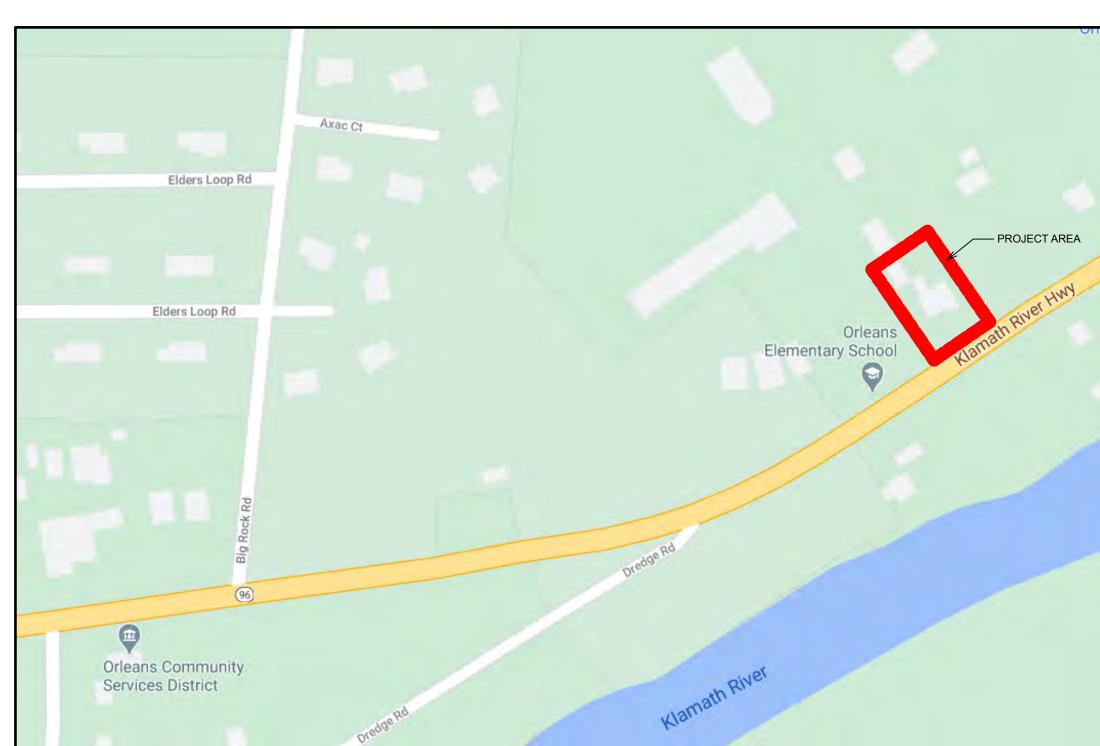
PROPOSED RENOVATION OF:

KARUK INFANT/ TODDLER CENTER

38010 HIGHWAY 96 ORLEANS, CA 95556

PROJECT NUMBER: 20-3480



VICINITY MAP

PROJECT TEAM

64236 SECOND AVENUE HAPPY CAMP, CA 96039

2023 6th STREET WEST ASHLAND, WI 54806

TRINITY VALLEY CONSULTING ENGINEERS INC.

67 WALNUT WAY

WILLOW CREEK, CA 95573 CONSULTANT:

PLUMBING DESIGNER: N/A

HVAC ENGINEER:

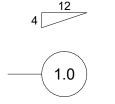
ELECTRICAL ENGINEER: N/A

SYMBOLS



INTERIOR ELEVATION TAG STEP/ELEVATION CHANGE

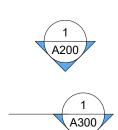




ROOF SLOPE

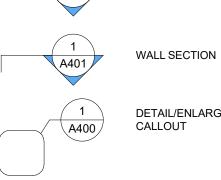
WALL TYPE (SEE PLAN OR

LEGEND FOR ADD. INFO)



BUILDING SECTION

BUILDING ELEVATION



DETAIL/ENLARGED PLAN

PROJECT LOCATION ORLEANS, CA

PROJECT DATA

KARUK INFANT / TODDLER CENTER

ORLEANS, CA 95556

THE KARUK TRIBE

THE PROJECT CONSISTS OF THE REMODEL OF AN EXISTING

RESIDENCE INTO A DAYCARE FACILITY. EXTERIOR COVERED

CALIFORNIA CODE OF REGULATIONS PUBLIC SAFETY

2014 NFPA 58 LIQUEFIED PETROLEUM GAS CODE

OVER 50,000 CF YES

AUTOMATIC FIRE ALARM SYSTEM

CONSTRUCTION WASTE

MANAGEMENT PLAN (CWM)

FIRE SAFETY AND EVACUATION

PLAN, TO BE PROVIDED AND POSTED

STATE FIRE MARSHAL REGULATIONS

PROJECT ADDRESS: 38010 HIGHWAY 96

PARCEL NUMBERS: 529-121-003

CODE INFORMATION:

CONST TYPE:

BLD VOLUME:

OF STORIES:

SPRINKLERED:

FIRE ALARM SYS:

DEFERRED SUBMITTALS:

BLD GROSS AREA:

CODES: 2019 CA BUILDING CODE (CBC)

CALIFORNIA FIRE CODE

CALIFORNIA PLUMBING CODE

CALIFORNIA ELECTRICAL CODE

CALIFORNIA MECHANICAL CODE

OCCUPANCY GROUP: GROUP E - EDUCATION DAYCARE

1 STORY

OCCUPANT LOAD: (E) = 20 CHILDREN, 2 STAFF

OWNER:

PLANS AT THE JOB SITE AT ALL TIMES. CONTRACTORS BEFORE ANY WORK COMMENCES.

CURRENTI Y IN FEFECT

STATE BUILDING, PLUMBING, ELECTRICAL, AND HVAC CODE

ALL CONTRACT DOCUMENTS FOR THEIR ACCURACY AND PROCEEDING WITH CONSTRUCTION IF THERE ARE ANY

PROCEEDING WITH THE WORK IN QUESTION OR RELATED DESIGN PROFESSIONAL FROM ANY CLAIM OR SUIT

MATERIALS, TOOLS, FEES, INSURANCE, TAXES, ETC. FOR PLUMBING AND ELECTRICAL CONSTRUCTION, AS APPLICABLE,

PERFORMANCE PERMITTED AS APPROVED BY DESIGN PROFESSIONAL IN CHARGE ALL MATERIALS, SUPPLIES, AND EQUIPMENT SHALL BE

LOCAL CODES AND REQUIREMENTS, LOCATED PER PLAN.

STRUCTURE IS BUILT. ALL PROPERTY LINES ARE ASSUMED UNLESS A CERTIFIED SURVEY MAP HAS BEEN PROVIDED FOR THE PROPERTY.

THE CONTRACTOR IS TO HAVE ALL THE UTILITY LINES VERIFIED BY THE APPROPRIATE UTILITY LOCATING SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE TO HAVE A LOCATE DONE PRIOR TO BREAKING OF GROUND.

ALL DAMAGE TO EXISTING DRIVEWAYS, ROADWAYS, STREETS, CONCRETE SIDEWALKS, LAWNS, ETC. MUST BE RESTORED TO

THE GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE DESIGN, ADEQUACY, AND SAFETY OF ERECTING BRACING. SHORING AND TEMPORARY SUPPORTS, ETC. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE PRIOR TO THE APPLICATION OF ALL SHEAR WALLS, ROOF SHEATHING, STRUCTURAL ELEMENTS

LINES, FREE OF SMEARS OR OVERLAPS; INSTALL EXPOSED MATERIALS APPROPRIATELY LEVEL, PLUMB AND AT ACCURATE PUBLISHED BY THAT TRADE, EXCEPT IN THE CASE WHERE THE

SCHEDULE FOR MATERIALS NOT CALLED OUT. 25. IF APPLICABLE, THE FIRE RATING OF WALLS AND CEILINGS MUST BE MAINTAINED BEHIND ALL INSTALLED FIXTURES (BATH UNITS, VANITIES, CEILING FANS, ELECTRICAL BOXES, EXHAUST

MAINTENANCE DATAAND ALL MANUFACTURER'S, INSTALLER'S AND APPLICATOR'S GUARANTEES, BONDS, WARRANTIES AND SERVICE INSTRUCTIONS CONFIRM WINDOW OR DOOR NUMBER WITH MFR. AND SITE

29. CONTRACTOR TO VERIFY R.O. REQUIREMENTS FOR WINDOWS & EXTERIOR DOORS WITH WINDOW MANUFACTURER PRIOR TO

2015, NATIONAL FUEL GAS CODE.

GENERAL NOTES

A PRE-CONSTRUCTION CONFERENCE WILL BE HELD WITH THE ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH THE

ALL STATE AND LOCAL BUILDING PERMITS WILL BE OBTAINED BY THE OWNER AND MUST BE POSTED AT THE JOB SITE BY THE

THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CHECKING CONFIRMING THAT WORK IS BUILDABLE AS SHOWN BEFORE QUESTIONS REGARDING THESE OR OTHER COORDINATION QUESTIONS, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT BEFORE THE OWNER SHALL INDEMNIFY AND HOLD HARMLESS THE

WHATSOEVER ARISING FROM, OR ALLEGED TO HAVE ARISEN FROM. THE CONTRACTOR'S PERFORMANCE OR THE FAILURE OF THE CONTRACTOR'S WORK TO CONFORM TO THE DESIGN INTENT OF THE CONTRACT DOCUMENTS.

MATERIAL S/FINISHES/FTC PER ARCHITECTURAL DRAWINGS OR SPECIFICATION. SUBSTITUTIONS OF EQUAL QUALITY AND

INSTALLED AS PER MANUF. SPECIFICATIONS AND AS PER

THE DESIGN PROFESSIONAL WILL NOT HAVE CONTROL OVER. OR CHARGE OF, AND WILL NOT BE RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, SEQUENCE OR

ALL BUILDING SETBACKS ARE MEASURED FROM THE EAVE LINE OF THE BUILDING.

THE CONTRACTOR SHALL BE AWARE OF ALL PRIVATE UTILITIES LOCATIONS SUCH AS WATER, SEWER, AND GAS.

PROVIDE A MINIMUM OF 2% DRAINAGE SLOPE AWAY FROM THE ENTIRE PERIMETER OF THE BUILDING FOR THE FIRST 20 FEET,

PROFESSIONAL WORK: JOIN MATERIALS TO UNIFORM.

OF EACH TRADE SHALL MEET ALL NATIONAL STANDARDS CONTRACT DOCUMENTS ARE MORE STRINGENT WRITTEN DIMENSIONS TO PREVAIL OVER SCALING OF DRAWINGS. CONTRACTOR(S) TO VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND IMMEDIATELY NOTIFY

DESIGNER OF ANY DISCREPANCIES. ALL DIMENSIONS TO CENTER OF STUD WALLS, U.N.O. 23. SEE SITE PLAN FOR NOTES AND DIMENSIONS NOT SHOWN.

THE CONTRACTOR SHALL TAKE ABSOLUTE CARE TO PROTECT NEWLY INSTALLED MATERIALS, MILLWORK, BUILT-INS AND THE CONTRACTOR SHALL PROVIDE ALL OPERATING AND

CONDITIONS. ALL OPERABLE WINDOWS AND DOORS SHALL HAVE REMOVABLE SCREENS.

30. REFERENCE ELEVATIONS AND/OR BUILDING SECTIONS FOR

WINDOW OPERATIONS. . REFER TO ENGINEERED TRUSS DRAWINGS. IF APPLICABLE FOR PLACEMENT OF TRUSS COMPONENTS. CONTRACTOR IS TO FIELD VERIFY ALL TRUSS DIMENSIONS BEFORE PRODUCTION OF TRUSSES.

32. ALL GAS PIPING INSTALLATIONS SHALL COMPLY WITH NFPA 54-33. ALL DOORS 3 1/2" FROM NEAREST ADJ. STUD WALL, U.N.O.

INDEX TO DRAWINGS

AD200

A200

CG.2

TITLE SHEET LIFE SAFETY PLAN SITE PLAN DETAILED SITE PLAN DEMOLITION FLOOR PLAN DEMO ELEVATIONS FOUNDATION PLAN & DETAILS FLOOR PLAN & SCHEDULES **ROOF FRAMING PLAN & DETAILS ELEVATIONS** SECTION, FURNITURE PLAN INTERIOR ELEVATIONS & DETAILS KITCHEN DETAILS PLUMBING WASTE PLAN & RISER PLUMBING SUPPLY PLAN & RISER MECHANICAL / ELECTRICAL ELECT.RISER / SCHEDULE CALGREEN CHECKLIST CALGREEN CHECKLIST

N N

CALGREEN CHECKLIST

TITLE 24 BLD ENERGY REPORT

TITLE 24 BLD ENERGY REPORT

TITLE 24 BLD ENERGY REPORT

ADA NOTES

ADA NOTES

ADA NOTES

INFORMATION VISIBLE WITHIN BUILDING . DRAPES, CURTAINS, AND OTHER DECORATIVE MATERIALS THAT

WOULD TEND TO INCREASE A FIRE SHALL BE TREATED AND MAINTAINED IN A FLAME-RETARDANT CONDITION MAINTAIN AROUND AND ADJACENT TO SUCH BUILDING OR STRUCTURE A FIREBREAK MADE BY REMOVING AND CLEARING AWAY, FOR A DISTANCE OF NOT LESS THAN 30 FEET ON EACH SIDE THEREOF OR TO THE PROPERTY LINE, WHICHEVER IS NEARER, ALL FLAMMABLE VEGETATION OR OTHER

COMBUSTIBLE GROWTH. NO COMBUSTIBLE MATERIAL SHALL BE PLACED OR STORED WITHIN 10 FEET OF BUILDING. EGRESS DOORS SHALL BE READILY OPERABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT. THE UNLATCHING OF ANY DOOR OR LEAF SHALL NOT REQUIRE MORE THAN ONE OPERATION. MANUALLY OPERATED FLUSH BOLTS ON SURFACE BOLTS ARE

BIDDING NOTES

THE GENERAL CONTRACTOR SHALL INCLUDE IN THEIR BID TO PROVIDE A GRADING PLAN FOR THE PROPOSED SITE WORK FOR SUBMISSION TO THE HUMBOLDT COUNTY PLANNING AND BUILDING DEPARTMENT.

THE GENERAL CONTRACTOR SHALL INCLUDE IN THEIR BID TO PROVIDE A CONSTRUCTION WASTE MANAGEMENT PLAN FOR SUBMISSION TO THE HUMBOLDT COUNTY PLANNING AND BUILDING DEPARTMENT AND INCLUDE PROVISIONS IN THE BASE BID TO FOLLOW THE PLAN DURING CONSTRUCTION.

REFER TO 7.8 VE ITEMS FOR ADDITIONAL **CHANGES NOT INCLUDED IN THIS DRAWING**

T.L.P., A.D.E.

AS NOTED

JUNE 13, 2024

20-3480

201023 COUNTY SUBMITTAL

STOR.

TPO THK. T.O.

T.O.C. T.O.F.

T.O.R. T.O.S. T.O.W.

W.W.F.

W.F.

WDW. W/

W/O

SUSP. (D)



STANDARD ABBREVIATIONS

CONST.

		VIATIONS
ABOVE FINISH FLOOR ACOUSTICAL CEILING TILE	A.F.F.	CONTRACTOR
ACOUSTICAL CEILING TILE	ACT.	CONTROL JOINT
ADDITIONAL	ADD.	COURSES
ADJUSTABLE	ADJ.	CUBIC FOOT(AGE)
ALIGN WITH BELOW	A.W.B.	
ALTERNATE	ALT.	DETAIL
ALUMINUM	ALUM.	DIAMETER
AMERICAN DISABILITIES ACT		DIMENSION
APPROXIMATELY	APPROX.	DISPENSER
		DOOR
BASEMENT	BSMT.	DOWN
BEAM	BM.	DOWNSPOUT
BELOW	BELW.	DRAWING (S)
BITUMINOUS	BIT.	DRINKING FOUNTAIN
BLOCK	BLK.	
BLOCKING	BLKG.	EACH
BOARD	BD.	ELECTRICAL
BOTTOM	BOT.	ELEVATION
BOTTOM OF	B.O.	ELEVATOR
BRICK COURSE	B.C.	ENCLOSURE
BUILDING	BLDG.	EQUAL
BUILT-UP ROOFING	B.U.R.	EQUIPMENT
		EXHAUST
CARPET	CPT.	EXISTING
CAST-IN-PLACE	C.I.P.	EXPANSION
CAST IRON	C.I.	EXPANSION JOINT
CATCH BASIN	C.B.	EXPOSED
CEILING	CLG.	EXTERIOR
CEMENT	CEM.	
CENTER LINE	CL	FACE OF
CERAMIC TILE	C.T.	FACE OF CONCRETE
CLEARANCE	CLR.	FACE OF FINISH
CLOSET	CLO.	FACE OF MASONRY
COLUMN	COL.	FEET
CONCRETE	CONC.	FINISH
CONCRETE MASONRY UNIT	CMU	FINISH FLOOR ELEVA

CONSTRUCTION

CONTR. DWG. (S) ENCL. EQUIP. EXH. F.O.C. F.O.F. **INCLUDING INSIDE DIAMETER** INSULATION

F.F.E.

FINISH FLOOR ELEVATION

FINISH GRADE

FINISH SURFACE

FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET FIRE RATED **FLASHING** FLOOR FLOORING FLOOR PLAN FOOTING FOUNDATION FLUORESCENT GALVANIZED GAUGE GENERAL CONTRACTOR GLASS **GYPSUM** GYPSUM WALLBOARD **HARDWARE** HEATER HEATING VENTING AND AIR CONDITIONING HEIGHT HIGH POINT **HOLLOW CORE HOLLOW METAL HORIZONTAL** HOUR INCANDESCENT

INTERIOR

F.S. JANITOR

F.E.C. FLR'G F.P. FTG. **FLUOR** GALV. GWB. HVAC

LAVATORY LIGHTING LINOLEUM LONG LEG HORIZONTAL ONG LEG VERTICAL MANUFACTURER MASONRY MASONRY OPENING MUMIXAN MECHANICAL MEMBRANE MINIMUM MISCELLANEOUS MOUNTED NON-COMBUSTIBLE NOT APPLICABLE NOT IN CONTRACT NOT TO SCALE NUMBER OCCUPANT / OCCUPANCY ON CENTER

OPPOSITE

OPPOSITE HAND

OUTSIDE DIAMETER

OVERFLOW DRAIN

LINO.

M.O. MEMB. MISC. N.I.C. N.T.S.

YTITMAUÇ QUARRY TILE **RADIUS** RECEPTACLE REQUIRED RESILIENT FLOORING **RETURN AIR** REVISION **ROOF DRAIN** ROUGH OPENING RUBBER SECTION SIMILAR SOLID CORE **SPECIFICATIONS**

SQUARE FOOT(AGE

STAINLESS STEEL

STANDARD

O.F.D.

PAINTED

PERFORATED

PLASTIC LAMINATE

THERMOPLASTIC POLYOLEFIN POLYVINYL CHLORIDE POUNDS PER SQUARE INCH THICKNESS PRESERVATIVE TREATED TOP OF TOP OF CONCRETE TOP OF RAIL TOP OF STEEL TOP OF WALL TREAD RECEPT. TREATED TRENCH DRAIN TYPICAL UNDERWRITERS LABORATORIES VENEER PLASTER VERIFY IN FIELD VERTICAL VINYL WALL COVERING WATER CLOSET

PLAM.

UNLESS NOTED OTHERWISE VINYL COMPOSITION TILE WATERPROOFING WELDED WIRE FABRIC

WIDE FLANGE

WINDOW

WITHOUT

SSTL. WITH

STORAGE

SUSPEND (ED)

TELEPHONE

STREET

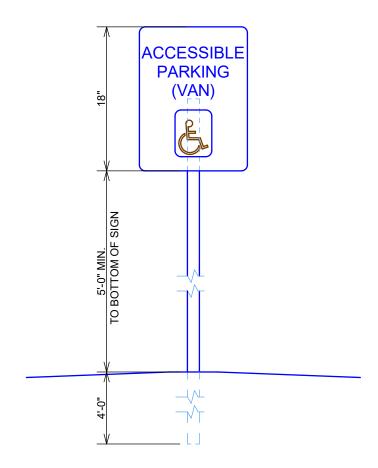
TYP. U.L. U.N.O. V.I.F. VERT. VCT. VWC. LIFE SAFETY NOTES:

OCCUPANT LOAD:

DAY CARE AREA: 35 NET SQ. FT. PER OCCUPANT 789 NET SQ.FT. / 35 = 23 OCCUPANTS

OFFICE AREA: 150 GROSS SQ.FT. PER OCCUPANT 130 GROSS SQ.FT. / 150 = 1 OCCUPANT

- PER CBC SEC. 1006.2 AND TABLE 1006.2.1, ONE EXIT IS ALLOWED IN E OCCUPANCY WITH UNDER 49 OCCUPANT LOAD AND LESS THAN 75' COMMON PATH OF EGRESS TRAVEL
- 2. RUNNING SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:20 (5%). THE CROSS SLOPE SHALL NOT BE STEEPER THAN 1:48.
- 3. SEE PAGES AN1 TO AN3 FOR ADDITIONAL ACCESSIBILITY REQUIREMENTS.
- 4. THERE SHALL BE A FLOOR OR LANDING ON EACH SIDE OF DOOR. SUCH FLOOR OR LANDING SHALL BE AT THE SAME ELEVATION ON EACH SIDE OF THE DOOR. LANDINGS SHALL BE LEVEL EXCEPT FOR EXTERIOR LANDINGS, WHICH ARE PERMITTED TO HAVE A SLOPE NOT TO EXCEED .25 UNIT VERITCAL IN 12 UNITS HORIZONTAL.



ACCESSIBLE PARKING SIGN DETAIL

3/4" = 1'-0"

1

TODDLER CENTE 6, ORLEANS, CA 95556

LIFE SAFETY PLAN

INFANT

KARUK

PESIGN &

ENGINEERING

O23 6th Street West, Ashland, WI 54806
elephone (715) 682-0330 www.csdesignengineering.com

DESIGNED:
L.D.

DRAWN:
T.L.P., A.D.E.

SCALE:
AS NOTED

20-3480

JUNE 13, 2024

REVISIONS:

201025 COUNTY SUBMITAL

221118 COUNTY RE-SUBMITAL

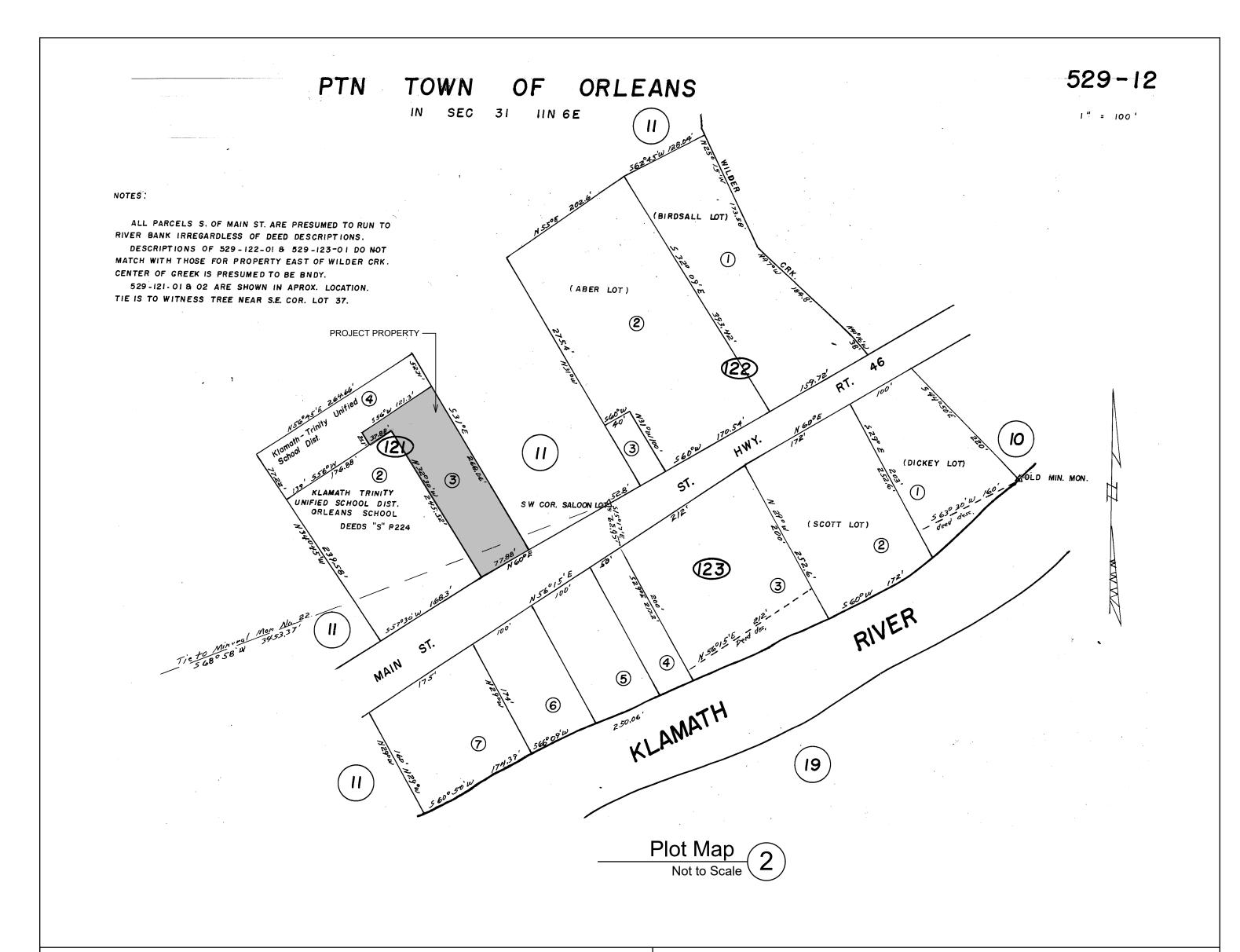
221216 BID ADDENDUM 1

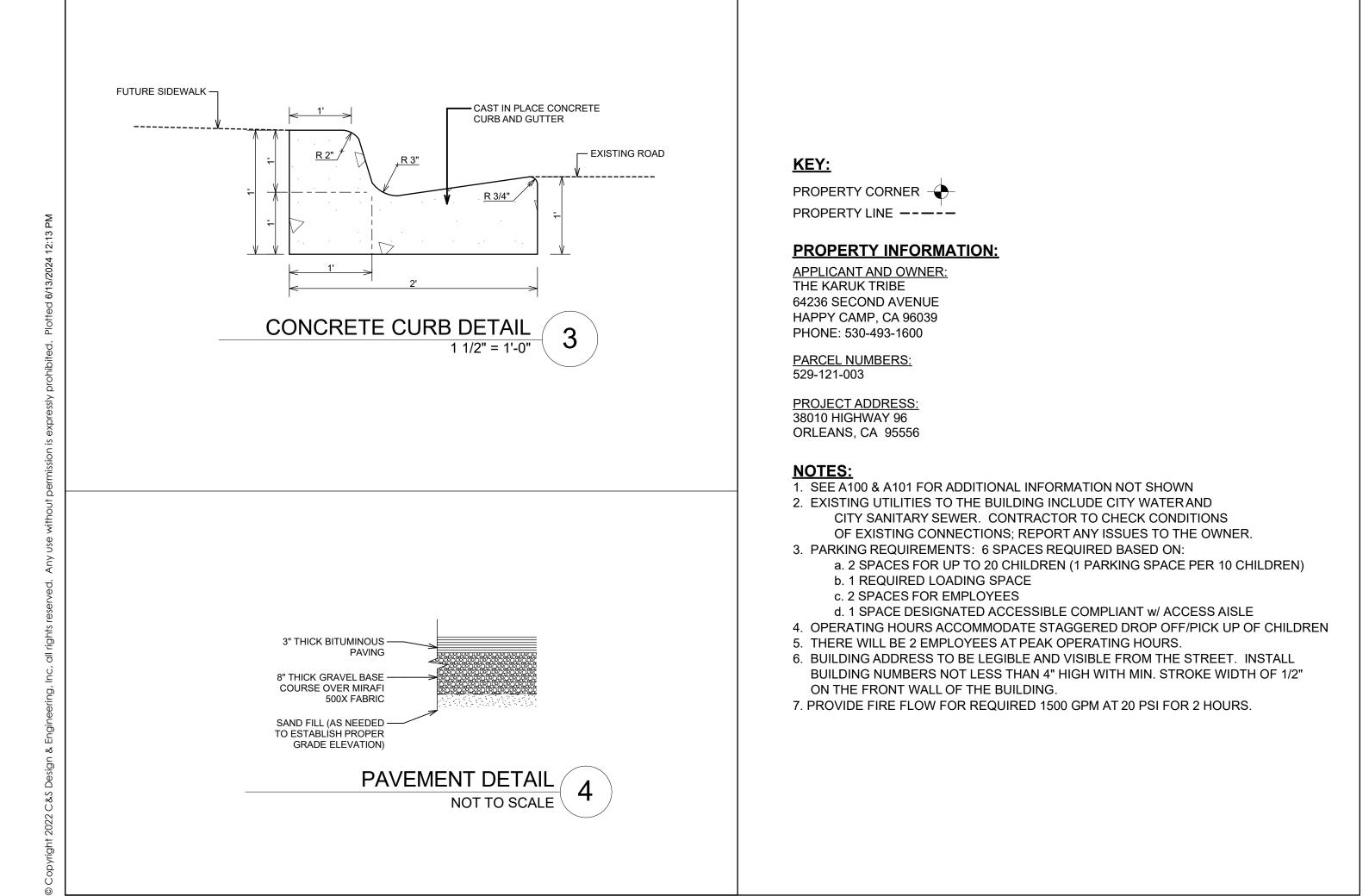
230125 RE-BID DRAWINGS

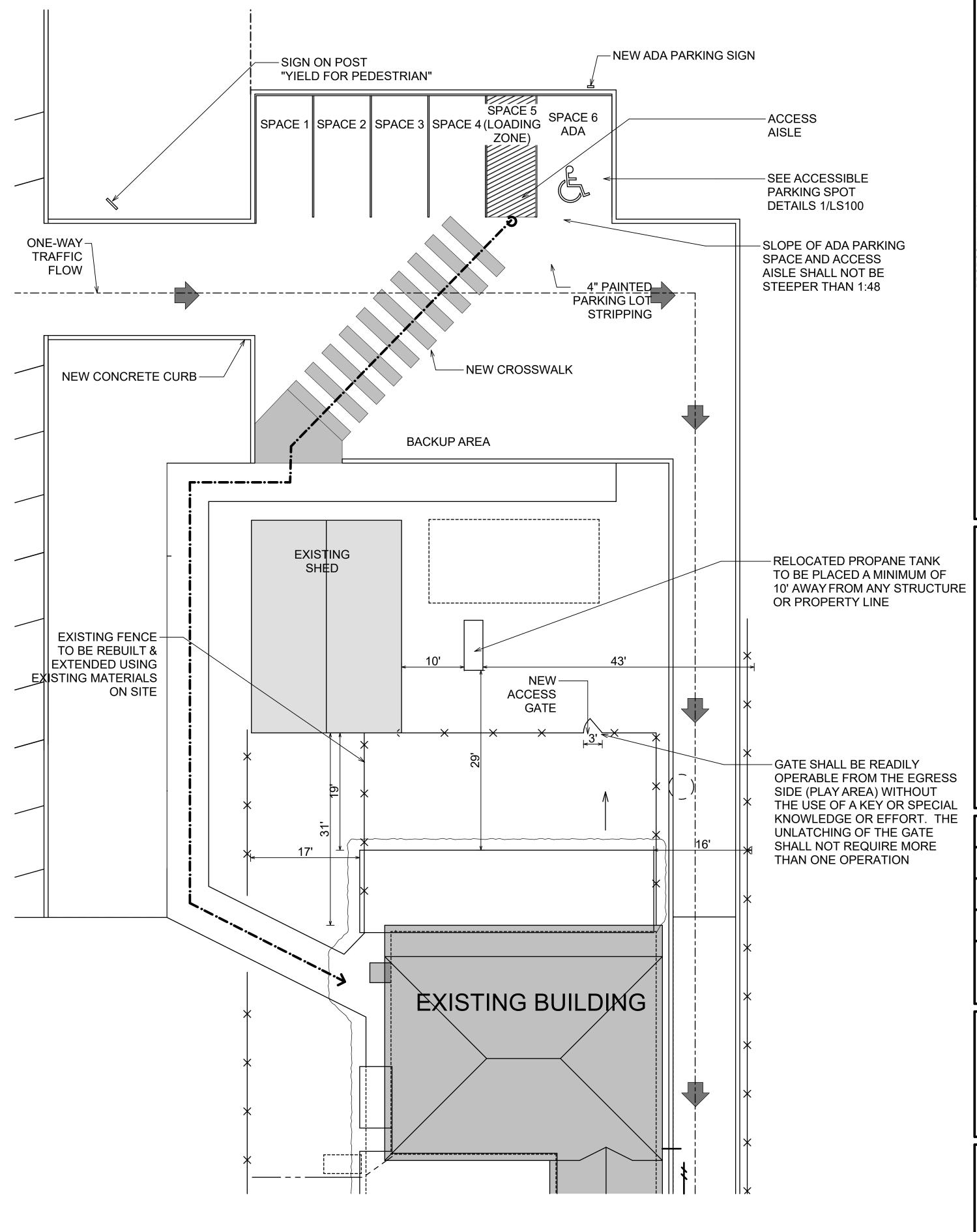
221216 BID ADDENDUM 1
230125 RE-BID DRAWINGS
231228 UPDATED SITE



LS100







ENLARGED SITE PLAN

SCALE: 1" = 10'

NT / TODDLER CEN

IIGHWAY 96, ORLEANS, CA 9556

KARUK INFANT / TO

DESIGN &

PROBLEM BERING

Mith framework design inc.

3 6th Street West, Ashland, WI 54806

L.D.

DRAWN:
T.L.P., A.D.E.

AS NOTED

JUNE 13, 2024
PROJECT NO.

20-3480

REVISIONS: 01-08-21: PARKING CHANGED POWNS CEDIAND SUBANTIAAFFIC 221216 BID ADDENDUM 1 221216 BID ADDENDUM 1 230125 RE-BID DRAWINGS

230125 RE-BID DRAWINGS 231228 UPDATED SITE

APPROVED:

ARCH
LAUREN E.
DAHL
C35192

09/30/25

RENEWAL
DATE
OF CALLED

OF CALLED

C100

SCALE: N.T.S.

/ TODDLER CENTEI

KARUK

SITE PI A

> GNED: L.D.

T.L.P., A.D.E.

JUNE 13, 2024

20-3480

AS NOTED

OJECT NO.

USIONS:

201025 COUNTY SUBMITAL 221118 COUNTY RE-SUBMITAL 221216 BID ADDENDUM 1

230125 RE-BID DRAWINGS 231228 UPDATED SITE

APPROVED:

ARCHIVATION OF CAUTION OF CAUTION

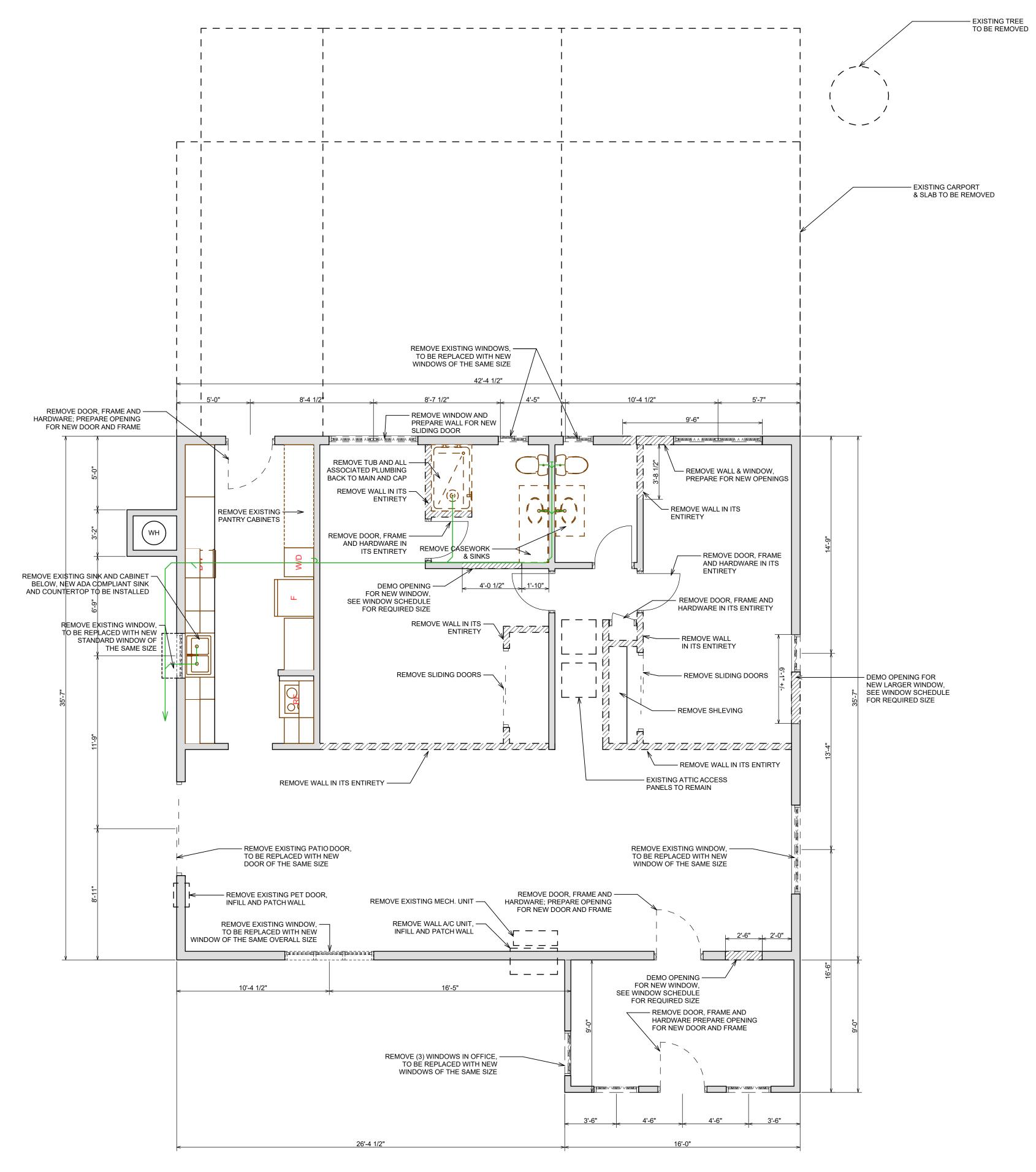
C101

rujedall

AS NOTED

231228 UPDATED SITE

AD100



ORLEANS DEMOLITION FLOOR PLAN

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

EXISTING WALL TO REMAIN

NOTES:

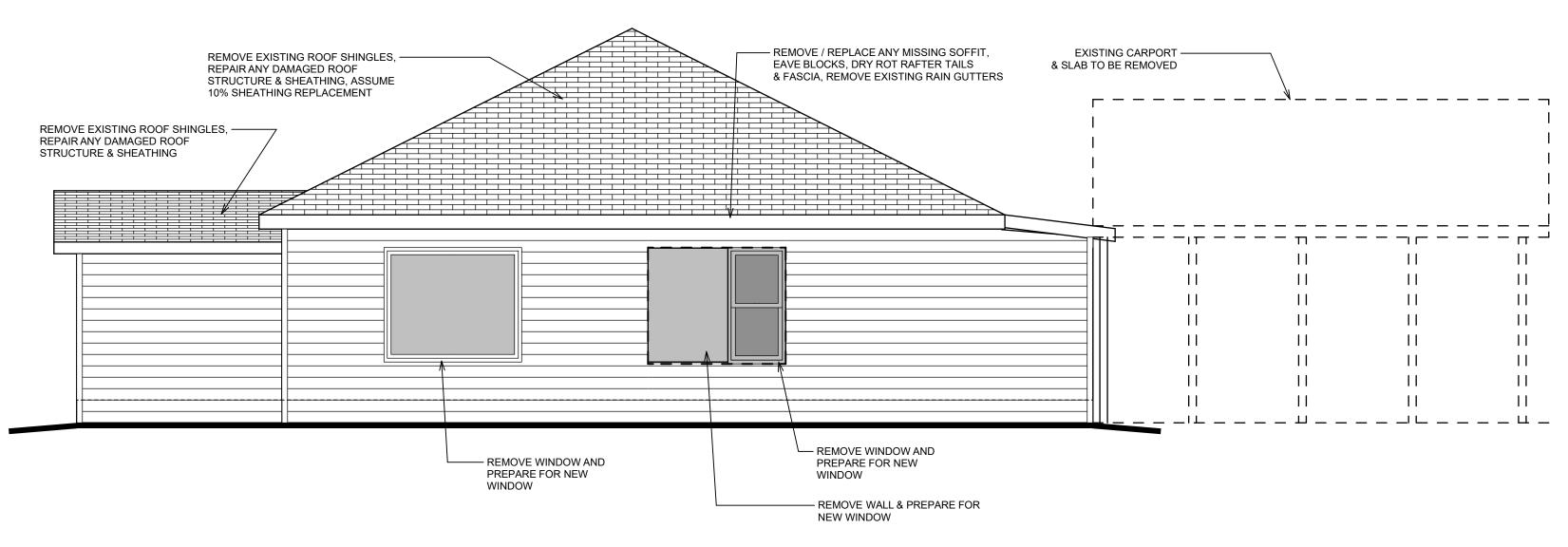
1. SEE ELECTRICAL PLAN FOR ADDITIONAL DEMO NOTES

20-3480

221216 BID ADDENDUM 1 230125 RE-BID DRAWINGS 231228 UPDATED SITE

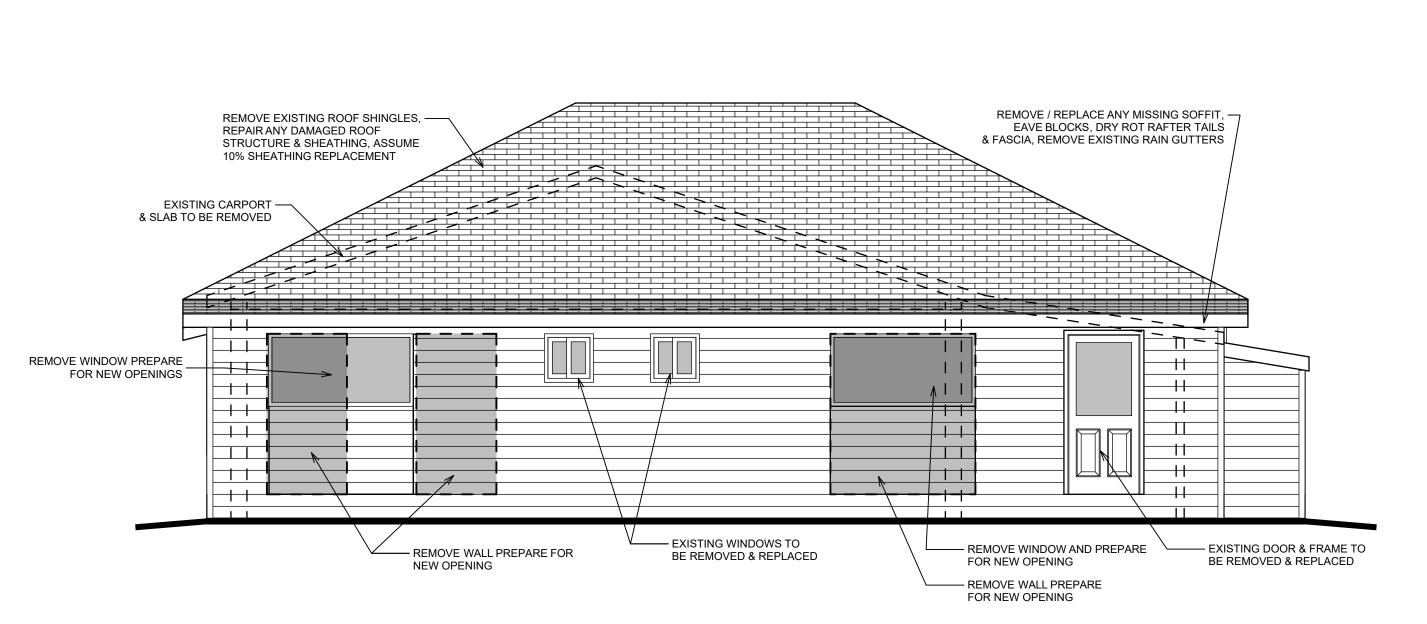


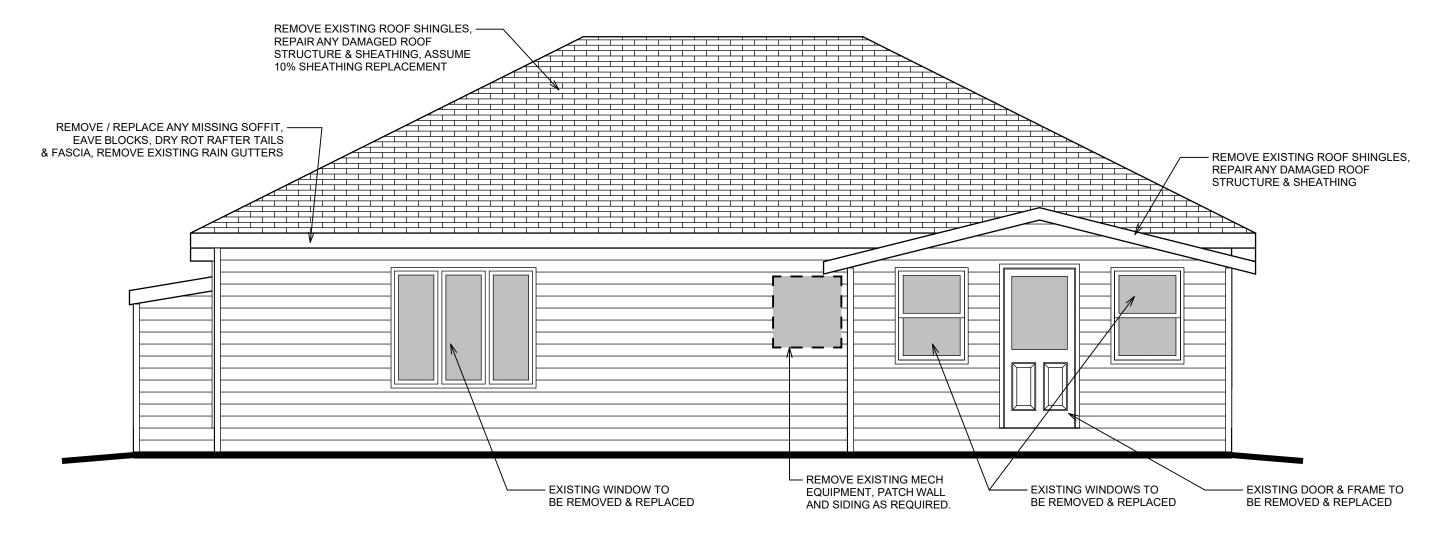
AD200



AS-BUILT EAST ELEVATION

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



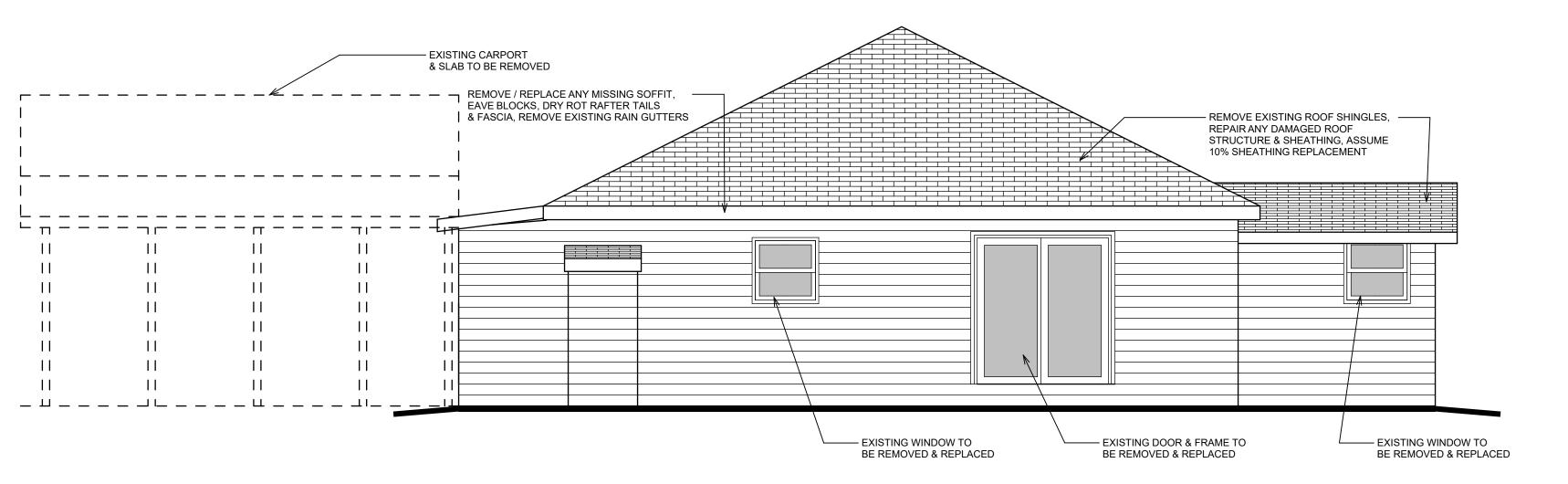


AS-BUILT SOUTH ELEVATION

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

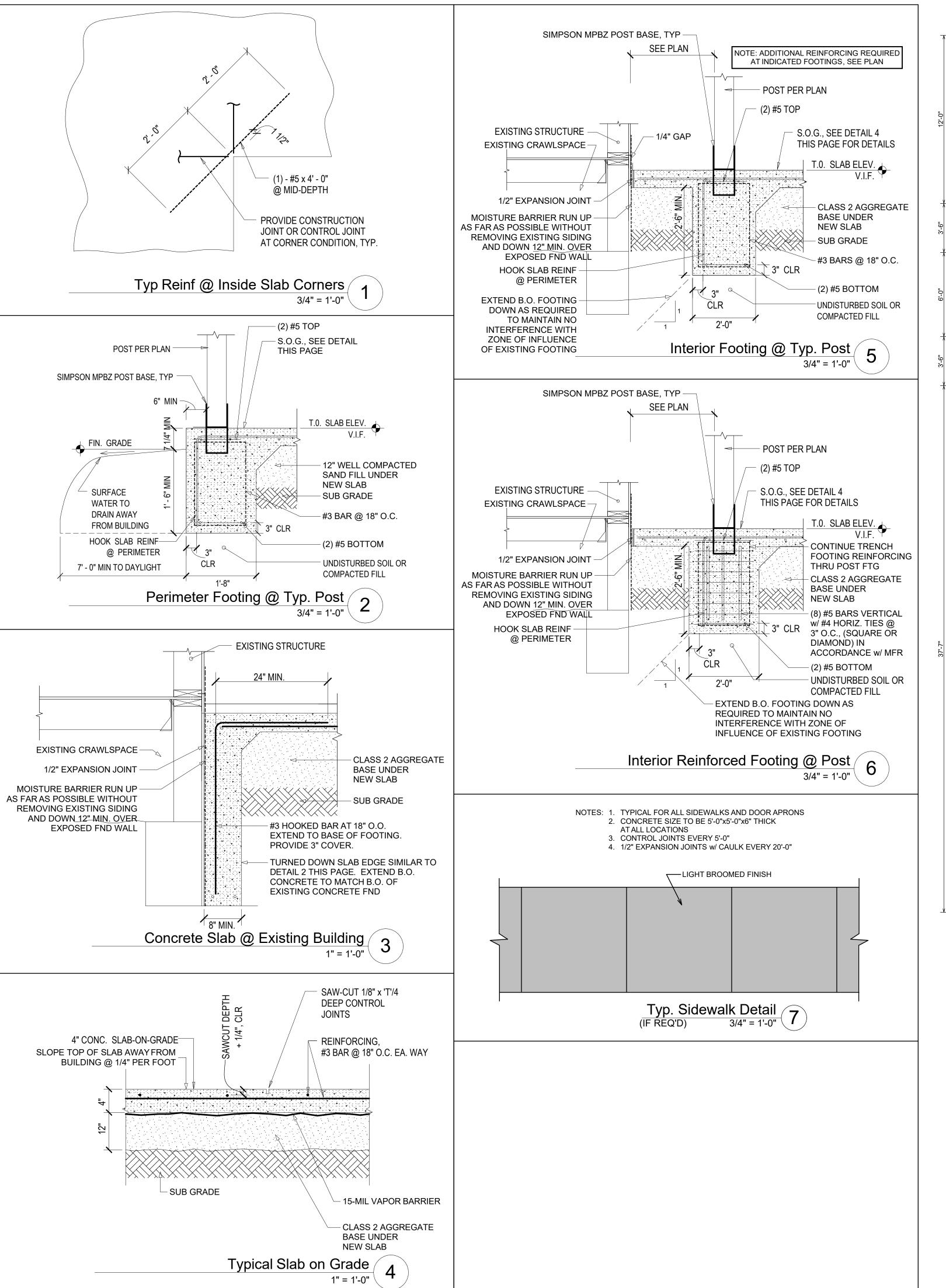
AS-BUILT NORTH ELEVATION

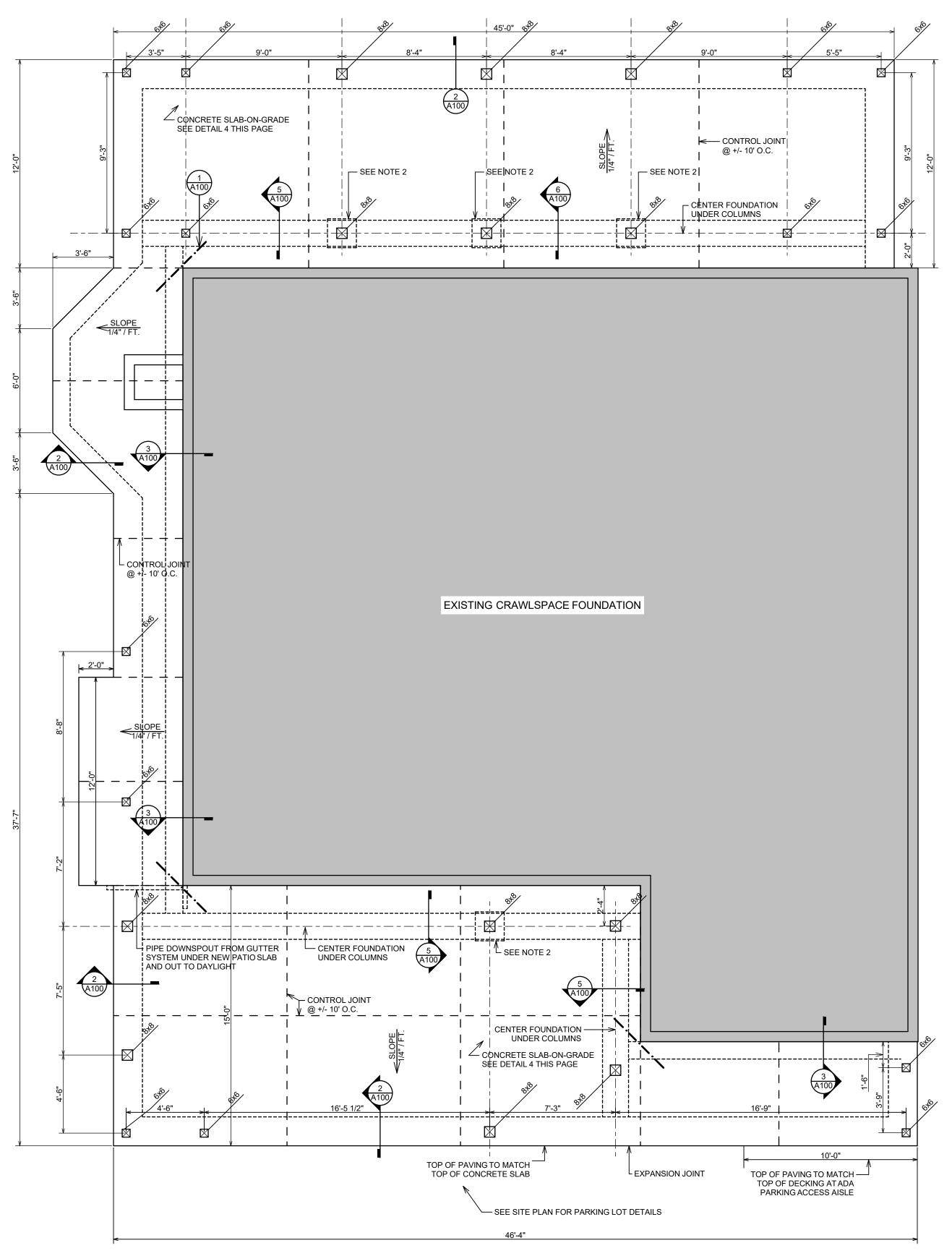
SCALE: 1/4" = 1'-0"



AS-BUILT WEST ELEVATION

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





1. ALL EXT. FRAMING TO BE CEDAR NO.2 CLEAR

2. PROVIDE 20" SQUARE x 18" DEEP FOOTING INTEGRAL WITH CONTINUOUS TRENCH FOOTING. REINFORCE FOOTING WITH #4 HORIZ. TIES @ 3" O.C. AND (8) #5 VERTICAL BARS IN ACCORDANCE WITH MANUFACTURER.

ORLEANS PROPOSED FOUNDATION PLAN

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



CENTE

TODDL

ANT

N N

KARUK

ING $\frac{8}{2}$ 9 ESI NGI

DESIGNED L.D. T.L.P., A.D.E.

AS NOTED

JUNE 13, 2024 PROJECT NO.

20-3480

REVISIONS: 01025 COUNTY SUBMITAL 21118 COUNTY RE-SUBMITAL

221216 BID ADDENDUM 1 230125 RE-BID DRAWINGS 231228 UPDATED SITE



	FINISH SCHEDULE								
	ROOM	FLOOR			WALL		CE	LING	
NO.	NAME	SUBSTRATE	FINISH	BASE FINISH	SUBSTRATE	FINISH	SUBSTRATE	FINISH	HEIGHT
100	OFFICE	EXISTING WOOD SUBFLOOR	LVP	4" VINYL	EXISTING DRYWALL	PATCH / PAINT EGGSHELL	EXISTING DRYWALL	PATCH / PAINT EGGSHELL	8'-0"
101	ALL GENDER RESTROOM	EXISTING WOOD SUBFLOOR	LVP	4" VINYL	EXISTING / NEW DRYWALL	PATCH / PAINT SEMI-GLOSS	EXISTING DRYWALL	PATCH / PAINT SEMI-GLOSS	8'-0"
102	ALL GENDER TODDLER RESTROOM	EXISTING WOOD SUBFLOOR	LVP	4" VINYL	EXISTING DRYWALL	PATCH / PAINT SEMI-GLOSS	EXISTING DRYWALL	PATCH / PAINT SEMI-GLOSS	8'-0"
103	INFANT ROOM	EXISTING WOOD SUBFLOOR	LVP	4" VINYL	EXISTING / NEW DRYWALL	PATCH / PAINT SEMI-GLOSS	EXISTING DRYWALL	PATCH / PAINT SEMI-GLOSS	8'-0"
104	TODDLER ROOM	EXISTING WOOD SUBFLOOR	LVP	4" VINYL	EXISTING / NEW DRYWALL	PATCH / PAINT SEMI-GLOSS	EXISTING DRYWALL	PATCH / PAINT SEMI-GLOSS	8'-0"
105	KITCHEN / STORAGE / LAUNDRY	EXISTING WOOD SUBFLOOR	LVP	4" VINYL	EXISTING DRYWALL	PATCH / PAINT SEMI-GLOSS	EXISTING DRYWALL	PATCH / PAINT SEMI-GLOSS	8'-0"
106	NAP ROOM	EXISTING WOOD SUBFLOOR	LVP	4" VINYL	EXISTING / NEW DRYWALL	PATCH / PAINT SEMI-GLOSS	EXISTING DRYWALL	PATCH / PAINT SEMI-GLOSS	8'-0"

- NOTES:1. ALL PAINTING: PRIMER WITH TWO (2) FINISH COATS OF PAINT. 2. ALL EXISTING DRYWALL IS TO BE REPAIRED, ALL EXISTING INTERIOR WALLS ARE TO BE REPAINTED.
- 3. ALL WOOD MILLWORK SHALL BE PINE w/ TWO (2) COATS OF SEMI-GLOSS PAINT. 4. ALL CLOSETS TO HAVE SAME FINISHES AS THE ROOMS THEY ARE ASSOCIATED WITH.
- 5. ALL COLORS TO BE SELECTED BY THE OWNER.
- 6. LUX VINYL PLANK (LVP) COMMERICAL GRADE, 20 MM MIN., FLOATING. 7. BASE, LVP TO BE FROM STANDARD, STOCK OPTIONS. COLOR TO BE SELECTED BY OWNER/ARCHITECT
- 8. ALL EXISTING FLOORING TO BE REMOVED, ANY VOIDS IN THE SUBFLOOR WHERE WALLS ARE BEING REMOVED OR OTHERWISE ARE TO BE PATCHED WITH PLYWOOD IN THICKNESS TO MATCH EXISTING SUBFLOOR, A NEW LAYER OF 1/2" THICK UNDERLAYMENT SHALL BE INSTALLED OVER ALL FLOORS IN PREPARATION FOR NEW FINISHED FLOORING INSTALLATION.

ON ALL SIDING, TRIM, SOFFITS AND FASICA: SCRAPE OLD PAINT AS REQUIRED, APPLY (1) COAT EACH OF

TINTED PRIMER AND PAINT IN COLORS SELECTED BY OWNER / ARCHITECT ON ALL NEW WOOD DECKING, POSTS, BEAMS AND RAFTERS: APPLY (1) COAT EACH OF STAIN AND CLEAR SEAL. COLOR SELECTED BY OWNER / ARCHITECT

DOOR SCHEDULE

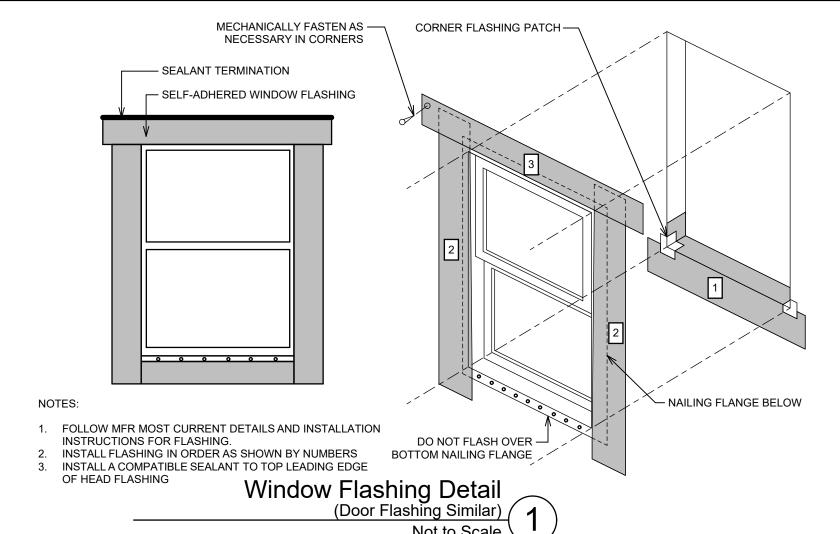
SYMBOL	DOOR TYPE	SI W	ZE H	FRAME TYPE	DOOR HEADER	HARDWARE LOCK FUNCTION	REMARKS
1	HALF LITE INSULATED STEEL DOOR	3'-0"	6'-8"	PREHUNG CLAD	EXISTING TO REMAIN	KEYED ENTRY LOCKSET	w/ CLOSER AND WEATHERSTRIPPING
2	SLIDING GLASS DOOR	6'-0"	6'-8"	PREHUNG CLAD	2 PLY 2x12	LATCH & LOCK	
3	SOLID PANEL INSULATED STEEL DOOR	3'-0"	6'-8"	PREHUNG CLAD	4x6	KEYED ENTRY LOCKSET	w/ CLOSER AND WEATHERSTRIPPING
4	FULL GLASS INSULATED STEEL DOOR	3'-0"	6'-8"	PREHUNG CLAD	4x6	KEYED ENTRY LOCKSET	w/ CLOSER AND WEATHERSTRIPPING
5	HALF LITE INSULATED STEEL DOOR	3'-0"	6'-8"	PREHUNG CLAD	EXISTING TO REMAIN	KEYED ENTRY LOCKSET	w/ CLOSER AND WEATHERSTRIPPING
6	FULL GLASS INSULATED STEEL DOOR w/ 2 SIDELITES	5'-0"	6'-8"	PREHUNG CLAD	EXISTING TO REMAIN	KEYED ENTRY LOCKSET	w/ CLOSER AND WEATHERSTRIPPING,DOOR TO BE 3'-0" WIDE w/ TWO FULL GLASS 12" SIDELITES ON EACH SIDE
7	SOLID PANEL WOOD DOOR	3'-0"	6'-8"	PREHUNG	EXISTING TO REMAIN	PRIVACY	w/ CLOSER
8	WOOD DUTCH DOOR GLASS PANEL TOP	3'-0"	6'-8"	PREHUNG	EXISTING TO REMAIN	PASSAGE	
9	WOOD DUTCH DOOR GLASS PANEL TOP	3'-0"	6'-8"	PREHUNG	2 PLY 2x10	PASSAGE	
10	WOOD DUTCH DOOR GLASS PANEL TOP	3'-0"	6'-8"	PREHUNG	2 PLY 2x10	PASSAGE	
11	HALF LITE WOOD DOOR	3'-0"	6'-8"	PREHUNG	EXISTING TO REMAIN	KEYED OFFICE LOCKSET	LOCK KEYED ON ROOM 103 SIDE

- CONTRACTOR SHALL VERIFY ALL SIZES WITH MANUFACTURER BEFORE ORDERING OR INSTALLING. 2. EQUIP ALL EXTERIOR AND INTERIOR DOORS TO PROVIDE A COMPLETE INSTALLATION, INCLUDING ALL REQUIRED: JAMB, HINGES, LEVER STYLE HANDLE, CASING,
- LOCK(S), WEATHER-STRIPPING, THRESHOLDS, SWEEPS, DOOR STOPS w/ BACKING, ETC. SIZE AND SWING AS INDICATED ON THE PLANS. 3. ALL DOORS SHALL BE PRE-FINISHED IN A COLOR SELECTED BY THE OWNER / ARCHITECT.
- 4. ALL EXTERIOR SLIDING GLASS DOORS TO BE MILGARD, ATRIUM OR APPROVED EQUAL.
- 5. ALL OTHER EXTERIOR DOORS: 1 3/4", 24 GAUGE, THERMATRU SOLID CORE, METAL CLAD, FIBERGLASS OR APPROVED EQUAL, w/ STANDARD ONE YEAR GUARANTEE MIN. 6. ALL INTERIOR DOORS TO BE PAINT GRADE, SOLID CORE WOOD, OREPAC, FLAT PANEL DOOR IN STYLE SELECTED FROM MRF STANDARD OPTIONS BY OWNER / ARCHITEC
- 7. ALL DOOR GLASS TO BE TEMPERED.
- 8. ALL HARDWARE TO BE SATIN NICKEL, LEVER STYLE ADA COMPLIANT, ALL HARDWARE HANDLES / LOCKS OPERABLE PARTS SHALL BE 34" MIN AND 44" MAX ABOVE THE FINISHED FLOOR OR GROUND. EXTERIOR: 'KWIKSET' 740 TNL SMT, INTERIOR: 'KWIKSET' 720TNL OR 730TNL

WINDOW SCHEDULE

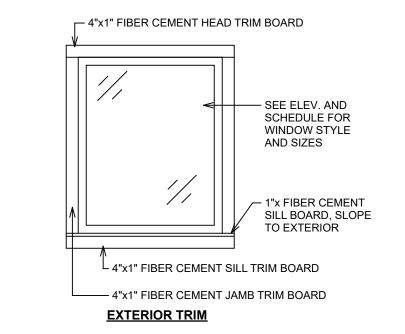
SYMBO	. QTY	TYPE	UNIT SIZE (WxH)	UNIT ROUGH OPENING (WxH)	WALL THICKNESS	GLASS INSUL. TYPE	HEADER HEIGHT	HEADER SIZE	COMMENTS
A	2	DOUBLE HUNG	3'-0" x 3'-0"	VERIFY EXISTING OPENING	VERIFY	LOW E W/ ARGON	6'-8"	EXISTING	
B	2	DOUBLE HUNG	3'-0" x 4'-0"	VERIFY EXISTING OPENING	VERIFY	LOW E W/ ARGON	6'-8"	EXISTING	
©	3	(2) DOUBLE HUNG	6'-0" x 5'-0"	VERIFY EXISTING OPENING	VERIFY	LOW E W/ ARGON	6'-8"	4x6	ENLARGED WINDOW OPENING IN INFANT ROOM, USE 2 PLY 2x8 HEADER
(D)	1	ONE WAY OBSERVATION FIXED WINDOW	2'-6" x 5'-0"	NEW OPENING	VERIFY		6'-8"	2 PLY 2x12	MIRROR SIDE TOWARD INFANT ROOM
E	2	SLIDER	2'-0" x 2'-0"	VERIFY EXISTING OPENING	VERIFY	LOW E W/ ARGON	6'-8"	EXISTING	OBSCURE FROSTED PRIVACY GLASS
F	1	ONE WAY OBSERVATION FIXED WINDOW	4'-0" x 3'-0"	NEW OPENING	VERIFY		6'-8"	2 PLY 2x12	MIRROR SIDE TOWARD TODDLER ROOM

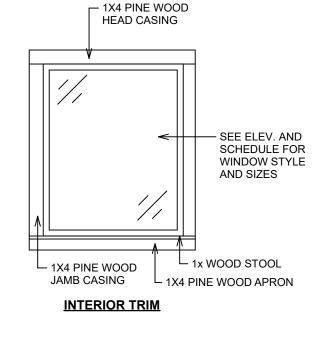
- CONTRACTOR SHALL VERIFY ALL EXISTING OPENING SIZES WITH MANUFACTURER BEFORE ORDERING OR INSTALLING.
- ALL WINDOWS TO BE FIBERGLASS, COLOR TO BE SELECTED BY OWNER / ARCHITECT. ALL WINDOWS TO BE MILGARD, ATRIUM OR APPROVED EQUAL, ENERGY STAR RATED FOR REGION WITH INSULATED, 'LOW E', CLEAR GLAZING.
- EXTERIOR COLOR SELECTED BY OWNER / ARCHITECT. INTERIOR COLOR: WHITE INCLUDE REMOVABLE INSECT SCREEN WITH ALL OPERABLE WINDOWS.
- PROVIDE TEMPERED GLASS AT WINDOWS WITHIN 24" OF DOORWAYS AND ELSEWHERE AS REQUIRED BY CODE. 7. ALL SILLS AND JAMBS TO BE WOOD PAINTED IN COLOR SELECTED BY OWNER / ARCHITECT (SEE DETAIL 2 THIS PAGE).
- 8. SEE DETAIL 1 THIS PAGE FOR FLASHING DETAIL AT ALL NEW EXTERIOR WINDOWS



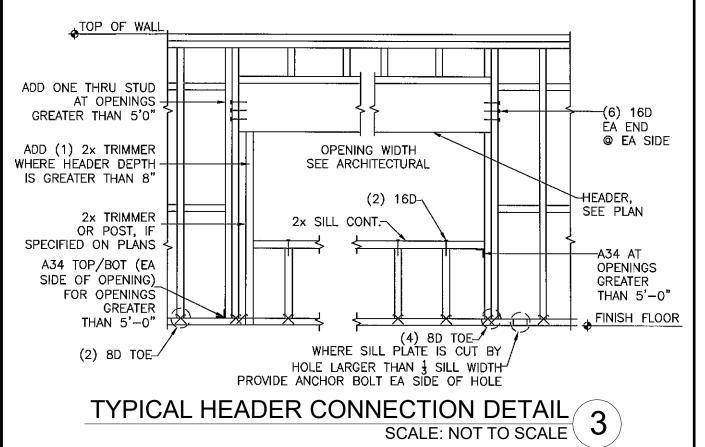
PLAN NOTES:

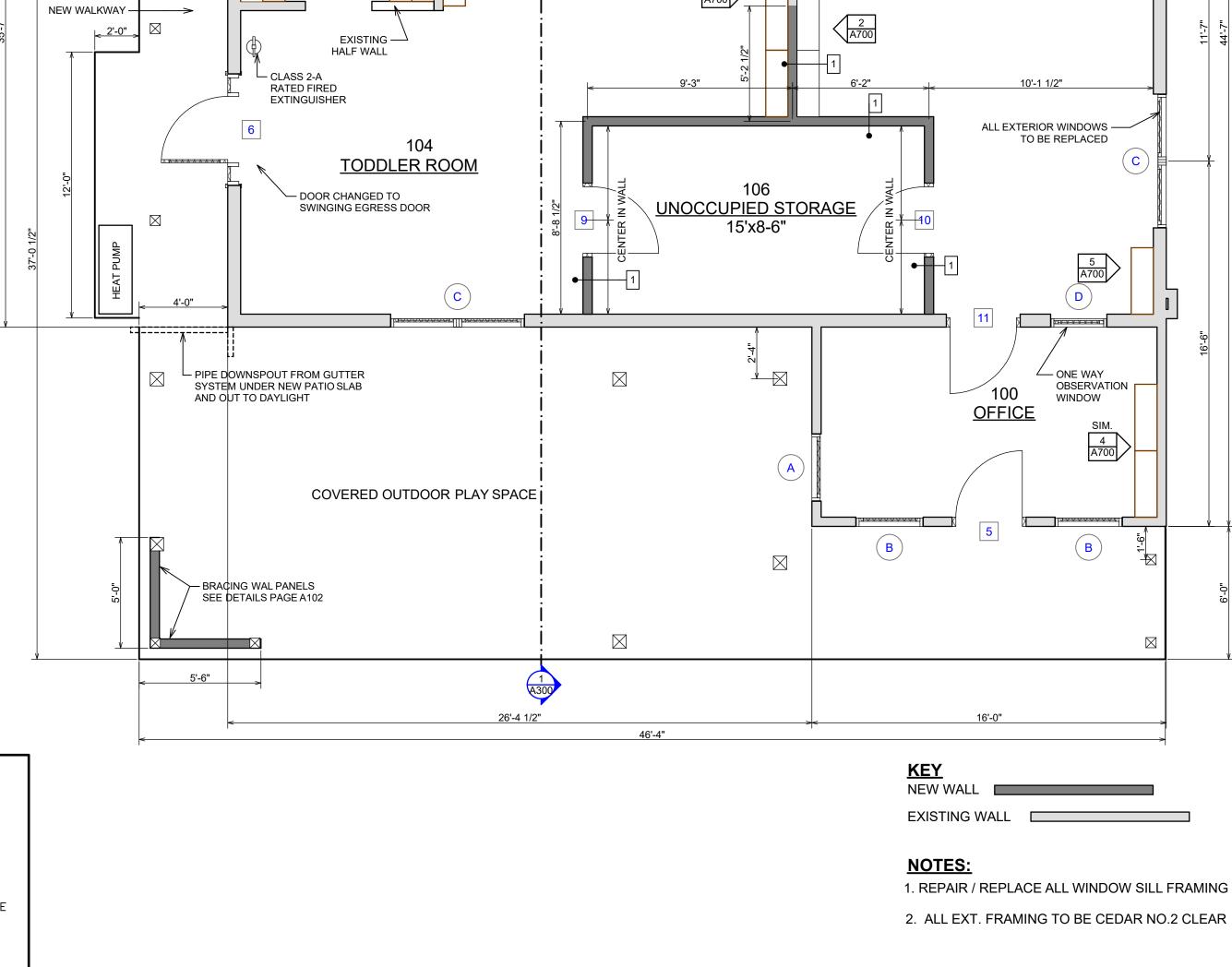
- 1. FLOOR AND GROUND SURFACES TO BE STABLE, FIRM, AND SLIP RESISTANT. OPENINGS IN FLOOR OR GROUND SURFACES SHALL NOT ALLOW PASSAGE OF SPHERE MORE THAN 1/2" DIAMETER.
- 2. ALL PATHS OF TRAVEL WILL MEET CHANGE IN LEVEL REQUIREMENTS PER 2019 CBC 11B-303.





NOTE:
1. REUSE EXISTING INTERIOR AND EXTERIOR TRIM WHEN ABLE NEW TRIM TO MATCH EXISTING, VERIFY SIZES IN FIELD 3. COLORS TO SELECTED BY OWNER / ARCHITECT Window Trim Details (Door Trim Similar) Not to Scale





COVERED CONCRETE OUTDOOR PLAY SPACE

LAUNDRY

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CHANGIN<mark>G TABLE -</mark>

BY OWNER

REFURBISH ALL KITCHEN CABINETS BY:

OF PAINT INTERIOR AND EXTERIOR OF

OR REPLACÉ DOOR HINGES AND DRAWER SLIDES AS NECESSARY AND REPLACE ALL HARDWARE (APPROX. 28 DOORS, 13 DRAWERS)

CLEAN & PRIME AND (2) COATS

ALL CABINET CASES. CLEAN, SAND AND REFINISH CABINET DOORS w (2) COATS OF POLY. REPAIR

ADULT SINK

¦(34" A.F.F.)

ADULT SINK CHILD SINK (34" A.F.F.) (22" A.F.F.)

(22" A.F.F.)

EXISTING WATER HEATER URROUND AS NEEDED,

INSTALL ACCESS DOOR

MIN. 24" WIDE x 4B" HIGH

ACCESSIBLE -

ENTRY

SIGNAGE

AS REQUIRED TO SERVICE AND REPLACE HEATER.

< 3'-6"

ORLEANS PROPOSED FLOOR PLAN

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



EXISTING DAMAGED CEILING —

& INSULATED TO R-38

RATED FIRED

NOTE: ALL REQUIRED ACCESSIBILITY SIGNAGE TO COMPLY WITH CBC 11B-701

INFANT ROOM

— EXISTING ATTIC ACCESS

PANELS

INCREASE WINDOW OPENING, -

PATCH WALL AS REQ.

4 A700

EXTINGUISHER

IN THIS AREA TO BE REPAIRED



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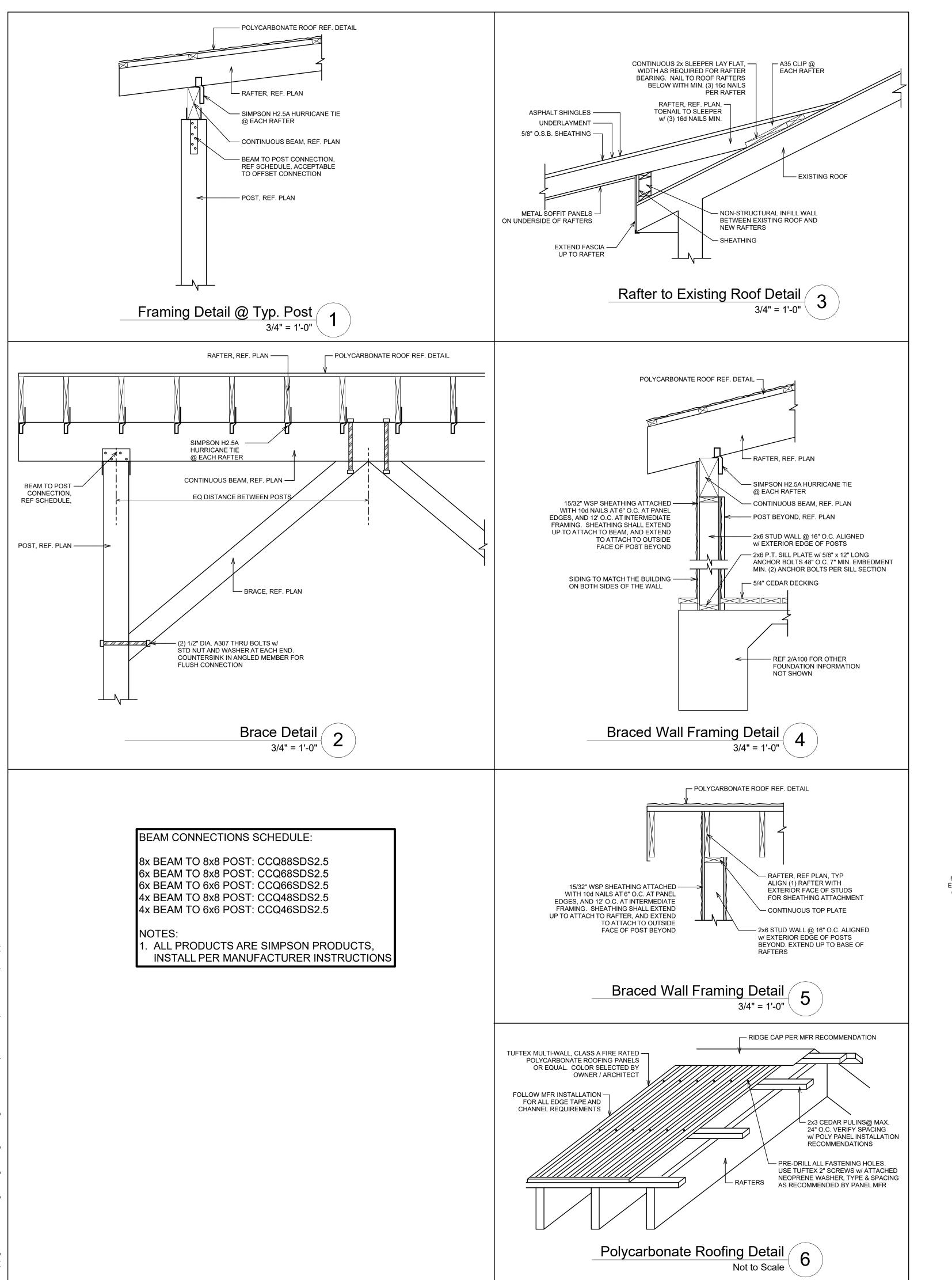
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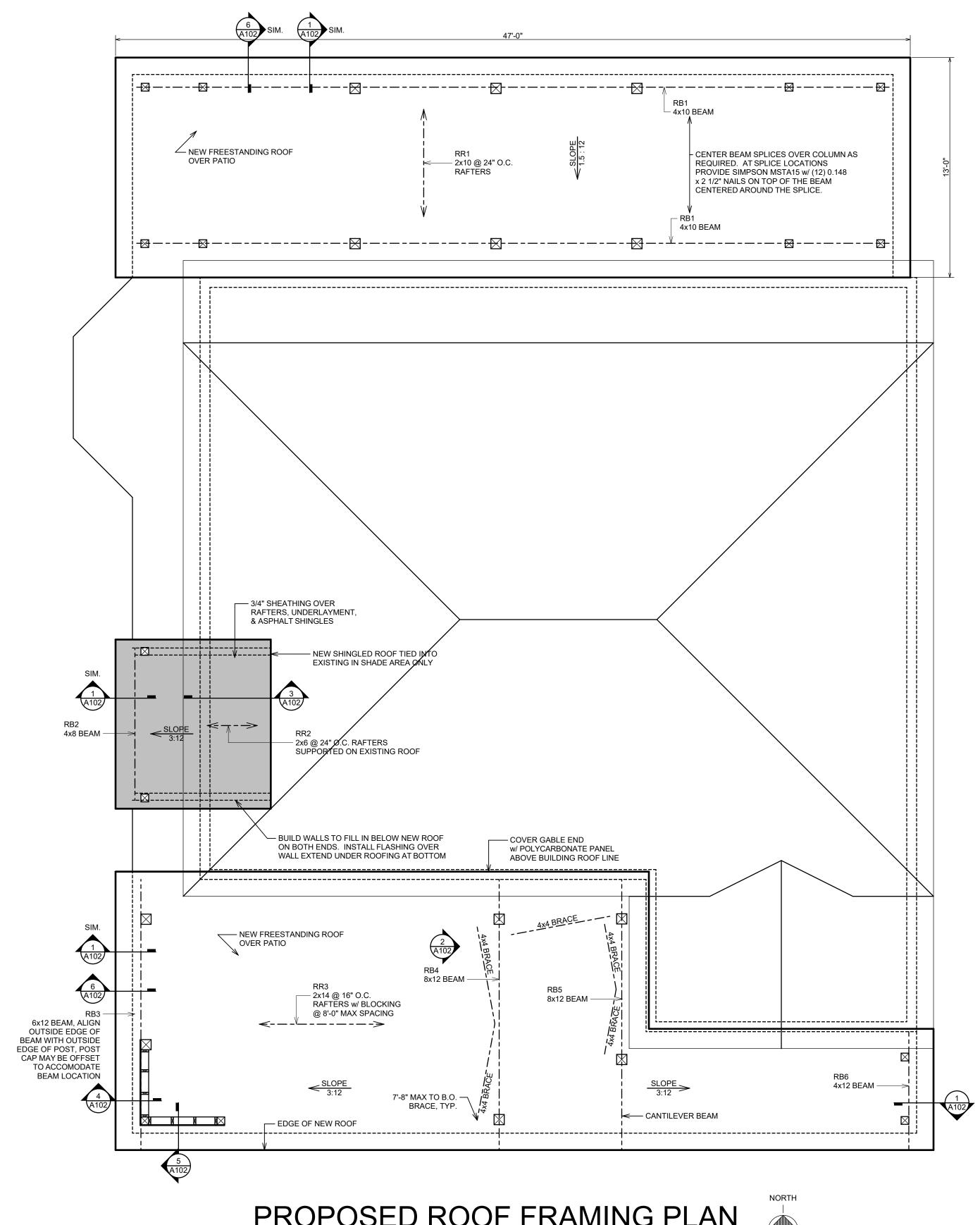
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PROPOSED ROOF FRAMING PLAN

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



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

NEW 5' SEAMLESS RAIN GUTTER W 3'M DOWNSPOUT
POLYCARBONATE ROOF PER DETAIL 5 / A192

PIPE DOWNSPOUT FROM GUTTER
SYSTEM WEST VARIED

PIPE DOWNSPOUT FROM GUTTER
SYSTEM WEST VARIED

PIPE DOWNSPOUT FROM GUTTER
SYSTEM WEST VARIED

ALL EXTERIOR SIDING AND TRIM

SOUTH VIEW

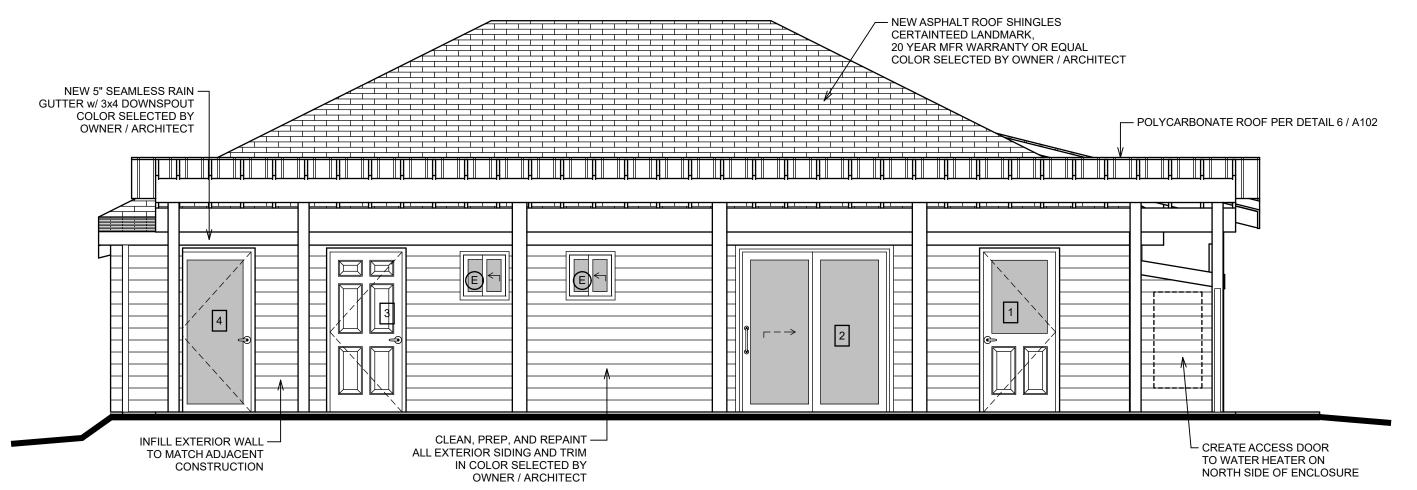
SCALE: 1:25

PROPOSED SOUTH ELEVATION

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

COVER GABLE END — POLYCARBONATE ROOF PER DETAIL 6 / A102 w/ POLYCARBONATE PANEL NEW ASPHALT ROOF SHINGLES — CERTAINTEED LANDMARK, 20 YEAR MFR WARRANTY OR EQUAL COLOR SELECTED BY OWNER / ARCHITECT POLYCARBONATE ROOF PER DETAIL 6 / A102 A \triangle NEW 5" SEAMLESS RAIN — GUTTER w/ 3x4 DOWNSPOUT COLOR SELECTED BY OWNER / ARCHITECT - BRACED WALL PANEL CLEAN, PREP, AND REPAINT PER DETAIL 4/A102 ALL EXTERIOR SIDING AND TRIM

PROPOSED WEST ELEVATION SCALE: 1/4" = 1'-0"



PROPOSED NORTH ELEVATION



NORTH VIEW
SCALE: 1:25

DESIGN &

CS ENGINEERING

with framework design inc.

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DESIGNED:
L.D.

DRAWN:
T.L.P., A.D.E.

SCALE:
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PPROVED:

LAUREN E.
DAHL

C35192

O9/30/25

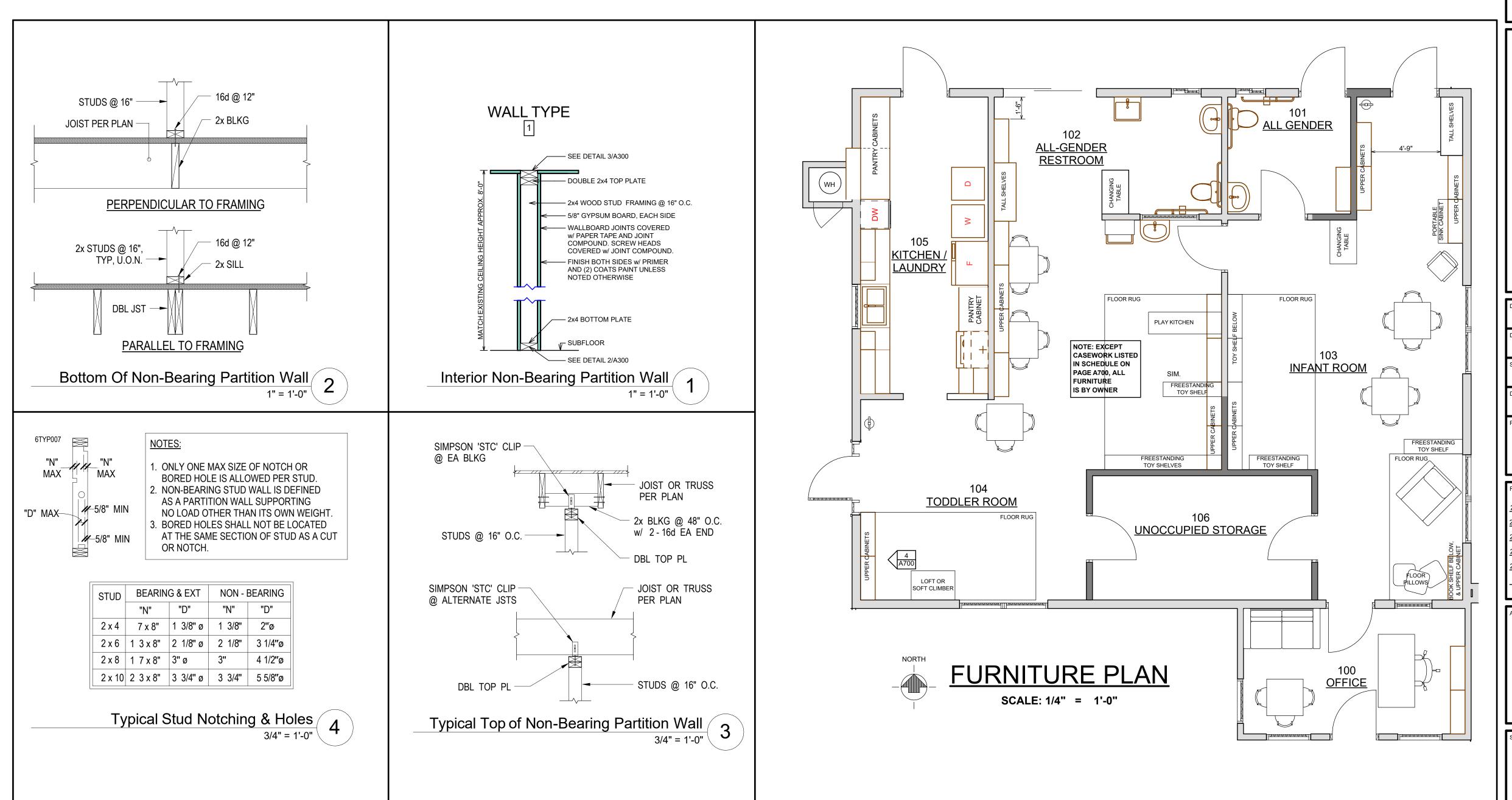
RENEWAL
DATE

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





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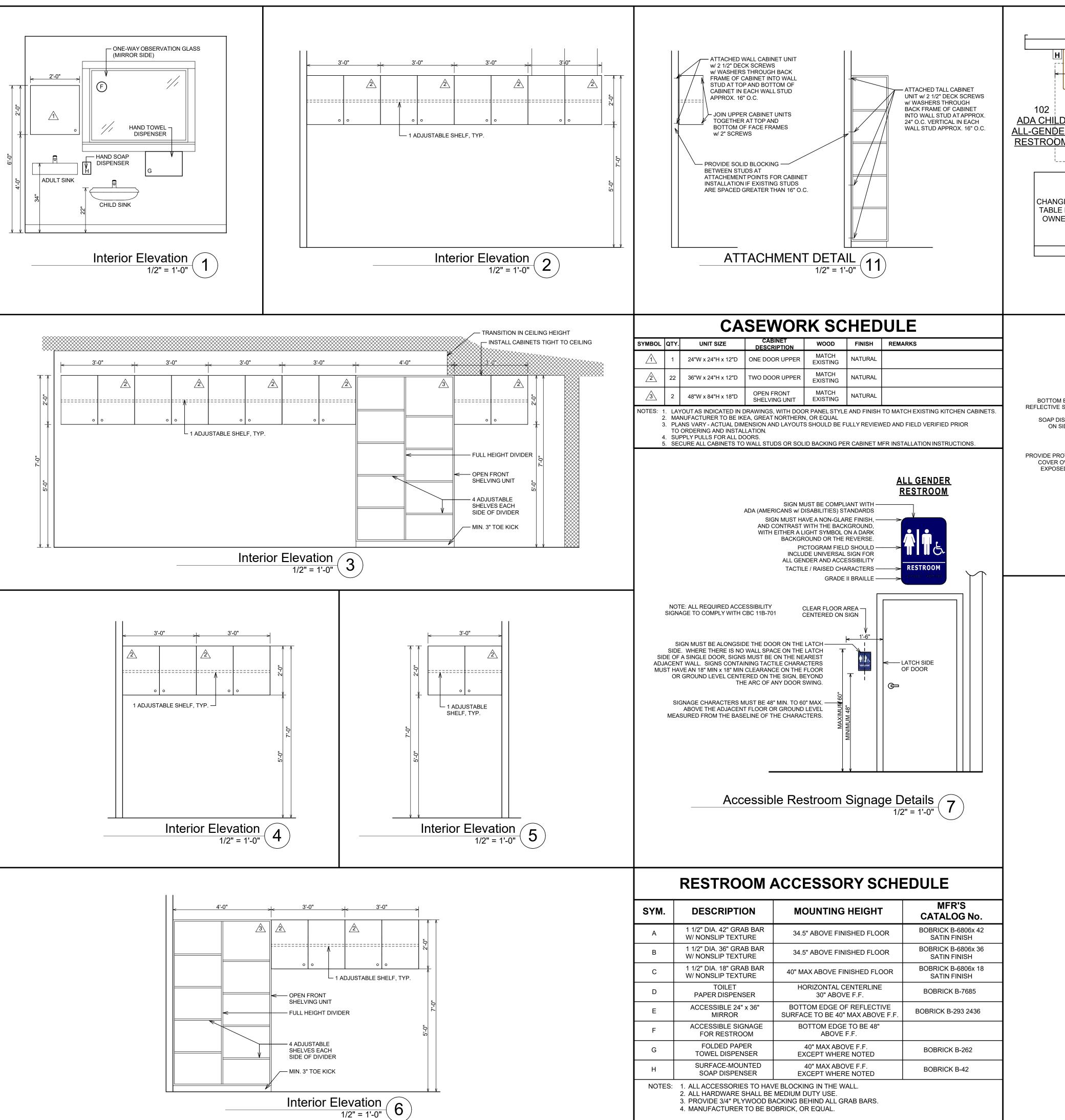
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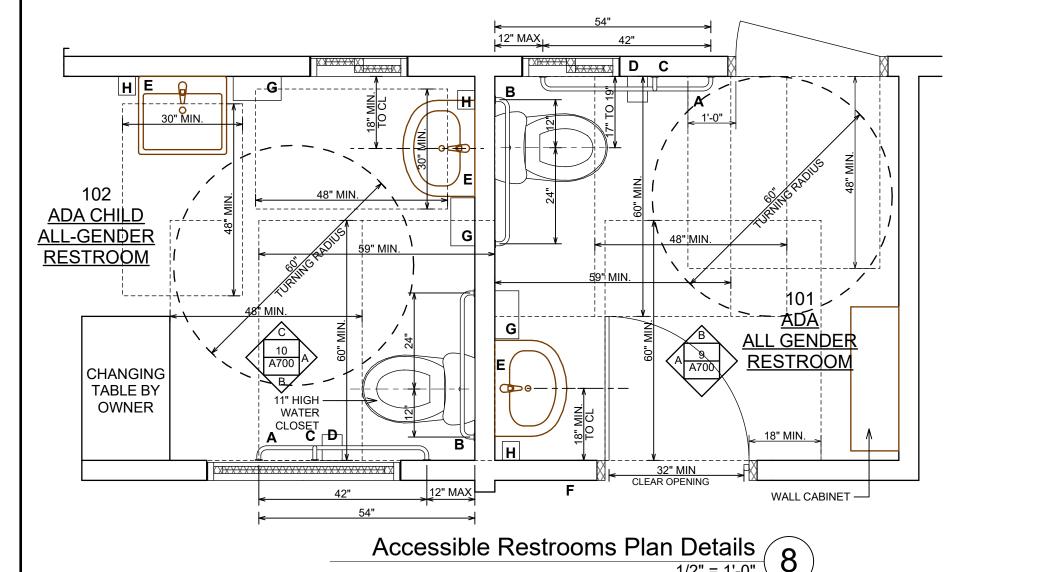
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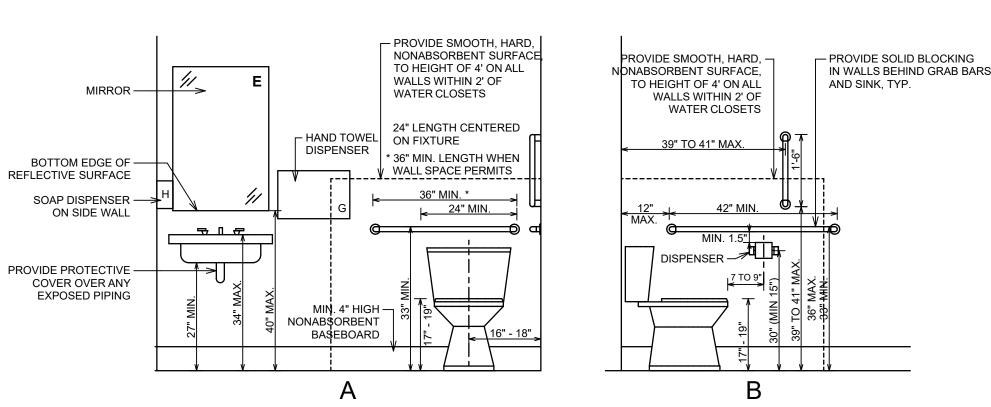
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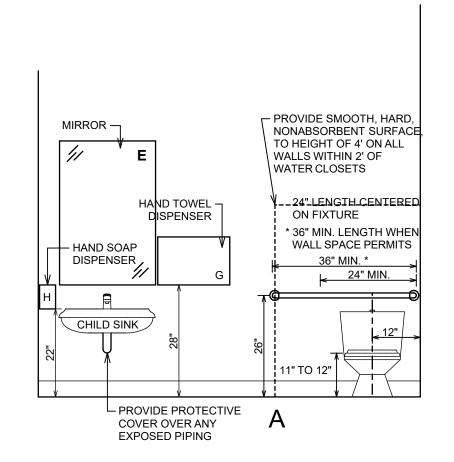


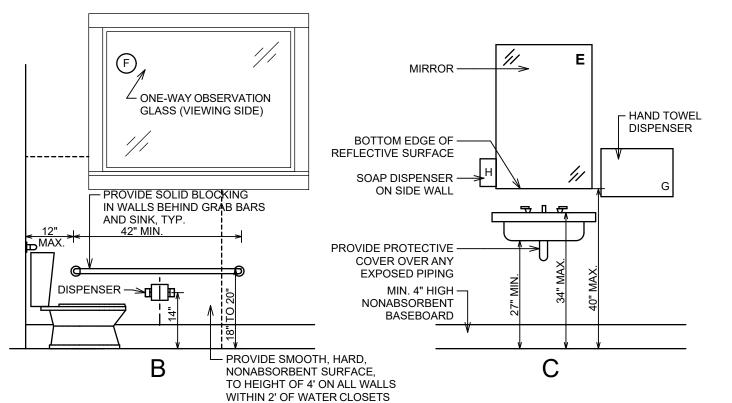


Accessible All Gender Restroom Interior Elevations

1/2" = 1'-0"

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Accessible Child All-Gender Restroom Interior Elevations

1/2" = 1'-0"

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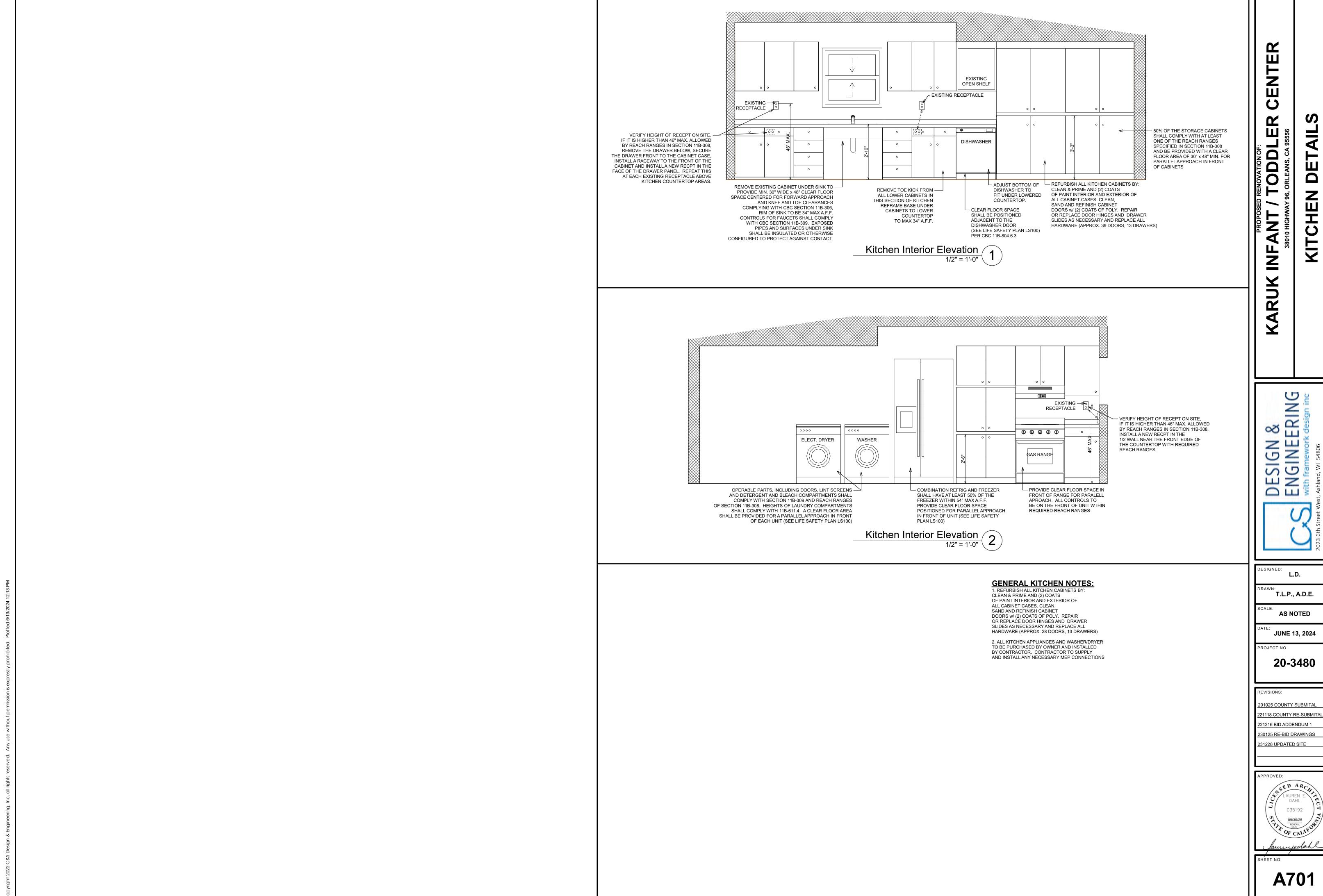
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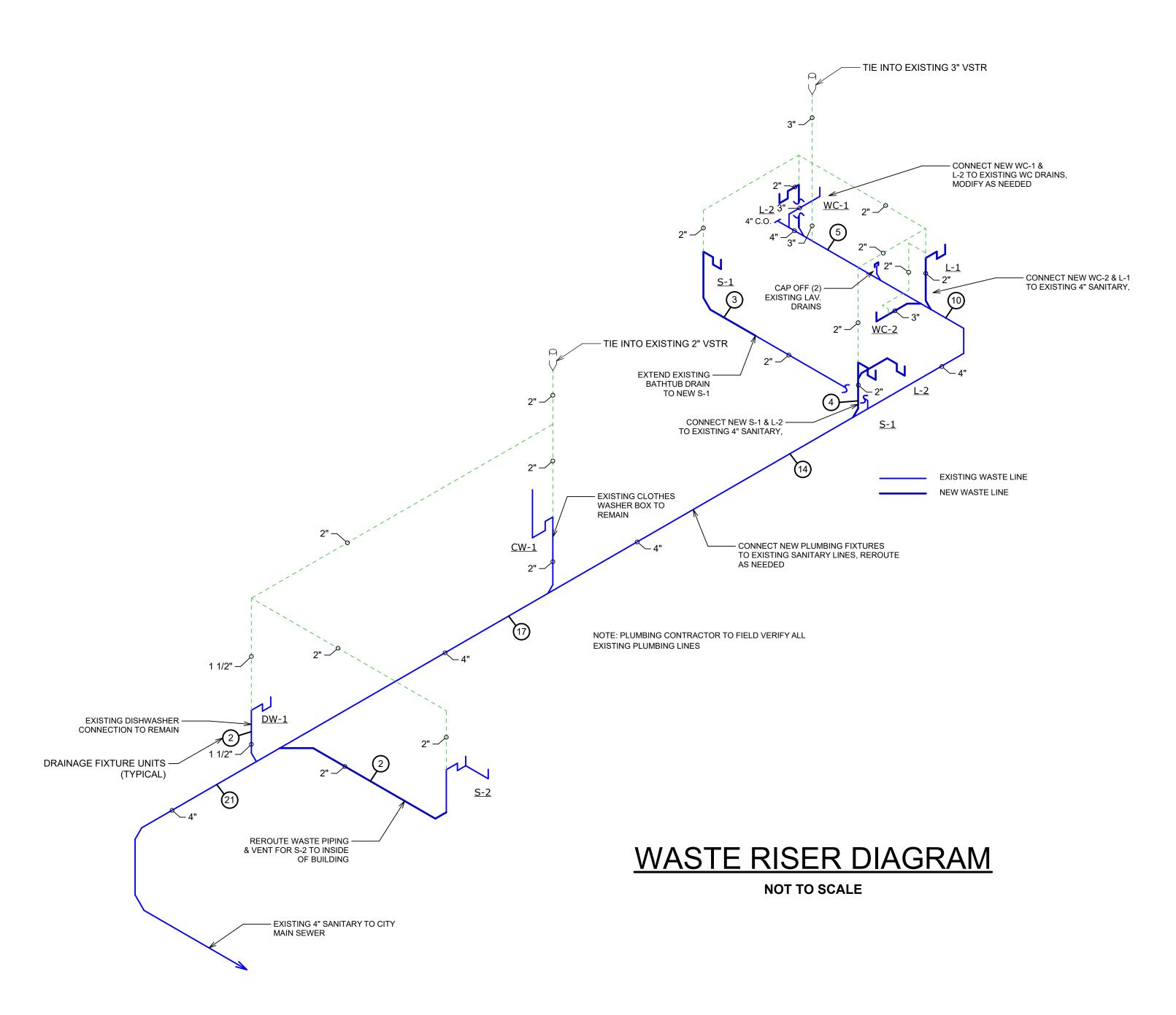
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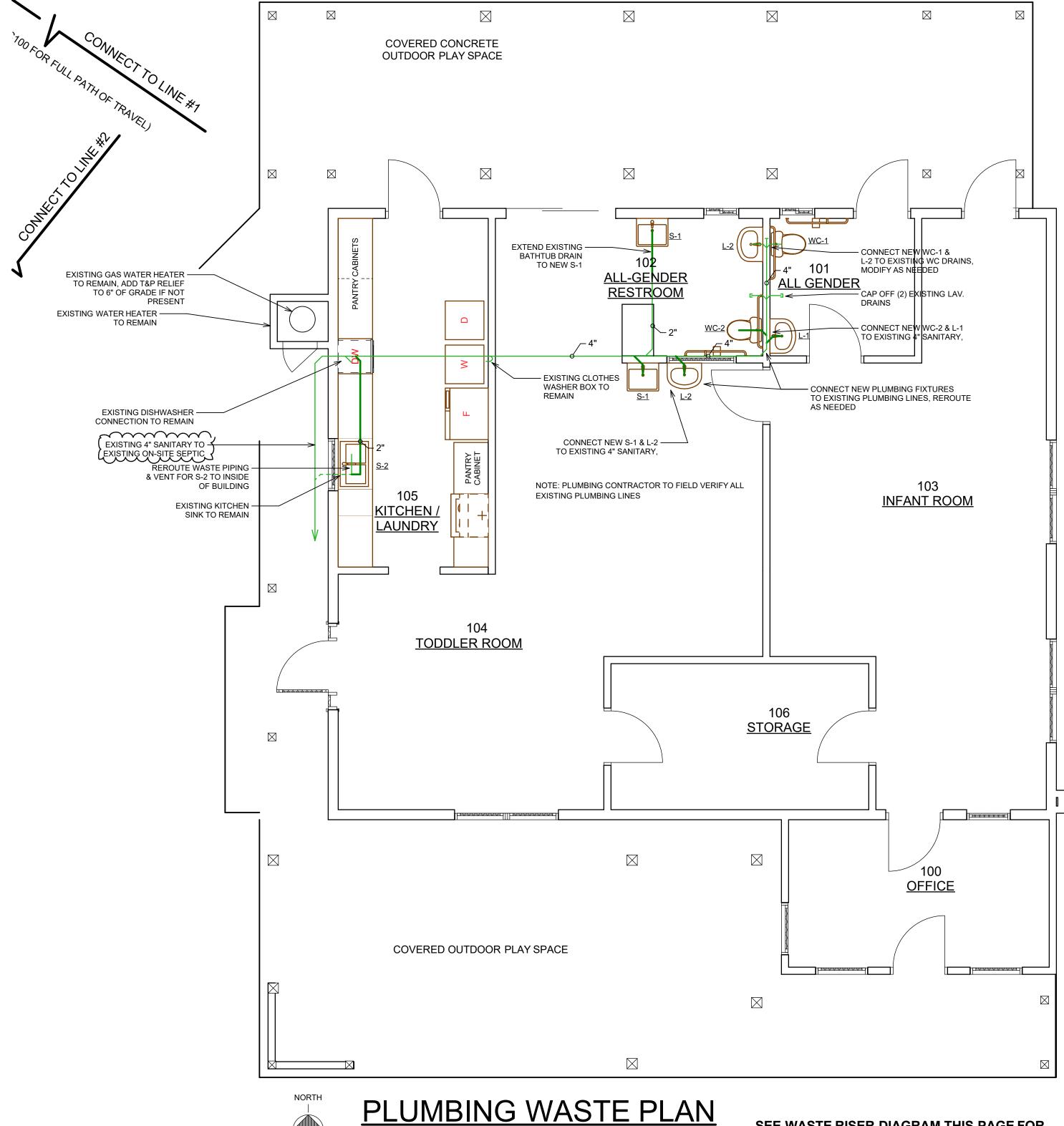
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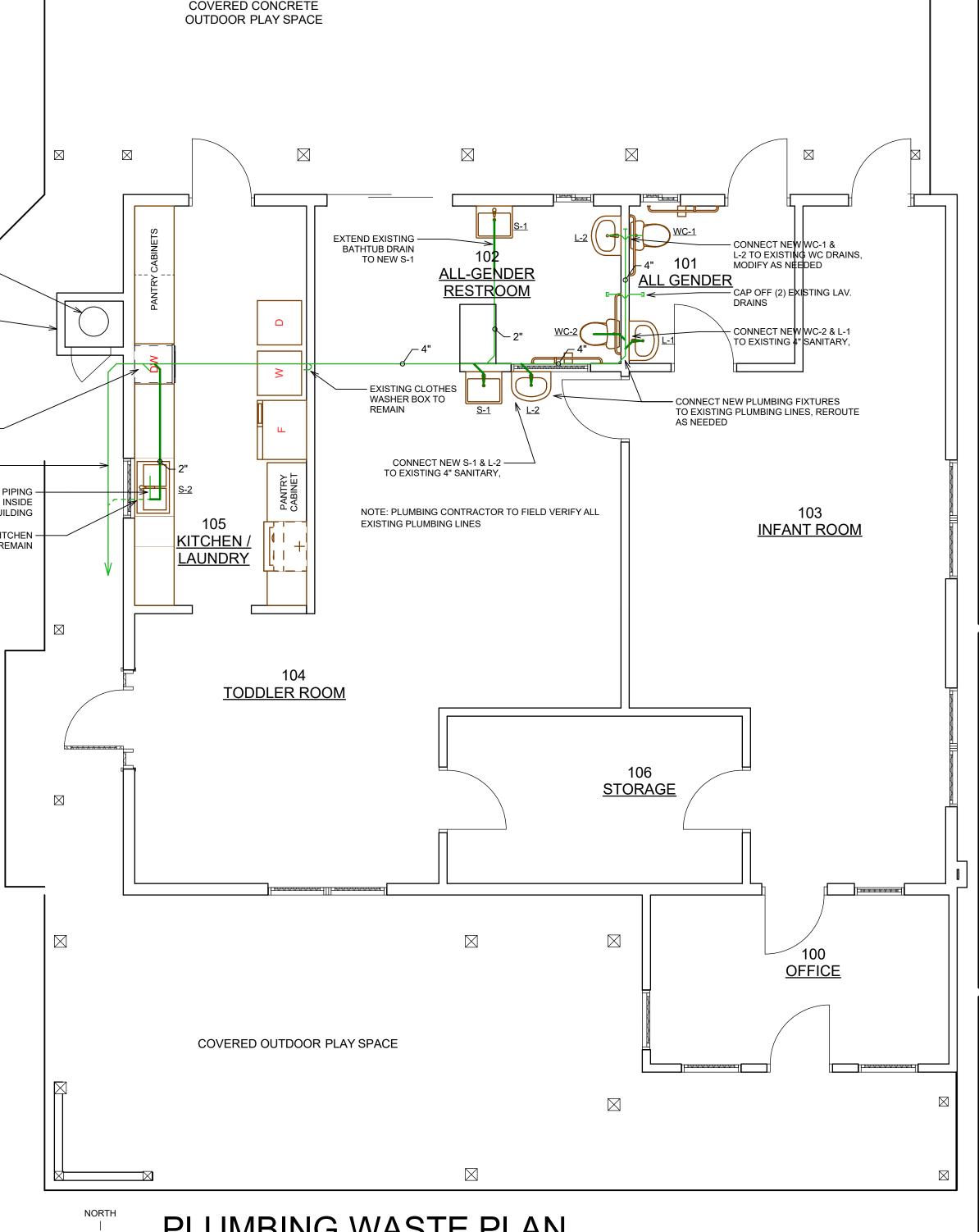
SCALE: 1/4" = 1'-0"

SYM	TYPE OF FIXTURE	QTY.	CATALOG NO.	DFU	TOTAL DFU	WSFU	TOTAL WSFU	REMARKS
WC-1	ADA WATER CLOSET	1	KOHLER "KINGSTON" K-25077	4	4	2.5	2.5	PROVIDE BEMIS 1655-SS/C ELONGATED, OPEN FRONT SEAT; 16 1/2" BOWL HEIGHT; 1.28 gpf
WC-2	PRIMARY WATER CLOSET	1	AMERICAN STANDARD "BABY DEVORO" 2315.228	4	4	2.5	2.5	PROVIDE OPEN FRONT SEAT; 10 1/4" BOWL HEIGHT; 1.28 gpf
L-1	ADA WALL-HUNG LAVATORY	1	KOHLER "KINGSTON" MODEL K-2005	1	1	1	1	INSTALL @ 34" HEIGHT ABOVE FF., PROVIDE TEMPERING VALVE SETTING MAX. TEMP. @ 120 F, PER ASSE 1070
	LAVATORY FAUCET	1	CHICAGO FAUCET 802-VE2805-317ABCP	-	-	-	-	
L-2	KIDS WALL-HUNG LAVATORY	2	KOHLER "KINGSTON" MODEL K-2005	1	2	1	2	INSTALL @ 22" HEIGHT ABOVE FF., PROVIDE TEMPERING VALVE SETTING MAX. TEMP. @ 120 F, PER ASSE 1070
	LAVATORY FAUCET	2	CHICAGO FAUCET 802-VE2805-317ABCP	-	-	-	-	
S-1	SERVICE SINK	2	ADVANCE TABCO WSS-16-25	3	6	3	6	INSTALL @ 34" HEIGHT ABOVE FF., PROVIDE TEMPERING VALVE SETTING MAX. TEMP. @ 120 F, PER ASSE 1070
	SINK FAUCET	2	CHICAGO FAUCET NO. 631-GN8AE35ABCP	-	-	-	-	
S-2	EXISTING KITCHEN SINK	1	EXISTING	2	2	1.5	1.5	
	EXISTING SINK FAUCET	1	EXISTING	-	-	-	-	

2. ALL FAUCETS SHALL BE POLISHED CHROME.

PLUMBING NOTES

- 1. EACH FIXTURE IS TO HAVE A HOT & COLD SHUTOFF VALVE.
- 2. N.I.C. NOT IN CONTRACT.
- 3. V.S.T.R. VENT STACK THRU ROOF.
- 4. ALL FIXTURES AND FLOOR DRAINS ARE TO BE PROVIDED WITH A TRAP AND BE PROPERLY VENTED.
- 5. AGGREGATE CROSS-SECTIONAL AREA OF THE VENT SHALL NOT BE LESS THAN THAT OF THE LARGEST REQUIRED BUILDING SEWER.
- 6. ALL PLUMBING TO BE INSTALLED IN ACCORDANCE WITH STATE OF CALIFORNIA PLUMBING CODE.
- 7. PROVIDE A MINIMUM OF 1/4" PER FOOT SLOPE ON ALL DRAIN LINES.
- 8. PROVIDE WATER HEATER TEMPERATURE / PRESSURE RELIEF VALVE WITH DRAIN TO EXTERIOR OF BUILDING WITH 90 DEGREE FITTING FACING DOWN, MINIMUM 6" AND MAXIMUM OF 24" ABOVE FINISHED GRADE
- 9. PROVIDE APPROVED NON-REMOVABLE BACKFLOW PREVENTION DEVICES ON ALL HOSE BIBS.
- 10. ALL WATER CLOSET SEATS FOR PUBLIC USE SHALL BE OF THE ELONGATED TYPE AND HAVE OPEN SPLIT FACE TYPE.
- 11. WALLS AND PARTITIONS WITHIN 2 FEET OF SERVICE SINKS, URINALS AND WATER CLOSETS SHALL HAVE A SMOOTH, HARD, NONABSORBENT SURFACE, TO A HEIGHT OF NOT LESS THAN 4 FEET ABOVE THE FLOOR, AND EXCEPT FOR STRUCTURAL ELEMENTS, THE MATERIALS USED IN SUCH WALLS SHALL BE OF A TYPE THAT IS NOT ADVERSELY AFFECTED BY MOISTURE.



SEE WASTE RISER DIAGRAM THIS PAGE FOR REVISIONS: ADDITIONAL PIPE SIZING AND VENTING 201025 COUNTY SUBMITAL

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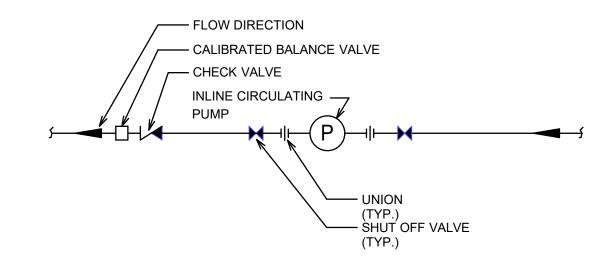
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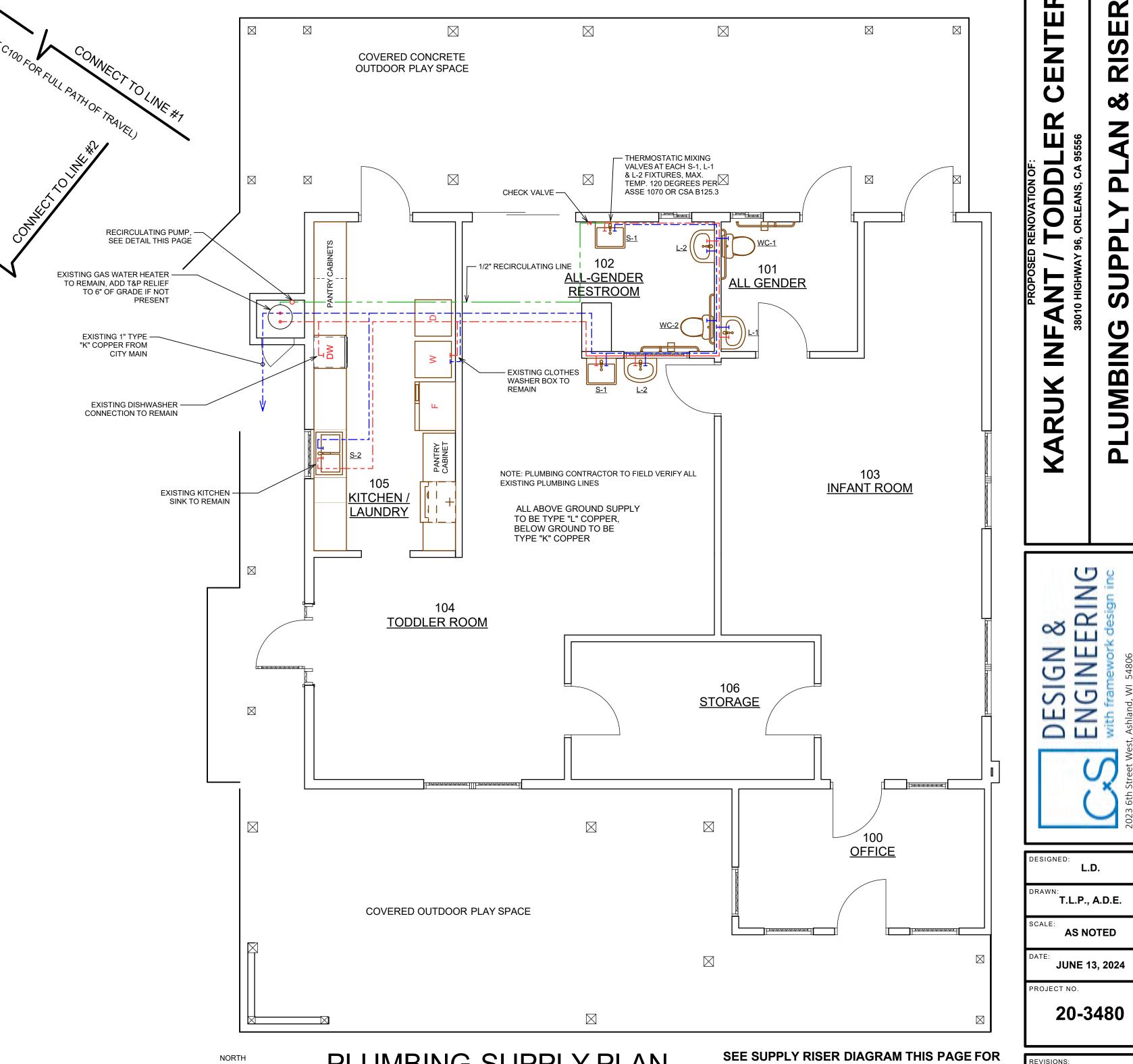
SUPPLY RISER DIAGRAM

NOT TO SCALE



RECIRC DETAIL

SCALE: 1' = 1'-0"



PLUMBING SUPPLY PLAN SCALE: 1/4" = 1'-0"

ADDITIONAL PIPE SIZING

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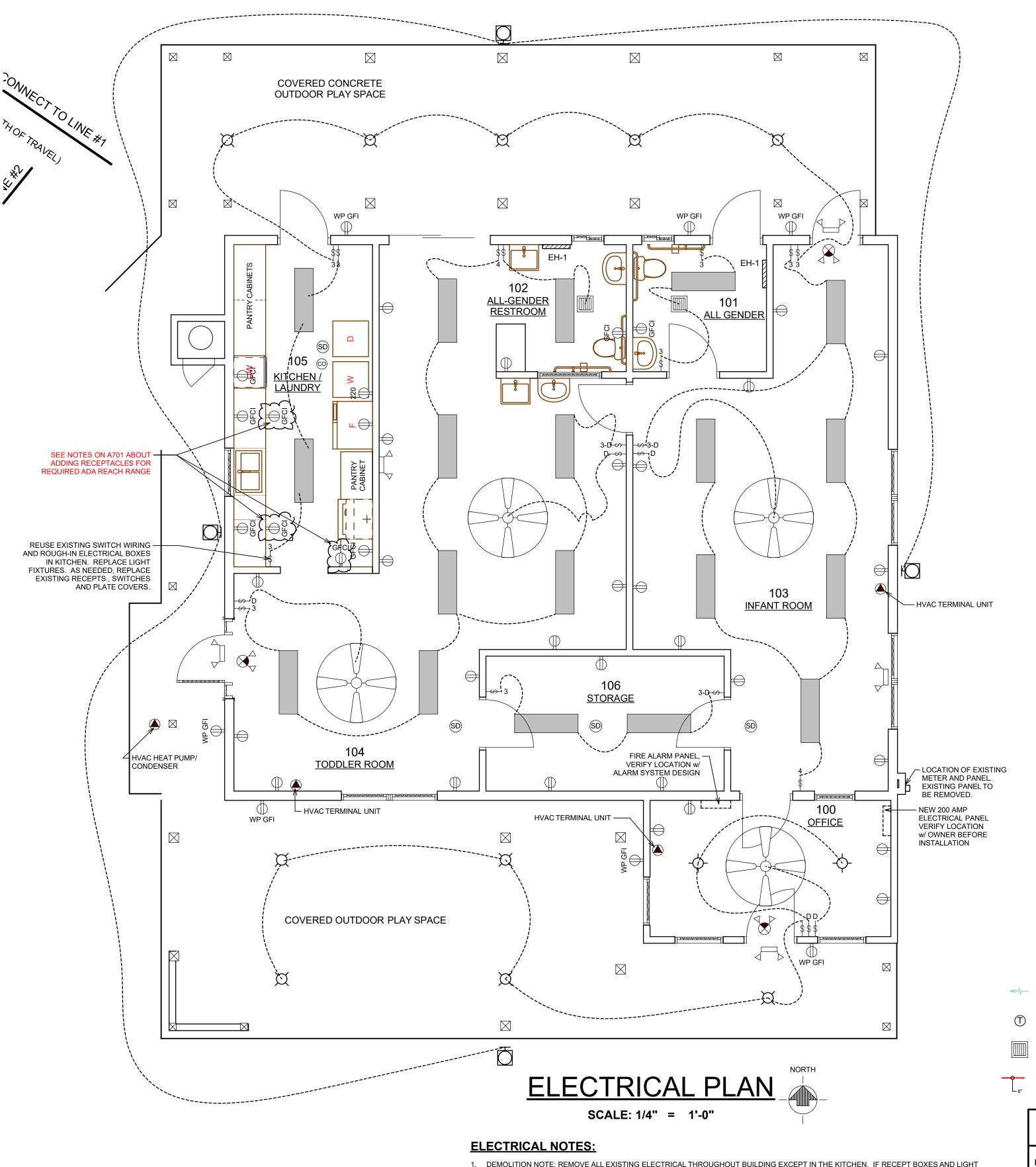
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231228 UPDATED SITE



P101



- 1. DEMOLITION NOTE: REMOVE ALL EXISTING ELECTRICAL THROUGHOUT BUILDING EXCEPT IN THE KITCHEN. IF RECEPT BOXES AND LIGHT BOXES WORK WITH NEW LAYOUT, THEY CAN BE REUSED, BUT NEW FIXTURES AND DEVICES NEED TO BE INSTALLED, AND NEW WIRING PULLED TO THEM.
- 2. PROVIDE CONCRETE-ENCASED ELECTRODE.
- 3. BOND ALL METAL GAS AND WATER LINES.
- 4. PROVIDE WEATHER TIGHT COVERS OVER ALL EXTERIOR GFI OUTLETS.
- 5. THE FRONT EDGE OF THE LISTED ELECTRICAL BOX, PLASTER RING, EXTESION RING, OR LISTED EXTENDER WILL NOT BE SET BACK
- OF THE FINISHED WALL OR CEILING SURFACE MORE THAN 1/4" MAXIMUM.
- 6. THE FINISH WALL OR CEILING SURFACE SHALL HAVE NO GAPS OR OPEN SPACES GREATER THAN 1/8" AT

FROM THE EXSTING POWER POLE TO THE METER LOCATED ON THE EAST EXTERIOR WALL.

THE EDGE OF THE LISTED ELECTRICAL BOX. 7. CONTRACTOR TO CORDINATE WITH LOCAL UTILITY COMPANY AND INSTALLA NEW 200 AMP UNDERGROUND ELECTRICAL SERVICE

	ELECTRIC HEATER SCHEDULE									
MARK	LOCATION	TYPE	BTU/H	WATTS	AMPS	ELEC.	BASED ON			
EH-1	BATHROOMS	ELECTRIC WALL MOUNT HEATER	5115 / 2558	1500 / 750	12.5 / 6.3	120/60/1	Q-MARK CZ1512IF			

 \boxtimes COVERED CONCRETE **OUTDOOR PLAY SPACE** \boxtimes ELECTRIC WALL HEATER -DUCT EXHAUST FAN — THROUGH ROOF PER MFR RECOMMENDATION **ALL-GENDER** DRYER VENT, DUCT USING RIGID DUCT ONLY TO KITCHEN / EXTERIOR PER MFR RECOMMENDATION **LAUNDRY** VENT OUT ROOF PER MFR RECOMMENDATION 4 TON MINI SPLIT T-STAT FOR HEAT PUMP CONDENSER TERMINAL UNIT **STORAGE** - WALL MOUNTED MINI-SPLIT TERMINAL UNIT WALL MOUNTED MINI-SPLIT — TERMINAL UNIT COVERED OUTDOOR PLAY SPACE **SYMBOLS:** ✓ AIR SUPPLY OR RETURN **HVAC NOTES:** THERMOSTAT EXHAUST FAN FINISHED FLOOR. PROPOSED HVAC PLAN DUCT (SIZED AS NOTED) SCALE: 1/4" = 1'-0" THE PLAN, **EXHAUST FAN SCHEDULE** WITH CODES PER ATS. (IF REQUIRED) COMMENTS TYPE DUTY CFM ELECTRIC **BASED ON BROAN / NUTONE GENERAL** RESTROOM 120 - 1 - 60 EZFIT 80 CFM **EXHAUST** EXHAUST MODEL EZ80N NOTES: 1. DUCT FROM VENTILATOR TO THE EXTERIOR TO BE RIGID ALUMINUM 26 GA. RIGID CONSTRUCTION WITH SEALED JOINTS. 2. INTERLOCK WITH ROOM LIGHT FIXTURE SWITCH IN EACH ROOM THE VENTILATOR IS SERVING. WILL BE RESPONSIBLE FOR THIS TASK.

DUCTLESS MINI SPLIT A/C SYSTEM COOLING | HEATING | ELEC. MARK MODEL BTU/H BTU/H 12,000 TO 12,000 TO 8 3/16"(W) x 14 9/16"(D **EXTERIOR** HEAT PUMP AOU45RLXFZ 48,000 x39 5/16"(H) MAX FUSE 30 AMP WALL MOUNTED FUJITSU 1,750 TO 1,750 TO 33 1/16"(W) x ASU7RLF1 7,000 7,000 8"(D) x 10 9/16"(H) RM 104,103 **FUJITSU** 6,000 TO 39 1/4"(W) x WALL MOUNTED TU-2 RM 100 ADU24RLF 24,000 24,000 9"(D) x 12 5/8"(H)

1. VERIFY ELECTRICAL REQUIREMENTS PRIOR TO ORDERING EQUIPMENT. 2. ALL CONDENSATE DRAINS FOR TU UNITS TO DRAIN TO EXTERIOR 3. PROVIDE CONTROLS FOR EACH TU UNIT IN THE ROOM THEY SERVE

1. ALL MECHANICAL CONTROLS SHALL BE LOCATED A MINIMUM OF 16" AND A MAXIMUM OF 48" ABOVE THE

ELECTRIC WALL HEATER -

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221216 BID ADDENDUM 1

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REVISIONS:

PPROVED:

T-STAT FOR TERMINAL UNIT

— DUCT EXHAUST FAN

INFANT ROOM

WALL MOUNTED MINI-SPLIT -

T-STÁT FOR 🧹

TERMINAL UNIT

THROUGH ROOF PER

MFR RECOMMENDATION

2. ALL HVAC EQUIPMENT IS TO BE CONTROLLED BY LOW VOLTAGE, ENERGY STAR COMPLIANT, PROGRAMMABLE SET BACK THERMOSTATS LOCATED IN AREAS AS SHOWN ON

3. ALL GAS PIPING INSTALLATIONS SHALL COMPLY

4. HVAC CONTRACTOR TO PROVIDE APPLIANCE INSTALLATION INSTRUCTION, OPERATION AND MAINTENANCE (O&M) MANUALS TO OWNER AND HVAC DESIGNER AT END OF PROJECT.

5. ALL REQUIRED TESTING AND BALANCING IS TO BE COMPLETED BY THE HVAC CONTRACTOR AT THE END OF THE PROJECT. A REPORT IS TO BE PROVIDED TO THE ARCHITECT AND OWNER.

6. ALL DUCTWORK IS TO BE SEALED AND KEPT FREE FROM DEBRIS, DUST, ETC. DURING THE CONSTRUCTION PHASE OF THE PROJECT WORK. THE HVAC CONTRACTOR

7. ALL BATHROOM EXHAUST FANS SHALL BE CONNECTED TO LIGHT SWITCH AND TIMER TO KEEP FAN RUNNING FOR 10 MINUTES AFTER SWITCH IS TURNED OFF.

8. ALL DRYER VENTS, BATHROOM EXHAUST FAN VENTS AND RANGE HOODS SHALL BE ROUTED TO EXIT THE BUILDING. DUCT RUN DISTANCES AND OFFSETS SHALL CONFORM TO THE INTERNATIONAL MECH. CODE & MANUFACTURER'S INSTALLATION INSTRUCTIONS.

9. EXHAUST CLOTHES DRYERS AND BATHROOM EXHAUST FANS TO EXTERIOR USING MIN. 4" DIA. RIGID VENT DUCT MATERIAL

FROM THE INTERFACE WITH THE EQUIPMENT. 10. PROVIDE RODENT AND CORROSION PROOF SCREEN

FOR OPENINGS GREATER THAN 1/4 INCH. 11. WALL HEATING UNITS SHALL BE INSTALLED IN ACCORDANCE WITH THE TERMS OF ITS LISTING AND IN ACCORDANCE WITH THE MANUFACTURER INSTALLATION INSTRUCTIONS.

OF CALIF M100

ELECTRICAL SYMBOLS

CEILING MOUNTED LIGHT FIXTURE

LINEAR FLUORESCENT LIGHT FIXTURE

WALL PACK SECURITY LIGHT SET DUSK TO DAWN CEILING FAN ONLY (NO LIGHT)

EXHAUST FAN

EXIT LIGHT W/ DUAL REMOTE HEADS

EMERGENCY LIGHT w/ DUAL HEADS (INTERCONNECTED AND HARD WIRED)

© C02 DETECTOR

THREE-WAY SWITCH

FOUR-WAYSWITCH

3-WAY DIMMER SWITCH

DUPLEX RECEPTACLE

(GFCI) RECEPTACLE

220V RECEPTACLE

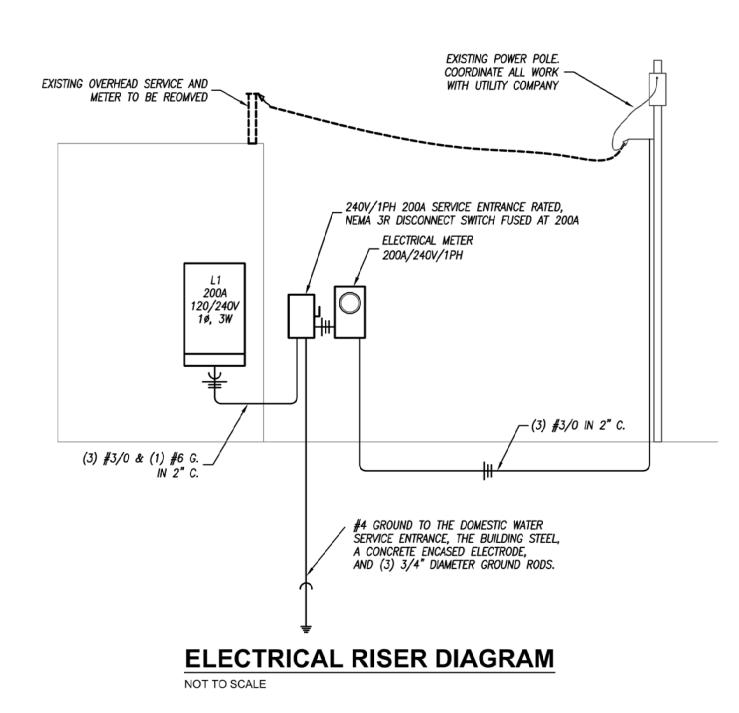
DIMMER SWITCH

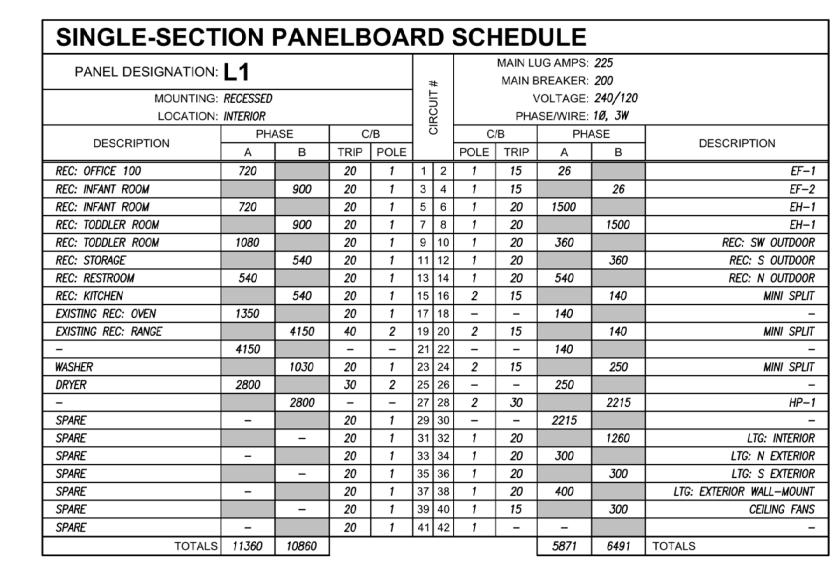
GROUND-FAULT CIRCUIT INTERRUPTER

WEATHERPROOF GFI RECEPTACLE

SPECIAL PURPOSE RECEPTACLE

 VERIFY ELECTRICAL REQUIREMENTS PRIOR TO ORDERING EQUIPMENT. 2. MOUNT WALL HEATERS A MINIMUM OF 6" ABOVE FINISHED FLOORS.





PANELBOARD SIZING LOAD							
LOAD DESCRIPTION	CONNECTED	DEMAND	CODE MIN. (VA)				
LIGHTS	2,260	1.25	2,825				
RECEPTACLES	9,580 1	10KVA + 50% RES	T 9,580				
MOTORS	352 1.25	x LARGEST + SUM OF	rest 427				
AIR CONDITIONING	5,490	1.00	5,490				
SPACE HEATING	3,000	0.00	0				
CONTINUOUS	5,600	1.25	7,000				
NON-CONTINUOUS	8,300	1.00	8,300				
MISC. LOADS 1	0	1.00	0				
MISC. LOADS 2	0	1.00	0				
		SIZING LOAD:	33,622				
	SIZIN	G LOAD (AMPS):	140				

CONNECTED PHASE LOADS								
PHASE	VA	AMPS						
Α	17,231	143.6						
В	17,351	144.6						
TOTALS	34,582	144.1						
	_	_						

REMARKS: 1. 2. 3.

GENERAL NOTES

VERIFY EXISTING POWER TO KITCHEN EQUIPMENT AND CLOTHES DRYER. PROVIDE NECESSARY CIRCUIT BREAKER.

PEARSON KENT MCKINLEY RAAF ENGINEERS LLC

LENEXA, KS 66215

WWW.PKMRENG.COM

13300 W 98TH STREET

CENTER

913,492,2400

221216 BID ADDENDUM 1

ISSUED FOR:	
DESCRIP	PTION DATE
1 FOR PERMIT	12/16/22
2	
3	
© PEARSON F	ENT MCKINLEY RAAF ENGINEERS, LLC
DRAWN BY:	BL
CHECKED BY:	MR
KIDE	R/SCHEDULE
DATE:	PKMR PROJECT:
2/15/20	22 22.621
SHEET NUMBER:	
	E100

to provide shade over 50 percent of the parking area within 15 years.

provide shade over 20 percent of the hardscape area within 15 years.

Appendix A5, are not included in the total area calculation.

5.302.1 Definitions. The following terms are defined in Chapter 2 (and are included here for reference)

EVAPOTRANSPIRATION ADJUSTMENT FACTOR (ETAF) [DSA-SS]. An adjustment factor when applied to

reference evapotranspiration that adjusts for plant factors and irrigation efficiency, which ae two major influences on

FOOTPRINT AREA [DSA-SS]. The total area of the furthest exterior wall of the structure projected to natural grade,

METERING FAUCET. A self-closing faucet that dispenses a specific volume of water for each actuation cycle. The

GRAYWATER. Pursuant to Health and Safety Code Section 17922.12, "graywater" means untreated wastewater that

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). The California ordinance regulating landscape

landscapes greater than 2500 square feet meet an irrigation water budget developed based on landscaped area and

maintenance practices. Local agencies are required to adopt the updated MWELO, or adopt a local ordinance at least

POTABLE WATER. [HCD] Water that is satisfactory for drinking, culinary, and domestic puroses, and meets the U.S.

SUBMETER. A meter installed subordinate to a site meter. Usually used to measure water intended for one purpose, such as landscape irrigation. For the purposes of CALGreen, a dedicated meter may be considered a submeter.

WATER BUDGET. Is the estimated total landscape irrigation water use which shall not exceed the maximum applied

water allowance calculated in accordance with the Department of Water Resources Model Efficient Landscape

5.303.1 METERS. Separate submeters or metering devices shall be installed for the uses described in Sections

b. Makeup water for evaporative coolers greater than 6 gpm (0.04 L/s).

within a new building or within an addition that is projected to consume more than 1,000 gal/day.

urinals) and fittings (faucets and showerheads) shall comply with the following:

5.303.3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and

5.303.1.1 Buildings in excess of 50,000 square feet. Separate submeters shall be installed as follows:

1. For each individual leased, rented or other tenant space within the building projected to consume

restaurant or food service, medical or dental office, laboratory, or beauty salon or barber shop.

2. Where separate submeters for individual building tenants are unfeasible, for water supplied to the

a. Makeup water for cooling towers where flow through is greater than 500 gpm (30 L/s).

c. Steam and hot water boilers with energy input more than 500,000 Btu/h (147 kW).

5.303.1.2 Excess consumption. A separate submeter or metering device shall be provided for any tenant

5.303.3.1 Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per

flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense

Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of

5.303.3.2.1 Wall-mounted Urinals. The effective flush volume of wall-mounted urinals shall not exceed

5.303.3.2.2 Floor-mounted Urinals. The effective flush volume of floor-mounted or other urinals shall

5.303.3.3.1 Single showerhead. Showerheads shall have a maximum flow rate of not more than 1.8

5.303.3.3.2 Multiple showerheads serving one shower. When a shower is served by more than one

single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to

showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a

gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA

more than 100 gal/day (380 L/day), including, but not limited to, spaces used for laundry or cleaners,

design, installation and maintenance practices that will ensure commercial, multifamily and other developer installed

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). [HCD] The California model ordinance

(California Code of Regulations, Title 23, Division 2, Chapter 2.7), regulating landscape design, installation and

POTABLE WATER. Water that is drinkable and meets the U.S. Environmental Protection Agency (EPA) Drinking

Environmental Protection Agency (EPA) Drinking Water Standards and the requirements of the Health Authority

RECYCLED WATER. Water which, as a result of treatment of waste, is suitable for a direct beneficial use or a controlled use that would not otherwise occur [Water Code Section 13050 (n)]. Simply put, recycled water is water

treated to remove waste matter attaining a quality that is suitable to use the water again.

SECTION 5.303 INDOOR WATER USE

following subsystems:

Specification for Tank-Type toilets.

two reduced flushes and one full flush.

not exceed 0.5 gallons per flush.

WaterSense Specification for Showerheads.

allow only one shower outlet to be in operation at a time.

Note: A hand-held shower shall be considered a showerhead

5.303.3.3 Showerheads. [BSC-CG]

has not been contaminated by any toilet discharge, has not been affected by infectious, contaminated, or unhealthy

bodily wastes, and does not present a threat from contamination by unhealthful processing, manufacturing, or

washbasins, clothes washing machines and laundry tubs, but does not include waste water from kitchen sinks or

operating wastes. "Graywater" includes, but is not limited to wastewater from bathtubs, showers, bathroom

included in the total area calculations

provide shade of 20% of the landscape area within 15 years.

DIVISION 5.2 ENERGY EFFICIENCY

the amount of water that needs to be applied to the landscape.

volume or cycle duration can be fixed or adjustable.

not including exterior areas such as stairs, covered walkways, patios and decks.

SECTION 5.201 GENERAL

SECTION 5.301 GENERAL

SECTION 5.302 DEFINITIONS

and in wastewater conveyance.

as effective as the MWELO.

4

ESIGNED L.D. T.L.P., A.D.E.

AS NOTED JUNE 13, 2024

20-3480

REVISIONS:

201025 COUNTY SUBMITAL 1118 COUNTY RE-SUBMITAL

21216 BID ADDENDUM 1 30125 RE-BID DRAWINGS

231228 UPDATED SITE

PPROVED

NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2020, Includes August 2019 Supplement) **CHAPTER 3** 5.106.2 STORMWATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB ONE OR MORE ACRES OF LAND. Comply with all lawfully enacted stormwater discharge regulations for projects that (1) disturb one acre or **GREEN BUILDING** more of land, or (2) disturb less than one acre of land but are part of a larger common plan of development sale. **SECTION 301 GENERAL** Note: Projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of the larger common plan of development or sale must comply with the post-construction requirements detailed in the **301.1 SCOPE.** Buildings shall be designed to include the green building measures specified as mandatory in applicable National Pollutant Discharge Elimination System (NPDES) General permit for Stormwater Discharges the application checklists contained in this code. Voluntary green building measures are also included in the Associated with Construction and Land Disturbance Activities issued by the State Water Resources Control Board or application checklists and may be included in the design and construction of structures covered by this code, the Lahontan Regional Water Quality Control Board (for projects in the Lake Tahoe Hydrologic Unit). but are not required unless adopted by a city, county, or city and county as specified in Section 101.7. The NPDES permits require postconstruction runoff (post-project hydrology) to match the preconstruction runoff 301.3 NONRESIDENTIAL ADDITIONS AND ALTERATIONS. [BSC-CG] The provisions (pre-project hydrology) with the installation of postconstruction stormwater management measures. The NPDES of individual sections of Chapter 5 apply to newly constructed buildings, building additions of 1,000 square permits emphasize runoff reduction through on-site stormwater use, interception, evapotranspiration, and infiltration feet or greater, and/or building alterations with a permit valuation of \$200,000 or above (for occupancies within through nonstructural controls, such as Low Impact Development (LID) practices, and conversation design measures. the authority of California Building Standards Commission). Code sections relevant to additions and Stormwater volume that cannot be addressed using nonstructural practices is required to be captured in structural alterations shall only apply to the portions of the building being added or altered within the scope of the practices and be approved by the enforcing agency. Refer to the current applicable permits on the State Water Resources Control Board website at: A code section will be designated by a banner to indicate where the code section only applies to newly www.waterboards.ca.gov/constructionstormwater. Consideration to the stormwater runoff management measures constructed buildings [N] or to additions and/or alterations [A]. When the code section applies to both, no should be given during the initial design process for appropriate integration into site development 301.3.1 Nonresidential additions and alterations that cause updates to plumbing fixtures only: 5.106.4 BICYCLE PARKING. For buildings within the authority of California Building Standards Commission as specified in Section 103, comply with Section 5,106.4.1. For buildings within the authority of the Division of the State Note: On and after January 1, 2014, certain commercial real property, as defined in Civil Code Section Architect pursuant to Section 105, comply with Section 5.106.4.2 1101.3, shall have its noncompliant plumbing fixtures replaced with appropriate water-conserving plumbing fixtures under specific circumstances. See Civil Code Section 1101.1 et seq. for definitions, **5.106.4.1 Bicycle parking. [BSC-CG]** Comply with Sections 5.106.4.1.1 and 5.106.4.1.2; or meet the types of commercial real property affected, effective dates, circumstances necessitating replacement of noncompliant plumbing fixtures, and duties and responsibilities for ensuring compliance. **5.106.4.1.1 Short-term bicycle parking.** If the new project or an addition or alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' **301.3.2 Waste Diversion.** The requirements of Section 5.408 shall be required for additions and entrance, readily visible to passers-by, for 5% of new visitor motorized vehicle parking spaces being alterations whenever a permit is required for work. added, with a minimum of one two-bike capacity rack. Exception: Additions or alterations which add nine or less visitor vehicular parking spaces 301.4 PUBLIC SCHOOLS AND COMMUNITY COLLEGES. (see GBSC) 301.5 HEALTH FACILITIES. (see GBSC) **5.106.4.1.2** Long-term bicycle parking. For new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5 percent of the tenant-occupant vehicular parking SECTION 302 MIXED OCCUPANCY BUILDINGS spaces with a minimum of one bicycle parking facility. **302.1 MIXED OCCUPANCY BUILDINGS.** In mixed occupancy buildings, each portion of a building **5.106.4.1.3** For additions or alterations that add 10 or more tenant-occupant vehicular parking spaces, shall comply with the specific green building measures applicable to each specific occupancy. provide secure bicycle parking for 5 percent of the tenant vehicular parking spaces being added, with a minimum of one bicycle parking facility. **SECTION 303 PHASED PROJECTS 5.106.4.1.4** For new shell buildings in phased projects provide secure bicycle parking for 5 percent of the anticipated tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility. **303.1 PHASED PROJECTS.** For shell buildings and others constructed for future tenant improvements, only those code measures relevant to the building components and systems considered to be new **5.106.4.1.5** Acceptable bicycle parking facility for Sections 5.106.4.1.2, 5.106.4.1.3, and 5.106.4.1.4 shall construction (or newly constructed) shall apply. be convenient from the street and shall meet one of the following: **303.1.1 Initial Tenant improvements.** The provisions of this code shall apply only to the initial tenant 1. Covered, lockable enclosures with permanently anchored racks for bicycles; improvements to a project. Subsequent tenant improvements shall comply with the scoping provisions in 2. Lockable bicycle rooms with permanently anchored racks; or Section 301.3 non-residential additions and alterations. 3. Lockable, permanently anchored bicycle lockers. **ABBREVIATION DEFINITIONS:** Note: Additional information on recommended bicycle accommodations may be obtained from Department of Housing and Community Development Sacramento Area Bicycle Advocates. California Building Standards Commission Division of the State Architect, Structural Safety **5.106.4.2 Bicycle parking. [DSA-SS]** For public schools and community colleges, comply with Sections OSHPD Office of Statewide Health Planning and Development Low Rise High Rise 5.106.4.2.1 Student bicycle parking. Provide permanently anchored bicycle racks conveniently Additions and Alterations accessed with a minimum of four two-bike capacity racks per new building. **5.106.4.2.2 Staff bicycle parking.** Provide permanent, secure bicycle parking conveniently accessed with a minimum of two staff bicycle parking spaces per new building. Acceptable bicycle parking facilities shall be convenient from the street or staff parking area and shall meet one of the following: NONRESIDENTIAL MANDATORY MEASURES 1. Covered, lockable enclosures with permanently anchored racks for bicycles; 2. Lockable bicycle rooms with permanently anchored racks; or **DIVISION 5.1 PLANNING AND DESIGN** B. Lockable, permanently anchored bicycle lockers. **SECTION 5.101 GENERAL 5.106.5.2 DESIGNATED PARKING FOR CLEAN AIR VEHICLES.** In new projects or additions or alterations that add 10 or more vehicular parking spaces, provide designated parking for any combination of low-emitting, The provisions of this chapter outline planning, design and development methods that include environmentally fuel-efficient and carpool/van pool vehicles as follows: responsible site selection, building design, building siting and development to protect, restore and enhance the environmental quality of the site and respect the integrity of adjacent properties. TABLE 5.106.5.2 - PARKING **SECTION 5.102 DEFINITIONS TOTAL NUMBER OF PARKING SPACES** 5.102.1 DEFINITIONS The following terms are defined in Chapter 2 (and are included here for reference) 10-25 **CUTOFF LUMINAIRES.** Luminaires whose light distribution is such that the candela per 1000 lamp lumens does not numerically exceed 25 (2.5 percent) at an angle of 90 degrees above nadir, and 100 (10 percent) at a vertical angle of 25-50 3 80 degrees above nadir. This applies to all lateral angles around the luminaire. 51-75 6 LOW-EMITTING AND FUEL EFFICIENT VEHICLES. 76-100 8 Eligible vehicles are limited to the following: 101-150 11 1. Zero emission vehicle (ZEV), including neighborhood electric vehicles (NEV), partial zero emission vehicle (PZEV), advanced technology PZEV (AT ZEV) or CNG fueled (original equipment manufacturer 151-200 16 only) regulated under Health and Safety Code section 43800 and CCR, Title 13, Sections 1961 and 1962. 2. High-efficiency vehicles, regulated by U.S. EPA, bearing High-Occupancy Vehicle (HOV) car pool lane AT LEAST 8% OF TOTAL 201 AND OVER stickers issued by the Department of Motor Vehicles. NEIGHBORHOOD ELECTRIC VEHICLE (NEV). A motor vehicle that meets the definition of "low-speed vehicle" 5.106.5.2.1 - Parking stall marking. Paint, in the paint used for stall striping, the following either in Section 385.5 of the Vehicle Code or in 49CFR571.500 (as it existed on July 1, 2000), and is certified to characters such that the lower edge of the last word aligns with the end of the stall striping and is visible beneath a parked vehicle: CLEAN AIR / VAN POOL / EV TENANT-OCCUPANTS. Building occupants who inhabit a building during its normal hours of operation as permanent **Note:** Vehicles bearing Clean Air Vehicle stickers from expired HOV lane programs may be occupants, such as employees, as distinguished from customers and other transient visitors. considered eligible for designated parking spaces. VANPOOL VEHICLE. Eligible vehicles are limited to any motor vehicle, other than a motortruck or truck tractor, designed for carrying more than 10 but not more than 15 persons including the driver, which is maintained and used **5.106.5.3 Electric vehicle (EV) charging. [N]** Construction shall comply with Section 5.106.5.3.1 primarily for the nonprofit work-related transportation of adults for the purpose of ridesharing. or Section 5.106.5.3.2 to facilitate future installation of electric vehicle supply equipment (EVSE). When EVSE(s) is/are installed, it shall be in accordance with the California Building Code, the **Note:** Source: Vehicle Code, Division 1, Section 668 California Electrical Code and as follows: **ZEV.** Any vehicle certified to zero-emission standards. **5.106.5.3.1 Single charging space requirements. [N]** When only a single charging space is required per Table 5.106.5.3.3, a raceway is required to be installed at the time of construction SECTION 5.106 SITE DEVELOPMENT and shall be installed in accordance with the California Electrical Code. Construction plans and 5.106.1 STORM WATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB LESS THAN ONE ACRE specifications shall include, but are not limited to, the following: **OF LAND.** Newly constructed projects and additions which disturb less than one acre of land, and are not part of a

with the following: Exceptions: [N]

5.106.5.3.4 [N] Identification. The service panel or subpanel(s) circuit directory shall identify the reserved overcurrent protective device space(s) for future EV charging as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE". **5.106.5.3.5** [N] Future charging spaces qualify as designated parking as described in Section 5.106.5.2 Designated parking for clean air vehicles. 1. The minimum requirements in the California Energy Code for Lighting Zones 0-4 as defined in Chapter 10, Section 10-114 of the California Administrative Code; and 2. Backlight (B) ratings as defined in IES TM-15-11 (shown in Table A-1 in Chapter 8); 3. Uplight and Glare ratings as defined in California Energy Code (shown in Tables 130.2-A and 130.2-B in 4. Allowable BUG ratings not exceeding those shown in Table 5.106.8, [N] or Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent 1. Luminaires that qualify as exceptions in Section 140.7 of the California Energy Code. 3. Building facade meeting the requirements in Table 140.7-B of the California Energy Code, Part 6. 4. Custom lighting features as allowed by the local enforcing agency, as permitted by Section 101.8 Alternate materials, designs and methods of construction. 1. See also California Building Code, Chapter 12, Section 1205.6 for college campus lighting requirements for parking facilities and walkways. 2. Refer to Chapter 8 (Compliance Forms, Worksheets and Reference Material) for IES TM-15-11 Table A-1, California Energy Code Tables 130.2-A and 130.2-B. 3. Refer to the California Building Code for requirements for additions and alterations. TABLE 5.106.8 [N] MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT AND GLARE (BLIC) RATINGS. 2. For property lines that abut public walkways, bikeways, plazas and parking lots, the property line may be considered to be 5 feet beyond the actual property line for purpose of determining corridors, the property line may be considered to be the centerline of the public roadway or public 3. If the nearest property line is less than or equal to two mounting heights from the back these reduced ratings. Decorative luminaires located in these areas shall meet *U*-value limits for manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following: 2. Water collection and disposal systems.

2. Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the TABLE 5.106.5.3.3 TOTAL NUMBER OF PARKING SPACES NUMBER OF REQUIRED SPACES 0-9 10-25 1 26-50 2 51-75 4 76-100 101-150 151-200 10 201 AND OVER 6% of total1 1. Calculation for spaces shall be rounded up to the nearest whole number.

1. Where there is insufficient electrical supply.

5.106.8 LIGHT POLLUTION REDUCTION. [N].I Outdoor lighting systems shall be designed and installed to comply

AND GLARE (BUG) RAT	TINGS 1,2						
ALLOWABLE RATING	LIGHTING ZONE LZ0	LIGHTING ZONE LZ1	LIGHTING ZONE LZ2	LIGHTING ZONE LZ3	LIGHTING ZONE LZ4		
MAXIMUM ALLOWABLE BACKLIGHT RATING 3							
Luminaire greater than 2 mounting heights (MH) from property line	N/A	No Limit	No Limit	No Limit	No Limit		
Luminaire back hemisphere is 1-2 MH from property line	N/A	B2	В3	B4	B4		
Luminaire back hemisphere is 0.5-1 MH from property line	N/A	B1	B2	В3	В3		
Luminaire back hemisphere is less than 0.5 MH from property line	N/A	В0	В0	B1	B2		
MAXIMUM ALLOWABLE UPLIGHT RATING (U)							
For area lighting 4	N/A	U0	U0	U0	U0		
For all other outdoor lighting,including decorative luminaires	N/A	U1	U2	U3	UR		
MAXIMUM ALLOWABLE GLARE RATING 5 (G)							
Luminaire greater than 2 MH from property line	N/A	G1	G2	G3	G4		
Luminaire front hemisphere is 1-2 MH from property line	N/A	G0	G1	G1	G2	7	
Luminaire front hemisphere is 0.5-1 MH from property line	N/A	G0	G0	G1	G1		Ω
Luminaire back hemisphere is less than 0.5 MH from property line	N/A	G0	G0	G0	G1		
1. IESNA Lighting Zones 0 and 5 California Energy Code and Chap				ined in the		_	U

compliance with this section. For property lines that abut public roadways and public transit transit corridor for the purpose of determining compliance with this section.

hemisphere of the luminaire distribution, the applicable reduced Backlight rating shall be met. 4. General lighting luminaires in areas such as outdoor parking, sales or storage lots shall meet

5. If the nearest property line is less than or equal to two mounting heights from the front hemisphere of the luminaire distribution, the applicable reduced Glare rating shall be met.

5.106.10 GRADING AND PAVING. Construction plans shall indicate how site grading or a drainage system will

French drains.

5. Other water measures which keep surface water away from buildings and aid in groundwater

Exception: Additions and alterations not altering the drainage path.

5.106.5.3.3 EV charging space calculations. [N] Table 5.106.5.3.3 shall be used to determine if 4. Water retention gardens. single or multiple charging space requirements apply for the future installation of EVSE.

Exceptions: On a case-by-case basis where the local enforcing agency has determined EV

2. A listed raceway capable of accommodating a 208/240 -volt dedicated branch circuit.

4. The raceway shall originate at a service panel or a subpanel serving the area, and shall

5. The service panel or subpanel shall have sufficient capacity to accommodate a minimum

40-ampere dedicated branch circuit for the future installation of the EVSE.

5.106.5.3.2 Multiple charging space requirements. [N] When multiple charging spaces are

and shall be installed in accordance with the California Electrical Code. Construction plans and

into listed suitable cabinet(s), box(es), enclosure(s) or equivalent. 3. Plan design shall be based upon 40-ampere minimum branch circuits.

to simultaneously charge all required EVs at its full rated amperage.

required per Table 5.106.5.3.3 raceway(s) is/are required to be installed at the time of construction

2. The raceway(s) shall originate at a service panel or a subpanel(s) serving the area, and

4. Electrical calculations shall substantiate the design of the electrical system, to include the

5. The service panel or subpanel(s) shall have sufficient capacity to accommodate the required number of dedicated branch circuit(s) for the future installation of the EVSE.

rating of equipment and any on-site distribution transformers and have sufficient capacity

shall terminate in close proximity to the proposed location of the charging equipment and

terminate in close proximity to the proposed location of the charging equipment and listed

The type and location of the EVSE.

3. The raceway shall not be less than trade size 1".

suitable cabinet, box, enclosure or equivalent.

specifications shall include, but are not limited to, the following:

1. The type and location of the EVSE.

Spill prevention and control. h. Other housekeeping BMPs acceptable to the enforcing agency. charging and infrastructure is not feasible based upon one or more of the following conditions:

DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.

larger common plan of development or sale, shall prevent the pollution of storm water runoff from the construction

5.106.1.1 Local ordinance. Comply with a lawfully enacted storm water management and/or erosion control

5.106.1.2 Best Management Practices (BMPs). Prevent the loss of soil through wind or water erosion by

Soil loss BMPs that should be considered for implementation as appropriate for each project include,

b. Preservation of natural features, vegetation, soil, and buffers around surface waters.

2. Good housekeeping BMPs to manage construction equipment, materials, non-stormwater discharges

and wastes that should be considered for implementation as appropriate for each project include, but

implementing an effective combination of erosion and sediment control and good housekeeping BMPs.

a. Scheduling construction activity during dry weather, when possible.

f. Protection of storm drain inlets (gravel bags or catch basin inserts).

c. Drainage swales or lined ditches to control stormwater flow.

. Perimeter sediment control (perimeter silt fence, fiber rolls).

Sediment trap or sediment basin to retain sediment on site.

d. Management of washout areas (concrete, paints, stucco, etc.).

Vehicle and equipment cleaning performed off site.

e. Control of vehicle/equipment fueling to contractor's staging area.

Other soil loss BMPs acceptable to the enforcing agency.

b. Material handling and waste management.

Building materials stockpile management.

d. Mulching or hydroseeding to stabilize disturbed soils.

activities through one or more of the following measures:

but are not limited to, the following:

e. Erosion control to protect slopes.

Stabilized construction exits.

are not limited to, the following:

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2020, Includes August 2019 Supplement)

NOT APPLICABLE RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER,

Z

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oo III

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 \Box

9

ESIGNED

REVISIONS:

L.D.

T.L.P., A.D.E.

AS NOTED

JUNE 13, 2024

20-3480

01025 COUNTY SUBMITAL

21216 BID ADDENDUM 1

30125 RE-BID DRAWINGS

31228 UPDATED SITE

1118 COUNTY RE-SUBMITAL

SECTION 5.407 WATER RESISTANCE AND MOISTURE MANAGEMENT **5.407.1 WEATHER PROTECTION.** Provide a weather-resistant exterior wall and foundation envelope as required by 5.303.3.4 Faucets and fountains. California Building Code Section 1402.2 (Weather Protection), manufacturer's installation instructions or local ordinance, whichever is more stringent. 5.303.3.4.1 Nonresidential Lavatory faucets. Lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi. **5.407.2 MOISTURE CONTROL.** Employ moisture control measures by the following methods. **5.303.3.4.2 Kitchen faucets.** Kitchen faucets shall have a maximum flow rate of not more than 1.8 5.407.2.1 Sprinklers. Design and maintain landscape irrigation systems to prevent spray on structures. gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons 5.407.2.2 Entries and openings. Design exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into buildings as follows: **5.303.3.4.3 Wash fountains.** Wash fountains shall have a maximum flow rate of not more than 1.8 **5.407.2.2.1 Exterior door protection.** Primary exterior entries shall be covered to prevent water gallons per minute/20 [rim space (inches) at 60 psi]. intrusion by using nonabsorbent floor and wall finishes within at least 2 feet around and perpendicular to such openings plus at least one of the following: **5.303.3.4.4 Metering faucets.** Metering faucets shall not deliver more than 0.20 gallons per cycle. . An installed awning at least 4 feet in depth. 5.303.3.4.5 Metering faucets for wash fountains. Metering faucets for wash fountains shall have a 2. The door is protected by a roof overhang at least 4 feet in depth. maximum flow rate of not more than 0.20 gallons per minute/20 [rim space (inches) at 60 psi]. 3. The door is recessed at least 4 feet. 4. Other methods which provide equivalent protection. Note: Where complying faucets are unavailable, aerators or other means may be used to achieve **5.407.2.2.2 Flashing.** Install flashings integrated with a drainage plane. 5.303.4 COMMERCIAL KITCHEN EQUIPMENT SECTION 5.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND **5.303.4.1 Food Waste Disposers.** Disposers shall either modulate the use of water to no more than 1 gpm when the disposer is not in use (not actively grinding food waste/no-load) or shall automatically shut off after no **5.408.1 CONSTRUCTION WASTE MANAGEMENT.** Recycle and/or salvage for reuse a minimum of 65% of the more than 10 minutes of inactivity. Disposers shall use no more than 8 gpm of water. Note: This code section does not affect local jurisdiction authority to prohibit or require disposer non-hazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent. 5.408.1.1 Construction waste management plan. Where a local jurisdiction does not have a construction and 5.303.5 AREAS OF ADDITION OR ALTERATION. For those occupancies within the authority of the California demolition waste management ordinance, submit a construction waste management plan that: Building Standards Commission as specified in Section 103, the provisions of Section 5.303.3 and 5.303.4 shall apply to new fixtures in additions or areas of alteration to the building. 1. Identifies the construction and demolition waste materials to be diverted from disposal by efficient usage, recycling, reuse on the project or salvage for future use or sale. 5.303.6 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures and fittings shall be installed in accordance with the California Plumbing Code, and shall meet the applicable standards referenced in Table 1701.1 2. Determines if construction and demolition waste materials will be sorted on-site (source-separated) or of the California Plumbing Code and in Chapter 6 of this code. 3. Identifies diversion facilities where construction and demolition waste material collected will be taken. 4. Specifies that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both. SECTION 5.304 OUTDOOR WATER USE 5.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. Nonresidential developments shall comply 5.408.1.2 Waste Management Company. Utilize a waste management company that can provide verifiable with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water documentation that the percentage of construction and demolition waste material diverted from the landfill Efficient Landscape Ordinance (MWELO), whichever is more stringent. Note: The owner or contractor shall make the determination if the construction and demolition waste material 1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code of Regulations, will be diverted by a waste management company Title 23. Chapter 2.7. Division 2. 2. MWELO and supporting documents, including a water budget calculator, are available at: **Exceptions to Sections 5.408.1.1 and 5.408.1.2:** https://www.water.ca.gov/. Excavated soil and land-clearing debris. 2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle 5.304.6 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. For public schools and community colleges, landscape projects as described in Sections 5.304.6.1 and 5.304.6.2 shall comply with the California Department of facilities capable of compliance with this item do not exist. Water Resources Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 490 of Chapter 3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities 2.7, Division 2, Title 23, California Code of Regulations, except that the evapotranspiration adjustment factor (ETAF) shall be 0.65 with an additional water allowance for special landscape areas (SLA) of 0.35. 5.408.1.3 Waste stream reduction alternative. The combined weight of new construction disposal that does Exception: Any project with an aggregate landscape area of 2,500 square feet or less may comply with the not exceed two pounds per square foot of building area may be deemed to meet the 65% minimum requirement prescriptive measures contained in Appendix D of the MWELO. as approved by the enforcing agency. **5.408.1.4 Documentation.** Documentation shall be provided to the enforcing agency which demonstrates **5.304.6.1 Newly constructed landscapes.** New construction projects with an aggregate landscape area equal to or greater than 500 square feet. compliance with Sections 5.408.1.1, through 5.408.1.3. The waste management plan shall be updated as necessary and shall be accessible during construction for examination by the enforcing agency. 5.304.6.2 Rehabilitated landscapes. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 1,200 square feet. 1. Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" located at www.bsc.ca.gov/Home/CALGreen.aspx may be used to assist in documenting compilance with the waste management plan. DIVISION 5.4 MATERIAL CONSERVATION AND RESOURCE 2. Mixed construction and demolition debris processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle). **EFFICIENCY 5.408.2 UNIVERSAL WASTE. [A]** Additions and alterations to a building or tenant space that meet the scoping **SECTION 5.401 GENERAL** provisions in Section 301.3 for nonresidential additions and alterations, shall require verification that Universal Waste 5.401.1 SCOPE. The provisions of this chapter shall outline means of achieving material conservation and resource items such as fluorescent lamps and ballast and mercury containing thermostats as well as other California prohibited efficiency through protection of buildings from exterior moisture, construction waste diversion, employment of Jniversal Waste materials are disposed of properly and are diverted from landfills. A list of prohibited Universal Waste techniques to reduce pollution through recycling of materials, and building commissioning or testing and adjusting. naterials shall be included in the construction documents. **Note**: Refer to the Universal Waste Rule link at: SECTION 5.402 DEFINITIONS http://www.dtsc.ca.gov/LawsRegsPolicies/Regs/upload/OEAR-A_REGS_UWR_FinalText.pdf **5.402.1 DEFINITIONS.** The following terms are defined in Chapter 2 (and are included here for reference) 5.408.3 EXCAVATED SOIL AND LAND CLEARING DEBRIS. 100 percent of trees, stumps, rocks and associated ADJUST. To regulate fluid flow rate and air patterns at the terminal equipment, such as to reduce fan speed or adjust vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed. BALANCE. To proportion flows within the distribution system, including sub-mains, branches and terminals, **Exception:** Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation. **BUILDING COMMISSIONING.** A systematic quality assurance process that spans the entire design and construction process, including verifying and documenting that building systems and components are planned, designed, installed, 1. If contamination by disease or pest infestation is suspected, contact the County Agricultural Commissioner and follow its direction for recycling or disposal of the material. tested, operated and maintained to meet the owner's project requirements. 2. For a map of know pest and/or disease quarantine zones, consult with the California Department of ORGANIC WASTE. Food waste, green waste, landscape and pruning wste, nonhazardous wood waste, and food Food and Agriculture. (www.cdfa.ca.gov) soiled paper waste that is mixed in with food waste. **SECTION 5.410 BUILDING MAINTENANCE AND OPERATIONS TEST.** A procedure to determine quantitative performance of a system or equipment **5.410.1 RECYCLING BY OCCUPANTS.** Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling **Exception**: Rural jurisdictions that meet and apply for the exemption in Public Resources Code 42649.82 (a)(2)(A) et seq. shall also be exempt from the organic waste portion of this section. **5.410.1.1 Additions.** All additions conducted within a 12-month period under single or multiple permits, resulting in an increase of 30% or more in floor area, shall provide recycling areas on site. Exception: Additions within a tenant space resulting in less than a 30% increase in the tenant space **5.410.1.2 Sample ordinance.** Space allocation for recycling areas shall comply with Chapter 18, Part 3, Division 30 of the Public Resources Code. Chapter 18 is known as the California Solid Waste Reuse and Recycling Access Act of 1991 (Act). **Note:** A sample ordinance for use by local agencies may be found in Appendix A of the document at the

5.410.2 COMMISSIONING. [N] New buildings 10,000 square feet and over. For new buildings 10,000 square feet and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements. Commissioning shall be performed in accordance with this section by trained personnel with experience on projects of comparable size and complexity. For I-occupancies that are not regulated by OSHPD or for I-occupancies and L-occupancies that are not regulated y the California Energy Code Section 100.0 Scope, all requirements in Sections 5.410.2 through 5.410.2.6 shall apply.

Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating. ventilation, air conditioning (HVAC) systems and controls, indoor lighting systems and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements

Commissioning requirements shall include:

- 1. Owner's or Owner representative's project requirements.
- 3. Commissioning measures shown in the construction documents.
- 4. Commissioning plan. 5. Functional performance testing.
- Documentation and training. 7. Commissioning report.

- 1. Unconditioned warehouses of any size. 2. Areas less than 10,000 square feet used for offices or other conditioned accessory spaces within
- unconditioned warehouses. 3. Tenant improvements less than 10,000 square feet as described in Section 303.1.1.
- 4. Open parking garages of any size, or open parking garage areas, of any size, within a structure.

Note: For the purposes of this section, unconditioned shall mean a building, area, or room which does not provide heating and or air conditioning.

Informational Notes:

- 1. IAS AC 476 is an accreditation criteria for organizations providing training and/or certification of commissioning personnel. AC 476 is available to the Authority Having Jurisdiction as a reference for qualifications of commissioning personnel. AC 476 des not certify individuals to conduct functional
- 2. Functional performance testing for heating, ventilation, air conditioning systems and lighting controls

5.410.2.1 Owner's or Owner Representative's Project Requirements (OPR). [N] The expectations and

- requirements of the building appropriate to its phase shall be documented before the design phase of the project begins. This documentation shall include the following: Environmental and sustainability goals.
 - Building sustainable goals.

performance tests or to adjust and balance systems.

must be performed in compliance with the California Energy Code.

- 3. Indoor environmental quality requirements.
- 4. Project program, including facility functions and hours of operation, and need for after hours
- 5. Equipment and systems expectations. 6. Building occupant and operation and maintenance (O&M) personnel expectations.

5.410.2.2 Basis of Design (BOD). [N] A written explanation of how the design of the building systems meets the OPR shall be completed at the design phase of the building project. The Basis of Design document shall cover the following systems:

Renewable energy systems. . Landscape irrigation systems.

Water reuse system.

5.410.2.3 Commissioning plan. [N] Prior to permit issuance a commissioning plan shall be completed to document how the project will be commissioned. The commissioning plan shall include the following: . General project information.

- Commissioning goals.
- 3. Systems to be commissioned. Plans to test systems and components shall include:
 - a. An explanation of the original design intent.
- b. Equipment and systems to be tested, including the extent of tests. c. Functions to be tested.
- d. Conditions under which the test shall be performed. e. Measurable criteria for acceptable performance.
- 4. Commissioning team information 5. Commissioning process activities, schedules and responsibilities. Plans for the completion of commissioning shall be included.

5.410.2.4 Functional performance testing. [N] Functional performance tests shall demonstrate the correct installation and operation of each component, system and system-to-system interface in accordance with the approved plans and specifications. Functional performance testing reports shall contain information addressing each of the building components tested, the testing methods utilized, and include any readings and adjustments

5.410.2.5 Documentation and training. [N] A Systems Manual and Systems Operations Training are required, including Occupational Safety and Health Act (OSHA) requirements in California Code of Regulations (CCR),

Title 8, Section 5142, and other related regulations. 5.410.2.5.1 Systems manual. [N] Documentation of the operational aspects of the building shall be

- completed within the systems manual and delivered to the building owner or representative. The systems manual shall include the following:
- 1. Site information, including facility description, history and current requirements.
- Site contact information 3. Basic operations and maintenance, including general site operating procedures, basic
- troubleshooting, recommended maintenance requirements, site events log. 4. Major systems.
- 5. Site equipment inventory and maintenance notes.
- 6. A copy of verifications required by the enforcing agency or this code. 7. Other resources and documentation, if applicable.
- **5.410.2.5.2 Systems operations training. [N]** A program for training of the appropriate maintenance staff for each equipment type and/or system shall be developed and documented in the commissioning
- report and shall include the following 1. System/equipment overview (what it is, what it does and with what other systems and/or
 - equipment it interfaces). 2. Review and demonstration of servicing/preventive maintenance. 3. Review of the information in the Systems Manual.
- 4. Review of the record drawings on the system/equipment.
- 5.410.2.6 Commissioning report. [N] A report of commissioning process activities undertaken through the

design and construction phases of the building project shall be completed and provided to the owner or 5.410.4 TESTING AND ADJUSTING. New buildings less than 10,000 square feet. Testing and adjusting of

systems shall be required for new buildings less than 10,000 square feet or new systems to serve an addition or alteration subject to Section 303.1.

5.410.4.2 (Reserved)

Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting system and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements and Sections 120.5, 120.6, 130.4, and 140.9(b)3 for additional testing requirements of specific

5.410.4.2 Systems. Develop a written plan of procedures for testing and adjusting systems. Systems to be included for testing and adjusting shall include at a minimum, as applicable to the project:

- 1. Renewable energy systems.
- 2. Landscape irrigation systems. Water reuse systems.

DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.

5.410.4.3 Procedures. Perform testing and adjusting procedures in accordance with manufacturer's specifications and applicable standards on each system.

5.410.4.3.1 HVAC balancing. In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for normal use, the system shall be balanced in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National Standards; the National Environmental Balancing Bureau Procedural Standards; Associated Air Balance Council National Standards or as approved by the enforcing agency.

5.410.4.4 Reporting. After completion of testing, adjusting and balancing, provide a final report of testing signed by the individual responsible for performing these services.

5.410.4.5 Operation and maintenance (O & M) manual. Provide the building owner or representative with detailed operating and maintenance instructions and copies of guaranties/warranties for each system. O & M instructions shall be consistent with OSHA requirements in CCR, Title 8, Section 5142, and other related

5.410.4.5.1 Inspections and reports. Include a copy of all inspection verifications and reports required by the enforcing agency.

DIVISION 5.5 ENVIRONMENTAL QUALITY

5.501.1 SCOPE. The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors.

SECTION 5.502 DEFINITIONS **5.502.1 DEFINITIONS.** The following terms are defined in Chapter 2 (and are included here for reference)

ARTERIAL HIGHWAY. A general term denoting a highway primarily for through traffic usually on a continuous route.

A-WEIGHTED SOUND LEVEL (dBA). The sound pressure level in decibels as measured on a sound level meter using the internationally standardized A-weighting filter or as computed from sound spectral data to which A-weighting adjustments have been made.

1 BTU/HOUR. British thermal units per hour, also referred to as Btu. The amount of heat required to raise one pound of water one degree Fahrenheit per hour, a common measure of heat transfer rate. A ton of refrigeration is 12,000 Btu, the amount of heat required to melt a ton (2,000 pounds) of ice at 32⁰ Fahrenheit.

COMMUNITY NOISE EQUIVALENT LEVEL (CNEL). A metric similar to the day-night average sound level (Ldn), except that a 5 decibel adjustment is added to the equivalent continuous sound exposure level for evening hours (7pm to 10pm) in addition to the 10 dB nighttime adjustment used in the Ldn.

COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium density fiberboard, "Composite wood products" does not include hardboard, structural plywood, structural panels. structural composite lumber, oriented strand board, glued laminated timber, timber, prefabricated wood I-joists or finger-jointed lumber, all as specified in California Code of Regulations (CCR), Title 17, Section 93120.1(a).

Note: See CCR, Title 17, Section 93120.1.

SECTION 5.501 GENERAL

DAY-NIGHT AVERAGE SOUND LEVEL (Ldn). The A-weighted equivalent continuous sound exposure level for a 24-hour period with a 10 dB adjustment added to sound levels occurring during nighttime hours (10p.m. to 7 a.m.).

DECIBEL (db). A measure on a logarithmic scale of the magnitude of a particular quantity (such as sound pressure, sound power, sound intensity) with respect to a reference quantity.

ELECTRIC VEHICLE (EV). An automotive-type vehicle for on-road use, such as passenger automobiles, buses, trucks, vans, neighborhood electric vehicles, electric motorcycles, and the like, primarily powered by an electric motor that draws current from a rechargeable storage battery, fuel cell, photovoltaic array, or other source of electric current. Plug-in hybrid electric vehicles (PHEV) are considered electric vehicles. For purposes of the California Electrical Code, off-road, self-propoelled electric vehicles, such as industrial trucks, hoists, lifts, transports, golf carts, airline ground support equipment, tractors, boats, and the like, are not included.

ELECTRIC VEHICLE CHARGING STATION(S) (EVCSj). One or more spaces intended for charging electric vehicles.

ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE). The conductors, including the ungrounded, grounded, and equipment grounding conductors and the electric vehicle connectors, attachment plugs, and all other fittings, devices, power outlets, or apparatus installed specifically for the purpose of transferring energy between the premises wiring

ENERGY EQUIVALENT (NOISE) LEVEL (Leq). The level of a steady noise which would have the same energy as the fluctuating noise level integrated over the time of period of interest.

EXPRESSWAY. An arterial highway for through traffic which may have partial control of access, but which may or may not be divided or have grade separations at intersections.

FREEWAY. A divided arterial highway with full control of access and with grade separations at intersections.

GLOBAL WARMING POTENTIAL (GWP). The radiative forcing impact of one mass-based unit of a given greenhouse gas relative to an equivalent unit of carbon dioxide over a given period of time. Carbon dioxide is the reference compound with a GWP of one.

GLOBAL WARMING POTENTIAL VALUE (GWP VALUE). A 100-year GWP value published by the Intergovernmental Panel on Climate Change (IPCC) in either its Second Assessment Report (SAR) (IPCC, 1995); or its Fourth Assessment A-3 Report (AR4) (IPCC, 2007). The SAR GWP values are found in column "SAR (100-yr)" of Table 2.14.; the AR4 GWP values are found in column "100 yr" of Table 2.14.

HIGH-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that is: (a) a chlorofluorocarbon, a hdrochlorofluorocarbon, a hydrofluorocarbon, a perfluorocarbon, or any compound or blend of compounds, with a

GWP value equal to or greater than 150, or (B) any ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009).

LONG RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.5 times the pipe diameter.

LOW-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that: (A) has a GWP value less than 150, and (B) is not an ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009).

MERV. Filter minimum efficiency reporting value, based on ASHRAE 52.2–1999.

MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a compound to the "Base REactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundreths of a gram (g O³/g ROC).

PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for all ingredients in a product subject to this article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of product (excluding container and packaging).

PSIG. Pounds per square inch, guage.

REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to

SCHRADER ACCESS VALVES. Access fittings with a valve core installed.

SHORT RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.0 times the pipe diameter.

SUPERMARKET. For the purposes of Section 5.508.2, a supermarket is any retail food facility with 8,000 square feet or more conditioned area, and that utilizes either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units.

VOC. A volatile organic compound broadly defined as a chemical compound based on carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a)

Note: Where specific regulations are cited from different agencies such as SCAQMD, ARB, etc., the VOC definition included in that specific regulation is the one that prevails for the specific measure in question.

5.503.1 FIREPLACES. Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a sealed

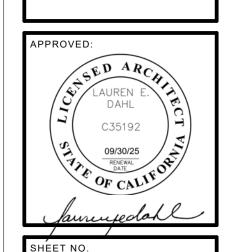
woodstove or pellet stove, and refer to residential requirements in the California Energy Code, Title 24, Part 6, Subchapter 7, Section 150. Woodstoves, pellet stoves and fireplaces shall comply with applicable local ordinances.

5.503.1.1 Woodstoves. Woodstoves and pellet stoves shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified

SECTION 5.504 POLLUTANT CONTROL

5.504.1 TEMPORARY VENTILATION. The permanent HVAC system shall only be used during construction if necessary to condition the building or areas of addition or alteration within the required temperature range for material and equipment installation. If the HVAC system is used during construction, use return air filters with a Minimum Efficiency Reporting Value (MERV) of 8, based on ASHRAE 52.2-1999, or an average efficiency of 30% based on ASHRAE 52.1-1992 Replace all filters immediately prior to occupancy, or, if the building is occupied during alteration, at the conclusion of construction.

5.504.3 Covering of duct openings and protection of mechanical equipment during construction. At the time of rough installation and during storage on the construction site until final startup of the heating, cooling and ventilation equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheetmetal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which



NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2020, Includes August 2019 Supplement)

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JUNE 13, 2024

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201025 COUNTY SUBMITAL

21216 BID ADDENDUM 1

30125 RE-BID DRAWINGS

31228 UPDATED SITE

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REVISIONS:

5.504.4 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with Sections 5.504.4.1 through

5.504.4.1 Adhesives, sealants and caulks. Adhesives, sealants, and caulks used on the project shall meet the requirements of the following standards:

1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for aerosol products as specified in subsection 2, below.

2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of California Code of Regulations, Title 17, commencing with Section 94507.

TABLE 5.504.4.1 - ADHESIVE VOC LIN	/IIT _{1,2}
Less Water and Less Exempt Compounds in Grams	per Liter
ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT
INDOOR CARPET ADHESIVES	50
CARPET PAD ADHESIVES	50
OUTDOOR CARPET ADHESIVES	150
WOOD FLOORING ADHESIVES	100
RUBBER FLOOR ADHESIVES	60
SUBFLOOR ADHESIVES	50
CERAMIC TILE ADHESIVES	65
VCT & ASPHALT TILE ADHESIVES	50
DRYWALL & PANEL ADHESIVES	50
COVE BASE ADHESIVES	50
MULTIPURPOSE CONSTRUCTION ADHESIVES	70
STRUCTURAL GLAZING ADHESIVES	100
SINGLE-PLY ROOF MEMBRANE ADHESIVES	250
OTHER ADHESIVES NOT SPECIFICALLY LISTED	50
SPECIALTY APPLICATIONS	
PVC WELDING	510
CPVC WELDING	490
ABS WELDING	325
PLASTIC CEMENT WELDING	250
ADHESIVE PRIMER FOR PLASTIC	550
CONTACT ADHESIVE	80
SPECIAL PURPOSE CONTACT ADHESIVE	250
STRUCTURAL WOOD MEMBER ADHESIVE	140
TOP & TRIM ADHESIVE	250
SUBSTRATE SPECIFIC APPLICATIONS	
METAL TO METAL	30
PLASTIC FOAMS	50
POROUS MATERIAL (EXCEPT WOOD)	50
WOOD	30
FIBERGLASS	80

1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.

2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168,

TABLE 5.504.4.2 - SEALANT VOC LIMIT

www.arb.ca.gov/DRDB/SC/CURHTML/R1168.PDF

Less Water and Less Exempt Compounds in Gra	ams per Liter
SEALANTS	CURRENT VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	
ARCHITECTURAL	
NONPOROUS	250
POROUS	775
MODIFIED BITUMINOUS	500
MARINE DECK	760
OTHER	750

NOTE: FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THESE TABLES, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.

5.504.4.3 Paints and coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5.504.4.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 5.504.4.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss coating, based on its gloss, as defined in Subsections 4.21, 4.36 and 4.37 of the 2007 California Air Resources Board Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 5.504.4.3 shall apply.

5.504.4.3.1 Aerosol Paints and coatings. Aerosol paints and coatings shall meet the PWMIR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(c)(2) and (d)(2) of California Code of Regulations, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8 Rule 49.

TABLE 5.504.4.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS_{2,3} GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT COMPOUNDS

FLAT COATINGS	50
NONFLAT COATINGS	100
NONFLAT HIGH GLOSS COATINGS	150
SPECIALTY COATINGS	150
	400
ALUMINUM ROOF COATINGS	400
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	50
BITUMINOUS ROOF PRIMERS	350
BOND BREAKERS	350
CONCRETE CURING COMPOUNDS	350
CONCRETE/MASONRY SEALERS	100
DRIVEWAY SEALERS	50
DRY FOG COATINGS	150
FAUX FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH-TEMPERATURE COATINGS	420
INDUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS COATINGS ₁	120
MAGNESITE CEMENT COATINGS	450
MASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
MULTICOLOR COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS, & UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLACS:	
CLEAR	730
OPAQUE	550
SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	100
STAINS	250
STONE CONSOLIDANTS	450
SWIMMING POOL COATINGS	340
TRAFFIC MARKING COATINGS	100
TUB & TILE REFINISH COATINGS	420
WATERPROOFING MEMBRANES	250
WOOD COATINGS	275
WOOD PRESERVATIVES	350
ZINC-RICH PRIMERS	340

2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN

3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE

5.504.4.3.2 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following:

. Manufacturer's product specification 2. Field verification of on-site product containers

5.504.4.4 Carpet Systems. All carpet installed in the building interior shall meet at least one of the testing and product requirements:

1. Carpet and Rug Institute's Green Label Plus Program.

2. Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version 1.1, February 2010 (also known as CDPH Standard Method V1.1 or Specification 01350).

NSF/ANSI 140 at the Gold level or higher;

Scientific Certifications Systems Sustainable Choice; or 5. Compliant with the Collaborative for High Performance Schools California (2014 CA-CHPS) Criteria listed in the CHPS High Performance Product Database.

5.504.4.4.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the

requirements of the Carpet and Rug Institute Green Label program. 5.504.4.4.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 5.504.4.1

5.504.4.5 Composite wood products. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the buildings shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure (ATCM) for Composite Wood (17 CCR 93120 et seq.). Those materials not exempted under the ATCM must meet the specified emission limits, as shown in

> **5.504.4.5.3 Documentation.** Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:

1. Product certifications and specifications. Chain of custody certifications.

3. Product labeled and invoiced as meeting the Composite Wood Products regulation (see

CCR, Title 17, Section 93120, et seq.). 4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the

Engineered Wood Association, the Australian AS/NZS 2269 or European 636 3S 5. Other methods acceptable to the enforcing agency.

DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.

TABLE 5.504.4.5 - FORMALDEHYDE LIMITS MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION **CURRENT LIMIT** HARDWOOD PLYWOOD VENEER CORE 0.05 HARDWOOD PLYWOOD COMPOSITE CORE 0.05 PARTICLE BOARD 0.09 MEDIUM DENSITY FIBERBOARD 0.11 THIN MEDIUM DENSITY FIBERBOARD2

1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD. AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333. FOR ADDITIONAL INFORMATION. SEE CALIFORNIA CODE OF REGULATIONS. TITLE 17. SECTIONS 93120 THROUGH

2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16 INCHES (8 MM).

5.504.4.6 Resilient flooring systems. For 80 percent of floor area receiving resilient flooring, installed resilient flooring shall meet at least one of the following:

1. Certified under the Resilient Floor Covering Institute (RFCI) FloorScore program; 2. Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health's 2010 Standard Method for the Testing and Evaluation Chambers,

Version 1.1, February 2010; 3. Compliant with the Collaborative for High Performance Schools California (2014 CA-CHPS) Criteria

and listed in the CHPS High Performance Product Database; or 4. Products certified under UL GREENGUARD Gold (formerly the Greenguard Children's & Schools

5.504.4.6.1 Verification of compliance. Documentation shall be provided verifying that resilient flooring materials meet the pollutant emission limits.

5.504.5.3 Filters. In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air that provides at least a Minimum Efficiency Reporting Value (MERV) of 13. MERV 13 filters shall be installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.

Exceptions: Existing mechanical equipment.

5.504.5.3.1 Labeling. Installed filters shall be clearly labeled by the manufacturer indicating the MERV

5.504.7 ENVIRONMENTAL TOBACCO SMOKE (ETS) CONTROL. Where outdoor areas are provided for smoking, prohibit smoking within 25 feet of building entries, outdoor air intakes and operable windows and within the building as already prohibited by other laws or regulations; or as enforced by ordinances, regulations or policies of any city, county, city and county, California Community College, campus of the California State University, or campus of the University of California, whichever are more stringent. When ordinances, regulations or policies are not in place, post signage to inform building occupants of the prohibitions.

SECTION 5.505 INDOOR MOISTURE CONTROL

5.505.1 INDOOR MOISTURE CONTROL. Buildings shall meet or exceed the provisions of California Building Code, CCR, Title 24, Part 2, Sections 1202 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures, see

SECTION 5.506 INDOOR AIR QUALITY

Section 5.407.2 of this code.

5.506.1 OUTSIDE AIR DELIVERY. For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 120.1 (Requirements For Ventilation) of the California Energy Code, or the applicable local code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8.

5.506.2 CARBON DIOXIDE (CO2) MONITORING. For buildings or additions equipped with demand control ventilation, CO₂ sensors and ventilation controls shall be specified and installed in accordance with the requirements of the California Energy Code, Section 120(c)(4)

SECTION 5.507 ENVIRONMENTAL COMFORT 5.507.4 ACOUSTICAL CONTROL. Employ building assemblies and components with Sound Transmission Class (STC) values determined in accordance with ASTM E 90 and ASTM E 413, or Outdoor-Indoor Sound Transmission Class (OITC) determined in accordance with ASTM E 1332, using either the prescriptive or performance method in

Exception: Buildings with few or no occupants or where occupants are not likely to be affected by exterior noise, as determined by the enforcement authority, such as factories, stadiums, storage, enclosed parking structures and utility buildings.

Exception: [DSA-SS] For public schools and community colleges, the requirements of this section and all

5.507.4.1 Exterior noise transmission, prescriptive method. Wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall meet a composite STC rating of at least 50 or a composite OITC rating of no less than 40, with exterior windows of a minimum STC of 40 or OITC of 30 in the following locations:

1. Within the 65 CNEL noise contour of an airport.

1. Ldn or CNEL for military airports shall be determined by the facility Air Installation Compatible

2. Ldn or CNEL for other airports and heliports for which a land use plan has not been developed shall be determined by the local general plan noise element.

2. Within the 65 CNEL or Ldn noise contour of a freeway or expressway, railroad, industrial source or fixed-guideway source as determined by the Noise Element of the General Plan.

5.507.4.1.1. Noise exposure where noise contours are not readily available. Buildings exposed to a noise level of 65 dB L_{eg} - 1-hr during any hour of operation shall have building, addition or alteration exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC rating of at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30).

5.507.4.2 Performance Method. For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (Leq-1Hr) of 50 dBA in occupied areas during any hour of operation.

5.507.4.2.1 Site Features. Exterior features such as sound walls or earth berms may be utilized as appropriate to the building, addition or alteration project to mitigate sound migration to the interior.

5.507.4.2.2 Documentation of Compliance. An acoustical analysis documenting complying interior sound levels shall be prepared by personnel approved by the architect or engineer of record.

5.507.4.3 Interior sound transmission. Wall and floor-ceiling assemblies separating tenant spaces and tenant spaces and public places shall have an STC of at least 40.

Note: Examples of assemblies and their various STC ratings may be found at the California Office of Noise Control: www.toolbase.org/PDF/CaseStudies/stc_icc_ratings.pdf.

SECTION 5.508 OUTDOOR AIR QUALITY

5.508.1 Ozone depletion and greenhouse gas reductions. Installations of HVAC, refrigeration and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2.

5.508.1.1 Chlorofluorocarbons (CFCs). Install HVAC, refrigeration and fire suppression equipment that do not

5.508.1.2 Halons. Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.

5.508.2 Supermarket refrigerant leak reduction. New commercial refrigeration systems shall comply with the provisions of this section when installed in retail food stores 8,000 square feet or more conditioned area, and that utilize either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units. The leak reduction measures apply to refrigeration systems containing high-global-warming potential (high-GWP) refrigerants with a GWP of 150 or greater. New refrigeration systems include both new facilities and the replacement of existing refrigeration systems in existing facilities.

Exception: Refrigeration systems containing low-global warming potential (low-GWP) refrigerant with a GWP value less than 150 are not subject to this section. Low-GWP refrigerants are nonozone-depleting refrigerants that include ammonia, carbon dioxide (CO₂), and potentially other refrigerants.

5.508.2.1 Refrigerant piping. Piping compliant with the California Mechanical Code shall be installed to be accessible for leak protection and repairs. Piping runs using threaded pipe, copper tubing with an outside diameter (OD) less than 1/4 inch, flared tubing connections and short radius elbows shall not be used in refrigerant systems except as noted below.

5.508.2.1.1 Threaded pipe. Threaded connections are permitted at the compressor rack.

5.508.2.1.2 Copper pipe. Copper tubing with an OD less than 1/4 inch may be used in systems with a refrigerant charge of 5 pounds or less.

5.508.2.1.2.1 Anchorage. One-fouth-inch OD tubing shall be securely clamped to a rigid base to keep vibration levels below 8 mils.

5.508.2.1.3 Flared tubing connections. Double-flared tubing connections may be used for pressure

Exception: Single-flared tubing connections may be used with a multiring seal coated with industrial sealant suitable for use with refrigerants and tightened in accordance with manufacturer's

5.508.2.1.4 Elbows. Short radius elbows are only permitted where space limitations prohibit use of

5.508.2.2 Valves. Valves Valves and fittings shall comply with the *California Mechanical Code* and as

5.508.2.2.1 Pressure relief valves. For vessels containing high-GWP refrigerant, a rupture disc shall be installed between the outlet of the vessel and the inlet of the pressure relief valve.

5.508.2.2.1.1 Pressure detection. A pressure gauge, pressure transducer or other device shall be installed in the space between the rupture disc and the relief valve inlet to indicate a disc rupture or discharge of the relief valve.

5.508.2.2.2 Access valves. Only Schrader access valves with a brass or steel body are

5.508.2.2.2.1 Valve caps. For systems with a refrigerant charge of 5 pounds or more, valve caps

5.508.2.2.2.2 Seal caps. If designed for it, the cap shall have a neoprene O-ring in place. **5.508.2.2.2.2.1 Chain tethers.** Chain tethers to fit ovr the stem are required for valves

Exception: Valves with seal caps that are not removed from the valve during stem

5.508.2.3 Refrigerated service cases. Refrigerated service cases holding food products containing vinegar and salt shall have evaporator coils of corrosion-resistant material, such as stainless steel; or be coated to prevent corrosion from these substances

designed to have seal caps.

5.508.2.3.1 Coil coating. Consideration shall be given to the heat transfer efficiency of coil coating to maximize energy efficiency.

5.508.2.4 Refrigerant receivers. Refrigerant receivers with capacities greater than 200 pounds shall be fitted with a device tha indicates the level of refrigerant in the receiver.

5.508.2.5 Pressure testing. The system shall be pressure tested during installation prior to evacuation and

5.508.2.5.1 Minimum pressure. The system shall be charged with regulated dry nitrogen and appropriate tracer gas to bring system pressure up to 300 psig minimum.

5.508.2.5.2 Leaks. Check the system for leaks, repair any leaks, and retest for pressure using the same

5.508.2.5.3 Allowable pressure change. The system shall stand, unaltered, for 24 hours with no more

than a +/- one pound pressure change from 300 psig, measured with the same gauge. **5.508.2.6 Evacuation.** The system shall be evacuated after pressure testing and prior to charging.

5.508.2.6.1 First vacuum. Pull a system vacuum down to at least 1000 microns (+/- 50 microns), and

5.508.2.6.2 Second vacuum. Pull a second system vacuum to a minimum of 500 microns and hold for 30

5.508.2.6.3 Third vacuum. Pull a third vacuum down to a minimum of 300 microns, and hold for 24 hours with a maximum drift of 100 microns over a 24-hour period.

INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS

702 QUALIFICATIONS

702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following:

1. State certified apprenticeship programs. 2. Public utility training programs.

3. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations. 4. Programs sponsored by manufacturing organizations.

5. Other programs acceptable to the enforcing agency.

702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector:

1. Certification by a national or regional green building program or standard publisher. 2. Certification by a statewide energy consulting or verification organization, such as HERS raters, building

performance contractors, and home energy auditors.

3. Successful completion of a third party apprentice training program in the appropriate trade. 4. Other programs acceptable to the enforcing agency.

1. Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code. P. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS).

[BSC-CG] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency.

Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.

703 VERIFICATIONS

703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified applicable checklist

PROVED:

206 ACCESSIBLE ROUTES
206.2.1-.4 AT LEAST ONE ACCESSIBLE ROUTE SHALL BE PROVIDED WITHIN THE SITE FROM ACCESSIBLE PARKING SPACES AND ACCESSIBLE PASSENGER LOADING ZONES; PUBLIC STREETS AND SIDEWALKS, PUBLIC TRANSPORTATION STOPS, ACCESSIBLE BUILDINGS AND FACILITIES AND SPACES TO THE ACCESSIBLE BUILDING OR ENTRANCE THEY SERVE. ONE ACCESSIBLE ROUTE SHALL CONNECT THE ACCESSIBLE SPACES AND ELEMENTS WITHIN THE

208.3.2 REQUIRED ACCESSIBLE PARKING SPACES SHALL BE LOCATED ON THE SHORTEST ACCESSIBLE ROUTE TO THE RESIDENTIAL DWELLING UNIT ENTRANCE THEY SERVE.

228.2 WHERE MAIL BOXES ARE PROVIDED FOR EACH RESIDENTIAL DWELLING UNIT, MAIL BOXES COMPLYING WITH 309 SHALL BE PROVIDED FOR EACH ACCESSIBLE DWELLING UNIT.

GENERAL. FLOOR AND GROUND SURFACES SHALL BE STABLE, FIRM, AND SLIP RESISTANT AND SHALL COMPLY WITH

302.2 CARPET. CARPET OR CARPET TILE SHALL BE SECURELY ATTACHED AND SHALL HAVE A FIRM CUSHION, PAD, OR BACKING OR NO CUSHION OR PAD. CARPET OR CARPET TILE SHALL HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL CUT PILE, OR LEVEL CUT/UNCUT PILE TEXTURE. PILE HEIGHT SHALL BE ½ " MAX. EXPOSED EDGES OF CARPET SHALL BE FASTENED TO FLOOR SURFACES AND SHALL HAVE TRIM ON THE ENTIRE LENGTH OF THE EXPOSED EDGE. CARPET EDGE TRIM SHALL COMPLY WITH 303.

302.3 OPENINGS. OPENINGS IN FLOOR OR GROUND SURFACES SHALL NOT ALLOW PASSAGE OF A SPHERE MORE THAN ½" DIAMETER EXCEPT AS ALLOWED IN 407.4.3. 409.4.3. 410.4. 810.5.3 AND 810.10. ELONGATED OPENINGS SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR. TO THE DOMINANT DIRECTION OF TRAVEL.

$303.2~{\sf VERTICAL}$. CHANGES IN LEVEL OF $1\!\!\!/\!\!\!/$ HIGH MAX SHALL BE PERMITTED TO BE VERTICAL.

303.3 BEVELED. CHANGES IN LEVEL BETWEEN 1/4" HIGH MIN AND 1/2" HIGH MAX SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2.

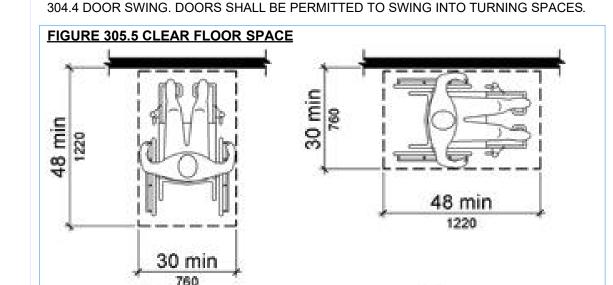
303.4 RAMPS. CHANGES IN LEVEL GREATER THAN ½ " HIGH SHALL BE RAMPED, AND SHALL COMPLY WITH 405 OR 406.

303.5 WARNING CURBS. ABRUPT CHANGES IN LEVEL EXCEEDING 4" IN A VERTICAL DIMENSION BETWEEN WALKS, SIDEWALKS OR OTHER PEDESTRICAN WAYS AND ADJACENT SURFACES OR FEATURES SHLL BE IDENTIFIED BY WARNING CURBS AT LEAST 6" IN HEIGHT ABOVE THE WALK OR SIDEWALK **EXCEPTIONS**

1. A WARNING CURB IS NOT REQUIRED BETWEEN A WALK OR SIDEWALK AND AN ADJACENT STREET OR DRIVEWAY. 2. A WARNING CURB IS NOT REQUIRED WHEN A GUARD OR HANDRAIL IS PROVIDED WITH A GUIDE RAIL CENTERED 2" MIN AND 4" MAX ABOVE THE SURFACE OF THE WALK OR SIDEWALK.

304 TURNING SPACE 304.3.1 CIRCULAR SPACE. THE TURNING SPACE SHALL BE A SPACE OF 60" DIAMETER MIN THE SPACE SHALL BE PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE COMPLYING WITH 306.

304.3.2 T-SHAPED SPACE. THE TURNING SPACE SHALL BE A T-SHAPED SPACE WITHIN A 60" SQUARE MIN WITH ARMS AND BASE 36" WIDE MIN EACH ARM OF THE T SHALL BE CLEAR OF OBSTRUCTIONS 12" MIN IN EACH DIRECTION AND THE BASE SHALL BE CLEAR OF OBSTRUCTIONS 24" MIN. THE SPACE SHALL BE PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE COMPLYING WITH 306 ONLY AT THE END OF EITHER THE BASE OR ONE ARM.



305 CLEAR FLOOR OR GROUND SPACE

305.5 POSITION. UNLESS OTHERWISE SPECIFIED. CLEAR FLOOR OR GROUND SPACE SHALL BE POSITIONED FOR EITHER FORWARD OR PARALLEL APPROACH TO AN ELEMENT.

305.6 APPROACH. ONE FULL UNOBSTRUCTED SIDE OF THE CLEAR FLOOR OR GROUND SPACE SHALL ADJOIN AN ACCESSIBLE ROUTE OR ADJOIN ANOTHER CLEAR FLOOR OR GROUND SPACE.

305.7 MANEUVERING CLEARANCE.

305.7.1 FORWARD APPROACH. ALCOVES SHALL BE 36" WIDE MIN WHERE THE DEPTH EXCEEDS 24".

305.7.2 PARALLEL APPROACH. ALCOVES SHALL BE 60" WIDE MIN WHERE THE DEPTH EXCEEDS 15".

306 KNEE AND TOE CLEARANCE

306.1 GENERAL. WHERE SPACE BENEATH AN ELEMENT IS INCLUDED AS PART OF CLEAR FLOOR OR GROUND SPACE OR TURNING SPACE, THE SPACE SHALL COMPLY WITH 306. ADDITIONAL SPACE SHALL NOT BE PROHIBITED BENEATH AN ELEMENT BUT SHALL NOT BE CONSIDERED AS PART OF THE CLEAR FLOOR OR GROUND SPACE OR TURNING SPACE.

306.2 TOE CLEARANCE.

306.2.1 GENERAL. SPACE UNDER AN ELEMENT BETWEEN THE FINISH FLOOR OR GROUND AND 9' ABOVE THE FINISH FLOOR OR GROUND SHALL BE CONSIDERED TOE CLEARANCE AND SHALL COMPLY WITH 306.2.

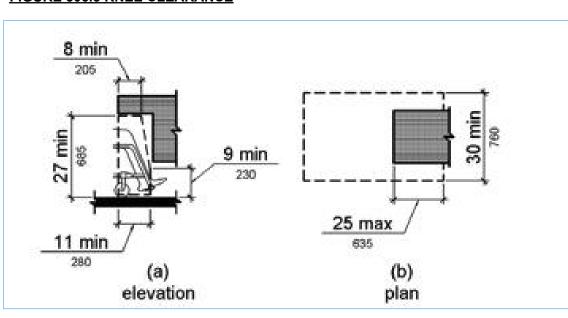
306.2.2 MAX DEPTH. TOE CLEARANCE SHALL EXTEND 25" MAX UNDER AN

306.2.3 MIN REQUIRED DEPTH. WHERE TOE CLEARANCE IS REQUIRED AT AN ELEMENT AS PART OF A CLEAR FLOOR SPACE, THE TOE CLEARANCE SHALL EXTEND 17" MIN UNDER THE ELEMENT.

306.2.4 ADDITIONAL CLEARANCE. SPACE EXTENDING GREATER THAN 6" BEYOND THE AVAILABLE KNEE CLEARANCE AT 9" ABOVE THE FINISH FLOOR OR GROUND SHALL NOT BE CONSIDERED TOE CLEARANCE.

306.2.5 WIDTH. TOE CLEARANCE SHALL BE 30" WIDE MIN

FIGURE 306.3 KNEE CLEARANCE



306.3 KNEE CLEARANCE.

306.3.1 GENERAL. SPACE UNDER AN ELEMENT BETWEEN 9" AND 27" ABOVE THE FINISH FLOOR OR GROUND SHALL BE CONSIDERED KNEE CLEARANCE AND SHALL COMPLY WITH 306.3.

306.3.2 MAX DEPTH. KNEE CLEARANCE SHALL EXTEND 25" MAX UNDER AN ELEMENT AT 9" ABOVE THE FINISH FLOOR OR GROUND.

306.3.3 MIN REQUIRED DEPTH. WHERE KNEE CLEARANCE IS REQUIRED UNDER AN ELEMENT AS PART OF A CLEAR FLOOR SPACE, THE KNEE CLEARANCE SHALL BE 11" DEEP MIN AT 9" ABOVE THE FINISH FLOOR OR GROUND, AND 8" DEEP MIN AT 27" ABOVE THE FINISH FLOOR OR GROUND. 306.3.4 CLEARANCE REDUCTION. BETWEEN 9" AND 27" ABOVE THE FINISH FLOOR OR GROUND, THE KNEE CLEARANCE SHALL BE PERMITTED TO REDUCE AT A RATE OF 1" IN DEPTH FOR EACH 6" IN HEIGHT.

306.3.5 WIDTH. KNEE CLEARANCE SHALL BE 30" WIDE

307 PROTRUDING OBJECTS
307.2 PROTRUSION LIMITS. OBJECTS WITH LEADING EDGES MORE THAN 27" AND NOT MORE THAN

80"ABOVE THE FINISH FLOOR OR GROUND SHALL PROTRUDE 4 " MAX HORIZONTALLY INTO THE CIRCULATION PATH.

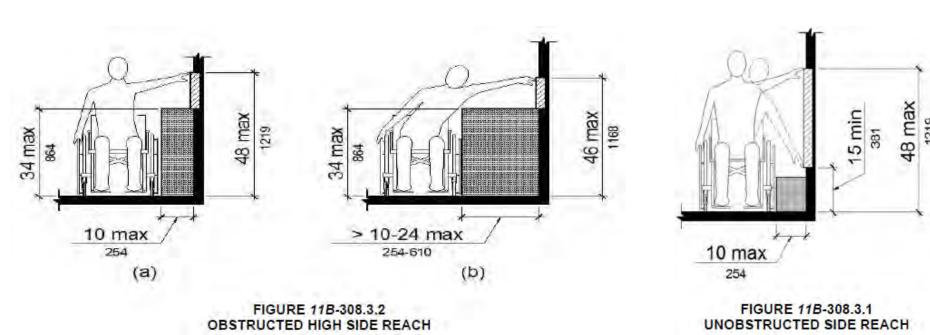
307.3 POST-MOUNTED OBJECTS. FREE-STANDING OBJECTS MOUNTED ON POSTS OR PYLONS SHALL OVERHANG CIRCULATION PATHS 12" MAX WHEN LOCATED 27" MIN AND 80" MAX ABOVE THE FINISH FLOOR OR GROUND. WHERE A SIGN OR OTHER OBSTRUCTION IS MOUNTED BETWEEN POSTS OR PYLONS AND THE CLEAR DISTANCE BETWEEN THE POSTS OR PYLONS IS GREATER THAN 12" THE LOWEST EDGE OF SUCH SIGN OR OBSTRUCTION SHALL BE 27" MAX OR 80" MIN ABOVE THE FINISH FLOOR OR GROUND.

307.4 VERTICAL CLEARANCE. VERTICAL CLEARANCE SHALL BE 80" HIGH MIN. GUARDRAILS OR OTHER BARRIERS SHALL BE PROVIDED WHERE THE VERTICAL CLEARANCE IS LESS THAN 80" HIGH. THE LEADING EDGE OF SUCH GUARDRAIL OR BARRIER SHALL BE LOCATED 27" MAX ABOVE THE FINISH FLOOR OR GROUND.

307.5 REQUIRED CLEAR WIDTH. PROTRUDING OBJECTS SHALL NOT REDUCE THE CLEAR WIDTH REQUIRED FOR ACCESSIBLE

308 REACH RANGES 308.2 FORWARD REACH.

308.2.1 UNOBSTRUCTED. WHERE A FORWARD REACH IS UNOBSTRUCTED, THE HIGH FORWARD REACH SHALL BE 48 "MAX AND THE LOW FORWARD REACH SHALL BE 15" MIN ABOVE THE FINISH FLOOR OR GROUND.



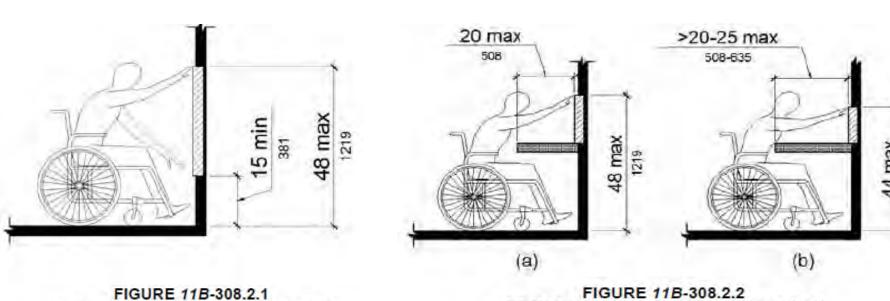


FIGURE 11B-308.2.2 OBSTRUCTED HIGH FORWARD REACH

308.2.2 OBSTRUCTED HIGH REACH. WHERE A HIGH FORWARD REACH IS OVER AN OBSTRUCTION, THE CLEAR FLOOR SPACE SHALL EXTEND BENEATH THE ELEMENT FOR A DISTANCE NOT LESS THAN THE REQUIRED REACH DEPTH OVER THE OBSTRUCTION. THE HIGH FORWARD REACH SHALL BE 48" MAX WHERE THE REACH DEPTH IS 20" MAX. WHERE THE REACH DEPTH EXCEEDS 20" THE HIGH FORWARD REACH SHALL BE 44" MAX AND THE REACH DEPTH SHALL BE 25" MAX.

UNOBSTRUCTED FORWARD REACH

308.3.1 UNOBSTRUCTED. WHERE A CLEAR FLOOR OR GROUND SPACE ALLOWS A PARALLEL APPROACH TO AN ELEMENT AND THE SIDE REACH IS UNOBSTRUCTED, THE HIGH SIDE REACH SHALL BE 48" MAX AND THE LOW SIDE REACH SHALL BE 15" MIN ABOVE THE FINISH FLOOR OR GROUND.

EXCEPTIONS: 1. AN OBSTRUCTION SHALL BE PERMITTED BETWEEN THE CLEAR FLOOR OR GROUND SPACE AND THE ELEMENT WHERE THE DEPTH OF THE OBSTRUCTION IS 10 " (255 MM) MAX.

308.3.2 OBSTRUCTED HIGH REACH. WHERE A CLEAR FLOOR OR GROUND SPACE ALLOWS A PARALLEL APPROACH TO AN ELEMENT AND THE HIGH SIDE REACH IS OVER AN OBSTRUCTION, THE HEIGHT OF THE OBSTRUCTION SHALL BE 34 " MAX AND THE DEPTH OF THE OBSTRUCTION SHALL BE 24" MAX. THE HIGH SIDE REACH SHALL BE 48" MAX FOR A REACH DEPTH OF 10" MAX. WHERE THE REACH DEPTH EXCEEDS 10" THE HIGH SIDE REACH SHALL BE 46" MAX FOR A REACH DEPTH OF 24" MAX.

309.2 CLEAR FLOOR SPACE. A CLEAR FLOOR OR GROUND SPACE COMPLYING WITH 305 SHALL BE PROVIDED

309.3 HEIGHT. OPERABLE PARTS SHALL BE PLACED WITHIN ONE OR MORE OF THE REACH RANGES SPECIFIED IN 308.

309.4 OPERATION. OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS MAX.

402 ACCESSIBLE ROUTES
402.2 COMPONENTS. ACCESSIBLE ROUTES SHALL CONSIST OF ONE OR MORE OF THE FOLLOWING COMPONENTS: WALKING SURFACES WITH A RUNNING SLOPE NOT STEEPER THAN 1:20, DOORWAYS, RAMPS, CURB RAMPS EXCLUDING THE FLARED SIDES, ELEVATORS, AND PLATFORM LIFTS. ALL COMPONENTS OF AN ACCESSIBLE ROUTE SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF CHAPTER 4.

ADVISORY 402.2 COMPONENTS. WALKING SURFACES MUST HAVING RUNNING SLOPES NOT STEEPER THAN 1:20. SEE 403.3. OTHER COMPONENTS OF ACCESSIBLE ROUTES, SUCH AS RAMPS (405) AND CURB RAMPS (406), ARE PERMITTED TO BE MORE STEEPLY SLOPED.

403.3 SLOPE. THE RUNNING SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:20. THE CROSS SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:48.

403.5.1 CLEAR WIDTH. EXCEPT AS PROVIDED IN 403.5.2 AND 403.5.3, THE CLEAR WIDTH OF WALKING SURFACES SHALL BE 36" MIN EXCEPTION: THE CLEAR WIDTH SHALL BE PERMITTED TO BE REDUCED TO 32"MIN FOR A LENGTH OF 24" MAX PROVIDED THAT REDUCED WIDTH SEGMENTS ARE SEPARATED BY SEGMENTS THAT ARE 48" LONG MIN AND 36" WIDE MIN

403.5.2 CLEAR WIDTH AT TURN. WHERE THE ACCESSIBLE ROUTE MAKES A 180 DEGREE TURN AROUND AN ELEMENT WHICH IS LESS THAN 48" WIDE. CLEAR WIDTH SHALL BE 42" MIN APPROACHING THE TURN. 48" MIN AT THE TURN AND 42 " MIN LEAVING THE TURN. EXCEPTION: WHERE THE CLEAR WIDTH AT THE TURN IS 60" MIN COMPLIANCE WITH 403.5.2 SHALL NOT BE REQUIRED.

403.5.3 PASSING SPACES. AN ACCESSIBLE ROUTE WITH A CLEAR WIDTH LESS THAN 60" SHALL PROVIDE PASSING SPACES AT INTERVALS OF 200' MAXIMUM. PASSING SPACES SHALL BE EITHER: A SPACE 60" X 60" MINIMUM; OR, AN INTERSECTION OF TWO WALKING SURFACES PROVIDING A T-SHAPED SPACE COMPLYING WITH 304.3.2 WHERE THE BASE AND ARMS OF THE T-SHAPED SPACE EXTEND 48 INCHES (1220 MM) MINIMUM BEYOND THE INTERSECTION.

404 DOORS, DOORWAYS, AND GATES

404.2.2 DOUBLE-LEAF DOORS AND GATES. AT LEAST ONE OF THE ACTIVE LEAVES OF DOORWAYS WITH TWO LEAVES SHALL COMPLY WITH 404.2.3 AND 404.2.4.

404.2.3 CLEAR WIDTH. DOOR OPENINGS SHALL PROVIDE A CLEAR WIDTH OF 32" MIN CLEAR OPENINGS OF DOORWAYS WITH SWINGING DOORS SHALL BE MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP, WITH THE DOOR OPEN 90 DEGREES. OPENINGS MORE THAN 24" DEEP SHALL PROVIDE A CLEAR OPENING OF 36" MIN THERE SHALL BE NO PROJECTIONS INTO THE REQUIRED CLEAR OPENING WIDTH LOWER THAN 34" ABOVE THE FINISH FLOOR OR GROUND. PROJECTIONS INTO THE CLEAR OPENING WIDTH BETWEEN 34" AND 80" ABOVE THE FINISH FLOOR OR GROUND SHALL NOT EXCEED 4".

404.2.4 MANEUVERING CLEARANCES. MANEUVERING CLEARANCES SHALL EXTEND THE FULL WIDTH OF THE DOORWAY AND THE REQUIRED LATCH SIDE OR HINGE SIDE CLEARANCE.

TABLE 404.2.4.1 MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS AND GATES

TYPI	E OF USE	MIN.MANEUVERING CLEARANCE							
APPROACH DIRECTION	DOOR OR GATE SIDE	PERPENDICULAR TO DOORWAY	PARALLEL TO DOORWAY (BEYOND LATCH SIDE, U.N.O.)						
FROM FRONT	PULL	60"	18" ⁵						
FROM FRONT	PUSH	48"	0" ¹						
FROM HINGE SIDE	PULL	60"	36"						
FROM HINGE SIDE	PUSH	44" ²	22" ³						
FROM LATCH SIDE	PULL	60"	24"						
FROM LATCH SIDE	PUSH	44" ⁴	24"						

ADD 12" IF CLOSER AND LATCH ARE PROVIDED. ADD 4" IF CLOSER AND LATCHARE ROVIDED.

ADD 4" IF CLOSER IS PROVIDED. ADD 6" AT EXTERIOR SIDE OF EXTERIOR DOORS.

BEYOND HINGE SIDE.

404.2.4.2 DOORWAYS WITHOUT DOORS OR GATES, SLIDING DOORS, AND FOLDING DOORS. DOORWAYS LESS THAN 36" WIDE WITHOUT DOORS OR

GATES, SLIDING DOORS, OR FOLDING DOORS SHALL HAVE MANEUVERING CLEARANCES COMPLYING WITH TABLE 404.2.4.2. <u>TABLE 404.2.4.2 MANEUVERING CLEARANCES AT DOORWAYS WITHOUT DOORS OR GATES, MANUAL SLIDING DOORS AND MANUAL FOLDING DOORS</u>

TYPE OF USE	MIN.MANEUVE	RING CLEARANCE				
APPROACH DIRECTION	PERPENDICULAR TO DOORWAY	PARALLEL TO DOORWAY (BEYOND LATCH SIDE, U.N.O.)				
FROM FRONT	48"	0"				
FROM SIDE 1	42"	0"				
FROM POCKET/HINGE	42"	22" ²				
FROM STOP/LATCH SIDE	42"	24"				

DOORWAY WITH NO DOOR ONLY. BEYOND POCKET/HINGE SIDE

CHANGES IN LEVEL ARE NOT PERMITTED.

404.2.4.3 RECESSED DOORS AND GATES. MANEUVERING CLEARANCES FOR FORWARD APPROACH SHALL BE PROVIDED WHEN ANY OBSTRUCTION WITHIN 18 " (455 MM) OF THE LATCH SIDE OF A DOORWAY PROJECTS MORE THAN 8 " (205 MM) BEYOND THE FACE OF THE DOOR, MEASURED PERPENDICULAR TO THE FACE OF THE DOOR OR GATE.

ADVISORY 404.2.4.3 RECESSED DOORS AND GATES. A DOOR CAN BE RECESSED DUE TO WALL THICKNESS OR BECAUSE OF THE PLACEMENT OF CASEWORK AND OTHER FIXED ELEMENTS ADJACENT TO THE DOORWAY. THIS PROVISION MUST BE APPLIED WHEREVER DOORS ARE RECESSED.

404.2.4.4 FLOOR OR GROUND SURFACE. FLOOR OR GROUND SURFACE WITHIN REQUIRED MANEUVERING CLEARANCES SHALL COMPLY WITH 302

EXCEPTIONS: 1. SLOPES NOT STEEPER THAN 1:48 SHALL BE PERMITTED. CHANGES IN LEVEL AT THRESHOLDS COMPLYING WITH 404.2.5 SHALL BE PERMITTED

404.2.5 THRESHOLDS. THRESHOLDS, IF PROVIDED AT DOORWAYS, SHALL BE ½ " HIGH MAX. EXCEPTION: EXISTING OR ALTERED THRESHOLDS 3/4" HIGH MAX THAT HAVE A BEVELED

EDGE ON EACH SIDE WITH A SLOPE NOT STEEPER THAN 1:2 SHALL NOT BE REQUIRED TO COMPLY WITH 404.2.5

404.2.6 DOORS IN SERIES AND GATES IN SERIES. THE DISTANCE BETWEEN TWO HINGED OR PIVOTED DOORS IN SERIES AND GATES IN SERIES SHALL BE 48" MIN PLUS THE WIDTH OF DOORS OR GATES SWINGING INTO THE SPACE.

404.2.7 DOOR AND GATE HARDWARE. HANDLES. PULLS. LATCHES. LOCKS. AND OTHER OPERABLE PARTS ON DOORS AND GATES SHALL COMPLY WITH 309.4. OPERABLE PARTS OF SUCH HARDWARE SHALL BE 34" MIN AND 48" MAX ABOVE THE FINISH FLOOR OR GROUND. WHERE SLIDING DOORS ARE IN THE FULLY OPEN POSITION, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES. EXCEPTIONS: 1. EXISTING LOCKS SHALL BE PERMITTED IN ANY LOCATION AT EXISTING GLAZED DOORS WITHOUT STILES. EXISTING

OVERHEAD ROLLING DOORS OR GRILLES, AND SIMILAR EXISTING DOORS OR GRILLES THAT ARE DESIGNED WITH LOCKS THAT ARE

ACTIVATED ONLY AT THE TOP OR BOTTOM RAIL. ACCESS GATES IN BARRIER WALLS AND FENCES PROTECTING POOLS, SPAS, AND HOT TUBS SHALL BE PERMITTED TO HAVE OPERABLE PARTS OF THE RELEASE OF LATCH ON SELF-LATCHING DEVICES AT 54" MAX ABOVE THE FINISH FLOOR OR GROUND PROVIDED THE SELF-LATCHING DEVICES ARE NOT ALSO SELF-LOCKING

DEVICES AND OPERATED BY MEANS OF A KEY, ELECTRONIC OPENER, OR INTEGRAL COMBINATION LOCK.

404.2.8 CLOSING SPEED

404.2.8.1 DOOR CLOSERS AND GATE CLOSERS. DOOR CLOSERS AND GATE CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MIN. 404.2.8.2 SPRING HINGES. DOOR AND GATE SPRING HINGES SHALL BE ADJUSTED SO THAT FROM THE OPEN POSITION OF 70 DEGREES, THE DOOR OR GATE SHALL MOVE TO THE CLOSED POSITION IN 1.5 SECONDS MIN

404.2.9 DOOR AND GATE OPENING FORCE. FIRE DOORS SHALL HAVE A MIN OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY. THE FORCE FOR PUSHING OR PULLING OPEN A DOOR OR GATE OTHER THAN FIRE DOORS SHALL BE AS

FOLLOWS: INTERIOR HINGED DOORS AND GATES: 5 POUNDS MAX. SLIDING OR FOLDING DOORS: 5 POUNDS MAX.

404.2.10 DOOR AND GATE SURFACES. SWINGING DOOR AND GATE SURFACES WITHIN 10" OF THE FINISH FLOOR OR GROUND MEASURED VERTICALLY SHALL HAVE A SMOOTH SURFACE ON THE PUSH SIDE EXTENDING THE FULL WIDTH OF THE DOOR OR GATE. PARTS CREATING HORIZONTAL OR VERTICAL JOINTS IN THESE SURFACES SHALL BE WITHIN 1/16 "OF THE SAME PLANE AS THE OTHER. CAVITIES CREATED BY ADDED KICK PLATES SHALL BE CAPPED.

SLIDING DOORS SHALL NOT BE REQUIRED TO COMPLY WITH 404.2.10.

TEMPERED GLASS DOORS WITHOUT STILES AND HAVING A BOTTOM RAIL OR SHOE WITH THE TOP LEADING EDGE TAPERED AT 60 DEGREES MIN FROM THE HORIZONTAL SHALL NOT BE REQUIRED TO MEET THE 10" BOTTOM SMOOTH

SURFACE HEIGHT REQUIREMENT. DOORS AND GATES THAT DO NOT EXTEND TO WITHIN 10" OF THE FINISH FLOOR OR GROUND SHALL NOT BE REQUIRED TO COMPLY WITH 404.2.10.

EXISTING DOORS AND GATES WITHOUT SMOOTH SURFACES WITHIN 10" OF THE FINISH FLOOR OR GROUND SHALL NOT BE REQUIRED TO PROVIDE SMOOTH SURFACES COMPLYING WITH 404.2.10 PROVIDED THAT IF ADDED KICK PLATES ARE INSTALLED, CAVITIES CREATED BY SUCH KICK PLATES ARE CAPPED.

404.2.11 VISION LIGHTS. DOORS, GATES, AND SIDE LIGHTS ADJACENT TO DOORS OR GATES, CONTAINING ONE OR MORE GLAZING PANELS THAT PERMIT VIEWING THROUGH THE PANELS SHALL HAVE THE BOTTOM OF AT LEAST ONE GLAZED PANEL LOCATED 43" MAX ABOVE THE

<u>405 RAMPS</u>

405.2 SLOPE, RAMP RUNS SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN 1:12. EXCEPTION: IN EXISTING SITES, BUILDINGS, AND FACILITIES, RAMPS SHALL BE PERMITTED TO HAVE RUNNING SLOPES STEEPER THAN 1:12 COMPLYING WITH TABLE 405.2 WHERE SUCH SLOPES ARE NECESSARY DUE TO SPACE LIMITATIONS.

TABLE 405.2 MAX RAMP SLOPE AND RISE FOR EXISTING SITES, BUILDINGS, AND FACILITIES

STEEPER THAN 1:10, BUT LESS THAN 1:8 3" STEEPER THAN 1:12. BUT LESS THAN 1:10 6"	SLOPE	MAX RISE
STEEPER THAN 1:12. BUT LESS THAN 1:10 6"	STEEPER THAN 1:10, BUT LESS THAN 1:8	3"
, -	STEEPER THAN 1:12, BUT LESS THAN 1:10	6"

405.3 CROSS SLOPE. CROSS SLOPE OF RAMP RUNS SHALL NOT BE STEEPER THAN 1:48.

405.4 FLOOR OR GROUND SURFACES. FLOOR OR GROUND SURFACES OF RAMP RUNS SHALL COMPLY WITH 302. CHANGES IN LEVEL OTHER THAN THE RUNNING SLOPE AND CROSS SLOPE ARE NOT PERMITTED ON RAMP RUNS.

405.5 CLEAR WIDTH. THE CLEAR WIDTH OF A RAMP RUN AND, WHERE HANDRAILS ARE PROVIDED, THE CLEAR WIDTH BETWEEN HANDRAILS SHALL BE 36" MIN

405.6 RISE. THE RISE FOR ANY RAMP RUN SHALL BE 30" MAX.

405.7 LANDINGS. RAMPS SHALL HAVE LANDINGS AT THE TOP AND THE BOTTOM OF EACH RAMP RUN.

405.7.1 SLOPE. LANDINGS SHALL COMPLY WITH 302. CHANGES IN LEVEL ARE NOT PERMITTED. EXCEPTION: SLOPES NOT STEEPER THAN 1:48 SHALL BE PERMITTED.

405.7.2 WIDTH. THE LANDING CLEAR WIDTH SHALL BE AT LEAST AS WIDE AS THE WIDEST RAMP RUN LEADING TO THE LANDING. 405.7.3 LENGTH. THE LANDING CLEAR LENGTH SHALL BE 60" LONG MIN

405.7.4 CHANGE IN DIRECTION. RAMPS THAT CHANGE DIRECTION BETWEEN RUNS AT LANDINGS SHALL HAVE A CLEAR LANDING 60"X60" MIN

405.8 HANDRAILS. RAMP RUNS WITH A RISE GREATER THAN 6" SHALL HAVE HANDRAILS COMPLYING WITH 505.

405.9 EDGE PROTECTION. EDGE PROTECTION COMPLYING WITH 405.9.1 OR 405.9.2 SHALL BE PROVIDED ON EACH SIDE OF RAMP RUNS AND AT EACH SIDE OF RAMP LANDINGS.

- 1. EDGE PROTECTION SHALL NOT BE REQUIRED ON RAMPS THAT ARE NOT REQUIRED TO HAVE HANDRAILS AND HAVE SIDES
- 2. EDGE PROTECTION SHALL NOT BE REQUIRED ON THE SIDES OF RAMP LANDINGS SERVING AN ADJOINING RAMP RUN OR
- 3. EDGE PROTECTION SHALL NOT BE REQUIRED ON THE SIDES OF RAMP LANDINGS HAVING A VERTICAL DROP-OFF OF 1/2" MAX WITHIN 10" HORIZONTALLY OF THE MIN LANDING AREA SPECIFIED IN 405.7.

405.9.1 EXTENDED FLOOR OR GROUND SURFACE. THE FLOOR OR GROUND SURFACE OF THE RAMP RUN OR LANDING SHALL EXTEND 12" MIN BEYOND THE INSIDE FACE OF A HANDRAIL COMPLYING WITH 505.

405.9.2 CURB OR BARRIER. A CURB OR BARRIER SHALL BE PROVIDED THAT PREVENTS THE PASSAGE OF A 4" DIAMETER SPHERE. WHERE ANY PORTION OF THE SPHERE IS WITHIN 4" OF THE FINISH FLOOR OR GROUND SURFACE.

405.10 WET CONDITIONS. LANDINGS SUBJECT TO WET CONDITIONS SHALL BE DESIGNED TO PREVENT THE ACCUMULATION OF WATER.

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AS NOTED

T.L.P., A.D.E.

JUNE 13, 2024

ROJECT NO. 20-3480

REVISIONS:

01025 COUNTY SUBMITAL 1118 COUNTY RE-SUBMITAL

21216 BID ADDENDUM 1 30125 RE-BID DRAWINGS 31228 UPDATED SITE



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HEET NO.

504.3 OPEN RISERS. OPEN RISERS ARE NOT PERMITTED.

504.4 TREAD SURFACE. STAIR TREADS SHALL COMPLY WITH 302. CHANGES IN LEVEL ARE NOT PERMITTED. TREADS SHALL BE PERMITTED TO HAVE A SLOPE NOT STEEPER THAN 1:48.

504.5 NOSINGS. THE RADIUS OF CURVATUREAT THE LEADING EDGE OF THE TREAD SHALL BE ½" MAX. NOSINGS THAT PROJECT BEYOND RISERS SHALL HAVE THE UNDERSIDE OF THE LEADING EDGE CURVED OR BEVELED. RISERS SHALL BE PERMITTED TO SLOPE UNDER THE TREAD AT AN ANGLE OF 30 DEGREES MAX FROM VERTICAL. THE PERMITTED PROJECTION OF THE NOSING SHALL EXTEND 1½" MAX OVER THE TREAD BELOW.

504.6 HANDRAILS. STAIRS SHALL HAVE HANDRAILS COMPLYING WITH 505.

504.7 WET CONDITIONS. STAIR TREADS AND LANDINGS SUBJECT TO WET CONDITIONS SHALL BE DESIGNED TO PREVENT THE ACCUMULATION OF WATER.

505 HANDRAILS

505.2 WHERE REQUIRED. HANDRAILS SHALL BE PROVIDED ON BOTH SIDES OF STAIRS AND RAMPS WITH A RISE GREATER THAN 6".

505.3 CONTINUITY. HANDRAILS SHALL BE CONTINUOUS WITHIN THE FULL LENGTH OF EACH STAIR FLIGHT OR RAMP RUN. INSIDE HANDRAILS ON SWITCHBACK OR DOGLEG STAIRS AND RAMPS SHALL BE CONTINUOUS BETWEEN FLIGHTS OR RUNS.

505.4 HEIGHT. TOP OF GRIPPING SURFACES OF HANDRAILS SHALL BE 34" MIN AND 38" MAX VERTICALLY ABOVE WALKING SURFACES, STAIR NOSINGS, AND RAMP SURFACES. HANDRAILS SHALL BE AT A CONSISTENT HEIGHT ABOVE WALKING SURFACES, STAIR NOSINGS, AND RAMP SURFACES.

505.5 CLEARANCE. CLEARANCE BETWEEN HANDRAIL GRIPPING SURFACES AND ADJACENT SURFACES SHALL BE 1½" MIN

505.6 GRIPPING SURFACE. HANDRAIL GRIPPING SURFACES SHALL BE CONTINUOUS ALONG THEIR LENGTH AND SHALL NOT BE OBSTRUCTED ALONG THEIR TOPS OR SIDES. THE BOTTOMS OF HANDRAIL GRIPPING SURFACES SHALL NOT BE OBSTRUCTED FOR MORE THAN 20 PERCENT OF THEIR LENGTH. WHERE PROVIDED, HORIZONTAL PROJECTIONS SHALL OCCUR 1½" MIN BELOW THE BOTTOM OF THE HANDRAIL GRIPPING SURFACE.

EXCEPTIONS:

1. WHERE HANDRAILS ARE PROVIDED ALONG WALKING SURFACES WITH SLOPES NOT STEEPER THAN 1:20, THE BOTTOMS OF HANDRAIL GRIPPING SURFACES SHALL BE PERMITTED TO BE OBSTRUCTED ALONG THEIR ENTIRE LENGTH WHERE THEY ARE INTEGRAL TO CRASH RAILS OR BUMPER GUARDS.

REDUCED BY 1/8" FOR EACH 1/2" OF ADDITIONAL HANDRAIL PERIMETER DIMENSION THAT EXCEEDS 4".

2. THE DISTANCE BETWEEN HORIZONTAL PROJECTIONS AND THE BOTTOM OF THE GRIPPING SURFACE SHALL BE PERMITTED TO BE

505.7.1 CIRCULAR CROSS SECTION. HANDRAIL GRIPPING SURFACES WITH A CIRCULAR CROSS SECTION SHALL HAVE AN OUTSIDE DIAMETER OF 1¼ " MIN AND 2" MAX.

DIMENSION OF 4" MIN AND 61/4" MAX, AND A CROSS-SECTION DIMENSION OF 21/4" MAX.

505.7.2 NON-CIRCULAR CROSS SECTIONS. HANDRAIL GRIPPING SURFACES WITH A NON-CIRCULAR CROSS SECTION SHALL HAVE A PERIMETER

505.8 SURFACES. HANDRAIL GRIPPING SURFACES AND ANY SURFACES ADJACENT TO THEM SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS AND SHALL HAVE ROUNDED EDGES.

505.9 FITTINGS. HANDRAILS SHALL NOT ROTATE WITHIN THEIR FITTINGS.

505.10 HANDRAIL EXTENSIONS. HANDRAIL GRIPPING SURFACES SHALL EXTEND BEYOND AND IN THE SAME DIRECTION OF STAIR FLIGHTS AND RAMP RUNS IN ACCORDANCE WITH 505.10.

EXTENSIONS SHALL NOT BE REQUIRED FOR CONTINUOUS HANDRAILS AT THE INSIDE TURN OF SWITCHBACK OR DOGLEG STAIRS AND RAMPS.
 IN ALTERATIONS, FULL EXTENSIONS OF HANDRAILS SHALL NOT BE REQUIRED WHERE SUCH EXTENSIONS WOULD BE HAZARDOUS

DUE TO PLAN CONFIGURATION.

505.10.1 TOP AND BOTTOM EXTENSION AT RAMPS. RAMP HANDRAILS SHALL EXTEND HORIZONTALLY ABOVE THE LANDING FOR 12" MIN BEYOND THE TOP

AND BOTTOM OF RAMP RUNS. EXTENSIONS SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT RAMP RUN.

505.10.2 TOP EXTENSION AT STAIRS. AT THE TOP OF A STAIR FLIGHT, HANDRAILS SHALL EXTEND HORIZONTALLY ABOVE THE LANDING FOR 12" MIN BEGINNING DIRECTLY ABOVE THE FIRST RISER NOSING. EXTENSIONS SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT.

505.10.3 BOTTOM EXTENSION AT STAIRS. AT THE BOTTOM OF A STAIR FLIGHT, HANDRAILS SHALL EXTEND AT THE SLOPE OF THE STAIR FLIGHT FOR A HORIZONTAL DISTANCE AT LEAST EQUAL TO ONE TREAD DEPTH BEYOND THE LAST RISER NOSING. EXTENSION SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT.

603 TOILET AND BATHING ROOMS

603.2 CLEARANCES.

603.2.1 TURNING SPACE. TURNING SPACE COMPLYING WITH 304 SHALL BE PROVIDED WITHIN THE ROOM.

603.2.2 OVERLAP. REQUIRED CLEAR FLOOR SPACES, CLEARANCE AT FIXTURES, AND TURNING SPACE SHALL BE PERMITTED TO OVERLAP.

603.2.3 DOOR SWING. DOORS SHALL NOT SWING INTO THE CLEAR FLOOR SPACE OR CLEARANCE REQUIRED FOR ANY FIXTURE. DOORS SHALL BE PERMITTED TO SWING INTO THE REQUIRED TURNING SPACE.

2. WHERE THE TOILET ROOM OR BATHING ROOM IS FOR INDIVIDUAL USE AND A CLEAR FLOOR SPACE COMPLYING WITH 305.3 IS PROVIDED WITHIN THE ROOM BEYOND THE ARC OF THE DOOR SWING, DOORS SHALL BE PERMITTED TO SWING INTO THE CLEAR FLOOR SPACE OR CLEARANCE REQUIRED FOR ANY FIXTURE.

603.3 MIRRORS. MIRRORS LOCATED ABOVE LAVATORIES OR COUNTERTOPS SHALL BE INSTALLED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE 40" MAX ABOVE THE FINISH FLOOR OR GROUND. MIRRORS NOT LOCATED ABOVE LAVATORIES OR COUNTERTOPS SHALL BE INSTALLED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE 35" MAX ABOVE THE FINISH FLOOR OR GROUND.

603.4 COAT HOOKS AND SHELVES. COAT HOOKS SHALL BE LOCATED WITHIN ONE OF THE REACH RANGES SPECIFIED IN 308. SHELVES SHALL BE LOCATED 40" MIN AND 48" MAX ABOVE THE FINISH FLOOR.

603.5 ACCESSORIES. WHERE TOWEL OR SANITARY NAPKIN DISPENSERS, WASTE RECEPTACLES, OR OTHER ACCESSORIES ARE PROVIDED IN TOILET FACILITIES, AT LEAST ONE OF EACH TYPE SHALL BE LOCATED ON AN ACCESSIBLE ROUTE. ALL OPERABLE PARTS, INCLUDING COIN SLOTS, SHALL BE 40" MAX ABOVE THE FINISHED FLOOR.

604 WATER CLOSETS AND TOILET COMPARTMENTS

604.2 LOCATION. THE WATER CLOSET SHALL BE POSITIONED WITH A WALL OR PARTITION TO THE REAR AND TO ONE SIDE. THE CENTERLINE OF THE WATER CLOSET SHALL BE 16" MIN TO 18" MAX FROM THE SIDEWALL OR PARTITION.

604.3 CLEARANCE. CLEARANCES AROUND WATER CLOSETS AND IN TOILET COMPARTMENTS SHALL COMPLY WITH 604.3.

EXCEPTION: BABY CHANGING TABLES ARE NOT REQUIRED TO COMPLY WITH SECTION 603.5

604.3.1 SIZE. CLEARANCE AROUND A WATER CLOSET SHALL BE 60" MIN MEASURED PERPENDICULAR FROM THE SIDEWALL AND 56" MIN MEASURED PERPENDICULAR FROM THE REAR WALL.

604.3.2 OVERLAP. THE REQUIRED CLEARANCE AROUND THE WATER CLOSET SHALL BE PERMITTED TO OVERLAP THE WATER CLOSET, ASSOCIATED GRAB BARS, DISPENSERS, SANITARY NAPKIN DISPOSAL UNITS, COAT HOOKS, SHELVES, ACCESSIBLE ROUTES, CLEAR FLOOR SPACE AND CLEARANCES REQUIRED AT OTHER FIXTURES, AND THE TURNING SPACE. NO OTHER FIXTURES OR OBSTRUCTIONS SHALL BE LOCATED WITHIN THE REQUIRED WATER CLOSET CLEARANCE.

EXCEPTION: IN RESIDENTIAL DWELLING UNITS, A LAVATORY COMPLYING WITH 606 SHALL BE PERMITTED ON THE REAR WALL 18" MIN FROM THE WATER CLOSET CENTERLINE WHERE THE CLEARANCE AT THE WATER CLOSET IS 66" MIN MEASURED PERPENDICULAR FROM THE REAR WALL.

604.4 SEATS. THE SEAT HEIGHT OF A WATER CLOSET ABOVE THE FINISH FLOOR SHALL BE 15" MIN AND 19" MAX MEASURED TO THE TOP OF THE SEAT. SEATS SHALL NOT BE SPRUNG TO RETURN TO A LIFTED POSITION.

604.5 GRAB BARS. GRAB BARS FOR WATER CLOSETS SHALL COMPLY WITH 609. GRAB BARS SHALL BE PROVIDED ON THE SIDE WALL CLOSEST TO THE WATER CLOSET AND ON THE REAR WALL.

2. IN RESIDENTIAL DWELLING UNITS, GRAB BARS SHALL NOT BE REQUIRED TO BE INSTALLED IN TOILET OR BATHROOMS PROVIDED THAT REINFORCEMENT HAS BEEN INSTALLED IN WALLS AND LOCATED SO AS TO PERMIT THE INSTALLATION OF GRAB BARS COMPLYING WITH 604.5.

604.5.1 SIDE WALL. THE SIDE WALL GRAB BAR SHALL BE 42" LONG MIN, LOCATED 12" MAX FROM THE REAR WALL AND EXTENDING 54" MIN FROM THE REAR WALL.

604.5.2 REAR WALL. THE REAR WALL GRAB BAR SHALL BE 36" LONG MIN AND EXTEND FROM THE CENTERLINE OF THE WATER CLOSET 12" MIN ON ONE SIDE AND 24" MIN ON THE OTHER SIDE.

EXCEPTIONS: 1. THE REAR GRAB BAR SHALL BE PERMITTED TO BE 24" LONG MIN, CENTERED ON THE WATER CLOSET, WHERE WALL SPACE DOES NOT PERMIT A LENGTH OF 36" MIN DUE TO THE LOCATION OF A RECESSED FIXTURE ADJACENT TO THE WATER CLOSET.

604.6 FLUSH CONTROLS. FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC. HAND OPERATED FLUSH CONTROLS SHALL COMPLY WITH 309. FLUSH CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET.

606 LAVATORIES AND SINKS

606.2 CLEAR FLOOR SPACE. A CLEAR FLOOR SPACE COMPLYING WITH 305, POSITIONED FOR A FORWARD APPROACH, AND KNEE AND TOE CLEARANCE COMPLYING WITH 306 SHALL BE PROVIDED.

EXCEPTIONS:

1. A PARALLEL APPROACH COMPLYING WITH 305 SHALL BE PERMITTED TO A KITCHEN SINK IN A SPACE WHERE A COOK TOP OR

- CONVENTIONAL RANGE IS NOT PROVIDED AND TO WET BARS.

 3. IN RESIDENTIAL DWELLING UNITS, CABINETRY SHALL BE PERMITTED UNDER LAVATORIESAND KITCHEN SINK PROVIDED THAT ALL OF THE FOLLOWING CONDITIONS ARE MET:
- (a) THE CABINETRY CAN BE REMOVED WITHOUT REMOVAL OR REPLACEMENT OF THE FIXTURE;
- (b) THE FINISH FLOOR EXTENDS UNDER THE CABINETRY; AND(c) THE WALLS BEHIND AND SURROUNDING THE CABINETRY ARE FINISHED.
- THE DIP OF THE OVERFLOW SHALL NOT BE CONSIDERED IN DETERMINING KNEE AND TOE CLEARANCES.
 NO MORE THAN ONE BOWL OF A MULTI-BOWL SINK SHALL BE REQUIRED TO PROVIDE KNEE AND TOE CLEARANCE COMPLYING WITH

606.3 HEIGHT. LAVATORIESAND SINKS SHALL BE INSTALLED WITH THE FRONT OF THE HIGHER OF THE RIM OR COUNTER SURFACE 34" MAX ABOVE THE FINISH FLOOR OR GROUND.

EXCEPTIONS:
2. IN RESIDENTIAL DWELLING UNIT KITCHENS, SINKS THAT ARE ADJUSTABLE TO VARIABLE HEIGHTS, 29" MIN AND 36" MAX, SHALL BE PERMITTED WHERE ROUGH-IN PLUMBING PERMITS CONNECTIONS OF SUPPLY AND DRAIN PIPES FOR SINKS MOUNTED AT THE

606.4 FAUCETS. CONTROLS FOR FAUCETS SHALL COMPLY WITH 309. HAND-OPERATED METERING FAUCETS SHALL REMAIN OPEN FOR 10 SECONDS MIN

606.5 EXPOSED PIPES AND SURFACES. WATER SUPPLY AND DRAIN PIPES UNDER LAVATORIESAND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIESAND SINKS.

607 BATHTUBS

HEIGHT OF 29".

607.2 CLEARANCE. CLEARANCE IN FRONT OF BATHTUBS SHALL EXTEND THE LENGTH OF THE BATHTUB AND SHALL BE 30" WIDE MIN. A LAVATORY COMPLYING WITH 606 SHALL BE PERMITTED AT THE CONTROL END OF THE CLEARANCE. WHERE A PERMANENT SEAT IS PROVIDED AT THE HEAD END OF THE BATHTUB, THE CLEARANCE SHALL EXTEND 12" MIN BEYOND THE WALL AT THE HEAD END OF THE BATHTUB.

607.3 SEAT. A PERMANENT SEAT AT THE HEAD END OF THE BATHTUB OR A REMOVABLE IN-TUB SEAT SHALL BE PROVIDED. SEATS SHALL COMPLY WITH 610.

607.4 GRAB BARS. GRAB BARS FOR BATHTUBS SHALL COMPLY WITH 609 AND SHALL BE PROVIDED IN ACCORDANCE WITH 607.4 OR 607.4.2.

EXCEPTIONS:

2. IN RESIDENTIAL DWELLING UNITS, GRAB BARS SHALL NOT BE REQUIRED TO BE INSTALLED IN BATHTUBS LOCATED IN BATHING FACILITIES PROVIDED THAT REINFORCEMENT HAS BEEN INSTALLED IN WALLS AND LOCATED SO AS TO PERMIT THE INSTALLATION OF GRAB BARS COMPLYING WITH 607.4

607.4.1 BATHTUBS WITH PERMANENT SEATS. FOR BATHTUBS WITH PERMANENT SEATS, GRAB BARS SHALL BE PROVIDED IN ACCORDANCE WITH 607.4.1

607.4.1.1 BACK WALL. TWO GRAB BARS SHALL BE INSTALLED ON THE BACK WALL, ONE LOCATED IN ACCORDANCE WITH 609.4 AND THE OTHER LOCATED 8" MIN AND 10" MAX ABOVE THE RIM OF THE BATHTUB. EACH GRAB BAR SHALL BE INSTALLED 15" MAX FROM THE HEAD END AND 12" MAX FROM THE CONTROL END WALL.

607.4.1.2 CONTROL END WALL. A GRAB BAR 24" LONG MIN SHALL BE INSTALLED ON THE CONTROL END WALL AT THE FRONT EDGE OF THE BATHTUB.

607.4.2 BATHTUBS WITHOUT PERMANENT SEATS. FOR BATHTUBS WITHOUT PERMANENT SEATS, GRAB BARS SHALL COMPLY WITH 607.4.2

607.4.2.1 BACK WALL. TWO GRAB BARS SHALL BE INSTALLED ON THE BACK WALL, ONE LOCATED IN ACCORDANCE WITH 609.4 AND THE OTHER LOCATED 8" MIN AND 10" MAX ABOVE THE RIM OF THE BATHTUB. EACH GRAB BAR SHALL BE 24" LONG MIN AND SHALL BE INSTALLED 24" MAX FROM THE HEAD END WALL AND 12" MAX FROM THE CONTROL END WALL.

607.4.2.2 CONTROL END WALL. A GRAB BAR 24" LONG MIN. SHALL BE INSTALLED ON THE CONTROL END WALL AT THE FRONT EDGE OF THE BATHTUB.

607.4.2.3 HEAD END WALL. A GRAB BAR 12" LONG MIN SHALL BE INSTALLED ON THE HEAD END WALL AT THE FRONT EDGE OF THE BATHTUB.

607.5 CONTROLS. CONTROLS OTHER THAN DRAIN STOPPERS, SHALL BE LOCATED ON AN END WALL. CONTROLS SHALL BE BETWEEN THE BATHTUB RIM AND GRAB BAR, AND BETWEEN THE OPEN SIDE OF THE BATHTUB AND THE CENTERLINE OF THE WIDTH OF THE BATHTUB. CONTROLS SHALL COMPLY

607.6 SHOWER SPRAY UNIT AND WATER. A SHOWER SPRAY UNIT WITH A HOSE 59" LONG MIN THAT CAN BE USED BOTH AS A FIXED-POSITION SHOWER HEAD AND AS A HAND-HELD SHOWER SHALL BE PROVIDED. THE SHOWER SPRAY UNIT SHALL HAVE AN ON/OFF CONTROL WITH A NON-POSITIVE SHUT-OFF. IF AN ADJUSTABLE-HEIGHTS SHOWER HEAD ON A VERTICAL BAR IS USED, THE BAR SHALL BE INSTALLED SO AS NOT TO OBSTRUCT THE USE OF GRAB BARS. BATHTUB SHOWER SPRAY UNITS SHALL DELIVER WATER THAT IS 120'F MAX.

607.7 BATHTUB ENCLOSURES. ENCLOSURES FOR BATHTUBS SHALL NOT OBSTRUCT CONTROL, FAUCETS, SHOWER AND SPRAY UNITS OR OBSTRUCT TRANSFER FROM WHEELCHAIRS ONTO BATHTUB SEATS OR INTO BATHTUBS. ENCLOSURES ON BATHTUBS SHALL NOT HAVE TRACKS INSTALLED ON THE RIM OF THE OPEN FACE OF THE BATHTUB.

608 SHOWER COMPARTMENTS

608.2 SIZE AND CLEARANCES FOR SHOWER COMPARTMENTS. SHOWER COMPARTMENTS SHALL HAVE SIZES AND CLEARANCES COMPLYING WITH 608.2.

608.2.1 NOT USED

608.2.2 STANDARD ROLL-IN TYPE SHOWER COMPARTMENTS. STANDARD ROLL-IN TYPE SHOWER COMPARTMENTS SHALL BE 30" WIDE MIN X 60" DEEP MIN CLEAR INSIDE DIMENSIONS MEASURED AT CENTER POINTS OF OPPOSING SIDES AND SHALL HAVE A 60" WIDE MIN ENTRY ON THE FACE OF THE SHOWER COMPARTMENT.

 $608.2.2.1\ CLEARANCE.\ A\ 30"\ WIDE\ MIN\ X\ 60"\ LONG\ MIN\ CLEARANCE\ SHALL\ BE\ PROVIDED\ ADJACENT\ TO\ THE\ OPEN\ FACE\ OF\ THE\ SHOWER\ COMPARTMENT.$

EXCEPTION: A LAVATORY COMPLYING WITH 606 SHALL BE PERMITTED ON ONE 30" WIDE MIN SIDE OF THE CLEARANCE PROVIDED THAT IT IS NOT ON THE SIDE OF THE CLEARANCE ADJACENT TO THE CONTROLS OR, WHERE PROVIDED, NOT ON THE SIDE OF THE CLEARANCE ADJACENT OT THE SHOWER SEAT

608.2.3 ALTERNATE ROLL-IN TYPE SHOWER COMPARTMENTS. ALTERNATE ROLL-IN TYPE SHOWER COMPARTMENTS SHALL BE 36" WIDE AND 60" DEEP MIN CLEAR INSIDE DIMENSIONS MEASURED AT CENTER POINTS OF OPPOSING SIDES. A 36" WIDE MIN ENTRY SHALL BE PROVIDED AT ONE END OF THE LONG SIDE OF THE COMPARTMENT.

608.3 GRAB BARS. GRAB BARS SHALL COMPLY WITH 609 AND SHALL BE PROVIDED IN ACCORDANCE WITH 608.3. WHERE MULTIPLE GRAB BARS ARE USED, REQUIRED HORIZONTAL GRAB BARS SHALL BE INSTALLED AT THE SAME HEIGHT ABOVE THE FINISHED FLOOR.

2. IN RESIDENTIAL DWELLING UNITS, GRAB BARS SHALL NOT BE REQUIRED TO BE INSTALLED IN SHOWERS LOCATED IN BATHING FACILITIES PROVIDED THAT REINFORCEMENT HAS BEEN INSTALLED IN WALLS AND LOCATED SO AS TO PERMIT THE INSTALLATION OF GRAB BARS COMPLYING WITH 608.3.

608.3.1 TRANSFER TYPE SHOWER COMPARTMENTS. IN TRANSFER TYPE COMPARTMENTS, GRAB BARS SHALL BE PROVIDED ACROSS THE CONTROL WALL AND BACK WALL TO A POINT 18" FROM THE CONTROL WALL.

608.3.2 STANDARD ROLL-IN TYPE SHOWER COMPARTMENTS. WHERE A SEAT IS PROVIDED IN STANDARD ROLL-IN TYPE SHOWER COMPARTMENTS, GRAB BARS SHALL BE PROVIDED ON THE BACK WALL AND THE SIDE WALL OPPOSITE THE SEAT. GRAB BARS SHALL NOT BE PROVIDED ABOVE THE SEAT. WHERE A SEAT IS NOT PROVIDED IN STANDARD ROLL-IN TYPE SHOWER COMPARTMENTS, GRAB BARS SHALL BE PROVIDED ON THREE WALLS. GRAB BARS SHALL BE INSTALLED 6" MAX FROM ADJACENT WALLS.

608.3.3 ALTERNATE ROLL-IN TYPE SHOWER COMPARTMENTS. IN ALTERNATE ROLL-IN TYPE SHOWER COMPARTMENTS, GRAB BARS SHALL BE PROVIDED ON THE BACK WALL AND THE SIDE WALL FARTHEST FROM THE COMPARTMENT ENTRY. GRAB BARS SHALL NOT BE PROVIDED ABOVE THE SEAT. GRAB BARS SHALL BE INSTALLED 6" FROM ADJACENT WALLS.

608.4 SEATS. IN RESIDENTIAL DWELLING UNITS, SEATS SHALL NOT BE REQUIRED IN TRANSFER TYPE SHOWER COMPARTMENTS PROVIDED THAT REINFORCEMENT HAS BEEN INSTALLED IN WALLS SO AS TO PERMIT THE INSTALLATION OF SEATS.

608.5 CONTROLS. CONTROLS, FAUCETS, AND SHOWER SPRAY UNITS SHALL COMPLY WITH 309.4.

608.5.1 TRANSFER TYPE SHOWER COMPARTMENTS. IN TRANSFER TYPE SHOWER COMPARTMENTS, THE CONTROLS, FAUCETS, AND SHOWER SPRAY UNITS SHALL BE INSTALLED ON THE SIDE WALL OPPOSITE THE SEAT 38" MIN AND 48" MAX ABOVE THE SHOWER FLOOR AND SHALL BE LOCATED ON THE CONTROL WALL 15" MAX FROM THE CENTERLINE OF THE SEAT TOWARD THE SHOWER OPENING.

608.5.2 STANDARD ROLL-IN TYPE SHOWER COMPARTMENTS. IN STANDARD ROLL-IN TYPE SHOWER COMPARTMENTS, THE CONTROLS, FAUCETS, AND SHOWER SPRAY UNIT SHALL BE LOCATED ABOVE THE GRAB BAR, BUT NO HIGHER THAN 48" ABOVE THE SHOWER FLOOR. WHERE A SEAT IS PROVIDED, THE CONTROLS, FAUCETS, AND SHOWER SPRAY UNIT SHALL BE INSTALLED ON THE BACK WALL ADJACENT TO THE SEAT WALL AND SHALL BE LOCATED 27" MAX FROM THE SEAT WALL.

608.5.3 ALTERNATE ROLL-IN TYPE SHOWER COMPARTMENTS. IN ALTERNATIVE ROLL-IN SHOWER COMPARTMENTS, THE CONTROLS, FAUCETS, AND SHOWER SPRAY UNIT SHALL BE LOCATED ABOVE THE GRAB BAR, BUT NO HIGHER THAN 48" ABOVE THE SHOWER FLOOR. WHERE A SEAT IS PROVIDED, THE CONTROLS, FAUCETS, AND SHOWER SPRAY UNIT SHALL BE LOCATED ON THE SIDE WALL ADJACENT TO THE SEAT 27" MAX FROM THE SIDE WALL BEHIND THE SEAT OR SHALL BE LOCATED ON THE BACK WALL OPPOSITE THE SEAT 14" MAX, LEFT OR RIGHT, OF THE CENTERLINE OF THE SEAT. WHERE A SEAT IS NOT PROVIDED, THE CONTROLS, FAUCETS, AND SHOWER SPRAY UNITS SHALL BE INSTALLED ON THE SIDE WALL FARTHEST FROM THE COMPARTMENT ENTRY.

606.6 SHOWER SPRAY UNIT AND WATER. A SHOWER SPRAY UNIT WITH A HOSE 59" LONG MIN THAT CAN BE USED BOTH AS A FIXED-POSITION SHOWER HEAD AND AS A HAND-HELD SHOWER SHALL BE PROVIDED. THE SHOWER SPRAY UNIT SHALL HAVE AN ON/OFF CONTROL WITH A NON-POSITIVE SHUT-OFF. IF AN ADJUSTABLE-HEIGHT SHOWER HEAD ON A VERTICAL BAR IS USED, THE BAR SHALL BE INSTALLED SO AS NOT TO OBSTRUCT THE USE OF GRAB BARS, SHOWER SPRAY UNITS SHALL DELIVER WATER THAT IS 120'F MAX.

608.7 THRESHOLDS. THRESHOLDS IN ROLL-IN TYPE SHOWER COMPARTMENTS SHALL BE 1/2" HIGH MAX IN ACCORDANCE WITH 303. IN TRANSFER TYPE SHOWER COMPARTMENTS, THRESHOLDS 1/2" HIGH MAX SHALL BE BEVELED, ROUNDED, OR VERTICAL.

PROVISION OF A 1/2" HIGH THRESHOLD WOULD DISTURB THE STRUCTURAL REINFORCEMENT OF THE FLOOR SLAB.

608.8 SHOWER ENCLOSURES. ENCLOSURES FOR SHOWER COMPARTMENTS SHALL NOT OBSTRUCT CONTROLS, FAUCETS, AND SHOWER SPRAY

EXCEPTION: A THRESHOLD 2" HIGH MAX SHALL BE PERMITTED IN TRANSFER TYPE SHOWER COMPARTMENTS IN EXISTING FACILITIES WHERE

UNITS OR OBSTRUCT TRANSFER FROM WHEELCHAIRS ONTO SHOWER SEATS.

609 GRAB BARS

609.2 CROSS SECTION. GRAB BARS SHALL HAVE A CROSS SECTION COMPLYING WITH 609.2.1 OR 609.2.2

609.2.1 CIRCULAR CROSS SECTION. GRAB BARS WITH CIRCULAR CROSS SECTIONS SHALL HAVE AN OUTSIDE DIAMETER OF 11/4" MIN AND 2" MAX.

609.2.2 NON-CIRCULAR CROSS SECTION. GRAB BARS WITH NON-CIRCULAR CROSS SECTIONS SHALL HAVE A CROSS-SECTION DIMENSION OF 2" MAX AND A PERIMETER DIMENSION OF 4" MIN AND 4.8" MAX.

609.3 SPACING. THE SPACE BETWEEN THE WALL AND THE GRAB BAR SHALL BE 1½". THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS BELOW AND AT THE ENDS SHALL BE 1½" MIN. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS ABOVE SHALL BE 12" MIN. EXCEPTION: THE SPACE BETWEEN THE GRAB BARS AND SHOWER CONTROLS, SHOWER FITTINGS, AND OTHER GRAB BARS ABOVE SHALL BE PERMITTED TO BE 1½" MIN.

609.4 POSITION OF GRAB BARS. GRAB BARS SHALL BE INSTALLED IN A HORIZONTAL POSITION, 33" MIN AND 36" MAX ABOVE THE FINISH FLOOR MEASURED TO THE TOP OF THE GRIPPING SURFACE. THE HEIGHT OF THE LOWER GRAB BAR ON THE BACK WALL OF A BATHTUB SHALL COMPLY WITH 607.4.1.1 OR 607.4.2.1.

609.5 SURFACE HAZARDS. GRAB BARS AND ANY WALL OR OTHER SURFACES ADJACENT TO GRAB BARS SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS AND SHALL HAVE ROUNDED EDGES.

609.6 FITTINGS. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS

609.7 INSTALLATION. GRAB BARS SHALL BE INSTALLED IN ANY MANNER THAT PROVIDES A GRIPPING SURFACE AT THE SPECIFIED LOCATIONS AND THAT DOES NOT OBSTRUCT THE REQUIRED CLEAR FLOOR SPACE.

609.8 STRUCTURAL STRENGTH. ALLOWABLE STRESSES SHALL NOT BE EXCEEDED FOR MATERIALS USED WHEN A VERTICAL OR HORIZONTAL FORCE OF 250 POUNDS IS APPLIED AT ANY POINT ON THE GRAB BAR, FASTENER, MOUNTING DEVICE, OR SUPPORTING STRUCTURE.

<u>610 SEATS</u>

610.2 BATHTUB SEATS. THE TOP OF BATHTUB SEATS SHALL BE 17" MIN AND 19" MAX ABOVE THE BATHROOM FINISH FLOOR. THE DEPTH OF A REMOVABLE IN-TUB SEAT SHALL BE 15" MIN. AND 16" MAX. THE SEAT SHALL BE CAPABLE OF SECURE PLACEMENT. PERMANENT SEATS AT THE HEAD END OF THE BATHTUB SHALL BE 15" DEEP MIN AND SHALL EXTEND FROM THE BACK WALL TO OR BEYOND THE OUTER EDGE OF THE BATHTUB.

610.3 SHOWER COMPARTMENT SEATS. WHERE A SEAT IS PROVIDED IN A STANDARD ROLL-IN SHOWER COMPARTMENT, IT SHALL BE FOLDING TYPE, SHALL BE INSTALLED ON THE SIDE WALL ADJACENT TO THE CONTROLS, AND SHALL EXTEND FROM THE BACK WALL TO A POINT WITHIN 3" OF THE COMPARTMENT ENTRY. WHERE A SEAT IS PROVIDED IN AN ALTERNATE ROLL-IN TYPE SHOWER COMPARTMENT, IT SHALL BE A FOLDING TYPE, SHALL BE INSTALLED ON THE FRONT WALL OPPOSITE THE BACK WALL AND SHALL EXTEND FROM THE ADJACENT SIDE WALL TO A POINT WITHIN 3" OF THE COMPARTMENT ENTRY. IN TRANSFER-TYPE SHOWERS, THE SEAT SHALL EXTEND FROM THE BACK WALL TO A POINT WITHIN 3" OF THE COMPARTMENT ENTRY. THE TOP OF THE SEAT SHALL BE 17" MIN AND 19" MAX ABOVE THE BATHROOM FINISH FLOOR. SEATS SHALL COMPLY WITH 610.3.1 OR 610.3.2

610.3.1 RECTANGULAR SEATS. THE REAR EDGE OF A RECTANGULAR SEAT SHALL BE 2 1/2" MAX AND THE FRONT EDGE 15" MIN AND 16" MAX FROM THE SEAT WALL. THE SIDE EDGE OF THE SEAT SHALL BE 1 1/2" MAX FROM THE ADJACENT WALL.

610.3.2 L-SHAPED SEATS. THE REAR EDGE OF AN L-SHAPED SEAT SHALL BE 2 1/2" MAX AND THE FRONT EDGE 15" MIN AND 16" MAX FROM THE SEAT WALL. THE REAR EDGE OF THE "L" PORTION OF THE SEAT SHALL BE 1 1/2" MAX FROM THE WALL AND THE FRONT EDGE SHALL BE 14" MIN AND 15" MAX FROM THE WALL. THE END OF THE "L" SHALL BE 22" MIN AND 23" MAX FROM THE MAIN SEAT WALL.

610.4 STRUCTURAL STRENGTH. ALLOWABLE STRESSES SHALL NOT BE EXCEEDED FOR MATERIALS USED WHEN A VERTICAL OR HORIZONTAL FORCE OF 250 POUNDS IS APPLIED AT ANY POINT ON THE SEAT, FASTENER, MOUNTING DEVICE, OR SUPPORTING STRUCTURE.

611 WASHING MACHINES AND CLOTHES DRYERS

611.2 CLEAR FLOOR SPACE. A CLEAR FLOOR OR GROUND SPACE COMPLYING WITH 305 POSITIONED FOR PARALLEL APPROACH SHALL BE PROVIDED. THE CLEAR FLOOR OR GROUND SPACE SHALL BE CENTERED ON THE APPLIANCE.

611.3 OPERABLE PARTS. OPERABLE PARTS, INCLUDING DOORS, LINT SCREENS, AND DETERGENT AND BLEACH COMPARTMENTS SHALL COMPLY WITH 309.

611.4 HEIGHT. TOP LOADING MACHINES SHALL HAVE THE DOOR TO THE LAUNDRY COMPARTMENT LOCATED 36" MAX ABOVE THE FINISH FLOOR. FRONT LOADING MACHINES SHALL HAVE THE BOTTOM OF THE OPENING TO THE LAUNDRY COMPARTMENT LOCATED 15" MIN AND 36" MAX ABOVE THE FINISH FLOOR.

CHAPTER 7: COMMUNICATION ELEMENTS AND FEATURES

702 FIRE ALARM SYSTEMS

702.1 GENERAL. FIRE ALARM SYSTEMS SHALL HAVE PERMANENTLY INSTALLED AUDIBLE AND VISIBLE ALARMS COMPLYING WITH NFPA 72 (2016 EDITION) IN ADDITION, THE MAX ALLOWABLE SOUND LEVEL OF AUDIBLE NOTIFICATION APPLIANCES COMPLYING WITH SECTION 4-3.2.1 OF NFPA 72 (2016 EDITION) SHALL HAVE A SOUND LEVEL NO MORE THAN 110 DB AT THE MIN HEARING DISTANCE FROM THE AUDIBLE APPLIANCE. IN ADDITION, ALARMS IN GUEST ROOMS REQUIRED TO PROVIDE COMMUNICATION FEATURES SHALL COMPLY WITH SECTIONS 4-3 AND 4-4 OF NFPA 72 (2016 EDITION) OR SECTIONS 7.4 AND 7.5 OF NFPA 72 (2016 EDITION).

<u>703 SIGNS</u>

CHARACTER.

703.1 GENERAL. SIGNS SHALL COMPLY WITH 703. WHERE BOTH VISUAL AND TACTILE CHARACTERS ARE REQUIRED EITHER ONE SIGN WITH BOTH VISUAL AND TACTILE, OR TWO SEPARATE SIGNS, ONE WITH VISUAL, AND ONE WITH TACTILE CHARACTERS SHALL BE PROVIDED.

703.2 RAISED CHARACTERS.SHALL COMPLY WITH 703.2 SHALL BE DUPLICATED IN BRAILLE COMPLYING WITH 703.3. AND SHALL BE INSTALLED IN ACCORDANCE WITH 703.4

ADVISORY 703.2 RAISED CHARACTERS. SIGNS THAT ARE DESIGNED TO BE READ BY TOUCH SHOULD NOT HAVE SHARP OR ABRASIVE EDGES.
703.2.1 DEPTH. RAISED CHARACTERS SHALL BE 1/32 INCH (0.8 MM) MINIMUM ABOVE THEIR BACKGROUND.

703.2.2 CASE. CHARACTERS SHALL BE UPPERCASE.

703.2.3 STYLE. CHARACTERS SHALL BE SANS SERIF. CHARACTERS SHALL NOT BE ITALIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE, OR OF OTHER UNUSUAL FORMS.
703.2.4 CHARACTER PROPORTIONS. CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 55 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I".

703.2.5 CHARACTER HEIGHT. CHARACTER HEIGHT MEASURED VERTICALLY FROM THE BASELINE OF THE CHARACTER SHALL BE 5/8 INCH (16 MM)

MINIMUM AND 2 INCHES (51 MM) MAXIMUM BASED ON THE HEIGHT OF THE UPPERCASE LETTER "I".

703.2.6 STROKE THICKNESS. STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 15 PERCENT MAXIMUM OF THE HEIGHT OF THE

703.2.7 CHARACTER SPACING. CHARACTER SPACING SHALL BE MEASURED BETWEEN THE TWO CLOSEST POINTS OF ADJACENT RAISED CHARACTERS WITHIN A MESSAGE, EXCLUDING WORD SPACES. WHERE CHARACTERS HAVE RECTANGULAR CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/8 INCH (3.2 MM) MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM. WHERE CHARACTERS HAVE OTHER CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/16 INCH (1.6 MM) MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM AT THE BASE OF THE CROSS SECTIONS, AND 1/8 NCH (3.2 MM) MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM AT THE TOP OF THE CROSS SECTIONS. CHARACTERS SHALL BE SEPARATED FROM RAISED BORDERS AND DECORATIVE ELEMENTS 3/8 INCH (9.5 MM) MINIMUM.

703.2.8 LINE SPACING. SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF RAISED CHARACTERS WITHIN A MESSAGE SHALL BE 135 PERCENT MINIMUM AND 170 PERCENT MAXIMUM OF THE RAISED CHARACTER HEIGHT.

703.3 BRAILLE. BRAILLE SHALL BE CONTRACTED (GRADE 2) AND SHALL COMPLY WITH 703.3 AND 703.4.

703.4 INSTALLATION HEIGHT AND LOCATION. SIGNS WITH TACTILE CHARACTERS SHALL COMPLY WITH 703.4.

703.4.1 HEIGHT ABOVE FINISH FLOOR OR GROUND. TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48 INCHES (1220 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST TACTILE CHARACTER AND 60 INCHES (1525 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST TACTILE CHARACTER.EXCEPTION: TACTILE CHARACTERS FOR ELEVATOR CAR CONTROLS SHALL NOT BE REQUIRED TO COMPLY WITH 703.4.1.

703.4.2 LOCATION. WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR.WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18 INCHES (455 MM) MINIMUM BY 18 INCHES (455MM) MINIMUM, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION.EXCEPTION: SIGNS WITH TACTILE CHARACTERS SHALL BE

703.5 VISUAL CHARACTERS. SHALL COMPLY WITH 703.5

703.6 PICTOGRAMS. SHALL COMPLY WITH 703.6

703.7 SYMBOLS OF ACCESSIBILITY. SHALL COMPLY WITH 703.7. FINISH AND CONTRAST AND SYMBOLS.

PERMITTED ON THE PUSH SIDE OF DOORS WITH CLOSERS AND WITHOUT HOLD-OPEN DEVICES.

SIGN &
GINEERING

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ESIGNED:

L.D.

T.L.P., A.D.E.

SCALE:

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JUNE 13, 2024

ROJECT NO.

REVISIONS: 201025 COUNTY SUBMITAL 221118 COUNTY RE-SUBMITAL

20-3480

221216 BID ADDENDUM 1

230125 RE-BID DRAWINGS

231228 UPDATED SITE



AN2

HEET NO.

705.1.1 DOME SIZE. TRUNCATED DOMES IN A DETECTABLE WARNING SURFACE SHALL HAVE A BASE DIAMETER OF 0.9" MIN AND 1.4" MAX, A TOP DIAMETER OF 50 PERCENT OF THE BASE DIAMETER MIN TO 65 PERCENT OF THE BASE DIAMETER MAX, AND A HEIGHT OF 0.2".

705.1.2 DOME SPACING. TRUNCATED DOMES IN A DETECTABLE WARNING SURFACE SHALL HAVE A CENTER-TO- CENTER SPACING OF 1.6" MIN AND 2.4" MAX, AND A BASE-TO- BASE SPACING OF 0.65" MIN, MEASURED BETWEEN THE MOST ADJACENT DOMES ON A SQUARE GRID.

705.1.3 CONTRAST. DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH ADJACENT WALKING SURFACES EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT

705.2 PLATFORM EDGES. DETECTABLE WARNING SURFACES AT PLATFORM BOARDING EDGES SHALL BE 24" WIDE AND SHALL EXTEND THE FULL LENGTH OF THE PUBLIC USE AREAS OF THE PLATFORM.

706 ASSISTIVE LISTENING SYSTEMS

706.2 RECEIVER JACKS. RECEIVERS REQUIRED FOR USE WITH AN ASSISTIVE LISTENING SYSTEM SHALL INCLUDE A 1/8" STANDARD MONO

706.3 RECEIVER HEARING-AID COMPATIBILITY. RECEIVERS REQUIRED TO BE HEARING-AID COMPATIBLE SHALL INTERFACE WITH TELECOILS IN HEARING AIDS THROUGH THE PROVISION OF NECK LOOPS.

706.4 SOUND PRESSURE LEVEL. ASSISTIVE LISTENING SYSTEMS SHALL BE CAPABLE OF PROVIDING A SOUND PRESSURE LEVEL OF 110 DB MIN AND 118 DB MAX WITH A DYNAMIC RANGE ON THE VOLUME CONTROL OF 50 DB.

706.5 SIGNAL-TO-NOISE RATIO. THE SIGNAL-TO-NOISE RATIO FOR INTERNALLY GENERATED NOISE IN ASSISTIVE LISTENING SYSTEMS SHALL BE 18 DB MIN

706.6 PEAK CLIPPING LEVEL. PEAK CLIPPING SHALL NOT EXCEED 18 DB OF CLIPPING RELATIVE TO THE PEAKS OF SPEECH.

708 2-WAY COMMUNICATION SYSTEMS

708.1 GENERAL. TWO-WAY COMMUNICATION SYSTEMS SHALL COMPLY WITH 708.

708.2 AUDIBLE AND VISUAL INDICATORS. THE SYSTEM SHALL PROVIDE BOTH AUDIBLE AND VISUAL SIGNALS.

708.3 HANDSETS. HANDSET CORDS, IF PROVIDED, SHALL BE 29 " (735 MM) LONG MIN

CHAPTER 8: SPECIAL ROOMS, SPACES AND ELEMENTS

802. WHEELCHAIR SPACES, COMPANION SEATS, AND DESIGNATED AISLE SEATS 802.1 WHEELCHAIR SPACES. WHEELCHAIR SPACES SHALL COMPLY WITH 802.1.

802.1.1 FLOOR OR GROUND SURFACE. THE FLOOR OR GROUND SURFACE OF WHEELCHAIR SPACES SHALL COMPLY WITH 302. CHANGES IN LEVEL ARE NOT PERMITTED.

EXCEPTION: SLOPES NOT STEEPER THAN 1:48 SHALL BE PERMITTED.

802.2 LINES OF SIGHT. LINES OF SIGHT TO THE SCREEN, PERFORMANCE AREA, OR PLAYING FIELD FOR SPECTATORS IN WHEELCHAIR SPACES SHALL COMPLY WITH 802.2.

802.3 COMPANION SEATS. COMPANION SEATS SHALL COMPLY WITH 802.3.

803. DRESSING, FITTING, AND LOCKER ROOMS

MIN.

803.1 GENERAL. DRESSING, FITTING, AND LOCKER ROOMS SHALL COMPLY WITH 803.

ADVISORY 803.1 GENERAL. PARTITIONS AND DOORS SHOULD BE DESIGNED TO ENSURE PEOPLE USING ACCESSIBLE DRESSING AND FITTING ROOMS PRIVACY EQUIVALENT TO THAT AFFORDED OTHER USERS OF THE FACILITY, SECTION 903.5 REQUIRES DRESSING ROOM BENCH SEATS TO BE INSTALLED SO THAT THEY ARE AT THE SAME HEIGHT AS A TYPICAL WHEELCHAIR SEAT, 17 INCHES (430 MM) TO 19 INCHES (485 MM). HOWEVER, WHEELCHAIR SEATS CAN BE LOWER THAN DRESSING ROOM BENCHES FOR PEOPLE OF SHORT STATURE OR CHILDREN USING WHEELCHAIRS.

804 KITCHENS AND KITCHENETTES

804.2 CLEARANCE. WHERE A PASS THROUGH KITCHEN IS PROVIDED, CLEARANCES SHALL COMPLY WITH 804.2.1. WHERE A U-SHAPED KITCHEN IS PROVIDED. CLEARANCES SHALL COMPLY WITH 804.2.2.

EXCEPTION: SPACES THAT DO NOT PROVIDE A COOKTOP OR CONVENTIONAL RANGE SHALL NOT BE REQUIRED TO COMPLY WITH 804.2.

804.2.1 PASS THROUGH KITCHEN. IN PASS THROUGH KITCHENS WHERE COUNTERS, APPLIANCES OR CABINETS ARE ON TWO OPPOSING SIDES, OR WHERE COUNTERS, APPLIANCES OR CABINETS ARE OPPOSITE A PARALLEL WALL, CLEARANCE BETWEEN ALL OPPOSING BASE CABINETS, COUNTER TOPS, APPLIANCES, OR WALLS WITHIN KITCHEN WORK AREAS SHALL BE 40" MIN PASS THROUGH KITCHENS SHALL HAVE TWO ENTRIES.

804.2.2 U-SHAPED. IN U-SHAPED KITCHENS ENCLOSED ON THREE CONTIGUOUS SIDES, CLEARANCE BETWEEN ALL OPPOSING BASE CABINETS, COUNTER TOPS, APPLIANCES, OR WALLS WITHIN KITCHEN WORK AREAS SHALL BE 60" MIN.

804.3 KITCHEN WORK SURFACE. IN RESIDENTIAL DWELLING UNITS REQUIRED TO COMPLY WITH 809, AT LEAST ONE 30" WIDE MIN SECTION OF COUNTER SHALL PROVIDE A KITCHEN WORK SURFACE THAT COMPLIES WITH 804.3.

804.3.1 CLEAR FLOOR OR GROUND SPACE. A CLEAR FLOOR SPACE COMPLYING WITH 305 POSITIONED FOR A FORWARD APPROACH SHALL BE PROVIDED. THE CLEAR FLOOR OR GROUND SPACE SHALL BE CENTERED ON THE KITCHEN WORK SURFACE AND SHALL PROVIDE KNEE AND TOE CLEARANCE COMPLYING WITH 306.

EXCEPTION: CABINETRY SHALL BE PERMITTED UNDER THE KITCHEN WORK SURFACE PROVIDED THAT ALL OF

THE FOLLOWING CONDITIONS ARE MET: THE CABINETRY CAN BE REMOVED WITHOUT REMOVAL OR REPLACEMENT OF THE KITCHEN WORK SURFACE;

THE FINISH FLOOR EXTENDS UNDER THE CABINETRY; AND THE WALLS BEHIND AND SURROUNDING THE CABINETRY ARE FINISHED.

804.3.2 HEIGHT. THE KITCHEN WORK SURFACE SHALL BE 34" MAX ABOVE THE FINISH FLOOR OR GROUND.

EXCEPTION: A COUNTER THAT IS ADJUSTABLE TO PROVIDE A KITCHEN WORK SURFACE AT VARIABLE HEIGHTS 29" MIN AND 36" MAX, SHALL BE PERMITTED.

804.3.3 EXPOSED SURFACES. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER THE WORK SURFACE COUNTERS.

804.5 STORAGE. AT LEAST 50 PERCENT OF SHELF SPACE IN STORAGE FACILITIES SHALL COMPLY WITH 811.

804.6 APPLIANCES. WHERE PROVIDED, KITCHEN APPLIANCES SHALL COMPLY WITH 804.6.

804.6.2 OPERABLE PARTS. ALL APPLIANCE CONTROLS SHALL COMPLY WITH 309.

CONTROLS SHALL NOT REQUIRE REACHING ACROSS BURNERS.

804.6.1 CLEAR FLOOR OR GROUND SPACE. A CLEAR FLOOR OR GROUND SPACE COMPLYING WITH 305 SHALL BE PROVIDED AT EACH

2. BOTTOM-HINGED APPLIANCE DOORS, WHEN IN THE OPEN POSITION, SHALL NOT BE REQUIRED TO COMPLY WITH 309.3.

KITCHEN APPLIANCE. CLEAR FLOOR OR GROUND SPACES SHALL BE PERMITTED TO OVERLAP.

EXCEPTIONS: 1. APPLIANCE DOORS AND DOOR LATCHING DEVICES SHALL NOT BE REQUIRED TO COMPLY WITH 309.4.

804.6.3 DISHWASHER, CLEAR FLOOR OR GROUND SPACE SHALL BE POSITIONED ADJACENT TO THE DISHWASHER DOOR, THE DISHWASHER

DOOR, IN THE OPEN POSITION, SHALL NOT OBSTRUCT THE CLEAR FLOOR OR GROUND SPACE FOR THE DISHWASHER OR THE SINK. 804.6.4 RANGE OR COOKTOP, WHERE A FORWARD APPROACH IS PROVIDED. THE CLEAR FLOOR OR GROUND SPACE SHALL PROVIDE KNEE AND TOE CLEARANCE COMPLYING WITH 306. WHERE KNEE AND TOE SPACE IS PROVIDED, THE UNDERSIDE OF THE RANGE OR COOKTOP SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PREVENT BURNS, ABRASIONS, OR ELECTRICAL SHOCK. THE LOCATION OF

804.6.5 OVENS

804.6.5.1 SIDE-HINGED DOOR OVENS. SIDE-HINGED DOOR OVENS SHALL HAVE THE WORK SURFACE REQUIRED BY 804.3 POSITIONED ADJACENT TO THE LATCH SIDE OF THE OVEN DOOR.

804.6.5.2 BOTTOM-HINGED DOOR OVENS. BOTTOM-HINGED DOOR OVENS SHALL HAVE THE WORK SURFACE REQUIRED BY 804.3 POSITIONED ADJACENT TO ONE SIDE OF THE DOOR.

804.6.5.3 CONTROLS. OVENS SHALL HAVE CONTROLS ON FRONT PANELS.

804.6.6 REFRIGERATOR/FREEZER. COMBINATION REFRIGERATORS AND FREEZERS SHALL HAVE AT LEAST 50 PERCENT OF THE FREEZER SPACE 54" MAX ABOVE THE FINISH FLOOR OR GROUND. THE CLEAR FLOOR OR GROUND SPACE SHALL BE POSITIONED FOR A PARALLEL APPROACH TO THE SPACE DEDICATED TO A REFRIGERATOR/ FREEZER WITH THE CENTERLINE OF THE CLEAR FLOOR OR GROUND SPACE OFFSET 24" MAX FROM THE CENTERLINE OF THE DEDICATED SPACE.

811 STORAGE

811.1 GENERAL. STORAGE SHALL COMPLY WITH 811.

811.2 CLEAR FLOOR OR GROUND SPACE. A CLEAR FLOOR OR GROUND SPACE COMPLYING WITH 305 SHALL BE PROVIDED.

811.3 HEIGHT. STORAGE ELEMENTS SHALL COMPLY WITH AT LEAST ONE OF THE REACH RANGES SPECIFIED IN 308.

811.4 OPERABLE PARTS. OPERABLE PARTS SHALL COMPLY WITH 309.

CHAPTER 9: BUILT-IN ELEMENTS

902: DINING SURFACES AND WORK SURFACES

GENERAL. DINING SURFACES AND WORK SURFACES SHALL COMPLY WITH 902.2 AND 902.3

902.2 CLEAR FLOOR OR GROUND SPACE. A CLEAR FLOOR SPACE COMPLYING WITH 305 POSITIONED FOR A FORWARD APPROACH SHALL BE PROVIDED. KNEE AND TOE CLEARANCE COMPLYING WITH 306 SHALL BE PROVIDED.

902.3 HEIGHT. THE TOPS OF DINING SURFACES AND WORK SURFACES SHALL BE 28" MIN AND 34" MAX ABOVE THE FINISH FLOOR OR GROUND.

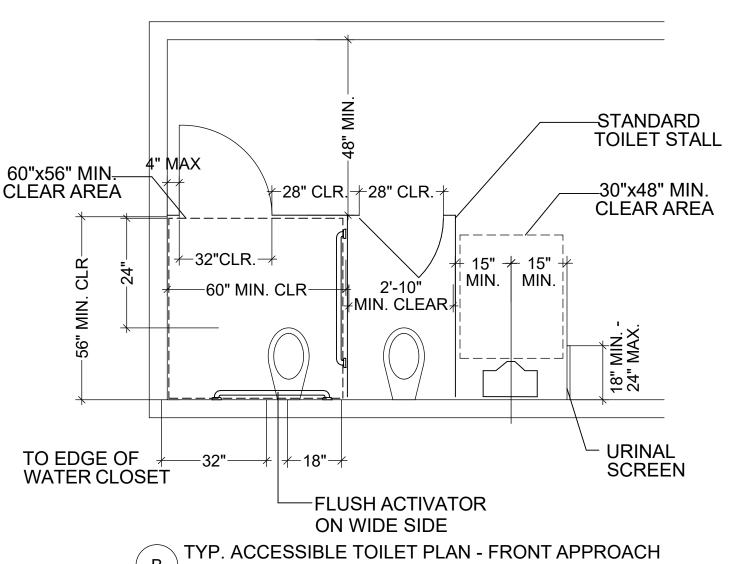
904 CHECK-OUT AISLES AND SALES AND SERVICE COUNTERS. GENERAL. CHECK-OUT AISLES AND SALES AND SERVICE COUNTERS SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF 904. APPROACH. ALL PORTIONS OF COUNTERS REQUIRED TO COMPLY WITH 904 SHALL BE LOCATED ADJACENT TO A WALKING SURFACE COMPLYING WITH 403.

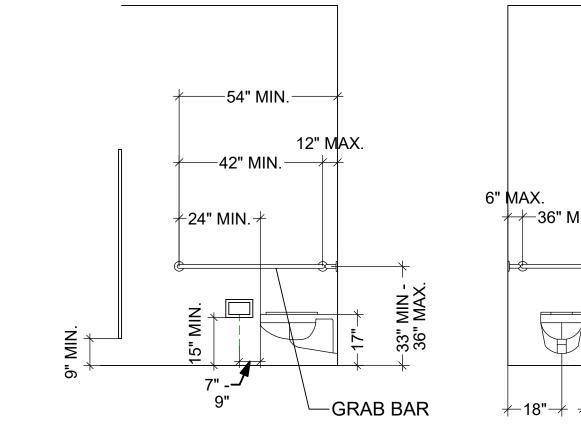
904.5 FOOD SERVICE LINES. COUNTERS IN FOOD SERVICE LINES SHALL COMPLY WITH 904.5

-60" MIN. CLR-STANDARD **TOILET STALL** 1" MAX 60"x56" MIN-60"x56" CLEAR AREA 30"x48" MIN. ⊬28" CLR.-**CLEAR AREA CLEAR AREA** ∕−32"CLR.*→* MIN. MIN. -60" MIN. CLR--2'-10" MIN CLEAR TO EDGE OF WATER CLOSET URINAL TO EDGE OF

→ 32"

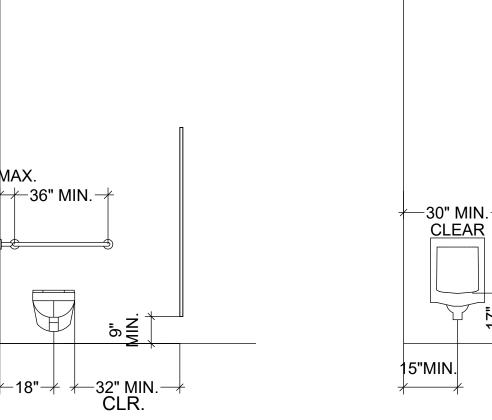
— **SCREEN** WATER CLOSET FLUSH ACTIVATOR ON WIDE SIDE TYP. ACCESSIBLE TOILET PLAN - SIDE APPROACH





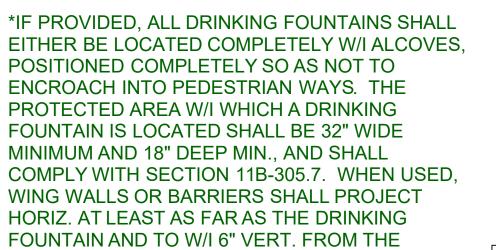
TOILET PAPER & SEAT COVER DISPENSER TO BE RECESSED

*AT ACCESSIBLE TOILETS

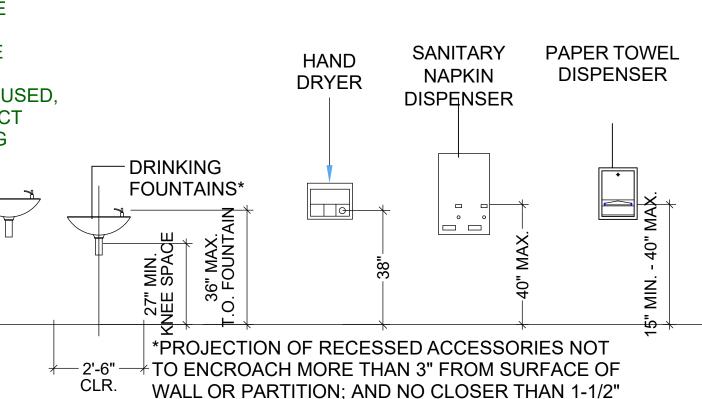


TYP. ACCESSIBLE TOILET STALL LAYOUT

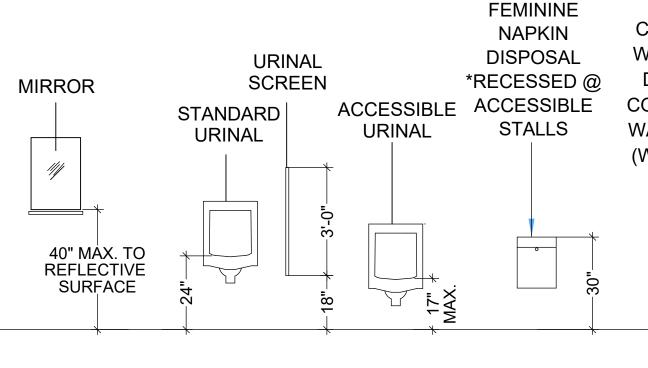
TYP. ACC. URINAL STALL LAYOUT

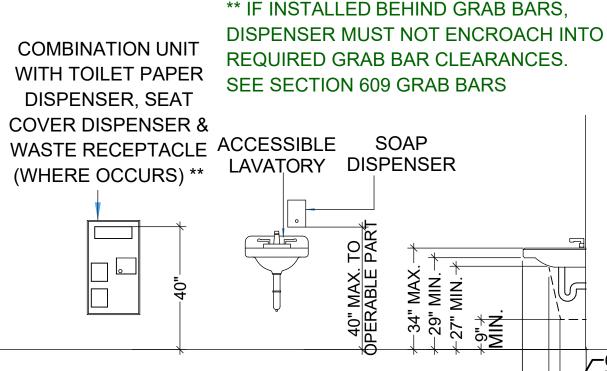


FLOOR OR GROUND SURFACE.



TO TANGENT POINT OF GRAB BAR.

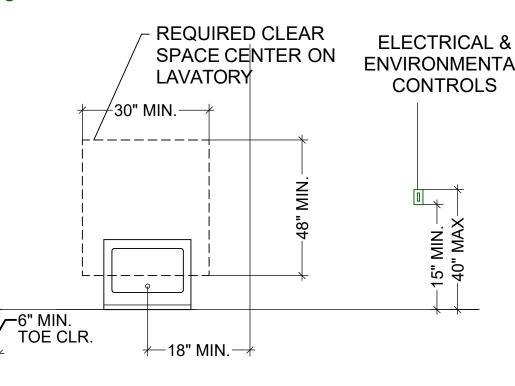




8" MIN.

KNEE CLR.

17" MIN. 19" MAX.



ENVIRONMENTAL CONTROLS

AN3

31228 UPDATED SITE

ROJECT NO.

ESI NG

L.D.

T.L.P., A.D.E.

AS NOTED

JUNE 13, 2024

20-3480

01025 COUNTY SUBMITAL 1118 COUNTY RE-SUBMITA 21216 BID ADDENDUM 1 30125 RE-BID DRAWINGS

PPROVED OF CALL ujedahl

PROJECT: Karuk Infant/Toddler Center Remodel 38010 Highway 96,

Orleans, CA 95556

530.629.3000

BUILDING ENERGY ANALYSIS REPORT

Project Designer: Trinity Valley Consulting Engineers P.O. Box 1567 Willow Creek, CA 95573

Report Prepared by: Anne McQueeney ABBAY TECHNICAL SERVICES 1125 16th Street Arcata, CA 95521 707.826.1433

> Job Number: 21017

> > Date: 1/28/2021

The EnergyPro computer program has been used to perform the calculations summarized in this compliance report. This program has approval and authorized by the California Energy Commission for use with both the Residential and Nonresidential 2019 Building Energy Efficiency Standards. This program developed by EnergySaft Software - www.energysaft.com.

	PATRICE			m) 4	- Hardware		NRCC-PRF-D1-E		Page 1 of 18		
Proje	ect Address:	38010 High	way 96	6, Orleans 95556	5		Calculation Date	/Time:	11:46, Thu,	an 28, 2021	
Input	t File Name:	21017 Karu	k Infan	nt-Toddler Cente	r W Electric Htr.cibd19x						
A. GI	ENERAL INFORM	ATION									
1.	Project Location ((city)		Orleans	;	8.	Standards Versio	n		Compliance2019	
2.	CA Zip Code	2000		95556		9.	Compliance Soft	ware (version) EnergyPro 8.2			
3.	Climate Zone			2		10.	Weather File			UKIAH_725905_CZ201	10.epw
4.	Total Conditioned	l Floor Area in	Scope	1,652 ft	12	11.	Building Orienta	ion (deg)	(S) 180 deg	
5.	Total Uncondition	ned Floor Area	1	11 ft ²		12.	Permitted Scope	of Work		ExistingAlteration	
6.	6. Total # of Stories (Habitable Above Grade) 1 7. Total # of dwelling units 0 8. PROJECT SUMMARY					13	Building Type(s)			Nonresidential	
7.	Total # of dwelling	g units	TOT LIST THE COUNTY TOTAL			14	Gas Type			Propane	
	ait application										
perm											
perm	пс аррисасіон.	В	Building	g Components C	omplying via Performance				Buildin	g Components Complyi	ng Prescriptively
perm	Building Comp				Performance		llowing buildi	ng components are ON	LY eligible for prescriptive		
	a	В		Performance	omplying via Performance Covered Process: Commercial Kitchens			compli the sco	llowing buildi	ng components are ON uld be documented on mit application (i.e. cor	LY eligible for prescriptive the NRCC form listed if with
Envel	elope (see Table G)	75		Performance	Covered Process: Commercial Kitchens	F	Not Included	the sco	llowing buildi ance and sho ope of the per NRCC-PRF-E)	ng components are ON uld be documented on mit application (i.e. cor	LY eligible for prescriptive the NRCC form listed if with
Envel	elope (see Table G)	75		Performance Not Included	Covered Process: Commercial	×	Not Included Performance	compli the sco on the	llowing buildi ance and sho ope of the per NRCC-PRF-E)	ang components are ON. uld be documented on mit application (i.e. cor conditioned)§140.6	LY eligible for prescriptive the NRCC form listed if with mpliance will not be shown
Envel	lope (see Table G) hanical (see Table H	4)		Performance Not Included Performance	Covered Process: Commercial Kitchens Covered Process: Computer Rooms	×	Not Included Performance Not Included	compli the sco on the Indoor	llowing buildi ance and sho ope of the per NRCC-PRF-E) Lighting (Und	ing components are ON. uld be documented on mit application (i.e. cor conditioned)§140.6	LY eligible for prescriptive the NRCC form listed if with mpliance will not be shown NRCC-LTI-E
Envel	lope (see Table G) hanical (see Table H	4)		Performance Not Included Performance Not Included	Covered Process: Commercial Kitchens		Not Included Performance Not Included Performance	compli the sco on the Indoor	llowing building ance and sho ope of the per NRCC-PRF-E) Lighting (Undor Lighting §1	ing components are ON. uld be documented on mit application (i.e. cor conditioned)§140.6	LY eligible for prescriptive the NRCC form listed if with mpliance will not be shown NRCC-LTI-E NRCC-LTO-E NRCC-LTS-E
6. Total # of Stories (Habitable Above Grade) 7. Total # of dwelling units B. PROJECT SUMMARY Table Instructions: Table B shows which building components are included in the perform permit application. Building Components Complying via Performance Performance Covered Process: Commer Kitchens	Covered Process: Commercial Kitchens Covered Process: Computer Rooms		Not Included Performance Not Included Performance	complite sccon the Indoor Outdo Sign Li	llowing buildinance and sho ppe of the per NRCC-PRF-E): Lighting (Undoor Lighting §1 ghting §140.8 cal power systor requirement	ng components are ON uld be documented on mit application (i.e. cor conditioned)§140.6 40.7 Mandatory Meass	LY eligible for prescriptive the NRCC form listed if with inpliance will not be shown NRCC-LTI-E NRCC-LTO-E NRCC -LTS-E ures lolar ready, elevator and should on the NRCC form				
Envel Mech Dome	A. GENERAL INFORMATION 1. Project Location (city) Orleans 2. CA Zip Code 95556 3. Climate Zone 2 4. Total Conditioned Floor Area in Scope 1,652 ft² 5. Total Unconditioned Floor Area 11 ft² 6. Total # of Stories (Habitable Above Grade) 1 7. Total # of dwelling units 0 3. PROJECT SUMMARY Table Instructions: Table B shows which building components are included in the performance permit application. Building Components Complying via Performance Covered Process: Commercial Covered Process: Commercial Covered Process: Commercial Covered Process: Computer Not Included Covered Process: Laboratory Onto Included Covered Process: Laboratory Cover	Covered Process: Commercial Kitchens Covered Process: Computer Rooms		Not Included Performance Not Included Performance	compliante scoon the Indoor Outdo Sign Li Electric escala listed i NRCC-	llowing buildi ance and sho ope of the per NRCC-PRF-E) Lighting (Undor Lighting §1 ghting §140.8 cal power systor requirements of applicable (in PRF-E.)	ng components are ON. uld be documented on mit application (i.e. cor conditioned)§140.6 40.7 Mandatory Meass tems, commissioning, s ints are mandatory and	LY eligible for prescriptive the NRCC form listed if with inpliance will not be shown NRCC-LTI-E NRCC-LTO-E NRCC -LTS-E ures lolar ready, elevator and should on the NRCC form			
Mech Dome Lighti	hanical (see Table H eestic Hot Water (see ting (Indoor Conditi e K)	AL INFORMATION ct Location (city)	Covered Process: Commercial Kitchens Covered Process: Computer Rooms		Not Included Performance Not Included Performance	complete scoon the scoon the Indoor Outdo Sign Li	llowing buildi ance and sho ope of the per NRCC-PRF-E) Lighting (Undor Lighting §1 ghting §140.8 cal power systor requirements of applicable (in PRF-E.)	ng components are ON. uld be documented on mit application (i.e. cor conditioned)§140.6 40.7 Mandatory Meass tems, commissioning, s ints are mandatory and i.e. compliance will not tribution \$110.11	LY eligible for prescriptive the NRCC form listed if with inpliance will not be shown NRCC-LTI-E NRCC-LTO-E NRCC -LTS-E ures olar ready, elevator and is should on the NRCC form be shown on the		

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Rated Capacity (kBtuh)

Heating Cooling

Design

300

1000

System Type

Uncontrolled

Tank Type

Insulated Door14

Project Name: 21017 Karuk Infant/Toddler Center Remodel

Project Address: 38010 Highway 96, Orleans 95556

Input File Name: 21017 Karuk Infant-Toddler Center W Electric Htr.cibd19x

H7. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

1-101 Unisex Restroom 1-101 Unisex - Exi-Trm Restroom - Exi

2-102 Toddler Toilet - 2-102 Toddler Toilet Exis-Trm - Exis

H8. EVAPORATIVE COOLER SUMMARY

Zone Name

3-105

I. DOMESTIC/SERVICE HOT WATER SYSTEM SUMMARY

Heater Element

12. MULTI-FAMILY CENTRAL DHW SYSTEM DETAILS

13. SOLAR HOT WATER HEATING SUMMARY

Type

System ID

3-105 Kitchen/Laundry

- Exi-Trm

This Section Does Not Apply

DHW Name

This Section Does Not Apply

This Section Does Not Apply

Report Generated at: 2021-01-28 11:47:33

	21017 Karuk Infant/Toddler Center Remodel	NRCC	PRF-D1-E	Page 2 of 18				
Project Address:	38010 Highway 96, Orleans 95556	Calcul	tion Date/Time:	11:46, Thu, Jan 28, 2021				
Input File Name:	21017 Karuk Infant-Toddler Center W Electric Htr.	tibd19x						
C1. COMPLIANCE F	RESULTS FOR PERFORMANCE COMPONENTS (Ann	ual TDV Energy Use, kBtu/ft 2-	r)					
		COMPLIES						
	Energy Component	Standard Design (TDV)	Pro	posed Design (TDV)	Compliance Margin (TDV) ¹			
Space Heating			56.35	42.96	23.39			
Space Cooling			86.49	83.97	2.52			
Indoor Fans		1	23.83	105.57	18.26			
Heat Rejection				-				
Pumps & Misc.				-				
Domestic Hot Water			12.11	42.11				
Indoor Lighting			10.38	32.40	7.9			
ENERGY STAN	DARDS COMPLIANCE TOTAL	359	.16	307.01	52.15 (14.5%)			
Notes: The number	er in parenthesis following the Compliance Margin	in column 4. represents the Per	ent Better than	Standard.				
C2. RESULTS FOR 'A	ABOVE CODE' QUALIFICATIONS ¹							
F 120 CF 577F 3 CF 12	ABOVE CODE' QUALIFICATIONS ¹ suing CalGreen Tier 1		☐ This proj	ect is pursuing CalGreen Tier :	i			
☐This project is purs		Standard Design (TDV)		ect is pursuing CalGreen Tier a	2 Compliance Margin (TDV) ¹			
☐This project is purs	suing CalGreen Tier 1							
□This project is purs Receptacle	suing CalGreen Tier 1		Pro	posed Design (TDV)				
□This project is purs Receptacle Process	suing CalGreen Tier 1		Pro	posed Design (TDV)				
This project is purs Receptacle Process Other Ltg	suing CalGreen Tier 1		73.08	posed Design (TDV) 73.08				
This project is purs Receptacle Process Other Ltg Process Motors	suing CalGreen Tier 1		73.08	posed Design (TDV) 73.08				

Report Generated at: 2021-01-28 11:47:33

4 5 6 7 8 9

Assembly Method Area ft² Overall U-factor SHGC VT Exp.

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-10092020-6384

21017 Karuk Infant/Toddler Center Remodel 38010 Highway 96, Orleans 95556

estration Assembly Name / Tag or I.D. Fenestration Type / Product Type / Certification Method¹

Project Address: 38010 Highway 96, Orleans 95556

Input File Name: 21017 Karuk Infant-Toddler Center W Electric Htr.cibd19x

G5. FENESTRATION ASSEMBLY SUMMARY

Project Address:	38010 Highway 96, Orl	eans 95556	C	alculation Date/Time	: 11:46, Thu, Jan 28, 20	21	
Input File Name:	21017 Karuk Infant-Too	dler Center W Electric Htr.cibd19x	×				
C3. ENERGY USE S	UMMARY						
C3. ENERGY USE SUMMARY Energy Component Space Heating Space Cooling Indoor Fans Heat Rejection Pumps & Misc. Domestic Hot Water Indoor Lighting Compliance Total Receptacle		Standard Design Site (MWh)	Proposed Design S (MWh)	te Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
		7.00	2.9	1 1 200	27.5	1.00-00	
		3.1	3.1	0.0	-		
	Indoor Fans	6.2	6.0	0.2	\$=<	>=<	-
	Heat Rejection	-	-			-	- 8
	umps & Misc.			- I 1			- 5-
Do	nestic Hot Water		(A)	10 30 1	18,3	18.3	0.0
J	ndoor Lighting	2.3	1.9	0.4) H	-
Co	ompliance Total	11.6	13.9	-Z.3	45.9	18.3	27.6
	Receptacle	4.3	4.3	0.0			
	Process		1		-		122
	Other Ltg	0.0	0.0				
F	rocess Motors	**				**	27.6
	TOTAL	15.9	18.2	-2.3	45.9	18.3	
	ONDITIONS des space(s) that are design e proposed and standard cas	ed to be served by mechanical coo es. aust be field-verified by a certified I					
	he building tables below.						
	he building tables below.						

21017 Karuk Infant/Toddler Center Remodel 38010 Highway 96, Orleans 95556

H1. DRY SYSTEM EQUIPMENT (furnaces, air handling units, heat pumps, VRF, economizers etc.)

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Project Name: 21017 Karuk Infant/Toddler Center Remodel

Project Address: 38010 Highway 96, Orleans 95556

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Name or Item Tag

3-lamp fluorescent troffer, F3218, one dimmable electronic ballast)

Watts per luminaire

4ft Ceiling LED 45W

K2. INDOOR CONDITIONED LIGHTING SCHEDULE Luminaire Schedule (includes all permanent installed lighting in

102Toddler

conditioned space, and portable lighting over 0.3 w/ft² in

Input File Name: 21017 Karuk Infant-Toddler Center W Electric Htr.cibd19x

Project Name: Project Address:

	21017 Karuk iniai	it/ loadier Center Remo	del		NRCC-	PRF-01-E	Page 4 of 18		
Project Address:	38010 Highway 9	6, Orleans 95556			Calcula	ation Date/Tim	e: 11:46, Thu, Jan	28, 202	21
nput File Name:	21017 Karuk Infai	nt-Toddler Center W Ele	ctric Htr.cibd19x						
G1. ENVELOPE GEN	NERAL INFORMATIO	N (conditioned space	s only)						
	1		2			3			4
Opaque Surf	aces & Orientation	Total Gro	oss Surface Area	(ft²)	Tot	al Fenestration	ı Area (ft²)		Window to Wall Ratio (%)
	North-Fac	cing ¹		360 ft ²			68 ft ²		18.9%
	East-Fac	cing ²		380 ft ²			60 ft ²		15.8%
	South-Fac	cing ³		360 ft ²			74 ft ²		20.6%
	West-Fac	cing ⁴		352 ft ²			58 ft ²		16.5%
	-	Total Total		1,452 ft ²			260 ft ²		17.9%
Roof				1,652 ft ²			0 ft ²		00.0%
South-Facing is or West-Facing is ori	riented to within 45 diented to within 45 de	grees of true east, inc legrees of true south, egrees of true west, in	luding 45°00'00 including 45°00	0" south of ed 0'00" west of	st (SE), but o south (SW),	excluding 45° but excluding	00'00" north of eas 45°00'00" east of	t (NE). south	(SE).
³ South-Facing is or ⁴ West-Facing is ori G2. CRRC ROOFING This Section Does No	riented to within 45 defented to within 45 d	grees of true east, inc legrees of true south, ggrees of true west, in	luding 45°00'00 including 45°00	0" south of ed 0'00" west of	st (SE), but o south (SW),	excluding 45° but excluding	00'00" north of eas 45°00'00" east of	t (NE). south	(SE).
3 South-Facing is or 4 West-Facing is ori G2. CRRC ROOFING This Section Does No G3. OPAQUE SURF	riented to within 45 dented to within 45 dente	grees of true east, inc legrees of true south, ggrees of true west, in	luding 45°00'00 including 45°00	0" south of ed 0'00" west of	st (SE), but o south (SW),	excluding 45° but excluding	00'00" north of eas 45°00'00" east of	t (NE). south h of w	(SE).
South-Facing is or West-Facing is or West-Facing is or Section Does No. 13. OPAQUE SURF.	Total Facing is oriented to within 45 degrees of true north, including 45°00′00″ east of north (NE), but excluding 45°00′00″ north of east (NE). **Practing is oriented to within 45 degrees of true west, including 45°00′00″ north of due west (NW), but excluding 45°00′00″ south of west (SW). **RRC ROOFING PRODUCT SUMMARY** 1 2 3 4 5 6 7 7 8 9 9 Surface Name Surface Type Area (Rt¹) Framing Cavity Wood frame for total value. Wood frames for color for polymore for the color of the c	(SE). est (SW).							
3 South-Facing is or 4 West-Facing is ori G2. CRRC ROOFING This Section Does No G3. OPAQUE SURF 1 Surface	riented to within 45 defented to within 45 d	grees of true east, inc egrees of true south, rgrees of true west, in RY MARY 2 Surface Type	luding 45°00'00 including 45°00'00 cluding 45°00'00	0" south of ec 0'00" west of 00" north of o	st (SE), but of south (SW), lue west (NV) 5 Cavity R-Value	excluding 45° but excluding V), but exclud 6 Continuous R-Value	20'00" north of east 45°00'00" east of ing 45°00'00" sout	t (NE). south h h of we	9 Description of Assembly Layers Asphalt shingles - 1/4 in. Vapor permeable felt - 1/8 in. Plywood - 1/2 in. Air - Cavity - Wall Roof Ceiling - 4 in. o

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Project Name:	,						NRCC-	PRF-01-E	Page 5	of 18		
roject Address:	38010 Highway	96, Orleans 95556					Calcula	ation Date/Tim	ne: 11:46,	Thu, Jan	28, 202	21
nput File Name:	21017 Karuk In	fant-Toddler Cente	r W Electi	ric Htr.cibd19x								
33. OPAQUE SURFAC	E ASSEMBLY SU	MMARY							1			
1 2				3	4		5	6	7		8	9
Surface Na	ime	Surface Ty	e	Area (ft²)	Framing Type		vity alue	Continuous R-Value	U-Factor / C-Fac		Status ¹	Description of Assembly Layers
Default Floor Crav	wlspace17	ExteriorFlo	or	1652	NA		0	NA	U-Factor:	0.099	E	Vented Crawl Space Plywood - 1/2 in. Carpet - 3/4 in.
Default Roof20		Roof		1593	Wood	1	.9	NA	U-Factor:	actor: 0.055 E		Asphalt shingles - 1/4 in. Vapor permeable felt - 1/8 in. Plywood - 1/2 in. Air - Cavity - Wall Roof Ceiling - 4 in. or more Wood framed roof, 16in. OC, 3.5in., R-19 Gypsum Board - 1/2 in.
Default Wal	ll121	InteriorWall		28	Wood	Wood 11		NA	U-Factor:	0.103	E	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Wood framed wall, 16in. OC, 3.5in., R-11 Gypsum Board - 1/2 in.
R-13 Wall65		ExteriorWall		12	Wood	1	.3	NA	U-Factor:	0.102	А	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Wood framed wall, 16in. OC, 3.5in., R-13 Gypsum Board - 1/2 in.
Slab On Grade83		UndergroundFloor		11	NA		0	NA	F-Factor:	0.730	E	Slab Type = UnheatedSlabOnGrade Insulation Orientation = None Insulation R-Value = R0
Status: N - New, A – Altered, E	– Existing			•								
4. OPAQUE DOOR S	UMMARY											
	1						2					3
As	sembly Name				(Overall	U-fact	or				Status ¹

0.200

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Airflow (cfm)

Min.

Efficiency Tank Insulation R-value (Int/Ext) Standby Loss Fraction Type

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Report Generated at: 2021-01-28 11:47:33

Fan

Tank Location or Ambient Condition

H1. DRY SYSTEM EQU 1 Equipment Name Wall Heater 1		3 Type Qty	onits, heat pumps, VR Dry System Equipment 1 4 Total Heating Output (kBtu/h) 5		fo included below in Ta	oble N) 7 Efficiency Elec. Res	Out	8 Cotal Cooling put (kBtu/h)	9 ciciency	10 Status ⁵ N
1 1. DRY SYSTEM EQU	IPMENT (furnac	3	Ory System Equipment ¹ 4 Total Heating Output	(Fan & Economizer Inf	fo included below in Ta 6 ng Supp Heat Output	7	,	Co tal Cooling	Fffi		
11. DRY SYSTEM EQU	IPMENT (furnac	, ,	Dry System Equipment ¹	(Fan & Economizer in	fo included below in Ta				poling	9	
11. DRY SYSTEM EQU	IPMENT (furnac	, ,	Dry System Equipment ¹	(Fan & Economizer int	fo included below in Ta			8		9	10
						able N)					
		ces, air handling u	nits, heat pumps, VR	F, economizers etc.)						
I. HVAC SYSTEM SUM	IMARY										
his Section Does Not Ap	pply										
7. FIN DETAILS											
his Section Does Not Ap	oply		,								
66. OVERHANG DETA											
Status: N - New, A – Altered, E	- Existing										
verification. Site-built fenestra	tion values are calcula		the CEC default tables found in opendix NA6 and are used in th		u.b-B. Center of Glass (COG)	values are for the	giass-only, aete	rminea by the i	nanujacturer,	ana are snow	n jor ease
		N/A									
NFRC Rated Sliding G	lass Door	VerticalFene OperableW		NFRC Rated	Manufacture	ıd	40	0.46	0.22	0.50	А
NFRC Rated Glass	Door	VerticalFene: GlazedD N/A		NFRC Rated	Manufacture	d	40	0.46	0.22	0.50	A
		N/A		NEKC Kaleu	Manufacture	d	180	0.46	0.22	0.50	A
NFRC Rated Wir	ndow	OperableW	indow	NFRC Rated							

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1	2		3	4		5		6				8		9	
							Heatin	ıg					Coolin	g	Status ⁵
Equipment Name	Equipme	nt Type	Qty	Total Heating (kBtu/h		Supp Heat (Y/N		Supp Heat C (kBtuh			iency	Total Co Output (k		Efficiency	
Minisplit or Eq.	SZHP (Spli	t3Phase)	1	50		No	Ì	0		HSPF-10.30		43		SEER-19.70 / EER-10.50	N
Status: N - New, A – Altere	d, E – Existing														
I2. FAN SYSTEMS S	SUMMARY ¹					-									
1	2	3	4	5	6		7	8	9		10		11	12	13
	System Type	Design OA		Su	pply Fan	1				Ret	urn Fan	•			/pe Status
Name or Item Tag	packaged, DOAS, etc.	CFM	CFM	ВНР	Watt	s Co	ontrol	CFM	ВНІ	P	Watts	Co	ntrol	Economizer Type (if present)	
Wall Heater 1	HV	0	300	0.006	5.0	Consta	ntVolume	NA	NA		NA		NA	NoEconomiz	er N
Wall Heater 2	HV	0	300	0.006	5.0	Consta	ntVolume	NA	NA		NA		NA	NoEconomiz	er N
Minisplit or Eq.	SZHP	294	1000	1.100	948.2	Consta	ntVolume	NA	NA	NA NA		NA		NoEconomizer	
Status: N - New, A – Altere	d, E – Existing														
13. EXHAUST FAN S	SUMMARY					_	1								
1				2		3		1	5		6		7		
System	ID		Zone	Name		Qty	CF	M	Motor BHP		Motor W	atts	tts Total Static Pressure (in		H20)
101 Unisex Rest	room - Exi3	1-10)1 Unisex	Restroom - Exi		1	8	0	0.03	0	26.0			1.54	
I4. Wet System Eq	winmont /hoilor	a shillana sa	alina ta												
	dipilient (boller	· ·	<u> </u>						1				1	T T	
1		2	3	4		5		6	-	7	8	9 10		11	12
	Name or Item Tag Fourinment Type Oty Vol.(gal) Rate			Canacity		ciency Stan		ndby Loss Qty		Pumps ry GPM HP			Status ¹		

Dry System Equipment ¹ (Fan & Economizer info included below in Table N)

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Installed Watts (Conditioned)

Yes

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Installed Watts

NRCC-PRF-01-E

roject Name:	21017 Karuk II	nfant/Toddler Cent	er Remodel		NRCC-PRF-01-E Page 8 of 18		of 18				
roject Address:	38010 Highwa	y 96, Orleans 9555	6		Calculation Date	ion Date/Time: 11:46, Thu, Jan 28,			21		
nput File Name:	21017 Karuk II	nfant-Toddler Cente	er W Electric Htr.cibd19x								
I5. SYSTEM SPECIAL	FEATURES										
1		2	3	3 4		5				6	
System Name	Ol	ptimum Start	Window Interlocks per §140.4(n)	Evaporati	vaporative Cooling Heat Recovery		very		Other Controls		
Wall Heater 1	No	Optimum Start	NA	No Evapora	ative Cooler	No	Heat Rec	overy		No DCV Contr No Econ Io Supply Air 1	
Wall Heater 2	No	Optimum Start	NA	No Evapora	ative Cooler	No	Heat Rec	overy		No DCV Contr No Econ Io Supply Air 1	omizer
Minisplit or Eq.	No	Optimum Start	NA	No Evaporative Cooler		No Heat Recovery		No DCV Controls, No Recovery No Economizer No Supply Air Temp. C		omizer	
DHW1 - SHW		NA	NA	N	IA		NA		Fixed	l Temperature	Control, No DDC
tes: This table includes contr	rols related to the perf	ormance path only. For p	projects using the prescriptive path,	mandatory and preso	riptive controls require	ments are d	ocumented o	on the NRCC-MCH-	E.		
16. MECHANICAL VE	NTILATION										
1		2	3	4	5	6		7	Т	8	9

2	3	4	5	6	7	8	9
		Mecha	nical Ventilatio	n			DCV or Occup
Ventilation Function	# hotel rooms	# of people	# of bedrooms	Supply OA CFM	Exhaust CFM	Conditioned Area (sf)	Sensor Contro or Both
Exhaust - Toilets, public	0	0.35	0	0	80	70	NA
Exhaust - Toilets, public	0	0.41	0	0	0	81	NA
Misc - All others Education - Daycare (through age 4) Office - Office space	0	30.46	0	294	0	1501	NA
	Exhaust - Toilets, public Exhaust - Toilets, public Misc - All others Education - Daycare (through age 4)	Exhaust - Toilets, public 0 Exhaust - Toilets, public 0 Misc - All others Education - Daycare (through age 4) 0	Ventilation Function # hotel rooms # of people Exhaust - Toilets, public 0 0.35 Exhaust - Toilets, public 0 0.41 Misc - All others Education - Daycare (through age 4) 0 30.46	Ventilation Function # hotel rooms # of people bedrooms Exhaust - Toilets, public 0 0.35 0 Exhaust - Toilets, public 0 0.41 0 Misc - All others Education - Daycare (through age 4) 0 30.46 0	Ventilation Function # hotel rooms # of people bedrooms Supply OA CFM Exhaust - Toilets, public 0 0.35 0 0 Exhaust - Toilets, public 0 0.41 0 0 Misc - All others Education - Daycare (through age 4) 0 30.46 0 294	Ventilation Function # hotel rooms # of people # of bedrooms Supply OA CFM Exhaust CFM Exhaust - Toilets, public 0 0.35 0 0 80 Exhaust - Toilets, public 0 0.41 0 0 0 Misc - All others Education - Daycare (through age 4) 0 30.46 0 294 0	Mechanical Ventilation Ventilation Function # hotel rooms # of people bedrooms Supply OA CFM bedrooms Exhaust CFM Area (sf) Conditioned Area (sf) Exhaust - Toilets, public 0 0.35 0 0 80 70 Exhaust - Toilets, public 0 0.41 0 0 0 81 Misc - All others Education - Daycare (through age 4) 0 30.46 0 294 0 1501

Multifamily or Hotel/Motel Occupancy? (if "Yes", see DOMESTIC/SERVICE HOT WATER SYSTEM SUMMARY)	No
Does the Project include Zonal Systems?	Yes

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Tank Vol Rated Input (gal) (kBtu/h)

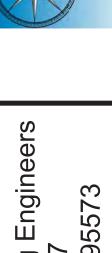
EXISTING2 Gas Storage 1 50.00 40 EF: 0.57 NA SBLF: NA NA

Project Name:	21017 Karuk Infant/Toddler Center	Remodel	N	NRCC-PRF-01-E Page 10 of 18						
Project Address:	38010 Highway 96, Orleans 95556		C	Calculation Date/Time: 11:46, Thu, Jan 28,		8, 2021				
Input File Name:	21017 Karuk Infant-Toddler Center	W Electric Htr.cibd19x								
J. COVERED PROCESS S	SUMMARY									
This Section Does Not Ap	ply									
K. INDOOR LIGHTING	SUMMARY									
K1. INDOOR CONDITION	ONED LIGHTING GENERAL INFO									
								Confi	rmed	
1	2	3	4		5		Pass		Pag	
	Conditioned Floor Area ²	Installed Lighting Power	Lighting Cont	vaccsy		Additional (Custom) Allowance		ss	Fail	
Occupancy Type ¹	(ft²)	(Watts)				Category Footnotes (Watts)	Tailored Method (Watts)			
Restrooms	151	90	0			0	0			
General/Commercial & Industrial Work Area (Lov Bay)	v 209	90	0	0 0		0	0			
Classroom, Lecture, Train Vocational Areas	ing, 1,148	675 0				0	0			
Office Area (<250 square feet)	144	50	0		0	0				
Building Tot	tals: 1,652	905	0		0	0				
K2. INDOOR CONDITION	oned spaces spaces modeled is not included in the table DNED LIGHTING SCHEDULE udes all permanent installed lighting ortable lighting over 0.3 w/ft² in	in		Installed Wa	tts (Cond	litioned)		Confi	rmed	
	Complete Luminaire Description (i	.e.,	How Watta	ge is Determi	ned	Tatal November				
Name or Item Tag	3-lamp fluorescent troffer, F32T8 one dimmable electronic ballast		CEC Default from NA8	Accordii §130.0		Total Number Luminaires	Installed Watts	Pass	Fail	
100Office	Ceiling Mounted 25W	25	No	Yes		2	50			
101Unisex	4ft Ceiling LED 45W	45	No	Yes		1	45			

102100010	· I	THE COMING ELD TO	**	45	1 110	1 103	1 *		43	1 -	-
103Infant		4ft Ceiling LED 45	W	45	No	Yes	6		270		
104Toddle	r	4ft Ceiling LED 45	W	45	No	Yes	7		315		T
105Kitche	n	4ft Ceiling LED 45	W	45	No	Yes	2		90		1
106Nap		4ft Ceiling LED 45	W	45	No	Yes	2		90		Τ
If lighting power dens	ties were u	sed in the compliance model Buildii	ng Departments	will need to check prescriptive for	orms for Luminaire Sch	nedule details.		,			
K3. INDOOR CO	NDITIO	NED LIGHTING CONTRO	L CREDITS								_
Lighting Con	trol Cred	lits Schedule (includes all li compliance credit per §14			d space for	Con	trol Credit Calcula	tion	√ If Acceptance	Confi	irme
Location in Building		pancy Type (must meet ements of Table 140.6-A)	Control (i.e	escription of Lighting , partial on occupancy nanual dimming, etc.)	# of Units	Watts of Controlled Lighting	Power Adjustment Factor	Control Cre Watts	1 '	Pass	F
S-1-101 Unisex Restroom - Exi		Restrooms	none spe	cified none specified cified none specified ione specified -	0		0.000.000.000.0	0			
S-2-102 Toddler Toilet - Exis		Restrooms	none spe	cified none specified cified none specified one specified -	0		0.000.000.000.0	0			
S-3-105 Kitchen/Laundr y - Exi		I/Commercial & Industrial Vork Area (Low Bay)	none spe	cified none specified cified none specified one specified -	0		0.000.000.000.0	0			
S-4-103 Infant Room - Existin	Class	room, Lecture, Training, Vocational Areas	none spe	cified none specified cified none specified one specified -	0		0.000.000.000.0	0			
S-5-100 Office - Existing	Office	Area (<250 square feet)	none spe	cified none specified cified none specified none specified -	0		0.000.000.000.0	0			

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No



y Consulting Engi O. Box 1567 Creek, CA 95573 y Valley P.(Willow (

e 24 Building Energy Report Jk Infant/Toddler Center Remodel 38010 Highway 96, Orleans, CA 95556 **Title** 7

Remodel Report Building To 10 fant/ 3801 Or 24

STATE OF CALIFORNIA Indoor Lighting CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-ITI-F Plan Sheet Showing Daylit Zones: Multi-level exempt: ≤0.5W/sq.ft §130.1(b) Restrooms: Multi-level exempt: Restrooms exempt, §130.1(b), Exception 2; Daylighting

Registration Date/Time:

Report Version: 2019.1.003

Schema Version: rev 20200601

H. INDOOR LIGHTING CONTROLS (Not including PAFs) *NOTES: Controls with a * require a note in the space below explaining how compliance is achieved. EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1

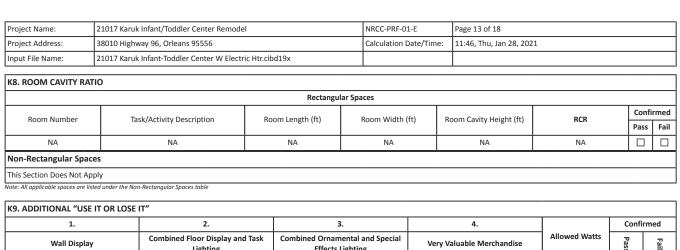
	exempt: ≤2	4sq.ft glazing, §130.1(d), Exception 4	70.1(b), Exception 2,				
102 Toddler Toilet		Multi-level exempt: Restrooms exempt, §1: 4sq.ft glazing, §130.1(d), Exception 4	30.1(b), Exception 2;	Daylighting		Electrical	
105 Kitchen/Laundry	Multi-level §130.1(d), E	exempt: ≤0.5W/sq.ft §130.1(b); Daylighting Exception 4	exempt: ≤24sq.ft gla	zing,			
Mechanical Room	Multi-level	exempt: ≤0.5W/sq.ft §130.1(b)					
I. LIGHTING POWER ALLOW	VANCE: COM	IPLETE BUILDING OR AREA CATEGORY	METHODS		'		
Each area complying using the §140.6(c) or adjustments per		uilding or Area Category Methods per <u>§140.</u> e being used .	<u>6(b)</u> are included in t	his table. Colun	nn 06 indicates if additio	onal lighting power	allowa
			<u>6(b)</u> are included in t	his table. Colun	nn 06 indicates if additio	onal lighting power	allowa
§140.6(c) or adjustments per			5(b) are included in t	his table. Colun	nn 06 indicates if addition		allowa
\$140.6(c) or adjustments per Conditioned Spaces	<u>§140.6(a)</u> are	e being used .		04			16
§140.6(c) or adjustments per Conditioned Spaces	<u>§140.6(a)</u> are	e being used .	03		05	0	16
\$140.6(c) or adjustments per Conditioned Spaces	<u>\$140.6(a)</u> are	02 omplete Building or Area Category Primary	03 Allowed Density	04	05 Allowed Wattage	O Additional Allowa	16
\$140.6(c) or adjustments per Conditioned Spaces 01 Area Description	\$140.6(a) are Co	02 omplete Building or Area Category Primary Function Area	03 Allowed Density (W/ft²)	04 Area (ft²)	05 Allowed Wattage (Watts)	Additional Allowa	16

§140.6(c) or adjustments per §140.6(a) are being used .	<u>sy</u> are meladed me	ans tabler colum	m co marcates y address	snar ngnang power	u
Conditioned Spaces						
01	02	03	04	05	0)6
Area Description	Complete Building or Area Category Primary	Allowed Density	Area (ft²)	Allowed Wattage	Additional Allowa	ince
Area Description I .	Function Area	(W/ft ²)	Alea (It)	(Watts)	Area Category	
101 Unisex Restroom - Existing	Restrooms	0.65	70	45.5	No	
102 Toddler Toilet - Existing	Restrooms	0.65	81	52.6	No	
105 Kitchen/Laundry - Existing	General Commercial Industrial Work AreaLow Bay	0.6	209	125.4	No	
103 Infant Room - Existing	Classroom, Lecture, or Training Vocational Area	0.7	465	325.5	No	
100 Office - Existing	Office 250 square feet or less	0.7	144	100.8	No	
104 Toddler Room - Existing	Classroom, Lecture, or Training Vocational Area	0.7	533	373.1	No	

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

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Registration Provider: Energysoft Report Generated: 2021-01-28 11:50:16



1.	2.	3.	4.		Confi	irmed
Wall Display	Combined Floor Display and Task Lighting	Combined Ornamental and Special Effects Lighting	Very Valuable Merchandise	Allowed Watts	Pass	Fail
0	0	0	0	0		
K10. Wall Display						
This Section Does Not Apply						

Kto. Wali Display	
This Section Does Not Apply	
K11. Floor Display and Task Lighting	
This Section Does Not Apply	
K12. Combined Ornamental and Special Effects Lighting	
This Section Does Not Apply	

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K13. Very Valuable Merchandise his Section Does Not Apply

Building Component	YES	NO	Form/Title	Fi Insp	ielo oec
- '				Pass	F
Envelope			NRCI-ENV-01-E - Must be submitted for all buildings		T
Mechanical			NRCI-MCH-01-E - Must be submitted for all buildings		T
			NRCI-PLB-01-E - Must be submitted for all buildings		T
		×	NRCI-PLB-02-E - Must be submitted for high-rise residential and hotel/ motel central hot water distribution systems to be recognized for compliance		
Plumbing		×	NRCI-PLB-03-E - Must be submitted for high-rise residential and hotel/motel single dwelling unit hot water system distribution systems to be recognized for compliance		
		\boxtimes	NRCI-PLB-21-E - Must be HERS verified for central systems in high-rise residential hotel/ motel application		T
		×	NRCI-PLB-22-E - Must be HERS verified for single dwelling unit systems in high-rise residential, hotel/motel application		
		\boxtimes	NRCI-STH-01-E - Must be submitted for solar hot water heating systems		T
			NRCI-LTI-01-E - Must be submitted for all buildings		T
		×	NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS) to be recognized for compliance		T
Indoor Lighting		×	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance		T
		\boxtimes	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance		T
		×	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance		T
Covered Process		\boxtimes	NRCI-PRC-01-E - Must be submitted for all Covered Processes		Τ

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Installation must be submitted for the features to be recognized for

compliance. These documents bust be retained and provided to the building inspector during construction and can be found online at:

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STATE OF CALIFORNIA **Indoor Lighting**

Project Address:

B. PROJECT SCOPE

Registration Number:

CALIFORNIA ENERGY COMMISSION

NRCC-LTI-E

§141.0(b)2 for alterations.

☐ New Lighting System - Parking Garage

My Project Consists of (check all that apply):

Total Area of Work (ft²)

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

A. GENERAL INFORMATION 01 Project Location (city)
02 Climate Zone

Report Generated at: 2021-01-28 11:47:33

Project Name: 21017 Karuk Infant/Toddler Center Remodel

L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

nput File Name: 21017 Karuk Infant-Toddler Center W Electric Htr.cibd19x

Project Address: 38010 Highway 96, Orleans 95556

	•						_		
	Project Address:	38010 Highway 96, Orleans 9	5556			Calculation Date/Time:	11:46, Thu, Jan 28, 2021		
	Input File Name:	21017 Karuk Infant-Toddler Co	enter V	/ Electr	ic Htr.cibd19x				
	M. DECLARATION OF F	REQUIRED CERTIFICATES OF	ACCE	PTANC	E				
	compliance. These doc	uments must be provided to	the b	uilding	inspector during construction of	and must be completed t	st be submitted for the features to be recognia through an Acceptance Test Technician Certific cuments/Nonresidential_Documents/NRCA/		
or	Building	g Component	YES	NO		Form/Title	e	Fie Inspe	eld ecto
il								Pass	Fail
	Fo	ivelope	×		NRCA-ENV-02-F - NRFC label verifi	cation for fenestration			Γ
	EII	ivelope			NRCA-ENV-03-F - Daylighting Design	gn PAFs			Γ
			×		NRCA-LTI-02-A - Occupancy Senso	rs and Automatic Time Swi	itch Controls		ī
	Indoo	or Lighting	×		NRCA-LTI-03-A - Automatic Dayligi	ht Controls			
_	muot	or Lighting		\boxtimes	NRCA-LTI-04-A - Demand Respons	ive Lighting Controls			
				\boxtimes	NRCA-LTI-05-A - Institutional Tunir	ng Power Adjustment Facto	or (PAF)		L
$\overline{}$					NRCA-PRC-02-F - Kitchen Exhaust				┖
_				×	NRCA-PRC-03-F - Garage Exhaust				
_	Cover	ed Process		×	NRCA-PRC-12-F – Elevator Lighting	g and Ventilation Controls			ᆫ
				×	NRCA-PRC-13-F –Escalator and Mo	oving Walkways Speed Con	trol		
				\boxtimes	NRCA-PRC-14-F – Lab Exhaust Ven	tilation System			
				\boxtimes	NRCA-PRC-15-F - Fume Hood Auto	omatic Sash Closures System	m		
_									

This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6 and §141.0(b)2 for indoor lighting scopes using the prescriptive

38010 Highway 96, Date Prepared:

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in \$140.6 or

 04
 Total Conditioned Floor Area (ft²)
 1,652

 05
 Total Unconditioned Floor Area (ft²)
 11

 06
 # of Stories (Habitable Above Grade)
 1

 □ Hotel/Motel
 □ School

 □ Healthcare
 ☒ Other (Value)

 02
 03
 04
 05

 lation Method
 Area (ft²)
 Calculation Method
 Area (ft²)

Area (ft²)

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☐ High-Rise Residential ☐ Relocatable

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Report Generated at: 2021-01-28 11:47:33

☐ Other (Write in) See Table I

Registration Provider: Energysoft Report Generated: 2021-01-28 11:50:16

Report Generated at: 2021-01-28 11:47:33

Project Name: 21017 Karuk Infant/Toddler Center Remodel

Project Name:	21017 Karuk Infant/Toddler (enter F	temode	el	NRCC-PRF-01-E	Page 16 of 18				
Project Address:	38010 Highway 96, Orleans 9	5556			Calculation Date/Time:	11:46, Thu, Jan 28, 2021				
Input File Name:	21017 Karuk Infant-Toddler C	enter V	V Electr	ic Htr.cibd19x						
M. DECLARATION C	OF REQUIRED CERTIFICATES OF	ACCE	PTANC	E						
compliance. These o	documents must be provided t	the b	uilding	inspector during construction a	nd must be completed	st be submitted for the features to be recognize through an Acceptance Test Technician Certifica cuments/Nonresidential_Documents/NRCA/				
							Field Inspecto			
Build	ding Component	YES	NO		Form/Titl	e	Pass	Fail		
				A-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH02-A can be ormed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities lap						
		\boxtimes		IRCA-MCH-03-A Constant Volume Single Zone HVAC						
			×	NRCA-MCH-04(a)-H Air Distribution	NRCA-MCH-04(a)-H Air Distribution Duct Leakage - HERS Verification required					
				NRCA-MCH-04(b)-A Air Distribution	n Duct Leakage - ATT only					
			\boxtimes	IRCA-MCH-05-A Air Economizer Controls						
			×	to employ demand controlled vent	NRCA-MCH-06-A Demand Control Ventilation Systems Acceptance must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(c)3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints					
			⋈	NRCA-MCH-07-A Supply Fan Varial	ole Flow Controls					
			×	NRCA-MCH-08-A Valve Leakage Te	st					
	Mechanical		⋈	NRCA-MCH-09-A Supply Water Ter	nperature Reset Controls					
			×	NRCA-MCH-10-A Hydronic System	Variable Flow Controls					
			\boxtimes	NRCA-MCH-11-A Automatic Dema	nd Shed Controls					
			\boxtimes	NRCA-MCH-12-A FDD for Packaged	d Direct Expansion Units					
			\boxtimes	NRCA-MCH-13-A Automatic FDD fo	or Air Handling Units and	Zone Terminal Units Acceptance				
			×	NRCA-MCH-14-A Distributed Energ	gy Storage DX AC Systems	Acceptance				
			×	NRCA-MCH-15-A Thermal Energy S	Storage (TES) System Acce	ptance				
			×	NRCA-MCH-16-A Supply Air Tempe	erature Reset Controls					
			×	NRCA-MCH-17-A Condenser Water	r Temperature Reset Cont	rols				
			×	NRCA-MCH-18 Energy Managemen	nt Control Systems					
				NRCA-MCH-19 Occupancy Sensor Controls				ТΠ		

Illuminance Value (LUX) Room Cavity Ratio (Table G)

NRCC-PRF-01-E Page 12 of 18

Watts of Power
Controlled Adjustment
Lighting Factor

Calculation Date/Time: 11:46, Thu, Jan 28, 2021

Control Credit Calculation

0.000.000.000.0 00.00

0.000.000.000.0 00.00

Control Credit | Test Required

Watts

Allowed LPD Floor Area (ft²) Allowed Watts Pass Fail

Report Generated at: 2021-01-28 11:47:33

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Project Name: 21017 Karuk Infant/Toddler Center Remodel

Input File Name: 21017 Karuk Infant-Toddler Center W Electric Htr.cibd19x

Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for

Location in

Building

Occupancy Type (must meet requirements of Table 140.6-A)

Type/Description of Lighting Control (i.e., partial on occupancy sensor, manual dimming, etc.)

S-6-104 Toddler Classroom, Lecture, Training, - none specified - none specified - none specified - none specified

S-7-106 Nap Classroom, Lecture, Training, - none specified -- none specified -- none specified

Primary Function Area

K4: INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS

Vocational Areas

compliance credit per §140.6(a)2 and Table 140.6-A)

\$130.1(a) = Manual area controls; \$130.0(b) = Multi Level; \$130.1(c) = Auto Shut-Off; \$130.1(d) = Mandatory Daylight; \$130.1(e) = Demand Responsive K5. TAILORED METHOD CONDITIONED LIGHTING POWER ALLOWANCE SUMMARY AND CHECKLIST

-- none specified -

-- none specified -

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-10092020-6384

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-10092020-6384

Project Address: 38010 Highway 96, Orleans 95556

K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

Room - Existing

This Section Does Not Apply

General lighting power (see Table D)

K6. GENERAL LIGHTING POWER This Section Does Not Apply

Room Number

E. ADDITIONAL REMARKS

F. INDOOR LIGHTING FIXTURE SCHEDULE

Tag Description

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

This table includes all permanent designed lighting and all portable lighting in offices.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Additional "use it or lose it" (See Table G)

K7. GENERAL LIGHTING FROM SPECIAL FUNCTION AREA

Project Name:	21017 Karuk Infant/Toddler C	enter R	emode	·I	NRCC-PRF-01-E	Page 17 of 18			
Project Address:	38010 Highway 96, Orleans 9	5556			Calculation Date/Time:	11:46, Thu, Jan 28, 2021			
nput File Name:	21017 Karuk Infant-Toddler C	enter V	/ Electr	ic Htr.cibd19x					
N. DECLARATION (OF REQUIRED CERTIFICATES OF	VERIF	CATIO	N					
ompliance. These	Selections shall be made by Dod documents bust be retained an gy.ca.gov/title24/2019standard	d prov	ded to	the building inspector during c	construction and can be	st be submitted for the features to be recogniz found online at:	ed for		
Dui	lding Component	YES	NO		Form/Tit	•	Field		
		1123	NO		Form/Title				
Bui							Pass	Fail	
Bui			\boxtimes	NRCV-MCH-04-H Duct Leakage Te	st		Pass	Fall	
				NRCV-MCH-04-H Duct Leakage Te NRCV-MCH-24-H Enclosure Air Lea			+		
	Mechanical				akage				
- Dui			⊠	NRCV-MCH-24-H Enclosure Air Le	akage & Mechanical Ventilation				
- Dui				NRCV-MCH-24-H Enclosure Air Le NRCV-MCH-27 Indoor Air Quality NRCV-MCH-32-H Local Mechanica	akage & Mechanical Ventilation Il Exhaust	esidential, hotel/motel application			

Project Name:	21017 Karuk Infant/Toddler Center Remodel	NRCC-PRF-01-E	Page 18 of 18					
Project Address:	38010 Highway 96, Orleans 95556	Calculation Date/Time:	11:46, Thu, Jan 28, 202	1				
Input File Name:	21017 Karuk Infant-Toddler Center W Electric Htr.cibd19x							
00011145115451011	ALITHOPIS DEGLADATION STATEMENT	*		CAREC				
	AUTHOR'S DECLARATION STATEMENT rate of Compliance documentation is accurate and complete.			California Association of Building Groups Committees CERTIFIED ENERGY ANALYST				
Documentation Auth	or Name: Anne McQueeney	Signature: A Mc Quee	nex CEA	Anne McQueeney R16-01-20010 NR16-01-20010				
Company: ABBAY TEC	CHNICAL SERVICES	Signature:						
Address: 1125 16th S	treet	Signature Date: 2021-01-28						
City/State/Zip: Arcata	CA 95521	CEA/ HERS Certification Identification	ation (if applicable):					
Phone: 707.826.1433								
RESPONSIBLE PERS	ON'S DECLARATION STATEMENT							
2. I am eligible under E 3. The energy features of Title 24, Part 1 and I	vided on this Certificate of Compliance is true and correct. iivision 3 of the Business and Professions Code to accept responsibility for the and performance specifications, materials, components, and manufactured de rart 6 of the California Code of Regulations. ieatures or system design features identified on this Certificate of Compliance	evices for the building design or system design	gn identified on this Certificat	e of Compliance conform to the requirements				
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				NRCA-MCH-1	19 Oc	ccupancy Sensor	r Con	trols				
CA Building Energy	Efficiency Standa	ards- 2019 Nonre	esidential Compl	iance	Repo	ort Version: NR0	CC-PF	RF-01-E-1009202	20-6384		Report Generated a	at: 2021-01-28 11:47:33
TATE OF CALIFORNIA												
ndoor Lighting											CALIFO	DRNIA ENERGY COMMISSION
CERTIFICATE OF COMP	LIANCE					1						NRCC-LTI-E
Project Name:			Karuk I	nfant/Toddler Co								(Page 2 of 9)
Project Address:				3801	LO HIE	ghway 96, Date	Prep	ared:				1/28/2021
C. COMPLIANCE RE	SULTS											
If any cell on this tab	le says "DOES I	NOT COMPLY" (or "COMPLIES	with Exception	al Cc	onditions" refe	r to	Table D. for gui	idance.			
		Allowed Light	ing Power per	per <u>§140.6(b)</u> (Watts)			П	Adjusted Lig	hting Power per	§14	10.6(a) (Watts)	Compliance Results
Lighting in conditioned and	01	02	03	04		05	1	06	07		08	09
unconditioned spaces must not be combined for compliance per §140.6(b)1	Complete Building §140.6(c)1	Area Category §140.6(c)2 (See Table I)	Area Category Additional §140.6(c)2G (+) (See Table J)	Tailored <u>§140.6(c)3</u> (+) (See Table K)	=	Total Allowed (Watts)	≥	Total Designed (Watts)	PAF Lighting Control Credits §140.6(a)2 (-) (See Table P)	=	Total Adjusted (Watts) *Includes Adjustments	05 must be >= 08 §140.6
Conditioned	,	1,127.9	0	, ,	=	1,128	≥	905	0	=	905	COMPLIES
Unconditioned		4.4	0		=	4	≥	0	0	=	0	COMPLIES
			-						-	Tab	le H for Details)	COMPLIES
						Rated	Pow		Compliance (See		-	
									- Januari de Ca			
D. EXCEPTIONAL C	ONDITIONS											
D. EXCEPTIONAL C												
This table is auto-fille		able comments	because of sel	ections made o	or da	ita entered in	table	s throughout t	the form.			

Report Version: 2019.1.003

Schema Version: rev 20200601

 1000ffice
 Ceiling Mounted 25W
 No
 No
 25
 Mfr. Spec
 2
 No
 50

101Unisex 4ft Ceiling LED 45W No No 45 Mfr. Spec 1 No

Design Watts

CERTIFICATE OF	COMPLIANCE									NRCC-LTI		
Project Name:		Ka	aruk Infant/Toddl	ler Center Remod	el Report Page:					(Page 3 of		
Project Address:				38010 Highway 9	0 Highway 96, Date Prepared: 1/28							
					'							
F. INDOOR LIG	SHTING FIXTURE SCHEDULE	 E										
102Toddler	4ft Ceiling LED 45W	No	No	45	Mfr. Spec	1	No	45				
103Infant	4ft Ceiling LED 45W	No	No	45	Mfr. Spec	6	No	270				
104Toddler	4ft Ceiling LED 45W	No	No	45	Mfr. Spec	7	No	315				
105Kitchen	4ft Ceiling LED 45W	No	No	45	Mfr. Spec	2	No	90				
106Nap	4ft Ceiling LED 45W	No	No	45	Mfr. Spec	2	No	90				
					Total Designe	d Watts: CONI	DITIONED SPACES	905				
his adjustment Authority Havi	esign Watts for small aperture , the permit applicant should o ng Jurisdiction may ask for Lur	enter full rated	wattage in col	umn 05.	per <u>§140.6(a)4B</u> is o			-				
his adjustment Authority Havi he lamp. G. MODULAR	, the permit applicant should e	enter full rated	wattage in col	umn 05.	per <u>§140.6(a)4B</u> is o			-				
his adjustment Authority Havi The lamp. G. MODULAR This section do	, the permit applicant should eng Jurisdiction may ask for Lur LIGHTING SYSTEMS es not apply to this project.	enter full rated minaire cut she	wattage in colu	umn 05.	per <u>§140.6(a)4B</u> is o			-				
this adjustment Authority Havion the lamp. G. MODULAR This section do	the permit applicant should a ng Jurisdiction may ask for Lur LIGHTING SYSTEMS es not apply to this project. GHTING CONTROLS (Not in	enter full rated minaire cut she	wattage in colu	umn 05. wattage used fo	per <u>§140.6(a)4B</u> is o	130.0(c) Watta	ge used must be the	e maximum rate	d for the lun	ninaire, no		
his adjustment Authority Havi he lamp. G. MODULAR This section do H. INDOOR LIE This table include	, the permit applicant should eng Jurisdiction may ask for Lur LIGHTING SYSTEMS es not apply to this project.	enter full rated minaire cut she cluding PAFs) cluding PAFs)	wattage in colucts to confirm v	umn 05. wattage used fo	per <u>§140.6(a)4B</u> is one compliance per <u>§1</u>	000, the notes	ge used must be the	e maximum rate	ed for the lun	ninaire, no		
his adjustment Authority Havi he lamp. G. MODULAR This section doe H. INDOOR Lift fits table included compliance is a	the permit applicant should a gray Jurisdiction may ask for Luring Jurisdiction may ask for Luring Indiana, and the Lighting Systems are not apply to this project. GHTING CONTROLS (Not in des lighting controls for condit chieved. The lighting controls	enter full rated minaire cut she cluding PAFs) cluding PAFs)	wattage in colucts to confirm v	umn 05. wattage used fo	per <u>§140.6(a)4B</u> is one compliance per <u>§1</u>	000, the notes	ge used must be the	e maximum rate	ed for the lun	ninaire, no		
his adjustment Authority Havi he lamp. G. MODULAR This section doe H. INDOOR Lift fits table included compliance is a	the permit applicant should a gray Jurisdiction may ask for Luring Jurisdiction may ask for Luring Indiana, and the Lighting Systems are not apply to this project. GHTING CONTROLS (Not in des lighting controls for condit chieved. The lighting controls	enter full rated minaire cut she cluding PAFs) cluding PAFs)	wattage in colucts to confirm v	umn 05. wattage used fo	per <u>§140.6(a)4B</u> is one compliance per <u>§1</u>	000, the notes	ge used must be the	e maximum rate	ed for the lun	minaire, no		
his adjustment Authority Havi he lamp. G. MODULAR This section do H. INDOOR Li This table include compliance is a	LIGHTING SYSTEMS es not apply to this project. GHTING CONTROLS (Not in des lighting controls for condit chieved. The lighting controls Controls	enter full rated minaire cut she cluding PAFs) ioned and unco section of the C	wattage in coluets to confirm v	umn 05. wattage used fo	per <u>§140.6(a)4B</u> is one compliance per <u>§1</u> or compliance per <u>§1</u> or trol having a * is shifther first page will shifther the first page will shift pa	own, the notes	ge used must be the	e maximum rate	detail on hok. O Field In	w 3 spector		
his adjustment Authority Havi he lamp. G. MODULAR This section do H. INDOOR LIE This table include	LIGHTING SYSTEMS es not apply to this project. GHTING CONTROLS (Not in des lighting controls Controls 01	cluding PAFs) cioned and unco	wattage in coluets to confirm v	umn 05. wattage used fo	per §140.6(a)4B is or compliance per §1 trol having a * is sh the first page will sh	own, the notes how "DOES NO	ge used must be the section of this table T COMPLY" if the no	e maximum rate	detail on ho	w		

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STATE OF CALIFORNIA

Indoor Lighting

CERTIFICATE OF COMPLIANCE

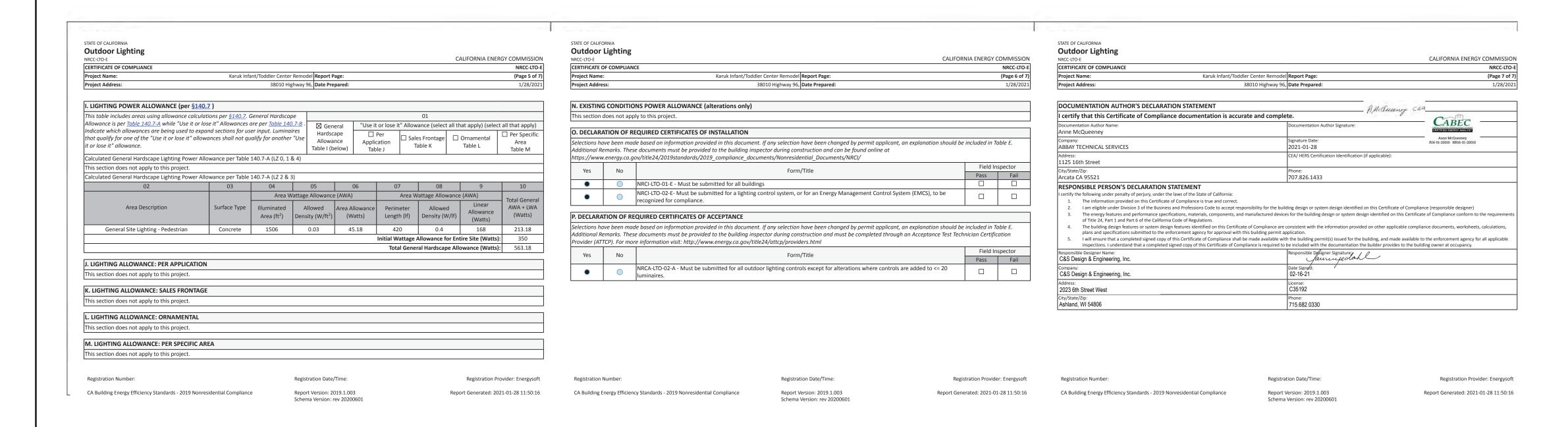
CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-10092020-6384

DOOR LIGHTING CON	TROLS (Not including PAFs)								
a Level Controls									
04	04 05			08	09	10	11	1	2
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary/Sky lit Daylighting §130.1(d)	Secondary Daylighting §140.6(d)	Interlocked Systems §140.6(a)1	Field Inspector	
					3130.1(0)			Pass	Fail
100 Office	Office 250 square feet or less	Manual ON/OFF	Exempt*	Occupancy Sensor	Included	Included	No		
101 Unisex Restroom	Restrooms	Manual ON/OFF	Exempt*	Occupancy Sensor	Exempt*	Exempt*	No		
102 Toddler Toilet	Restrooms	Manual ON/OFF	Exempt*	Occupancy Sensor	Exempt*	Exempt*	No		
103 Infant Room	Classroom, Lecture, or Training Vocational Area	Manual ON/OFF	Dimmer	Occupancy Sensor	Included	Included	No		
104 Toddler Room	Classroom, Lecture, or Training Vocational Area	Manual ON/OFF	Dimmer	Occupancy Sensor	Included	Included	No		
105 Kitchen/Laundry	Kitchen/ Food Preparation Area	Manual ON/OFF	Exempt*	Occupancy Sensor	Exempt*	Exempt*	No		
106 Nap Room	Classroom, Lecture, or Training Vocational Area	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No		
Mechanical Room	Electrical Mechancial Telephone Room	Manual ON/OFF	Exempt*	Occupancy Sensor	N/A	N/A	No		

50						
45						
Registra	ation Provider	: Energysoft	Registration Number:	Registration Date/Time:	Registration Provider: Energysoft	Registration
Report Genera	ited: 2021-01-	28 11:50:16	CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance	Report Version: 2019.1.003 Schema Version: rev 20200601	Report Generated: 2021-01-28 11:50:16	CA Building

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uilding Energy Efficiency Standards - 2019 Nonresidential Compliance	Report Version: 2019.1.003 Schema Version: rev 20200601	Report Generated: 2021-01-28 11:50::

STATE OF CALIFORNIA		STATE OF CALIFORNIA		STATE OF CALIFORNIA			STATE OF CALIFORNIA		
Outdoor Lighting		Outdoor Lighting		Outdoor Lighting			Outdoor Lighting		
NRCC-LTO-E CERTIFICATE OF COMPLIANCE	CALIFORNIA ENERGY COMMISSION NRCC-LTO-E	NRCC-LTO-E CERTIFICATE OF COMPLIANCE	CALIFORNIA ENERGY COMMISSION NRCC-LTO-E	NRCC-LTO-E CERTIFICATE OF COMPLIANCE		CALIFORNIA ENERGY COMMISSION NRCC-LTO-E	NRCC-LTO-E CERTIFICATE OF COMPLIANCE		CALIFORNIA ENERGY CO
			r Center Remodel Report Page: (Page 2 of 7)	<u> </u>	ddler Center Remodel Report Page:	(Page 3 of 7)		dler Center Remodel Report Page:	
	oddler Center Remodel Report Page: (Page 1 of 7) 38010 Highway 96. Date Prepared: 1/28/2021		8010 Highway 96, Date Prepared: 1/28/2021		38010 Highway 96, Date Prepared:	1/28/2021	Project Address:	38010 Highway 96, Date Prepared:	
Project Address:	38010 Highway 96, Date Prepared: 1/28/2021					2,23,2322			
A. GENERAL INFORMATION		C. COMPLIANCE RESULTS		F. OUTDOOR LIGHTING FIXTURE SCHEDULE			H. OUTDOOR LIGHTING CONTROLS		
01 Project Location (city) Orleans 02 Climate Zone 2 03 Outdoor Lighting Zone per Title 24 Part 1 \$10.114 or as designated as a contraction of the contracti	04 Total Illuminated Hardscape Area (ft²) 1506	to Table D. Exceptional Conditions for guidance or see applicable Table refer		For new or altered lighting systems demonstrating compliance with <u>§140</u> . covered by the permit application are included in the Table below. For alte replacement luminaires being installed as part of the project scope are inc	tered lighting systems using the Existing Power method per §141.0	(b)2L only new luminaires being installed and	This table demonstrates compliance with controls requirements for all new existing to remain (ie untouched) and luminaires which are removed and the permit application.		
□ LZ-0: Very Low - Undeveloped Parkland □ LZ-2: Moderate - □ LZ-1: Low - Developed Parkland □ LZ-3: Moderately	Rural Areas	Calculations of Total Allowed Lighting Power (Watts) 01 02 03 04 General 02 6-1 6-1	140.7 or \$141.0(b)2L Compliance Results 05	Designed Wattage:	04 05 06 07	08 09 10	When an option having a * is selected, the notes section of this table mus "DOES NOT COMPLY" if the notes are left blank.	be completed. The lighting controls section of the	Compliance Summary Table on the first page wi
B. PROJECT SCOPE		Per Sales Hardscape Ha	+ Per Specific Area S140.7(d)2 OR S140.7(d)2 S141.0(b)2 S141.0(Name or Item Complete Luminaire Description Watts per	er How is Wattage determined How is Uninaire Status Excluded per Status	Design Watts Cutoff Req. > 6,200 initial Impector Impector	Mandatory Controls 01 02	03	04 05
This table includes outdoor lighting systems that are within the scope of <pre>\$141.0(b)2L</pre> for alterations. My Project Consists of:	the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 or	S140.7(DI) (See Table I) (See Table K) (See Table K) 563.18 + + +	(See Table M)	Tag luminaire¹ Outdoor Ceiling Mounted 25W □ Linear 25	determined luminaires 2 Status 3 §140.7(a) Mfr. Spec 10 New	\$130.2(b) 4 Pass Fail NA: < 6200	Area Description Shut-Off §130.2(c)1	Auto-Schedule §130.2(c)2	Motion Sensor Field Insp §130.2(c)3 Pass
01	02	•	See Table G for Details) N/A	Outdoor Cennig Wounted 25W 🖂 Enreal 25	IVIII. Spec 10 IVEW	lumens	Outdoor Lighting Photocontrol	Yes	Yes
☐ New Lighting System Mi	ust Comply with Allowances from §140.7	Controls Compliance	See Table H for Details) COMPLIES	Outdoor. Wall Pack 30W 🔲 Linear 30	Mfr. Spec 2 New 🗆	60 NA: < 6200	* NOTES: Controls with a * require a note in the space below explaining how comp	liance is achieved.	
☐ Altered Lighting System Is	your alteration increasing the connected lighting load (Watts)? Yes No	D. EXCEPTIONAL CONDITIONS			Total Design Watts:		EX: Not permitted by health & safety to be turned off; EXCEPTION 1 to §130.2(c)		
03 % of Existing Luminaires Being Altered ¹ S	04 05 Sum Total of Luminaires Being Added or Altered Calculation Method	This table is auto-filled with uneditable comments because of selections ma	le or data entered in tables throughout the form.	* NOTES: Selections with a * require a note in the space below explaining how con EX: Luminaire is lighting a statue; EXCEPTION 2 to §130.2(b)					
□ < 10% □ >= 10% and < 50% □ >= 50%	Calcalation method	E. ADDITIONAL REMARKS		¹ FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to co.	confirm wattage used for compliance per \$130.0(c)				
Please proceed to Table F. Outdoor Lighting Fixture Schedule to define	the project's luminaires.			² For linear luminaires, wattage should be indicated as W/lf instead of Watts/lumin		er of luminaires.			
-	minaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.	This table includes remarks made by the permit applicant to the Authority F Electrical	aving Jurisaiction.	³ Select "New" for new luminaires in a new outdoor lighting project, or for added le for existing luminaires within the project scope that are not being altered and are a the project scope. ⁴ Compliance with mandatory cutoff requirements is required for luminaires with in	e remaining. Select "Existing Reinstalled" for existing luminaires which are i				
				G. CUTOFF REQUIREMENTS (BUG)					
				This section does not apply to this project.					
Registration Number:	Registration Date/Time: Registration Provider: Energysoft	Registration Number:	Registration Date/Time: Registration Provider: Energysoft	Registration Number:	Registration Date/Time:	Registration Provider: Energysoft	Registration Number:	Registration Date/Time:	Registration Provider
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				A		N			





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