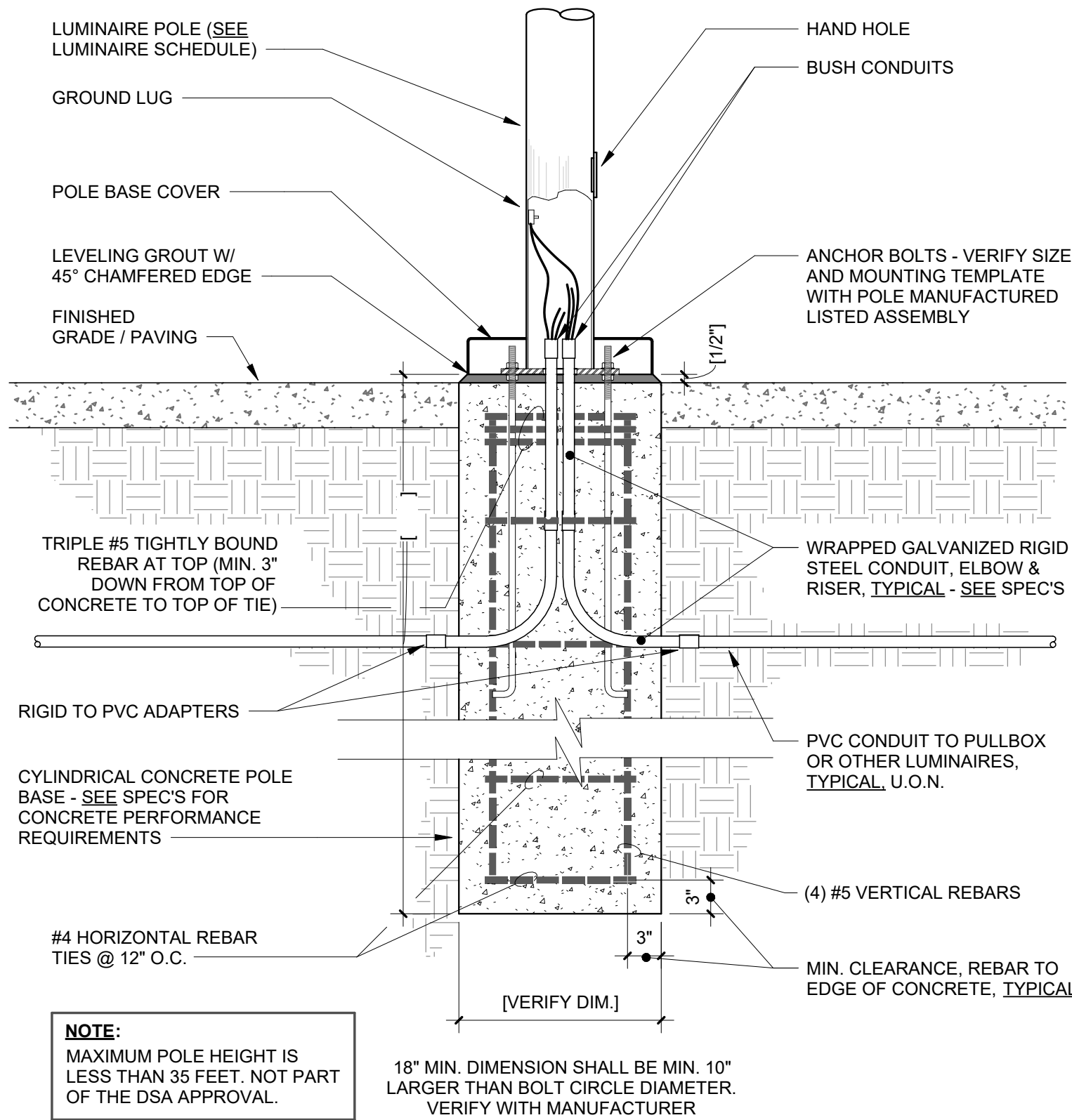
DSA SUBMITTAL 10/01/24

DRAWING TITLE
**SITE PLAN -
ELECTRICAL**

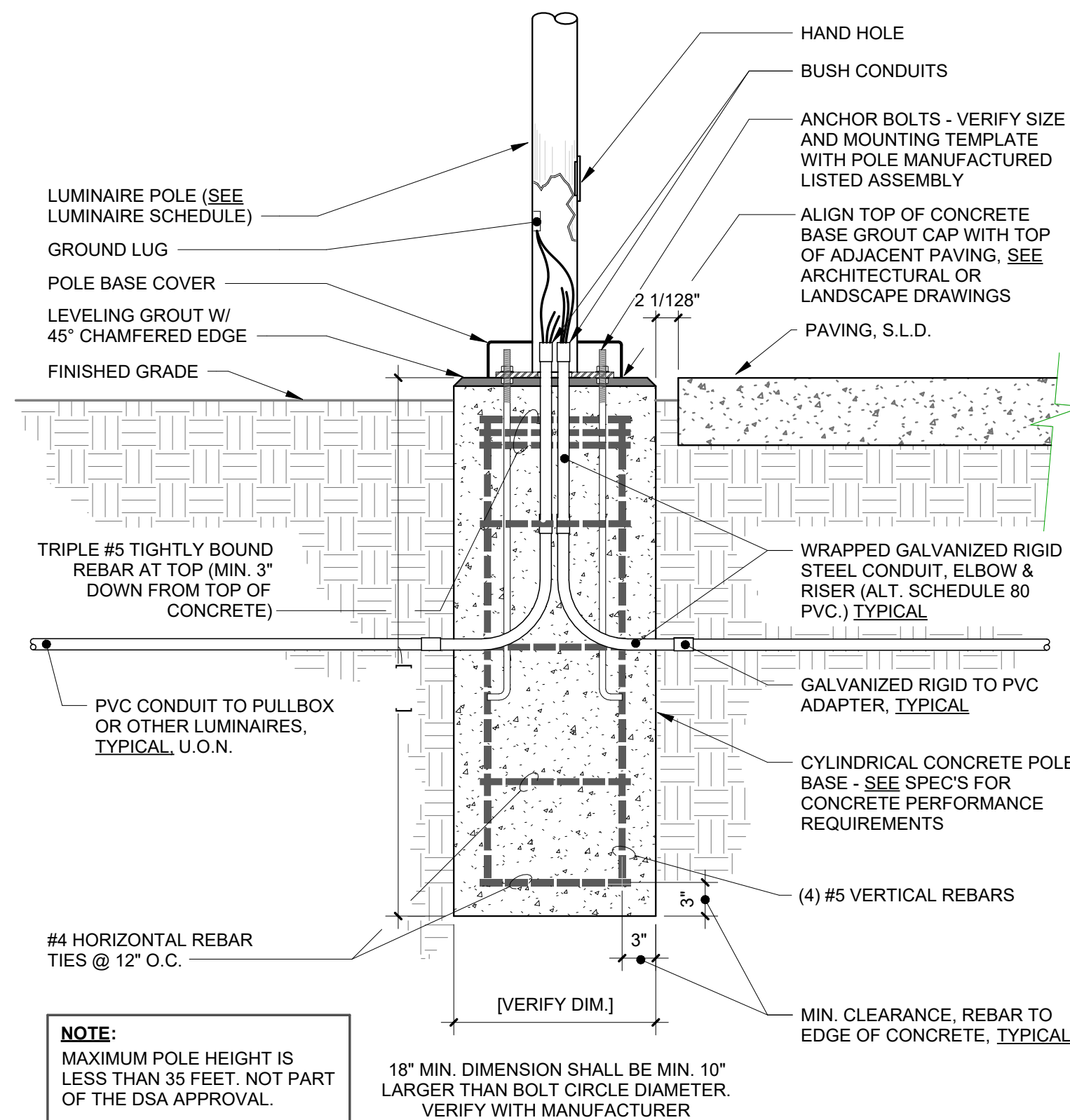
SCALE AS NOTED

E-1.1

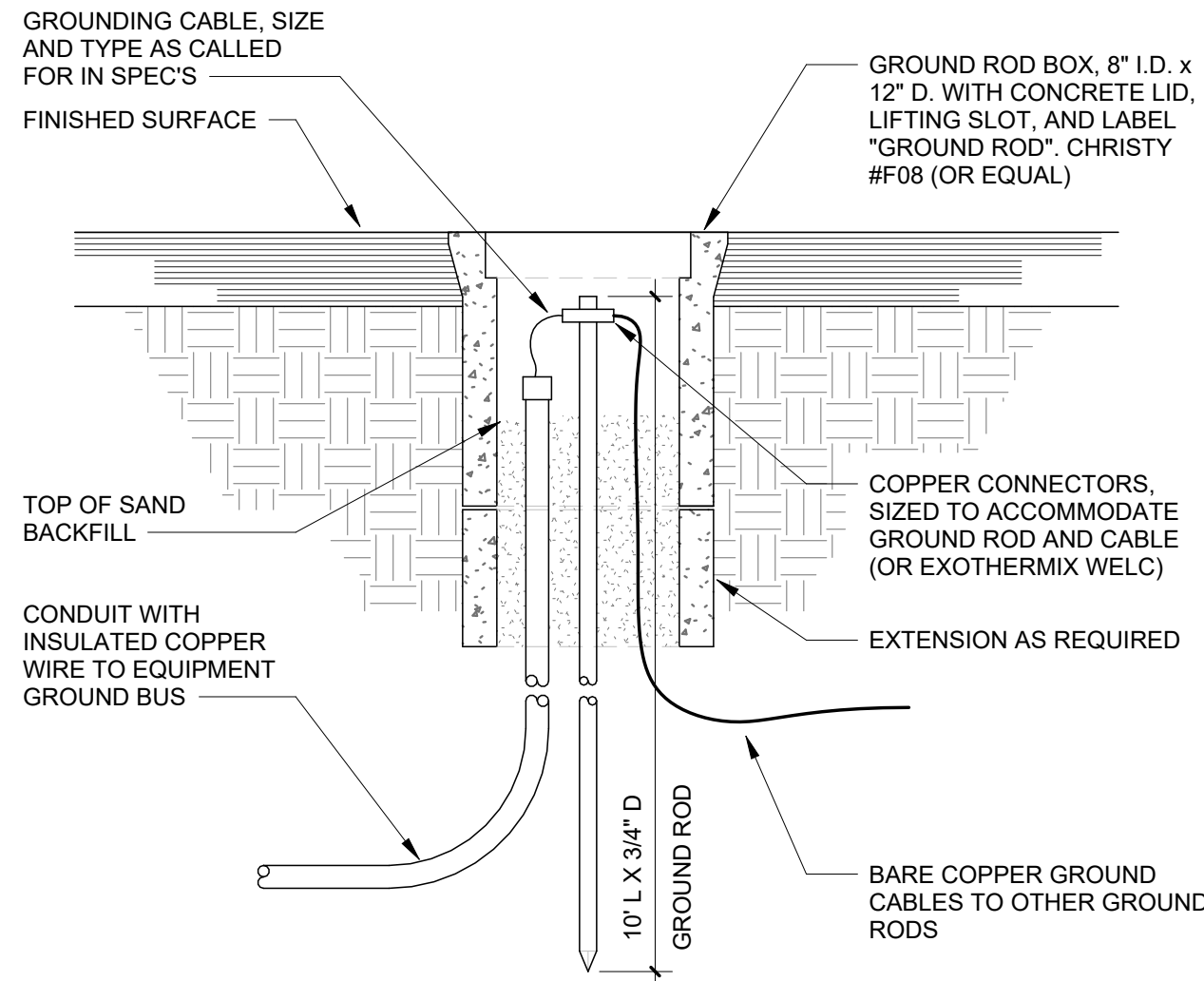
COPYRIGHT © 2021 HKIT ARCHITECTS



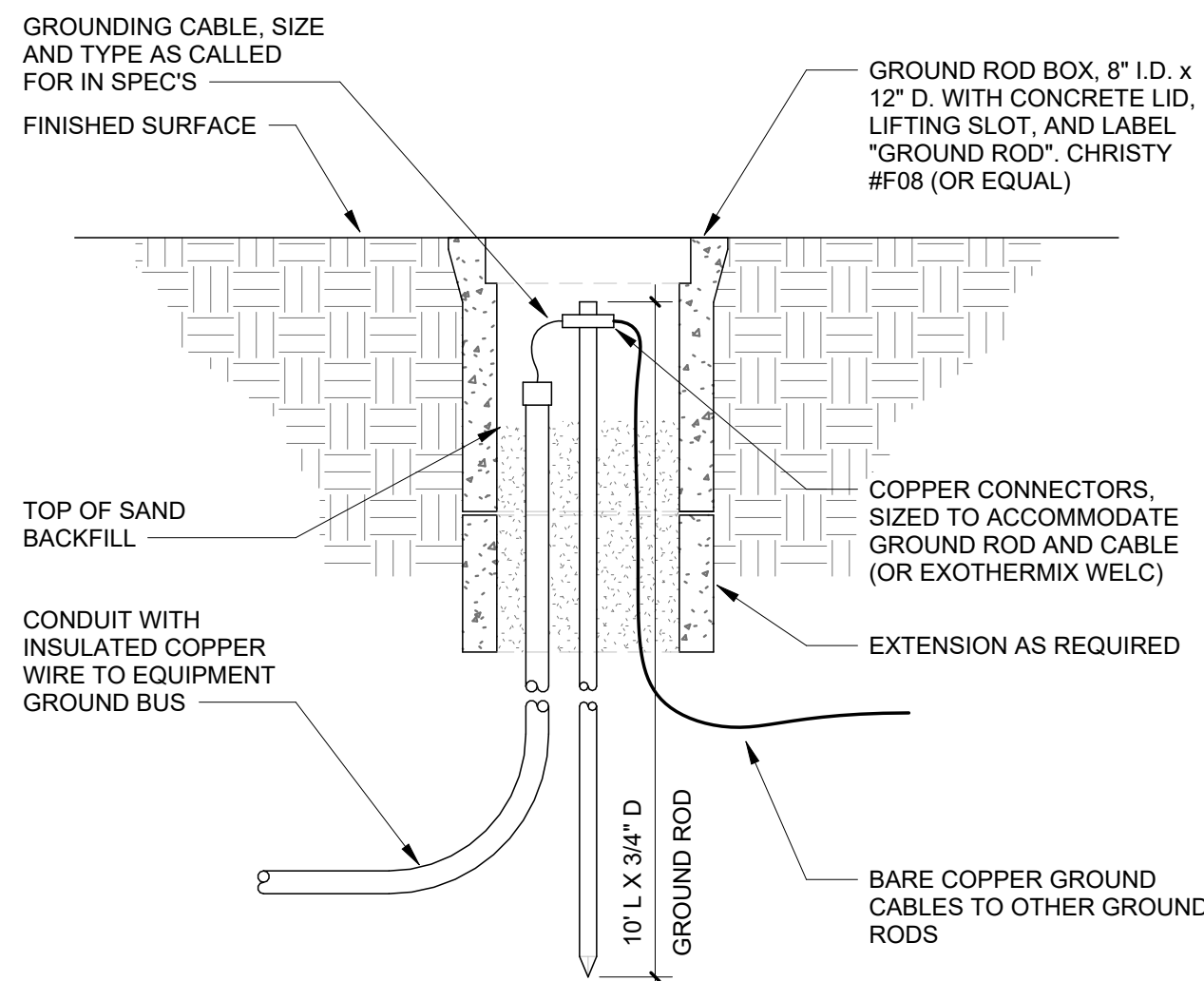
8 POLE BASE AT PLANTING AREA
NOT TO SCALE



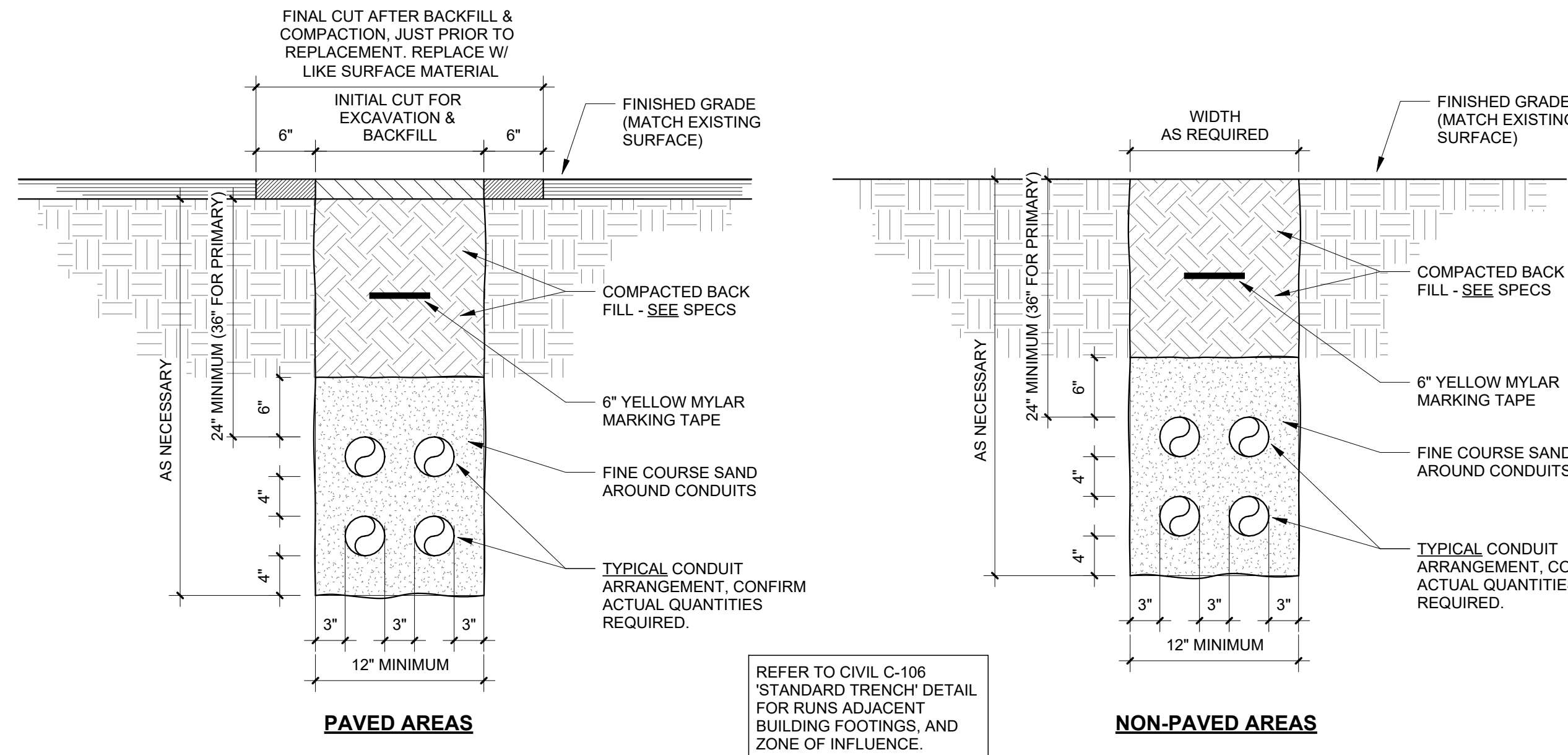
9 POLE BASE AT PLANTING AREA
NOT TO SCALE



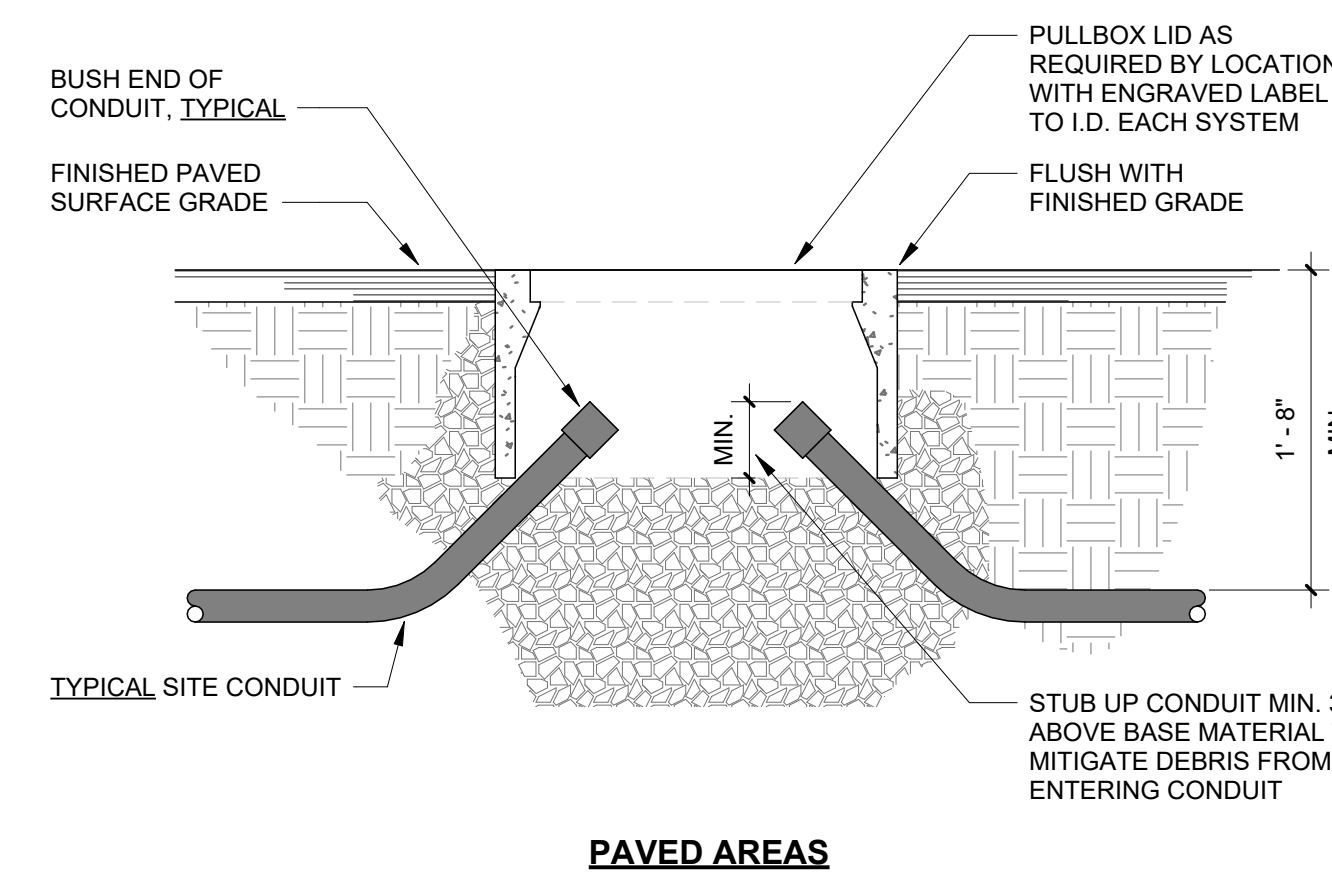
6 GROUND ROD - FINISHED SURFACE
1 1/2" = 1'-0"



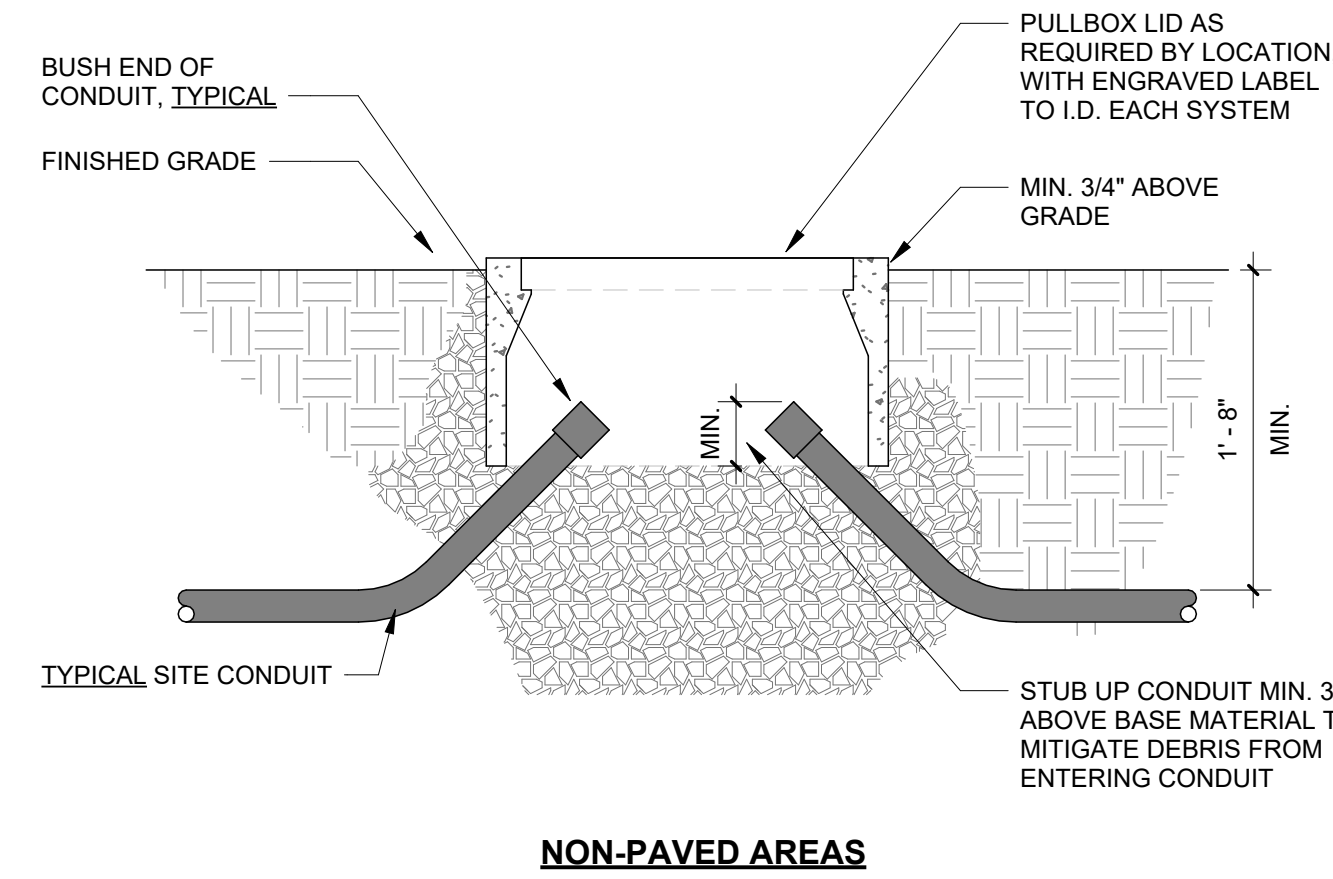
7 GROUND ROD - EARTH
1 1/2" = 1'-0"



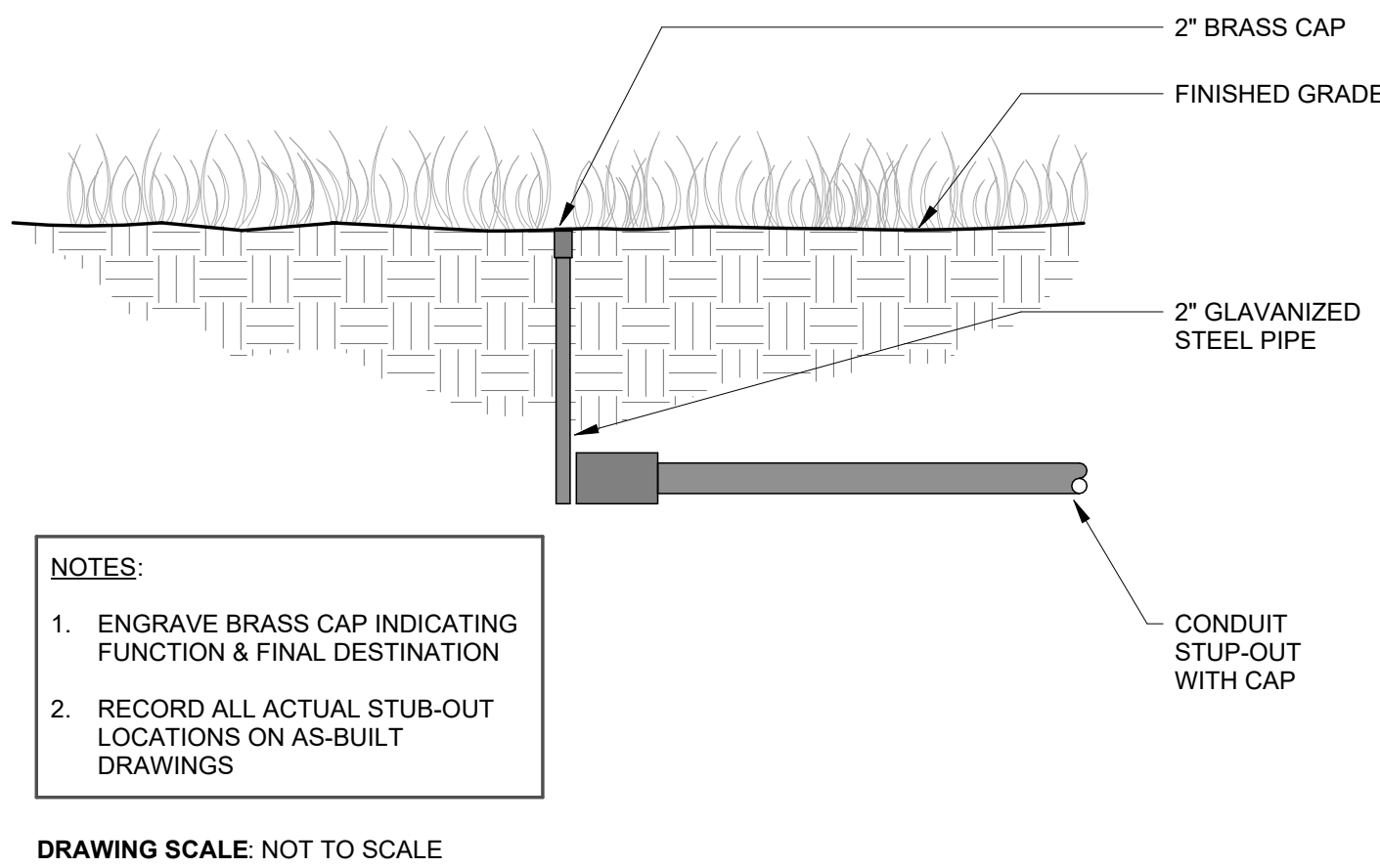
1 TYPICAL TRENCH SECTIONS
1" = 1'-0"



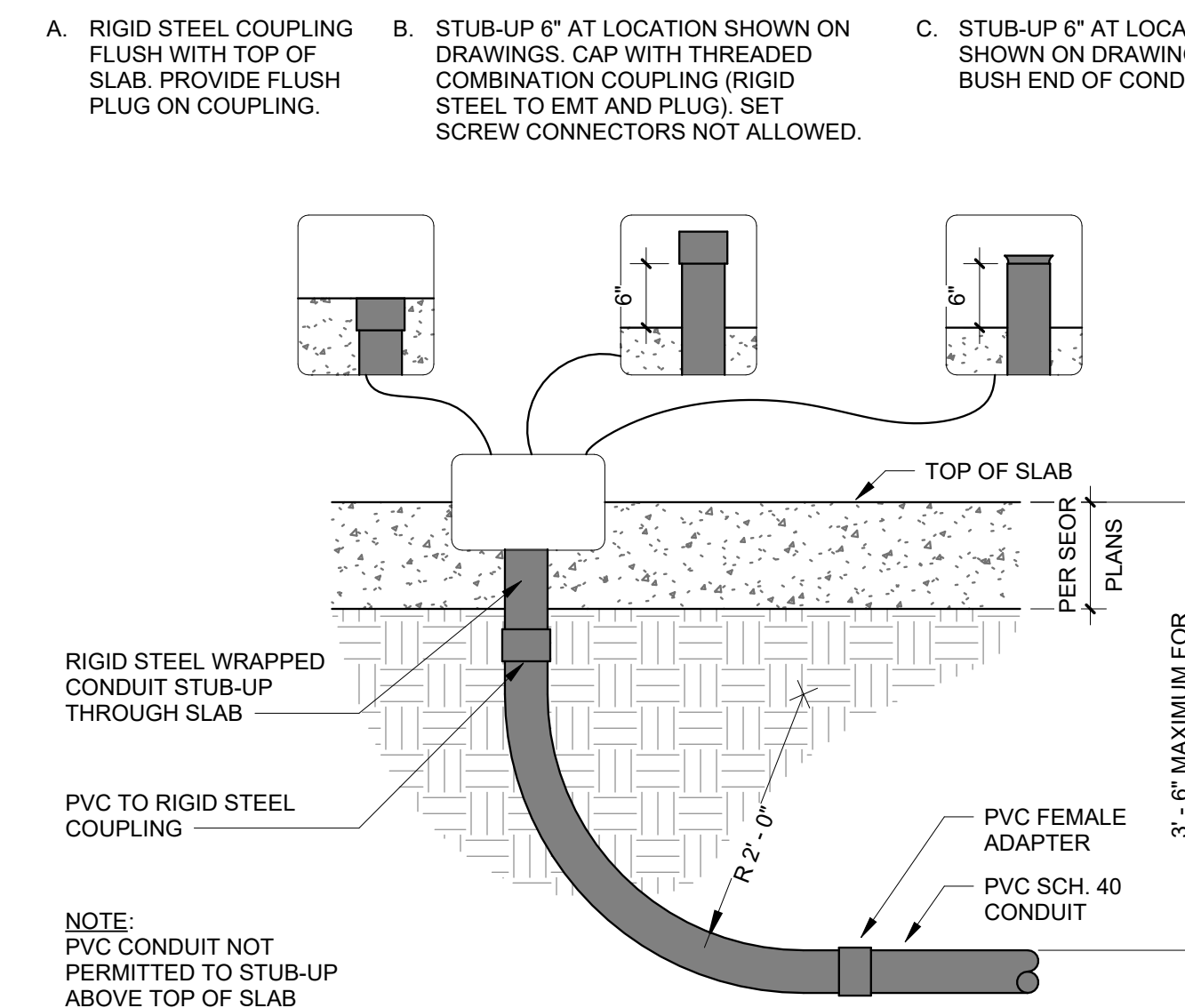
2 TYPICAL PULLBOX SECTION
1" = 1'-0"



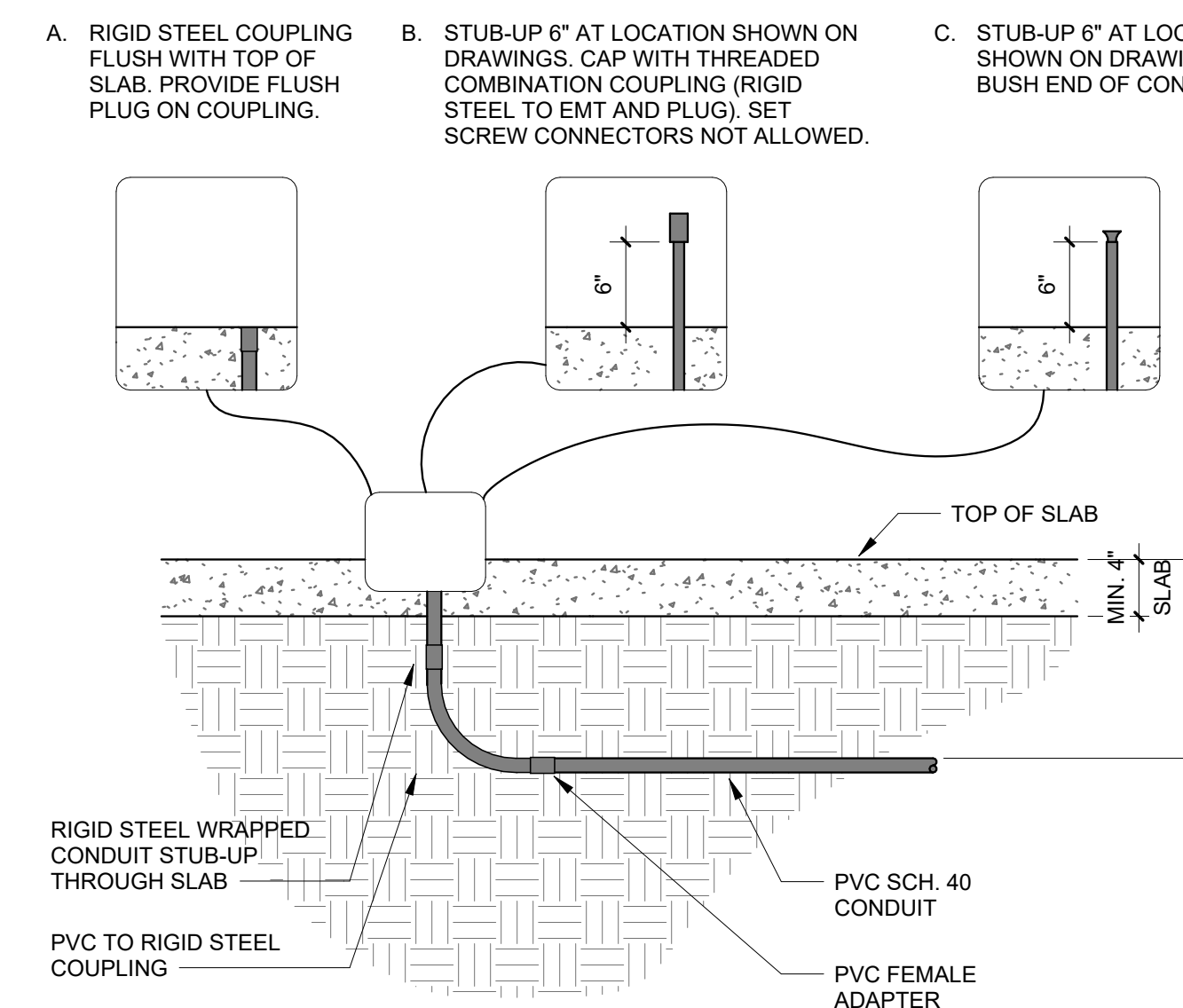
3 CONDUIT STUB-UP - FEEDERS - LONG RADIUS BENDS
3/4" = 1'-0"



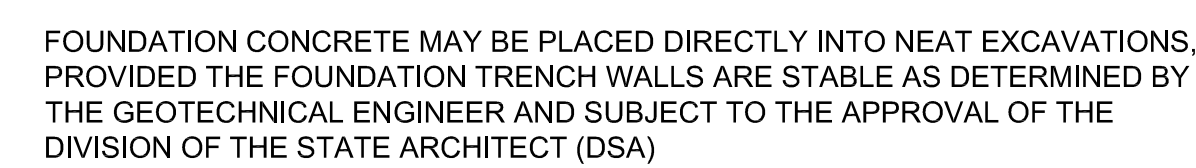
5 CONDUIT STUB-OUT
1" = 1'-0"



3 CONDUIT STUB-UP - FEEDERS - LONG RADIUS BENDS
3/4" = 1'-0"



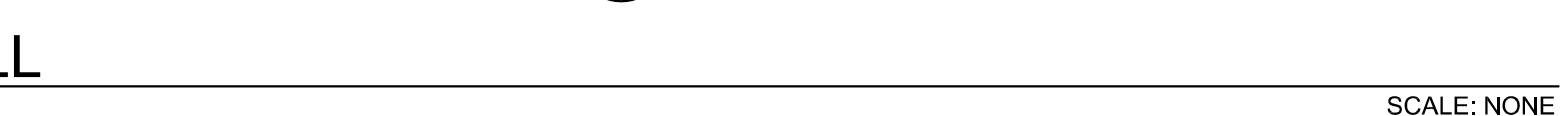
4 CONDUIT STUB-UP
1" = 1'-0"



TENSION LAP SPLICE FOR GRADE 60 BARS (ALL OTHER BARS

NOTES:

1. TOP BARS = HORIZONTAL BARS (OTHER THAN IN WALLS) PLACED WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW THEM.
2. TABLES ABOVE ARE BASED UPON MINIMUM CLEAR COVER GREATER THAN 1.0db AND MINIMUM CLEAR SPACING GREATER THAN 2db, WHERE EITHER OF THESE REQUIREMENTS IS NOT MET, INCREASE LAP LENGTH BY 50%.
3. USE CLASS B FOR ALL BAR SPLICES, UON.



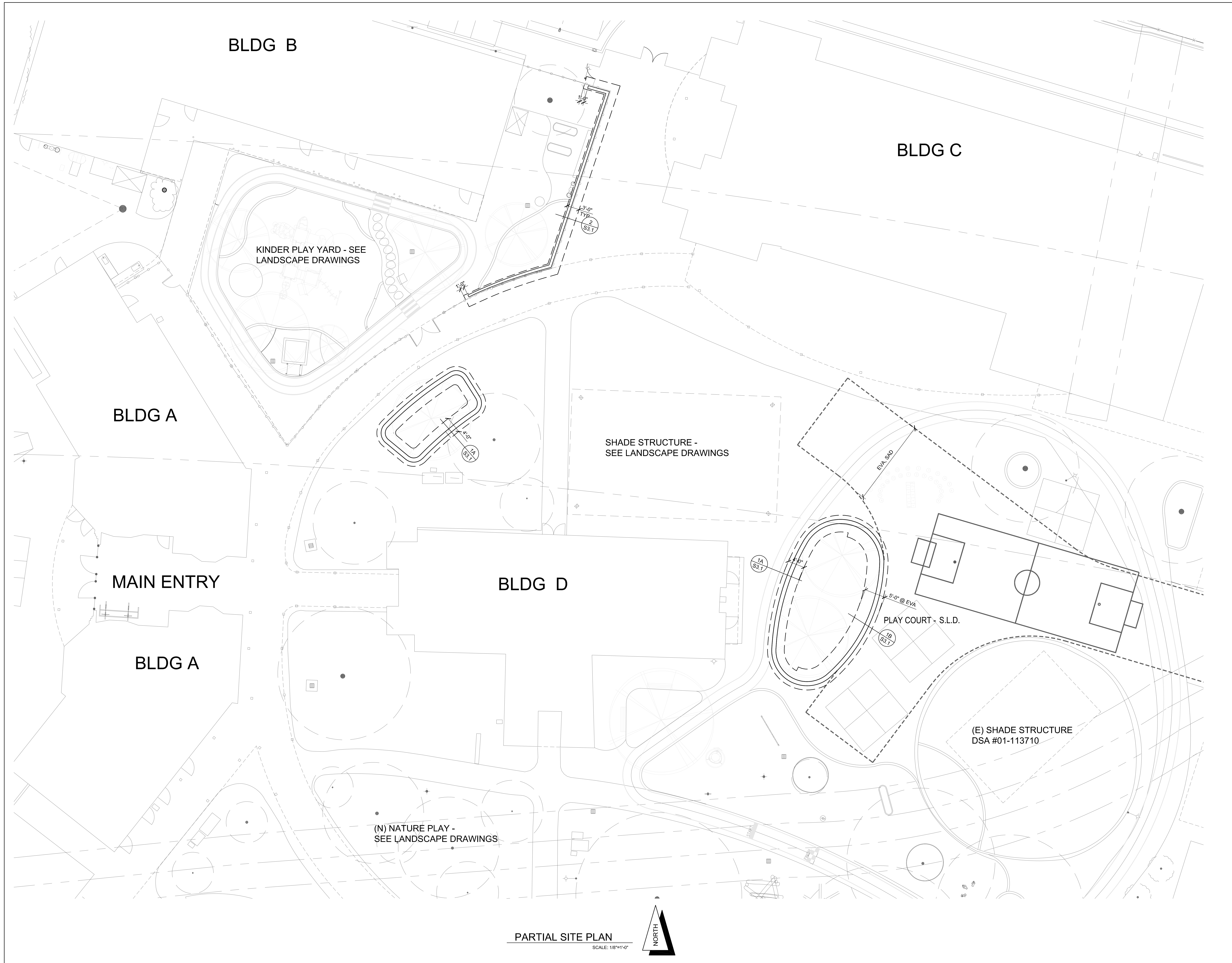
STRUCTURAL ENGINEER
360 CIVIC DRIVE SUITE F
PLEASANT HILL CA 94523
TELEPHONE: 925 825-9540
E-MAIL: STAFF@HDRSE.COM

JOB NUMBER: 9789

JOB NO. 23007 PH 2
DRAWN JB /FR
CHECKED
JOB CAPTAIN
DATE
DSA SUBMITTAL 10/01/24

SCALE	AS NOTED
-------	----------

COPYRIGHT © 2021 HKIT ARCHITECTS



HKITARCHITECTS
538 NINTH STREET SUITE 240 • OAKLAND, CA 94607
T 510 625 9800 • F 510 625 9801 • WWW.HKIT.COM



H.D. Rueb
STRUCTURAL ENGINEER
360 CIVIC DRIVE SUITE F
PLEASANT HILL, CA 94523
TELEPHONE: 925 825-9540
E-MAIL: STAFF@HORSE.COM
JOB NUMBER: 9789

COLEMAN
ELEMENTARY
KINDERGARTEN PLAY
YARD AND PLAY
GROUND
MODERNIZATION
SAN RAFAEL, CA

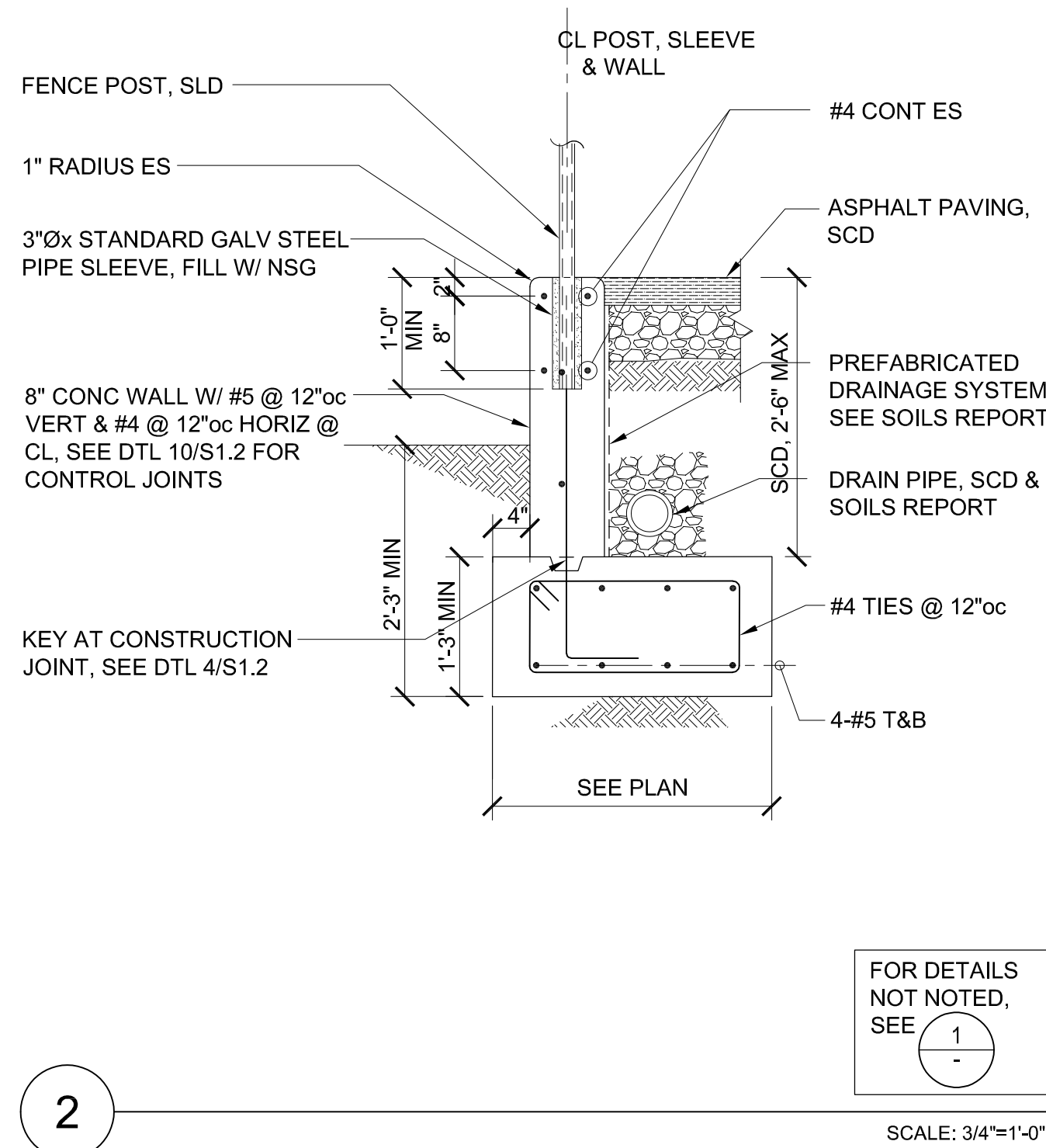
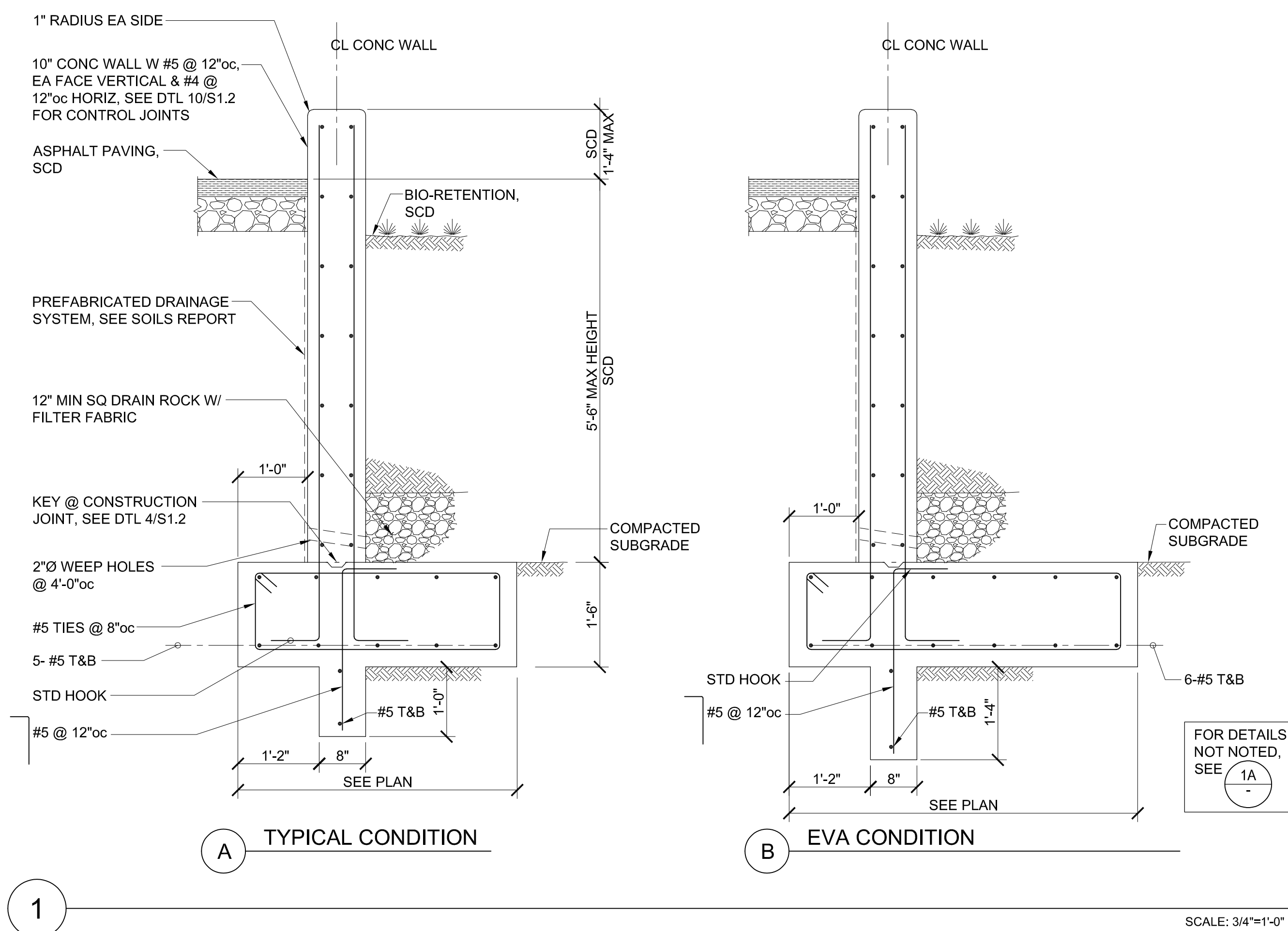
JOB NO. 23007 PH 2
DRAWN JB /FR
CHECKED
JOB CAPTAIN
DATE DSA SUBMITTAL 10/01/24

DRAWING TITLE
PARTIAL SITE PLAN

SCALE AS NOTED

S2.1

COPYRIGHT © 2021 HKIT ARCHITECTS



COLEMAN
ELEMENTARY
KINDERGARTEN PLAY
YARD AND PLAY
GROUND
MODERNIZATION
SAN RAFAEL, CA

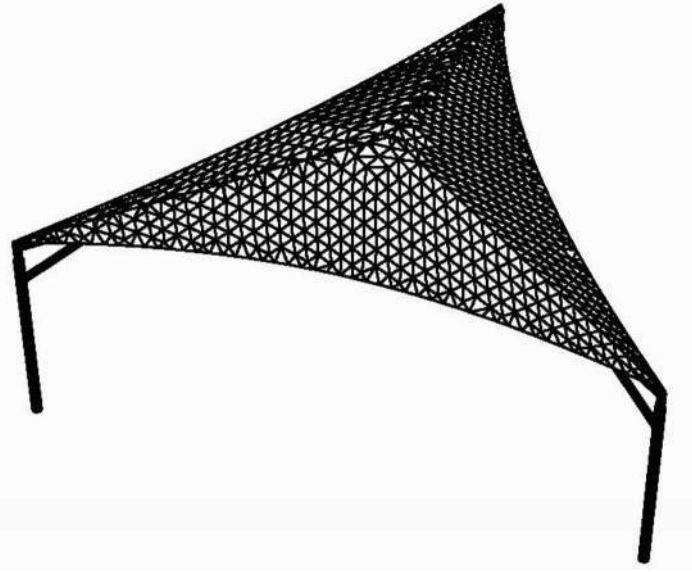
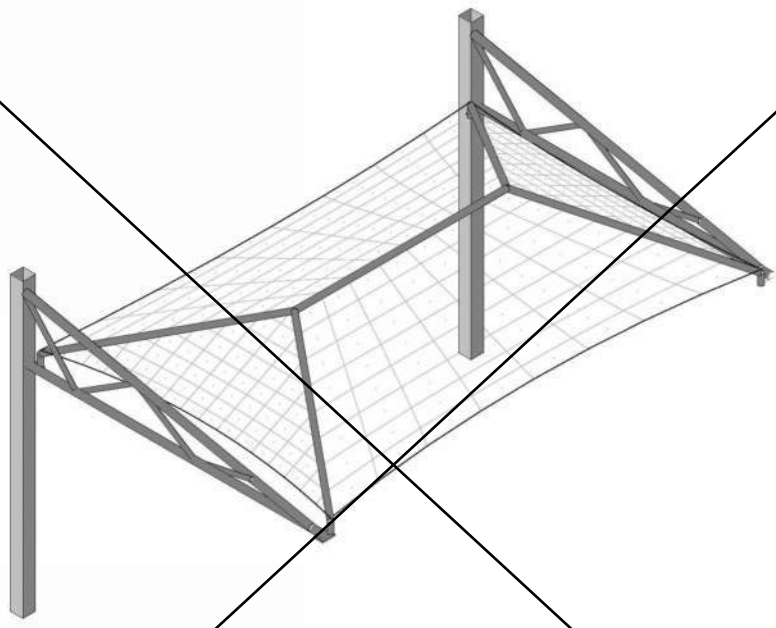
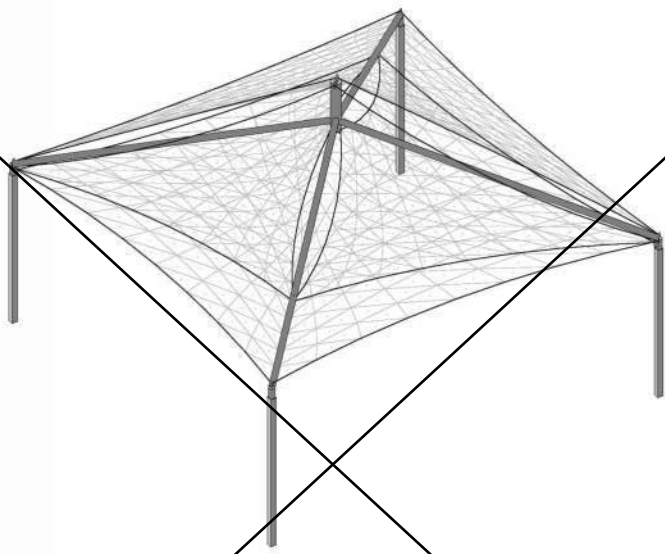
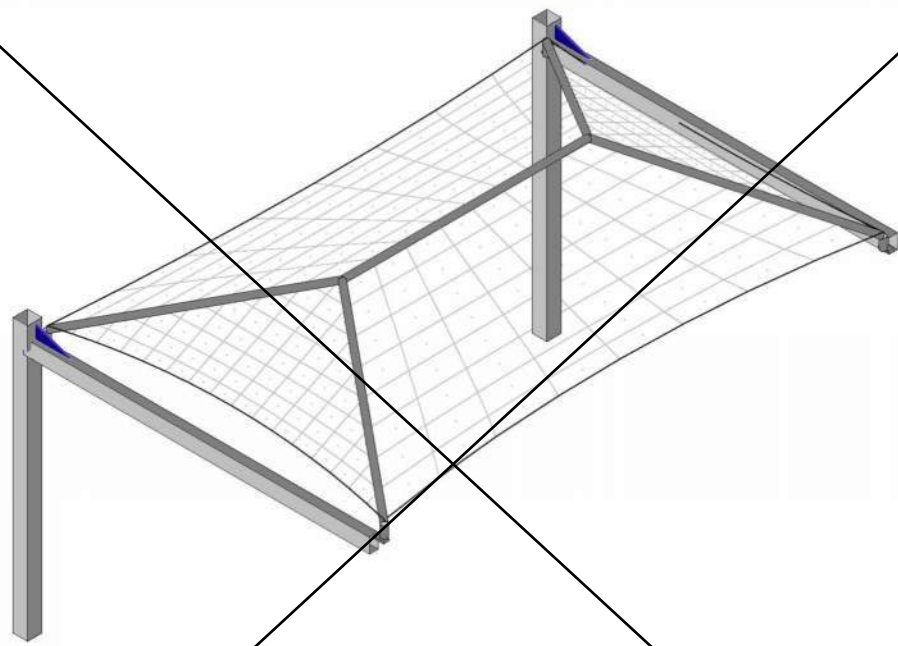
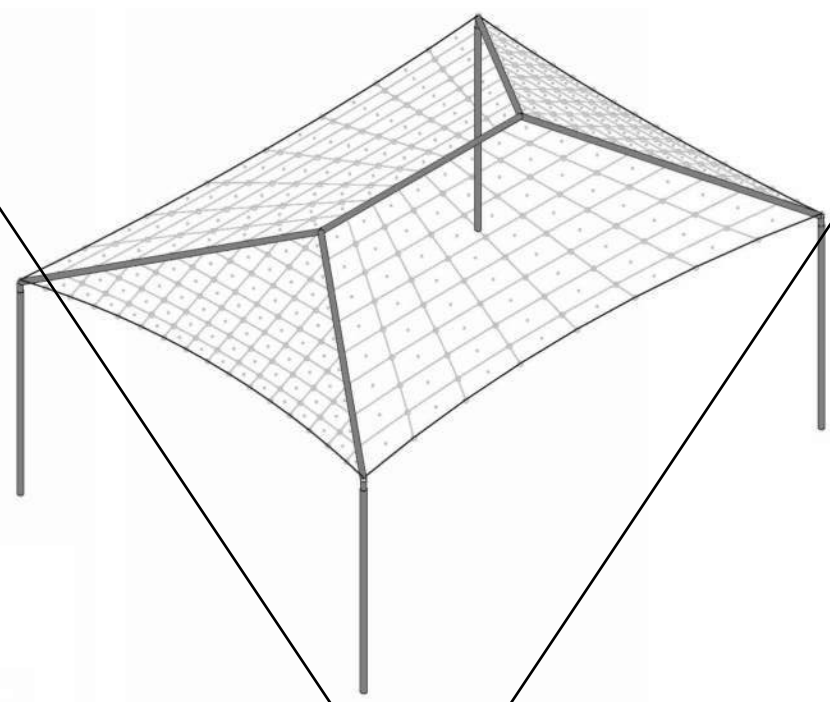

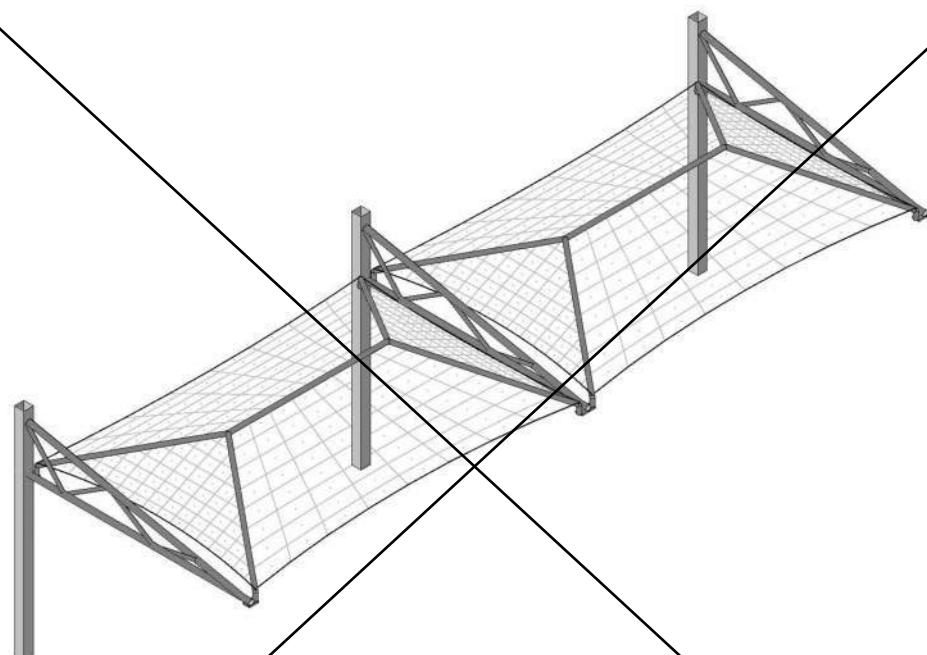
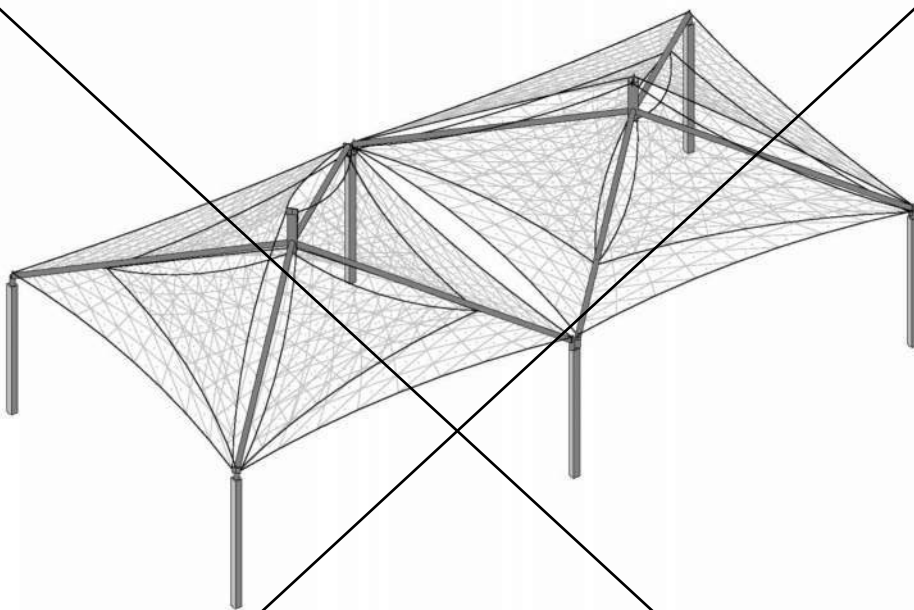
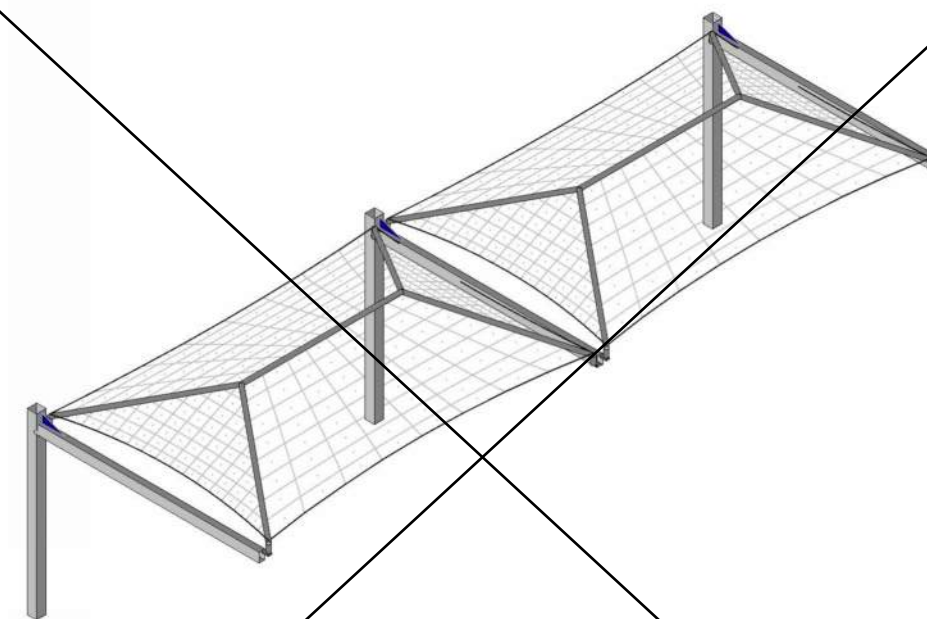
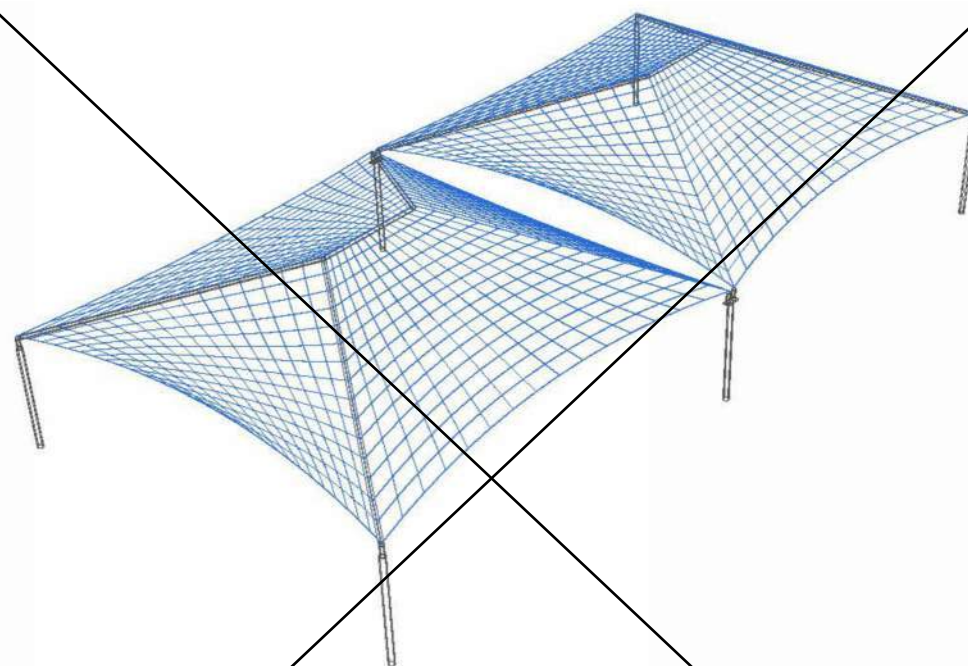
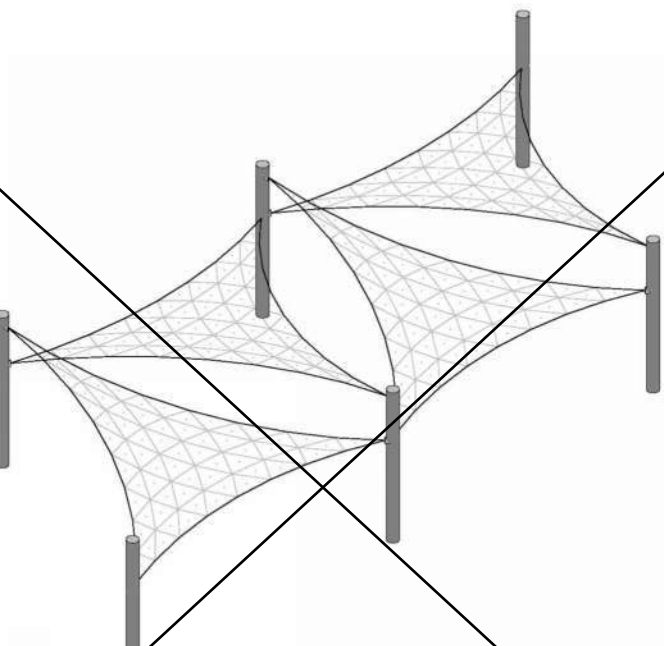
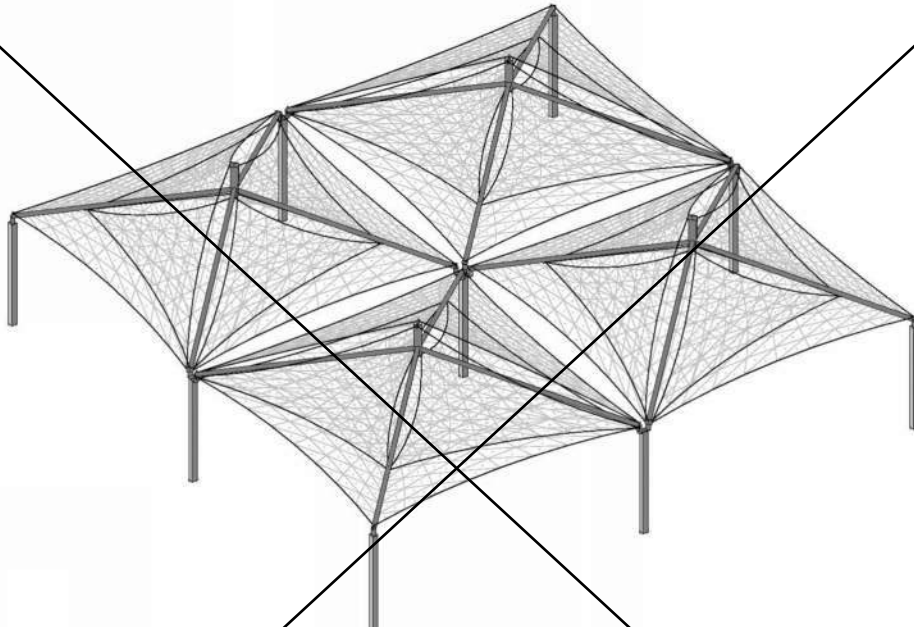
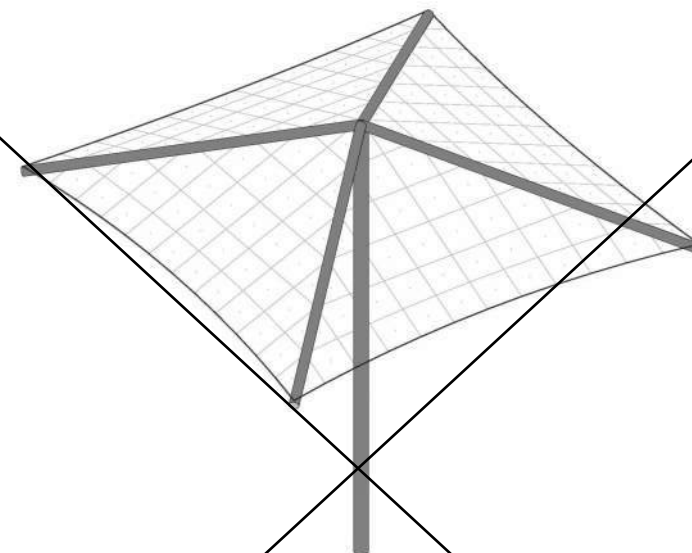
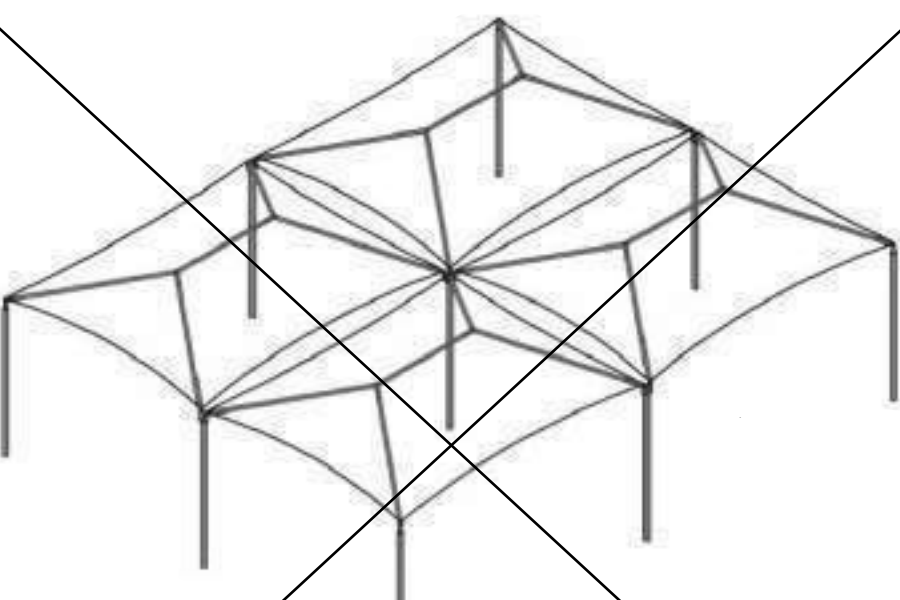
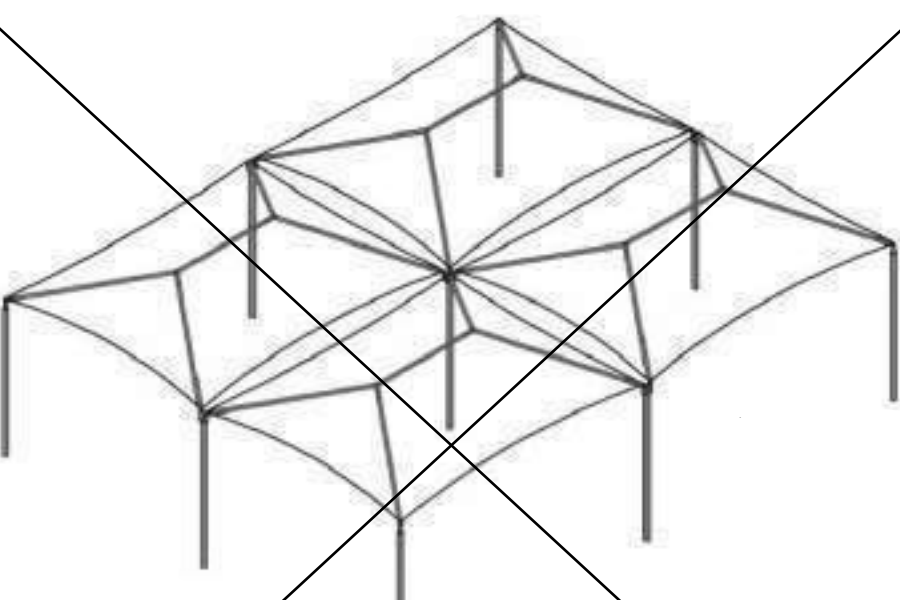
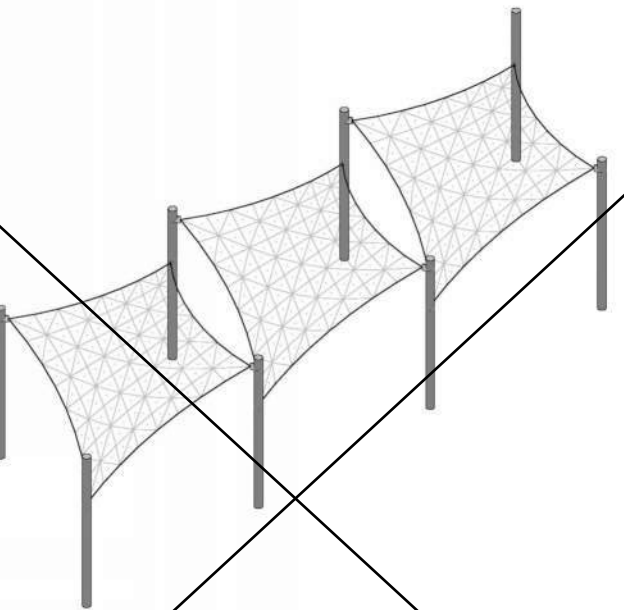
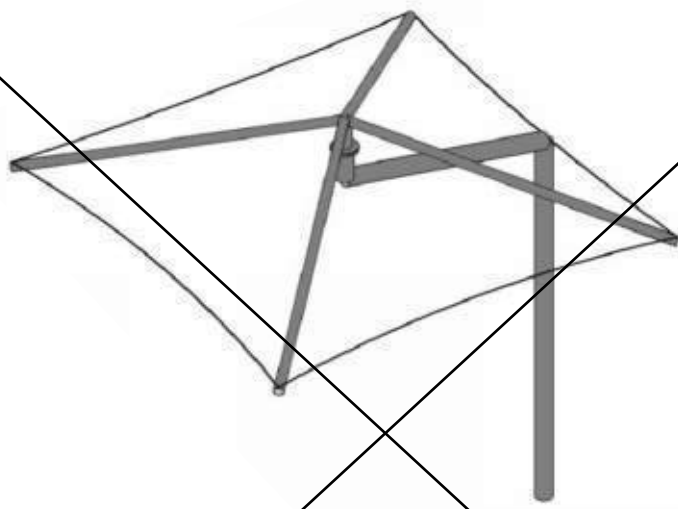
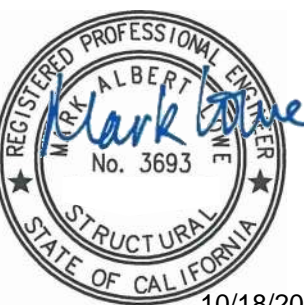
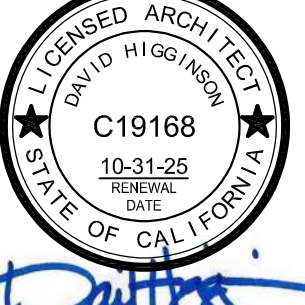
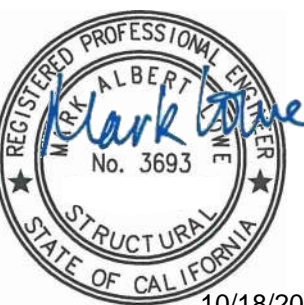
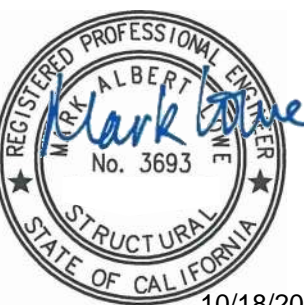
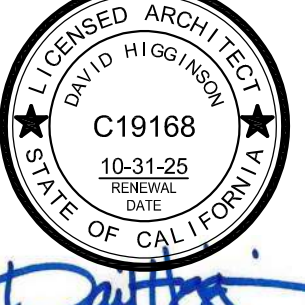
JOB NO. 23007 PH 2
DRAWN JB /FR
CHECKED
JOB CAPTAIN
DATE
DSA SUBMITTAL 10/01/24

DRAWING TITLE
FOUNDATION
DETAILS


SCALE AS NOTED

S3.1

COPYRIGHT © 2021 HKIT ARCHITECTS

									
<div><div>X</div><div>STRUCTURE MODEL: MAX. SIZE: MAX. AREA: MAX. OCCUPANCY:</div><div>DSA30125-22 25' x 25' x 15' 271 SQ. FT. 16 PERSONS</div><div>SEE SHEET 26.1-1000</div></div>		<div><div></div><div>STRUCTURE MODEL: MAX. SIZE: MAX. AREA: MAX. OCCUPANCY:</div><div>DSA2062030-22 20' x 30' x 15' 600 SQ. FT. 40 PERSONS</div><div>SEE SHEET 21.1-1000</div></div>		<div><div></div><div>STRUCTURE MODEL: MAX. SIZE: MAX. AREA: MAX. OCCUPANCY:</div><div>DSA4073030-22 30' x 30' x 15' 600 SQ. FT. 40 PERSONS</div><div>SEE SHEET 17.1-1000</div></div>		<div><div></div><div>STRUCTURE MODEL: MAX. SIZE: MAX. AREA: MAX. OCCUPANCY:</div><div>DSA20202030-22 20' x 30' x 15' 600 SQ. FT. 40 PERSONS</div><div>SEE SHEET 11.1-1000</div></div>		<div><div></div><div>STRUCTURE MODEL: MAX. SIZE: MAX. AREA: MAX. OCCUPANCY:</div><div>DSA4012030-22 20' x 30' x 15' 600 SQ. FT. 40 PERSONS</div><div>SEE SHEET 1.1-1000</div></div>	
FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0		FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0		FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0		FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0		FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0	
TRIANGLE		TRI-TRUSS HIP SINGLE WIDE		MARINER PEAK		FULL CANTILEVER HIP SINGLE		HIP	
									
<div><div></div><div>STRUCTURE MODEL: MAX. SIZE: MAX. AREA: MAX. OCCUPANCY:</div><div>DSA60340-22 640' x 15' 1,040 SQ. FT. 69 PERSONS</div><div>SEE SHEET 28.1-1000</div></div>		<div><div></div><div>STRUCTURE MODEL: MAX. SIZE: MAX. AREA: MAX. OCCUPANCY:</div><div>DSA60360-22 680' x 15' 1,238 SQ. FT. 156 PERSONS</div><div>SEE SHEET 29.1-1000</div></div>		<div><div></div><div>STRUCTURE MODEL: MAX. SIZE: MAX. AREA: MAX. OCCUPANCY:</div><div>DSA4073060-22 30' x 150' x 15' 3,990 SQ. FT. 266 PERSONS</div><div>SEE SHEET 19.1-1000</div></div>		<div><div></div><div>STRUCTURE MODEL: MAX. SIZE: MAX. AREA: MAX. OCCUPANCY:</div><div>DSA3022060-22 20' x 200' x 15' 4,000 SQ. FT. 266 PERSONS</div><div>SEE SHEET 12.1-1000</div></div>		<div><div></div><div>STRUCTURE MODEL: MAX. SIZE: MAX. AREA: MAX. OCCUPANCY:</div><div>DSA401J-22 VARIES. SEE JOINED HIP UNIT SHEET VARIES VARIES</div><div>SEE SHEET 9.1-1000</div></div>	
FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0		FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0		FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0		FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0		FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0	
HEXAGON		TRI-TRUSS HIP JOINED		MARINER PEAK JOINED		FULL CANTILEVER HIP JOINED		JOINED HIP	
									
<div><div></div><div>STRUCTURE MODEL: MAX. SIZE: MAX. AREA: MAX. OCCUPANCY:</div><div>DSA30730-22 30' x 133' x 15' 4,000 SQ. FT. 266 PERSONS</div><div>SEE SHEET 23.1-1000</div></div>		<div><div></div><div>STRUCTURE MODEL: MAX. SIZE: MAX. AREA: MAX. OCCUPANCY:</div><div>DSA40706060-22 60' x 60' x 10' 3,600 SQ. FT. 240 PERSONS</div><div>SEE SHEET 20.1-1000</div></div>		<div><div></div><div>STRUCTURE MODEL: MAX. SIZE: MAX. AREA: MAX. OCCUPANCY:</div><div>DSA1031414-22 14' x 14' x 12' 198 SQ. FT. 13 PERSONS</div><div>SEE SHEET 13.1-1000</div></div>		<div><div></div><div>STRUCTURE MODEL: MAX. SIZE: MAX. AREA: MAX. OCCUPANCY:</div><div>DSA1032020-22 20' x 20' x 12' 400 SQ. FT. 26 PERSONS</div><div>SEE SHEET 14.1-1000</div></div>		<div><div></div><div>STRUCTURE MODEL: MAX. SIZE: MAX. AREA: MAX. OCCUPANCY:</div><div>DSA401Q-22 VARIES. SEE QUAD HIP UNIT SHEET VARIES VARIES</div><div>SEE SHEET 10.1-1000</div></div>	
FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0		FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0		FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0		FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0		FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0	
NOT USED		TENSIONS SAILS THREE-POINT		MARINER PEAK QUAD		SINGLE POST PYRAMID		QUAD HIP	
									
<div><div></div><div>STRUCTURE MODEL: MAX. SIZE: MAX. AREA: MAX. OCCUPANCY:</div><div>DSA4182020-22 20' x 200' x 15' 4,000 SQ. FT. 266 PERSONS</div><div>SEE SHEET 24.1-1000</div></div>		<div><div></div><div>STRUCTURE MODEL: MAX. SIZE: MAX. AREA: MAX. OCCUPANCY:</div><div>DSA4183030-22 30' x 133' x 15' 3,990 SQ. FT. 266 PERSONS</div><div>SEE SHEET 25.1-1000</div></div>		<div><div></div><div>STRUCTURE MODEL: MAX. SIZE: MAX. AREA: MAX. OCCUPANCY:</div><div>DSA1241414-22 14' x 14' x 12' 198 SQ. FT. 13 PERSONS</div><div>SEE SHEET 15.1-1000</div></div>		<div><div></div><div>STRUCTURE MODEL: MAX. SIZE: MAX. AREA: MAX. OCCUPANCY:</div><div>DSA1242020-22 20' x 20' x 12' 400 SQ. FT. 26 PERSONS</div><div>SEE SHEET 16.1-1000</div></div>		<div><div></div><div>STRUCTURE MODEL: MAX. SIZE: MAX. AREA: MAX. OCCUPANCY:</div><div>DSA401Q-22 VARIES. SEE QUAD HIP UNIT SHEET VARIES VARIES</div><div>SEE SHEET 10.1-1000</div></div>	
FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0		FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0		FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0		FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0		FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0	
NOT USED		TENSIONS SAILS FOUR-POINT		NOT USED		SINGLE POST PYRAMID CANTILEVER		 	

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF USA SHADE AND FABRIC STRUCTURES AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN



CORPORATE HEADQUARTERS
2580 ESTERS BLVD. SUITE 100
DFW AIRPORT, TX, 75261
800-966-5005

CERTIFICATIONS:

IAS CERTIFICATION No: FA-428
CLARK COUNTY MANUFACTURER
CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:

San Rafael City Schools

PROJECT NAME:

Coleman Elementary School

LOCATION:

800 Belle Avenue
San Rafael, CA 94901

MODEL NUMBER:

APPROVED

DIV. OF THE STATE ARCHITECT

APP: 04-121917 PC

REVIEWED FOR

SS ☒ PLS ☒ ACS ☒ CG ☐

DATE: 10/30/2023

STRUCTURE TYPE:

SCALE : VARIES

DRAWING SIZE:

D

PRE-CHECK (P)
DOCUMENT
Code : 2022 CBC
A separate project application
for construction is required.

Eng. By : DWH2/14/23

Design By : DWH2/14/23

Approved By : DWH2/14/23

DRAWING DESCRIPTION:

DWG. UNIT SELECTION

SHEET T-2.0

REV.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2022 CBC

Application Number: 04-121917

DSA File Number: 04-121917

School Name: PC FABRIC SHADE STRUCTURES

Increment Number: 2023-02-15 15:23:09

School District: USA SHADE AND FABRIC STRUCTURES

Date Created: 2023-02-15 15:23:09

2022 CBC

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for construction or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, and bridge of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 CBC).

****NOTE:** Undefined section and table references found in this document are from the CBC, or California Building Code.

KEY TO COLUMNS

1. TYPE

2. PERFORMED BY

Continuous – Indicates that a continuous special inspection is required.

Periodic – Indicates that a periodic special inspection is required.

Test – Indicates that a test is required.

Geotechnical Engineer – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative.

Laboratory of Record – Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Compliance (EA) Program. See CAC Section 4.335.

Project Inspector – Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA.

Special Inspection – Indicates that the special inspection shall be performed by an appropriately qualified and approved special inspector.

DIVISION OF THE STATE ARCHITECT
DGS DSA 103-22 (Revised 12/01/2022)

DEPARTMENT OF GENERAL SERVICES
Page 1 of 17

STATE OF CALIFORNIA

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (CONCRETE), 2022 CBC

Table 1705A.3: ACI 318-19 Sections 26.12 & 26.13

Application Number: 04-121917

DSA File Number: 04-121917

School Name: PC FABRIC SHADE STRUCTURES

Increment Number: 2023-02-15 15:23:09

School District: USA SHADE AND FABRIC STRUCTURES

Date Created: 2023-02-15 15:23:09

C1. CAST-IN-PLACE CONCRETE

Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/> a. Verify use of required design mix.	Periodic	SI	Table 1705A.3 Item 5, 170A.1.
<input checked="" type="checkbox"/> b. Identify, sample, and test reinforcing steel.	Test	LOR	1705A.2, ACI 318-19 Ch.20 and Section 26.6.1.2; DSA IR 17-10. (See Appendix (end of this form) for exemptions.)
<input checked="" type="checkbox"/> c. During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	Test	LOR	Table 1705A.3 Item 6; ACI 318-19 Sections 26.5 & 26.12.
<input checked="" type="checkbox"/> d. Test concrete (f').	Test	LOR	1705A.1.17; ACI 318-19 Section 26.12.
<input checked="" type="checkbox"/> e. Batch plant inspection: Eliminated	See Notes	SI	Default of "Continuous" per 1705A.3.3. If approved by DSA, batch plant inspection may be reduced to Periodic; subject to requirements in Section 1705A.3.3.1, or eliminated per 1705A.3.3.2. See IR 17-13. (See Appendix (end of this form) for exemptions.)
<input checked="" type="checkbox"/> f. Welding of reinforcing steel.	Provide special inspection per STEEL, Category S/A(d) & (e) and/or S/A5(g) & (h) below.		

C2. PRESTRESSED / POST-TENSIONED CONCRETE (IN ADDITION TO SECTION C1):

Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/> a. Sample and test prestressing tendons and anchorages.	Test	LOR	1705A.3.4, 1705A.3
<input checked="" type="checkbox"/> b. Inspect placement of prestressing tendons.	Periodic	SI	1705A.3.4, Table 1705A.3 Items 1 & 9.

DIVISION OF THE STATE ARCHITECT
DGS DSA 103-22 (Revised 12/01/2022)

DEPARTMENT OF GENERAL SERVICES
Page 1 of 17

STATE OF CALIFORNIA

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINUM), 2022 CBC

Table 1705A.2, Table 1705A.2.1: AISC 360-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014: AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

Application Number: 04-121917

DSA File Number: 04-121917

School Name: PC FABRIC SHADE STRUCTURES

Increment Number: 2023-02-15 15:23:09

School District: USA SHADE AND FABRIC STRUCTURES

Date Created: 2023-02-15 15:23:09

S/A3. WELDING:

Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/> a. Verify weld filler material identification markings per AWS designation listed on the DSA-approved documents and the WPS.	Periodic	SI	1705A.2.5, Table 1705A.2.1 Items 4 & 5; AWS D1.1 and AWS D1.8 for structural steel; AWS D1.2 for Aluminum; AWS D1.3 for cold-formed and the WPS.
<input checked="" type="checkbox"/> b. Verify weld filler material manufacturer's certificate of compliance.	Periodic	SI	DSA IR 17-3.
<input checked="" type="checkbox"/> c. Verify WPS, welder qualifications and equipment.	Periodic	SI	DSA IR 17-3.

S/A4. SHOP WELDING (IN ADDITION TO SECTION S/A3):

Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/> a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds < 5/16", plug and slot welds.	Continuous	SI	Table 1705A.2.1 Items 5a.1, 4; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
<input checked="" type="checkbox"/> b. Inspect single-pass fillet welds < 5/16", floor and roof deck welds.	Periodic	SI	1705A.2.2, Table 1705A.2.1 Items 5a.5 & 5a.6; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
<input checked="" type="checkbox"/> c. Inspect welding of stairs and railing systems.	Periodic	SI	1705A.2.1: AISC 360-16 (and AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3.
<input checked="" type="checkbox"/> d. Verification of reinforcing steel weldability other than ASTM A706.	Periodic	SI	1705A.3.1, AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.
<input checked="" type="checkbox"/> e. Inspect welding of reinforcing steel.	Continuous	SI	Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8; AWS D1.4; DSA IR 17-3.

DIVISION OF THE STATE ARCHITECT
DGS DSA 103-22 (Revised 12/01/2022)

DEPARTMENT OF GENERAL SERVICES
Page 9 of 17

STATE OF CALIFORNIA

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINUM), 2022 CBC

Table 1705A.2, Table 1705A.2.1: AISC 360-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014: AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

Application Number: 04-121917

DSA File Number: 04-121917

School Name: PC FABRIC SHADE STRUCTURES

Increment Number: 2023-02-15 15:23:09

School District: USA SHADE AND FABRIC STRUCTURES

Date Created: 2023-02-15 15:23:09

Test or Special Inspection

Type

Performed By

Code References and Notes

☒ c. Storage rack anchorage installation.

Periodic

SI

ANSI/MH16, Section 7.3.2; Table 1705A.3.1

☒ d. Completed storage rack system to indicate compliance with the approved construction documents.

Periodic

SI*

Table 1705A.13.7: * May be performed by the project inspector when specifically approved by DSA.

S/A11. Other Steel

Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/> a.			

DIVISION OF THE STATE ARCHITECT
DGS DSA 103-22 (Revised 12/01/2022)

DEPARTMENT OF GENERAL SERVICES
Page 13 of 17

STATE OF CALIFORNIA

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC

Table 1705A.6, Table 1705A.7, Table 1705A.8

Application Number: 04-121917

DSA File Number: 04-121917

School Name: PC FABRIC SHADE STRUCTURES

Increment Number: 2023-02-15 15:23:09

School District: USA SHADE AND FABRIC STRUCTURES

Date Created: 2023-02-15 15:23:09

Geotechnical Reports: Project does NOT have and does NOT require a geotechnical report

ST. GENERAL:	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/> 1. Test or Special Inspection			
<input checked="" type="checkbox"/> 2. Test or Special Inspection	See Notes	PI	Refer to specific items identified in the Appendix listing exemptions for limitations. Placement of controlled fill exceeding 12' depth under foundations is not permitted without a geotechnical report.
<input checked="" type="checkbox"/> 3. Test or Special Inspection	See Notes	PI	Refer to specific items identified in the Appendix listing exemptions for limitations. Placement of controlled fill exceeding 12' depth under foundations is not permitted without a geotechnical report.

S2. SOIL COMPACTION AND FILL:

Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/> a. Verify use of proper materials, densities and inspect lift thicknesses, placement and compaction during placement of fill.	Continuous	LOR*	* Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations.
<input checked="" type="checkbox"/> b. Compaction testing	Test	LOR*	* Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations.

S3. DRIVEN DEEP FOUNDATIONS (PILES):

Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/> a. Verify pile materials, sizes and lengths comply with the requirements.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
<input checked="" type="checkbox"/> b. Determine capacities of test piles and conduct additional load tests as required.	Test	LOR*	* Under the supervision of the geotechnical engineer.

DIVISION OF THE STATE ARCHITECT
DGS DSA 103-22 (Revised 12/01/2022)

DEPARTMENT OF GENERAL SERVICES
Page 2 of 17

STATE OF CALIFORNIA

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (CONCRETE), 2022 CBC

Table 1705A.3: ACI 318-19 Sections 26.12 & 26.13

Application Number: 04-121917

DSA File Number: 04-121917

School Name: PC FABRIC SHADE STRUCTURES

Increment Number: 2023-02-15 15:23:09

School District: USA SHADE AND FABRIC STRUCTURES

Date Created: 2023-02-15 15:23:09

Test or Special Inspection

Type

Performed By

Code References and Notes

☒ a. Verify that concrete strength prior to stressing of post-tensioning tendons. Periodic | SI | Table 1705A.3 Item 13. Special Inspector to verify specified concrete strength test prior to stressing. |

☒ b. Inspect application of post-tensioning or prestressing forces and grouting of bonded prestressing tendons. Continuous | SI | 1705A.3.4, Table 1705A.3 Item 9; ACI 318-14 Section 26.13 |

C3. PRECAST CONCRETE (IN ADDITION TO SECTION C1):

Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/> a. Inspect fabrication of precast concrete members.	Continuous	SI	ACI 318-19 Section 26.13.
<input checked="" type="checkbox"/> b. Inspect erection of precast concrete members.	Periodic	SI*	

 Table 1705A.3 Item 10. * May be performed by PI when specifically approved by DSA. || ☒ c. For precast concrete diaphragm connections or reinforcement at joints classified as moderate or high deformability elements (MDE or HDE) in structures assigned to Seismic Design Category D, E or F, inspect such connections and reinforcement in the field for: 1. Installation of the embedded parts. 2. Completion of the continuity of reinforcement across joints. 3. Completion of connections in the field. | Continuous | SI | Table 1705A.3: ACI 318-19 Section 26.13.3; ACI 550.5 |
| ☒ d. Inspect installation tolerances of precast concrete diaphragm connections for compliance with ACI 550.5. | Periodic | SI | Table 1705A.3: ACI 318-19 Section 26.13.3; ACI 550.5 |

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINUM), 2022 CBC

Table 1705A.2, Table 1705A.2.1: AISC 360-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014: AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

Application Number: 04-121917

DSA File Number: 04-121917

School Name: PC FABRIC SHADE STRUCTURES

Increment Number: 2023-02-15 15:23:09

School District: USA SHADE AND FABRIC STRUCTURES

Date Created: 2023-02-15 15:23:09

Test or Special Inspection

Type

Performed By

Code References and Notes

☒ a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds < 5/16", plug and slot welds. Continuous | SI | Table 1705A.2.1 Items 5a.1, 4; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3. |

☒ b. Inspect single-pass fillet welds < 5/16". Periodic | SI | Table 1705A.2.1 Item 5a.5; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3. |

☒ c. Inspect end-welded studs (ASTM A-108) installation (including bend test). Periodic | SI | 221A.2.2; AISC 360-16 (and AISC 341-16 as applicable); AWS D1.1; DSA IR 17-3. |

☒ d. Inspect floor and roof deck welds. Periodic | SI | 1705A.2.2, Table 1705A.2.1 Item 5a.6; AISC 360-16 (and AISC 341-16 as applicable); AWS D1.3; DSA IR 17-3. |

☒ e. Inspect welding of structural cold-formed steel. Periodic | SI* |

 1705A.2.5; AWS D1.3; DSA IR 17-3. The quality control provisions of AISI S240-20 Chapter D shall also apply. * May be performed by the project inspector when specifically approved by DSA. |

☒ f. Inspect welding of stairs and railing systems. Periodic | SI* |

 1705A.2.1: AISC 360-16 (and AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3. * May be performed by the project inspector when specifically approved by DSA. |☒ g. Verification of reinforcing steel weldability. Periodic | SI | 1705A.3.1, AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates. |☒ h. Inspect welding of reinforcing steel. Continuous | SI | Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8; AWS D1.4; DSA IR 17-3. |

GENERAL DSA-103 NOTES:

- THE SAMPLE DSA-103 FORM PROVIDED ON THIS SHEET IS FOR ILLUSTRATIVE PURPOSES ONLY TO ASSIST IN THE COMPLETION OF SPECIFIC DSA-103 FORMS FOR FUTURE PROJECTS.
- A CURRENT DSA-103 FORM IS TO BE COMPLETED FOR EACH APPLICATION THAT THIS P.C. DOCUMENT IS BEING INCORPORATED INTO AND ALL SAMPLE DSA-103 SHEETS ARE TO BE CROSSED OUT ON THIS SHEET

ADDITIONAL TESTING AND INSPECTION NOTES:

- THE PROJECT INSPECTOR AND TESTING AGENCY SHALL BE EMPLOYED BY THE SCHOOL DISTRICT AND APPROVED BY DSA AND THE ARCHITECT OF RECORD.
- A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-542, PART 1, TITLE 24, CCR.
- THE SITE PROJECT INSPECTOR SHALL BE CLASS 2.
- A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TEST AND INSPECTIONS FOR THE PROJECT.
- THE COSTS OF THE PROJECT INSPECTOR AND TESTING AGENCY SHALL BE BORN BY THE SCHOOL DISTRICT.
- COPIES OF THE VERIFIED REPORTS SHALL BE SENT TO DSA, THE ARCHITECT, THE SCHOOL DISTRICT, THE CONTRACTOR, AND THE PROJECT INSPECTOR.
- THE IN-PLANT INSPECTOR SHALL BE A WELDING SPECIAL INSPECTOR FOR MATERIAL VERIFICATION AND WELDING.
- PER 2022 CBC, SECTION 1705A.3.3, BATCH PLANT INSPECTION MAY BE WAIVED WHEN THE FOLLOWING REQUIREMENTS ARE MET:
 - A LICENSED WEGHMASTER SHALL POSITIVELY IDENTIFY QUANTITY OF MATERIALS AND CERTIFY EACH LOAD BY A BATCH TICKET.
 - BATCH TICKETS, INCLUDING MATERIAL QUANTITIES AND WEIGHTS SHALL ACCOMPANY THE LOAD. SHALL BE TRANSMITTED TO THE INSPECTOR OF RECORD BY THE TRUCK DRIVER WITH LOAD IDENTIFIED THEREON. THE LOAD SHALL NOT BE PLACED WITHOUT A BATCH TICKET IDENTIFYING THE MIX. THE INSPECTOR OF RECORD SHALL KEEP A DAILY RECORD OF PLACEMENTS, IDENTIFYING EACH TRUCK, ITS LOAD, TIME OF RECEIPT AT THE JOBSITE, AND APPROXIMATE LOCATION OF DEPOSIT IN THE STRUCTURE AND SHALL MAINTAIN A COPY OF THE DAILY RECORD AS REQUIRED BY THE ENFORCING AGENCY.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC

Table 1705A.6, Table 1705A.7, Table 1705A.8

Application Number: 04-121917

DSA File Number: 04-121917

School Name: PC FABRIC SHADE STRUCTURES

Increment Number: 2023-02-15 15:23:09

School District: USA SHADE AND FABRIC STRUCTURES

Date Created: 2023-02-15 15:23:09

Test or Special Inspection

Type

Performed By

Code References and Notes

☒ c. Inspect driving operations and maintain complete and accurate records for each pile. Continuous | GE* |

 * By geotechnical engineer or his or her qualified representative. |

☒ d. Verify locations of piles and their plumbness, confirm type and size of hammer, record number of blows per foot of penetration, determine required penetrations to achieve design capacity, record tip and butt elevations and record any pile damage. Continuous | GE* |

 * By geotechnical engineer or his or her qualified representative. |☒ e. Steel piles. Provide tests and inspections per STEEL section below. | | |☒ f. Concrete piles and concrete filled piles. Provide tests and inspections per CONCRETE section below. | | |☒ g. For concrete piles, perform additional inspections as determined by the registered design professional in responsible charge. - | - | * As defined on drawings or specifications. |

S4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS):

Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/> a. Inspect drilling operations and maintain complete and accurate records for each pier.	Continuous	PI	Continuous inspection to be provided by project inspector. Refer to specific items identified in the Appendix listing exemptions for limitations.
<input checked="" type="checkbox"/> b. Verify pier locations, diameters, plumbness and lengths/Record concrete or grout volumes.	Continuous	PI	Continuous inspection to be provided by project inspector. Refer to specific items identified in the Appendix listing exemptions for limitations.
<input checked="" type="checkbox"/> c. Concrete piers.	Provide tests and inspections per CONCRETE section below.		

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (CONCRETE), 2022 CBC

Table 1705A.3: ACI 318-19 Sections 26.12 & 26.13

Application Number: 04-121917

DSA File Number: 04-121917

School Name: PC FABRIC SHADE STRUCTURES

Increment Number: 2023-02-15 15:23:09

School District: USA SHADE AND FABRIC STRUCTURES

Date Created: 2023-02-15 15:23:09

C4. SHOTCRETE (IN ADDITION TO SECTION C1):

Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/> a. Inspect shotcrete placement for proper application techniques.	Continuous	SI	1705A.3.9, Table 1705A.3 Item 7, 1908A.1, 1908A.2, 1908A.3. See ACI 506.2-13 Section 3.4, ACI 506R-16.
<input checked="" type="checkbox"/> b. Sample and test shotcrete (f').	Test	LOR	1908A.2, 1705A.3.4

C5. POST-INSTALLED ANCHORS:

Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/> a. Inspect installation of post-installed anchors.	See Notes	SI*	

 1617A.1.19, Table 1705A.3 Item 4a (Continuous) & 4b (Periodic), 1705A.3.8 (See Appendix (end of this form) for exemptions). ACI 318-14 Sections 17.8 & 26.13. * May be performed by the project inspector when specifically approved by DSA. || ☒ b. Test post-installed anchors. | Test | LOR | 1705A.3.4, Table 1705A.3 Item 9; ACI 318-14 Section 26.13 |

C6. OTHER CONCRETE:

Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/> a.			

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINUM), 2022 CBC

Table 1705A.2, Table 1705A.2.1: AISC 360-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014: AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

Application Number: 04-121917

DSA File Number: 04-121917

School Name: PC FABRIC SHADE STRUCTURES

Increment Number: 2023-02-15 15:23:09

School District: USA SHADE AND FABRIC STRUCTURES

Date Created: 2023-02-15 15:23:09

Test or Special Inspection

Type

Performed By

Code References and Notes

☒ a. Ultrasonic. Test | LOR | 1705A.2.1, 1705A.2.5; AISC 341-16 J6.2, AISC 360-16 NS.5; AWS D1.1, AWS D1.8; DSA IR 17-2. |

☒ b. Magnetic Particle Test | LOR | 1705A.2.1, 1705A.2.5; AISC 341-16 J6.2, AISC 360-16 NS.5; AWS D1.1, AWS D1.8; DSA IR 17-2. |

☒ c. Test | LOR | |

S/A7. STEEL JOISTS AND TRUSSES:

Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/> a. Verify size, type and grade for all chord and web members as well as connectors and weld filler material; verify joist profile, dimensions and camber (if applicable); verify all weld locations, lengths and profiles; mark or tag each joint.	Continuous	SI	1705A.2.3, Table 1705A.2.3: AWS D1.1; DSA IR 22-3 for steel joists only; 1705A.2.4; AWS D1.3 for cold-formed steel trusses.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC

Table 1705A.6, Table 1705A.7, Table 1705A.8

Application Number: 04-121917

DSA File Number: 04-121917

School Name: PC FABRIC SHADE STRUCTURES

Increment Number: 2023-02-15 15:23:09

School District: USA SHADE AND FABRIC STRUCTURES

Date Created: 2023-02-15 15:23:09

Test or Special Inspection

Type

Performed By

Code References and Notes

☒ 1. Test or Special Inspection | | |

☒ 2. Test or Special Inspection Continuous | GE* |

 * By geotechnical engineer or his or her qualified representative. (See Section S2 above). |

☒ 3. Test or Special Inspection Continuous | GE* |

 * By geotechnical engineer or his or her qualified representative. (See Section S2 above). |☒ 4. Test or Special Inspection Continuous | GE* |☒ 5. Test or Special Inspection Continuous | GE* |☒ 6. Test or Special Inspection Continuous | GE* |☒ 7. Test or Special Inspection Continuous | GE* |☒ 8. Test or Special Inspection Continuous | GE* |☒ 9. Test or Special Inspection Continuous | GE* |☒ 10. Test or Special Inspection Continuous | GE* |☒ 11. Test or Special Inspection Continuous | GE* |☒ 12. Test or Special Inspection Continuous | GE* |☒ 13. Test or Special Inspection Continuous | GE* |☒ 14. Test or Special Inspection Continuous | GE* |☒ 15. Test or Special Inspection Continuous | GE* |☒ 16. Test or Special Inspection Continuous | GE* |☒ 17. Test or Special Inspection Continuous | GE* |☒ 18. Test or Special Inspection Continuous | GE* |☒ 19. Test or Special Inspection Continuous | GE* |☒ 20. Test or Special Inspection Continuous | GE* |☒ 21. Test or Special Inspection Continuous | GE* |☒ 22. Test or Special Inspection Continuous | GE* |☒ 23. Test or Special Inspection Continuous | GE* |☒ 24. Test or Special Inspection Continuous | GE* |☒ 25. Test or Special Inspection Continuous | GE* |☒



190/F5 Fire rated specifications

Standard range Revision 0 28-Oct-12

Colour	Shade %	UV Block %	Average GSM	Average Warp break strength kgs	Average Elongation %	Average Weft break strength kgs	Average Elongation %	Average Burst Kpa	Average Burst to Mass ratio
Desert Sand	80	92	185	50	40	72	73	156	0.84
Blue	80	85	185	50	40	72	73	156	0.84
Brown	85		185	50	40	72	73	156	0.84
Green	80	85	185	50	40	72	73	156	0.84
Red	80	85	185	50	40	72	73	156	0.84
Silver	80	81	185	50	40	72	73	156	0.84
Terracotta	75	82	185	50	40	72	73	156	0.84
Yellow	80	89	185	50	40	72	73	156	0.84
				110 LB		159 LB		3258 PSF	

CONVERSION TO IMPERIAL UNITS:
185 GSM = .0378 psf
50 KGS = 110 Lb
72 KGS = 159 Lb
156 Kpa = 3258 psf

Notes: - 190/F5 conforms to The California State Fire Marshal Title 19 Test for Small scale Fabrics
- Tear tests are done using a 50mm wide strip and a cross head speed of 500mm/min
- This report has been compiled using the mean results from all tests conducted on the given sample by our Quality Control Laboratory. the information provided is considered to be a good reflection of the relevant properties of the fabric tested. These results must only be used as an indication of the quality and characteristics of the fabric tested. Company cannot be held responsible or liable in any way whatsoever should this information differ to that of a registered testing institution.

Deon Joubert
General Manager - Multiknit (Pty) Ltd

Tommy Rogers
Managing Director - Multiknit (Pty) Ltd



FLAME RETARDANT

Fabric Registration

LICENSE NUMBER: F-052001

COLOURSHADE 190/F5

Product Marketed by:

MULTIKNIT (PTY) LTD
BOX 798 WHITE RIVER 1240
MPUMALANGA SOUTH AFRICA

Issue Date : 05/08/2023
Expiration Date : 06/30/2024

This product meets the minimum requirements of flame resistance established by the California State Fire Marshal for products identified in Section 13115, California Health and Safety Code. The scope of the approved use of this product is provided in the current edition of the CALIFORNIA APPROVED LIST OF FLAME RETARDANT CHEMICALS AND FABRICS, GENERAL AND LIMITED APPLICATIONS CONCERNS published by the California State Fire Marshal.

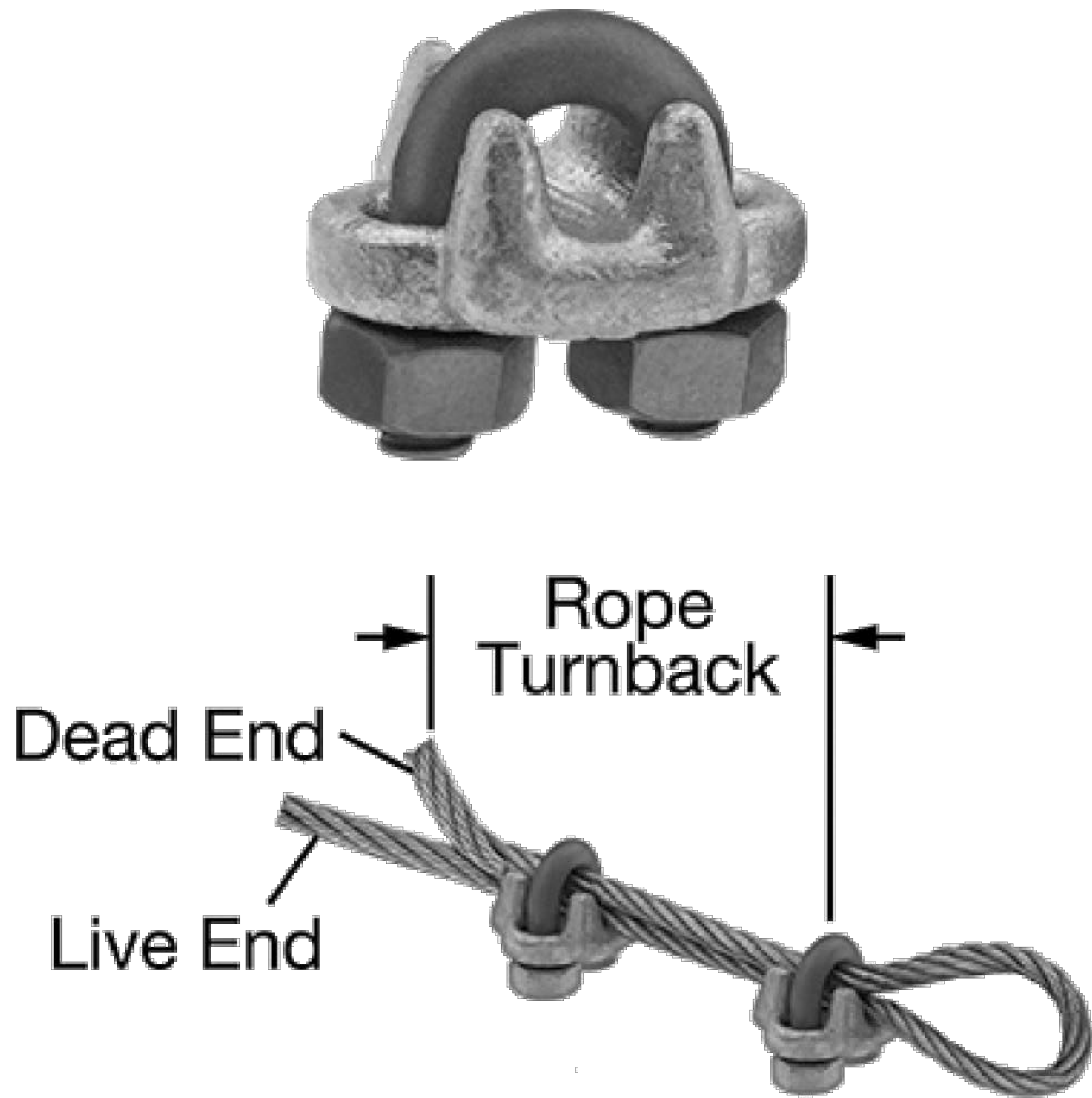
Issued By Cortney Walker
Fire Engineering License Manager
Fire Engineering & Investigations Division

Reviewed and Approved By Patricia Setter
Deputy State Fire Marshal III
Fire Engineering & Investigations Division

OFFICE OF THE STATE FIRE MARSHAL

Please visit calfire.gov/motus.org for more information on Licensing and Permitting with CAL FIRE

Page 1 of 1



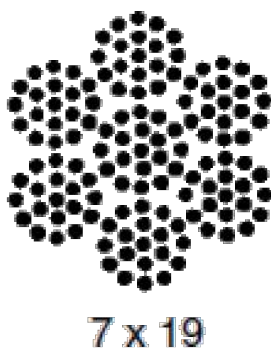
FORGED WIRE ROPE CLAMP

FITTING TYPE ROPE CLAMP
FABRICATION: FORGED
MATERIAL: GALVANIZED STEEL
FOR WIRE ROPE DIAMETER 3/8"
NUMBER OF CLAMPS REQUIRED: 2
ROPE TURNBACK: 6 1/2"
FOR WIRE ROPE CONSTRUCTION 7 x 19
ATTACHMENT TYPE: LOOP
CLAMP:WIDTH 2", HEIGHT 1 15/16", THICKNESS 1 11/16"
REQUIRED INSTALLATION TOOL TORQUE WRENCH
REQUIRED TORQUE 45 FT.-LBS.
CAPACITY 80% OF THE ROPE'S CAPACITY
SPECIFICATIONS MET ASME B30.26, FED. SPEC. FF-C-450

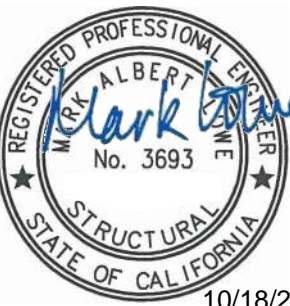
Aircraft Cable

Preformed, made in accordance with commercial specifications military and federal specification rope available.

Carbon Steel (Aircraft Cable) - Galvanized cable has the highest strength and greatest fatigue life of the materials offered. It has good to fair corrosion resistance in rural to industrial atmosphere environments. This material is most widely used for small diameter cables. Tin over galvanized cable offers greater corrosion resistance and reduced friction over pulleys.



7 x 19		Galvanized Min. Breaking Strengths (lbs)
Dia. (In)	Approx. Wt 1000 Ft/lbs	
3/32	17.	1,000
1/8	29.	2,000
5/32	45.	2,800
3/16	65.	4,200
7/32	86.	5,600
1/4	110.	7,000
9/32	139.	8,000
5/16	173.	9,800
3/8	243.	14,400



THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF USA SHADE AND FABRIC STRUCTURES AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.



CORPORATE HEADQUARTERS
2580 ESTERS BLVD. SUITE 100
DFW AIRPORT, TX, 75261
800-966-5005

CERTIFICATIONS:

IAS CERTIFICATION No: FA-428
CLARK COUNTY MANUFACTURER
CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:

San Rafael City Schools

PROJECT NAME:

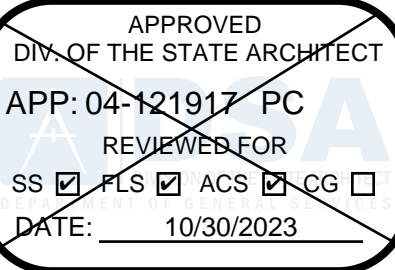
Coleman Elementary School

LOCATION:

800 Belle Avenue
San Rafael, CA 94901

MODEL NUMBER:

DSA30125-22



STRUCTURE TYPE:

TRIANGLE

DSA

SIZE:

MAXIMUM

25' x 25' x 15'e MAX.

SCALE : NONE

DRAWING SIZE:

D

PRE-CHECK (PC) DOCUMENT

Code : 2022 CBC
A separate project application for construction is required.

Eng. By : HH 12/01/22

Design By : OS 12/01/22

Approved By : MB 12/01/22

DRAWING DESCRIPTION:

SPECIFICATIONS

DWG.

DSA30125-22

SHEET

26.2-2000

REV.

NC

DESIGN VALUES	
DESCRIPTION	DESIGN VALUES ¹
DEAD AND LIVE LOADS	
ROOF LIVE LOAD	20 PSF
ROOF DEAD LOAD (SUPERIMPOSED ON FRAME) ²	LOAD SCENARIO= (1, 2) DL = (3.5 PSF, 2.0 PSF)
ALLOWABLE SOIL PRESSURE ^{3, 5}	
SPREAD PAD	
VERTICAL BEARING: DL + Lr + SEISMIC (CONCRETE FOOTING)	1500 PSF
LATERAL COHESION: DL + Lr + SEISMIC (CONCRETE FOOTING)	130 PSF
DRILLED PIER	
SKIN FRICTION DOWN : DL + Lr + SEISMIC (CONCRETE FOOTING) PER 1810A.3.3.1.4	167 PSF
SKIN FRICTION (UPLIFT): DL + Lr SEISMIC (CONCRETE FOOTING) PER 1810A.3.31.5	83 PSF
LATERAL BEARING: DL + Lr + SEISMIC (CONCRETE FOOTING) PER 1810A.3.3.2	100 PSF/FT
ROOF SNOW LOAD ⁴	
GROUND SNOW LOAD, Pg	10 PSF
RISK CATEGORY	II
ROOF SNOW LOAD: [] FLAT, Pf OR [] LOW SLOPE, Pm OR [X] SLOPED, Ps	10 PSF
SNOW ROOF SLOPE FACTOR, Cs	1
SNOW EXPOSURE FACTOR, Ce	1.2
SNOW LOAD IMPORTANCE FACTOR, Is	1.0
THERMAL FACTOR, Ct	1.2
DRIFT SURCHARGE LOAD, Pd	0 PSF
DISTANCE FROM ADJACENT STRUCTURE, Pg = 0 PSF	4 IN
DISTANCE FROM ADJACENT STRUCTURE, Pg > 0 PSF	20 FT
ICE LOAD	0 PSF
FLOOD DESIGN	
FLOOD HAZARD AREA	NO
WIND DESIGN ⁴	
BASIC WIND SPEED (3 SECOND GUST), Vult	110 MPH
EXPOSURE CATEGORY	C
TOPOGRAPHIC FACTOR, Kzt (1 MINIMUM)	1
INTERNAL PRESSURE COEFFICIENT, GCpi (IF APPLICABLE)	0.0
CLEAR WIND FLOW	YES
OBSTRUCTED WIND FLOW	YES
SEISMIC DESIGN ⁴	
LATERAL FORCE-RESISTING SYSTEM	STEEL ORDINARY CANTILEVER COLUMN SYSTEM
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE PROCEDURE
SEISMIC DESIGN CATEGORY (SDC)	E
SEISMIC IMPORTANCE FACTOR, Ie	1.0
DESIGN BASE SHEAR, V	Cs x W
SEISMIC RESPONSE COEFFICIENT, Cs	LOAD SCENARIO = (1, 2) Cs = (0.90, 1.32)
RESPONSE MODIFICATION FACTOR, R	1.25
SITE CLASS ⁷	E
REDUNDANCY FACTOR, p	1.3
MAPPED SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD, Ss - USED TO DETERMINE Cs	LOAD SCENARIO = (1, 2) Ss = (1.406, 2.063)
SHORT-PERIOD SITE COEFFICIENT, Fa	1.2
DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD, Sds - USED TO DETERMINE Cs	LOAD SCENARIO = (1, 2) Sds (MAX) = (1.125, 1.650)
MAPPED SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD, S1	LOAD SCENARIO = (1, 2) S1 = (0.844, 1.07)
LONG-PERIOD SITE COEFFICIENT, Fv	2.0
DESIGN SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD, Sd1	LOAD SCENARIO = (1, 2) Sd1 = (1.125, 1.427)
HORIZONTAL OR VERTICAL IRREGULARITIES TYPE(S)	NONE

1. IF SITE-SPECIFIC DESIGN CRITERIA ARE OUTSIDE THE LIMITS OF THESE PC DRAWINGS, CONTACT POLYGON ENGINEERING TO SEE IF AN ENGINEERING LETTER, SUPPLEMENTAL DRAWINGS, AND/OR CALCULATIONS COULD BE SUBMITTED FOR A SITE-SPECIFIC SOLUTION. ANY SITE-SPECIFIC DEVIATION FROM THIS PC MAY NOT BE SUBMITTING TO DSA AS AN OVER-THE-COUNTER.
2. STRUCTURE IS NOT DESIGNED TO SUPPORT SOLAR PANELS. STRUCTURE IS NOT DESIGNED TO SUPPORT SPRINKLER SYSTEMS IN LOAD SCENARIO 2 REGIONS.
3. GEOHAZARD REPORTS ARE REQUIRED IF THE AREA COVERED UNDER THE ROOF EXCEEDS 4000 SQ FT OR IS LOCATED WITHIN STATE OR LOCAL GEOLOGIC HAZARD ZONE. VERIFY SUBMITAL AND APPROVAL OF A GEOHAZARD REPORT BY CGS PRIOR TO DSA SITE APPLICATION.
4. STRUCTURAL SEPARATION BETWEEN ADJACENT STRUCTURES: RAM 20= 5.0", RAM 30= 3.0"
STRUCTURAL SEPARATION BETWEEN EXISTING STRUCTURES: RAM 20= 5.5", RAM 30= 4.0"
5. WHEN PLACING MULTIPLE CANOPIES WITH PIER FOOTINGS ADJACENT TO ONE ANOTHER, THE DESIGN MAY REQUIRE AN ANALYSIS OF GROUP EFFECTS ON THE FOUNDATIONS. THE MINIMUM CLEARANCE BETWEEN CENTER OF PIERS IS EIGHT TIMES PIER DIAMETER WITHOUT AN ACCOMPANYING ENGINEERING LETTER
6. SITE APPLICATION DESIGN PROFESSIONAL AND DSA REVIEWER SHALL VERIFY THE STRUCTURE TO BE LOCATED AT LEAST 20 FEET FROM ANY HIGHER ADJACENT STRUCTURE IF GROUND SNOW IS GREATER THAN ZERO.
7. DESIGN COMPLIES WITH THE CONDITIONS OF EXCEPTION 1 OF ASCE 7-16 SECTION 11.4.8, ITEM 2.
8. APPROVED FIRE APPARATUS ACCESS ROADS SHALL EXTEND TO WITHIN 150 FEET OF ALL PORTIONS OF THE PERIMETER OF THE STRUCTURE PER CFC 503.1.1.

ARCHITECTURAL REQUIREMENTS:

DESCRIPTION	DESIGN VALUES
TYPE OF CONSTRUCTION	II B
NUMBER OF STORIES	1
FIRE SPRINKLER SYSTEM	NOT BY POLYGON

RELATED BUILDING CODES AND STANDARDS:

TITLE 24 CODES:

2022 California Administrative Code (CAC).....(Part 1, Title 24, CCR)
2022 California Building Code (CBC), Volumes 1 and 2.....(Part 2, Title 24, CCR)
2021 International Building Code with 2022 California amendments)
2022 California Electrical Code (CEC).....(Part 3, Title 24, CCR)
2020 National Electrical Code with 2022 California amendments)
2022 California Mechanical Code (CMC).....(Part 4, Title 24, CCR)
2021 Uniform Mechanical Code with 2022 California amendments)
2022 California Plumbing Code (CPC).....(Part 5, Title 24, CCR)
2021 Uniform Plumbing Code with 2022 California amendments)
2022 California Energy Code.....(Part 6, Title 24, CCR)
2022 California Fire Code (CFC).....(Part 9, Title 24, CCR)
2021 International Fire Code with 2022 California Amendments)
2022 California Existing Building Code (CEBC).....(Part 10, Title 24, CCR)
2022 California Green Building Standards Code.....(Part 11, Title 24, CCR)
2022 California Referenced Standards Code.....(Part 12, Title 24, CCR)
Title 19 CCR, Public Safety, State Marshal Regulations

NFPA 13 - 2016
NFPA 72 - 2016

REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS:

2022 CBC, CHAPTER 35
2022 CFC, CHAPTER 80

SCOPE OF WORK NARRATIVE:

THESE DRAWINGS ILLUSTRATE THE FABRICATION AND INSTALLATION REQUIREMENTS FOR A FREE-STANDING PREFABRICATED STEEL SHADE STRUCTURE. THE ENTIRE STRUCTURAL SYSTEM IS COMPRISED OF TUBULAR STEEL MEMBERS SUPPORTED ON CONCRETE FOUNDATION. THE FLEXIBILITY IN THE DESIGN HEREIN ALLOWS THIS STRUCTURE TO COMPLY WITH A WIDE VARIETY OF PROJECT SITES AND LOADING REQUIREMENTS.

INSTRUCTIONS FOR ARCHITECTS PLANNING TO SUBMIT THESE PRE-CHECKED DRAWINGS TO DSA:

STEP 1 PROJECT INFORMATION	
PROJECT NAME	COLEMAN ELEMENTARY KINDERGARTEN PLAY YARD AND PLAYGROUND MODERNIZATION
SCHOOL DISTRICT	SAN RAFAEL CITY SHOOLS
USE AND OCCUPANCY CLASSIFICATION	A2.1 (PROPOSED OCCUPANCY: A1, A2, A3, A4, A5, B, E)
OCCUPANT LOAD FACTOR	15 (15 SQFT/PERSON MAX, 5 SQFT/PERSON MIN FOR ANY A OCCUPANCY 20 SQFT/PERSON MAX FOR B OR E OCCUPANCY)
TOTAL ROOF AREA	1,320 (MAXIMUM 4500 SQFT FOR ANY A OCCUPANCY, 10,000 SQFT FOR B OCCUPANCY, AND 5000 SQFT FOR E OCCUPANCY)
NUMBER OF OCCUPANTS	88 (MAXIMUM 300 FOR ANY A OCCUPANCY, 500 FOR B OCCUPANCY, AND 250 FOR E OCCUPANCY)

STEP 2 DESIGN OPTIONS		
ROOF DECK	[x] MULTI-RIB [MR]	DEFAULT, WEIGHT 1.2 PSF
	[] STANDING SEAM [SS]	WEIGHT 1.8 PSF
GUTTERS	[] NO	DEFAULT
	[x] YES	SEE RAM7.0 FOR DETAILS
ELECTRICAL ACCESS	[x] NO	DEFAULT
	[] YES	SEE RAM7.1 FOR DETAILS
CLEAR HEIGHT	[x] 8'	DEFAULT
	[] _____ OTHER	10' MAX

STEP 3 SEISMIC ACCELERATION		
Ss	_____	1.5 (g)
S1	_____	0.6 (g)

STEP 4 SEISMIC REGIONS		
0.000 < Ss <= 1.406	S1 <= 0.844	[] WHITE 3.5 PSF MAX DEA LOAD
1.406 < Ss <= 2.063	S1 <= 1.070	[x] GREEN 2.0 PSF MAX DEAD LOAD

STEP 5 TOTAL ROOF DEAD LOAD		
ROOF DECK	_____ 1.2 PSF	SEE STEP 2 'ROOF DECK FOR WEIGHTS
COLLATERAL	_____ 0.0 PSF	LIGHTING , FIRE SUPPRESSION, ETC.
TOTAL	_____ 1.2 PSF	ADD 'ROOF DECK' AND 'COLLATERAL'

STEP 6 LOAD SCENARIO	
WHITE	TOTAL ROOF DEAD LAOD <= 3.5 PSF [] LOAD SCENARIO 1
GREEN	TOTAL ROOF DEAD LOAD < 2.0 PSF [x] LOAD SCENARIO 2

STEP 7 PC STRUCTURE		
ROOF WIDTH <= 20	[] RAM 20	
20 < ROOF WIDTH <= 30	[x] RAM 30	

STEP 8 STRUCTURE SIZE			
RAM 20		RAM 30	
ROOF WIDTH	[] 20'	DEFAULT	[x] 30'
	[] _____ OTHER 9' MIN; 20'		
	MAX		20'-6" MIN; 30' MAX
ROOF LENGTH	[] 44'	2 BAYS	[x] 44'
	[] 64'	3 BAYS	[] 64'
	[] 84'	4 BAYS	[] 84'
[] _____ OTHER		[] _____ OTHER	

STEP 9 FOUNDATION TYPE			
FOUNDATION TYPE	RAM 20		RAM 30
	[] SPREAD PAD	[] DRILLED PIER	[] SPREAD PAD [x] DRILLED PIER

STEP 10 FOUNDATION SUMMARY			
RAM 20		RAM 30	
[] LOAD SCENARIO 1 SPREAD PAD	[] LOAD SCENARIO 1 DRILLED PIER	[] LOAD SCENARIO 1 SPREAD PAD	[] LOAD SCENARIO 1 DRILLED PIER
[] LOAD SCENARIO 2 SPREAD PAD	[] LOAD SCENARIO 2 DRILLED PIER	[] LOAD SCENARIO 2 SPREAD PAD	[x] LOAD SCENARIO 2 DRILLED PIER

STEP 11 SHEET INDEX							
BASE FRAME				RAM 30 SHEET INDEX			
ROOF DECK		MR	SS	MR		SS	
FOUNDATION TYPE		SPREAD PAD	DRILLED PIER	SPREAD PAD	DRILLED PIER	SPREAD PAD	DRILLED PIER
SELECT ONE		[]	[]	[]	[]	[x]	[]
ORDER FORM	RAM1.0	RAM1.0	RAM1.0	RAM1.0	RAM1.0	RAM1.0	RAM1.0
NOTES AND SPECIAL INSPECTIONS	RAM1.1	RAM1.1	RAM1.1	RAM1.1	RAM1.1	RAM1.1	RAM1.1
FOUNDATION PLAN	RAM2.0	RAM2.1	RAM2.0	RAM2.1	RAM2.2	RAM2.2	RAM2.3
FRAMING PLAN	RAM3.0	RAM3.0	RAM3.0	RAM3.0	RAM3.1	RAM3.1	RAM3.1
FRAME CONNECTION DETAILS	RAM4.0	RAM4.0	RAM4.0	RAM4.0	RAM4.2	RAM4.2	RAM4.2
SECTION DETAILS	RAM4.1	RAM4.1	RAM4.1	RAM4.1	RAM4.3	RAM4.3	RAM4.3
ARCHITECTURAL VIEWS	RAM5.0	RAM5.0	RAM5.0	RAM5.0	RAM5.1	RAM5.1	RAM5.1
ROOF CONNECTION DETAILS	RAM6.0	RAM6.0	RAM6.1	RAM6.1	RAM6.0	RAM6.1	RAM6.1
MISC DESIGN OPTIONS	RAM7.0	RAM7.0	RAM7.0	RAM7.0	RAM7.0	RAM7.0	RAM7.0
ELETRICAL CUTOUTS	RAM7.1	RAM7.1	RAM7.1	RAM7.1	RAM7.1	RAM7.1	RAM7.1

STEP 12 MULTIPLE STRUCTURES		
MULTIPLE STRUCTURES	ROOF WIDTH X LENGTH	QTY

STEP 1: GENERAL PROJECT INFORMATION

- IDENTIFY PROJECT NAME AND SCHOOL DISTRICT
- IDENTIFY USE AND OCCUPANCY CLASSIFICATION
 - THE USE AND OCCUPANCY DETERMINE THE MAXIMUM SQUARE FOOTAGE OF THE STRUCTURE
 - THE MAXIMUM SQUARE FOOTAGE IS ALSO LIMITED BY THE NUMBER OF OCCUPANTS
- IDENTIFY THE OCCUPANT LOAD PER TABLE 1004.5 IN THE CBC
- IDENTIFY TOTAL ROOF AREA WHICH SHALL NOT EXCEED ALLOWABLE AREA PER TABLE 506.2 IN THE CBC.
- IDENTIFY EXPECTED NUMBER OF OCCUPANTS BASED ON THE ESTIMATED OCCUPANT LOAD
- TOTAL ROOF AREA DIVIDED BY OCCUPANT LOAD CAN DETERMINE NUMBER OF OCCUPANTS

STEP 2: DESIGN OPTIONS

- SELECT ROOF DECK FOR YOUR PROJECT
 - 'MR' REPRESENTS MCELROY METAL 'MULTI-RIB' ROOF DECK
 - 'SS' REPRESENTS MCELROY METAL 'MEDALLION-LOK' 16" STANDING SEAM ROOF DECK
- SELECT WHETHER GUTTERS AND DOWNSPOUTS FROM POLYGON IS NEEDED FOR YOUR PROJECT
- IF YES, THEN INCLUDE SHEET RAM7.0 IN THE DRAWING SET
- SELECT WHETHER ELECTRICAL CUTOUTS ARE NEEDED FOR YOUR PROJECT
 - SHEET RAM7.0 SHOWS ELECTRICAL CUTOUT SIZE AND LOCATION CUTOUTS IN COLUMNS
 - SHEET RAM7.1 HAS INSTRUCTIONS AND SHEET TO IDENTIFY WHICH COLUMNS
 - SHEET RAM7.1 MUST BE FILLED OUT IN THE SUBMITTAL SET APPROVED BY DSA
 - IF NOTHING IS FILLED IN ON RAM7.1, POLYGON WILL ASSUME CUTOUTS ARE ONLY IN COLUMN A1 (SEE 'FRAMING PLAN' FOR REFERENCE)
- SELECT CLEAR HEIGHT (SEE 'ARCHITECTURAL VIEWS' SHEET FOR REFERENCE)
- IF NOTHING IS SELECTED, POLYGON WILL ASSUME THE DEFAULT FOR EACH DESIGN OPTION

STEP 3: IDENTIFY THE Ss & S1 ACCELERATION (g) FOR YOUR PROJECT AND GEOTECHNICAL INFORMATION

- Ss & S1 VALUE DETERMINES THE REQUIRED SEISMIC DESIGN FORCES
- Ss & S1 VALUE DEPENDS ON PROJECT'S GEOGRAPHICAL LOCATION
 - FIND Ss & S1 VALUES FOR YOUR PROJECT IN THE SITE SPECIFIC GEOTECHNICAL REPORT
 - FIND Ss & S1 VALUES FOR YOUR PROJECT USING (https://asce7hazardtool.online/)
- THIS PC IS NOT APPROVED FOR Ss VALUES GREATER THAN 2.063 (CONTACT POLYGON FOR ADDITIONAL OPTIONS)

STEP 4: IDENTIFY THE SEISMIC REGION FOR YOUR PROJECT

- THE REGIONS ARE DEPENDANT ON THE Ss & S1 VALUE DETERMINED IN STEP 3
- THE SEISMIC REGION DICTATES THE MAXIMUM DEAD LOAD PERMITTED (SEE TABLE TO THE LEFT)

STEP 5: IDENTIFY THE ROOF DEAD LOAD FOR YOUR PROJECT

- THE ROOF DECK DEAD LOAD WILL ALWAYS BE INCLUDED
- THE COLLATERAL LOAD REPRESENTS ADDITIONAL LOAD THAT CAN BE SUPPORTED BY THE FRAME
- TOTAL ROOF DEAD LOAD MUST BE LESS THAN OR EQUAL TO THE MAX DEAD LOAD SHOWN IN STEP 4
- CUT SHEETS OF ANY BOARDS, BOXES AND EQUIPMENT TO BE MOUNTED ON THE STRUCTURE, INCLUDING WEIGHTS AND DIMENSIONS ARE REQUIRED

STEP 6: IDENTIFY THE LOAD SCENARIO

- REFERENCE THE STEP 4 COLOR AND SELECT THE APPLICABLE LOAD SCENARIO
- LOAD SCENARIOS HAVE NO IMPACT ON FRAME DESIGN OR COST, BUT DO AFFECT FOUNDATION SIZE

STEP 7: IDENTIFY PC STRUCTURE

- ROOF WIDTHS UP TO 20' WIDE USE THE "RAM 20"
- ROOF WIDTHS UP TO 30' WIDE USE THE "RAM 30"
- THE 20' AND 30' WIDTHS ARE SUGGESTED BECAUSE THEY ARE THE MOST ECONOMICAL
- MAXIMUM WIDTH IS 30'; (SEE 'ARCHITECTURAL VIEWS' SHEET FOR REFERENCE)

STEP 8: IDENTIFY SITE SPECIFIC ROOF WIDTH AND LENGTH

- DO NOT EXCEED THE TOTAL ROOF AREA FROM STEP 1 (ROOF WIDTH MULTIPLIED BY ROOF LENGTH)

STEP 9: FOUNDATION TYPE

- SELECT A FOUNDATION BASED THE DESIRED FOUNDATION TYPE
- SELECTION EITHER SPREAD PAD OR DRILLED PIER FOUNDATION PRIOR TO APPROVAL
- FOUNDATION TYPE IMPACTS CONSTRUCTION TIMING, SEQUENCE, COST, ETC.)
- FOUNDATION TYPE IMPACTS ANCHOR BOLT LENGTH (NOT PROVIDED BY POLYGON)
- REVIEW OF SITE-SPECIFIC SOILS REPORT TO EVALUATE APPLICABILITY OF FOUNDATION OPTIONS AVAILABLE

STEP 10: FOUNDATION SUMMARY

- USE THE SELECTIONS FROM STEP 6 AND STEP 9 TO SELECT THE APPROPRIATE FOUNDATION

STEP 11: SELECT APPLICABLE SHEET INDEX FOR YOUR PROJECT

- IDENTIFY THE APPLICABLE SHEET INDEX
- INCLUDE APPLICABLE SHEETS WITH YOUR DSA SUBMITTAL
- EXCLUDE 'MISC DESIGN OPTIONS' SHEET FOR PROJECTS WITHOUT ELECTRICAL CUTOUTS OR GUTTERS
- EXCLUDE 'ELECTRICAL CUTOUTS' SHEET FOR PROJECTS WITHOUT ELECTRICAL CUTOUTS

STEP 12: MULTIPLE STRUCTURES WITH THE SAME PC#

- FILL IN ROOF LENGTH AND WIDTH OF STRUCTURES AS WELL AS QUANTITY
- UNO ON THE POLYGON DRAWINGS. POLYGON WILL ASSUME ALL DESIGN CRITERIA FOR EACH STRUCTURE IS THE SAME
- CONTACT POLYGON FOR FURTHER INFORMATION

SHEET INDEX					
1	RAM1.0	ORDER FORM	11	RAM4.2	FRAME CONNECTION DETAILS - RAM 30
2	RAM1.1	NOTES AND SPECIAL INSPECTIONS	12	RAM4.3	SECTION DETAILS - RAM 30
3	RAM2.0	FOUNDATION PLAN SPREAD PAD - RAM 20	13	RAM5.0	ARCHITECTURAL VIEWS - RAM 20
4	RAM2.1	FOUNDATION PLAN DRILLED PIER - RAM 20	14	RAM5.1	ARCHITECTURAL VIEWS - RAM 30
5	RAM2.2	FOUNDATION PLAN SPREAD PAD - RAM 30	15	RAM6.0	ROOF CONNECTION DETAILS
6	RAM2.3	FOUNDATION PLAN DRILLED PIER - RAM 30	16	RAM6.1	ROOF CONNECTION DETAILS
7	RAM3.0	FRAMING PLAN - RAM 20	17	RAM7.0	MISC DESIGN OPTIONS
8	RAM3.1	FRAMING PLAN - RAM 30	18	RAM7.1	ELECTRICAL CUTOUTS
9	RAM4.0	FRAME CONNECTION DETAILS - RAM 20			
10	RAM4.1	SECTION DETAILS - RAM 20			
TOTAL SHEETS = 18					

ABBREVIATIONS:

ACI	AMERICAN CONCRETE INSTITUTE	MR	MULTI-RIB ROOF PANEL (MCELROY)
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	NTS	NOT TO SCALE
ASM	ASSEMBLY (INTERNAL REFERENCE)	NO	NUMBER
ASTM	AMERICAN SOCIETY FOR TESTING AND MATLS	OC	ON CENTER
AWS	AMERICAN WELDING SOCIETY	OSHA	OCCUPATIONAL HEALTH AND SAFETY ADM.
CBC	CALIFORNIA BUILDING CODE	PCF	POUNDS PER CUBIC FOOT
CJP	COMPLETE JOINT PENETRATION	PD	POLYGON DRAWING
CLR	CLEAR	PJ	PRETENSIONED JOINT
DEG	DEGREE	PLCS	PLACES
DIA	DIAMETER	PLT	PLATE
DIM	DIMENSION	PSF	POUNDS PER SQUARE FOOT
DSA	DIVISION OF THE STATE ARCHITECT	PSI	POUNDS PER SQUARE INCH
EQ	EQUAL	QTY	QUANTITY
FT	FEET	REF	REFERENCE
GA	GAGE	SS	SQUARE
IN	INCHES	SQ	STANDING SEAM ROOF PANEL (MCELROY)
KSI	KIPS PER SQUARE INCH	TYP	TYPICAL
MAX	MAXIMUM	UNO	UNLESS NOTED OTHERWISE
MIN	MINIMUM	USGS	U.S. GEOLOGICAL SURVEY
MISC	MISCELLANEOUS	W/	WITH
MPH	MILES PER HOUR		

SPECIFICATIONS

PART 1 - GENERAL

1.1 STRUCTURE DESCRIPTION

- A. STRUCTURE(S) BASED ON THE FOLLOWING PC DESIGN(S):
 - 1. HIP ROOF (RAM)

1.2 DESIGN REQUIREMENTS

- A. MEET THE DESIGN INTENT SHOWN ON THE PC DRAWINGS APPROVED FOR THIS PROJECT.
 - 1. DESIGN CRITERIA
 - 2. MEMBERS SIZES
 - 3. HIDDEN BOLTED CONNECTIONS BETWEEN STRUCTURAL MEMBERS
 - 4. COLUMN ANCHORAGE SHALL INCLUDE FOUR (4) BOLTS IN COMPLIANCE WITH OSHA 1926.755(1)(7)(T).
 - 5. NO FIELD WELDING PERMITTED
 - 6. NO FIELD PAINTING PERMITTED
 - 7. ROOF DIMENSIONS AND SLOPES
 - 8. EXPOSED STEEL ROOF FASTENERS (IF APPLICABLE) POWDER COATED BY MANUFACTURER
 - 9. ROOF DECK SPANS FROM PEAK TO EAVE AND PERMITS PROPER DRAINAGE WITHOUT DEBRIS BUILD-UP.

1.3 SUBMITTALS

- A. DRAWINGS AND CALCULATIONS SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE APPROPRIATE STATE.
- B. ONLY MANUFACTURERS THAT SUBMIT DRAWINGS AND CALCULATIONS PRIOR TO BID SHALL BE CONSIDERED.
- C. MANUFACTURER MUST BE ABLE TO SUBMIT APPROPRIATE LABORATORY TESTS FOR THE FOLLOWING:
 - 1. FRAME FINISH REQUIREMENTS LISTED IN PART 2 OF THIS SPECIFICATION.
 - 2. CERTIFIED MILL TEST REPORTS FOR STRUCTURAL STEEL (DESCRIBING THE CHEMICAL AND PHYSICAL PROPERTIES).
 - 3. CERTIFIED MILL TEST REPORTS FOR STRUCTURAL BOLTS.

1.4 TECHNICAL SUPPORT

- A. MANUFACTURER MUST HAVE IN-HOUSE ENGINEERING DEPARTMENT AND A PROFESSIONAL ENGINEER LICENSED IN THE APPROPRIATE STATE TO ANSWER TECHNICAL QUESTIONS.

1.5 QUALITY ASSURANCE

- A. GENERAL
 - 1. FABRICATION PROCEDURES SHALL COMPLY WITH APPLICABLE CODES AND LOCAL REGULATIONS.
 - 2. REQUIRED STRUCTURAL TESTS AND SPECIAL INSPECTIONS INCLUDED ON THE PROJECT DSA-103 FORM.
- B. MANUFACTURER QUALIFICATIONS
 - 1. MINIMUM (10) YEARS ENGINEERING AND FABRICATING PRE-ENGINEERED STRUCTURES
 - 2. MANUFACTURER OWNED AND OPERATED POWDER COAT PAINT FINISH SYSTEM
 - 3. ALL AWS CERTIFIED WELDERS
 - 4. FULL-TIME PROFESSIONAL ENGINEER ON STAFF LICENSED IN THE APPROPRIATE STATE
 - 5. FULL-TIME AWS CERTIFIED ASSOCIATE WELDING INSPECTOR ON STAFF
 - 6. FULL-TIME LEED AP ON STAFF
- C. MANUFACTURER CERTIFICATIONS
 - 1. PCI 4000 CERTIFICATION THROUGH POWDER COATING INSTITUTE (PCI)
 - 2. AISC CERTIFIED FABRICATOR

1.6 MANUFACTURER WARRANTY

- A. STRUCTURE MUST HAVE (10) YEAR LIMITED WARRANTY ON STEEL FRAME MEMBERS.
- B. STRUCTURE MUST HAVE (10) YEAR LIMITED WARRANTY ON PAINT FINISH.
- C. PASS THROUGH WARRANTY OF ROOFING MANUFACTURER SHALL BE PROVIDED UPON REQUEST.

PART 2 - PRODUCTS

2.1 MANUFACTURER

- A. ACCEPTABLE MANUFACTURERS
 - 1. POLYGON, A DIVISION OF PORTERCORP.
 - A. 4240 N 136TH AVE., HOLLAND, MI 49424; (616) 399-1963; WWW.POLYGON.COM
 - 1. FOR POLYGON STRUCTURES IN NORTHERN CALIFORNIA, THE LOCAL REPRESENTATIVE IS ALL ABOUT

3. GENERAL NOTES AND TYPICAL DETAILS SHALL APPLY TO ALL PARTS OF THE JOB EXCEPT WHERE THEY MAY CONFLICT WITH DETAILS AND NOTES ON OTHER SHEETS. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO THOSE SPECIFICALLY INDICATED, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED SUBJECT TO REVIEW BY THE STRUCTURAL ENGINEER FOR THIS PROJECT.
2. WORK SHALL CONFORM TO THE REQUIREMENTS, AS AMENDED TO DATE, OF THE LATEST ADOPTED EDITION OF THE CBC, C.A.C. TITLE 24, AND ALL OTHER LOCAL, STATE AND FEDERAL REGULATIONS.
3. OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER FOR THIS PROJECT PRIOR TO PROCEEDING WITH ANY WORK INVOLVED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND SHALL CHECK ALL DIMENSIONS. AS REQUIRED, THE CONTRACTOR SHALL CALL TO THE ATTENTION OF THE STRUCTURAL ENGINEER FOR THIS PROJECT AND BE RESOLVED BEFORE PROCEEDING WITH THE WORK.
5. THESE CONSTRUCTION DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES, INCLUDING, BUT NOT LIMITED TO, BRACING, TEMPORARY SUPPORTS, AND SHORING. OBSERVATION OF THE SITE BY THE ARCHITECT/ENGINEER SHALL NOT INCLUDE INSPECTIONS OF THE PROTECTIVE MEASURES OR THE CONSTRUCTION PROCEDURES. ANY SUPPORT SERVICES PERFORMED BY THE ARCHITECT/ENGINEER DURING THE CONSTRUCTION SHALL BE DISTINGUISHED FROM CONSTRUCTION AND DETAILED INSPECTION SERVICES WHICH ARE FURNISHED BY OTHERS. THESE SUPPORT SERVICES PERFORMED BY THE ARCHITECT/ENGINEER, WHETHER OF MATERIAL OR WORK, ARE FOR THE PURPOSE OF ASSISTING IN QUALITY CONTROL AND IN ACHIEVING CONFORMANCE WITH CONTRACT DOCUMENTS, BUT DO NOT GUARANTEE CONSTRUCTION.
6. ASTM DESIGNATIONS AND ALL STANDARDS REFER TO THE LATEST AMENDMENTS.
7. CONFORM TO APPLICABLE CAL/OSHA CONSTRUCTION SAFETY REGULATIONS FOR ALL WORK PERFORMED DURING CONSTRUCTION. SITE SAFETY IS STRICTLY THE RESPONSIBILITY OF THE CONTRACTOR AND NOT THE ARCHITECT/ENGINEER OR OWNER.
8. THE ENGINEER AND THEIR CONSULTANTS SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, HANDLING, REMOVAL OR DISPOSAL OF HAZARDOUS MATERIALS AT THE PROJECT SITE, INCLUDING BUT NOT LIMITED, TO ASBESTOS, ASBESTOS PRODUCTS, POLYCHLORINATED BIPHENYL (PCB) OR OTHER TOXIC SUBSTANCES.
9. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS, OR IF A CHANGE IN THE SCOPE OF WORK IS PROPOSED, A CONSTRUCTION CHANGE DOCUMENT DETAILING AND SPECIFYING THE REQUIRED CHANGE(S) SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.
10. THE SCHOOL DISTRICTS INSPECTOR OF RECORD SHALL INSPECT AND APPROVE THE ERECTED FRAME PRIOR TO ROOF INSTALLATION.
11. SEE REQUIREMENTS FOR LOCATION IN ANY FIRE HAZARD SEVERITY ZONE FOR WILDLAND URBAN INTERFACE AREAS (WUI) AS SPECIFIED IN THE APPLICABLE VERSION OF THE CALIFORNIA BUILDING CODE. PROVIDE PROTECTION AND DETAILS OF ALL AREAS COMPLYING WITH THE WUI REQUIREMENTS.
12. LOCATING THIS STRUCTURE CLOSER THAN 20 FEET TO OTHER STRUCTURES MAY AFFECT THE ALLOWABLE AREA FOR THE EXISTING CONSTRUCTION PER THE APPLICABLE VERSION OF THE CALIFORNIA BUILDING CODE.
13. VIEWS AND DETAILS ARE NOT DRAWN TO SCALE (UNLESS NOTED OTHERWISE); DO NOT SCALE THESE DRAWINGS.
14. OTHER SITE SPECIFIC ITEMS MAY BE REQUIRED.

1. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) 360 - 16 AND 303-16 MANUAL REFERENCED BY THE 2022 EDITION OF THE CALIFORNIA BUILDING CODE.
2. PIPE SECTIONS SHALL CONFORM TO ASTM A53, Fy = 35 ksi, GRADE B UNLESS NOTED OTHERWISE.
3. STRUCTURAL TUBING (HSS SHAPES) SHALL CONFORM TO ASTM A500, GRADE B [OR HIGHER], Fy = 46 KSI.
4. IF MATERIAL AVAILABILITY IS LIMITED, MEMBER THICKNESSES CAN BE INCREASED BEYOND WHAT IS SHOWN IN THESE DRAWINGS (MAXIMUM INCREASE OF 1/8").
5. ALL CHANNELS, ANGLES, PLATES AND MISC. STEEL SHALL CONFORM TO ASTM A36, Fy = 36 KSI.
6. ALL COLD FORM STEEL SHALL CONFORM TO ASTM A653, CS = TYPE B, Fy = 50 KSI.
7. STRUCTURAL STEEL AND DECK SHALL BE IDENTIFIED FOR CONFORMITY PER CBC 2202A.1.
8. ROOF DECK SHALL HAVE KYNAR 5000 METAL COATING.
9. ROOF DECK SHALL CONFORM TO ASTM A792, Fy = 50 KSI.
10. MR ROOF SCREWS MEET ASTM A510 WITH A HEAD DIMENSION OF 0.31" (FLAT-TO-FLAT) AND INTEGRAL WASHER DIMENSION OF 0.58" (OUTSIDE DIAMETER).
11. SS ROOF SCREWS MEET ASTM A510 WITH A HEAD DIMENSION OF 0.437" (OUTSIDE DIAMETER).

1. ALL WELDING SHALL COMPLY WITH AWS D1.1 SPECIFICATIONS AND SHALL BE DONE BY AWS QUALIFIED WELDERS CERTIFIED FOR THE TYPE OF WELDING TO BE PERFORMED.
2. ALL WELDING SHALL BE DONE BY GAS METAL ARC PROCESS WITH E70XX ELECTRODES. FLUX CORE ARC WELD SHALL CONFORM TO CHARPY NOTCH TOUGHNESS RATING OF 20 ft-lb @ (10° F).
3. ALL WELDING SHALL BE DONE IN THE SHOP WITH REQUIRED INSPECTION, PRE-APPROVED BY DSA, TO ENSURE PROPER MATERIAL ID AND WELDING.
4. WELD FILLER METAL MANUFACTURER SHALL PROVIDE WRITTEN CERTIFICATION OF COMPLIANCE WITH CODE AND SPECIFICATIONS.

2. ALL BOLTS SHOWN ON THESE DRAWINGS ARE ASTM F3125 (A325 TYPE 1) HIGH STRENGTH BOLTS (UNO) AND SHALL BE HOT DIPPED GALVANIZED PER ASTM F2329.
3. HIGH STRENGTH BOLTS SHALL BE SAMPLED AND TESTED IN COMPLIANCE WITH CBC 2213A.1.
4. BEFORE ERECTING THE FRAME, VERIFY ALL BOLTS AND NUTS ARE CLEAN OF DEBRIS AND BURRS - INCLUDING THE HARDWARE ALREADY FASTENED INTO THE MEMBERS. CHASING SOME OF THE BOLTS AND NUTS MAY BE REQUIRED.
5. ANCHOR BOLTS (HEAVY HEX HEAD, ASTM F1554, GRADE 55) SHALL BE HOT DIPPED GALVANIZED PER ASTM F2329. ANCHOR BOLTS MAY BE HEADED OR THREADED WITH A NUT THAT IS PREVENTED FROM ROTATING.
6. HIGH STRENGTH NUTS SHALL CONFORM TO ASTM A563 AND SHALL BE GALVANIZED PER ASTM F2329.
7. HIGH STRENGTH WASHERS SHALL CONFORM TO ASTM F436 AND SHALL BE GALVANIZED PER ASTM F2329.
8. THE BOLTING INSTALLATION REQUIREMENTS OUTLINED BELOW ARE CRITICAL TO THE STRUCTURE'S DESIGN AND PERFORMANCE. **THE INSTALLER IS REQUIRED TO COORDINATE THIS PHASE OF CONSTRUCTION WITH THE SPECIAL BOLTING INSPECTOR AND INSPECTOR OF RECORD PRIOR TO THE ERECTION OF THE FRAME.** ALL BOLTS SHALL BE INSTALLED AND INSPECTED PER THE APPLICABLE VERSION OF AISC'S SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS". CBC 1705A.2.1; AISC 341-16 J7; AISC 360-16 N5.6.
 - A. PRETENSIONED JOINTS (IDENTIFIED ON THE FRAME CONNECTION DETAILS WITH A "P.I. REQUIRED") MUST BE INSTALLED AND INSPECTED TO MEET ONE OF THE FOLLOWING REQUIREMENTS:
 1. TURN-OF-NUT PRETENSIONING
 2. CALIBRATED WRENCH PRETENSIONING
 3. DIRECT-TENSION-INDICATOR PRETENSIONING
(CONTRACTOR RESPONSIBLE FOR PURCHASE OF REQUIRED WASHERS)
 - B. ALL OTHER JOINTS MUST BE INSTALLED AND INSPECTED TO MEET THE REQUIREMENTS OF SNUG-TIGHTENED JOINTS. **NOTE TO INSTALLER AND INSPECTOR(S): THE SNUG-TIGHT CONDITION EXISTS, IN PART, WHEN ALL THE BOLTS IN THE JOINT HAVE BEEN TIGHTENED SUFFICIENTLY TO PREVENT THE REMOVAL OF THE BOLTS WITHOUT THE USE OF A WRENCH.**

1. ALLOWABLE SOIL PRESSURES ASSUME CLASS 5 SOIL CLASSIFICATION PER 2022 CBC TABLE 1806A. 2.
2. FILL AND BACKFILL SHALL BE COMPACTED TO 95% OF MAX. DENSITY IN ACCORDANCE WITH ASTM TEST METHOD D1557. FLOODING NOT PERMITTED.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING, ETC. NECESSARY TO SUPPORT CUT AND/OR FILL BANKS DURING EXCAVATION, AND FORMING AND PLACEMENT OF CONCRETE.
4. STRUCTURES SHALL BE SETBACK FROM ADJACENT SLOPES TO PROVIDE FIRM MATERIAL FOR EMBEDMENT AND FOR PROTECTION FROM SLOPE DRAINAGE, EROSION, AND SHALLOW FAILURES.
 - A. BOTTOM OF ASCENDING SLOPE: THE SMALLER OF HALF THE HEIGHT OF THE SLOPE AND 15FT MEASURED FROM THE FACE OF THE STRUCTURE TO THE TOE OF THE SLOPE
 - B. TOP OF DESCENDING SLOPE: THE SMALLER OF A THIRD OF THE HEIGHT OF THE SLOPE AND 40 FT. MEASURED FROM THE FACE OF THE FOOTING TO THE TOP OF THE SLOPE

ALTERNATE SETBACKS ARE PERMITTED, SUBJECT FOR APPROVAL. A GEOTECHNICAL INVESTIGATION MAY BE REQUIRED.

5. STRUCTURES PLACED ON LIQUIFIABLE SOILS OR SITE CLASS F MAY NOT BE SUBMITTED FOR AN OVER THE COUNTER REVIEW.

1. MIX DESIGN REQUIREMENTS: (NORMAL WEIGHT CONCRETE)

MINIMUM STRENGTH f'c (28 DAYS)	EXPOSURE CATEGORY	W/C RATIO MAXIMUM)	SLUMP (± 1")	UNIT WEIGHT (NORMAL WEIGHT)
5000 PSI	F3, S3, W2, C2	0.4	4"	150 PCF

2. CHANGES TO THE MIX DESIGN MUST BE APPROVED BY THE ENGINEER OR ARCHITECT OF RECORD AND DSA
3. AGGREGATES SHALL CONFORM TO ASTM C33. MAX AGGREGATE SIZE = 1".
4. CEMENT SHALL CONFORM TO ASTM C150 (TYPE V) WITH A MAXIMUM EXPANSION OF 0.040%, FOR SULFATE RESISTANCE.
5. ADMIXTURES CONTAINING CALCIUM CHLORIDE ARE PROHIBITED.
6. CONCRETE EXPOSED TO FREEZING-AND-THAWING CYCLES SHALL BE AIR ENTRAINED PER ACI 318-19 SECTION 19.3.3
7. CONCRETE SHALL BE MAINTAINED IN A MOIST CONDITION FOR A MINIMUM OF FIVE DAYS AFTER PLACEMENT. ALTERNATE METHODS WILL BE APPROVED IF SATISFACTORY PERFORMANCE CAN BE ASSURED.
8. CONCRETE SHALL NOT FREE FALL MORE THAN FIVE FEET.
9. CONCRETE SHALL BE PROPORTIONED PER ACI 318-19 26.4.
10. CONCRETE SHALL BE TESTED PER CRC 1910A.1, 1705A.3, AND ACI 318-19 26.13. BATCH PLANT INSPECTION NOT REQUIRED. CONTRACTOR SHALL IMPLEMENT WEIGHTMASTER AND BATCH TICKET REQUIREMENTS OF CRC 1705A.3.3.1.

1. REINFORCING STEEL SHALL BE DEFORMED STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A615.
[DEFORMATIONS SHALL BE IN ACCORDANCE WITH ASTM A305] AS FOLLOWS:
GR 60; (#4 BARS AND LARGER)
GR 40; (#3 BARS)
2. DETAILING, FABRICATION, AND ERECTION OF REINFORCING BARS SHALL CONFORM TO THE ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCING CONCRETE STRUCTURES."
3. MIN. COVER FOR CAST-IN-PLACE CONCRETE SHALL BE AS FOLLOWS:

A. CAST AGAINST EARTH.....	3"
B. CAST AGAINST FORM BELOW GRADE.....	2"
C. FORMED SLABS (#11 BAR & SMALLER).....	3/4"
D. SLABS ON GRADE (FROM TOP OF SLAB).....	1"
E. COLUMNS AND BEAMS (MAIN BARS).....	2"
F. WALLS EXPOSED TO WEATHER (#8 & #18 BARS).....	2"
G. NOT EXPOSED TO WEATHER (#5 & SMALLER).....	1 1/2"
H. NOT EXPOSED TO WEATHER (#11 & SMALLER).....	3/4"
4. BARS SHALL BE CLEAN OF RUST, GREASE OR OTHER MATERIAL LIKELY TO IMPAIR BOND. BENDS SHALL BE MADE COLD.
5. FOR #6 BARS AND SMALLER, REINFORCING SHALL BE LAP SPICED 45 BAR DIA MINIMUM IN CONCRETE. FOR #7 BARS AND LARGER, REINFORCING SHALL BE LAP SPICED 55 BAR DIAMETERS MINIMUM IN CONCRETE. ALL LAP SPICES MUST COMPLY WITH ACI 318-19.
6. PRIOR TO PLACING OF CONCRETE, REINFORCING STEEL AND EMBEDDED ITEMS SHALL BE WELL SECURED IN POSITION.
7. WELDING OF REINFORCING IS NOT ALLOWED
8. REINFORCING STEEL SHALL BE SAMPLED AND TESTED PER CBC 1910A.2.

1. ENTIRE POWDER COATING PROCESS COMPLETED IN SAME FACILITY AS STEEL FABRICATION.
2. ALL CARBON STEEL MEMBERS (COLUMNS, BEAMS, PLATES, ETC.) PAINTED WITH PRIME COAT PER THE "AISC CODE OF STANDARD PRACTICE" AND THE "AISC SPECIFICATION SECTION M3" (UNLESS NOTED OTHERWISE).
3. PARTS PRETREATED IN A 3 STAGE IRON PHOSPHATE WASHER (OR EQUAL).
4. EPOXY PRIMER POWDER COAT APPLIED TO PARTS FOR SUPERIOR CORROSION PROTECTION.
5. TOP POWDER COAT OF SUPER DURABLE TGIC (COLOR SELECTED FROM MANUFACTURER'S STANDARD OPTIONS OR CUSTOM COLOR).
6. SAMPLE PRODUCTION PARTS TESTED TO MEET THE FOLLOWING CRITERIA:
 - A. SALT SPRAY RESISTANCE PER ASTM B 117 ASTM D 1654
 1. 1000 HOURS WITH NO CREEP FROM SCRIBE LINE AND RATING OF 10
 - B. HUMIDITY RESISTANCE PER ASTM D2247-02
 1. 5000 HOURS WITH NO LOSS OF ADHESION OR BLISTERING
 - C. COLOR/UV RESISTANCE PER ASTM G154-04
 1. 2000 HOURS EXPOSURE ALTERNATE CYCLES WITH NO CHALKING, 75% COLOR RETENTION, AND COLOR VARIATION MAXIMUM 3.0 E VARIATION CIE FORMULA (BEFORE AND AFTER 2000 HOURS EXPOSURE)

1. A DSA-CERTIFIED CLASS 2 INSPECTOR IS REQUIRED FOR THIS PROJECT.

2. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDUM OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24 CCR AND DSA IR 4-6.
 3. A "DSA-CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE OWNER (E.G. DISTRICT, ETC.) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24 CCR.
 4. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE OWNER (E.G. DISTRICT, ETC.) SHALL CONDUCT ALL THE REQUIRED TEST AND INSPECTIONS FOR THE PROJECT.
- NOTICE OF DISCLAIMER FOR STRUCTURAL ENGINEER RESPONSIBILITY**
1. FOR THE SITE-SPECIFIC PROJECT, NEITHER POLYGON OR GHD ARE THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE.
 2. FOR THE SITE-SPECIFIC PROJECT, GHD AND POLYGON'S RESPONSIBILITY IS LIMITED TO THE PREPARATION OF THE PLANS AND SPECIFICATIONS FOR THE STRUCTURES OF THIS PC ONLY.
 3. STRUCTURAL OBSERVATION OF CONSTRUCTION IS SPECIFICALLY EXCLUDED FROM GHD AND POLYGON'S RESPONSIBILITY FOR THE SITE-SPECIFIC PROJECT.
 4. ALL CONSTRUCTION ACTIVITIES RELATED TO STRUCTURAL ENGINEERING MAY BE DELEGATED TO A QUALIFIED ENGINEER BY THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE. THESE ACTIVITIES INCLUDE, BUT ARE NOT LIMITED TO, APPROVAL OF INSPECTOR QUALIFICATIONS, STRUCTURAL OBSERVATIONS OF CONSTRUCTION, REVIEW OF INSPECTIONS REPORTS, AND SIGNING OFF ON THE VERIFIED REPORT FOR COMPLETED WORK.
 5. POLYGON WILL BE RESPONSIBLE FOR RESPONDING TO QUESTIONS PERTAINING TO THE PLANS AND SPECIFICATIONS FOR THE STRUCTURES OF THIS PC WHICH ARISE DURING PLAN REVIEW AND CONSTRUCTION.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2022 CBC

Application Number:	School Name:	School District:
DSA File Number:	Increment Number:	Date Submitted:

2022 CBC

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on the form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 CBC).

****NOTE:** Undefined section and table references found in this document are from the CBC, or California Building Code.

KEY TO CALLS

1. TYPE	2. PERFORMED BY
Continuous – Indicates that a continuous special inspection is required	GE – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative.
Periodic – Indicates that a periodic special inspection is required	LO – Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CBC Section 4-335.
Test – Indicates that a test is required	PI – Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA.
	SI – Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.

S1. GENERAL:				
	Test or Special Inspection	Type	Performed By	Code References and Notes
	a. Verify that: • Site has been prepared properly prior to placement of controlled fill and/or excavations for foundations. • Foundation excavations are extended to proper depth and have reached proper material. • Materials below footings are adequate to achieve the design bearing capacity.	See Notes	PI	Refer to specific items identified in the Appendix listing exemptions for limitations. Placement of controlled fill exceeding 12" depth under foundations is not permitted without a geotechnical report.
✓				

S2. SOIL COMPACTION AND FILL:			
	Test or Special Inspection	Type	Performed By
☑	a. Verify use of proper materials, densities and inspect lift thicknesses, placement and compaction during placement of fill.	Continuous	LOR* * Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations.
☑	b. Compaction testing.	Test	LOR* * Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations.

S4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS):				
Test or Special Inspection		Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/>	a. Inspect drilling operations and maintain complete and accurate records for each pier.	Continuous	PI	Continuous inspection to be provided by project inspector. Refer to specific items identified in the Appendix listing exemptions for limitations.
<input checked="" type="checkbox"/>	b. Verify pier locations, diameters, plumbness, and lengths. Record concrete or grout volumes.	Continuous	PI	Continuous inspection to be provided by project inspector. Refer to specific items identified in the Appendix listing exemptions for limitations.
<input checked="" type="checkbox"/>	c. Concrete piers.	Provide tests and inspections per CONCRETE section below.		

C1. CAST-IN-PLACE CONCRETE		Type	Performed By	Code References and Notes
	Test or Special Inspection			
<input checked="" type="checkbox"/>	a. Verify use of intended design mix.	Periodic	SI	Table 1705A.3 Item 5, 1901A.1.1.
<input checked="" type="checkbox"/>	b. Identify, sample, and test reinforcing steel.	Test	LOR	1901A.2, ACI 318-19 ch. 20; Section 26.6.1.2; DSA IR 17-10. (See Appendix (end of this form) for exemptions.)
<input checked="" type="checkbox"/>	c. During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	Test	LOR	Table 1705A.3 Item 6; ACI 318-19 Sections 26.5 & 26.12.
<input checked="" type="checkbox"/>	d. Test concrete (f_r).	Test	LOR	1905A.1.17; ACI 318-19 Section 26.12.
<input checked="" type="checkbox"/>	e. Batch plant inspection:	See Notes	SI	Default of "Continuous" per 1705A.3.3.1, if approved by DSA, batch plant inspection may be reduced to "Periodic" subject to requirements in Section 1705A.3.3.1, or eliminated per 1705A.3.3.2. See IR 17-13. (See Appendix (end of this form) for exemptions.)

S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES			
	Test or Special Inspection	Type	Performed By Code References and Notes
2	a. Verify identification of all materials and all certificates indicate material properties that comply with requirements. • Material sizes, types and grades comply with requirements.	Periodic	Test 1705A.2.1 Item 3a-3c, 2202A.1; AISI S100-20 Section A3 & A5, AISI S220-20 Section A3 & A5, AISI S220-20 Sections A4 & A6. * By special inspector or qualified technician when performed off-site
2	b. Test unidentified materials	Test	LOR 2202A.1.
2	c. Examine seam welds of HSS shapes	Periodic	SI DSA IR 17-3.
2	d. Verify and document steel fabrication per DSA approved construction documents.	Periodic	SI Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4).

S/A2. HIGH-STRENGTH BOLTS:		Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/>	a. Verify identification markings and manufacturer's certificates of compliance conform to ASTM standards specified in the DSA-approved documents.	Periodic	SI	Table 1705A.2.1 Items 1a & 1b, 2202A.1; AISC 360-16 Section A3.3, J3.1, and N5.2; RCSC 2014 Section 1.5 & 2.1; DSA IR 17-8 & DSA IR 17-9.
<input checked="" type="checkbox"/>	b. Test high-strength bolts, nuts and washers.	Test	LOR	Table 1705A.2.1 Item 1c, 2213A.1; RCSC 2014 Section 7.2; DSA IR 17-9.
<input checked="" type="checkbox"/>	c. Bearing-type ("smug tight") connections.	Periodic	SI	Table 1705A.2.1 Item 2a, 2204A.2, 2204A.3; AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Section 9.1; DSA IR 17-9.
<input checked="" type="checkbox"/>	d. Pretensioned and slip-critical connections.	"	SI	Table 1705A.2.1 Items 2b & 2c, 1705A.2.6, 2204A.2; AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Sections 9.2 & 9.3; DSA IR 17-9. "Continuum" or "Periodic" depends on the tightening method used.

S/A3. WELDING:				
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	a. Verify weld filler material identification markings per AWS designation listed on the DSA- approved documents and the WPS.	Periodic	SI	1705A.2.5, Table 1705A.2.1 Items 4 & 5; AWS D1.1 and AWS D1.8 for structural steel; AWS D1.2 for Aluminum; AWS D1.3 for cold-formed steel; AWS D1.4 for reinforcing steel; DSA IR 17-3.
☑	b. Verify weld filler material manufacturer's certificate of compliance.	Periodic	SI	DSA IR 17-3.
☑	c. Verify WPS, welder qualifications and equipment.	Periodic	SI	DSA IR 17-3.

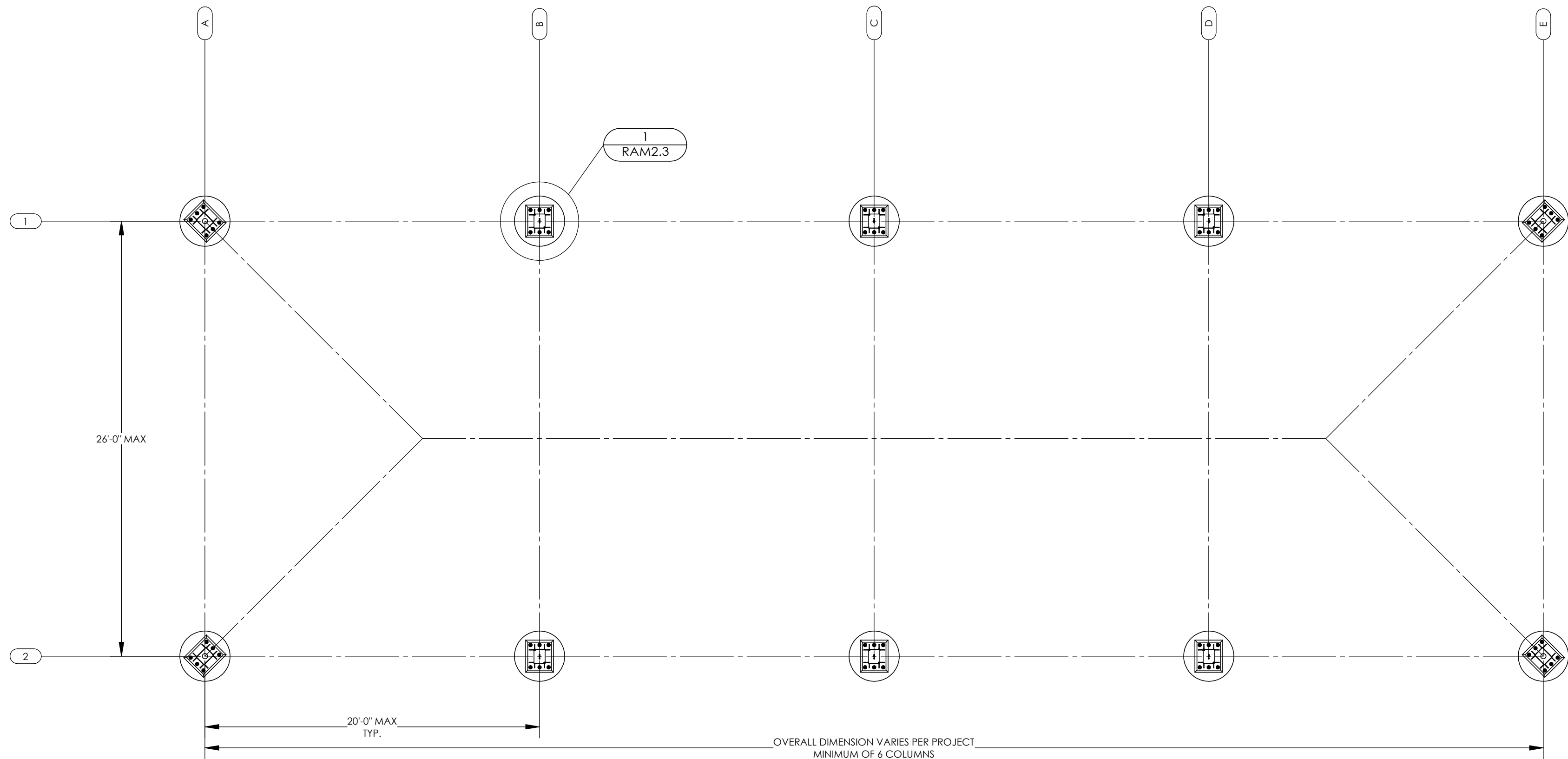
S/4. SHOP WELDING (IN ADDITION TO SECTION S/A3):				
Test or Special Inspection		Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/>	Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	Continuous	SI	Table 1705A.2.1, Items 5a.1-4; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
<input checked="" type="checkbox"/>	Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds.	Periodic	SI	1705A.2.2, Table 1705A.2.1, Items 5a.5 & 5a.6; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.

	S/A9. ANCHOR BOLTS AND ANCHOR RODS:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/>	a. Anchor Bolts and Anchor Rods	Test	LOR	Sample and test anchor bolts and anchor rods not readily identifiable per procedures noted in DSA IR 17-11.

Name of Architect or Engineer in general responsible charge:	
Name of Structural Engineer (When structural design has been delegated):	
Signature of Architect or Structural Engineer:	Date:
<p>Note: To facilitate DSA electronic mark-ups and identification stamp application, DSA recommends against using secured electronic or digital signatures.</p>	

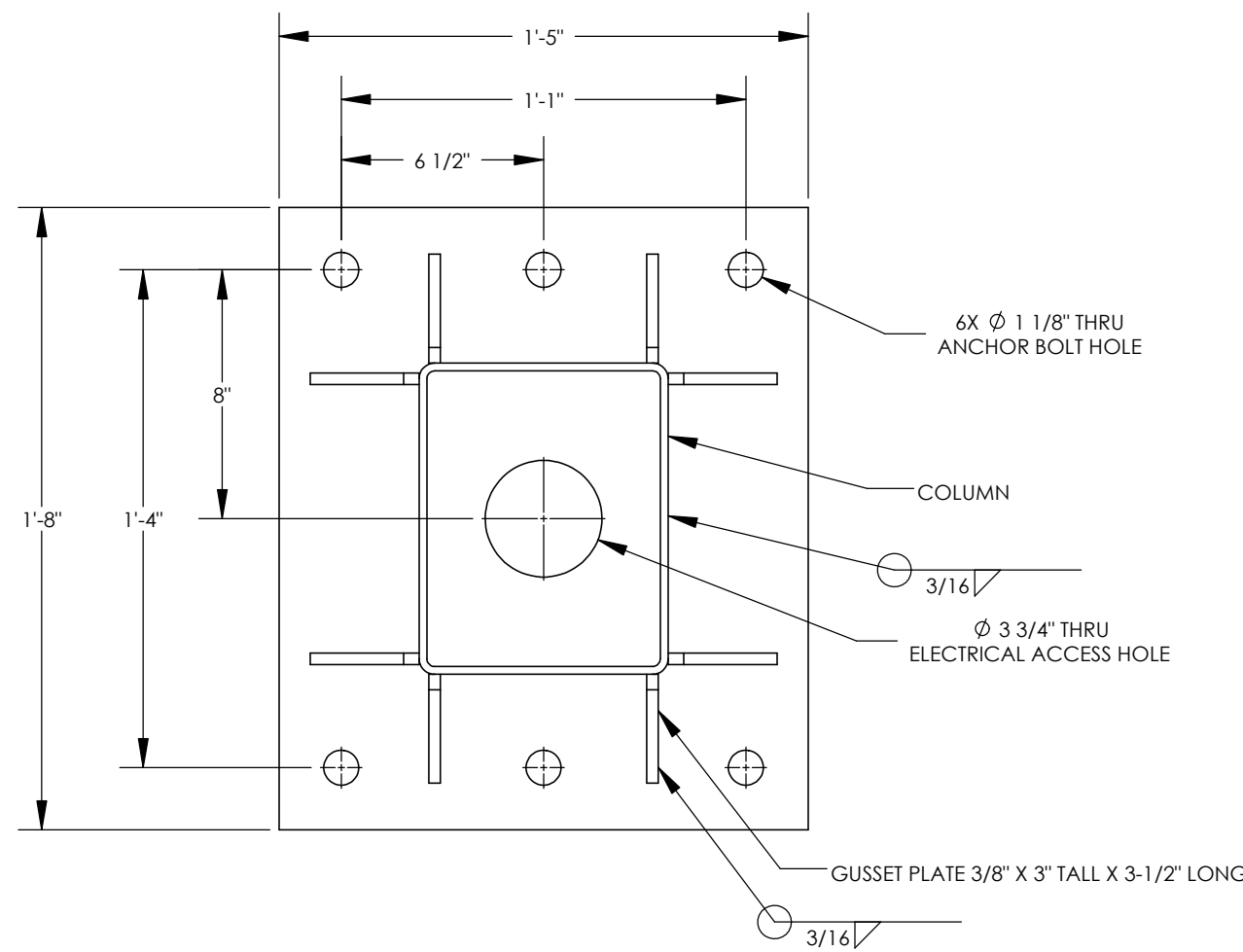
			DSA STAMP

1. Soils Testing and Inspection: Geotechnical Verified Report Form DSA 293
2. Structural Testing and Inspection: Laboratory Verified Report Form DSA 291
3. Shop Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292
4. High-Strength Bolt Installation Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292



FOUNDATION PLAN (DRILLED PIER)

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

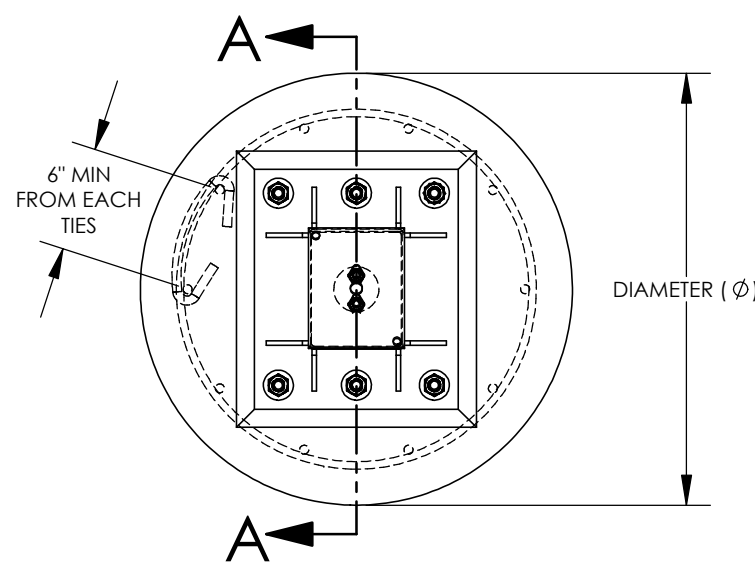


DETAIL 3

SCALE: 1-1/2" = 1'-0"

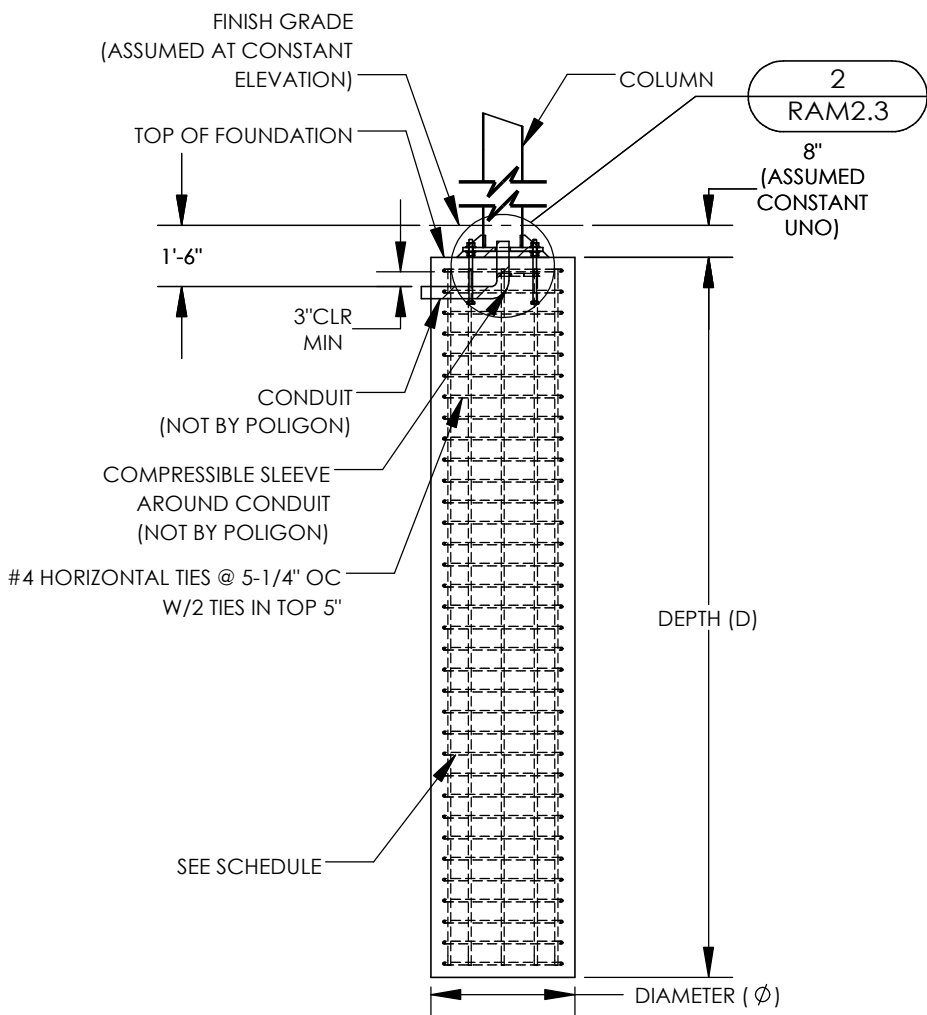
COLUMN BASEPLATE

3



DETAIL 1

SCALE: 3/4" = 1'-0"



SECTION A-A

SCALE: 1/4" = 1'-0"

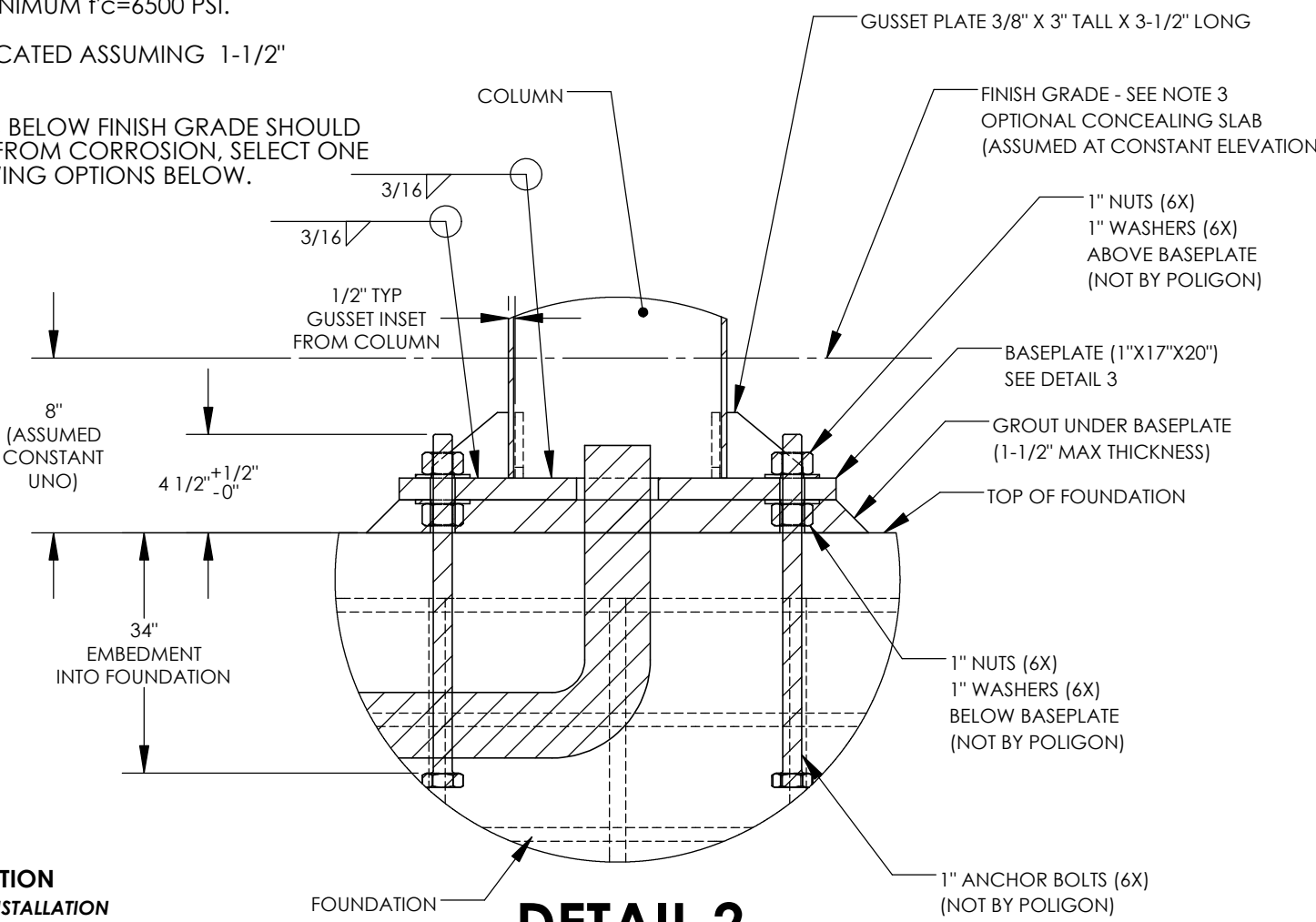
FOUNDATION REQUIREMENTS VARY PER PROJECT SEE SHEET RAM1.0 FOR REQUIRED LOAD SCENARIO AND FOUNDATION TYPE (STEP 9 OF 'INSTRUCTIONS') ONLY REFERENCE COPY OF PC DRAWINGS SUBMITTED FOR THIS PROJECT				
DRILLED PIER SIZE AND REINFORCING REQUIREMENTS				
LOAD SCENARIO	DIAMETER (Ø)	DEPTH (D)	VERTICAL REINFORCING ¹	
			QTY	SIZE
1	3'-0"	13'-0"	10	#7
2	3'-0"	15'-0"	10	#7

¹ EQUALLY SPACED AROUND DRILLED PIER

NOTES:

- GROUT SHALL BE NON-METALLIC, NON-SHRINK GROUT WITH MINIMUM FC=6500 PSI.
- COLUMNS FABRICATED ASSUMING 1-1/2" GROUT PAD.
- COLUMN BASES BELOW FINISH GRADE SHOULD BE PROTECTED FROM CORROSION, SELECT ONE OF THE FOLLOWING OPTIONS BELOW.

COLUMN BASE PROTECTION
BELOW SURFACE COLUMN INSTALLATION
[] CONCRETE SLAB - 3" MIN ANCHOR BOLT COVER
[] MASTIC COATING - 1/4" THICK MIN COATING ON ALL STEEL SURFACES BELOW GRADE



DETAIL 2

SCALE: 1-1/2" = 1'-0"

COLUMN BASEPLATE AND ANCHOR BOLTS

2

DRILLED PIER FOUNDATION

1

STATE APPROVALS-SITE

4083 P. A2A, GOLDEN GATE, DUBLIN, CA 94568
SUITE B
CAMERON TAYLOR, P.E., C.E. 00082
510.877.0016



polygon
PORTER & PARTNERS



STATE APPROVALS-PC

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121213 PC
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒ CG ☐
DATE: 7/18/2023

PRE-CHECK (PC)
DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT
APPLICATION FOR
CONSTRUCTION IS REQUIRED.

FOUNDATION
PLAN DRILLED PIER

HIP ROOF - RAM 30

RAM2.3

STATE APPROVALS-SITE

4033 P. Aza, Goldcrest Circle
Suite B,
Campbell, CA 95008
408.877.0016



polygon
PORTER
ARCHITECTS



STATE APPROVALS-PC

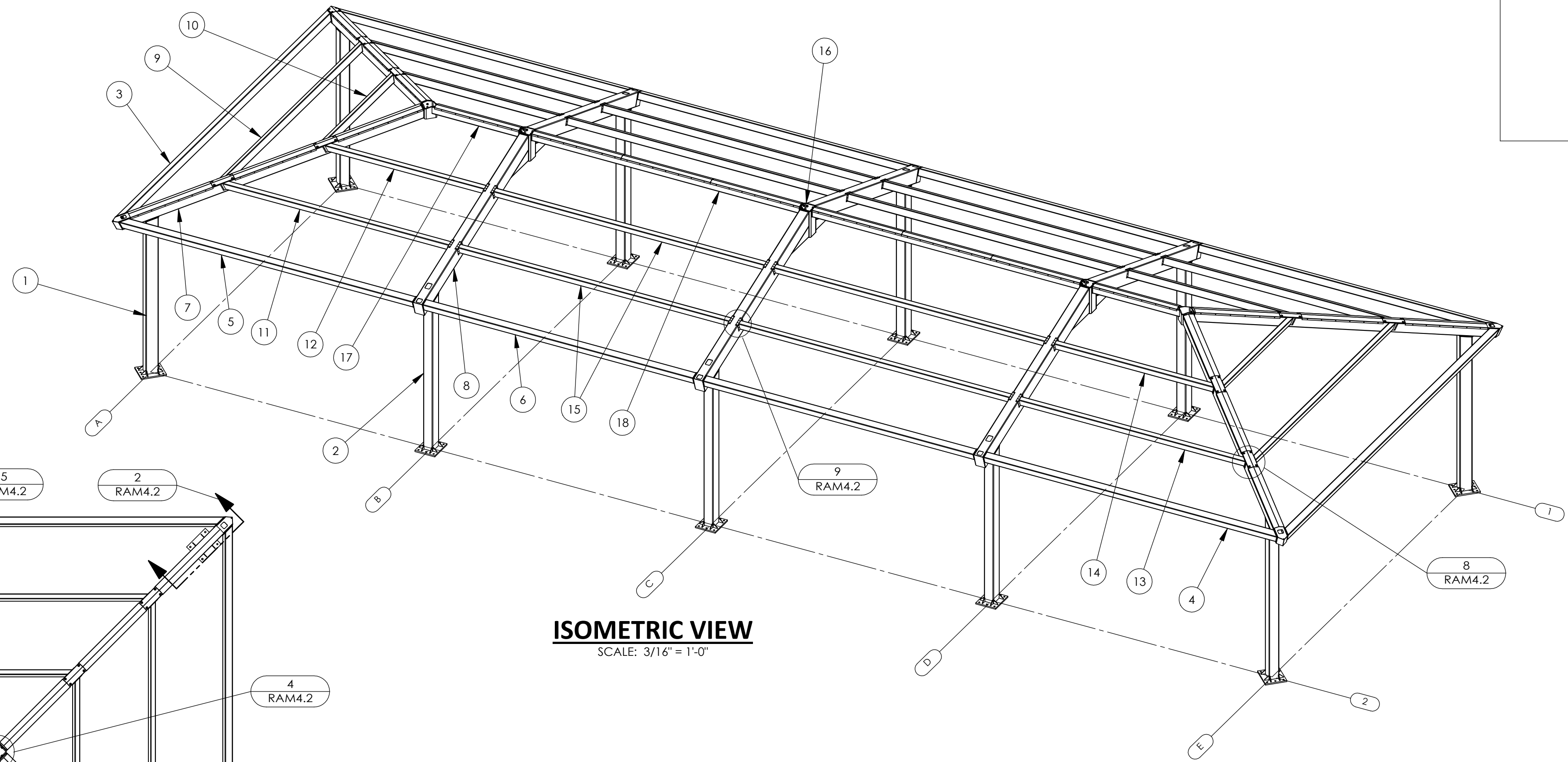
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121213 PC
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒ CG ☐
DATE: 7/18/2023

PRE-CHECK (PC)
DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT
APPLICATION FOR
CONSTRUCTION IS REQUIRED.

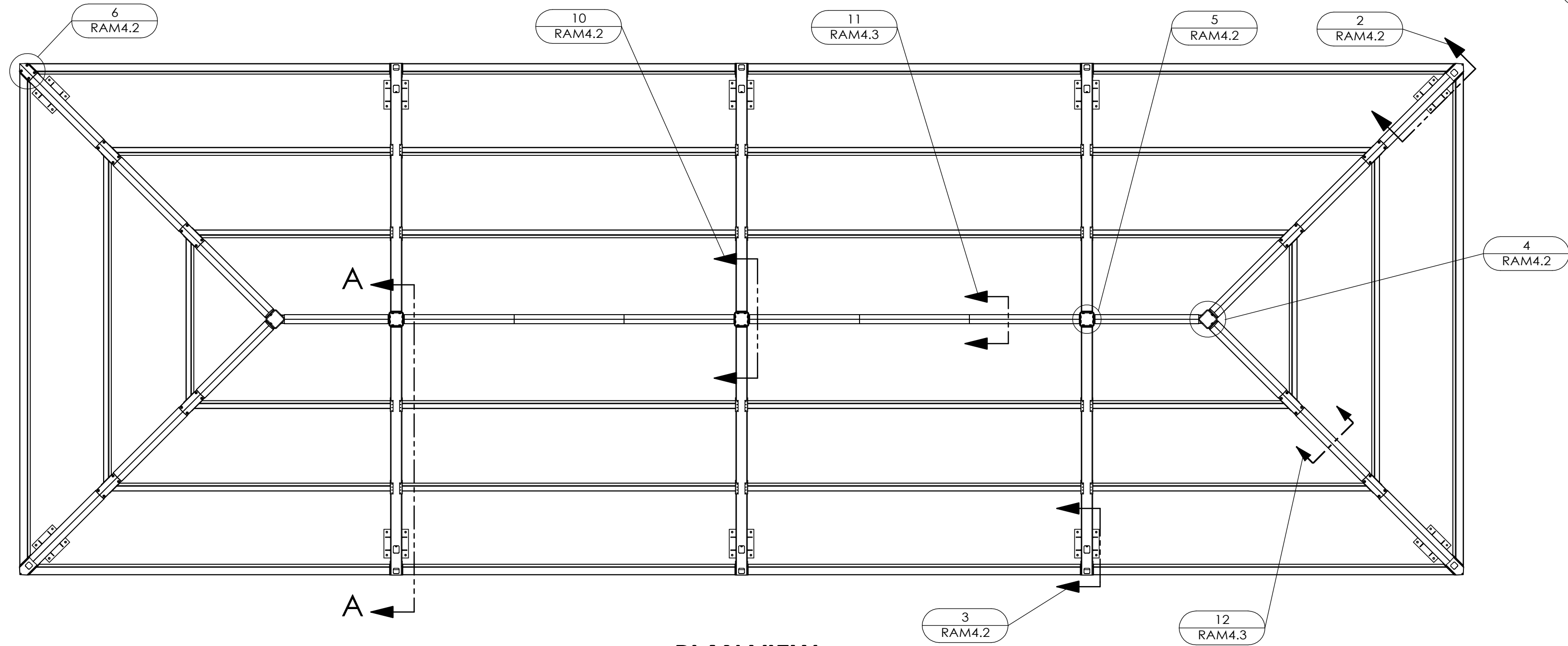
FRAMING PLAN

RAM3.1

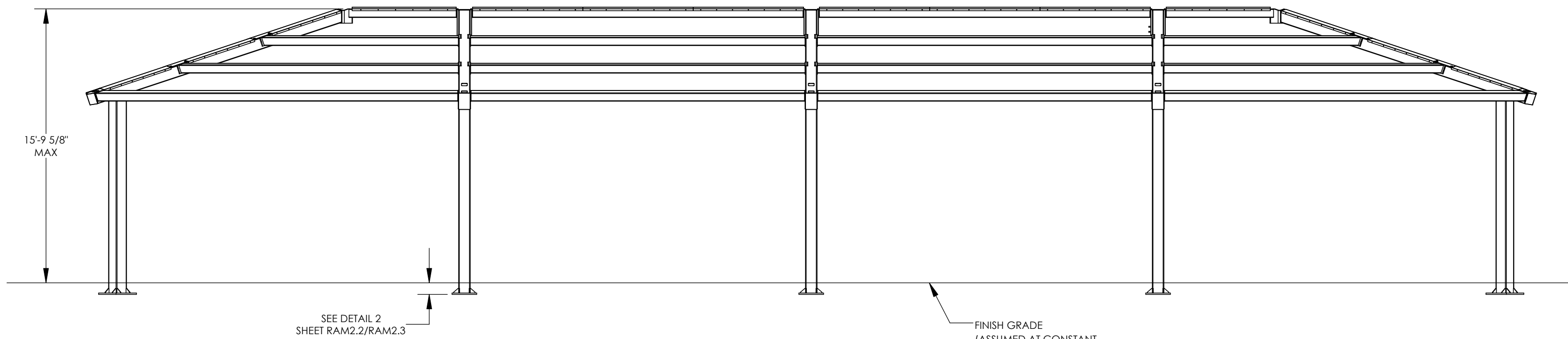
HIP ROOF - RAM 30



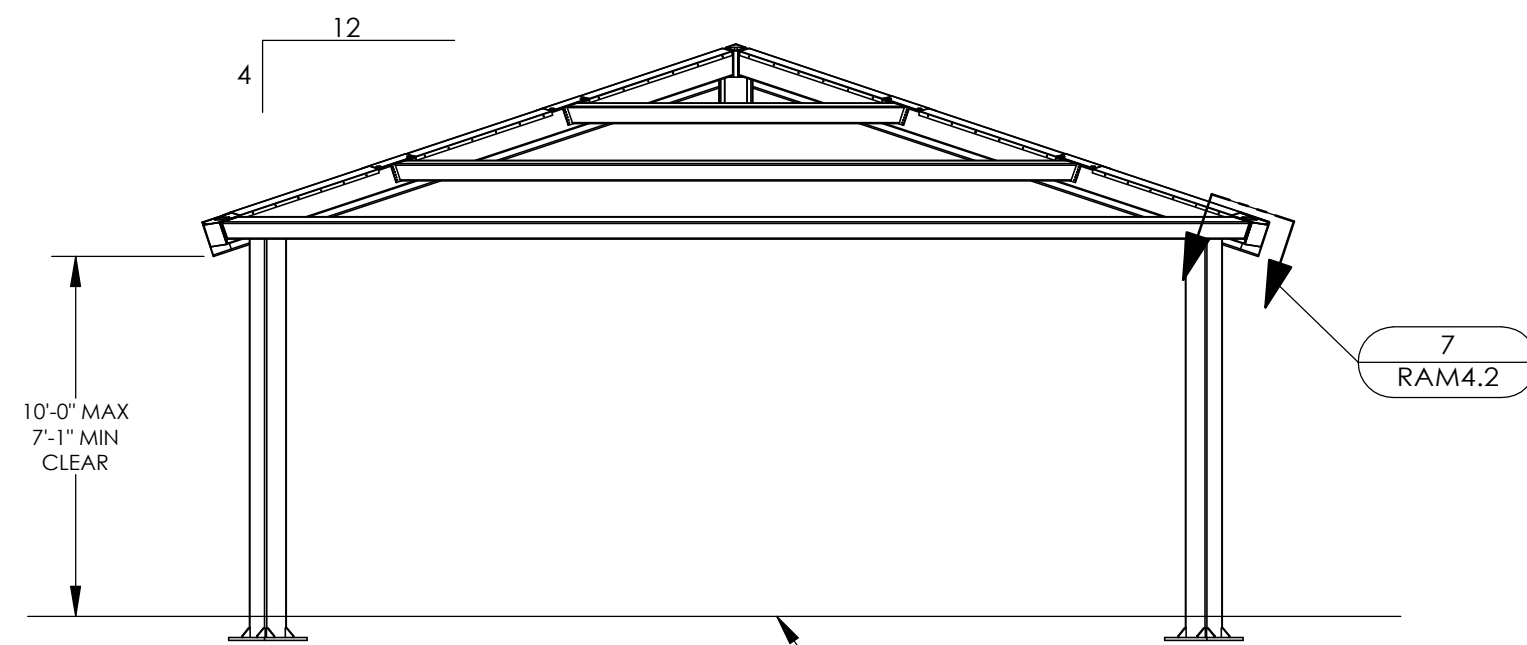
ISOMETRIC VIEW
SCALE: 3/16" = 1'-0"



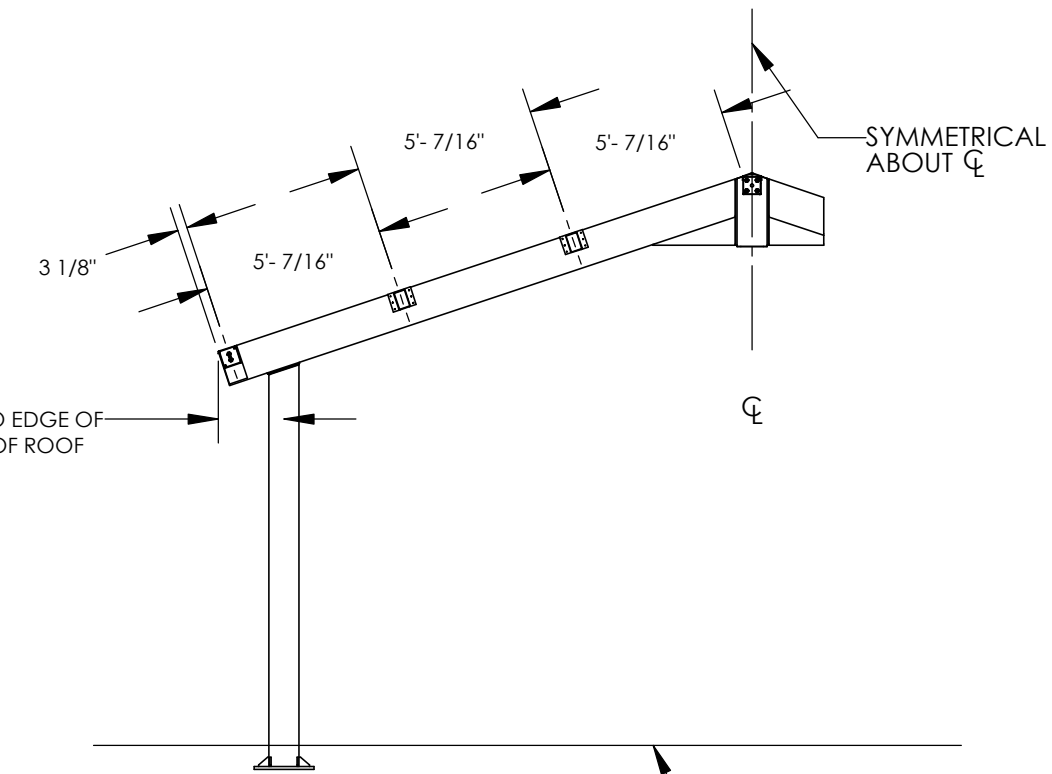
PLAN VIEW
SCALE: 3/16" = 1'-0"



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

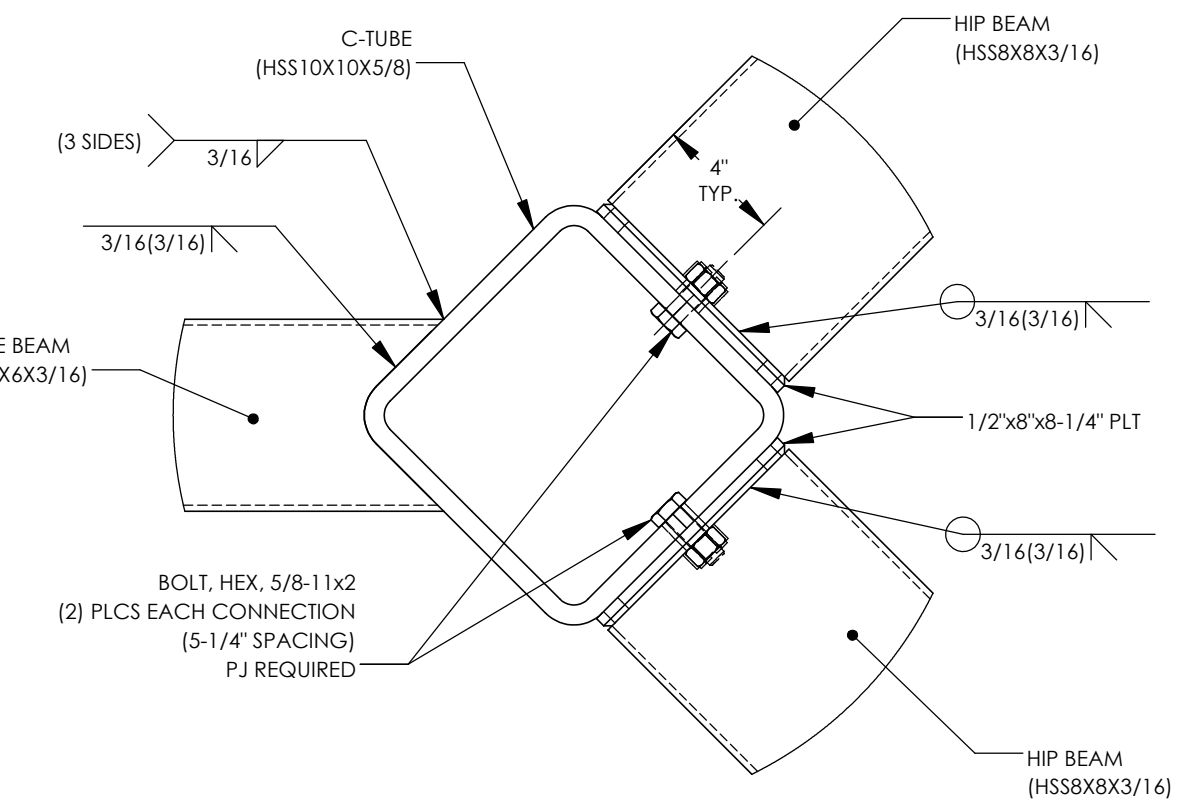
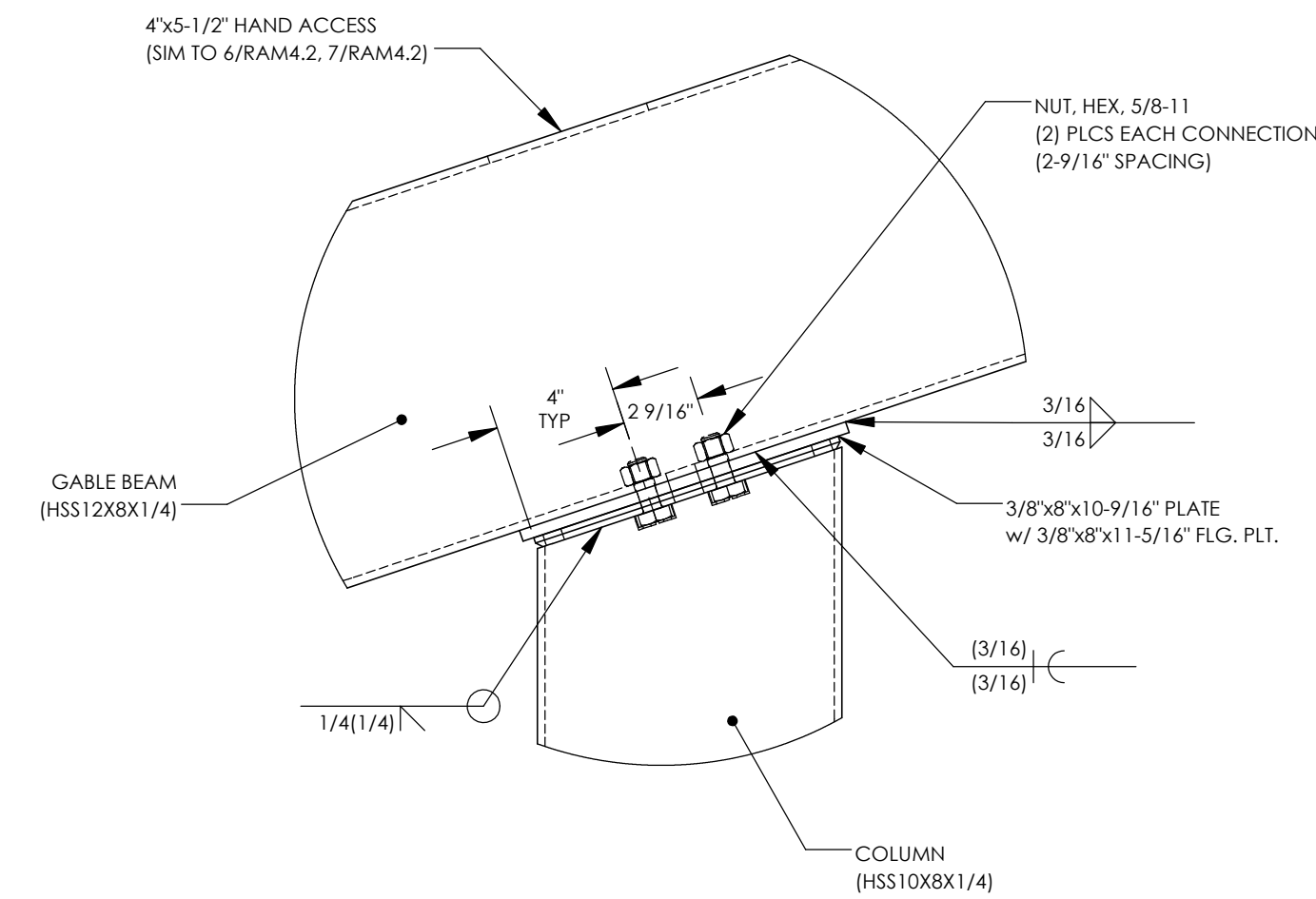
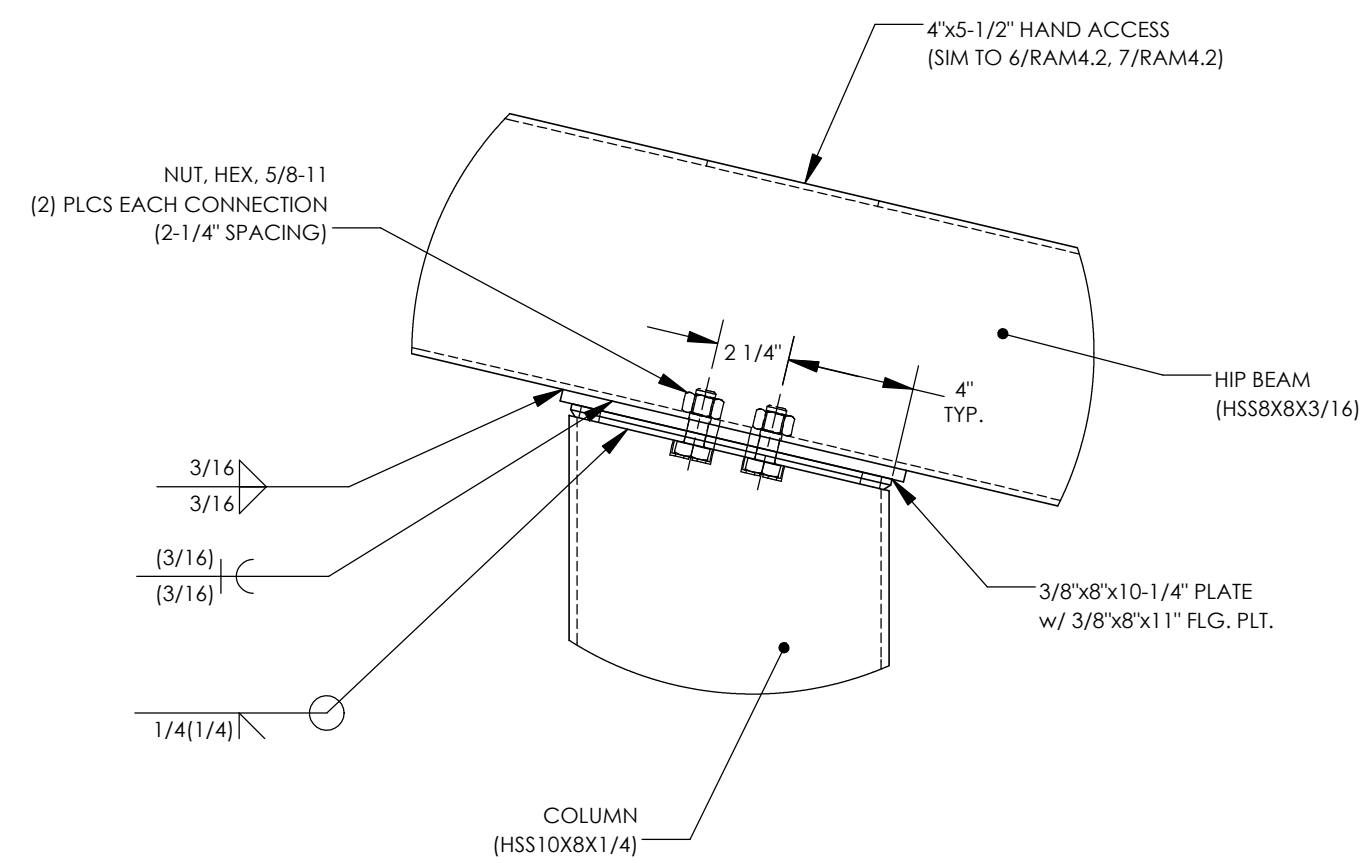
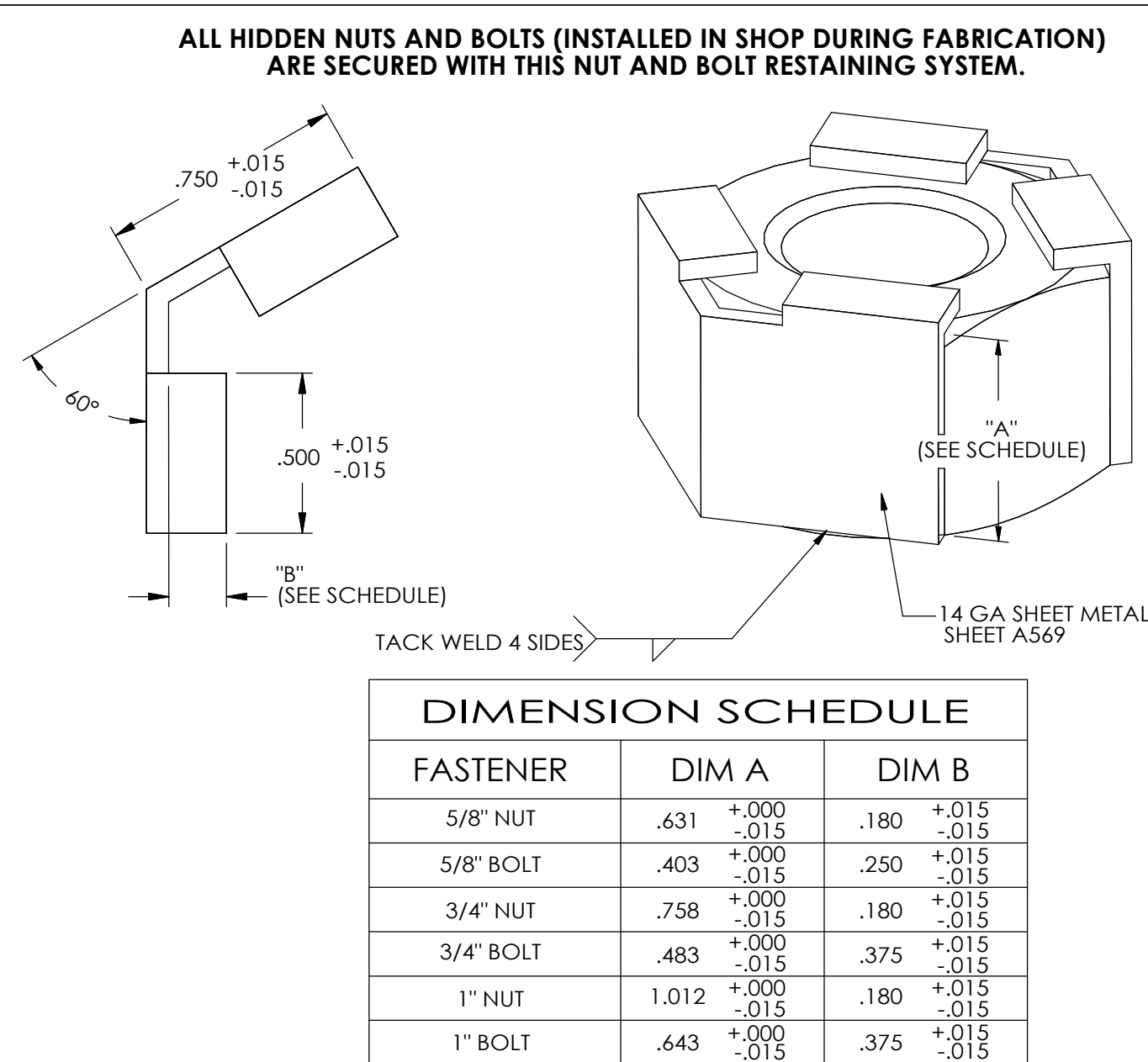


SIDE ELEVATION
SCALE: 3/16" = 1'-0"



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

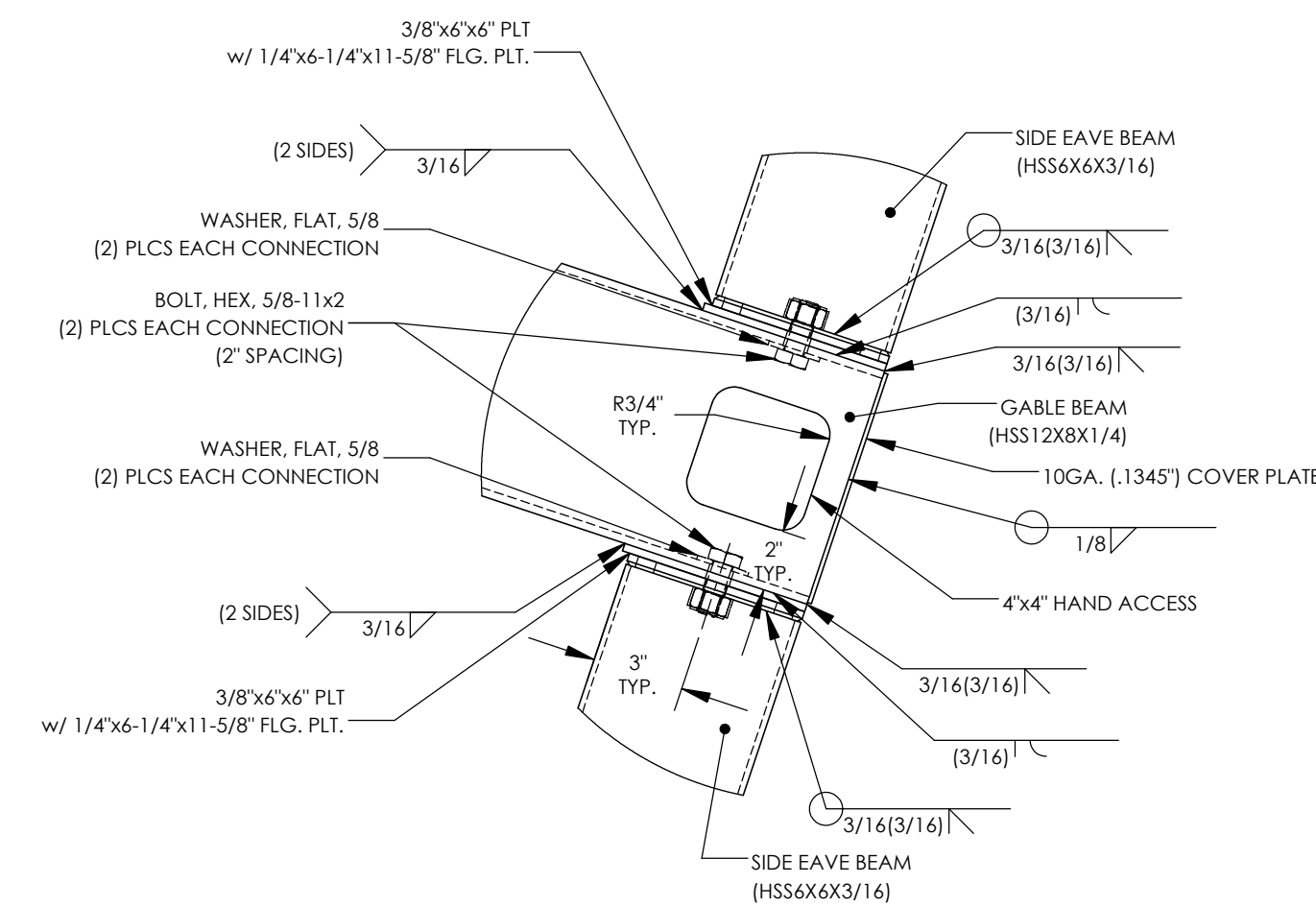
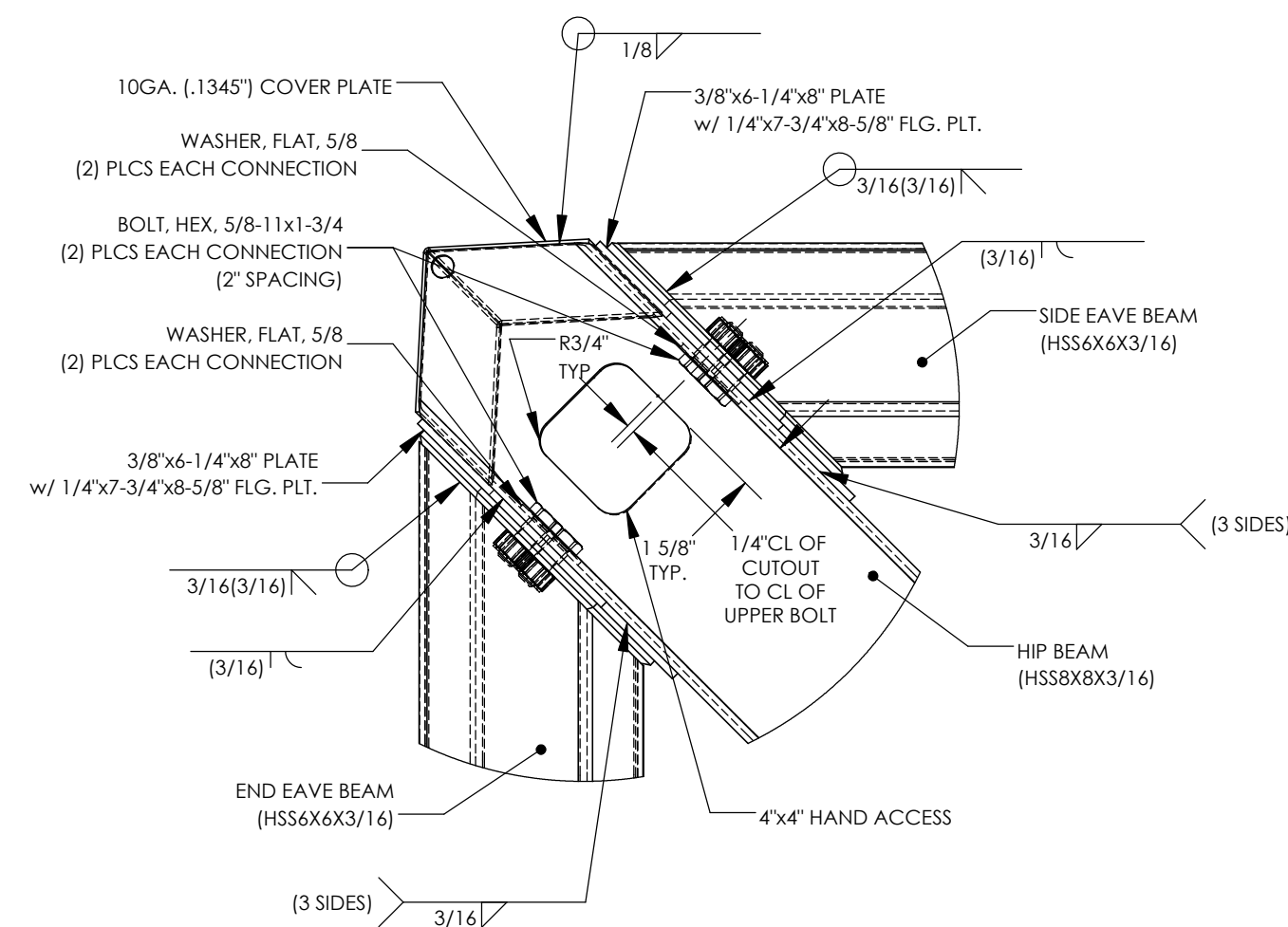
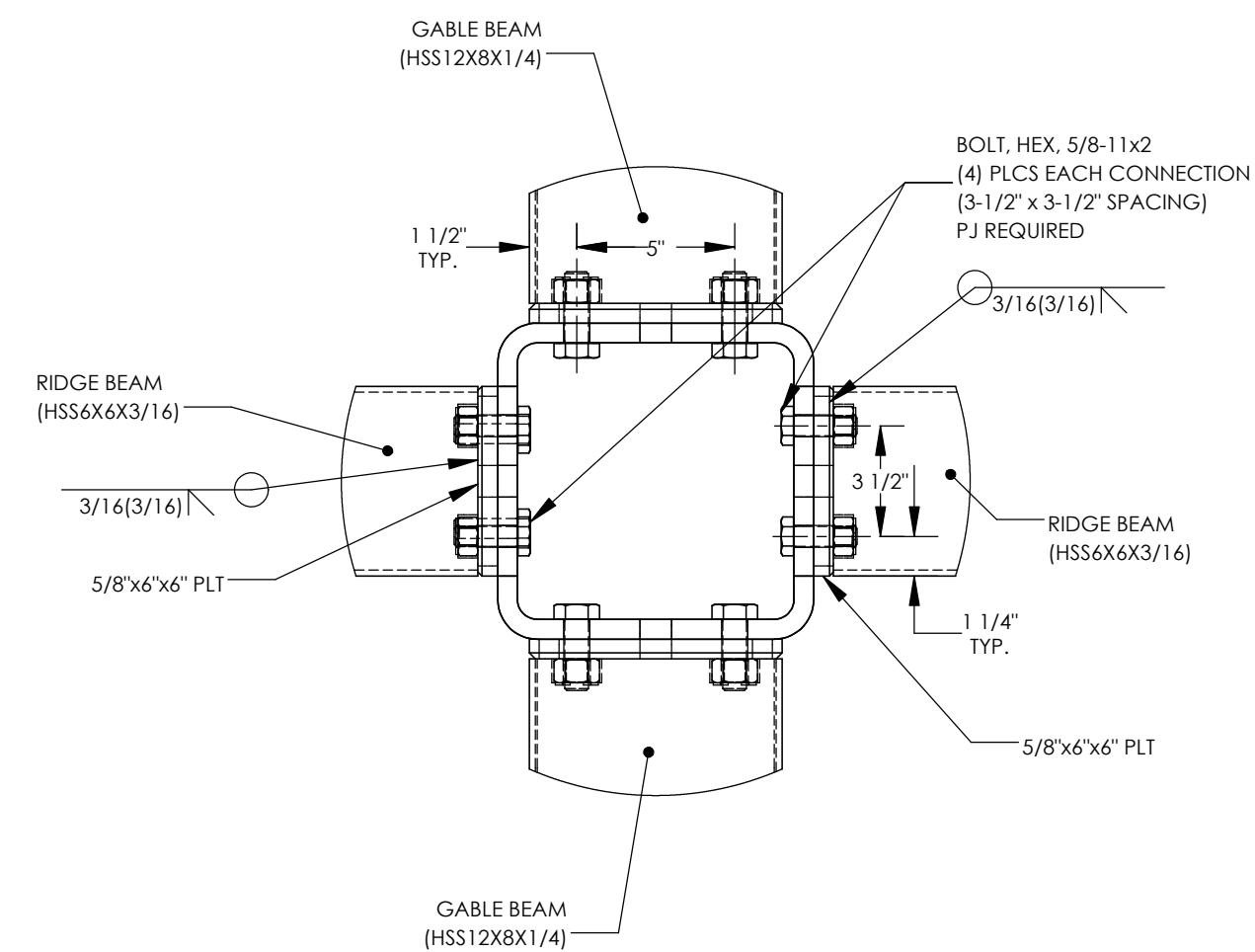
ITEM	QTY.	PART NO.	DESCRIPTION	MATERIAL	WEIGHT
18	2	-	R-BEAM ASM	HSS6X6X3/16	287.26
17	2	-	END R-BEAM ASM	HSS6X6X3/16	154.14
16	6	-	C-TUBE ASM	HSS10X10X5/8	143.92
15	8	-	SIDE PURLIN ASM	HSS6X4X3/16	234.29
14	2	-	CORNER PURLIN ASM	HSS6X4X3/16	136.79
13	2	-	CORNER PURLIN ASM	HSS6X4X3/16	193.62
12	2	-	CORNER PURLIN ASM	HSS6X4X3/16	136.94
11	2	-	CORNER PURLIN ASM	HSS6X4X3/16	193.78
10	2	-	END PURLIN ASM	HSS6X4X3/16	110.56
9	2	-	END PURLIN ASM	HSS6X4X3/16	224.23
8	6	-	GABLE BEAM ASM	HSS12X8X1/4	559.76
7	4	-	HIP BEAM ASM	HSS8X8X3/16	431.12
6	4	-	SIDE EAVE BEAM ASM	HSS6X6X3/16	284.96
5	2	-	CORNER EAVE BEAM ASM	HSS6X6X3/16	306.07
4	2	-	CORNER EAVE BEAM ASM	HSS6X6X3/16	306.00
3	2	-	END EAVE BEAM ASM	HSS6X6X3/16	413.48
2	6	-	SIDE COLUMN ASM	HSS10X8X1/4	425.36
1	4	-	CORNER COLUMN ASM	HSS10X8X1/4	433.63



NUT & BOLT RESTRAINING SYSTEM

HIP BEAM CONNECTION @ COLUMN

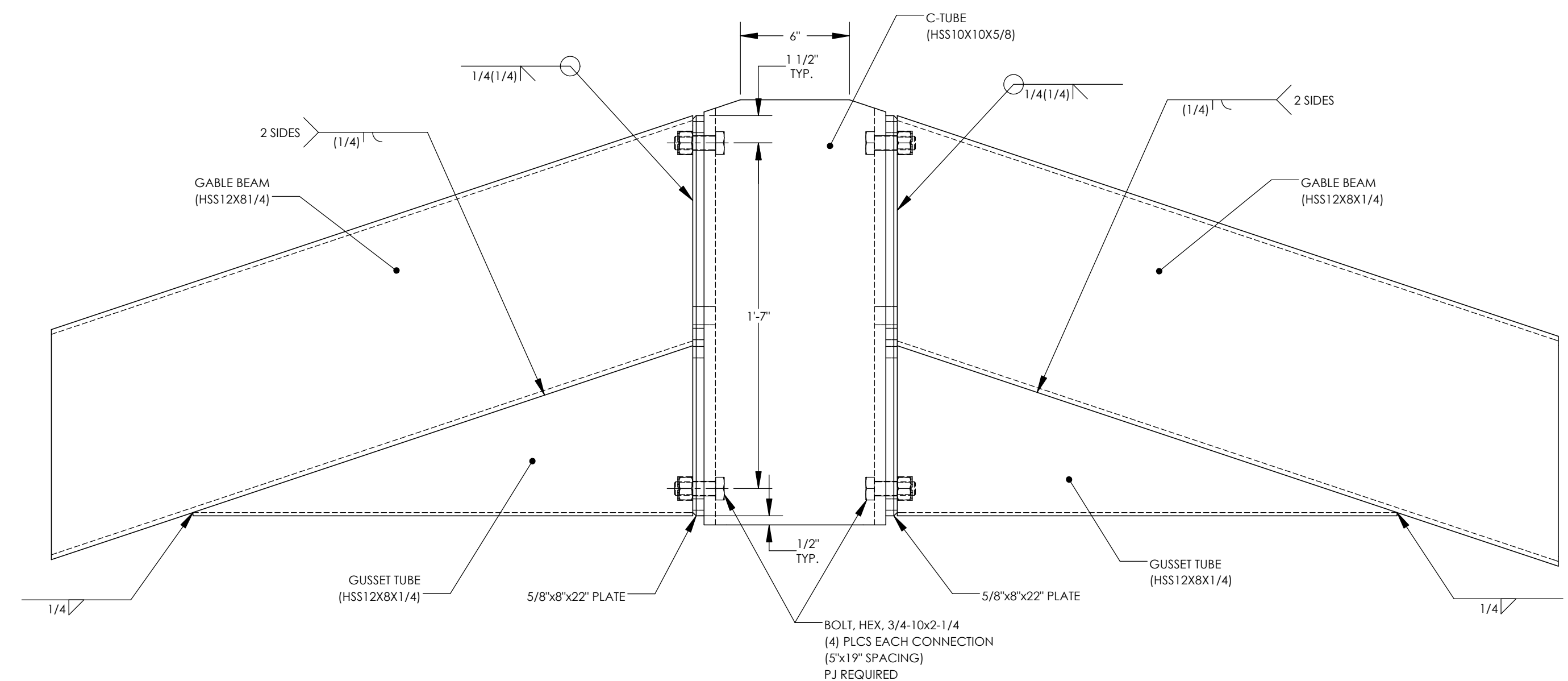
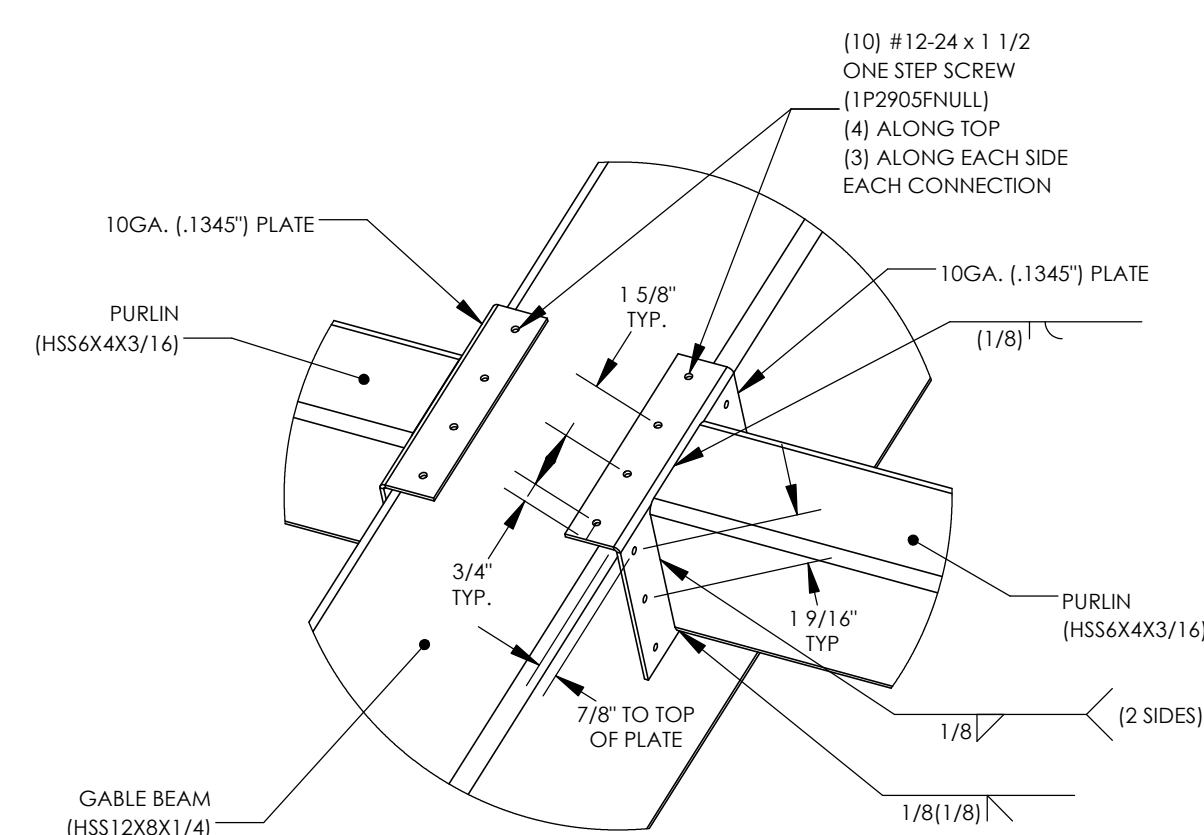
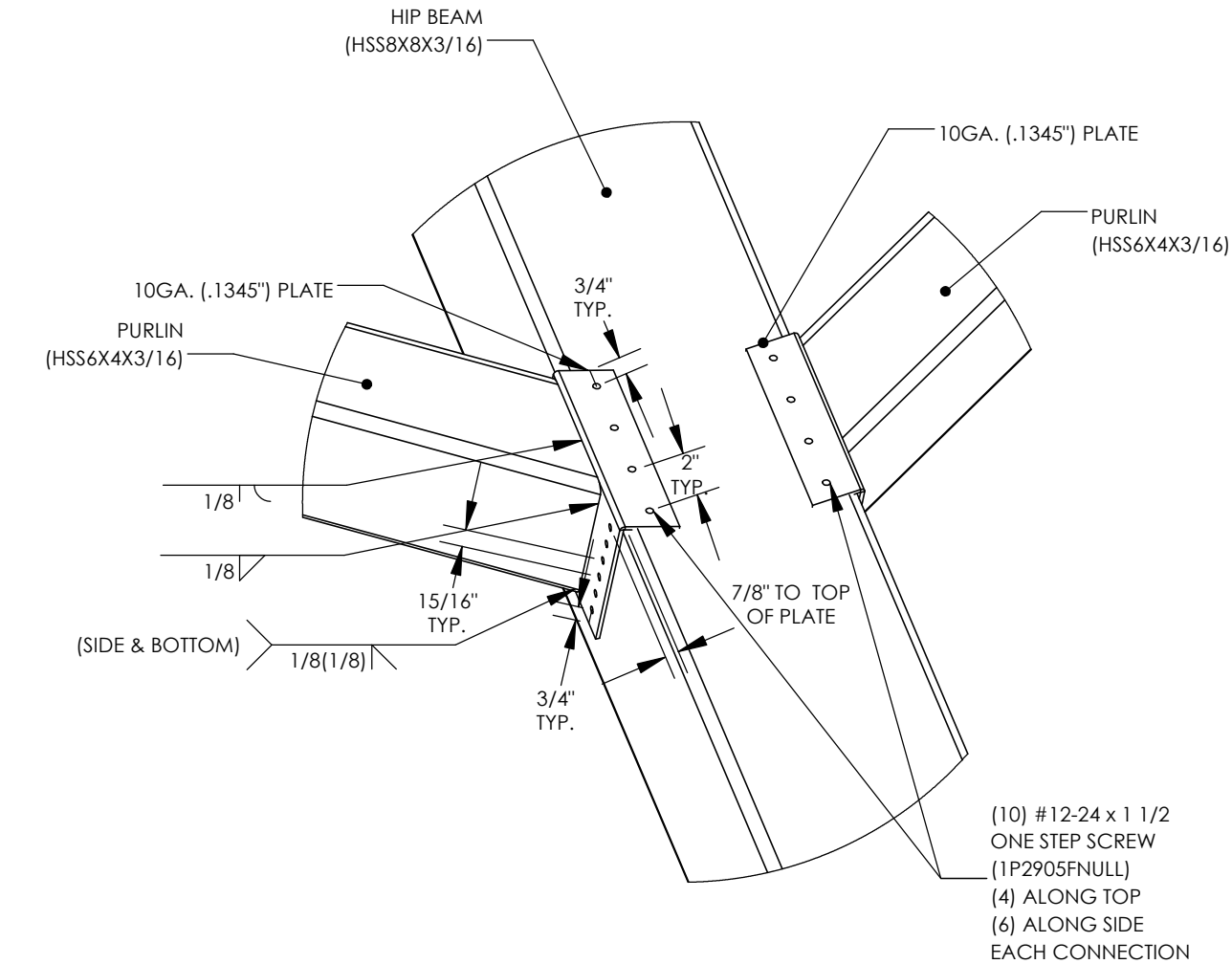
GABLE BEAM CONNECTION @ COLUMN



RIDGE BEAM CONNECTION @ COMPRESSION TUBE

EAVE BEAM CONNECTION @ HIP BEAM

EAVE BEAM CONNECTION @ GABLE BEAM



PURLIN CONNECTION @ HIP BEAM

PURLIN CONNECTION @ GABLE BEAM

GABLE BEAM CONNECTION @ COMPRESSION TUBE

STATE APPROVALS-SITE

SUITE B,
CAMERON PARK, CA 92382
500.677.0010



poligon

PORTER



HIP BEAM CONNECTION @ COMPRESSION TUBE

4

STATE APPROVALS-PC

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121213 PC
REVIEWED FOR
S ☒ FLS ☒ ACS ☒ CG ☐
DATE: 7/18/2023

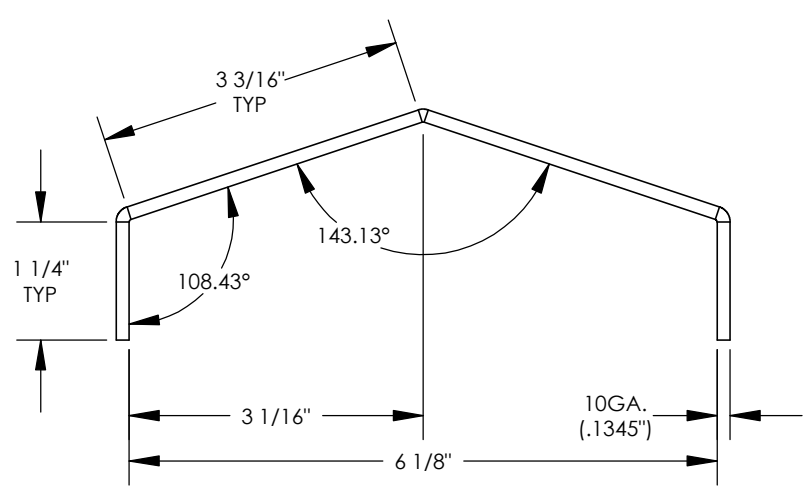
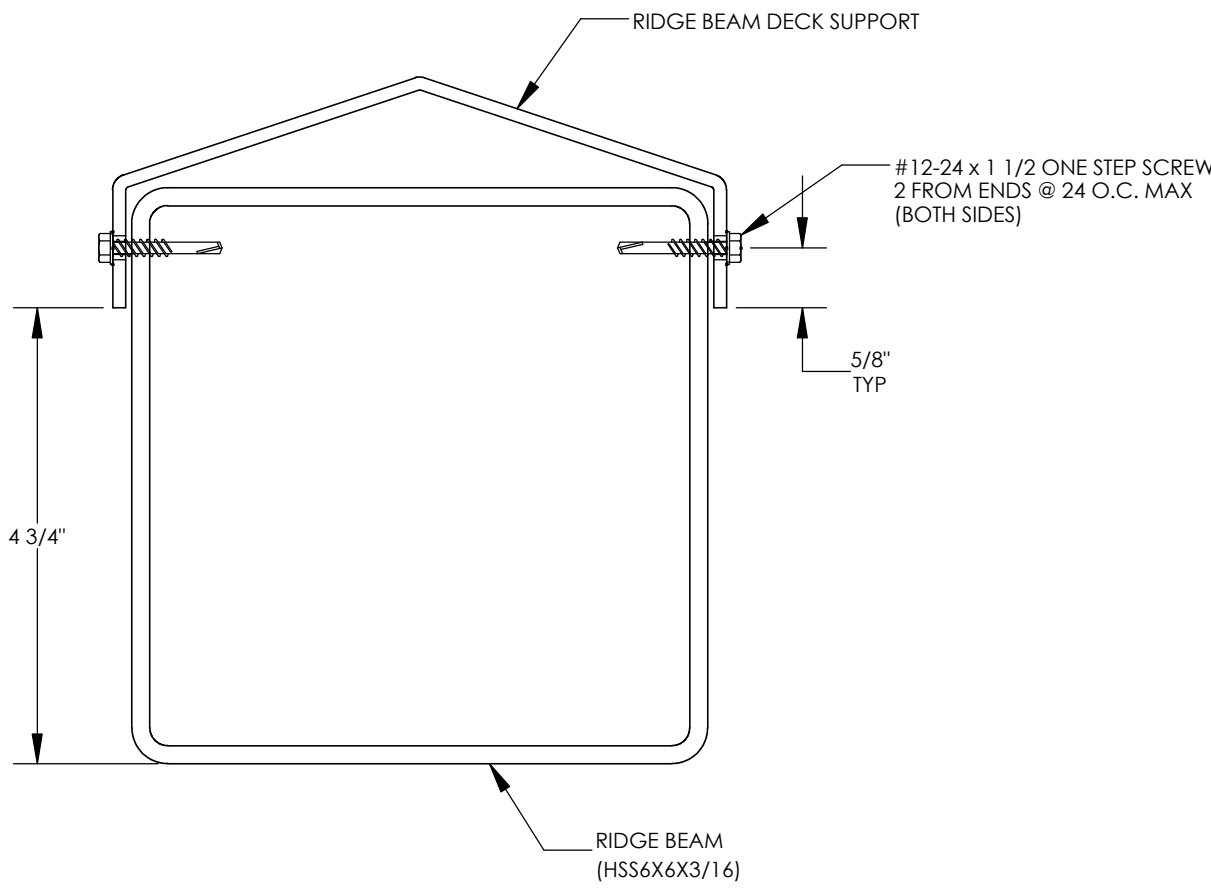
**PRE-CHECK (PC)
DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT
APPLICATION FOR
CONSTRUCTION IS REQUIRED.**

FRAME CONNECTION DETAILS

RAM4.2

HIP ROOF - RAM 30

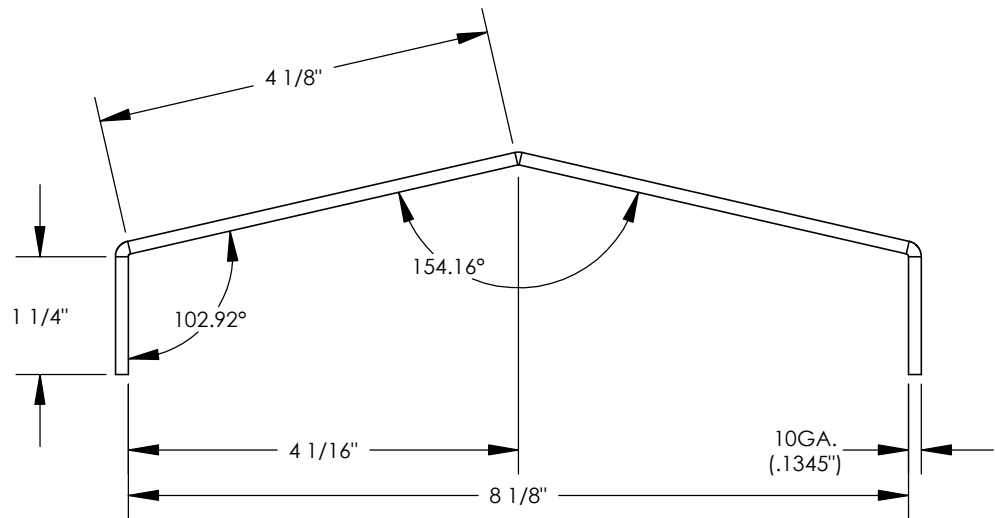
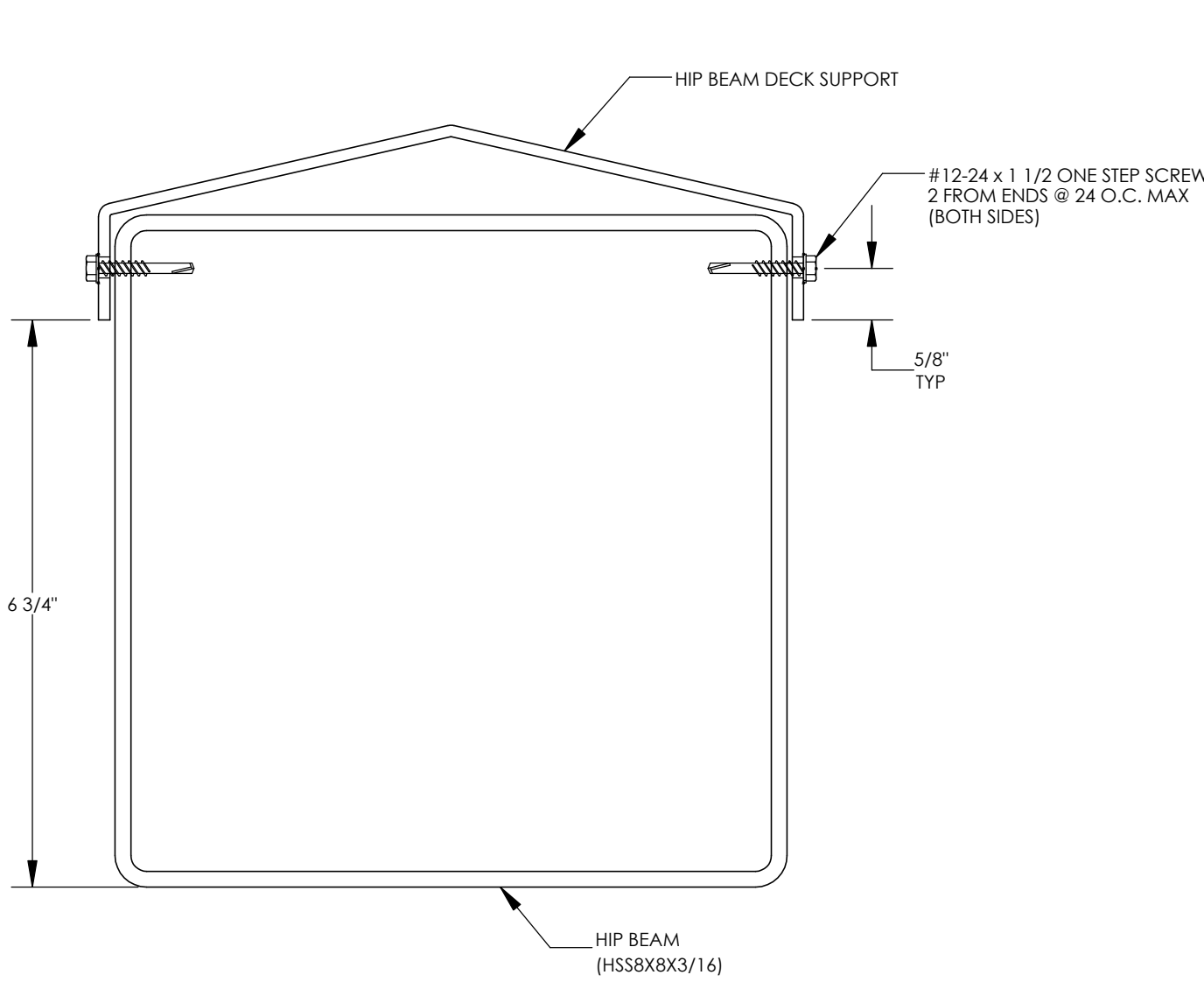
10



RAM 30 - RIDGE
Fy = 36 KSI
A = 1.231 IN^2
Ix = 1.149 IN^4
Iy = 6.272 IN^4
Sx = 0.771 IN^3
Sy = 1.962 IN^3

RIDGE BEAM DECK SUPPORT DETAIL

11



RAM 30 - HIP
Fy = 36 KSI
A = 1.484 IN^2
Ix = 1.341 IN^4
Iy = 12.353 IN^4
Sx = 0.886 IN^3
Sy = 2.943 IN^3

HIP BEAM DECK SUPPORT DETAIL

12

STATE APPROVALS-SITE

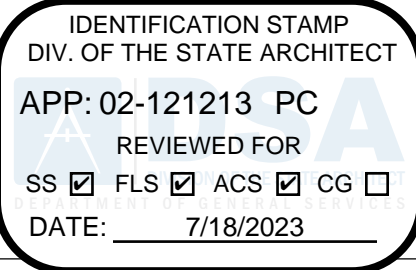
4033 P. A2A, GOLDEN GATE, CIRCLE
SUITE B,
CAMERON TX, TX, 75822
500.877.0016



polygon
PORTER
ARCHITECTS



STATE APPROVALS-PC

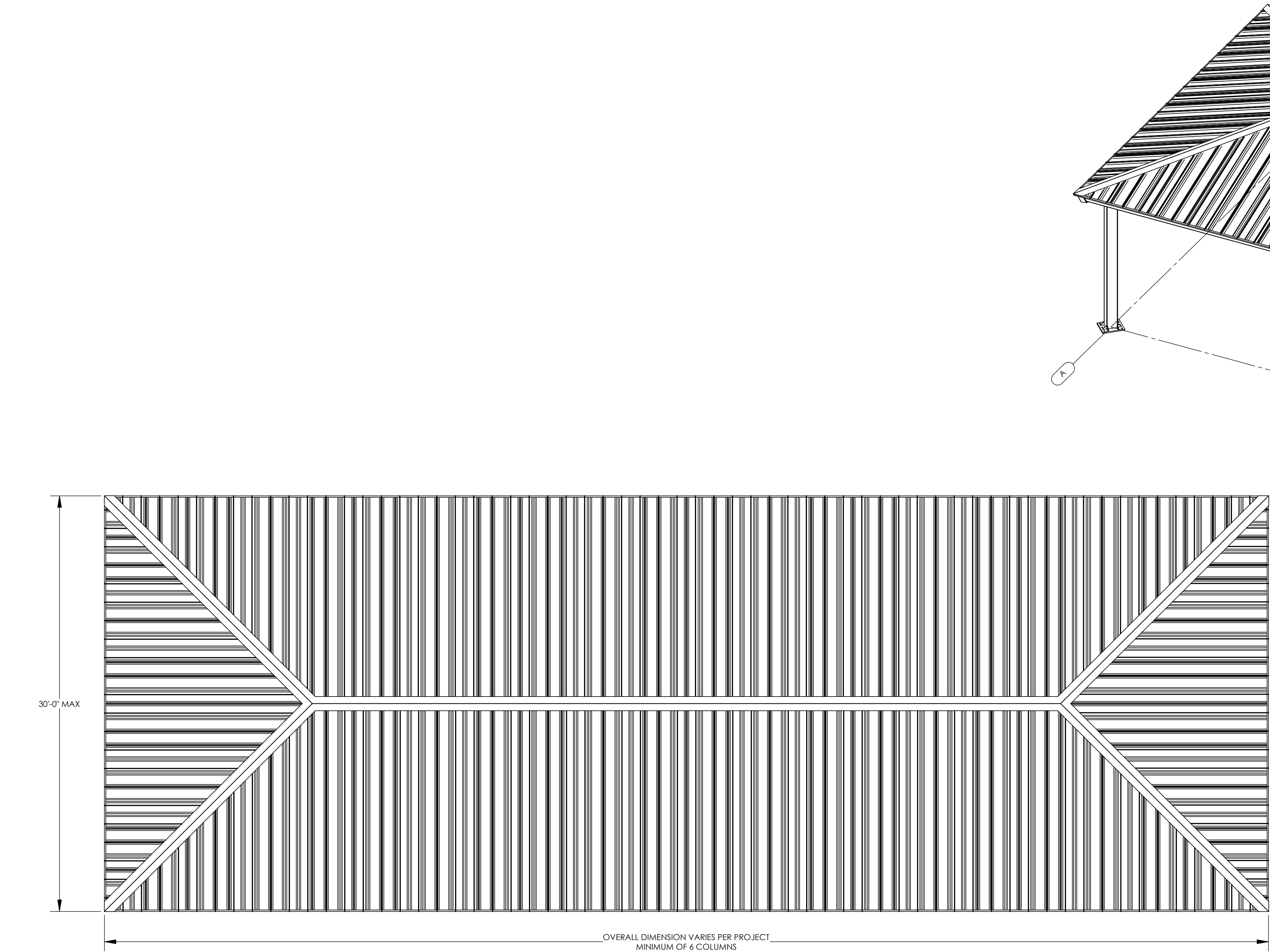


PRE-CHECK (PC)
DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT
APPLICATION FOR
CONSTRUCTION IS REQUIRED.

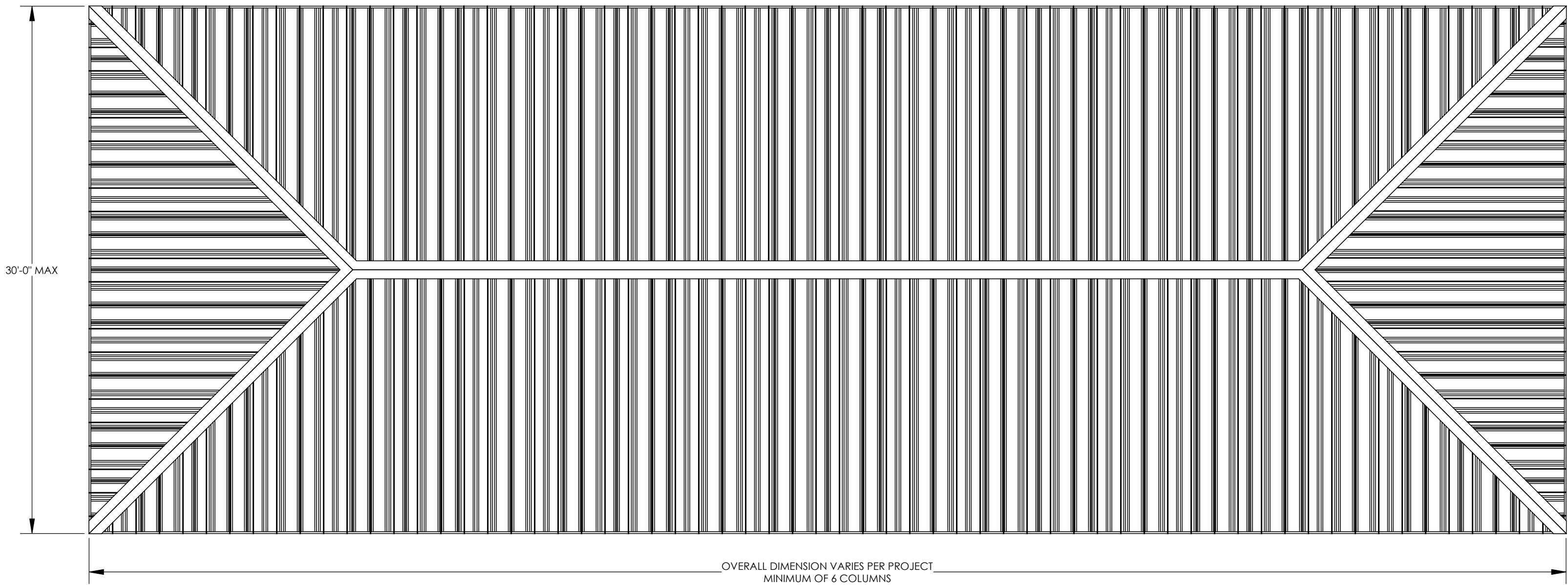
SECTION DETAILS

HIP ROOF - RAM 30

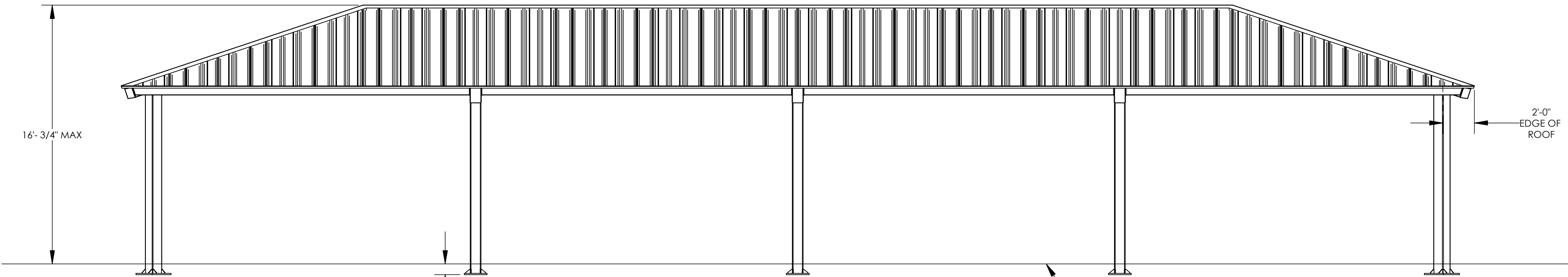
RAM4.3



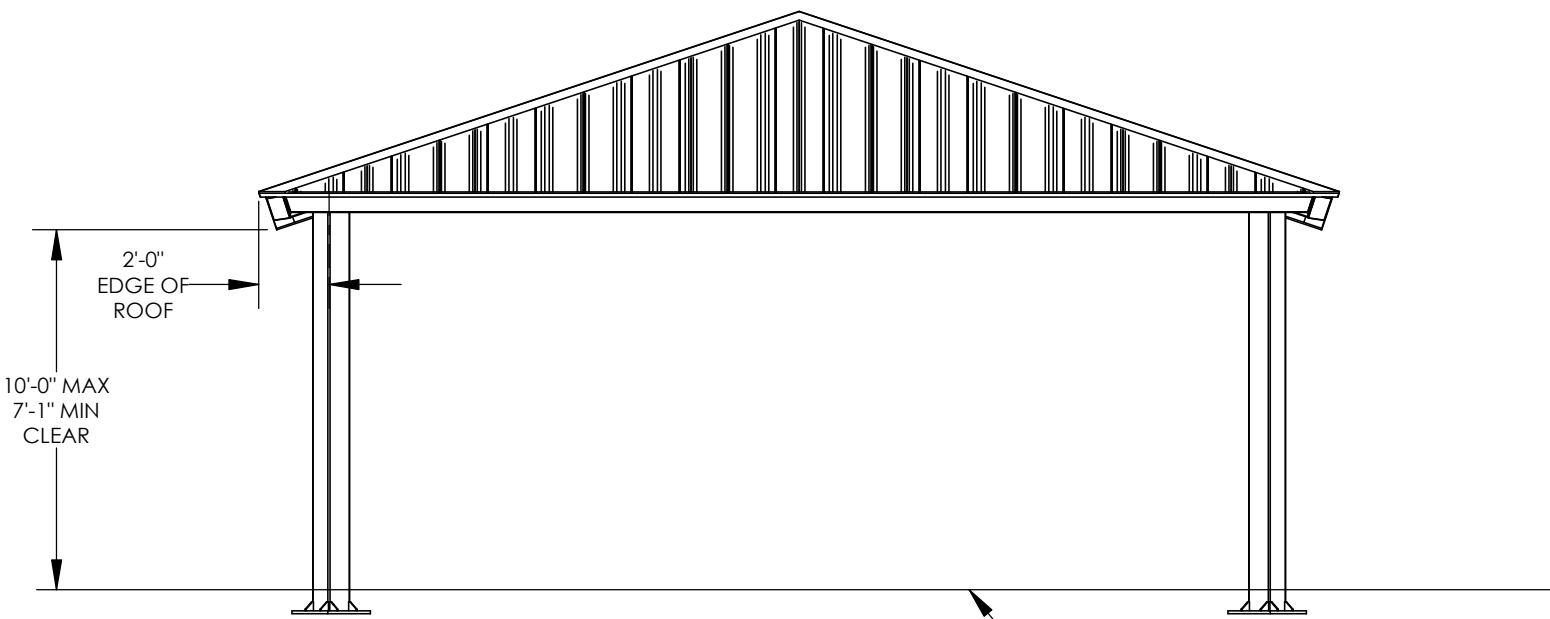
ISOMETRIC VIEW
SCALE: 3/16" = 1'-0"



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



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



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

STATE APPROVALS-SITE

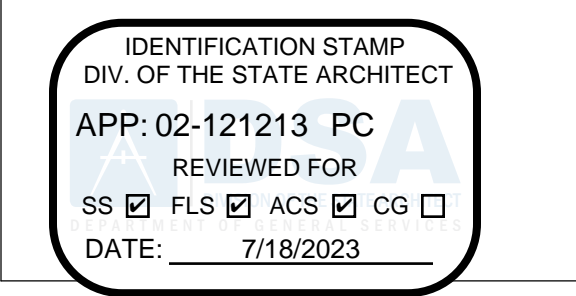
4083 P. AZA, GOLDEN RAIL, DREXEL
SUITE B,
CAMERON PARK, CA 95822
530.877.0016



polygon
PORTER
ARCHITECTS



STATE APPROVALS-PC



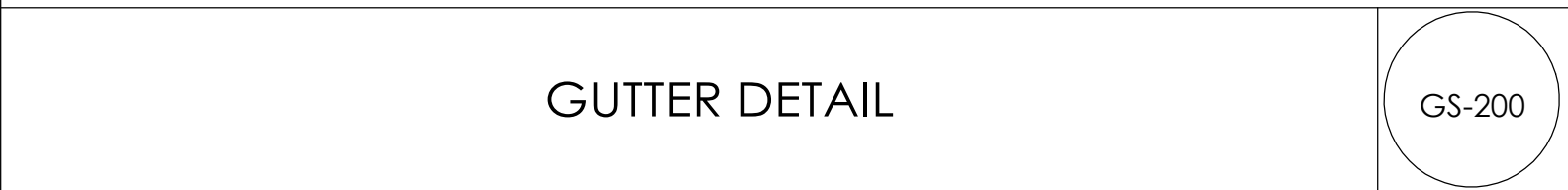
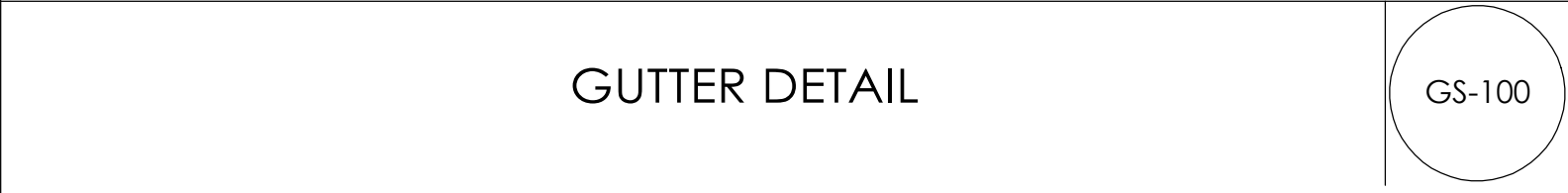
PRE-CHECK (PC)
DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT
APPLICATION FOR
CONSTRUCTION IS REQUIRED.

ARCHITECTURAL
VIEWS
HIP ROOF - RAM 30

RAM5.1

<div><div><div>MULTI-RIB NOTES:</div><div>THE DETAILS SHOWN ARE SUGGESTIONS OR GUIDELINES ON HOW TO ERECT THE SYSTEMS. THE INFORMATION SHOWN IS ACCURATE, BUT IT IS NOT INTENDED TO COVER ALL INSTANCES, BUILDING REQUIREMENTS, DESIGNS OR CODES. THE DETAILS MAY REQUIRE CHANGES OR REVISIONS DUE TO FIELD CONDITIONS.</div><div>IT SHALL BE THE RESPONSIBILITY OF THE ERECTOR TO ENSURE THAT THE DETAILS MEET PARTICULAR BUILDING REQUIREMENTS AND TO ASSURE ADEQUATE WATER TIGHTNESS.</div><div>THE ERECTOR SHOULD THOROUGHLY FAMILIARIZE HIMSELF/HERSELF WITH ALL ERECTION INSTRUCTIONS BEFORE STARTING WORK.</div><div>THE PANELS SHOULD BE INSTALLED PLUMB, STRAIGHT, AND ACCURATELY TO THE ADJACENT WORK.</div><div>FLASHING AND TRIM SHALL BE INSTALLED TRUE, AND IN PROPER ALIGNMENT, WITH ANY EXPOSED FASTENERS EQUALLY SPACED FOR THE BEST APPEARANCE.</div><div>SEALANT SHALL BE FIELD APPLIED ON DRY, CLEAN SURFACES. SOME FIELD CUTTING AND FITTING OF PANELS AND FLASHING IS TO BE EXPECTED BY THE ERECTOR AND MINOR FIELD CORRECTIONS ARE A PART OF NORMAL ERECTION WORK.</div><div>WORKMANSHIP SHALL BE OF THE BEST INDUSTRY STANDARDS AND INSTALLATION SHALL BE PERFORMED BY EXPERIENCED METAL CRAFTSMEN.</div><div>METAL SHAVINGS FROM DRILLING OR INSTALLATION OF ROOF FASTENERS MUST BE CAREFULLY REMOVED FROM THE ROOF BY BRUSHING OR SWEEPING AT THE END OF EACH DAY DURING INSTALLATION. SHAVINGS LEFT ON THE ROOF WILL QUICKLY RUST AND STAIN THE ROOF FINISH.</div><div>COVER ACCESS HOLES WITH GRACE ICE AND WATER SHIELD BEFORE ATTACHING ROOF DECKING.</div><div>METAL ROOFING PRODUCT AND INSTALLATION SHALL MEET ALL REQUIREMENTS OF UL 580.</div></div><div><div>STATE APPROVALS-SITE</div><div><div>4035 PASEO GOLDEN GATE DRIVE SUITE B CAMERON PARK, CA 95982 (916) 877-0016</div><div></div><div><div><div>poligon</div><div>PORTER</div></div><div>4 PLACES ONLY</div></div><div><div>REGISTERED PROFESSIONAL ENGINEER JESSICA E. NAPER No. S5478 STRUCTURAL STATE OF CALIFORNIA</div><div><i>Jessica Napier</i></div></div></div><div>STATE APPROVALS-PC</div><div><div>IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 02-121213 PC REVIEWED FOR SS <input checked="" type="checkbox"/> FLS <input checked="" type="checkbox"/> ACS <input checked="" type="checkbox"/> CG <input type="checkbox"/> DATE: 7/18/2023</div></div></div></div>			
<div><p>ISOMETRIC VIEW SCALE: 3/16" = 1'-0"</p></div>		<div><div>PRE-CHECK (PC) DOCUMENT CODE: 2022 CBC A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.</div><div>ROOF CONNECTION DETAILS</div><div>RAM6.0</div></div>	
<div><div><div>CORNER DETAIL</div><div>MR-900</div></div><div></div></div>		<div><div><div>RIDGE DETAIL</div><div>MR-500</div></div><div></div></div>	
<div><div><div>PURLIN DETAIL</div><div>MR-600</div></div><div></div></div>		<div><div><div>ROOF FASTENER TIGHTENING</div><div>MR-950</div></div><div><p>SEALING MATERIAL SLIGHTLY VISIBLE AROUND METAL WASHER</p><p>SEALING MATERIAL NOT VISIBLE AROUND METAL WASHER</p><p>SEALING MATERIAL DEFORMED BEYOND EDGE OF METAL WASHER</p></div></div>	
<div><div><div>EAVE DETAIL</div><div>MR-102</div></div><div></div></div>		<div><div><div>TRUSS DETAIL</div><div>MR-300</div></div><div></div></div>	
<div><div><div>MR ROOF DECK SECTION PROPERTIES</div><div>MR-951</div></div><div></div></div>			

<div>STANDING SEAM INSTALLATION NOTES:</div> <div>THE DETAILS SHOWN ARE SUGGESTIONS OR GUIDELINES ON HOW TO ERECT THE SYSTEMS. THE INFORMATION SHOWN IS ACCURATE, BUT IT IS NOT INTENDED TO COVER ALL INSTANCES. BUILDING REQUIREMENTS, DESIGNS OR CODES, THE DETAILS MAY REQUIRE CHANGES OR REVISIONS DUE TO FIELD CONDITIONS.</div> <div>IT SHALL BE THE RESPONSIBILITY OF THE ERECTOR TO ENSURE THAT THE DETAILS MEET PARTICULAR BUILDING REQUIREMENTS AND TO ASSURE ADEQUATE WATER TIGHTNESS.</div> <div>THE ERECTOR SHOULD THOROUGHLY FAMILIARIZE HIMSELF/HERSELF WITH ALL ERECTION INSTRUCTIONS BEFORE STARTING WORK.</div> <div>THE PANELS SHOULD BE INSTALLED PLUMB, STRAIGHT, AND ACCURATELY TO THE ADJACENT WORK.</div> <div>FLASHING AND TRIM SHALL BE INSTALLED TRUE, AND IN PROPER ALIGNMENT, WITH ANY EXPOSED FASTENERS EQUALLY SPACED FOR THE BEST APPEARANCE.</div> <div>SEALANT SHALL BE FIELD APPLIED ON DRY, CLEAN SURFACES. SOME FIELD CUTTING AND FITTING OF PANELS AND FLASHING IS TO BE EXPECTED BY THE ERECTOR AND MINOR FIELD CORRECTIONS ARE A PART OF NORMAL ERECTION WORK.</div> <div>WORKMANSHIP SHALL BE OF THE BEST INDUSTRY STANDARDS AND INSTALLATION SHALL BE PERFORMED BY EXPERIENCED METAL CRAFTSMEN.</div> <div>METAL SHAVINGS FROM DRILLING OR INSTALLATION OF ROOF FASTENERS MUST BE CAREFULLY REMOVED FROM THE ROOF BY BRUSHING OR SWEEPING AT THE END OF EACH DAY DURING INSTALLATION. SHAVINGS LEFT ON THE ROOF WILL QUICKLY RUST AND STAIN THE ROOF FINISH.</div> <div>COVER ACCESS HOLES WITH GRACE ICE AND WATER SHIELD BEFORE ATTACHING ROOF DECKING</div> <div>METAL ROOFING PRODUCT AND INSTALLATION SHALL MEET ALL REQUIREMENTS OF ICC-ES REPORT ESL-1082.</div>				<div>STATE APPROVALS-SITE</div> <div>4035 P. AZA, GOLD CREEK, DETROIT SUITE B, CAMERON PARK, CA 95822 907.877.0016</div> <div><div>GHDI</div><div><div>poligon</div><div>PORTER</div></div><div><div>REGISTERED PROFESSIONAL ENGINEER</div><div>JOSEPH E. HANER</div><div>No. S5498</div><div>STRUCTURAL</div><div>STATE OF CALIFORNIA</div></div></div> <div>STATE APPROVALS-PC</div> <div><div>IDENTIFICATION STAMP</div><div>DIV. OF THE STATE ARCHITECT</div><div>APP: 02-121213 PC</div><div>REVIEWED FOR</div><div>SS <input checked="" type="checkbox"/> FLS <input checked="" type="checkbox"/> ACS <input checked="" type="checkbox"/> CG <input type="checkbox"/></div><div>DATE: 7/18/2023</div></div> <div>PRE-CHECK (PC) DOCUMENT</div> <div>CODE: 2022 CBC</div> <div>A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.</div> <div>ROOF CONNECTION DETAILS</div> <div>RAM6.1</div> <div>HIP ROOF - RAM</div>			
<div>ISOMETRIC VIEW</div> <div>SCALE: 3/16" = 1'-0"</div>				<div>NOTES:</div> <div>1. CLIPS MUST BE PROVIDED BY ROOF PANEL MANUFACTURER AS PART OF ROOF SYSTEM.</div> <div>2. MATERIAL THICKNESS MUST BE 18 GAGE (0.048"-0.053")</div>			
<div>SS-102</div> <div>CORNER DETAIL</div>		<div>SS-900</div> <div>CLIP DETAIL</div>		<div>SS-CLP</div>			
<div>2013C</div> <div>#12-24 X 1-1/4" SELF DRILLING SCREW (1) @ EACH SIDE OF RIB</div> <div>BUTYL TAPE (ALONG TOP, BOTTOM, AND ENDS)</div> <div>#12-14 X 3/4" SELF DRILLING SCREW 12" O.C.</div> <div>STANDING SEAM PANEL</div> <div>C-CLOSURE (TRIM TO FIT)</div> <div>RIDGE CAP (6" OVERLAP)</div> <div>RIDGE BEAM</div> <div>RIDGE CAP</div>		<div>2013C</div> <div>STANDING SEAM PANEL</div> <div>#10x1" PANCAKE HEAD SELF-DRILLING SCREWS</div> <div>ROOF CLIP</div> <div>PURLIN AND/OR TAIL</div>		<div>TRIM THE RIBS BACK 1-1/2"</div> <div>BEND DOWN</div> <div>1 1/2"</div>			
<div>2013C</div> <div>RIDGE DETAIL</div>		<div>SS-500</div> <div>PURLIN DETAIL</div>		<div>SS-600</div> <div>HEMMING DETAIL</div>			
<div>2013C</div> <div>STANDING SEAM PANEL</div> <div>#10x1" PANCAKE HEAD SELF-DRILLING SCREWS</div> <div>ROOF CLIP</div> <div>EAVE BEAM</div> <div>FIELD BEND PANEL SLIDE AROUND CLEAT</div> <div>OFFSET CLEAT (OVERHANG 1")</div>		<div>2013C</div> <div>HIP CAP (6" OVERLAP)</div> <div>C-CLOSURE</div> <div>HIP CAP</div> <div>BUTYL TAPE (ALONG TOP, BOTTOM, AND SIDES)</div> <div>#12-14 X 3/4" SELF DRILLING SCREW 12" O.C.</div> <div>#12-24 X 1-1/4" SELF DRILLING SCREW EACH SIDE OF RIB</div> <div>STANDING SEAM PANEL</div> <div>TRUSS</div> <div>NOTE: TRIM C-CLOSURE TO FIT BETWEEN RIBS. ATTACH C-CLOSURE TO ROOF PANELS BEFORE ATTACHING HIP CAP.</div>		<div>3/8"</div> <div>16"</div> <div>1 3/4"</div> <div>1/8"</div> <div>GENERAL GAGE = 22 FY = 50 KSI</div> <div>TOP IN COMPRESSION Ix = 0.1200 IN^4 Se = 0.0803 IN^3 Ma = 2.4056 IN-KIPS</div> <div>BOTTOM IN COMPRESSION Ix = 0.0570 IN^4 Se = 0.0729 IN^3 Ma = 1.7220 IN-KIPS</div>			
<div>SS-200</div> <div>EAVE DETAIL</div>		<div>SS-300</div> <div>TRUSS DETAIL</div>		<div>SS-950</div> <div>ROOF DECK SECTION PROPERTIES</div>			

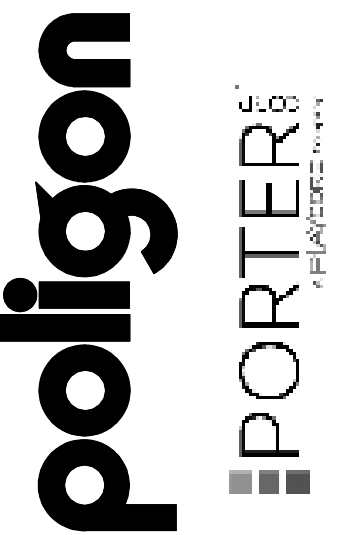


1. PREFABRICATED GUTTER SYSTEM IS ATTACHED TO THE STRUCTURE AFTER ROOF IS INSTALLED.
2. DETAILED INSTALLATION INSTRUCTIONS ARE SHIPPED WITH THE STRUCTURE.
3. DOWNSPOUTS REQUIRED AT EACH COLUMN.

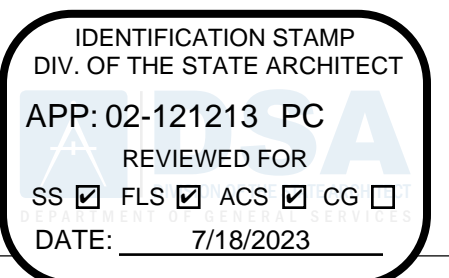


1. MAXIMUM ONE CUTOUT PERMITTED IN EACH MEMBER.
2. CUTOUTS CAN BE PLACED ON ANY SIDE OF A MEMBER.
3. CUTOUTS CAN BE PLACED ALONG MEMBERS AS INDICATED IN THE DETAILS.
4. ARCHITECTS REQUESTING CUTOUTS MUST MARKUP APPROVED PC DRAWINGS TO LOCATE CUTOUTS FOR APPROVAL AND FABRICATION.

STATE APPROVALS-SITE



STATE APPROVALS-PC



**PRE-CHECK (PC)
DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT
APPLICATION FOR
CONSTRUCTION IS REQUIRED.**

MISC DESIGN
OPTIONS

HIP ROOF - RAM

RAM7.0