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GENERAL REQUIREMENTS

1. THE CONTRACTOR SHALL VISIT THE JOB SITE AND VERIFY ALL DIMENSIONS, ELEVATIONS AND CONDITIONS. IMMEDIATELY NOTIFY THE GOVERNMENT OF ANY DISCREPANCIES BETWEEN THE DRAWINGS, THE SPECIFICATIONS, AND THE PROJECT SITE CONDITIONS.
2. IN THE EVENT THAT THESE CONSTRUCTION DRAWINGS CONTAIN CONFLICTING INFORMATION IN SEPARATE LOCATIONS (INCLUDING SPECIFICATION), THE CONTRACTOR SHALL OBTAIN WRITTEN CLARIFICATION FROM THE GOVERNMENT PRIOR TO PROCEEDING WITH WORK IN QUESTION.
3. THE CONTRACTOR SHALL NOT PROCEED WITH CHANGES WITHOUT THE APPROVAL OF THE GOVERNMENT. NO DEVIATION FROM CONTRACT DRAWINGS AND SPECIFICATIONS SHALL BE MADE WITHOUT WRITTEN APPROVAL FROM THE GOVERNMENT.
4. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR JOB CONDITIONS ON THE JOB SITE INCLUDING SAFETY OF PUBLICWORKERS, PROPERTY, AND COMPLIANCE WITH GOVERNMENT SAFETY REQUIREMENTS.
5. ALL WORK PERFORMED SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST ADOPTED EDITION OF THE CALIFORNIA BUILDING CODE AND ALL APPLICABLE CODES REQUIRED BY THE GOVERNMENT.
6. THE CONTRACTOR SHALL PROTECT THE EXISTING CONDITION OF ADJACENT SPACES FROM DAMAGES BY NEW WORK. PUBLIC ACCESS, EXITS, AND FIRE LANES TO ADJACENT AREAS MUST BE MAINTAINED AT ALL TIMES.
7. THE CONTRACTOR IS RESPONSIBLE FOR THE DAMAGE RESULTING FROM THE WORK THAT AFFECTS THE ENVIRONMENT AROUND THE CONSTRUCTION AREA. THE CONTRACTOR SHALL REPAIR ALL DAMAGES TO THE ORIGINAL CONDITIONS AT NO COST TO THE GOVERNMENT. THIS COST SHALL BE FOR PAID BY THE CONTRACTOR.
8. THE CONTRACTOR IS TO VERIFY THE PRESENCE OF ANY HAZARDOUS MATERIALS IN THE PROJECT AREA. ALL WORK IS TO BE DONE IN ACCORDANCE WITH FEDERAL AND STATE GOVERNMENT BUILDING CODE GUIDELINES AND REQUIREMENTS.
9. AFTER COMPLETION OF THE PROJECT THE CONTRACTOR SHALL CLEAN THE JOB SITE BEFORE ACCEPTANCE BY THE GOVERNMENT.
10. THIS SHEET IS ONE OF A SET OF DOCUMENTS WHICH INCLUDES, BUT IS NOT LIMITED TO, DRAWINGS, SPECIFICATIONS, APPENDICES & ADDENDA ADDRESSING ALL TRADES. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE SCOPE OF WORK AND FOR FURNISHING ALL SUBCONTRACTORS WITH A FULL SET OF CONSTRUCTION DOCUMENTS.
11. THE PURPOSE OF ALL GRAPHICALLY REPRESENTED DETAILS IN THESE DRAWINGS IS TO ACHIEVE A FINISHED PRODUCT WHICH CONFORMS TO APPLICABLE CODES, IS SAFE, DURABLE, WATER TIGHT, HYGIENIC AND WILL SERVE THE PURPOSE TO WHICH IT WAS INTENDED. THEREFORE MINOR ALTERATIONS AND THE APPLICATION OF ADDITIONAL GLUE, NAILS, SCREWS, WASHERS, CAULKING, CUTTING/RIPPING, CLEARANCES AND SHIMS MAY BE NECESSARY, AND SHALL BE PROVIDED BY THE CONTRACTOR AT NO EXTRA COST TO THE GOVERNMENT. IN ORDER TO ACHIEVE A COMPLETE ASSEMBLY IN KEEPING WITH THE HIGHEST QUALITY STANDARDS OF THE SPECIFIC TRADE.
12. WHERE INSTALLATION OF WORK IS REQUIRED IN ACCORDANCE WITH THE PRODUCT MANUFACTURER'S DIRECTIONS, THE CONTRACTOR SHALL PROCURE AND DISTRIBUTE NECESSARY COPIES OF SUCH DIRECTIONS TO INSTALLERS.
13. NO CONSTRUCTION OPERATIONS SHALL BE CARRIED ON IN A MANNER THAT WILL BE DETRIMENTAL OR INJURIOUS TO ADJACENT PROPERTY, WORKERS, THE PUBLIC, PEDESTRIANS OR VEHICLES USING THE STREETS OR SIDEWALK IN THE VICINITY OF OPERATION. CONTRACTOR SHALL NOT IMPACT BUILDING OPERATIONS.
14. NO PORTION OF WORK REQUIRED TO BE INSPECTED BY THE GOVERNMENT SHALL BE COVERED OR CONCEALED UNTIL APPROVAL IS GIVEN IN WRITING BY THE GOVERNMENT. NOTIFY THE GOVERNMENT AND/OR BUILDING DEPARTMENT IN ADVANCE OF ANY REQUIRED INSPECTIONS.
15. ALL INFORMATION SHOWN ON THE DRAWING RELATIVE TO EXISTING CONDITION IS GIVEN AS THE BEST PRESENT KNOWLEDGE BUT WITHOUT GUARANTEE OF ACCURACY, WHERE ACTUAL CONDITION CONFLICT WITH THE DRAWINGS, THEY SHALL BE REPORTED TO THE GOVERNMENT SO THAT THE PROPER REVISIONS CAN BE MADE. MODIFICATIONS OF DETAILS OF CONSTRUCTION SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE CONTRACTING OFFICER AND CONTRACTING OFFICER REPRESENTATIVE.
16. CONTRACTOR'S METHODS AND MEANS OF CONSTRUCTION SHALL NOT IN ANY WAY:
 - A. VIOLATE ANY APPLICABLE BUILDING CODES, REGULATIONS, ETC.
 - B. VOID OR REDUCE ANY WARRANTIES, GUARANTEES, BONDS, ETC.
 - C. JEOPARDIZE OR IMPAIR ANY STRUCTURAL SYSTEMS, FIRE/LIFE SAFETY SYSTEMS, AND WEATHER AND WATERPROOFING SYSTEMS.
17. PERFORM CUTTING IN SUCH A MANNER AS TO PREVENT DAMAGE TO ADJACENT SURFACES OR NEW WORK. FINISH CUT OR PATCHED SURFACES TO MATCH ADJACENT FINISHES. REPLACE MATERIALS WHICH ARE DAMAGED AND CANNOT BE NEATLY REPAIRED AS A RESULT OF CUTTING AND PATCHING.
18. EXAMINATION OF THE SITE, THE PROJECT BUILDING, AND PORTIONS THEREOF WHICH WILL AFFECT HISHER WORK SHALL BE MADE BY THE GENERAL CONTRACTOR WHO SHALL COMPARE IT WITH THE DRAWINGS AND SATISFY HIMSELF/HERSELF AS TO CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED. HE/SHE SHALL, AT SUCH TIME, ASCERTAIN AND CHECK LOCATION OF EXISTING STRUCTURES, UTILITIES, SERVICES, OR EQUIPMENT WHICH MAY AFFECT HISHER WORK. ANY CONFLICTS OR OMISSIONS, ETC. SHALL BE REPORTED TO THE GOVERNMENT CONTRACTING OFFICER PRIOR TO PROCEEDING WITH WORK IN QUESTION.
19. PROVIDE LOCK OUT AND TAG OUT PROTOCOL FOR ALL ELECTRICAL WORK DURING CONSTRUCTION ON THIS PROJECT. DO NOT WORK ON ENERGIZED CONDUCTORS UNLESS ABSOLUTE NECESSARY BUT MUST SUBMIT A HIGH ENERGY CONTROL PLAN FOR FOR APPROVAL FROM THE GOVT.
20. THE CONTRACTOR SHALL NOTIFY THE GOVERNMENT IMMEDIATELY OF ANY UTILITIES AND SERVICES FOUND IN CONSTRUCTION TO BE REMOVED. CUT BACK CAP AND DISCONNECT ALL SERVICES WHICH ARE NOT TO BE REUSED.
21. PROTECT AREA FROM DAMAGE WHICH MAY OCCUR FROM DEMOLITION, DUST, WATER, ADVERSE WEATHER, ETC. PROVIDE & MAINTAIN TEMPORARY BARRICADES, CLOSURE WALLS, ETC. AS REQUIRED TO PROTECT THE PUBLIC & ADJACENT (E) STRUCTURES DURING THE PERIOD OF CONSTRUCTION. DAMAGE TO EXISTING STRUCTURES & EQUIPMENT SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE GOVERNMENT, AT THE EXPENSE OF THE GENERAL CONTRACTOR.
22. DEMOLITION PLAN (SHOWING EXISTING CONDITIONS) IS SUPPLIED FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR SHALL USE IT AS A GUIDE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH THE SITE & ALL EXISTING CONDITIONS BEFORE COMMENCING WITH THE WORK. ANY UNUSUAL OR SUBSTANTIAL WORK THAT IS NOT COVERED IN THE DRAWINGS NOR COVERED IN THE NOTES OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE GOVERNMENT.
23. VERIFY WITH THE GOVERNMENT IF ANY MATERIAL, FURNISHINGS, EQUIPMENT, ETC. ARE TO BE SALVAGED & STORED PRIOR TO THE START OF DEMOLITION.
24. CONTRACTOR SHALL COMPLY WITH CONSTRUCTION NOISE CONTROL MEASURES AND DEMOLITION OPERATION HOURS ESTABLISHED BY THE GOVERNMENT.
25. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION & REMOVAL OF ALL DEBRIS/MATERIALS OFF SITE.

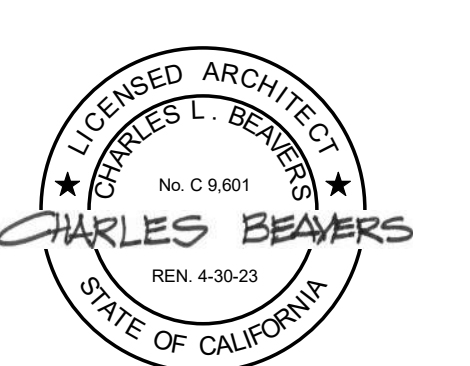
26. NO GUARANTEE IS INTENDED THAT UNDERGROUND OBSTRUCTIONS, NOT SHOWN ON THE PLANS, MAY NOT BE ENCOUNTERED. NO UNDERGROUND UTILITIES ARE SHOWN ON THESE PLANS. THE CONTRACTOR IS CAUTIONED THAT THE PLANS DO NOT INCLUDE ALL EXISTING UTILITIES AND THAT THE OWNER AND DESIGN PROFESSIONAL ASSUME NO RESPONSIBILITY OF OBSTRUCTIONS, WHICH MAY BE ENCOUNTERED.
27. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES IN THE AREA AREA OF WORK PRIOR TO CONSTRUCTION.
28. CONTRACTOR SHALL EXPOSE ALL EXISTING UTILITIES INCLUDING SEWERS AND STORM DRAINS PRIOR TO ANY TRENCHING TO ALLOW THE ENGINEER TO VERIFY THE GRADE AND ALIGNMENT OF THE UTILITIES, AND TO VERIFY DESIGN ASSUMPTIONS AND EXACT FIELD LOCATION. EXISTING UTILITIES MAY REQUIRE RELOCATION AND/OR PROPOSED IMPROVEMENTS MAY REQUIRE GRADE OR ALIGNMENT REVISION DUE TO FIELD CONDITIONS. THE ENGINEER WILL NOT MARK ANY GRADE STAKES UNTIL AFTER THE EXACT LOCATION OF ALL EXISTING UTILITIES HAVE BEEN VERIFIED.
29. CALL BEFORE YOU DIG. THE CONTRACTOR IS HEREBY NOTIFIED THAT PRIOR TO COMMENCING CONSTRUCTION, HE IS RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES FOR VERIFICATION AT THE CONSTRUCTION SITE OF THE LOCATIONS OF ALL UNDERGROUND FACILITIES WHERE SUCH FACILITIES MAY POSSIBLE CONFLICT WITH THE PLACEMENT OF THE IMPROVEMENTS SHOWN ON THESE PLANS. CALL "UNDERGROUND SERVICE ALERT" AT 800-227-2600 TWO (2) DAYS MINIMUM TO FOURTEEN (14) DAYS MAXIMUM BEFORE ANY EXCAVATION IS STARTED.
30. THE CONTRACTOR SHALL RECOGNIZE THAT UNDERGROUND FACILITIES NOT SHOWN AS CIVIL IMPROVEMENTS (ELECTRICAL, TELEPHONE, TV, IRRIGATION, ETC.) SHALL BE COORDINATED AND CONSTRUCTED PRIOR TO PLACEMENT OF BASE ROCK AND PAVING.
31. THE CONTRACTOR SHALL SECURE A PERMIT FROM THE CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS, DIVISION OF OCCUPATIONAL SAFETY AND HEALTH FOR THE CONSTRUCTION OF A TRENCH OR EXCAVATION WHICH IS FIVE FEET OR DEEPER AND INTO WHICH A PERSON IS REQUIRED TO DESCEND ALL UNDERGROUND IMPROVEMENTS INCLUDING SEWER LINES, WATER LINES, STORM DRAIN, ELECTRICAL LINES, GAS LINES, PUBLIC UTILITY FACILITIES, AND SERVICES SHALL BE INSTALLED, TESTED, AND APPROVED PRIOR TO PAVING.
32. DISTANCE AND INVERT GRADES OF UTILITY LINES SHOWN ARE TO THE CENTER LINE OF INLETS, CATCH BASINS, AND MANHOLES. DISTANCES ARE HORIZONTAL, ADING CONFORMING TO SECTION 26 OF THE STANDARD SPECIFICATIONS.

CONCRETE NOTES

1. ALL WORK TO CONFORM TO THE REQUIREMENTS OF THE FOLLOWING PUBLICATIONS:
 - ACI "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318-LATEST EDITION) AND "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" (ACI 315-LATEST EDITION).
 2. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS: 4000 PSI (NORMAL WEIGHT)
 3. MAXIMUM SLUMP: 5" (3" AT SLOPING SURFACES; REFER TO SPECIFICATIONS FOR SLUMP LIMITS).
 4. WATER/CEMENT RATIO: 0.40
 5. PRIOR TO PLACING CONCRETE, MIX DESIGNS SHALL BE SUBMITTED FOR REVIEW.
 6. CONCRETE MIXTURE COMPONENTS SHALL CONFORM TO THE FOLLOWING:
 - CEMENT - ASTM C 150 - TYPE V
 - COURSE AGGREGATE - ASTM C 33 (NORMAL WEIGHT)
 - FINE AGGREGATE - ASTM C 33
 - WATER - SHALL BE POTABLE WATER
 - ADMIXTURES:
 - ASTM C 260 AIR ENTRAINMENT
 - ASTM C 818 POZZOLAN & FLY ASH
 - ASTM C 494 WATER REDUCING, RETARDING, ACCELERATION
 7. ALL BAR REINFORCING FOR CONCRETE SHALL CONFORM TO ASTM A 615 GRADE 60 (DEFORMED)
 8. UNLESS OTHERWISE SHOWN, LOCATE REINFORCING BARS WITH FOLLOWING CLEAR DIMENSION TO FACE OF CONCRETE:
 - CONCRETE ON GROUND: 3" CLEAR.
 - EXTERIOR EXPOSED SURFACES OR SURFACES AGAINST EARTH:
 - 2" CLEAR FOR #6 AND GREATER
 - 1-1/2" CLEAR FOR #5 AND SMALLER
 - SLABS ON GRADE: 1" CLEAR FROM TOP OF SLAB
 9. CONCRETE ACCESSORIES MUST BE ADEQUATE TO MAINTAIN REINFORCING ACCURATELY IN PLACE AND BE NON-CORROSIVE, NON-STAINING TYPE.
 10. LAP ALL BAR REINFORCING IN CONCRETE ELEMENTS 48 BAR DIAMETERS
 11. REFERENCE SPECIFICATIONS FOR CONCRETE CURING AND PROTECTION. BEGIN CONCRETE CURING AS SOON AS FINISHING OPERATIONS ARE COMPLETE.
 12. LIQUID MEMBRANE FORMING CURING COMPOUNDS SHALL COMPLY WITH ASTM C 309, TYPE I, CLASS A.
- PARKING LOT NOTES**
1. ALL ASPHALT CONCRETE SURFACES SHALL BE SAW CUT TO A NEAT, STRAIGHT LINE AND REMOVED. THE EXPOSED EDGE SHALL BE SEALED WITH EMULSION PRIOR TO PAVING. ANY EXISTING LOOSE FILL, UNSUITABLE SOIL, SILTY SAND DEPOSITS, OR DISTURBED SOILS SHALL BE EXCAVATED AND PROPERLY DISPOSED OF TO THE SATISFACTION OF THE GOVERNMENT.
 2. ASPHALT CONCRETE SHALL BE TYPE A, 1/2" MAXIMUM MEDIUM GRADING AND CONFORM TO SECTION 39 OF THE STANDARD SPECIFICATIONS. THE GRADE OF THE ASPHALT BINDER TO BE MIXED WITH AGGREGATE SHALL BE GRADE PG 64-16 CONFORMING TO THE PROVISIONS IN SECTION 92 OF THE STANDARD SPECIFICATIONS.
 3. THE AGGREGATE BASE SHALL BE CLASS 2, 3/4" MAXIMUM GRADING CONFORMING TO SECTION 26 OF THE STANDARD SPECIFICATIONS.
 4. THE SUBGRADE AND AGGREGATE BASE SHALL BE COMPACTED TO A RELATIVE COMPACTION OF AT LEAST 95%.
- GRADING NOTES**
1. ALL EARTHWORK AND SITE GRADING SHALL BE DONE IN ACCORDANCE WITH COUNTY OF HUMBOLT STANDARDS, AND SHALL BE IN COMPLIANCE WITH CHAPTER 33, 18, AND APPENDIX 33, MOST RECENT EDITION OF THE CALIFORNIA BUILDING CODE.
 2. THE SITE IS GRADED TO BEST FIT WITH THE SURROUNDING CONDITIONS AND PLANNED DEVELOPMENT. THE CONTRACTOR SHALL PERFORM EARTHWORK CALCULATIONS AS DEEMED NECESSARY, WHICH ACCOUNT FOR PROPOSED METHODS OF GRADING AND TRENCHING. THE AMOUNT OF EARTH MOVED IS VARIABLE DEPENDENT ON, AMONG OTHER THINGS, THE CONTRACTOR'S METHODS OF OPERATION, COMPACTION, CONSOLIDATION, STRIPPING, AND UTILITY TRENCHING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY IMPORT OR EXPORT OF MATERIAL NEEDED TO ACHIEVE THE PLAN GRADES.
 3. ANY EXCESS OR UNSUITABLE MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE REMOVED FROM THE SITE TO AN APPROVED AREA UNLESS OTHERWISE NOTED ON THE PLANS.
 4. CONTRACTOR SHALL PROTECT EXISTING DRAINAGE FACILITIES FROM SEDIMENTATION DURING ALL PHASES OF CONSTRUCTION.
 5. THE COORDINATION FOR SOIL COMPACTION TESTING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
 6. NEW ADA PARKING STALL AND PATH OF TRAVEL TO THE NEW HOISTWAY ARE REQUIRED TO HAVE 2% MAXIMUM SLOPE ANY DIRECTION. VERIFY 2% GRADE MAXIMUM DIRECTION ON SITE PRIOR TO PLACING CONCRETE. NOTIFY THE GOVERNMENT IF CONDITIONS VARY.

REVISION SCHEDULE

NO.	DESCRIPTION	DATE



CONSULTANT:

BrokawDesign
P.O. BOX 3103
ROHNERT PARK, CA 94927
WWW.BROKAWDESIGN.COM

PROJECT:
**CLARK COMPLEX
ACCESSIBILITY
MODIFICATIONS**

3015 H STREET
EUREKA, CA 95501

SHEET NAME:
**GENERAL
REQUIREMENTS
& NOTES**

ISSUE DATE:	8/1/2022
PREPARATION AND REVIEW	
DRAWN BY:	Author
DESIGNER:	Designer
PROJ MGR:	
PEER REVIEW:	Checker
SHEET NUMBER:	

A002

PROJECT STATUS: FINAL DESIGN

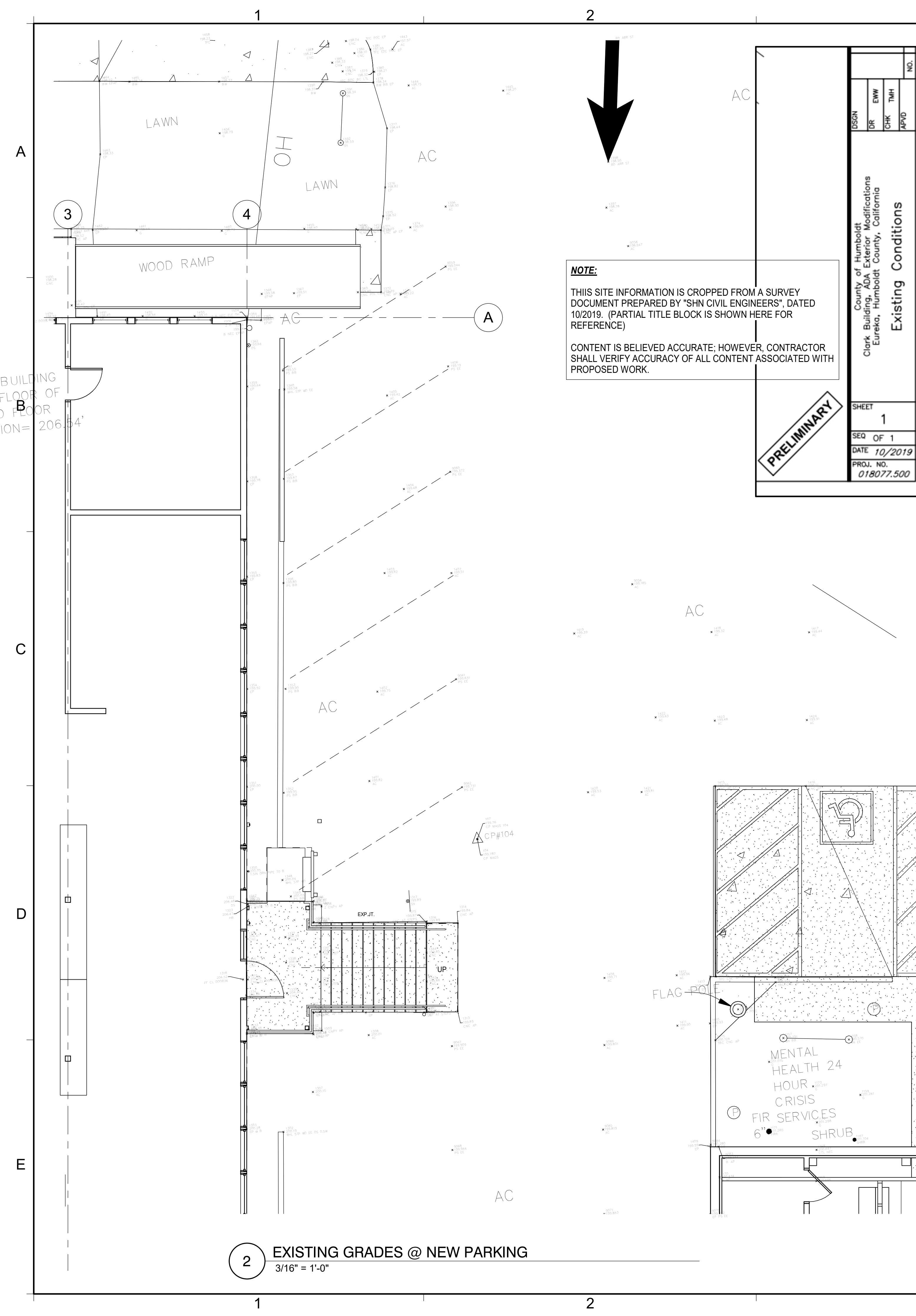
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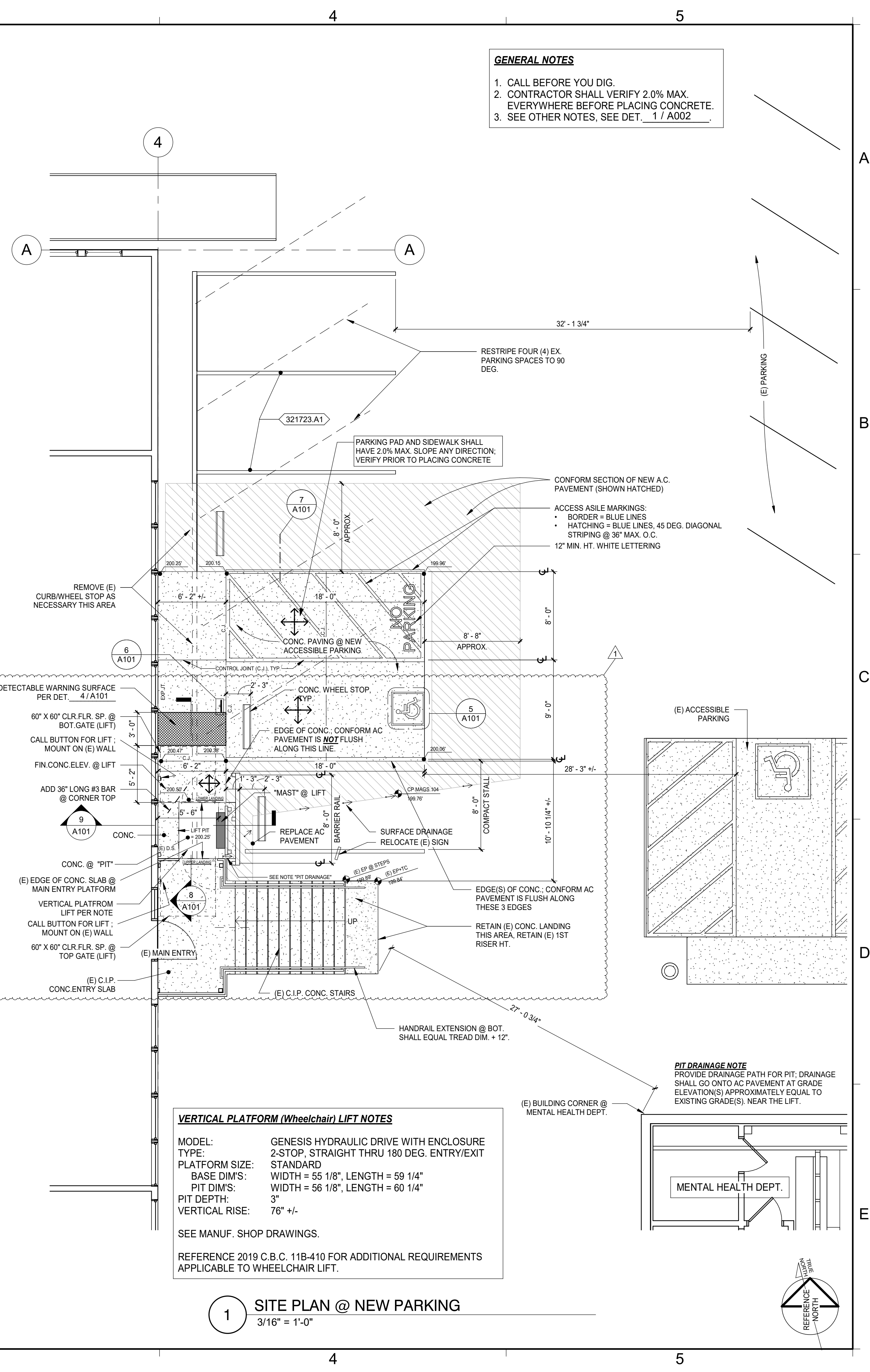
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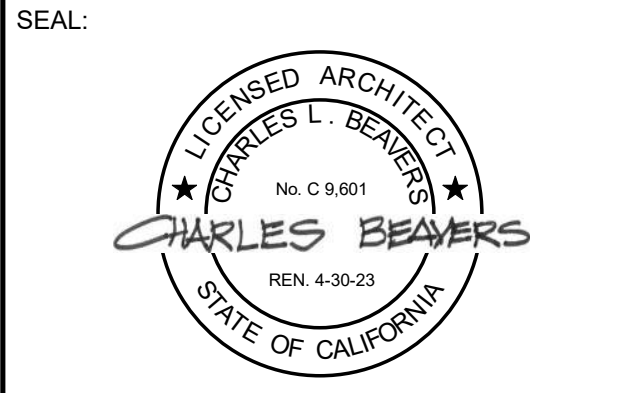


2 EXISTING GRADES @ NEW PARKING
3/16" = 1'-0"



1 SITE PLAN @ NEW PARKING
3/16" = 1'-0"

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE
1	PLAN CHECK COMMENTS	10/5/22



CONSULTANT:

BrokawDesign
P.O. BOX 3103
ROHNERT PARK, CA 94927
WWW.BROKAWDESIGN.COM

PROJECT:
CLARK COMPLEX ACCESSIBILITY MODIFICATIONS

3015 H STREET
EUREKA, CA 95501

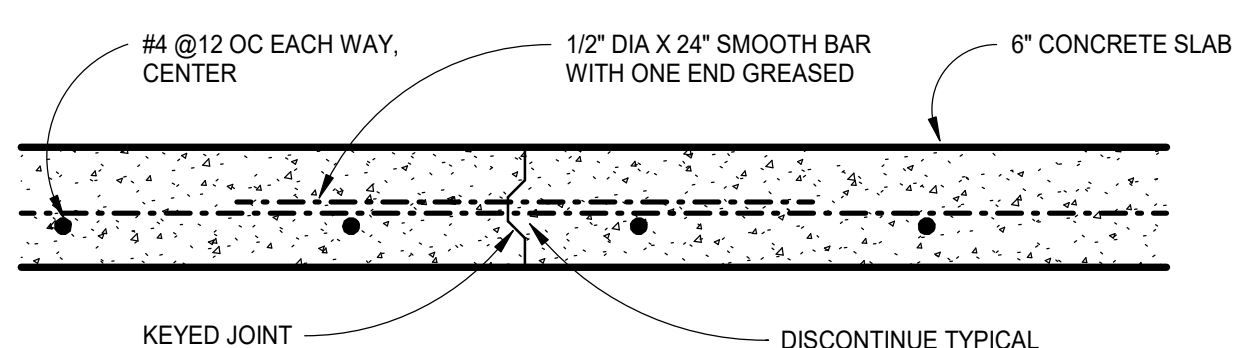
SHEET NAME:
SITE PLANS

ISSUE DATE: 8/1/2022
PREPARATION AND REVIEW
DRAWN BY: mck
DESIGNER: mck
PROJ MGR: CLB
PEER REVIEW: --
SHEET NUMBER:

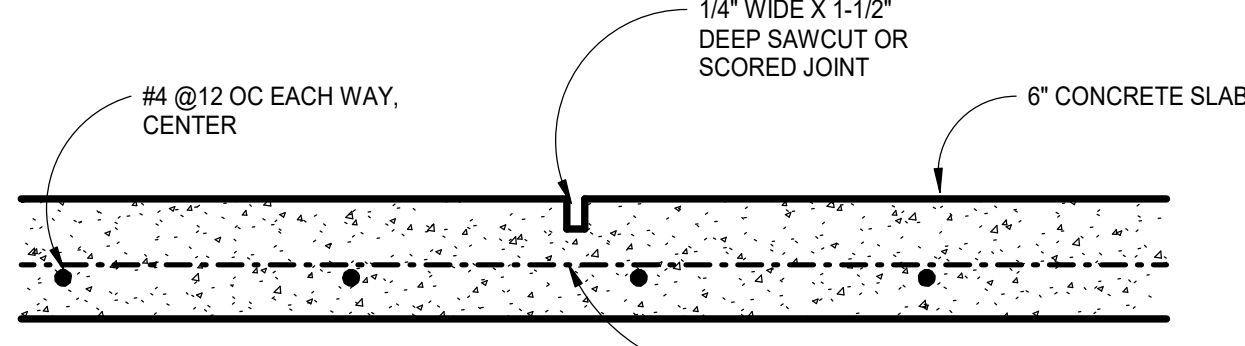
PROJECT STATUS: FINAL DESIGN

A100

ARCHITECTURAL DETAIL "(E) RAINLEADER" REMOVED; NO LONGER APPLICABLE TO PROJECT.

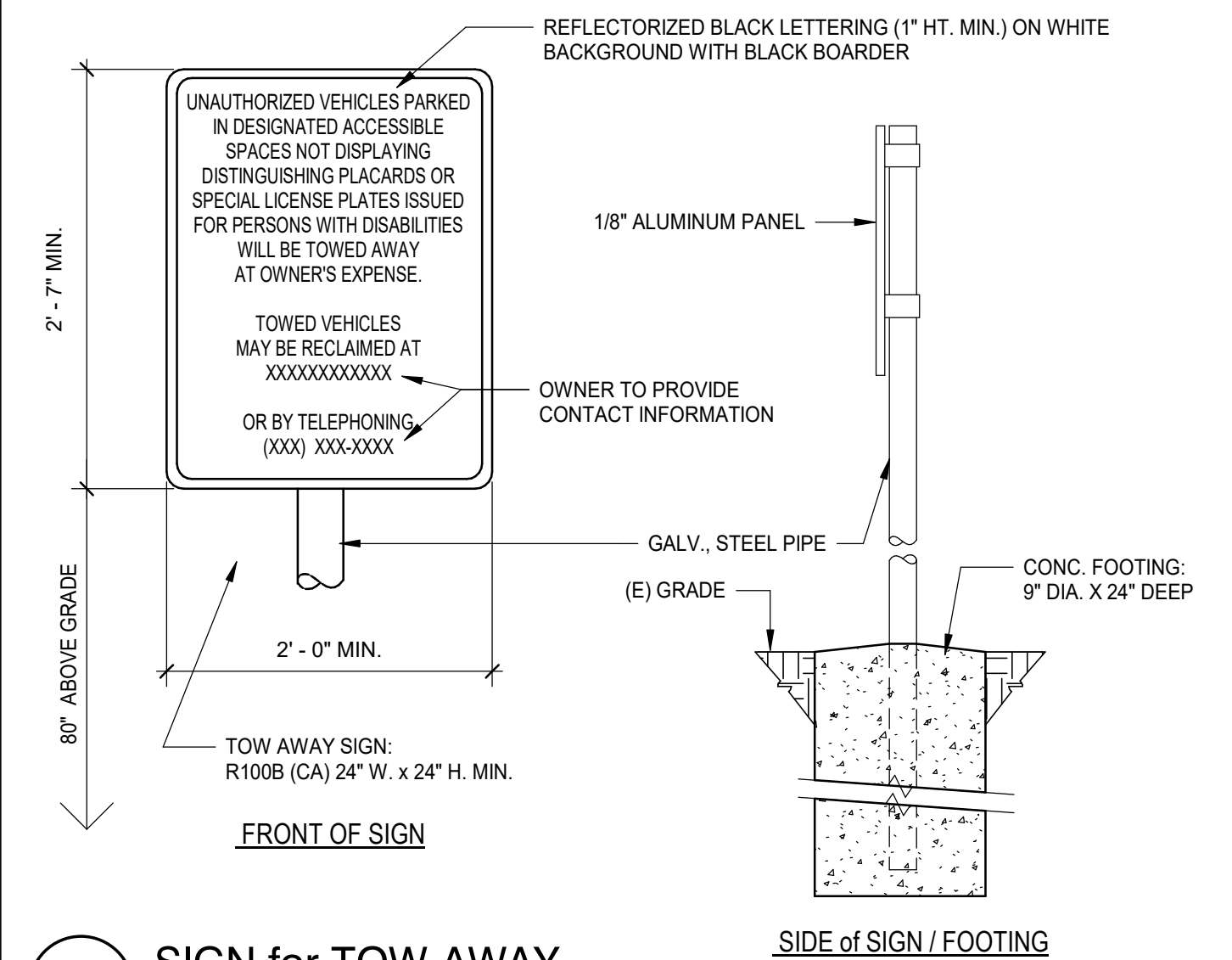


OPTION A

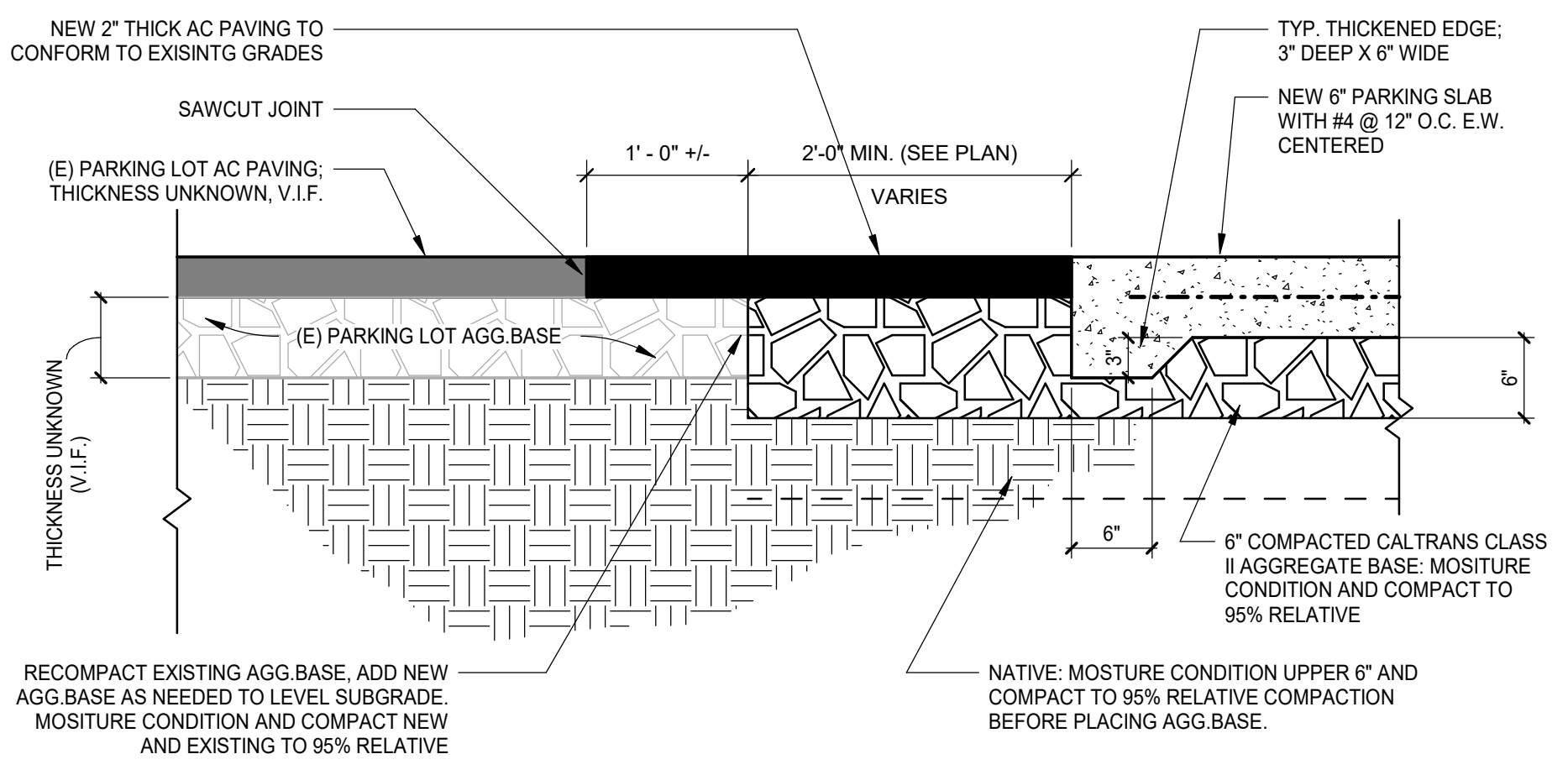


OPTION B

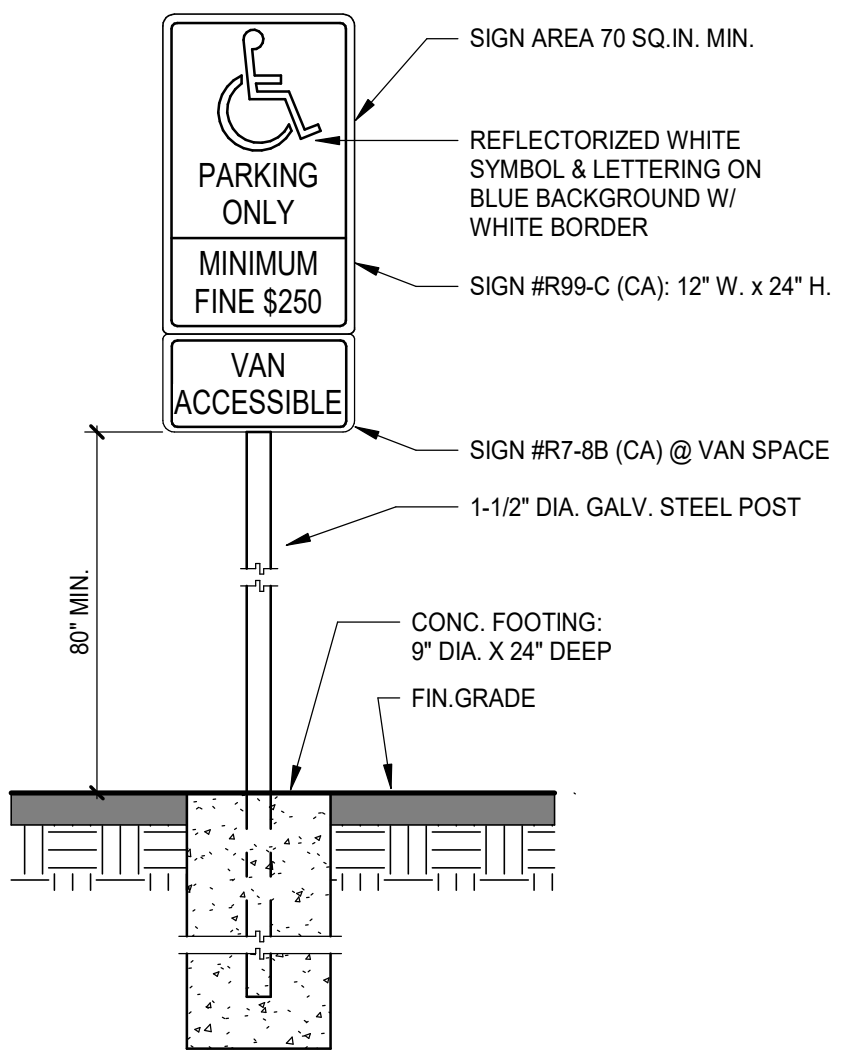
2 CONTROL JOINTS
1 1/2" = 1'-0"



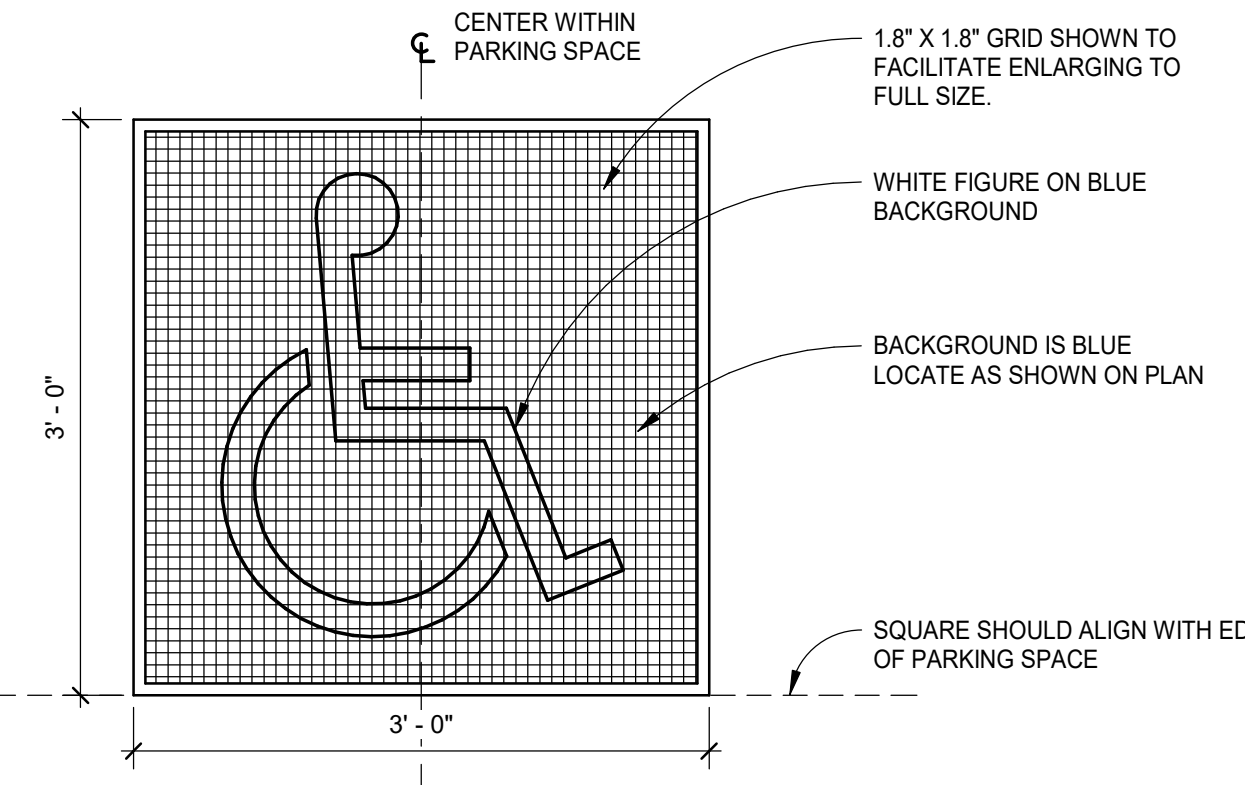
1 SIGN for TOW-AWAY
1" = 1'-0"



7 CONCRETE PAVING EDGE
1" = 1'-0"

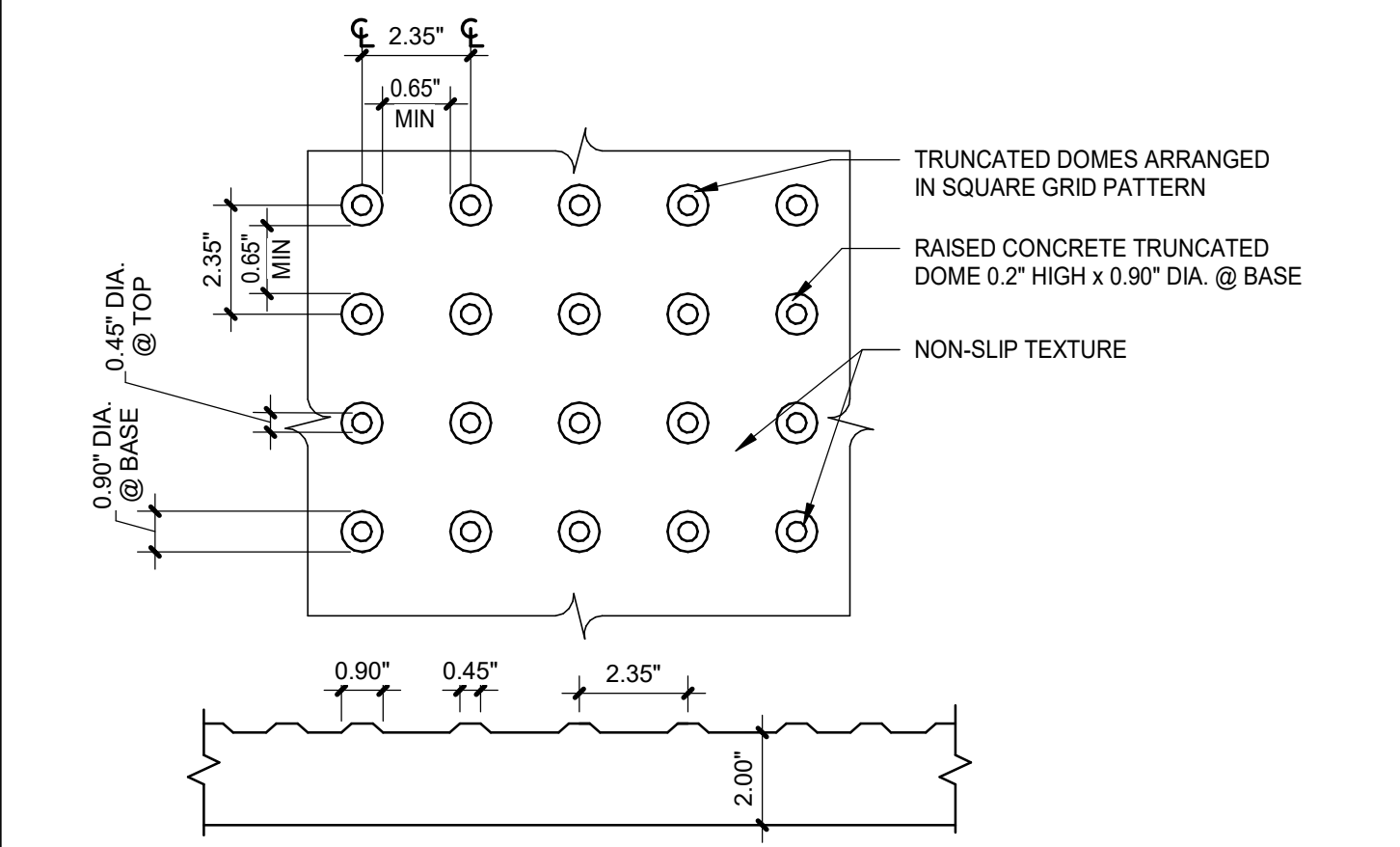


6 SIGN at ACCESSIBLE PARKING
1" = 1'-0"



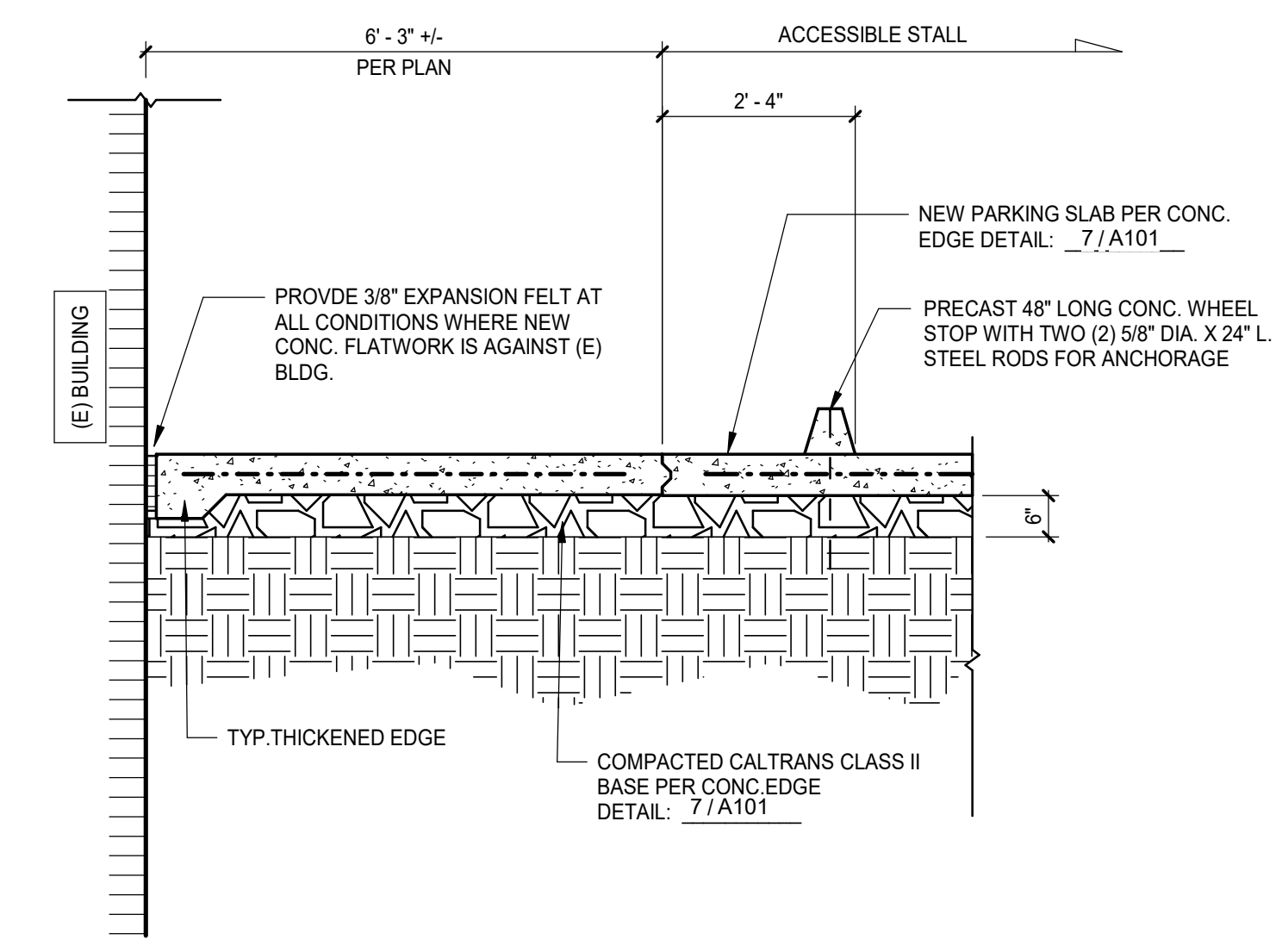
NOTE: LOCATE EMBLEM IN STALL SO THAT IT IS CLEARLY VISIBLE BY A TRAFFIC ENFORCEMENT OFFICER WHEN A VEHICLE IS PROPERLY PARKED IN THE STALL SPACE (RECOMMENDATED LOCATION: CENTERED AT STALL ENTRANCE)

5 ISA SIGN ON PAVEMENT
1" = 1'-0"

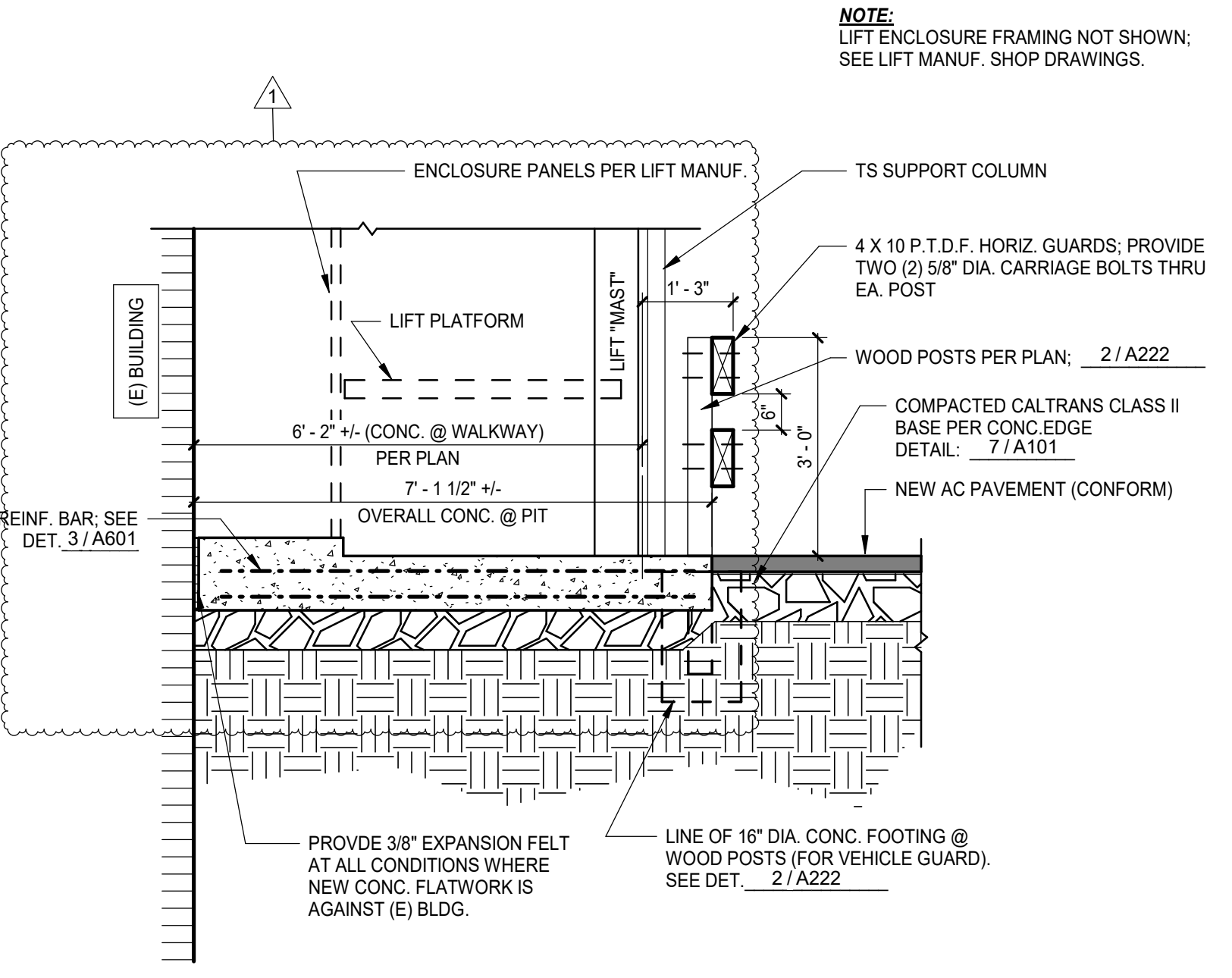


NOTES:
1. PROVIDE ARMOR-TILE VITRIFIED POLYMER COMPOSITE MODULAR DETECTABLE WARNING PAVERS BY ENGINEERED PLASTICS, OR APPROVED EQUAL: INTEGRAL COLOR TO BE FEDERAL YELLOW#33538. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS AND DETAILS.
2. CONTRACTOR SHALL SELECT PAVER MODULE TO BEST FIT THE AREA SHOWN ON PLANS.

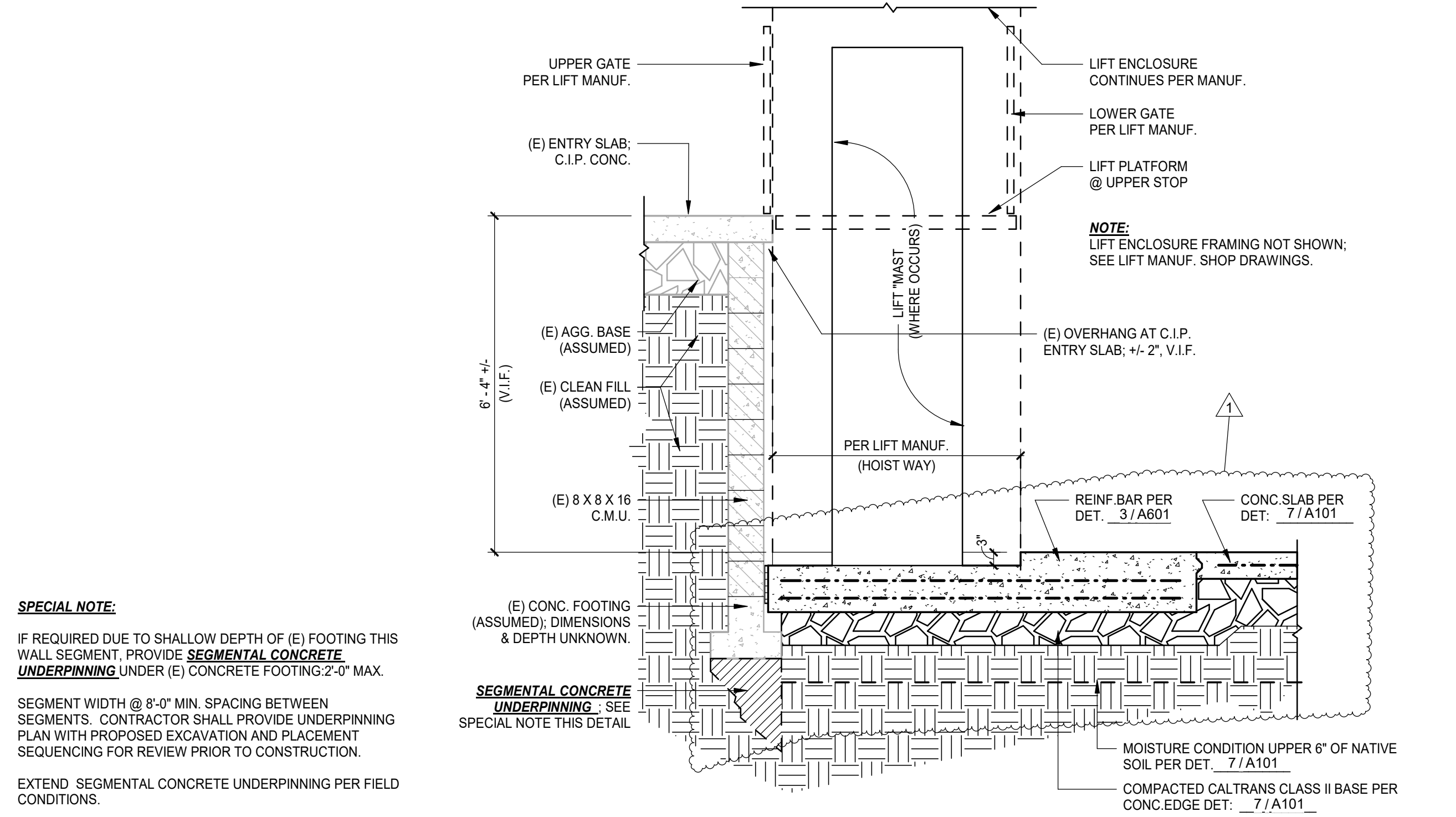
4 DETECTABLE WARNING SURFACE
3" = 1'-0"



10 SECTION @ ACC.STALL
1/2" = 1'-0"



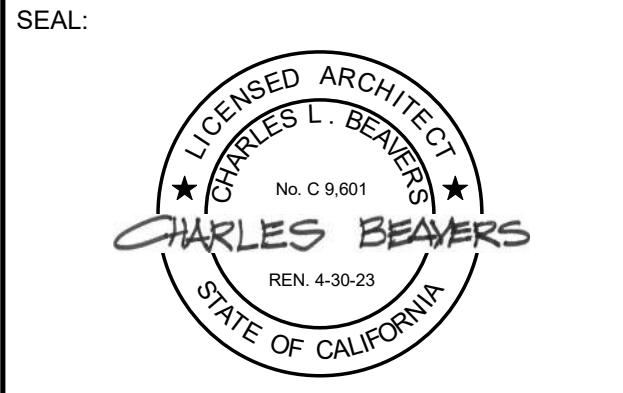
9 SECTION @ LIFT - SHORT AXIS
1/2" = 1'-0"



SPECIAL NOTE:
IF REQUIRED DUE TO SHALLOW DEPTH OF (E) FOOTING THIS WALL SEGMENT, PROVIDE SEGMENTAL CONCRETE UNDERPINNING UNDER (E) CONCRETE FOOTING 2'-0" MAX. SEGMENT WIDTH @ 8'-0" MIN. SPACING BETWEEN SEGMENTS. CONTRACTOR SHALL PROVIDE UNDERPINNING PLAN WITH PROPOSED EXCAVATION AND PLACEMENT SEQUENCING FOR REVIEW PRIOR TO CONSTRUCTION. EXTEND SEGMENTAL CONCRETE UNDERPINNING PER FIELD CONDITIONS.

8 SECTION @ LIFT - LONG AXIS
1/2" = 1'-0"

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE
1	PLAN CHECK COMMENTS	10/5/22



CONSULTANT:

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P.O. BOX 3103
ROHNERT PARK, CA 94927
WWW.BROKAWDESIGN.COM

PROJECT:
**CLARK COMPLEX
ACCESSIBILITY
MODIFICATIONS**

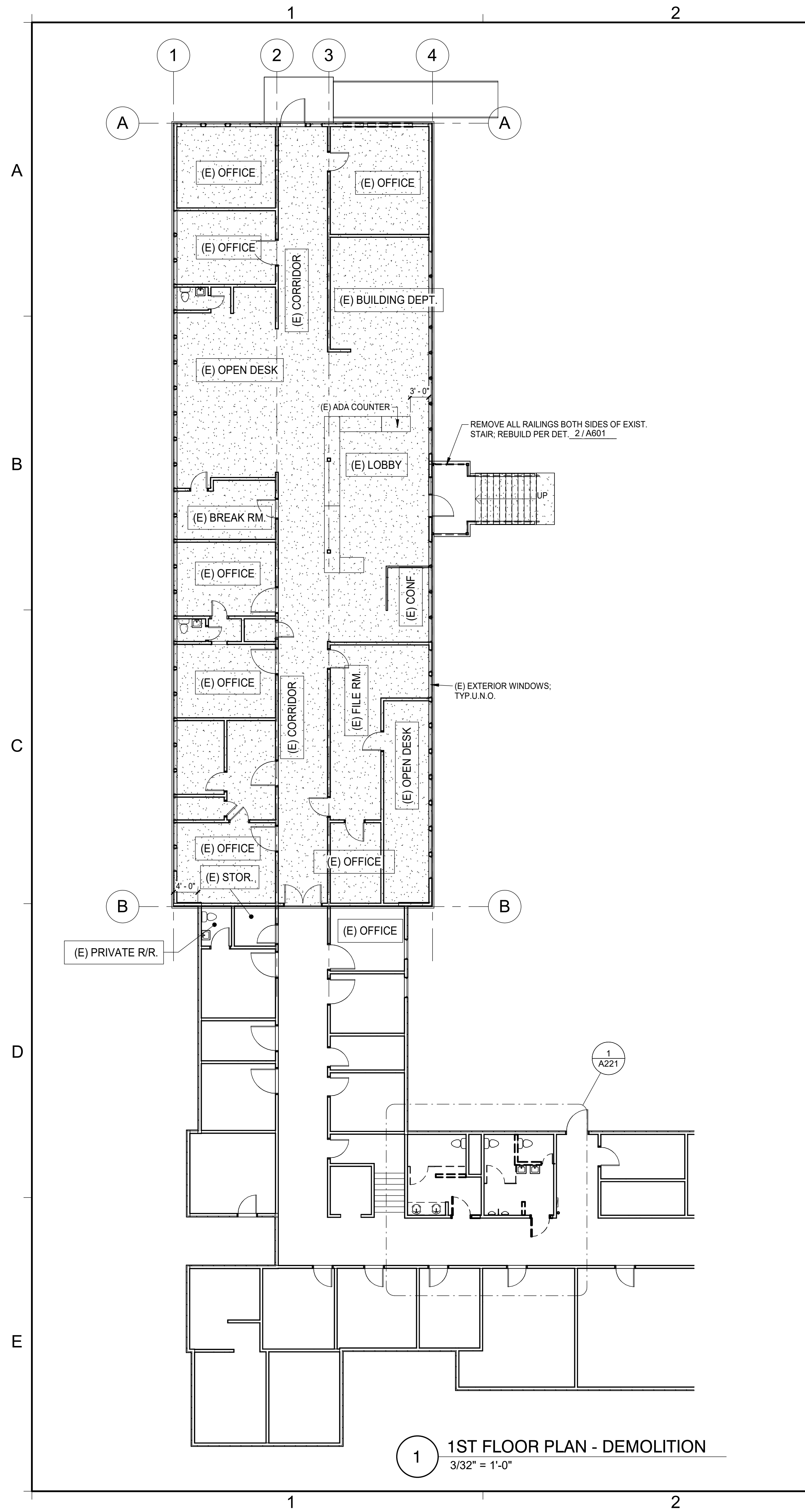
3015 H STREET
EUREKA, CA 95501

SHEET NAME:
SITE DETAILS

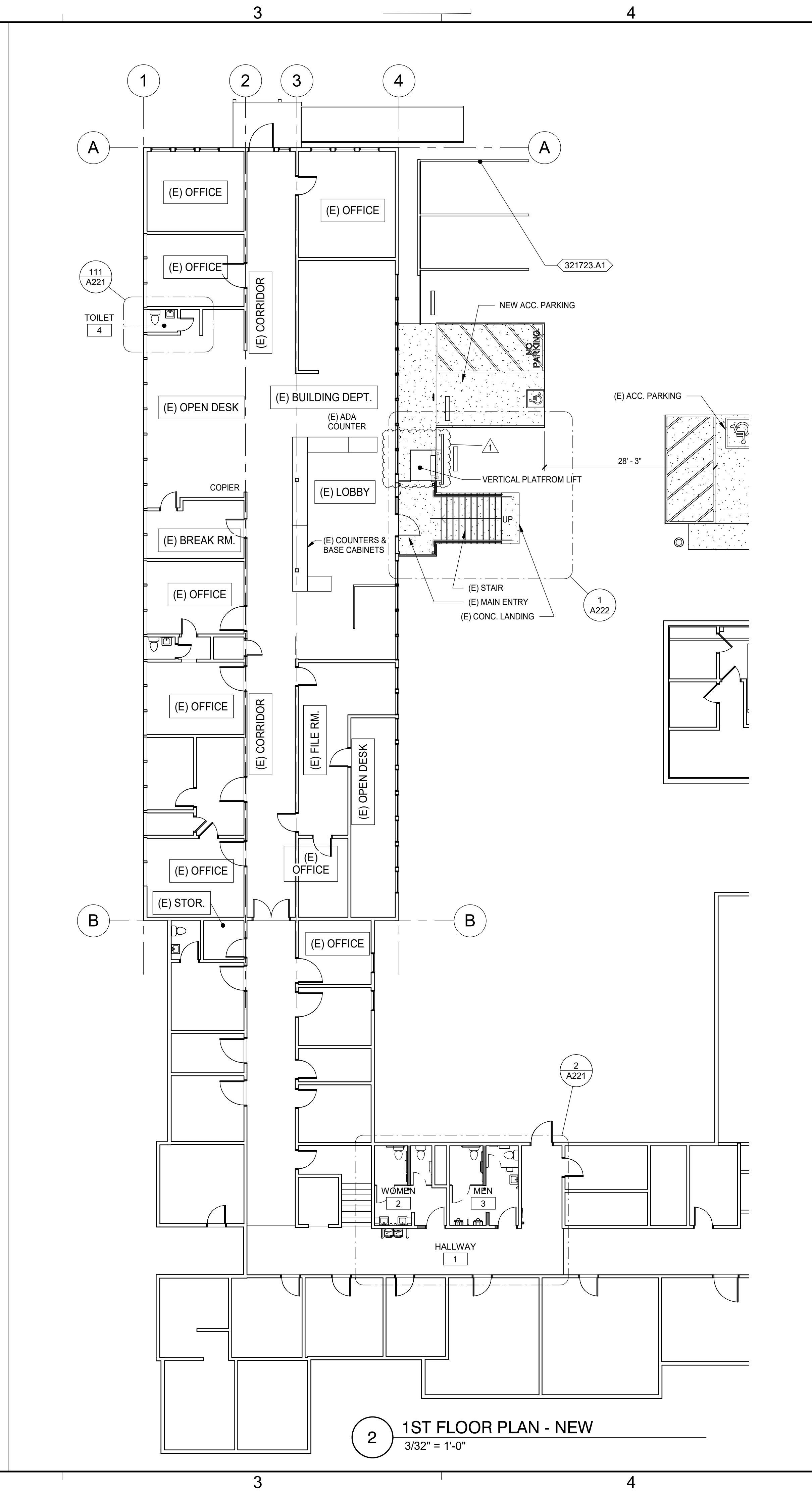
ISSUE DATE:	8/1/2022
PREPARATION AND REVIEW	
DRAWN BY:	mck
DESIGNER:	mck
PROJ MGR:	CLB
PEER REVIEW:	--
SHEET NUMBER:	

A101

PROJECT STATUS: FINAL DESIGN



1 1ST FLOOR PLAN - DEMOLITION
3/32" = 1'-0"



2 1ST FLOOR PLAN - NEW
3/32" = 1'-0"

GENERAL NOTES

A. STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING ITEMS INDICATED ON THIS SHEET ARE FOR REFERENCE ONLY. REFER TO RESPECTIVE DISCIPLINE DRAWINGS FOR CONSTRUCTION DRAWING INFORMATION.

B. REFER TO ENLARGED FLOOR PLANS OF TOILETS FOR COMPLETE CONSTRUCTION DOCUMENTATION INFORMATION.

C. REFER TO DOOR SCHEDULE FOR DOOR TYPES AND DIMENSIONS.

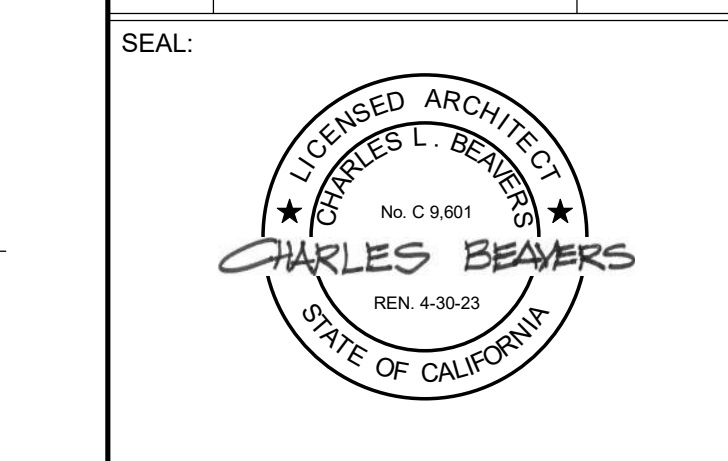
D. GENERAL CONTRACTOR SHALL OBTAIN SHOP DRAWINGS OF LIFT, AND SHALL SUBMIT SHOP DRAWINGS TO ARCHITECT FOR APPROVAL PRIOR TO START OF ANY WORK IN SUBJECT AREA. SHOP DRAWINGS SHALL BE PREPARED BY KNOWLEDGABLE PERSON(S) WITH RELEVANT EXPERIENCE.

KEYNOTES

321723.A1 NEW STRIPING ALONG BUILDING

REVISION SCHEDULE

NO.	DESCRIPTION	DATE
1	PLAN CHECK COMMENTS	10/5/22



CONSULTANT:

BrokawDesign
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PROJECT:
**CLARK COMPLEX
ACCESSIBILITY
MODIFICATIONS**

3015 H STREET
EUREKA, CA 95501

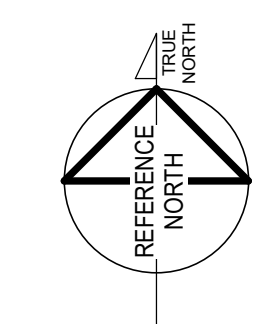
SHEET NAME:
**FIRST FLOOR
PLANS**

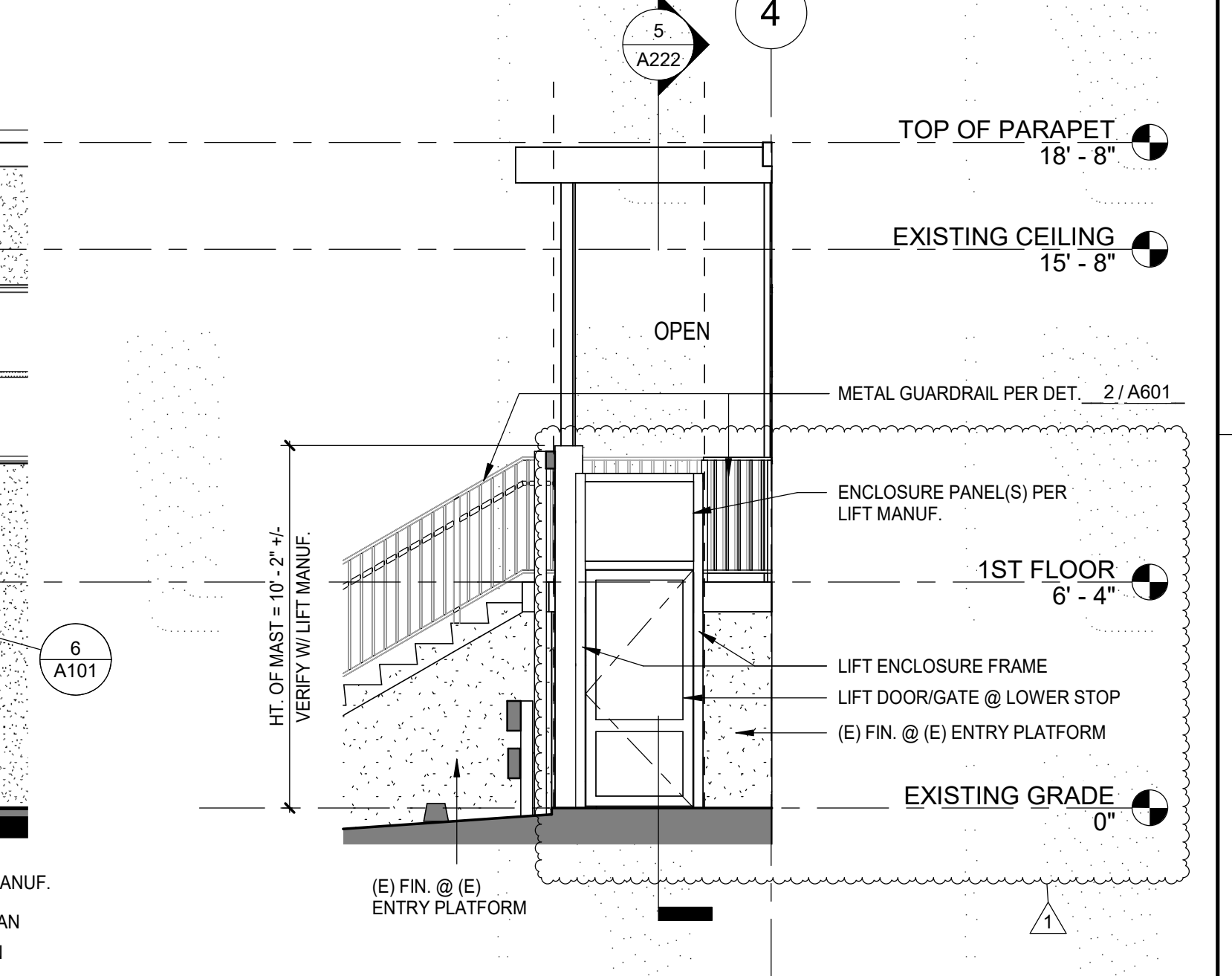
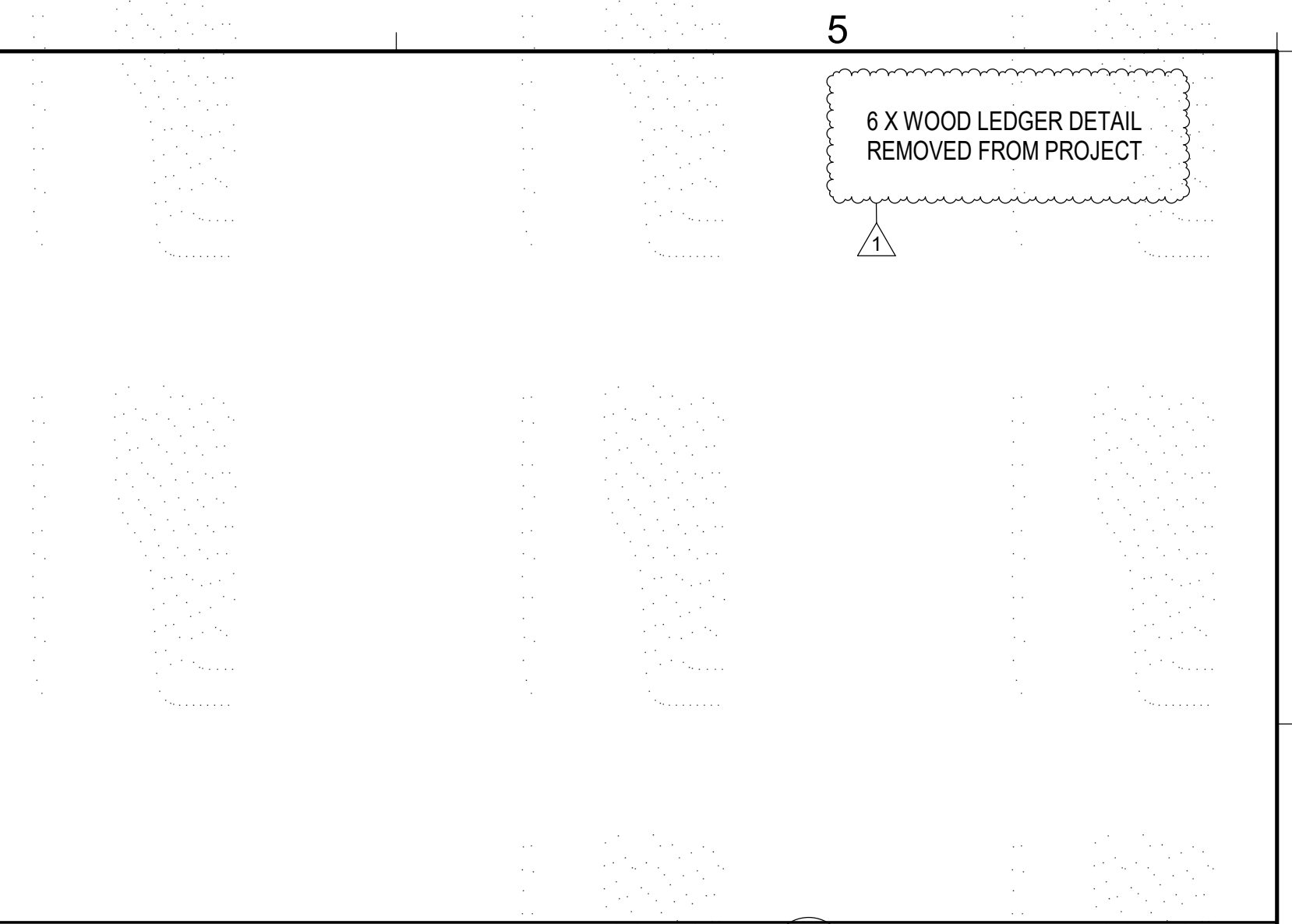
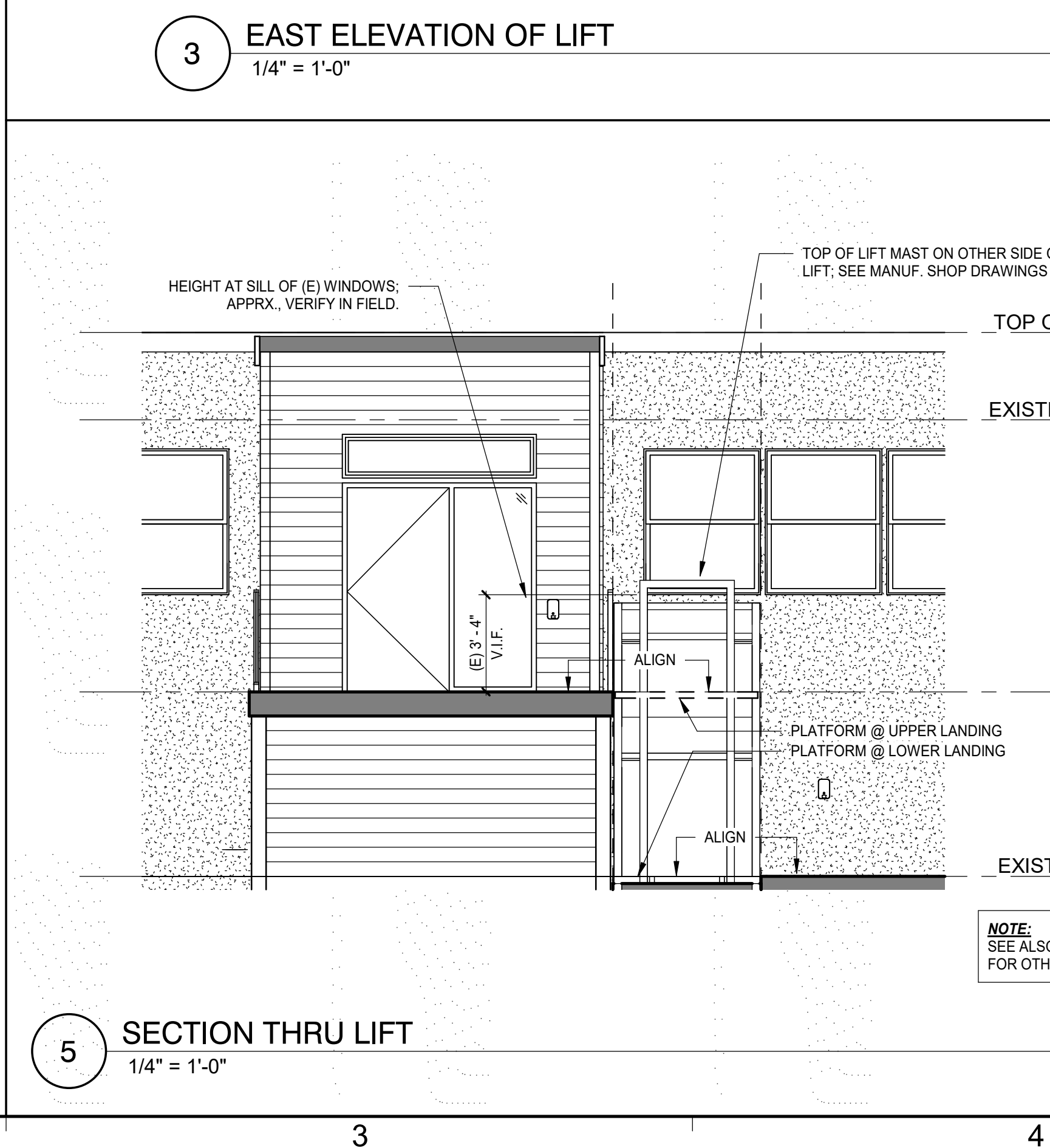
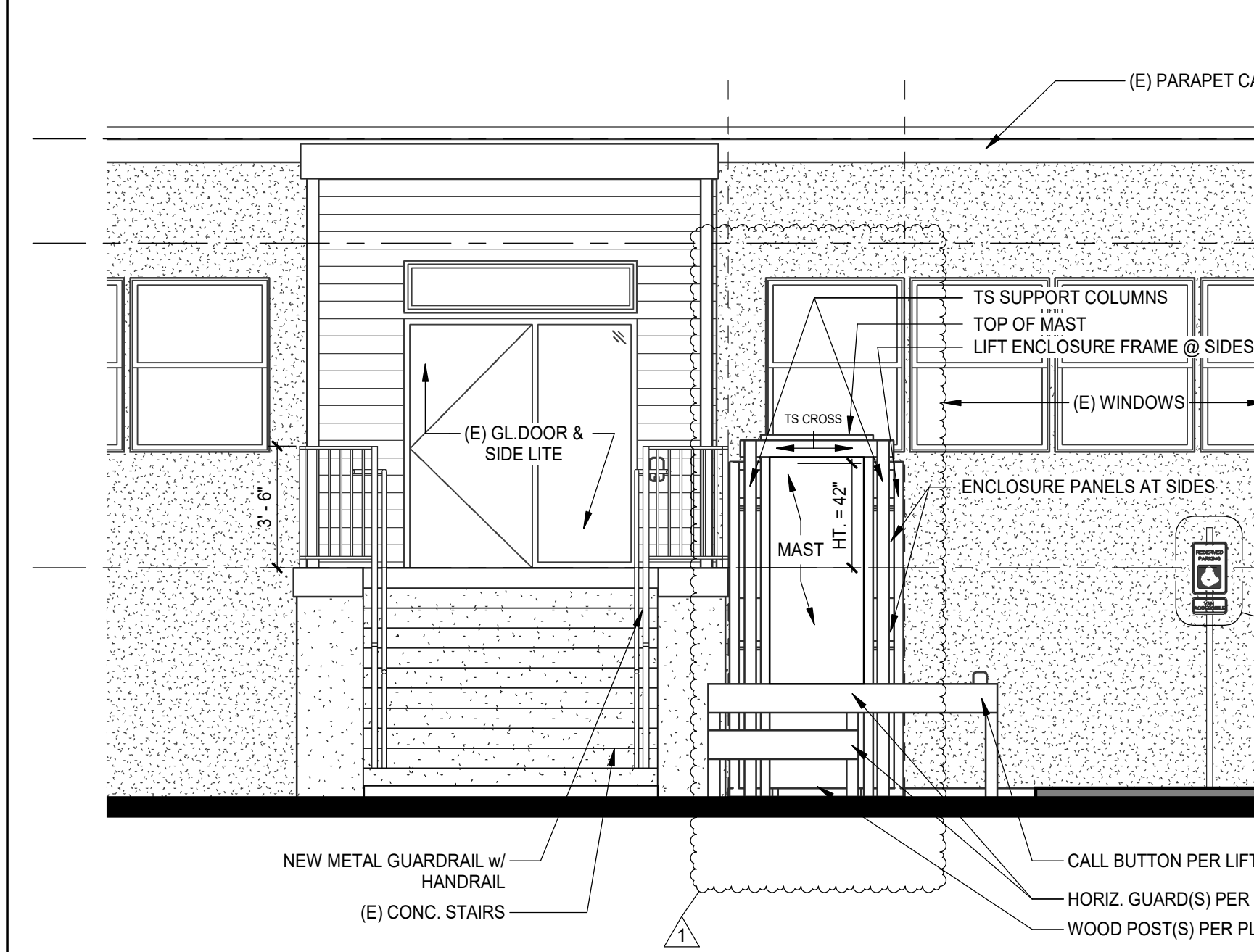
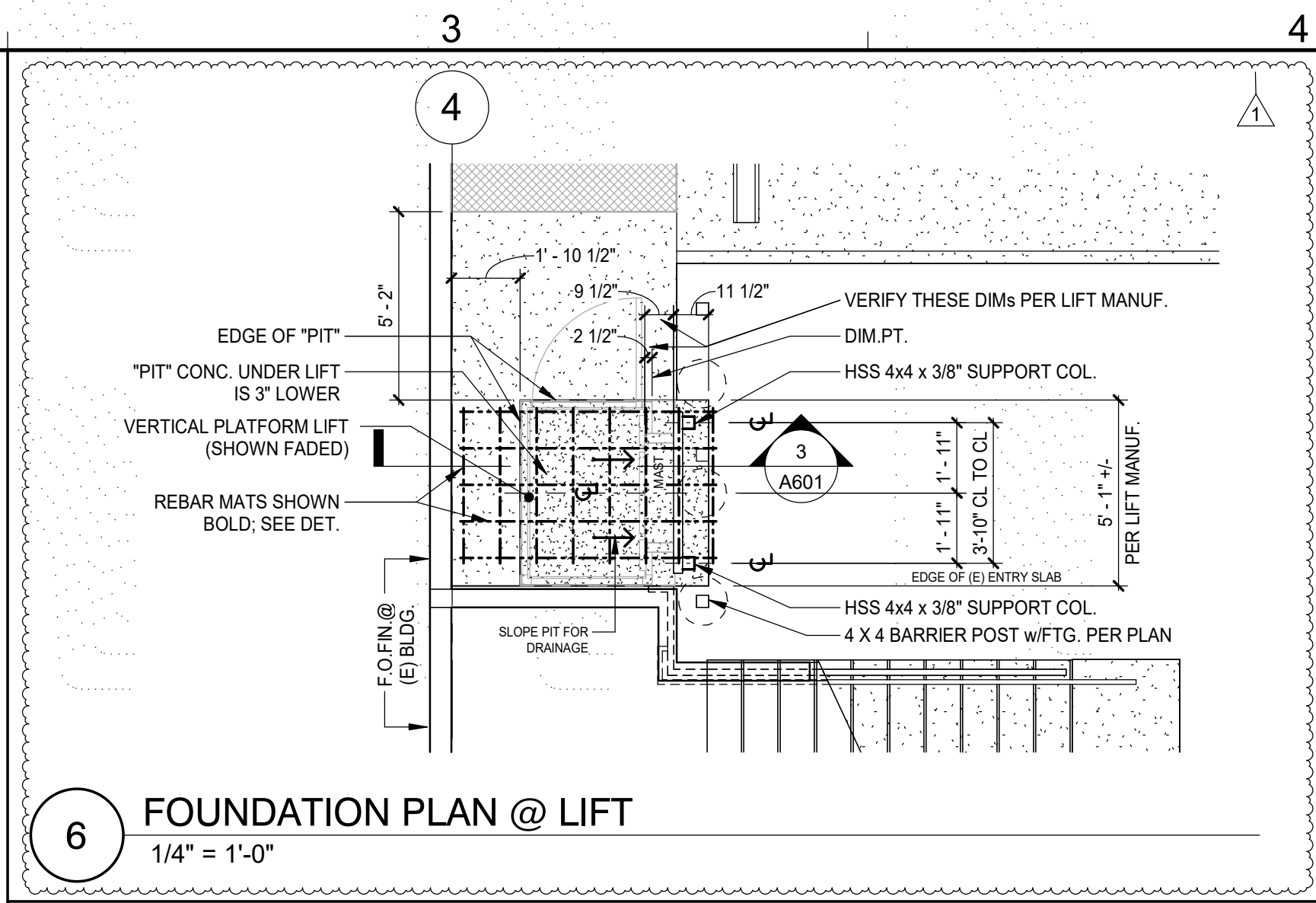
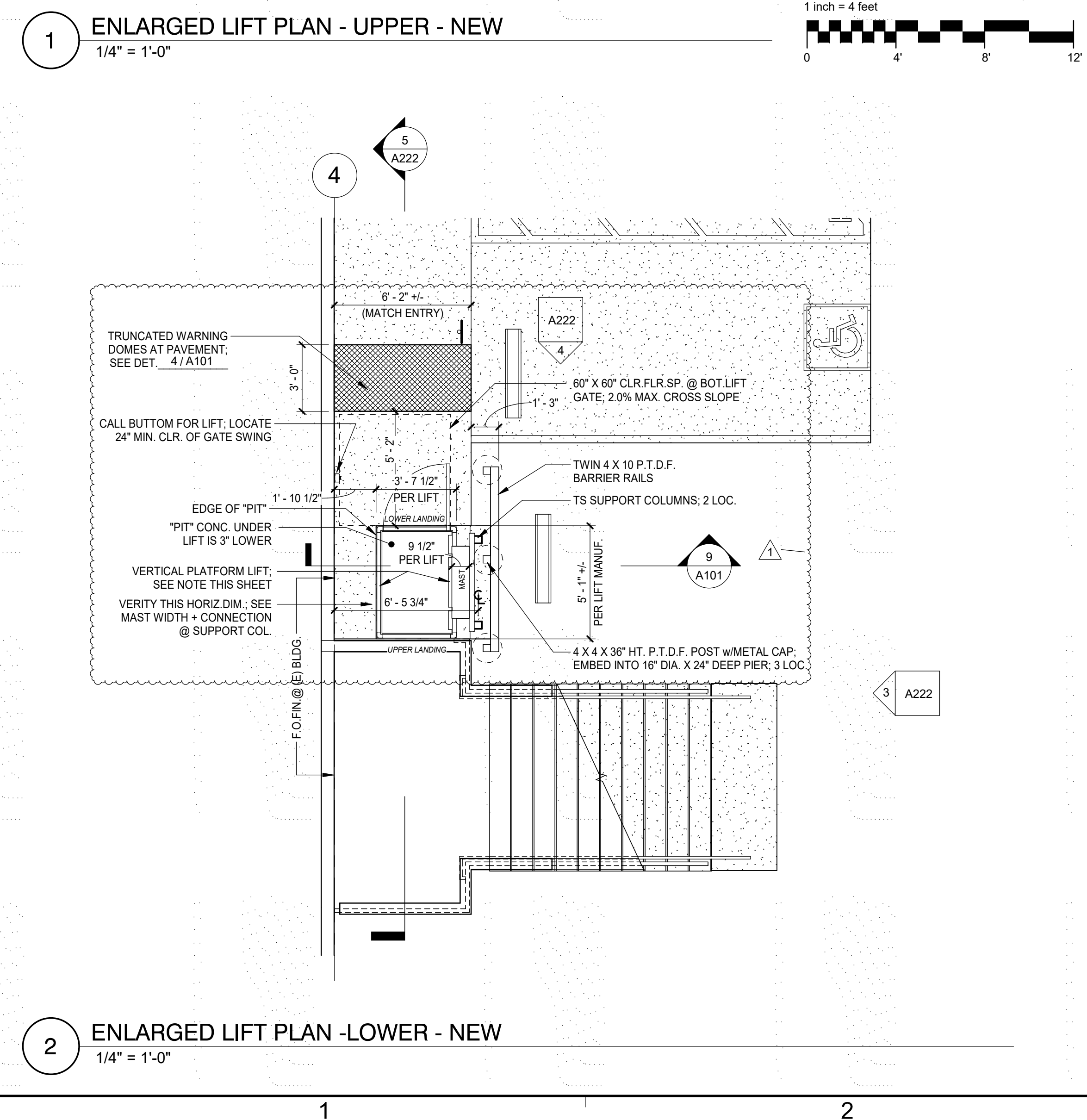
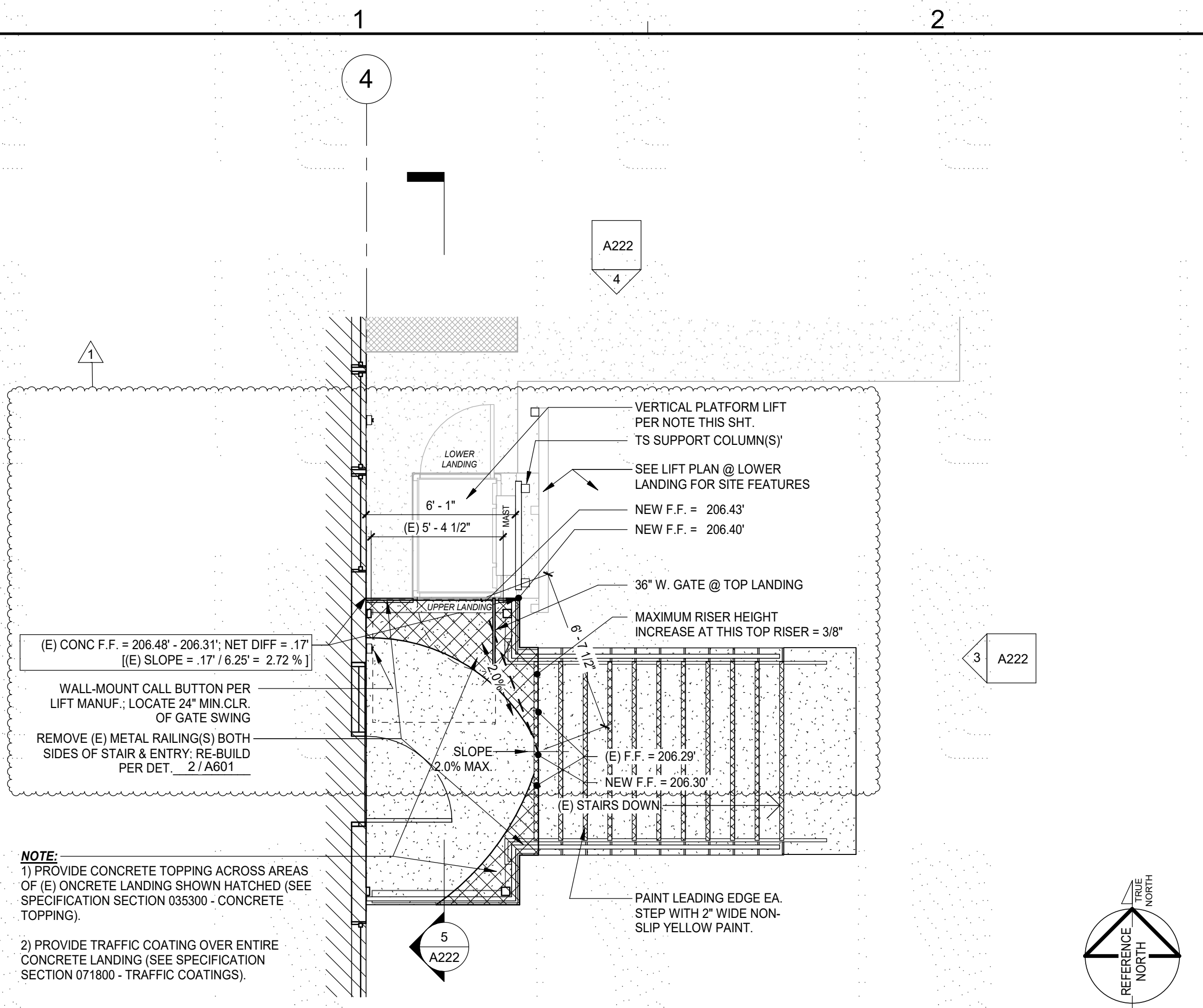
ISSUE DATE: 8/1/2022
PREPARATION AND REVIEW

DRAWN BY: DSP
DESIGNER: CLB
PROJ MGR:
PEER REVIEW: MCK
SHEET NUMBER:

PROJECT STATUS: FINAL DESIGN

A201





GENERAL NOTES

- STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING ITEMS INDICATED ON THIS SHEET ARE FOR REFERENCE ONLY. REFER TO RESPECTIVE DISCIPLINE DRAWINGS FOR CONSTRUCTION DRAWING INFORMATION.
- REFER TO ENLARGED FLOOR PLANS OF TOILETS FOR COMPLETE CONSTRUCTION DOCUMENTATION INFORMATION.
- REFER TO DOOR SCHEDULE FOR DOOR TYPES AND DIMENSIONS.
- GENERAL CONTRACTOR SHALL OBTAIN SHOP DRAWINGS OF LIFT, AND SHALL SUBMIT SHOP DRAWINGS TO ARCHITECT FOR APPROVAL PRIOR TO START OF ANY WORK IN SUBJECT AREA. SHOP DRAWINGS SHALL BE PREPARED BY KNOWLEDGABLE PERSON(S) WITH RELEVANT EXPERIENCE.

KEYNOTES

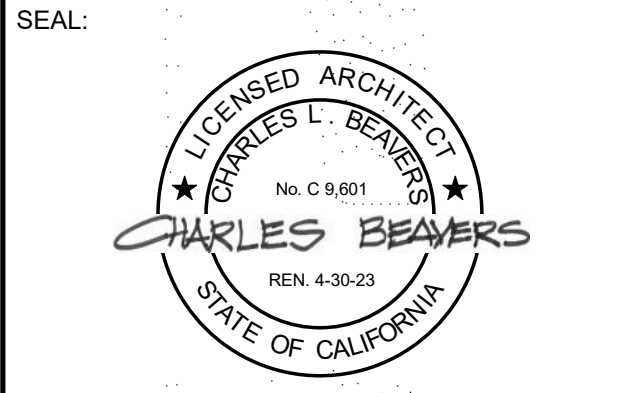
VERTICAL PLATFORM (Wheelchair) LIFT NOTES

MODEL: GENESIS HYDRAULIC DRIVE WITH ENCLOSURE
 TYPE: 2-STOP, STRAIGHT THRU 180 DEG. ENTRY/EXIT
 PLATFORM SIZE: STANDARD
 BASE DIM'S: WIDTH = 55 1/8", LENGTH = 59 1/4"
 PIT DIM'S: WIDTH = 56 1/8", LENGTH = 60 1/4"
 PIT DEPTH: 3"
 VERTICAL RISE: 76" +/-

SEE MANUF. SHOP DRAWINGS.

REFERENCE 2019 C.B.C. 11B-410 FOR ADDITIONAL REQUIREMENTS APPLICABLE TO WHEELCHAIR LIFT.

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE
1	PLAN CHECK COMMENTS	10/5/22



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PROJECT:
CLARK COMPLEX ACCESSIBILITY MODIFICATIONS

3015 H STREET
 EUREKA, CA 95501

ISSUE DATE: 8/1/2022
 PREPARATION AND REVIEW

DRAWN BY: Author
 DESIGNER: Designer
 PROJ MGR: PROJ MGR
 PEER REVIEW: Checker

SHEET NUMBER:

LIFT PLANS & DETAILS

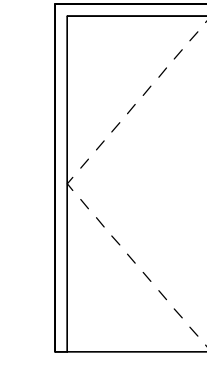
PROJECT STATUS: FINAL DESIGN

A222

ROOM FINISH SCHEDULE													
NUMBER	ROOM NAME	Area	FLOOR MATERIAL	BASE		WAINSCOT		WALL		CEILING			REMARKS
				HEIGHT	MATERIAL	MATERIAL	HEIGHT	MATERIAL	FINISH	MATERIAL	HEIGHT	FINISH	
1	HALLWAY	504 SF	(E) CARPET	(E)	(E)	---	---	(E) GYPSUM BOARD	PAINT	(E) GYPSUM BOARD		(E)	
2	WOMEN	136 SF	RESILIENT SHEET	6"	COVED RESILIENT SHEET	---	---	GYPSUM BOARD	FRP	(E) GYPSUM BOARD		PAINT	
3	MEN	145 SF	RESILIENT SHEET	6"	COVED RESILIENT SHEET	---	---	(E) GYPSUM BOARD	FRP	(E) GYPSUM BOARD		PAINT	
4	TOILET	19 SF	RESILIENT SHEET	6"	COVED RESILIENT SHEET	---	---	(E) GYPSUM BOARD	FRP	(E) GYPSUM BOARD		PAINT	

DOOR SCHEDULE															
Mark	TYPE	WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	GLASS	MAT.	FRAME FIN.	HEAD	JAMB	FIRE RATING	STC RATING	HARDWARE SET	REMARKS
2A	A	3'-0"	7'-0"	1 3/4"	SCW	TRANSPARENT	--	HOLLOW METAL	PAINT	5/A801 SIM	5/A801	--	--	SET #01	
3A	A	3'-0"	7'-0"	1 3/4"	SCW	TRANSPARENT	--	HOLLOW METAL	PAINT	5/A801 SIM	5/A801	--	--	SET #01	

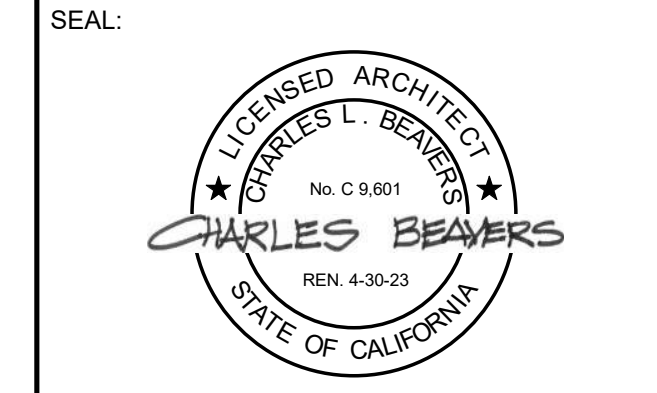
DOOR TYPES



TYPE A: SOLID PANEL, FLUSH

DOOR HARDWARE	
HARDWARE GROUP:	SET #01
HANGING	= 3 BUTT HINGES: "HAGER 4-1/2, BALL-BEARING" OR EQ.
LOCK / LATCH	= ND10S PASSAGE LATCH BY "SCHLAGE"
SECURITY	= NONE
CLOSER	= LCN 4040XPT
ACCESSORIES	= IVES DOOR SILENCER SR66
STOP	= IVES WALL MOUNT WS406
PROTECTION	= 10" HT. X DOOR WIDTH S.S. KICKPLATE (PUSH SIDE)
DOOR BOTTOM	= ZERO 328 DOOR SWEEP
PERIMETER SEAL(S)	= ZERO HEAD & JAMB GASKETS: #485
NOTES	
1. VERIFY HARDWARE WITH OWNER PRIOR TO MATERIAL ORDER OR INSTALLATION.	
2. HARDWARE FINISH SHALL MATCH EXISTING, OR BUILDING STANDARD.	
3. ---	

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE
1	PLAN CHECK COMMENTS	10/5/22



CONSULTANT:

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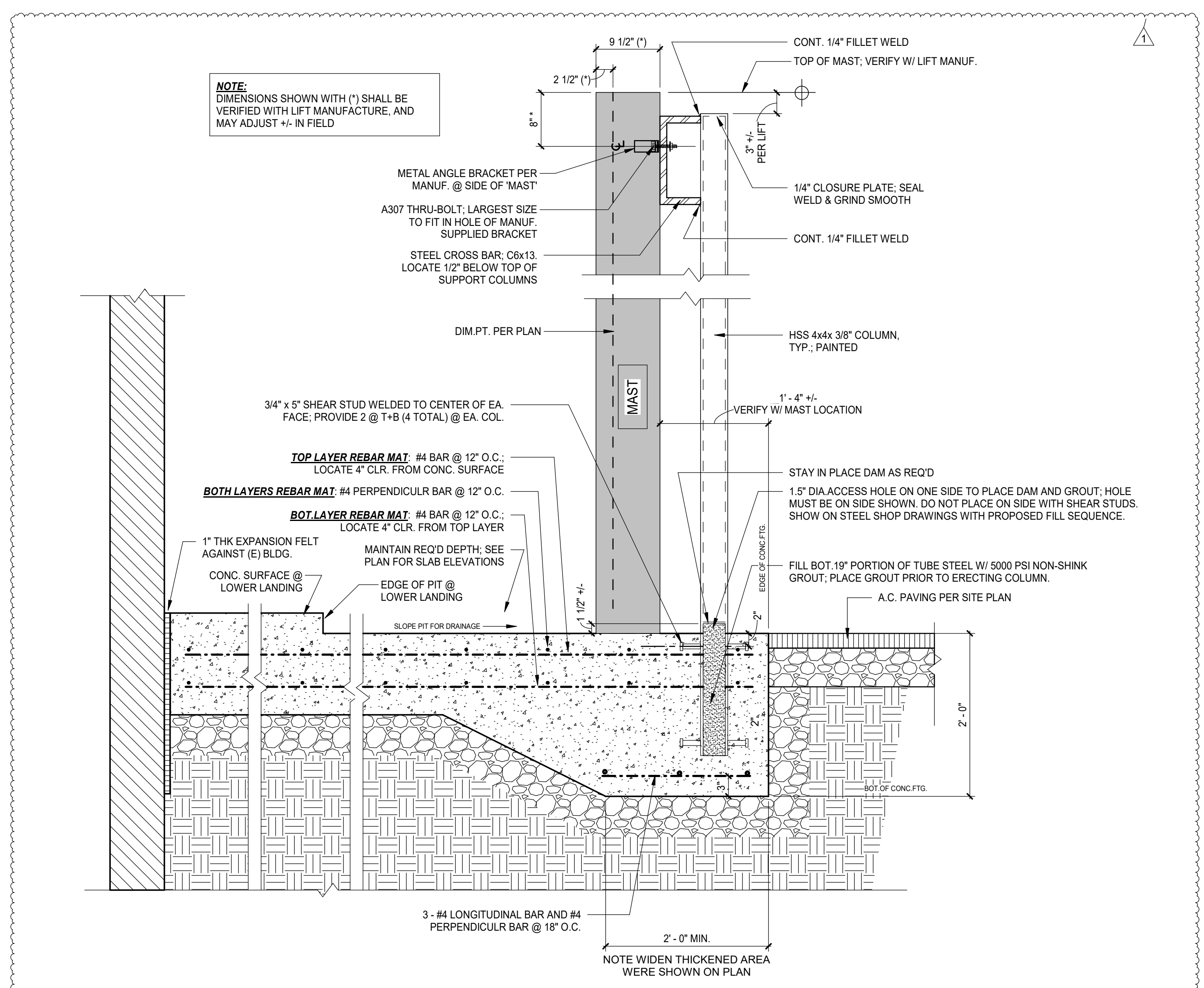
PROJECT:
**CLARK COMPLEX
ACCESSIBILITY
MODIFICATIONS**

3015 H STREET
EUREKA, CA 95501

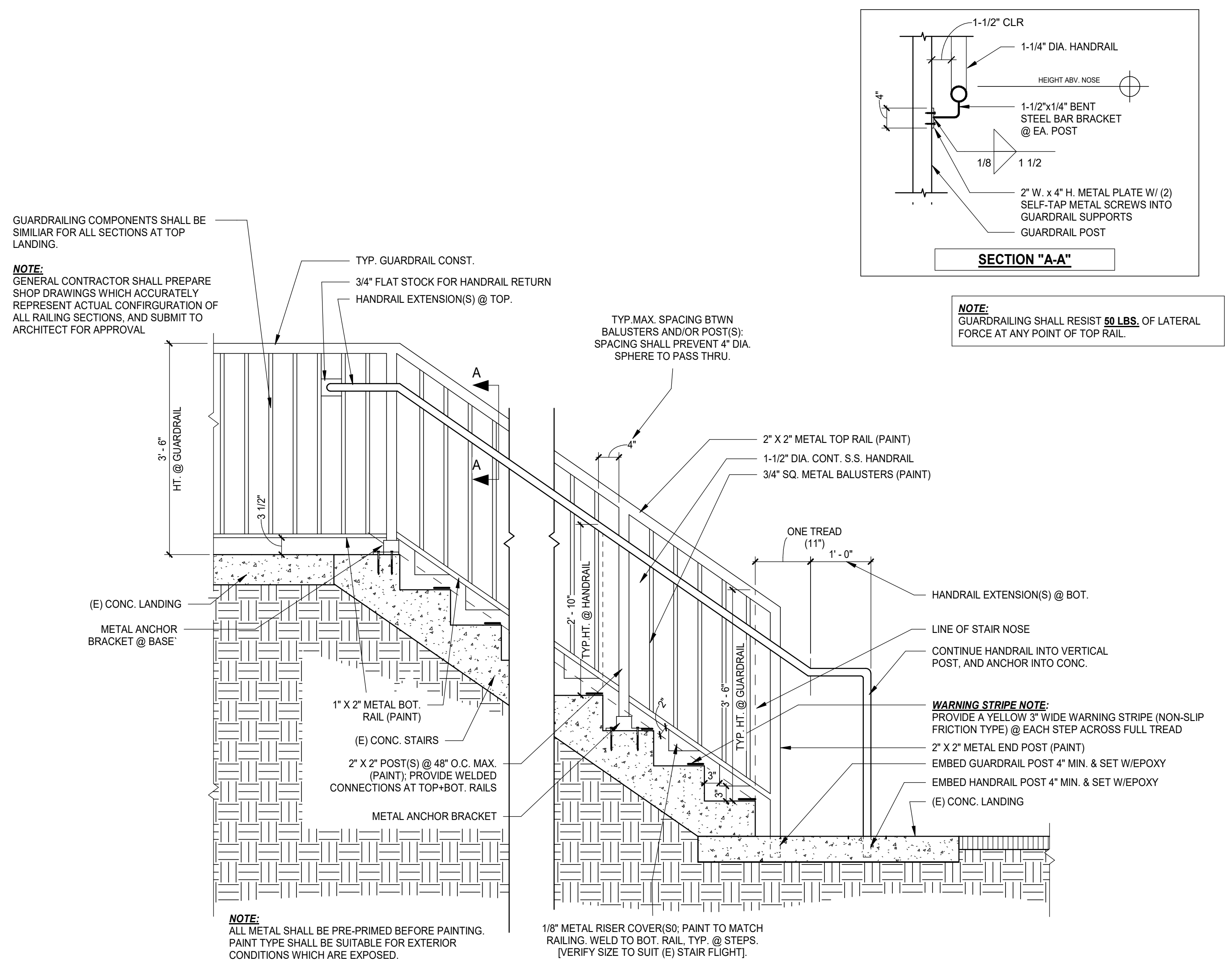
SHEET NAME:
**SCHEDULES &
DETAILS**

ISSUE DATE:	8/1/2022
PREPARATION AND REVIEW	
DRAWN BY:	Author
DESIGNER:	Designer
PROJ MGR:	
PEER REVIEW:	Checker
SHEET NUMBER:	

A601

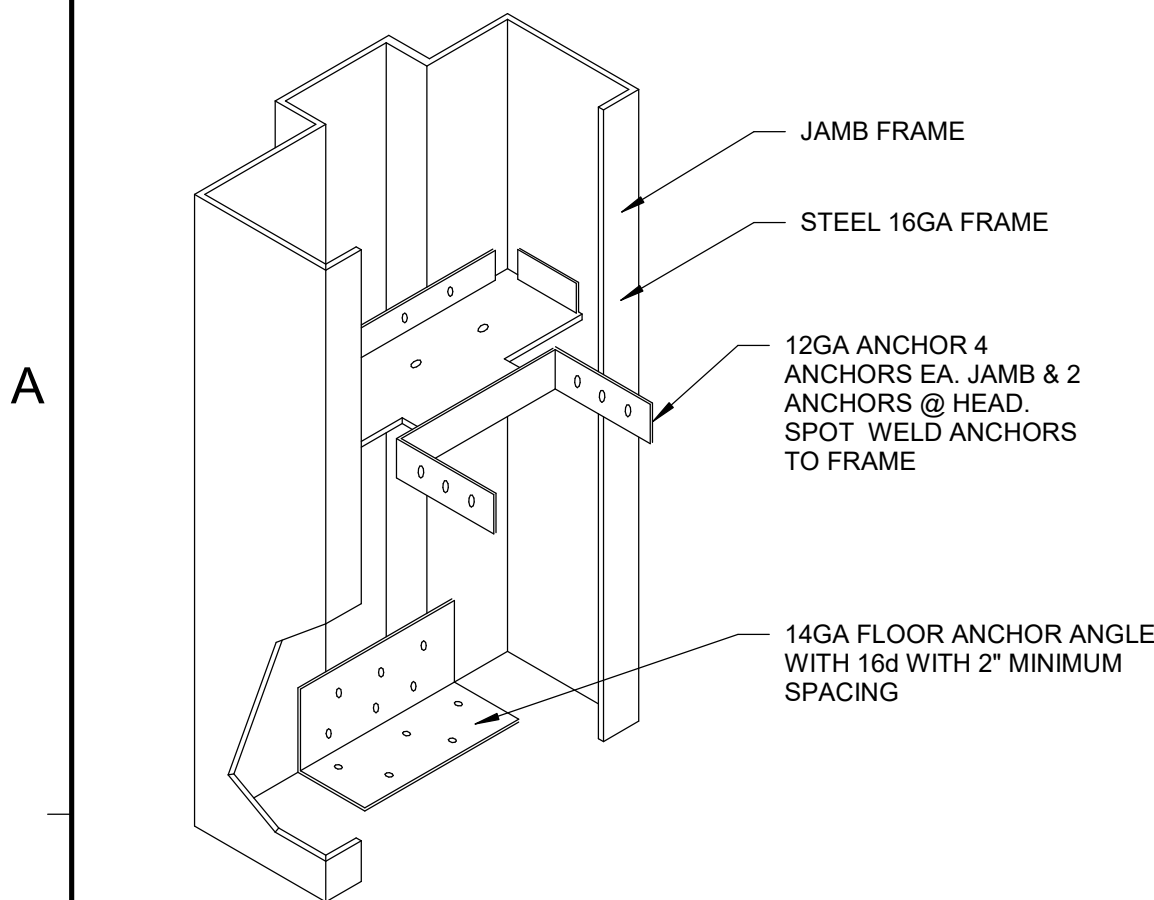


3 FOUNDATION @ SUPPORT COLUMNS
1" = 1'-0"

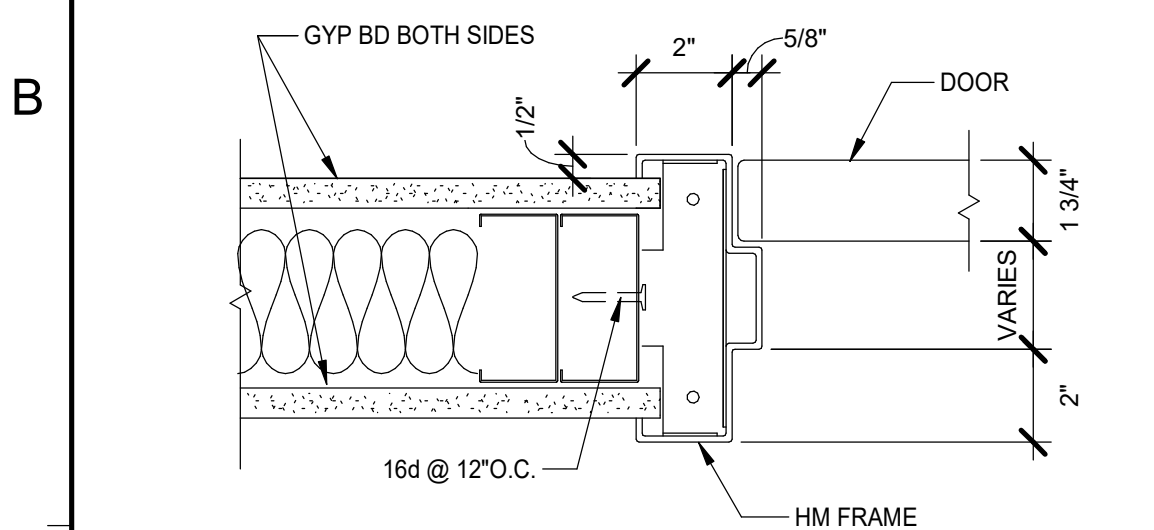


2 METAL RAILING @ (E) STAIR
3/4" = 1'-0"

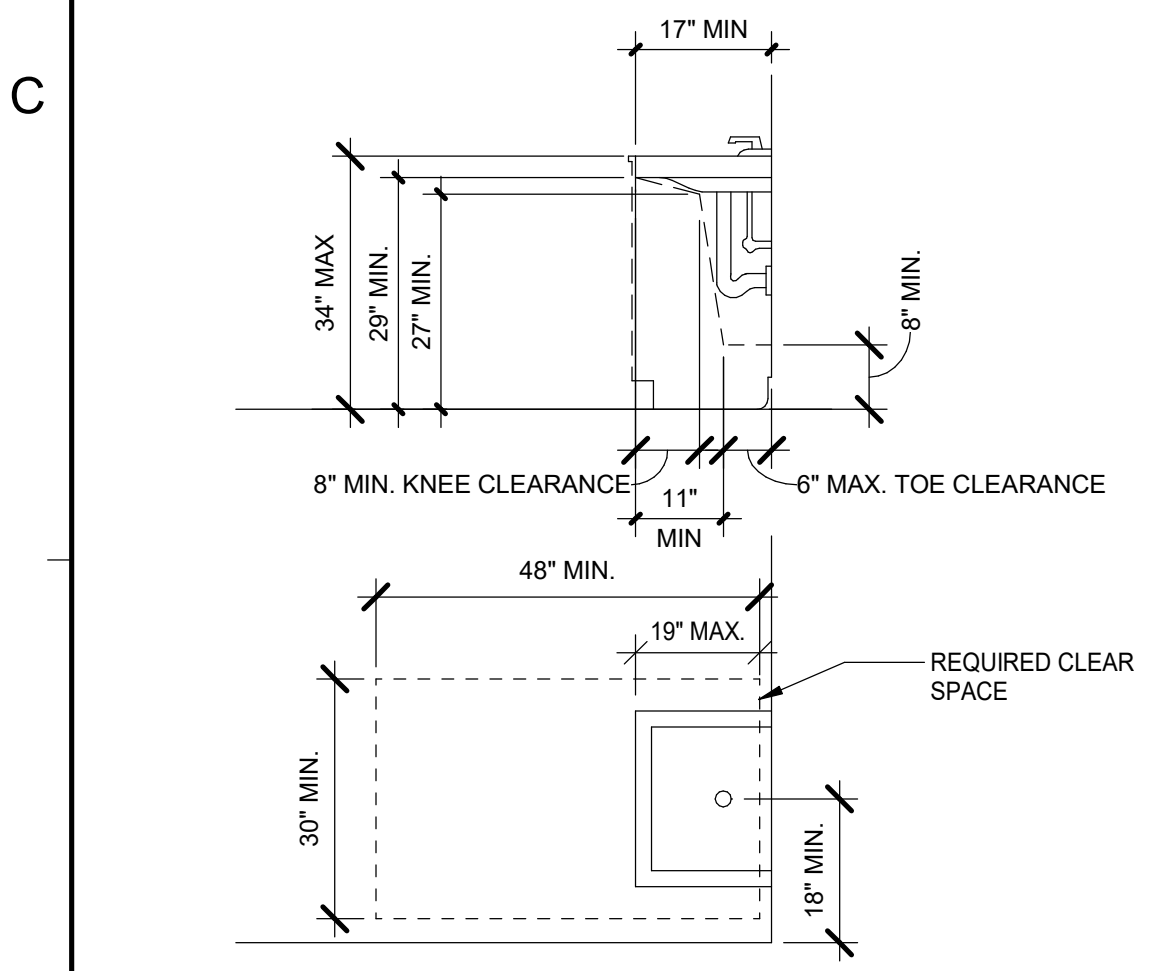
PROJECT STATUS: FINAL DESIGN



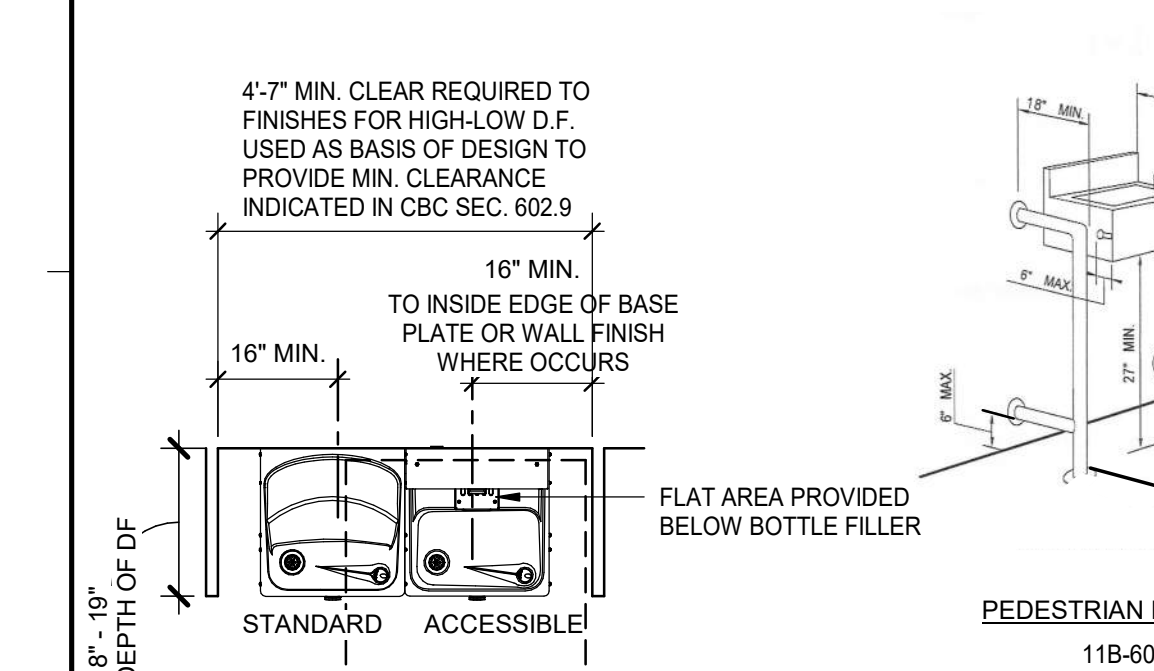
17 HOLLOW METAL DOOR FRAME ANCHORAGE
6\"/>



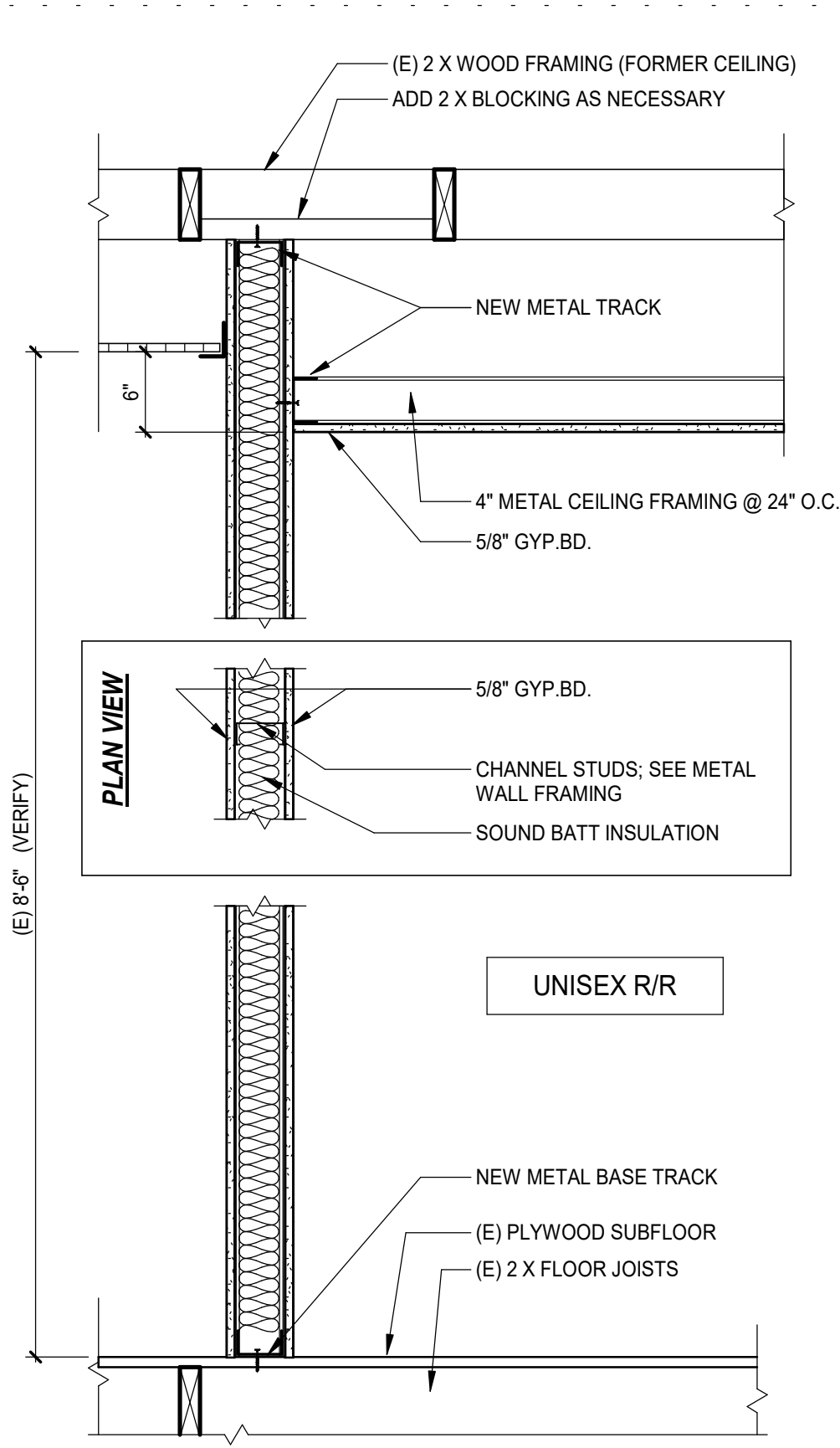
18 INTERIOR - DOOR JAMB METAL STUD (HEAD SIM)
3\"/>



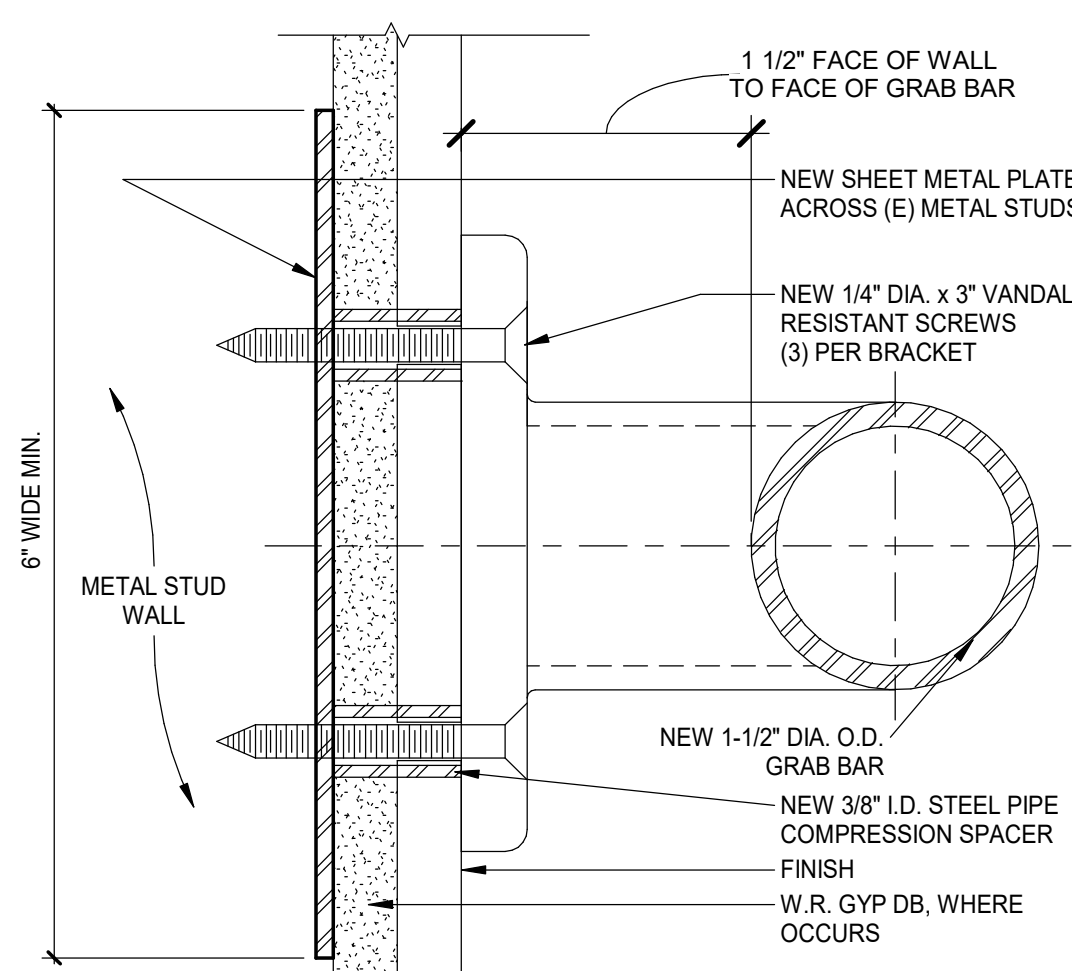
19 LAVATORY CLEAR SPACE
1/2\"/>



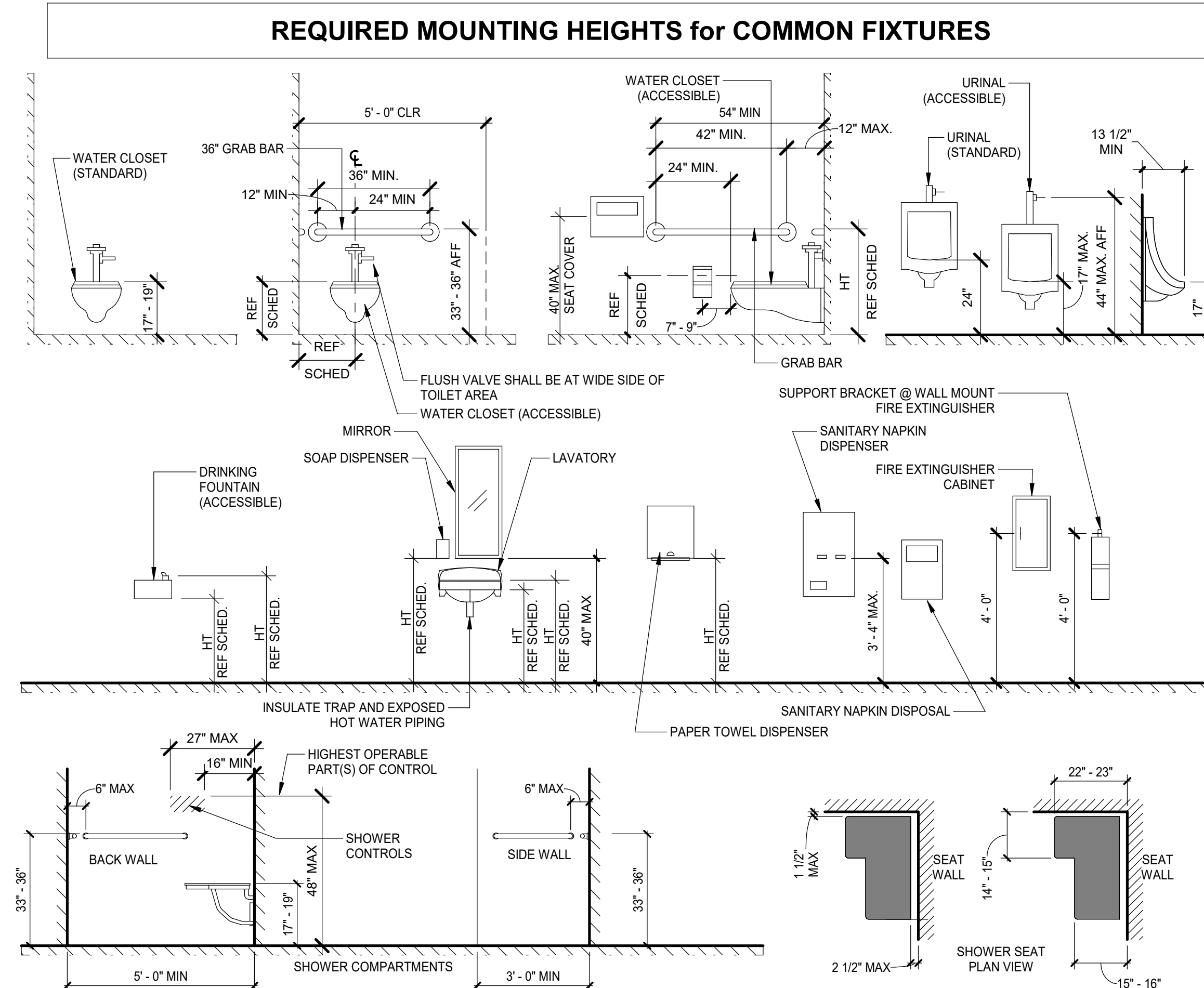
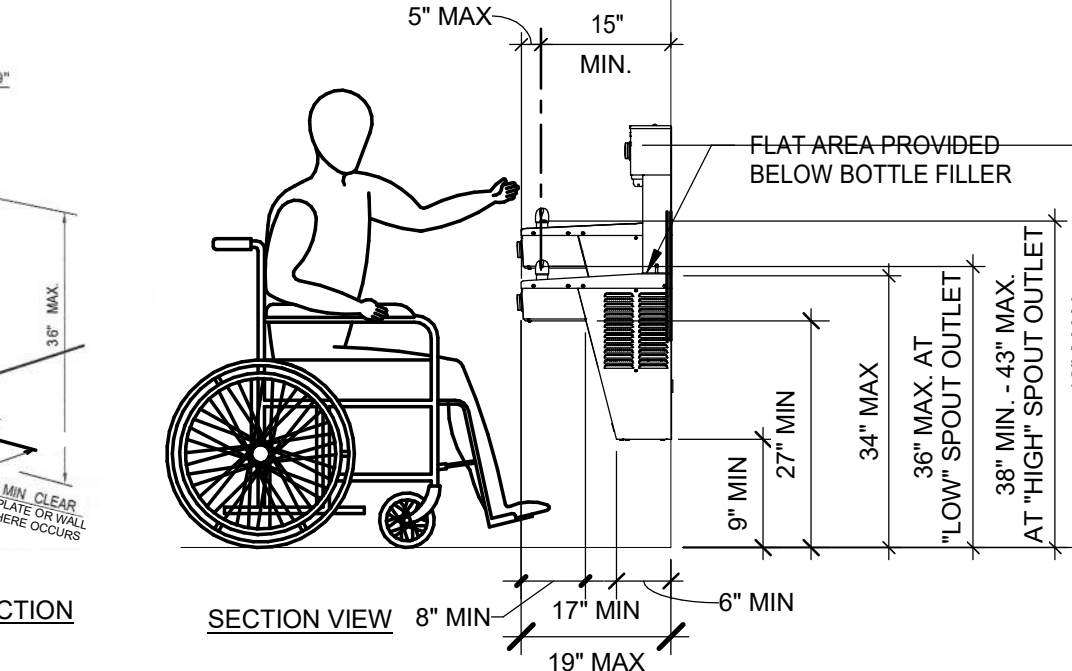
20 ACCESSIBLE DRINKING FOUNTAIN CLEARANCES
1/2\"/>



14 WALL SECTION TYP.
1\"/>



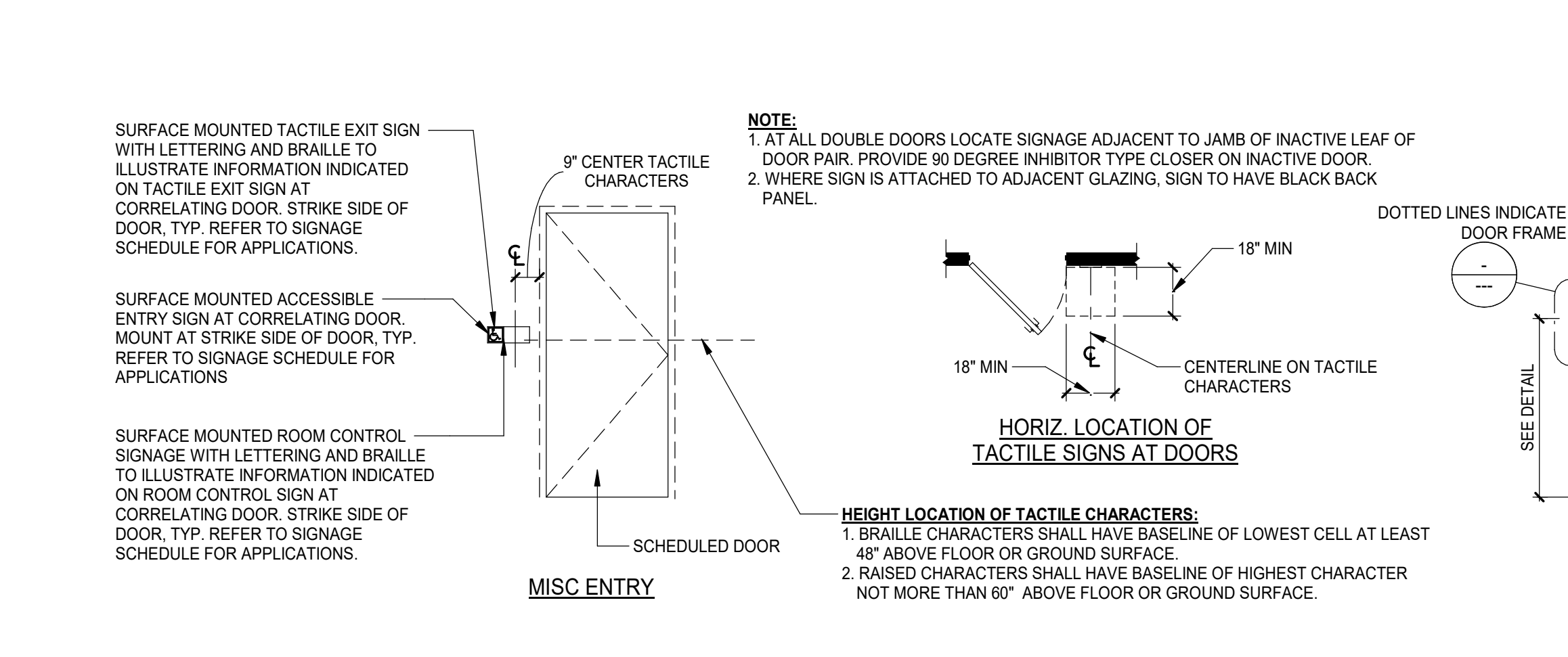
15 GRAB BAR REINFORCEMENT
12\"/>



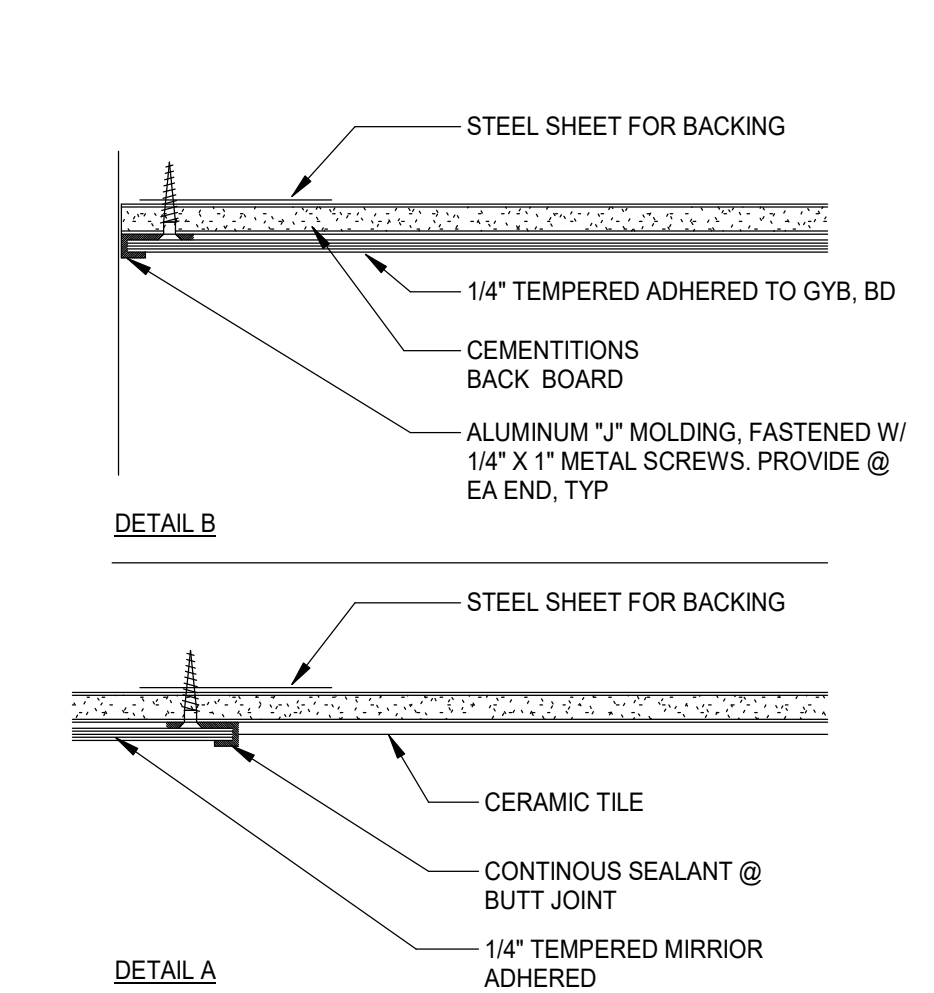
FIXTURE HEIGHT SCHEDULE		DIMENSION
TOILET CENTER LINE FROM WALL		17\"/>
TOILET SEAT HEIGHT (TOP OF SEAT)		17\"/>
GRAB BAR HEIGHT		33\"/>
TOILET PAPER DISPENSER IN FRONT OF TOILET: 3\"/>		
TOILET PAPER DISPENSER HEIGHT (POINT OF DISPENSING)		19\"/>
NAPKIN DISPOSAL (LOCATE BETWEEN REAR WALL & TOILET PAPER DISP.)		1'-0\"/>
DISPENSER OR MIRROR HEIGHT (BOTTOM EDGE OF REFLECTED EDGE OR OPERABLE FUNCTION OF DISPENSER)		3'-4\"/>
LAVATORY/SINK TOP HEIGHT		2'-10\"/>
LAVATORY/SINK KNEE CLEARANCE	FRONT EDGE: 2'-5\"/>	
URINAL LIP HEIGHT		1'-5\"/>
URINAL FLUSH HANDLE HEIGHT URINAL RIM TO PROJECT 14\"/>		
DRINKING FOUNTAIN BUBBLER HEIGHT (ACCESSIBLE)		3'-0\"/>
DRINKING FOUNTAIN KNEE CLEARANCE (ACCESSIBLE)		2'-3\"/>
DISPLAY BOARD(S): MARKER, CHALK TACK, etc.		3\"/>

NOTES:
 1. ALL FIXTURES AND ACCESSORIES ARE ACCESSIBLE UNLESS OTHERWISE NOTED OR DIMENSIONED.
 2. SEE ENLARGED TOILET PLAN DRAWINGS FOR TOILET ACCESSORY LOCATIONS.
 3. ALL ACCESSORIES ARE TO BE ACCESSIBLE WITH A MAXIMUM REACH HEIGHT OF 3'-4\"/>

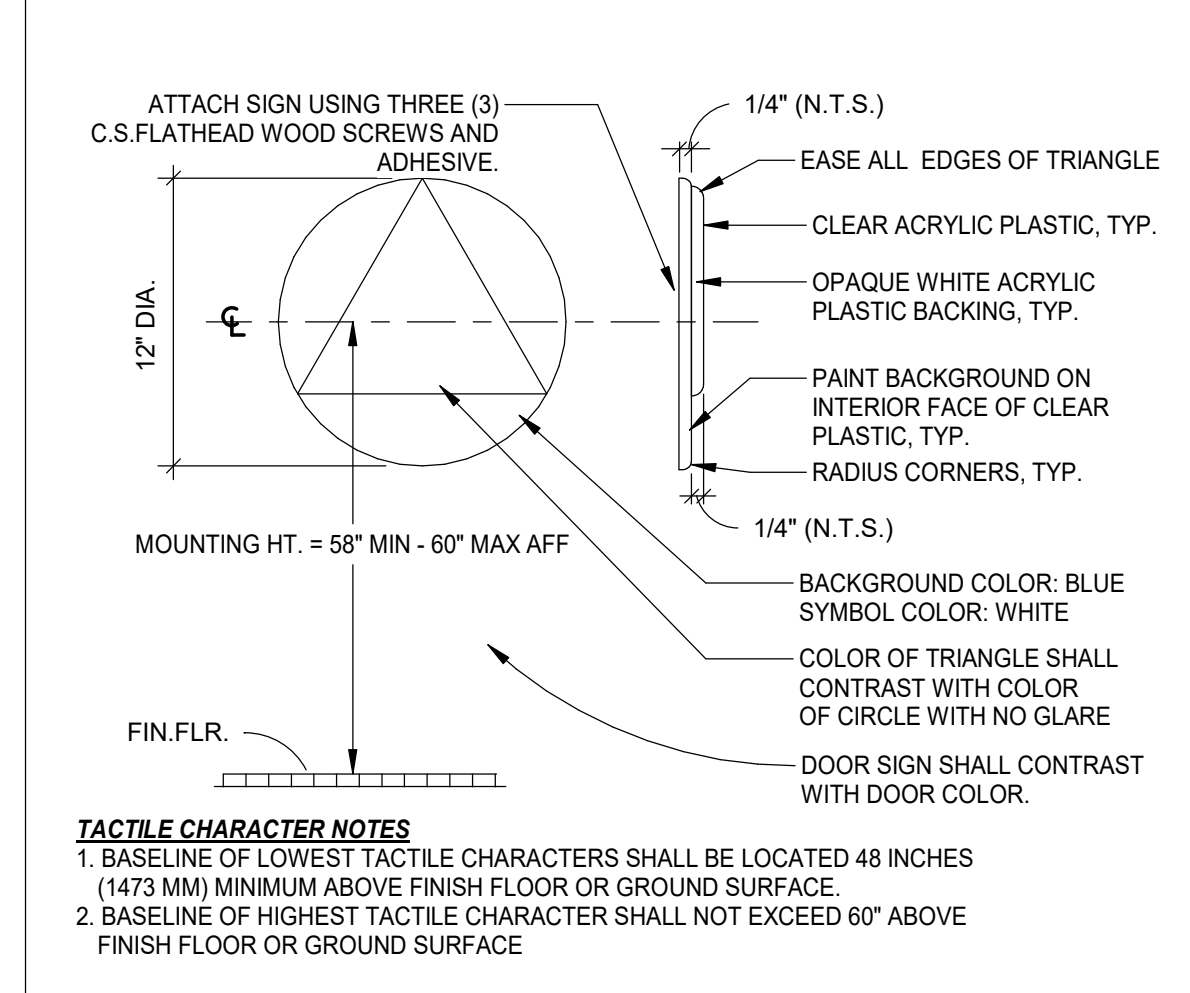
10 REQUIRED MOUNTING HEIGHTS for COMMON FIXTURES
3/8\"/>



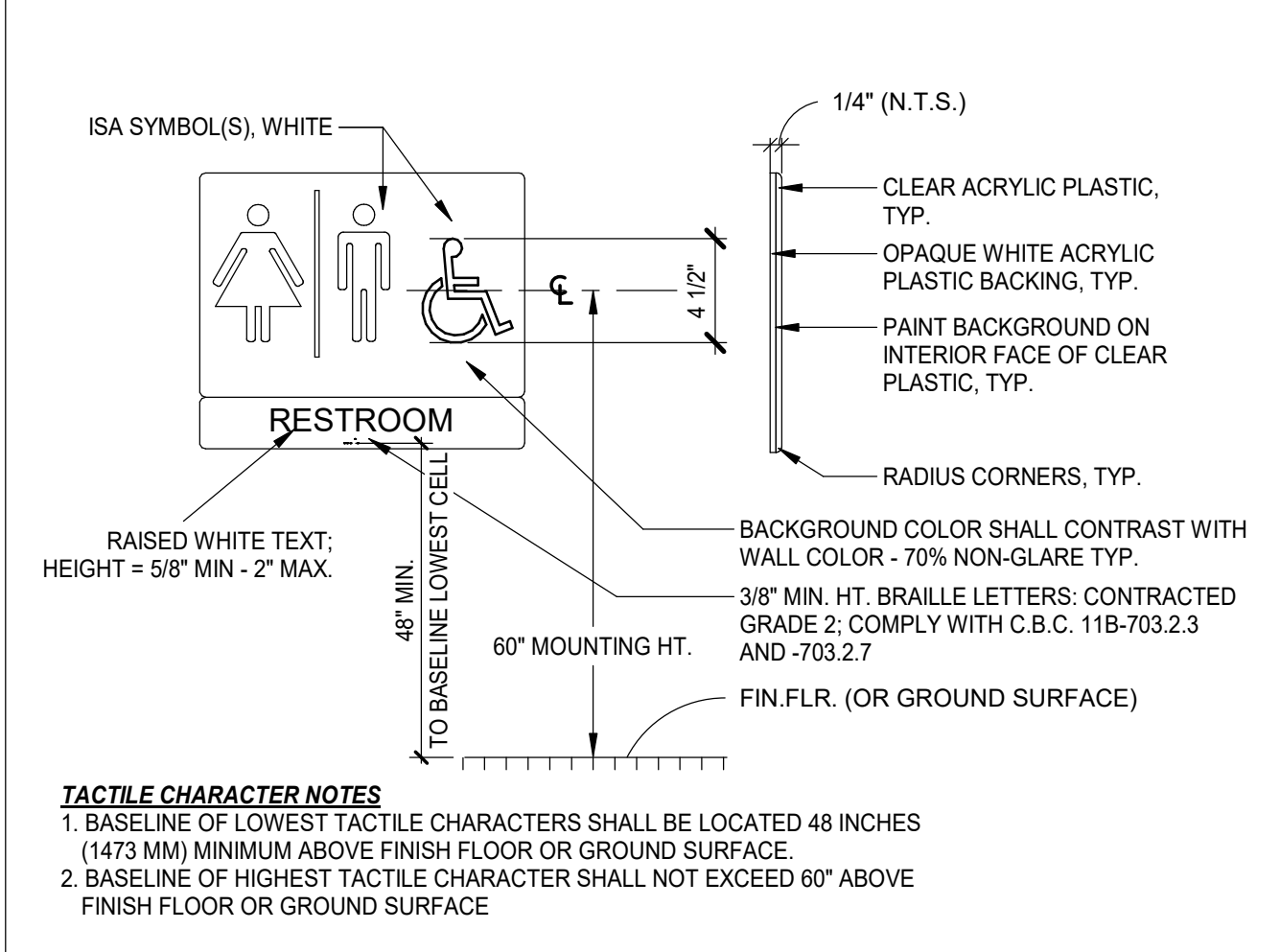
11 SIGNAGE - SIGNAGE MOUNTING DETAIL
1/4\"/>



12 MIRROR ATTACHMENT
3\"/>



8 UNISEX TOILET DOOR SIGNAGE
1 1/2\"/>



4 UNISEX TOILET WALL SIGNAGE
1 1/2\"/>

REVISION SCHEDULE

NO.	DESCRIPTION	DATE

SEAL:

CONSULTANT:

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PROJECT:
**CLARK COMPLEX
 ACCESSIBILITY
 MODIFICATIONS**
 3015 H STREET
 EUREKA, CA 95501

SHEET NAME:
**INTERIOR
 DETAILS**

ISSUE DATE: 8/1/2022
 PREPARATION AND REVIEW

DRAWN BY: DSP
 DESIGNER: CLB
 PROJ MGR: CLB
 PEER REVIEW: MCK

SHEET NUMBER:
A801

PLUMBING LEGEND

Table with plumbing symbols and descriptions: PIPE DROP, PIPE UP, PIPE BREAK, FLOOR CLEANOUT, CLEANOUT TO GRADE, GATE VALVE, BALL VALVE, CHECK VALVE, UNION, THERMOMETER, PRESSURE/TEMPERATURE RELIEF VALVE, HOSE BIBB (DIAGRAM), HOSE BIBB, FLOOR DRAIN, POINT OF CONNECTION, CAP INSTALLED ON (E) PIPE, WALL CLEAN OUT, DIRECTION OF PITCH IN PIPING, AT % GRADE, SANITARY SEWER PIPE, BG, SANITARY SEWER PIPE, AFG OR AFF, KITCHEN GREASE WASTE PIPE, BG, PROCESS WASTE, FUEL GAS PIPE (NATURAL OR PROPANE), DOMESTIC COLD WATER PIPE, DOMESTIC HOT WATER PIPE, DOMESTIC HOT WATER RETURN PIPE, VENT PIPE, ABOVE FINISHED GRADE.

ABBREVIATIONS

Table of abbreviations: (N) NEW, (E) EXISTING, AD ACCESS DOOR, AFC ABOVE FINISHED CEILING, AFF ABOVE FINISHED FLOOR, AFG ABOVE FINISHED GRADE, AHJ AUTHORITY HAVING JURISDICTION, AL ACOUSTICALLY LINED, ALM ALUMINUM, AP ACCESS PANEL, APSI ABSOLUTE PRESSURE, ATR ALL THREAD ROD, BF BELOW FLOOR, BG BELOW GRADE, BHP BRAKE HORSEPOWER, BLKG BLOCKING, BO BY OTHERS, BTU BRITISH THERMAL UNITS, BTUH BRITISH THERMAL UNITS PER HOUR, BV BALL VALVE, CD CONDENSATE DRAIN PIPING, CFF CAPPED FOR FUTURE, CFH CUBIC FEET PER HOUR, CFM CUBIC FEET PER MINUTE, CHWR CHILLED WATER RETURN, CHWS CHILLED WATER SUPPLY, CV CHECK VALVE, COTG CLEANOUT TO GRADE, CTE CONNECT TO EXISTING, CV CONSTANT VOLUME, CW DOMESTIC COLD WATER, CWW COMBINATION WASTE & VENT, DB DRY BULB TEMPERATURE, DH DUCT HEATER, DIA DIAMETER, DN DOWN, DWV DRAIN, WASTE, AND VENT, EA EXHAUST AIR, EAT ENTERING AIR TEMPERATURE, EC ELECTRICAL CONTRACTOR, ECM ELECTRONIC COMMUTATED MOTOR, EDH ELECTRIC DUCT HEATER, EFF EFFICIENCY, ESP EXTERNAL STATIC PRESSURE, EWT ENTERING WATER TEMPERATURE, F DEGREES FAHRENHEIT, FBO FURNISHED BY OTHERS, FC FLEXIBLE CONNECTION, FCO FLOOR CLEANOUT, FD FLOOR DRAIN, FDS FLOOR SINK, FLSA FULL LOAD AMPERES, FS FLOOR SINK, FSD COMBINATION FIRE/SMOKE DAMPER, FPM FEET PER MINUTE, FT FEET, FT2 SQUARE FEET, G GAS PIPING, GC GAS COCK, GC GENERAL CONTRACTOR, GPF GALLONS PER FLUSH, GPM GALLONS PER MINUTE, GSMS GALVANIZED SHEET, UON METAL SCREW, GV GATE VALVE, GW GREASE WASTE, HB HOSE BIBB, HHWR HEATING HOT WATER RETURN, HR HEAT RECOVERY, HWS HEATING HOT WATER SUPPLY, HP HORSEPOWER, HW DOMESTIC HOT WATER, HX HEAT EXCHANGER, IFC IN FURRED CEILING, IN INCH, INS INCHES, INS INSULATION, IS IN SOFFIT, IS ISSUE, IW INDIRECT WASTE, K KILOGRAMS, LAT LEAVING AIR TEMPERATURE, LBS POUNDS, LWT LEAVING WATER TEMPERATURE, MAT MIXED AIR TEMPERATURE, MAX MAXIMUM, MBH BTUH, THOUSANDS, MCA MINIMUM CIRCUIT AMPERES, MFR MANUFACTURER, MIN MINIMUM, MOCPP MAXIMUM OVERCURRENT PROTECTION, NA NOT APPLICABLE, NC NORMALLY CLOSED, NIC NOT IN CONTRACT, NO NORMALLY OPEN, OA OUTSIDE AIR, OC ON CENTER, OD OVERFLOW DRAIN, OP OWNER PROVIDED, PH PRE-HEAT, POC POINT OF CONNECTION, PRTY PRESSURE TEMPERATURE RELIEF VALVE, PRV PRESSURE RELIEF VALVE, PSI GAUGE PRESSURE (POUNDS PER SQUARE INCH), PTDI PRESSURE TREATED DOUGLAS FIR, RA RETURN AIR, RD ROOF DRAIN, RVD RELIEF VALVE DISCHARGE, RL REFRIGERANT LIQUID PIPING, RPBW REDUCED PRESSURE BACKFLOW PREVENTER, RPM REVOLUTIONS PER MINUTE, RS REFRIGERANT SUCTION PIPING, RWL RAINWATER LEADER, S SENSOR, SA SHOCK ABSORBER, SA SUPPLY AIR, SAD SEE ARCHITECTURAL DRAWINGS, SCD SEE CIVIL DRAWINGS, SD STORM DRAIN, SD SMOKE DETECTOR, SED SEE ELECTRICAL DRAWINGS, SEER SEASONAL ENERGY EFFICIENCY RATIO, SHGF SOLAR HEAT GAIN FACTOR, SHR SENSIBLE HEAT RATIO, SMD SEE MECHANICAL DRAWINGS, SMS SHEET METAL SCREW, SOV SHUT OFF VALVE, SP SPRINKLER, SP STATIC PRESSURE, SPD SEE PLUMBING DRAWINGS, SQFT SQUARE FEET, SS SANITARY SEWER, SSD SEE STRUCTURAL DRAWINGS, T THERMOSTAT, TH THERMOMETER, TPV TRAP PRIMER VALVE, TSP TOTAL STATIC PRESSURE, TYP TYPICAL, U UNION, UG UNDERGROUND, UNLESS OTHERWISE NOTED, V VENT PIPING, VAV VARIABLE AIR VOLUME, VD VOLUME DAMPER, VFD VARIABLE FREQUENCY DRIVE, VIF VERIFY IN FIELD, VIPH VOLTS/PHASE-HERTZ, VSD VARIABLE SPEED DRIVE, VTR VENT THROUGH ROOF, W WITH, W/O WITHOUT, WA WATER HAMMER ARRESTOR, WB WET BULB TEMPERATURE, WC WATER COLUMN, WCO WALL CLEANOUT, WT WEIGHT.

CALGREEN NOTES

- IN ACCORDANCE WITH CALGREEN REQUIREMENTS, ALL PLUMBING FIXTURES SHALL COMPLY WITH THE FOLLOWING MINIMUM REQUIREMENTS. NOTE ACTUAL DESIGN MAY EXCEED THE MINIMUMS NOTED BELOW. SEE PLANS AND SPECIFICATIONS FOR ACTUAL FIXTURE SPECIFICATIONS.
a. WATER CLOSETS (TOILETS) - FLUSHOMETER VALVE-TYPE SINGLE FLUSH, MAXIMUM FLUSH VOLUME: ASME A 112.19.2/CSA B45.1 - 1.28 GAL (4.8 L)
b. WATER CLOSETS (TOILETS) - FLUSHOMETER VALVE-TYPE DUAL FLUSH, MAXIMUM FLUSH VOLUME: ASME A 112.19.14 AND U.S. EPA WATERSENSE TANK-TYPE HIGH-EFFICIENCY TOILET SPECIFICATION - 1.28 GAL (4.8 L)
c. WATER CLOSETS (TOILETS) - TANK TYPE: U.S. EPA WATERSENSE TANK-TYPE HIGH-EFFICIENCY TOILET SPECIFICATION
d. URINALS, MAXIMUM FLUSH VOLUME: ASME A 112.19.2/CSA B45.1 - 0.5 GAL (1.9 L)
e. URINALS, NONWATER URINALS: ASME A 112.19.19 (VITREOUS CHINA); ANSI Z124.9-2004 OR IAPMO Z124.9 (PLASTIC)
f. PUBLIC LAVATORY FAUCETS: MAXIMUM FLOW RATE - 0.5 GPM (1.9 L/MIN), ASME A 112.18.1/CSA B125.1
g. PUBLIC METERING SELF-CLOSING FAUCETS: MAXIMUM WATER USE - 0.25 GAL (1.0 L) PER METERING CYCLE, ASME A 112.18.1/CSA B 125.1
h. RESIDENTIAL BATHROOM LAVATORY SINK FAUCETS: MAXIMUM FLOW RATE - 1.5 GPM (5.7 L/MIN), ASME A 112.18.1/CSA B 125.1

EQUIPMENT ANCHORAGE NOTES

- MEP COMPONENT ANCHORAGE NOTE
ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE APPROVED CONSTRUCTION DOCUMENTS, WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1615A. 1.12 THROUGH 1.22 AND ASCE 7-10 CHAPTER 6 AND 13.
1. ALL PERMANENT EQUIPMENT AND COMPONENTS
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS, OR WATER.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.
THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.
A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTES

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7, 13.6.5.6, AND 2019 CBC, SECTION 1616.

THE BRACING ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE PRE-APPROVALS (OPA #) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.

COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

PLUMBING GENERAL NOTES

- 1. DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO BE USED AS A GUIDE FOR THE INSTALLATION OF A COMPLETE PLUMBING SYSTEM. CONTRACTOR SHALL AMEND ALL INFORMATION AS REQUIRED AS SITE CONDITIONS WARRANT.
2. PROVIDE ALL EQUIPMENT AND LABOR NECESSARY FOR A COMPLETE AND WORKABLE INSTALLATION OF ALL SPECIFIED AND OWNER SUPPLIED EQUIPMENT AND FIXTURES.
3. ALL WORK SHALL BE PERFORMED IN FULL ACCORDANCE WITH ALL APPLICABLE CODES AND ORDINANCES.
4. ALL PLUMBING SHALL BE RUN PERPENDICULAR TO STRUCTURE UNLESS OTHERWISE NOTED.
5. PLUMBING SHALL AVOID ARCHITECTURAL OPENINGS AND SHALL BE RUN CONCEALED UNLESS OTHERWISE NOTED.
6. PLUMBING SHALL MAINTAIN A CLEARANCE OF 1" MINIMUM FROM ALL COMBUSTIBLE SURFACES.
7. CONTRACTOR SHALL VISIT SITE, AND FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO ORDERING OR FABRICATING. ANY DISCREPANCIES BETWEEN CONTRACT DOCUMENTS AND ACTUAL CONDITIONS SHALL BE ADDRESSED IN WRITING PRIOR TO COMMENCING WORK.
8. VALVES SHALL BE INSTALLED AT A SIZE EQUAL TO THE LINE SIZE OF THE PIPING SHOWN.
9. VALVES, SHOCK ABSORBERS, IN-LINE EQUIPMENT, ETC., SHALL NOT BE USED AS A LOCATION FOR SUPPORTS.
10. PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE AND AS CLOSE TO STRUCTURE AS POSSIBLE UNLESS OTHERWISE NOTED.
11. PROVIDE SEISMIC BRACING ON ALL PIPING GREATER THAN 12" FROM STRUCTURE.
12. MINIMUM INDIRECT WASTE AIR GAPS OVER FLOOR SINKS/DRAINS SHALL BE TWICE THE PIPE DIAMETER OF WASTE PIPE.
13. EACH VENT PIPE SHALL TERMINATE NOT LESS THAN TEN (10) FEET FROM, OR AT LEAST (3) FEET ABOVE ANY OPERABLE WINDOW, DOOR, OPENING, AIR INTAKE, OR VENT SHAFT, NOR LESS THAN (3) FEET IN EVERY DIRECTION FROM ANY LOT LINE, ALLEY AND STREET EXCEPTED. PER CPC 906.2
14. VALVES USED IN CONNECTION WITH GAS PIPING SHALL BE APPROVED TYPES AND SHALL BE ACCESSIBLE. PER CPC 1211.5
15. AN ACCESSIBLE SHUT-OFF VALVE OF A TYPE SET FORTH IN CPC SECTION 1211.5, SHALL BE INSTALLED IN THE FUEL SUPPLY PIPING OUTSIDE OF EACH APPLIANCE AND AHEAD OF THE UNION CONNECTION THERETO, AND IN ADDITION TO ANY VALVE ON THE APPLIANCE. SHUT-OFF VALVES SHALL BE WITHIN SIX (6) FEET OF THE APPLIANCE IT SERVES, AND IN THE SAME ROOM OR SPACE WHERE THE APPLIANCE IS LOCATED. PER CPC 1211.5
16. CONDENSATE WASTE DISPOSAL: THE WASTE PIPING SHALL HAVE A SLOPE OF NOT LESS THAN 1/8" PER FOOT OR ONE PERCENT SLOPE AND SHALL BE OF APPROVED CORROSION-RESISTANT MATERIAL NOT SMALLER THAN THE OUTLET SIZE AS REQUIRED IN CPC TABLE 814.1. CONDENSATE OR WASTE WATER SHALL NOT DRAIN OVER A PUBLIC WAY. PER CPC 814.3.
17. THE DRAWINGS REPRESENT THE DIAGRAMMATIC GRAPHICAL REPRESENTATION OF THE SCOPE OF WORK AND SHOULD NOT BE USED SOLELY TO DETERMINE SCOPE. CONTRACTORS SHALL BID THE ENTIRE SET OF CONTRACT DOCUMENTS INCLUDING CROSS-DISCIPLINE INFORMATION. ALL BIDS BASED UPON DRAWING INFORMATION ONLY CAN BE ASSUMED TO BE INCOMPLETE AND INCONCLUSIVE TO DETERMINE ENTIRE SCOPE OF WORK.
18. DESIGN AND EQUIPMENT PERFORMANCES ARE BASED ON THE EQUIPMENT SCHEDULED AND SPECIFIED HEREIN. ANY ALTERATIONS OR SUBSTITUTIONS OF ANY EQUIPMENT SHALL BE SUBMITTED, REVIEWED AND APPROVED BY THE ENGINEER OF RECORD PRIOR TO ORDERING OF EQUIPMENT.
19. PROVIDE LINE OR LOW VOLTAGE POWER WIRING FOR ALL CONTROLS. COORDINATE CONTROL SYSTEM POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR INCLUDING DAMPER MOTORS, CONTROL PANELS AND ALL DEVICES REQUIRING POWER. ALL WIRING AND COMPONENTS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE LATEST EDITION.
20. COORDINATE FINAL ELECTRICAL AMPERAGES AND VOLTAGES WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT.
21. PROVIDE NAIL PLATES AT ALL STUD PIPING PENETRATIONS.
22. AT PUBLIC-USE LAVATORIES, PROVIDE MIXING VALVE (WATTS LFMMV OR APPROVED EQUAL) TO LIMIT HOT WATER SUPPLY TEMPERATURE TO A MAXIMUM OF 120°F. PER 2016 CPC, SECTION 407.3. THE WATER HEATER THERMOSTAT SHALL NOT BE CONSIDERED A CONTROL FOR HOT WATER SUPPLY TEMPERATURE.
23. DRAWINGS, SPECIFICATIONS, NOTES AND CALCULATIONS ARE FOR PERMIT SUBMITTAL ONLY TO THE AUTHORITY HAVING JURISDICTION. PLANS ARE NOT INTENDED FOR CONSTRUCTION, BIDDING AND/OR ESTIMATING UNLESS STAMPED AND SIGNED BY A LICENSED MECHANICAL ENGINEER AND THIS NOTE IS REMOVED.
24. PROVIDE ALL CONTROL WIRING AND DEVICES AS REQUIRED FOR A COMPLETE AND WORKABLE SYSTEM. ALL WIRING AND DEVICES SHALL BE IN STRICT ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE. COORDINATE POWER REQUIREMENTS WITH ELECTRICAL SUBCONTRACTOR.

LOCAL CONNECTION SCHEDULE

Table with columns: TAG #, TYPE, SS, V, CW, HW, GAS, IW, REMARKS. Rows include: DRINKING FOUNTAIN, FLOOR DRAIN, URINAL, WATER CLOSET (TANK, ADA), WATER CLOSET (TANK), LAVATORY, HOSE BIBB.

- REMARKS:
1. ADA COMPLIANT.
2. FLOW FOR FIXTURE TO MEET MINIMUM CALGREEN REQUIREMENTS, REFER TO CALGREEN NOTES.
3. TRAP PRIMER CONNECTION.
4. REMOVEABLE KEY HANDLE.

DOMESTIC WATER PIPE SIZE

PIPE MATERIAL: TYPE "L" COPPER
PRESSURE LOSS: 5.0 PSI / 100 FT.

MAXIMUM WSFU ALLOWANCE TABLE

Table with columns: SIZE, FLUSH VALVE, FLUSH TANK (COLD WATER, HOT WATER). Rows for sizes 1/2", 3/4", 1", 1-1/4", 1-1/2", 2".

NOTE:
HOT WATER PIPING SHALL NOT EXCEED VELOCITY OF 5 FT/SEC AND COLD WATER PIPING SHALL NOT EXCEED VELOCITY OF 8 FT/SEC.

PIPE MATERIAL SCHEDULE

Table with columns: PIPE MATERIAL, ABOVE GRADE, BELOW GRADE. Rows for DOMESTIC WATER, NATURAL GAS, SANITARY SEWER VENT.

- 1. DOMESTIC WATER PIPING MATERIAL SHALL BE IN ACCORDANCE WITH STANDARDS AS LISTED WITHIN 2019 CPC, TABLE 604.1.
2. GAS PIPING MATERIAL SHALL BE IN ACCORDANCE WITH STANDARDS AS LISTED WITHIN 2019 CPC, SECTION 1208.6.
3. DRAIN, WASTE AND VENT PIPING MATERIAL SHALL BE IN ACCORDANCE WITH STANDARDS AS LISTED WITHIN 2019 CPC, TABLE 701.2.
4. MISCELLANEOUS FITTINGS, SOLVENTS, JOINING MATERIALS AND ALL OTHER PIPING COMPONENT MATERIAL SHALL BE IN ACCORDANCE WITH STANDARDS AS LISTED IN TABLE 1701.1.
5. BELOW GRADE DOMESTIC WATER PIPE SHALL CONFORM WITH ANSISF-61 STANDARDS AND BE UL LISTED

DESIGN ASSUMPTIONS/CRITERIA

- 1. DOMESTIC COLD WATER IS ASSUMED TO BE AT A TEMPERATURE OF ±60°F. CONTRACTOR SHALL FIELD VERIFY AND CONFIRM DOMESTIC WATER TEMPERATURE AT BUILDING MAIN PRIOR TO CONSTRUCTION.
2. HOT WATER DELIVERY SHALL BE AT A TEMPERATURE 120°F. DESIGNED WITH A 60°F TEMPERATURE RISE (WITH THE EXCEPTION OF PUBLIC LAVATORIES WHERE AN ASSE 1070 MIXING VALVE IS REQUIRED TO TEMPER THE WATER TO 105°F).
3. SANITARY SEWER PIPING SHALL SLOPE AT 1/4" PER FOOT IN THE DIRECTION OF FLOW UNLESS INDICATED OTHERWISE.
4. PENETRATIONS THROUGH FOOTINGS AND/OR FOUNDATIONS SHALL BE SLEEVED AND COORDINATED WITH THE STRUCTURAL ENGINEER OF RECORD.

SCOPE OF WORK

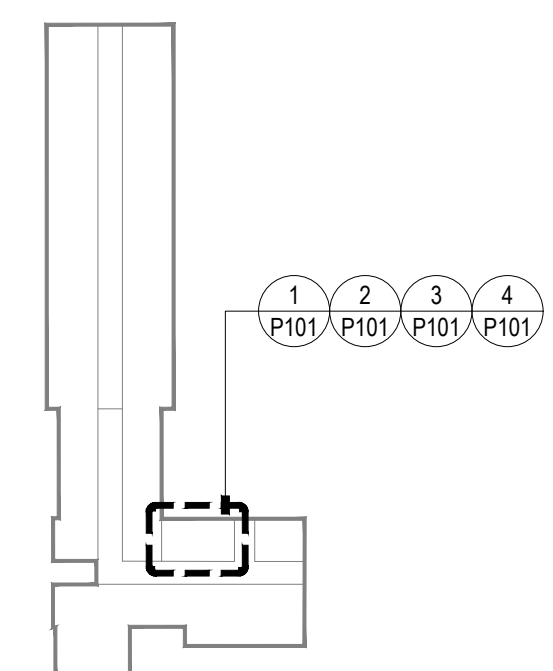
ADA REMODEL OF EXISTING RESTROOMS

DOCUMENT LIST

CONTRACTOR SHALL REVIEW ENTIRE CONSTRUCTION SET, INCLUDING, BUT NOT LIMITED TO ALL SPECIFICATIONS, DRAWINGS, PROJECT MANUAL, CALCULATIONS AND CUT-SHEETS. ADDITIONAL LIST OF DOCUMENTS AND DRAWINGS CONTAINED HEREIN, INCLUDE:
P0.01 PLUMBING NOTES, LEGEND, SCHEDULES AND ABBREVIATIONS
P1.01 PLUMBING PLANS

KEP PLAN

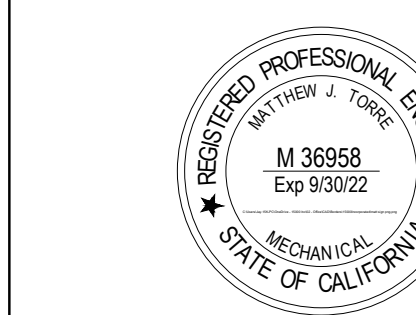
NOT TO SCALE



REVISION SCHEDULE

Table with columns: NO., DESCRIPTION, DATE. Empty rows.

SEAL:



CONSULTANT:



BrokawDesign

P.O. BOX 3103
ROHNERT PARK, CA 94927
WWW.BROKAWDESIGN.COM

PROJECT:

CLARK COMPLEX
ACCESSIBILITY
MODIFICATIONS

3039 HARRIS STREET
EUREKA, CA 95501

SHEET NAME:

PLUMBING
NOTES, LEGEND
AND SCHEDULES

ISSUE DATE: 7/21/2022

PREPARATION AND REVIEW

DRAWN BY: VM/JMT

DESIGNER: JMT

PROJ MGR:

PEER REVIEW: MJT

SHEET NUMBER:

P101

PROJECT STATUS:

1

2

3

4

5

SHEET NOTES: DEMO

- ① REMOVE EXISTING WATER CLOSET IN ITS ENTIRETY. PREPARE AREA FOR CONNECTION AND INSTALLATION OF NEW FIXTURE. SAW CUT AS REQUIRED FOR INSTALLATION OF NEW FIXTURES AND CAP AND CONCEAL ALL ABANDONED PIPING AS CLOSE AS POSSIBLE TO LIVE MAIN.
- ② REMOVE EXISTING LAVATORY COMPLETELY. PREPARE AREA FOR CONNECTION TO NEW FIXTURE. SAW CUT AS REQUIRED FOR INSTALLATION OF NEW FIXTURES AND CAP AND CONCEAL ALL ABANDONED PIPING AS CLOSE AS POSSIBLE TO LIVE MAIN.
- ③ PRESERVE EXISTING 4" SANITARY SEWER LOCATION FOR FUTURE CONNECTION.

SHEET NOTES: DEMO

- ① REMOVE EXISTING WATER CLOSET IN ITS ENTIRETY. PREPARE AREA FOR CONNECTION AND INSTALLATION OF NEW FIXTURE. REMOVE WATER PIPING TO AS CLOSE TO AS POSSIBLE TO LIVE MAIN.
- ② REMOVE EXISTING LAVATORY COMPLETELY. PREPARE AREA FOR CONNECTION TO NEW FIXTURE. REMOVE WATER PIPING TO AS CLOSE AS POSSIBLE TO LIVE MAIN.
- ③ REMOVE (E) DOMESTIC WATER DISTRIBUTION PIPING RELATED TO ADA RESTROOM REMODEL. REFER TO REMODEL PLANS FOR ADDITIONAL INFORMATION.
- ④ PRESERVE EXISTING 2" DOMESTIC WATER LOCATION FOR FUTURE CONNECTION.

REVISION SCHEDULE

NO.	DESCRIPTION	DATE



CONSULTANT:

15000 inc.
heating, ventilation, air conditioning + plumbing design and engineering
6085 STATE FARM DR. #130 phone: 707.577.0363
ROHNERT PARK, CA 94928 fax: 707.577.0364

BrokawDesign
P.O. BOX 3103
ROHNERT PARK, CA 94927
WWW.BROKAWDESIGN.COM

PROJECT:

**CLARK COMPLEX
ACCESSIBILITY
MODIFICATIONS**

3039 HARRIS STREET
EUREKA, CA 95501

SHEET NAME:

**DEMO, HVAC
AND PLUMBING
PLANS**

ISSUE DATE:	7/21/2022
PREPARATION AND REVIEW	
DRAWN BY:	VM/JMT
DESIGNER:	JMT
PROJ MGR:	
PEER REVIEW:	MJT
SHEET NUMBER:	

P101

PROJECT STATUS:

A

A

B

B

C

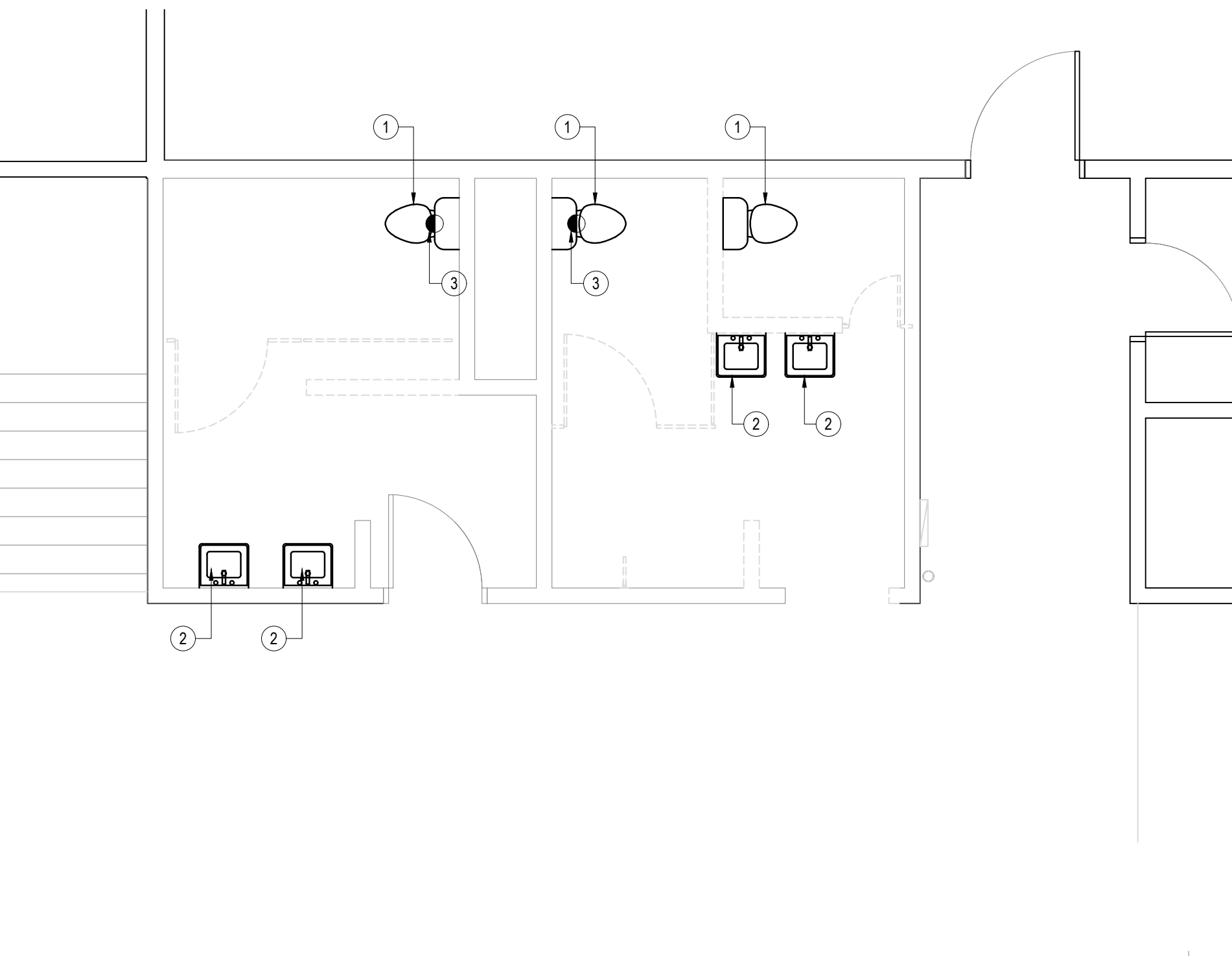
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D

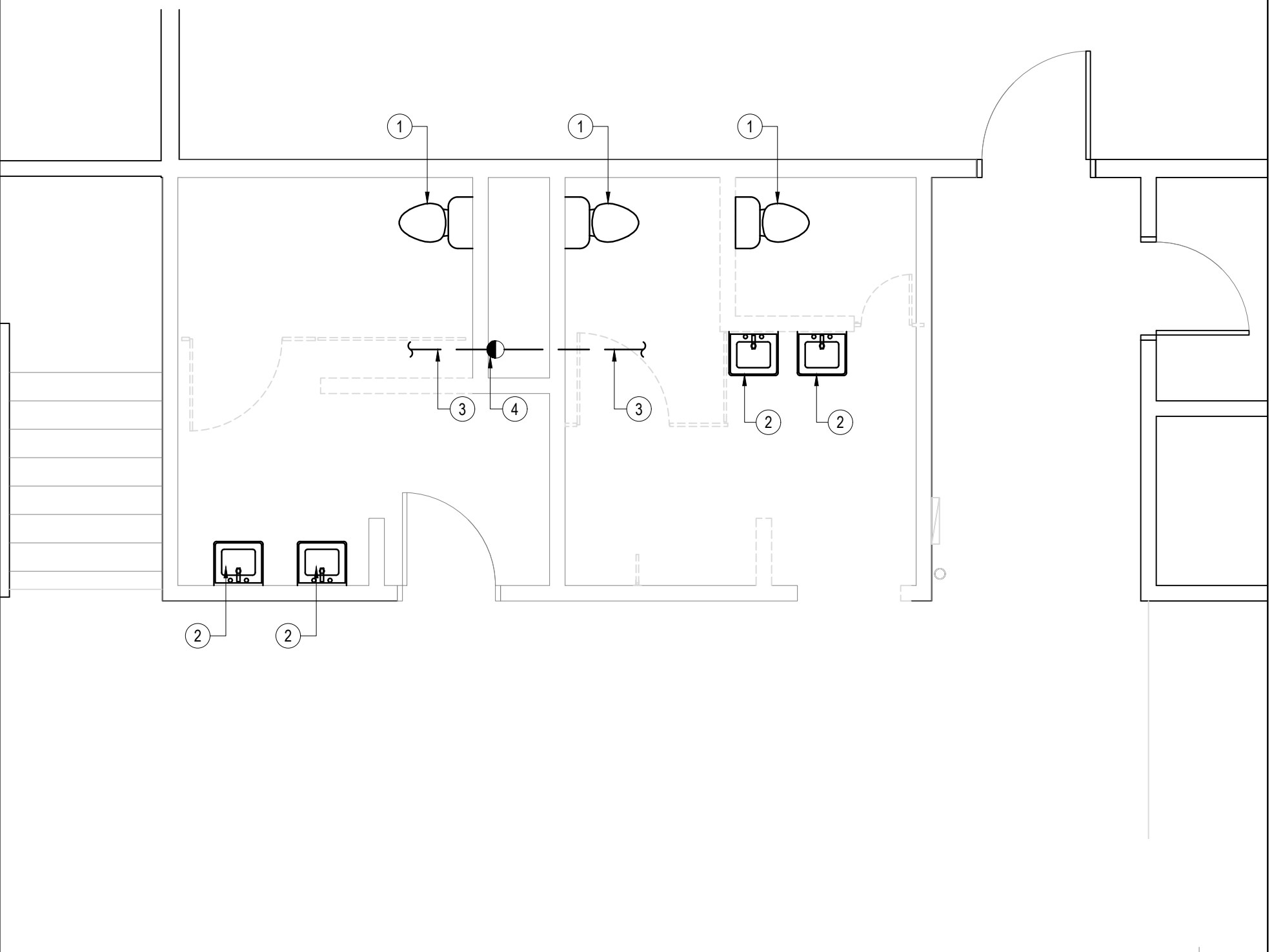
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E



1 PARTIAL DEMOLITION PLAN
SCALE: 1/4"=1'-0"



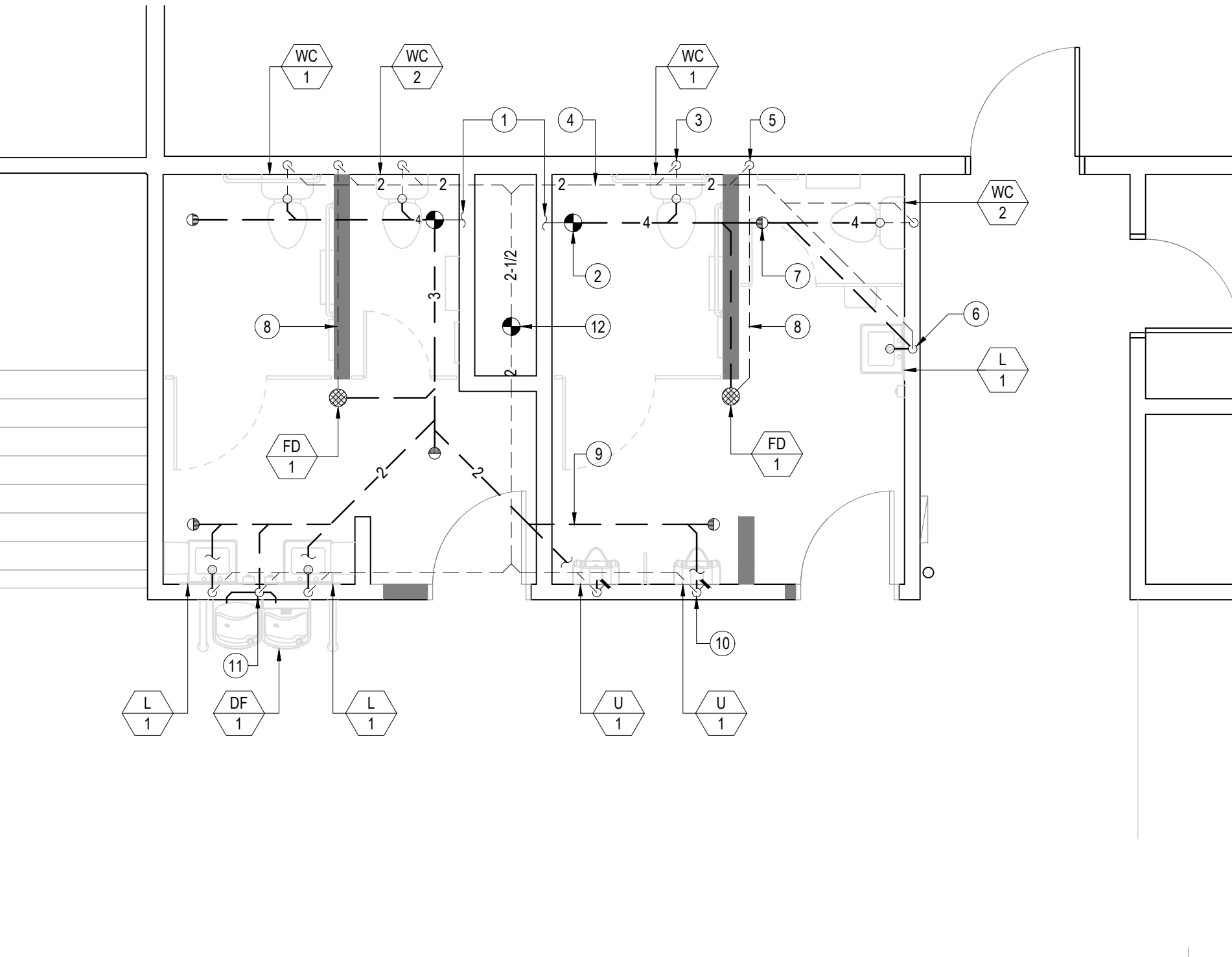
2 PARTIAL DEMOLITION PLAN
SCALE: 1/4"=1'-0"

SHEET NOTES: DWV

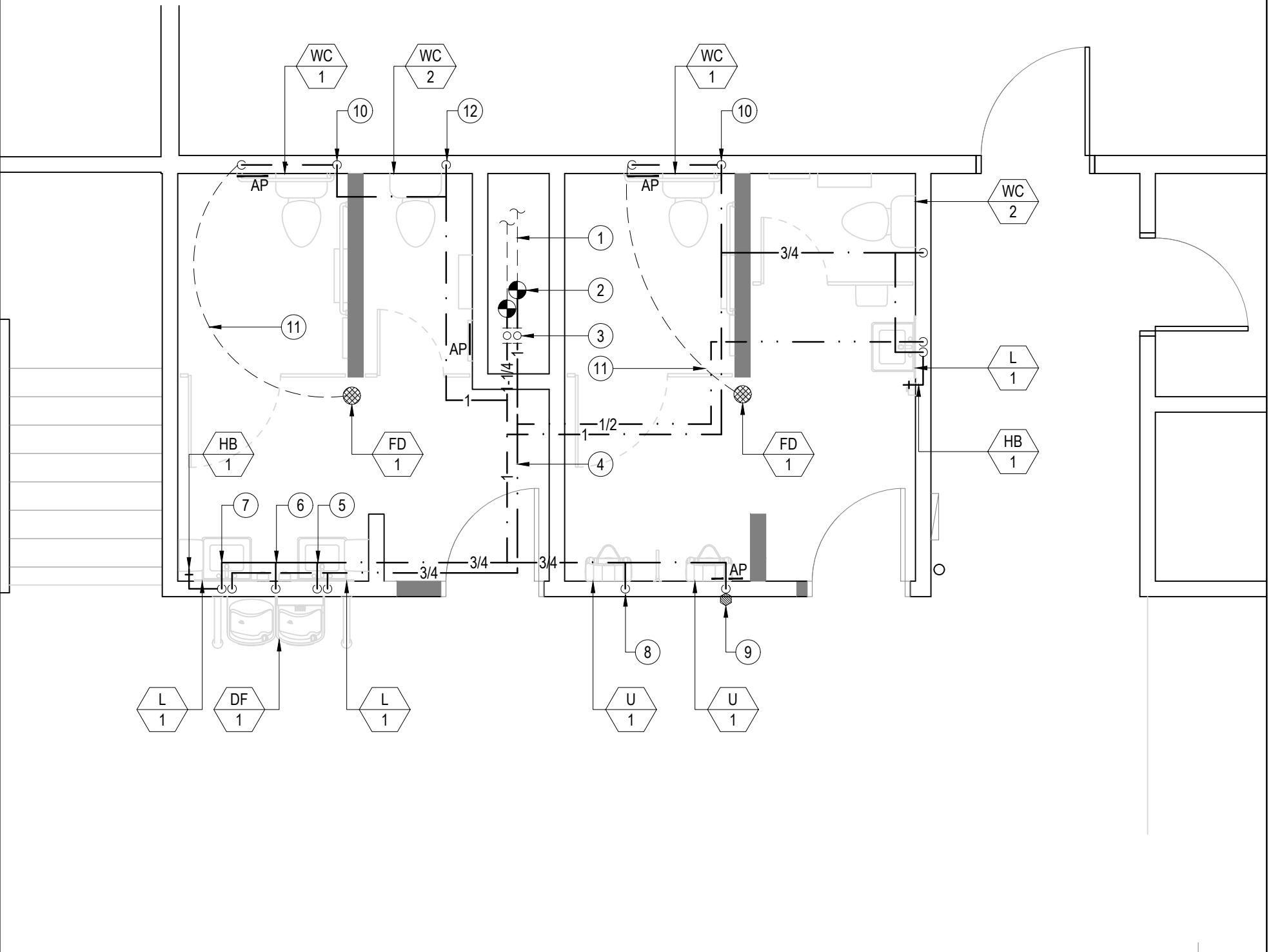
- ① EXISTING SANITARY SEWER BELOW GRADE. VERIFY LOCATION, INVERT ELEVATION AND SIZE PRIOR TO CONSTRUCTION.
- ② CONNECT TO EXISTING SANITARY SEWER BELOW GRADE. PROVIDE OFFSETS AS REQUIRED AND SAWCUT SLAB AS REQUIRED (NOT SHOWN).
- ③ 4" SS DOWN, 2" VENT UP TO AFC. PROVIDE FINAL CONNECTION AND OFFSET AS REQUIRED.
- ④ VENT PIPING ABOVE FURRED CEILING UNLESS OTHERWISE NOTED.
- ⑤ 1-1/2" VENT UP FROM BELOW GRADE.
- ⑥ 1-1/2" SS DOWN, 1-1/4" VENT UP TO AFC. PROVIDE FINAL CONNECTION AND OFFSET AS REQUIRED.
- ⑦ FLOOR CLEANOUT, TYPICAL WHERE OCCURS.
- ⑧ VENT PIPING BELOW GRADE.
- ⑨ SANITARY SEWER PIPING BELOW GRADE.
- ⑩ 2" SS DOWN, 1-1/2" VENT UP TO AFC. PROVIDE WALL CLEANOUT. PROVIDE FINAL CONNECTION AND OFFSET AS REQUIRED - TYPICAL WHERE OCCURS.
- ⑪ 2" SS DOWN, 1-1/2" VENT UP TO AFC. PROVIDE FINAL CONNECTION AND OFFSET AS REQUIRED.
- ⑫ CONNECT VENT PIPING ABOVE CEILING TO EXISTING. VERIFY LOCATION AND SIZE PRIOR TO CONSTRUCTION.

SHEET NOTES: DW

- ① EXISTING COLD/HOT WATER WITHIN PLUMBING WALL. VERIFY LOCATION AND SIZE PRIOR TO CONSTRUCTION.
- ② CONNECT TO EXISTING UTILITIES AS REQUIRED, PROVIDE OFFSETS AS NECESSARY.
- ③ PROVIDE SHUT OFF VALVE FOR RESTROOM GROUP. PROVIDE ACCESS PANEL (ACCESS PANEL TO MATCH RATING OF ASSEMBLY, TYPICAL)
- ④ PIPING ABOVE CEILING UNLESS OTHERWISE NOTED.
- ⑤ 1/2" CW/HW DOWN TO L-1, TYPICAL WHERE OCCURS.
- ⑥ 1/2" CW DOWN TO DF-1.
- ⑦ 1/2" CW/HW DOWN TO L-1, OFFSET 1/2" FOR HB-1, TYPICAL WHERE OCCURS.
- ⑧ 3/4" CW DOWN TO U-1, TYPICAL WHERE OCCURS.
- ⑨ 3/4" CW DOWN TO U-1 WITH WATER HAMMER ARRESTOR LOCATED AT TOP OF RISER. PROVIDE ACCESS PANEL.
- ⑩ 3/4" CW DOWN TO WATER CLOSET. OFFSET 1/2" FOR TRAP PRIMER VALVE LOCATED 24" A.F.F. AND PROVIDE ACCESS PANEL.
- ⑪ 1/2" CROSS-POLYETHYLENE (PEX) PIPING BELOW GRADE, NO JOINTS ALLOWED.
- ⑫ 3/4" DOWN TO WATER CLOSET.



3 PARTIAL PLUMBING PLAN - DRAIN, WASTE AND VENT
SCALE: 1/4"=1'-0"



4 PARTIAL PLUMBING PLAN - DOMESTIC WATER
SCALE: 1/4"=1'-0"

1

2

3

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5

ANCHORAGE & BRACING NOTES

M/E/P Component Anchorage Note

All mechanical, plumbing, and electrical components shall be anchored and installed per the details on the DSA approved construction documents. The following components shall be anchored or braced to meet the force and displacement requirements prescribed in the 2019 CBC Sections 1617A.1.18 through 1617A.1.26 and ASCE 7-16 Chapter 13, 26 and 30.

- All permanent equipment and components.
- Temporary, movable or mobile equipment that is permanently attached (e.g. hard wired) to the building utility services such as electricity, gas or water. "Permanently attached" shall include all electrical connections except plugs for 110/220 volt receptacles having a flexible cable.
- Temporary, movable or mobile equipment which is heavier than 400 pounds or has a center of mass located 4 feet or more above the adjacent floor or roof level that directly support the component is required to be restrained in a manner approved by DSA.

The following mechanical and electrical components shall be positively attached to the structure but need not demonstrate design compliance with the references noted above. These components shall have flexible connections provided between the component and associated ductwork, piping, and conduit. Flexible connections must allow movement in both transverse and longitudinal directions:

- Components weighing less than 400 pounds and have a center of mass located 4 feet or less above the adjacent floor or roof level that directly support the component.
- Components weighing less than 20 pounds, or in the case of distributed systems, less than 5 pounds per foot, which are suspended from a roof or floor or hung from a wall.

The anchorage of all mechanical, electrical and plumbing components shall be subject to the approval of the design professional in general responsible charge or structural engineer delegated responsibility and acceptance by DSA. The project inspector will verify that all components and equipment have been anchored in accordance with the above requirements.

Piping, Ductwork, and Electrical Distribution System Bracing Note

Piping, ductwork, and electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7-16 Section 13.3 as defined in ASCE 7-16 Section 13.6.5, 13.6.6, 13.6.7, 13.6.8, and 2019 CBC, Sections 1617A.1.24, 1617A.1.25, and 1617A.1.26.

The method of showing bracing and attachments to the structure for the identified distribution system are as noted below. When bracing and attachments are based on a preapproved installation guide (e.g., OSHPD OPM for 2013 CBC or later), copies of the bracing system installation guide or manual shall be available on the jobsite prior to the start of and during the hanging and bracing of the distribution systems. The Structural Engineer of Record shall verify the adequacy of the structure to support the hanger and brace loads.

Mechanical Piping (MP), Mechanical Ducts (MD), Plumbing Piping (PP), Electrical Distribution Systems (E):

MP □ MD □ PP □ E ■ - Option 1: Detailed on the approved drawings with project specific notes and details.

MP □ MD □ PP □ E □ - Option 2: Shall comply with the applicable OSHPD Pre-Approval (OPM#) # _____.

APPLICABLE CODES & STANDARDS REFERENCES

PARTIAL LIST OF APPLICABLE CODES AS OF January 1, 2020*

- 2019 California Administrative Code (CAC), Part 1, Title 24 CCR*
- 2019 California Building Code (CBC), Part 2, Title 24 CCR (2018 International Building Code, Vol. 1 & 2, and 2019 California amendments)
- 2019 California Electrical Code (CEC), Part 3, Title 24 CCR (2017 National Electrical Code and 2019 California Amendments)
- 2019 California Mechanical Code (CMC), Part 4, Title 24 CCR (2018 IAPMO Uniform Mechanical Code and 2019 California amendments)
- 2019 California Plumbing Code (CPC), Part 5, Title 24 CCR (2018 IAPMO Uniform Plumbing Code and 2019 California amendments)
- 2019 California Energy Code (CEC), Part 6, Title 24 CCR
- 2019 California Fire Code (CFC), Part 9, Title 24 CCR (2018 International Fire Code and 2019 California Amendments)
- 2019 California Existing Building Code (CEBC), Part 10, Title 24 CCR (2018 International Existing Building Code and 2019 California Amendments)
- 2019 California Green Building Standards Code (CALGreen), Part 11, Title 24 CCR
- 2019 California Referenced Standards Code, Part 12, Title 24 CCR Title 19 CCR, Public Safety, State Fire Marshal Regulations
- 2016 ASME A17.1/CSA B44-13 Safety Code for Elevators and Escalators (per 2019 CBC Part 2 Ch 35)

PARTIAL LIST OF APPLICABLE STANDARDS

- NFPA 13 - Standard for the Installation of Sprinkler Systems (CA amended).....2016 Edition
- NFPA 14 - Standard for the Installation of Standpipe and Hose Systems (CA amended).....2016 Edition
- NFPA 17 - Standard for Dry Chemical Extinguishing Systems.....2017 Edition
- NFPA 17A - Standard for Wet Chemical Extinguishing Systems.....2017 Edition
- NFPA 20 - Standard for the Installation of Stationary Pumps for Fire Protection.....2016 Edition
- NFPA 22 - Standard for Water Tanks for Private Fire Protection.....2013 Edition
- NFPA 24 - Standard for the Installation of Private Fire Service Mains and Their Appurtenances (CA amended).....2016 Edition
- NFPA 72 - National Fire Alarm and Signaling Code (CA amended).....2016 Edition
- NFPA 80 - Standard for Fire Doors and Other Opening Protectives.....2016 Edition
- NFPA 2001 - Standard on Clean Agent Fire Extinguishing Systems (CA amended).....2015 Edition
- UL 300 - Standard for Fire Testing of Fire Extinguishing Systems for Protection of Commercial Cooking Equipment.....2005 (R2010)
- UL 464 - Audible Signaling Devices for Fire Alarm and Signaling Systems, Including Accessories.....2003 Edition
- UL 521 - Standard for Heat Detectors for Fire Protective Signaling Systems.....1999 Edition
- UL 1971 - Standard for Signaling Devices for the Hearing Impaired.....2002 (R2010)
- ICC 300 - Standard for Bleachers, Folding and Telescopic Seating, and Grandstands.....2017 Edition

For a complete list of applicable NFPA standards refer to 2019 CBC (SFM) Chapter 35 and California Fire Code Chapter 80.

See California Building Code Chapter 35 for State of California amendments to the NFPA Standards.

*All parts of the 2019 California Building Code become effective January 1, 2020 except the effective date for the use of the 2019 Building Energy Efficiency Standards (Title 24, Part 1, Chapter 10) is January 8, 2019 and the effective date for the use of the California Administrative Code (Title 24, Part 1, Chapter 4) is January 8, 2019.

ELECTRICAL DEVICES

- JUNCTION BOX - WALL MOUNTED +18" A.F.F. U.O.N.
- JUNCTION BOX - FLOOR MOUNTED
- JUNCTION BOX - CEILING MOUNTED
- POWER OUTLET, DUPLEX - WALL MOUNTED +18" A.F.F. U.O.N.
- POWER OUTLET, DEDICATED DUPLEX - WALL MOUNTED +18" A.F.F. U.O.N.
- POWER OUTLET, SWITCHED DUPLEX - +18" A.F.F. U.O.N.
- POWER OUTLET, FOURPLEX - WALL MOUNTED +18" A.F.F. U.O.N.
- POWER OUTLET, DEDICATED FOURPLEX - WALL MOUNTED +18" A.F.F. U.O.N.
- POWER OUTLET, SIMPLEX - WALL MOUNTED +18" A.F.F. U.O.N.
- POWER OUTLET, DUPLEX - FLOOR MOUNTED, FLUSH LID U.O.N.
- POWER OUTLET, DEDICATED DUPLEX - FLOOR MOUNTED, FLUSH LID U.O.N.
- POWER OUTLET, FOURPLEX - FLOOR MOUNTED, FLUSH LID U.O.N.
- POWER OUTLET, DEDICATED FOURPLEX - FLOOR MOUNTED, FLUSH LID U.O.N.
- POWER OUTLET, DUPLEX - CEILING MOUNTED
- POWER OUTLET, DEDICATED DUPLEX - CEILING MOUNTED
- POWER OUTLET, FOURPLEX - CEILING MOUNTED
- POWER OUTLET, DEDICATED FOURPLEX - CEILING MOUNTED

NOTE: ALL 15- AND 20-AMPERE, 125- AND 250-VOLT NON-LOADING-TYPE RECEPTACLES IN PRESCHOOLS AND ELEMENTARY EDUCATION FACILITIES SHALL BE TAMPER-RESISTANT TYPE

CONTROLS

- SWITCH, SINGLE CONTROL - WALL MOUNTED +42" A.F.F. U.O.N.
- SWITCH, 3-WAY CONTROL - WALL MOUNTED +42" A.F.F. U.O.N.
- SWITCH, 4 WAY CONTROL - WALL MOUNTED +42" A.F.F. U.O.N.
- SWITCH, MOTOR RATED - NOTED MOUNTING
- SWITCH, DIMMER CONTROL - WALL MOUNTED +42" A.F.F. U.O.N.
- SWITCH, DIMMER WITH VACANCY CONTROL - WALL MOUNTED +42" A.F.F. U.O.N.
- SWITCH, VACANCY CONTROL - SINGLE POLE - WALL MTD +42" A.F.F. U.O.N.
- SWITCH, VACANCY CONTROL - DUAL POLE - WALL MOUNTED +42" A.F.F. U.O.N. (FAN CONTROL SHALL BE PROVIDED WITH TIME DELAY)
- LV SWITCH, UP TO FOUR ZONES, EACH WITH ON/OFF AND DIMMER CONTROL - WALL MOUNTED +42" A.F.F. U.O.N.
- LV SCENE SWITCH - WALL MOUNTED +42" A.F.F. U.O.N. (NUMBER OF SCENE BUTTONS AS INDICATED)
- LV MASTER CONTROL - WALL MOUNTED +42" A.F.F. U.O.N.
- LV VACANCY SENSOR CONTROL - CEILING MOUNTED
- LV DAYLIGHTING SENSOR CONTROL - DUAL ZONE - CEILING MOUNTED
- PLUG LOAD CONTROLLER - MOUNT IN ACCESSIBLE LOCATION
- ROOM LIGHTING CONTROLLER - MOUNT IN ACCESSIBLE LOCATION (NUMBER OF ZONES AS INDICATED)
- SWITCH, PHOTO CELL
- ASTRONOMICAL TIME CLOCK

LOW VOLTAGE

- CEILING SPEAKER
- WALL MOUNTED SPEAKER: +96" A.F.F. U.O.N., 3/4" CONDUIT STUBBED INTO ACCESSIBLE SPACE ABOVE CEILING
- WP EXTERIOR SPEAKER: +96" A.F.F. U.O.N., 3/4" CONDUIT STUBBED INTO ACCESSIBLE SPACE ABOVE CEILING
- SPEAKER/ CLOCK: +96" A.F.F. U.O.N., 1" CONDUIT STUBBED INTO ACCESSIBLE SPACE ABOVE CEILING

- DATA OUTLET - WALL MOUNTED +18" A.F.F.
- DATA OUTLET - NOTED MOUNTED
- DATA OUTLET FOR EXTERIOR WIRELESS ACCESS POINT, +10'-0" A.F.F.
- VOICE/DATA OUTLET - WALL MOUNTED +18" A.F.F.
- VOICE/DATA OUTLET - NOTED MOUNTING
- VOICE OUTLET - WALL MOUNTED +18" A.F.F.
- VOICE OUTLET - +48" A.F.F. TO CENTER WITH PHONE MOUNT KEYSTONE WALL PLATE, SINGLE GANG, 1-PORT STAINLESS STEEL
- DATA OUTLET - FLOOR MOUNTED
- VOICE OUTLET - FLOOR MOUNTED
- VOICE/DATA OUTLET - FLOOR MOUNTED
- DATA OUTLET - CEILING MOUNTED
- DATA OUTLET - CEILING MOUNTED FOR WIRELESS ACCESS POINT.
- TV OUTLET, WALL MOUNTED +18" A.F.F., U.O.N., 3/4" CONDUIT STUBBED INTO ACCESSIBLE SPACE ABOVE CEILING

4-GANG IN-WALL AVV CONNECTION ENCLOSURE (HUBBELL #NSAV124M) WITH (1) RECEPTACLE POWER KIT MOUNTED AT +60" AT FLAT PANEL LOCATION. PROVIDE 1" CONDUIT TO ACCESSIBLE CEILING SPACE

SECURITY

- SECURITY MOTION SENSOR: +84" AFF TO TOP OF SINGLE GANG BOX, 3/4" CONDUIT STUBBED TO ACCESSIBLE SPACE ABOVE CEILING
- INTRUSION ALARM KEYPAD: +44" TO TOP OF SINGLE GANG BOX, 3/4" CONDUIT STUBBED TO ACCESSIBLE SPACE ABOVE CEILING
- SINGLE GANG BOX FOR SECURITY CAMERA: 3/4" CONDUIT TO ACCESSIBLE SPACE ABOVE CEILING, MOUNT HIGH ON WALL, VERIFY BOX LOCATIONS AND HEIGHTS WITH DISTRICT PRIOR TO ROUGH-IN
- SECURITY DOOR CONTACT: 1/2" CONDUIT FROM DOOR FRAME STUBBED TO ACCESSIBLE SPACE ABOVE CEILING

CIRCUITING

- CIRCUIT - CONCEALED
- CIRCUIT - EXPOSED
- CIRCUIT - UNDER FLOOR, GROUND OR SLAB
- CIRCUIT - HOME RUN
- CIRCUIT - STUB OUT
- CIRCUIT - STUB DOWN
- CIRCUIT - STUB UP
- CIRCUIT - COMPLETE CONNECTION

EQUIPMENT

- DISCONNECT, NON-FUSED
- DISCONNECT, WITH FUSE
- STARTER, NON-FUSED
- STARTER, WITH FUSE
- DIVISION 15 FAN
- STARTER, WITH CIRCUIT BREAKER
- PANELBOARD FLUSH
- PANELBOARD SURFACE
- ENCLOSURE FLUSH
- ENCLOSURE SURFACE
- DISTRIBUTION BOARD
- METER SECTION
- MOTOR
- MTTB
- SITE PULL BOX / VAULT

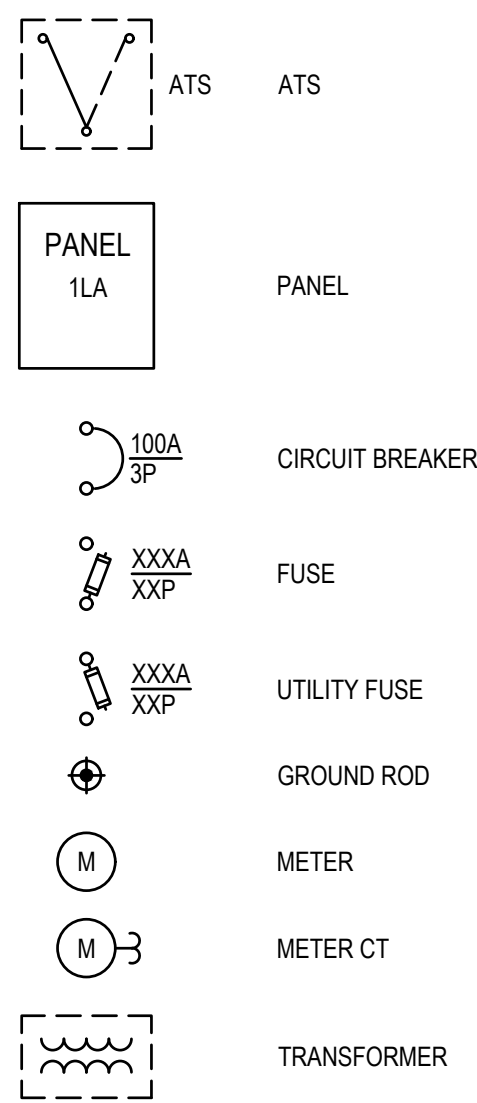
LIGHT FIXTURES

- LIGHT FIXTURE, 1 x 4 - PENDANT MOUNTED
- LIGHT FIXTURE, 1 x 8 - PENDANT MOUNTED
- LIGHT FIXTURE, 1 x 4 - RECESSED MOUNTED
- LIGHT FIXTURE, 1 x 8 - RECESSED MOUNTED
- LIGHT FIXTURE, 1 x 4 - SURFACE MOUNTED
- LIGHT FIXTURE, 1 x 8 - SURFACE MOUNTED
- LIGHT FIXTURE, 2 x 2 - RECESSED MOUNTED
- LIGHT FIXTURE, 2 x 4 - RECESSED MOUNTED
- LIGHT FIXTURE, 2 x 2 - SURFACE MOUNTED
- LIGHT FIXTURE, 2 x 4 - SURFACE MOUNTED
- LIGHT FIXTURE, 4' STRIP - SURFACE MOUNTED
- LIGHT FIXTURE, 8' STRIP - SURFACE MOUNTED
- LIGHT FIXTURE, EXIT WITH EGRESS - WALL/CEILING MOUNTED
- LIGHT FIXTURE, EGRESS - WALL MOUNTED
- LIGHT FIXTURE, EXIT DOUBLE FACE - CEILING MOUNTED
- LIGHT FIXTURE, EXIT DOUBLE FACE - WALL MOUNTED
- LIGHT FIXTURE, EXIT SINGLE FACE - CEILING MOUNTED
- LIGHT FIXTURE, EXIT SINGLE FACE - WALL MOUNTED
- LIGHT FIXTURE - PENDANT MOUNTED
- LIGHT FIXTURE - RECESSED MOUNTED
- LIGHT FIXTURE, WALL WASH - RECESSED MOUNTED
- LIGHT FIXTURE - SURFACE MOUNTED
- LIGHT FIXTURE - WALL MOUNTED
- LIGHT FIXTURE - POLE MOUNTED
- LIGHT FIXTURE, NO ARM - POLE MOUNTED OR BOLLARD

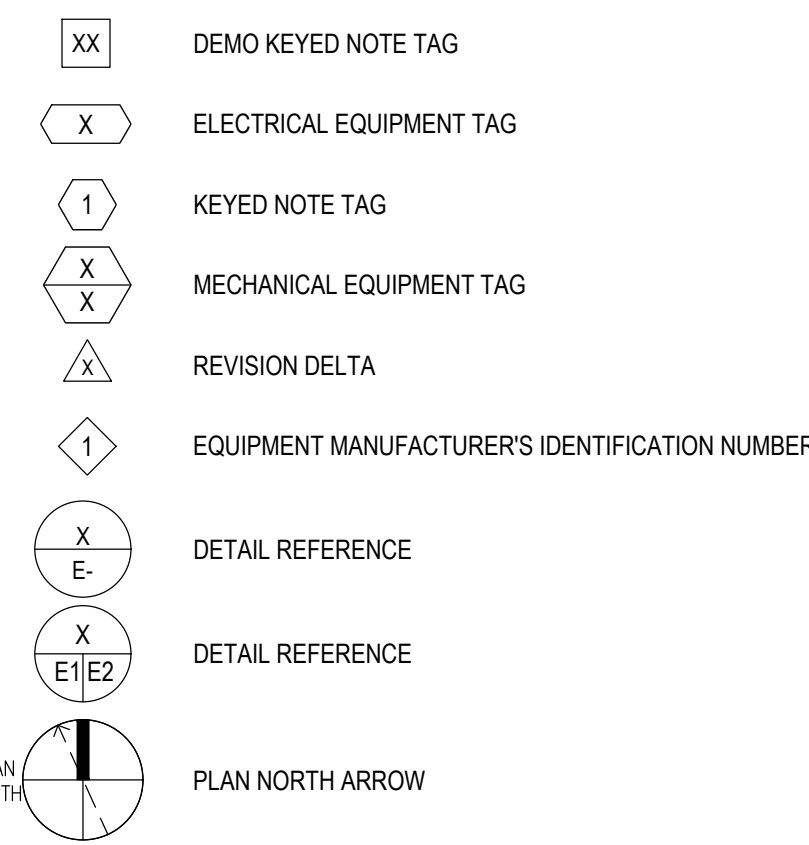
ADA REQUIREMENTS

- ALL HEIGHTS CALLED OUT ON PLANS ARE TO CENTERLINE OF DEVICE, U.O.N.
- FOLLOW ALL ADA REQUIREMENTS FOR DEVICE MOUNTING:
 - MAX UNOBSTRUCTED FORWARD REACH 48-INCHES TO TOP OF DEVICE.
 - MIN UNOBSTRUCTED FORWARD REACH 15-INCHES TO BOTTOM OF DEVICE.
 - MAX OBSTRUCTED FORWARD REACH 44-INCHES TO TOP OF DEVICE.
 - MAX OBSTRUCTED SIDE REACH 46-INCHES TO TOP OF DEVICE.

DIAGRAMS



MISCELLANEOUS



ABBREVIATIONS

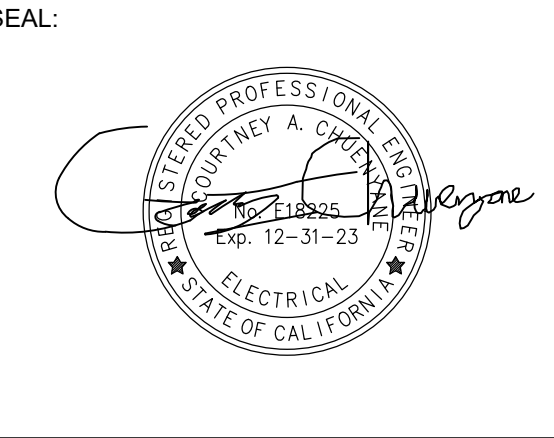
A	AMPERES	HVAC	HEATING, VENTILATION & AIR-COND.
AC	ALTERNATING CURRENT	IG	ISOLATED GROUND
A.F.F.	ABOVE FINISHED FLOOR	IMC	INTERMEDIATE METAL CONDUIT
AFG	ABOVE FINISHED GRADE	JB	JUNCTION BOX
AHJ	AUTHORITY HAVING JURISDICTION	KV	KILO VOLT
AHU	AIR HANDLING UNIT	KVA	KILO VOLT-AMP
AL	ALUMINIUM	KW	KILO WATT
ANN	ANNUNCIATOR	LV	LOW VOLTAGE
APPROX	APPROXIMATE	MAX	MAXIMUM
ARF	ABOVE RAISED FLOOR	MC	METAL-CLAD
AWG	AMERICAN WIRE GAUGE	MCC	MOTOR CONTROL CENTER
BAT	BATTERY	MFR, MFRG	MANUFACTURER
BFG	BELOW FINISH GRADE	MIC	MICROPHONE
C, CND	CONDUIT	MIN	MINIMUM
CB	CIRCUIT BREAKER	MDP	MAIN DISTRIBUTION BOARD
CKT	CIRCUIT	MSB	MAIN SWITCHBOARD
CO	CONDUIT ONLY	MTD	MOUNTED
COMM	COMMUNICATIONS	(N)	NEW
CONST	CONSTRUCTION	N, NEUT	NEUTRAL
CONT	CONTINUED	N/A	NOT APPLICABLE
CP	CONTROL PANEL	NC	NORMALLY CLOSED
CPT	CONTROL POWER TRANSFORMER	NIC	NOT IN CONTRACT
CT	CURRENT TRANSFORMER	NO	NORMALLY OPEN
CU	COPPER	NTS	NOT TO SCALE
DC	DIRECT CURRENT	OC	ON CENTER
DWG	DRAWING	PNL	PANEL
(E)	EXISTING	PVC	POLYVINYL CHLORIDE
E/A	EACH	PB	PULL BOX, ELECTRICAL
EF	EXHAUST FAN	REQD	REQUIRED
EMT	ELECTRICAL METALLIC CONDUIT	RGS, RSG	RIGID GALVANIZED STEEL
ENT	ELECTRICAL NON-METALLIC CONDUIT	RTU	REMOTE TERMINAL UNIT
EP	EXPLOSION PROOF	SP	SPACE, SPARE
EQ	EQUAL	SS	STAINLESS STEEL
EVACS	EMERGENCY VOICE & COMMUNICATIONS SYSTEM	SW	SWITCH
(F)	FUTURE	SWBD	SWITCHBOARD
FA	FIRE ALARM	SWGR	SWITCHGEAR
FACP	FIRE ALARM CONTROL PANEL	TP	TAMPER PROOF
FC	FAN COIL	TYP	TYPICAL
G, GND	GROUND	UF	UNDER FLOOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	UG	UNDER GROUND
GFI	GROUND FAULT INTERRUPTER	U.O.N.	UNLESS OTHERWISE NOTED
HV	HIGH VOLTAGE	V	VOLT
		VA	VOLT-AMP
		W/O	WITHOUT
		WP	WEATHER PROOF
		XFMR	TRANSFORMER

ELECTRICAL SHEET INDEX

E001	ELECTRICAL LEGEND AND ABBREVIATIONS
E002	ELECTRICAL SHEET SPECIFICATIONS
E101	ELECTRICAL PLAN

REVISION SCHEDULE

NO.	DESCRIPTION	DATE



CONSULTANT:

BrokawDesign
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PROJECT:
**CLARKE CENTER
 ACCESSIBILITY
 MODIFICATIONS**

720 WOOD STREET
 EUREKA, CA 95502

SHEET NAME:
**ELECTRICAL
 LEGEND AND
 ABBREVIATIONS**

ISSUE DATE:	06-12-2022
PREPARATION AND REVIEW	
DRAWN BY:	MOB
DESIGNER:	MOB
PROJ.MGR:	CLB
PEER REVIEW:	CAC

SHEET NUMBER:
E001

PROJECT STATUS:

ELECTRICAL SPECIFICATIONS 26 00 00

1.01- RELATED DOCUMENTS
A. The General Conditions, Supplementary Conditions and Division 1 apply to the electrical work.

1.02 - WORK INCLUDES
A. Work included in this section: All materials, labor, equipment, services, and incidentals necessary to install the Electrical Work as shown on the drawings and as specified hereinafter, including, but not limited to the following:
1. Branch circuit wiring, wiring devices and connections to all equipment requiring electrical service.
2. Lighting fixtures with hangers, anchors and supports. Lighting Controls.
3. Electrical equipment grounding system.
4. Mechanical equipment power and control connections as stated in the mechanical and electrical specifications and as shown on the mechanical and electrical drawings.
5. Sleeves, inserts and blocking in cast concrete as required for work in this section.
6. All required incidental work, such as excavating and backfilling, roof flashing, and testing.
7. Any other electrical work as might reasonably be implied as required, even though not specifically mentioned herein or shown on the drawings.

1.03 - INCORPORATED DOCUMENTS
A. Requirements of the General Conditions, Supplementary Conditions, and Division 1. Sections apply to all work in this Section, unless modified herein.
B. Published specifications, standard tests or recommended methods of trade, industry or government organizations apply to work of this Section where cited by abbreviations noted below, unless modified herein.

1. National Electrical Code, latest edition, (NEC).
2. NEMA standards
3. Underwriters' Laboratories, Inc. (UL).
4. Local Utility Company regulations.
5. National Fire Protection Association (NFPA)
6. California Administrative Code (CAC)
C. All State and Municipal Codes and Ordinances recognized by the Authority Having Jurisdiction, including but not limited to:
1. Latest Edition - BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE C.C.R.
2. Latest Edition - CALIFORNIA BUILDING CODE (CBR), PART 2, TITLE 24 C.C.R.
3. Latest Edition - CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
4. Latest Edition - CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.
5. Latest Edition - CALIFORNIA HISTORICAL BUILDING CODE, PART 8, TITLE 24 C.C.R.
6. Latest Edition - CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.
7. Latest Edition - CALIFORNIA REFERENCE STANDARDS, PART 12, TITLE 24 C.C.R.
8. Latest Edition - TITLE 19 C.C.R.

1.05 - QUALITY ASSURANCE
A. Conformance:
1. All work shall conform to the applicable requirements of Article 1.03 above.
2. The Contractor shall notify the Architect, prior to submission of bid, about any part of the design which fails to comply with abovementioned requirements.
3. If after contract is awarded, minor changes and additions are required by aforementioned authorities, even though such work is not shown on drawings or covered in specifications, they shall be included at Contractor's expense.

B. Coordination:
1. The Contractor shall become familiar with the conditions at the job site, and with the drawings and specifications and plan the installation of the electrical work to conform with the existing conditions and that shown and specified so as to provide the best possible assembly of the combined work of all trades.
2. The Contractor shall work out in advance all "tight" conditions, involving all trades and if found necessary, supplementary drawings shall be prepared by this Contractor, for the Architect's approval, before work proceeds in these areas. No additional costs will be considered for work which must be relocated due to conflicts with the work of other trades.

1.06 - SUBMITTALS
A. Product Data:
1. Comply with the General Provisions of the Contract.
2. Within 15 days after award of the Contract, submit:
a. Complete material list of all items proposed to be furnished and installed under this Section, including but not limited to the following items: Circuit breakers, lighting fixtures, conduit, devices, enclosures, etc.
b. Manufacturers' specifications and other data required to demonstrate compliance with the specified requirements.
c. Manufacturers' recommended installation procedures which, when approved by the Architect, shall become the basis for inspecting and accepting or rejecting actual installation procedures used on the work.
3. Shop Drawings: Furnish shop drawings and/or equipment cuts for the following:
a. Light Fixtures
b. Disconnect Switches
c. Lamps
d. Ballasts
e. Lighting Control System
f. Switches, receptacles and faceplates.
4. Test Reports:
a. Factory Tests where indicated for specific equipment.
b. Field Tests: Performance tests as specified for specific equipment.
c. When series rated circuit breakers are used, provide a letter from the manufacturer of the equipment confirming that U.L. series rating exists for all protective devices. State the available fault current from the Utility Company and indicate that the overcurrent devices exceed the available fault current at the respective point of protection.

1.07- MATERIALS
A. Materials of the same type or classification, used for the same purpose, shall be the product of the same manufacturer.

1.08 - ACCEPTABLE MANUFACTURERS
A. Materials shall be of make mentioned elsewhere in this specification. All materials shall be the best of their several kinds, perfectly new and approved by the Underwriters' Laboratories.

B. Where material, equipment, apparatus or other products are specified by manufacturer, brand name, type or catalog number, such designation is to establish standards of desired quality, style and utility and shall be the basis of the bid. Materials so specified shall be furnished under the contract unless changed by written approval of the Owner's Representative. Where two or more designations are listed, choice shall be optional with this Contractor, but this Contractor must submit his choice for final approval.

1.09 - DELIVERY, STORAGE AND HANDLING
A. Protection: Use all means necessary to protect the materials of this Section before, during, and after installation and to protect the work and materials of all trades.
B. Delivery and Storage: Deliver all materials to the job site in their original containers with all labels intact and legible at time of use. Store in strict accordance with approved manufacturers' recommendations.
C. Replacements: In the event of damage, immediately make all repairs and replacements necessary to the approval of the Architect and at no additional cost to the Owner.
D. This Contractor shall personally, or through an authorized representative, check all materials upon receipt at jobsite for conformance with approved shop drawings and/or plans and specifications.

1.10 - SCHEDULING/SEQUENCING
A. Place orders for all equipment in time to prevent any delay in construction schedule or completion of project. If any materials or equipment are not ordered in time, additional charges made by equipment manufacturers to complete their equipment in time to meet the construction schedule, together with any special handling charges, shall be borne by this Contractor.

1.11 - REQUIREMENTS
A. The contract drawings indicate the extent and general arrangements of the conduit wiring systems,

etc. If any departures from the contract drawings are deemed necessary by the Contractor, details of such departures and the reasons therefore shall be submitted as soon as practicable, and within 10 days after award of the electrical contract.
B. UNLESS MATERIAL LIST AND DATA IS RECEIVED AS A COMPLETE AND ALL INCLUSIVE SUBMITTAL WITHIN THE STIPULATED TIME ALL ITEMS SHALL BE PROVIDED AS SPECIFIED-WITH NO DEVIATIONS PERMITTED.
C. Any and all additional costs incurred by the substitution of electrical material or equipment, or installation thereof, whether architectural, structural, plumbing, mechanical or electrical, shall be borne by the Contractor under this section.

1.12 - IDENTIFICATION
A. Each branch circuit of panelboards to have a permanently fixed number with directory, mounted under celluloid on inside of cabinet door, showing circuit numbers, room number feed and typewritten description of equipment supplied by breakers.

PART 2 - PRODUCTS:

2.01 - GENERAL
A. Materials shall be new, packed in original containers, installed and turned over to the Owner free of defects.
B. Materials shall bear Underwriters' Laboratory label.
C. Furnish equipment and materials for any one system by same manufacturer.

2.02 - MATERIALS
A. Conduit
1. Conduit shall be delivered to the site of construction in the original bundles. Each length shall bear the label of the National Board of Fire Underwriters. All conduit subjected to rough usage while on the job, before installation, shall be removed from the premises upon notice.
2. Raceway and boxes located as indicated on drawings and at other locations required for splices, taps, wire pulling, equipment connections, and compliance with regulatory requirements. Raceway and boxes are shown in approximate locations unless dimensioned. Provide raceway to complete wiring system.
3. Properties:
a. Rigid Steel: Hot dipped galvanized with completely watertight fittings.
• Couplings and elbows in soil or under membrane to be 1/2 tape wrapped with Scotch #50 tape and threaded ends coated with red lead prior to installation of couplings
b. "Schedule 40" PVC shall be provided with code size minimum bare No. 12 ground wire
• "Schedule 40 or 80" elbows
• "Schedule 40 or 80" or RGS stub-ups.
c. Flexible metal type:
• Flexible metal type provide with code size (minimum No. 12) bare ground wire in all flexible conduit.

4. Installation:
a. Install no more than the equivalent of three 90 degree bends between boxes or outlets
b. Use flush mounting outlet boxes in finished areas.
• Do not install flush mounting boxes back-to-back in walls.
• Provide minimum 6-inch separation between adjacent boxes.
• Provide minimum 24-inch separation in acoustic rated walls.
• Secure flush mounting box to interior wall and partition studs.
• Accurately position to allow for surface finish thickness.
• Install flush mounting box without damaging wall insulation or reducing its effectiveness.
c. Support boxes independently of conduits.
d. Conduit Bends - Long Radius.
e. Provide conduit seals at all concrete slab penetrations.
f.
5. Installation Location:
a. Outdoor Locations:
• Above Grade: Provide RGS conduit tape wrapped.
• In Soil: Provide Sched 40 or 80 PVC with Sched 40 or 80 PVC elbows. Tape wrapped RGS may be used for stub-up.
• In Concrete: Provide hot dipped galvanized rigid steel or Sched 40 PVC conduit.
• Motor / Flexible Connection: IWP Flexible metal conduit.
• Watertight and corrosion resistant fittings, couplings, boxes, etc.
b. Indoor Locations:
• Exposed Dry Locations: Provide EMT or RGS.
• Concealed Dry Locations: Provide electrical metallic tubing unless otherwise noted. MC cable may be used as described below under Power and Wiring.
c. Locations subject to Corrosive Atmosphere: Provide PVC coated, galvanized rigid steel or intermediate steel conduit. Provide PVC coated cast or sheet metal boxes.
d. Hazardous Locations (Per NEC Article 500): Galvanized rigid steel conduit. Cast iron boxes with threaded hubs for conduit entry. Conduit seals.

D. Power Wire and Cable:
1. Installation:
a. Connections to devices from "through feed" branch circuit conductors to be made with pigtails, with no interruption of the branch circuit conductors.
b. Neutral conductor identified by white outer covering braid, with different tracers of "EZ" numbering tags used where more than one neutral conductor is contained in a single unit.
c. Neatly arrange and "marlin" wired in panels and other equipment with "T" and "B Ty-rap" or approved equal plastic type strapping.
d. Label each wire of each electrical system in each pull box, junction box, outlet box, terminal cabinet, and panelboard in which it appears with "EZ" numbering tags.

2. Properties:
a. Copper 90% conductivity. Solid copper for conductors smaller than No. 10 AWG. Stranded copper for conductors No. 10 AWG and larger. No conductors smaller than No. 12 AWG, except as noted.
b. Insulation type: #12 to #10 AWG: THWN for wet locations and THHN for dry locations. #10 through #40 AWG: XHHW (65 Mils), 250MCM and larger: XHHW (65 Mils)
c. All wire and cable shall bear the Underwriters' Label, brought to the job in unbroken packages; wire color coded as follows:
Voltage Phasing A Phase B Phase C Phase Neutral
120/240 1p3w Black Red - White
120/208 3p 4w Black Red Blue White
208 3w Black Red Blue -

E. Grounding:
1. Provide and install grounding system as noted on the Drawings.
2. Provide and install a grounding electrode system on all separate buildings.
3. Grounding electrode conductor: bare stranded copper type, #10 minimum or per NEC Table 250.66.
4. Install ground wires in rigid conduit. Provide physical protection for grounding electrode and bonding conductors in accordance with NEC 250-64. Grounding conductors shall be in conduit and installed in accordance with NEC 250-64(e).
5. All grounding electrode conductor connections "thermite" or "cad_weld" welded.
6. Use approved pressure type solderless connector or use fusion welding for all connections to and bonding of grounding electrode system. All connections shall be visible, readily accessible for testing purposes.
7. Terminate grounding conduits at equipment with ground bushing, with ground wire connected through bushing.
8. Provide No. 12 stranded (green) THHN conductor from outlet box to ground screw of every receptacle.
9. Ground all isolated sections of metallic raceways.
10. Provide #12 minimum stranded (green) THHN conductor sized per NEC, or as noted, connected continuously throughout branch circuit for all circuits, bonded to panel ground bus, and to all electrical devices and equipment enclosures.
11. Provide an unspliced grounding electrode conductor to the grounding electrode system
12. Where the transformer supplying the service is located outside the building, at least one additional grounding connection shall be made from the grounded service conductor to a grounded electrode at the transformer.
13. After installation, test system, using the three-point fall of potential method only. Record results and

submit to Architect for approval. If resistance to ground exceeds three (3) ohms, install additional ground rods, bonded and interconnected to grounding electrode system. Provide additional grounding until resistance is less than three (3) ohms.
14. Provide a bonding jumper to the building interior metal water piping, exposed interior structural steel, interior metal gas piping, and other interior metal piping in accordance with nec 250-68. establish the connections at accessible locations and provide bonding jumpers across removable or electrically non-continuous joints.
15. Connect grounding electrode system to metallic water service entry metallic cold water pipe (if available) with nonferrous clamp and 1-#4 B.C. in conduit, connection shall be accessible for inspection.
16. Connect grounding electrode system to building steel. Use exothermic weld, connection shall be accessible for inspection.
17. Grounding Electrode System shall be as follows:
a. The grounding electrode system shall consist of a ufer ground (if feasible), all available building metal structure, all available metal underground water piping, and ground rods (made electrodes) or ground ring (if ufer ground it not available, in existing building or if resistance needs to be lowered). bond the electrodes together in accordance with NEC 250-50.

B. Conduit Fittings:
1. Metal Conduit Fittings shall conform to the requirements of UL 514B where this standard applies. Galvanized steel fittings shall be used with steel conduit. Threaded fittings shall engage a minimum of five threads made up wrench-tight and compatible with conduit. EMT fittings shall be compression type, UL approved for rain tight applications and setscrew type with insulated throat for indoor applications.
2. Liquid-Tight Flexible Conduit Fittings shall be galvanized steel, T&B 53XX series insulated throat, and shall bear the UL label. Die-cast malleable fittings are not acceptable.
3. Liquid-Tight Flexible Metal Conduit Fittings shall be galvanized steel.
4. Non-Metallic Conduit Fittings shall be of same material and strength characteristics as the conduit and shall be solvent welded as recommended by manufacturer. End bells shall be plastic, high impact, tapered to fit. Where conduit transition from non-metallic to metallic is required, provide non-metallic female "terminal" adapter. Non-metallic "male" adapters are not acceptable.

C. Outlet Boxes and Junction Boxes:
1. Galvanized one piece steel knockout type, unless otherwise noted, sizes as required for conditions at each outlet or as noted, not smaller than 2 inches wide by 4 inches high, ganged where multiple switch locations are indicated.
2. Outlet boxes located on exterior to be flush type with cast aluminum gasketed covers; spring lid with lockable covers for receptacles.
3. All connectors from conduit to junction or outlet boxes shall have integral insulated throats.
D. Circuit Breakers:
4. General: Circuit breakers shall be molded case rated for 240 volts, multiple or single pole and amperage rating as shown on the drawings, bolt on, manually operated with "de-iron" arc chutes.
5. Main circuit breaker shall be rated to interrupt the available short circuit current from utility company requirements.
6. Distribution circuit breakers shall be U.L. series rated with the main circuit breaker.
7. Where mechanical equipment is U.L. listed for overcurrent protection with fuses or HACR type circuit breaker, provide fuses where a fused switch is shown. Where the overcurrent protection is a circuit breaker, provide HACR, (HACR means Heating, Air-Conditioning and Refrigeration) type.
8. Provide AFCI circuit breakers in all bedrooms.
9. Provide tamper resistant receptacles for all 125V, 15 and 20A receptacles less than 5.5ft AFF. Tamper resistance receptacles are not required where the receptacle is dedicated to a specific appliance.
10. Provide GFCI rated circuit breakers in all locations within 6-feet of water.

Q. Lighting Fixtures:
1. As listed in fixture schedule completely lamped with new lamps, properly operating at time of acceptance of electrical work.
2. Contractor shall burn in lamps per manufacturer's instructions.
3. Ballasts in refrigerated spaces or outdoors shall be zero (0) degree F. temperature rated.

PART 3 - EXECUTION

3.01 - INSPECTION
A. Examine the areas and conditions under which the work of this Section will be installed. Correct conditions detrimental to the proper and timely completion of the Work. Do not proceed until unsatisfactory conditions have been corrected.

3.02 - PREPARATION
A. Drawings
1. The general arrangement and location of wiring and equipment is shown on the electrical drawings and shall be installed in accordance therewith, except for minor changes required by conflict with the work of other trades.
2. Control wiring is generally not shown on the plans. Contractor shall refer to control diagrams and provide and install all wiring and raceways required to make all interconnections.
3. All dimensions, together with locations of doors, partitions, etc. are to be taken from the Architectural Drawings, verified at site by this Contractor.
4. Maintain "as-constructed" Record Drawings at all times, showing the exact location of concealed conduits and feeders installed under this contract, and actual numbering of each circuit. Upon completion of work and before acceptance can be considered, this Contractor must forward to the Owner's Representative corrected Record Drawings in Autocad format indicating the electrical work as installed.
3.03 - FIELD QUALITY CONTROL
A. All workmanship shall be first class and carried out in a manner satisfactory to and approved by the Architect.
B. This Contractor shall personally, or through an authorized and competent representative, constantly supervise the work and so far as possible keep the same foreman and workmen on the job throughout.

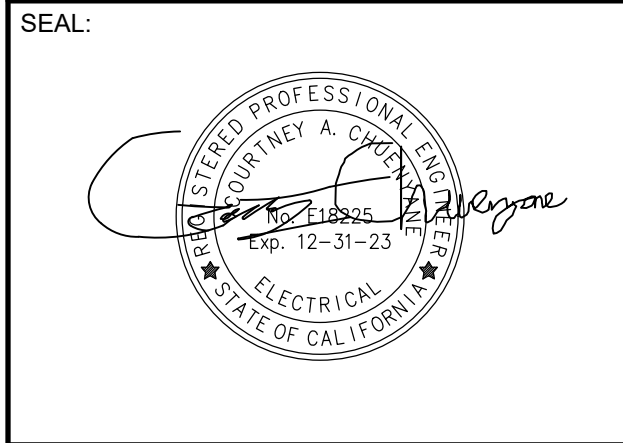
3.04 - INSTALLATION/APPLICATION/ERECTION
A. Cutting, repairing and structural reinforcing for the installation of this work shall be done by the General Contractor in conformance with the Architect's requirements.
B. Provide and place in form work all conduit, inserts and sleeves in time to prevent any delay in the concrete work.

3.05 - ADJUSTING AND CLEANING
A. Main switchboard, panelboards and all other electrical equipment not "finish painted" under other sections shall be touched up where finished surface is marred or damaged. Panelboards in finished areas shall be painted to match wall.
B. All equipment, lighting fixtures, etc., shall be left in clean condition, with all shipping and otherwise unnecessary labels removed therefrom.
C. Excavate and trench as necessary for the electrical installation, and when the work has been installed, inspected and approved, backfill all excavations with imported sandy soil in maximum 8" (eight inch) layers, moisten and machine tamp to 95% compaction, and restore the ground and/or paving or floor surfaces to their original condition. Comply with requirements of Division 2.

3.06 - SCHEDULES
A. Coordination: Coordinate installation of electrical items with the schedule for other work to prevent unnecessary delays in the total Work.

3.07 - TESTING
A. Grounding System:
1. All ground connections shall be checked and the entire system shall be checked for continuity. The resistance of the ground system shall be measured using a 3 point fall of potential method. The maximum ground resistance shall be three ohms. If the measured ground resistance exceeds three ohms, additional ground rods shall be installed until a value of three ohms or less is obtained.

REVISION SCHEDULE table with columns NO., DESCRIPTION, DATE



CONSULTANT:

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P.O. BOX 3103
ROHNERT PARK, CA 94927
WWW.BROKAWDESIGN.COM

PROJECT:
CLARKE CENTER
ACCESSIBILITY
MODIFICATIONS
720 WOOD STREET
EUREKA, CA 95502

SHEET NAME:
ELECTRICAL
SHEET
SPECIFICATION

Table with project details: ISSUE DATE: 06-12-2022, PREPARATION AND REVIEW, DRAWN BY: MOB, DESIGNER: MOB, PROJ MGR: CLB, PEER REVIEW: CAC, SHEET NUMBER: E002

SHEET NUMBER: E002

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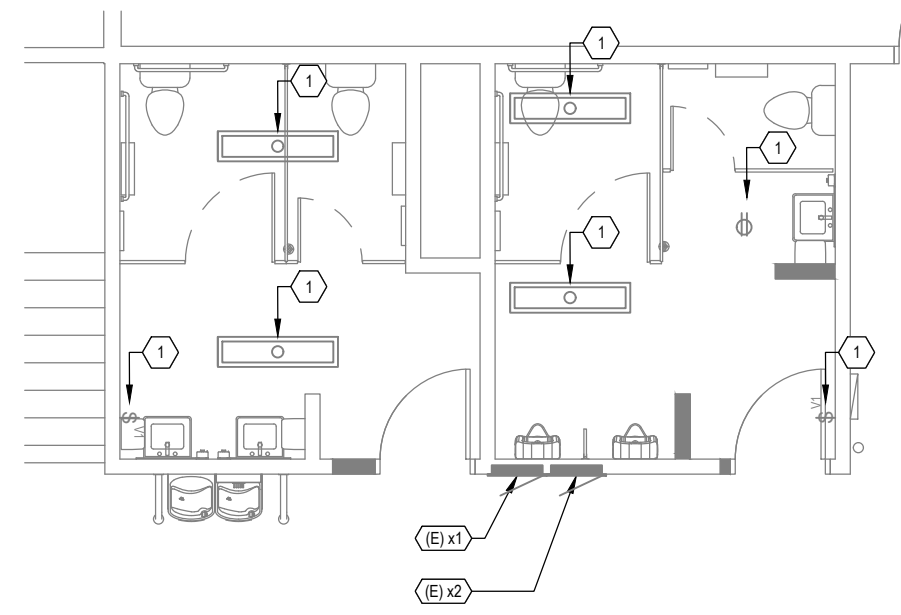
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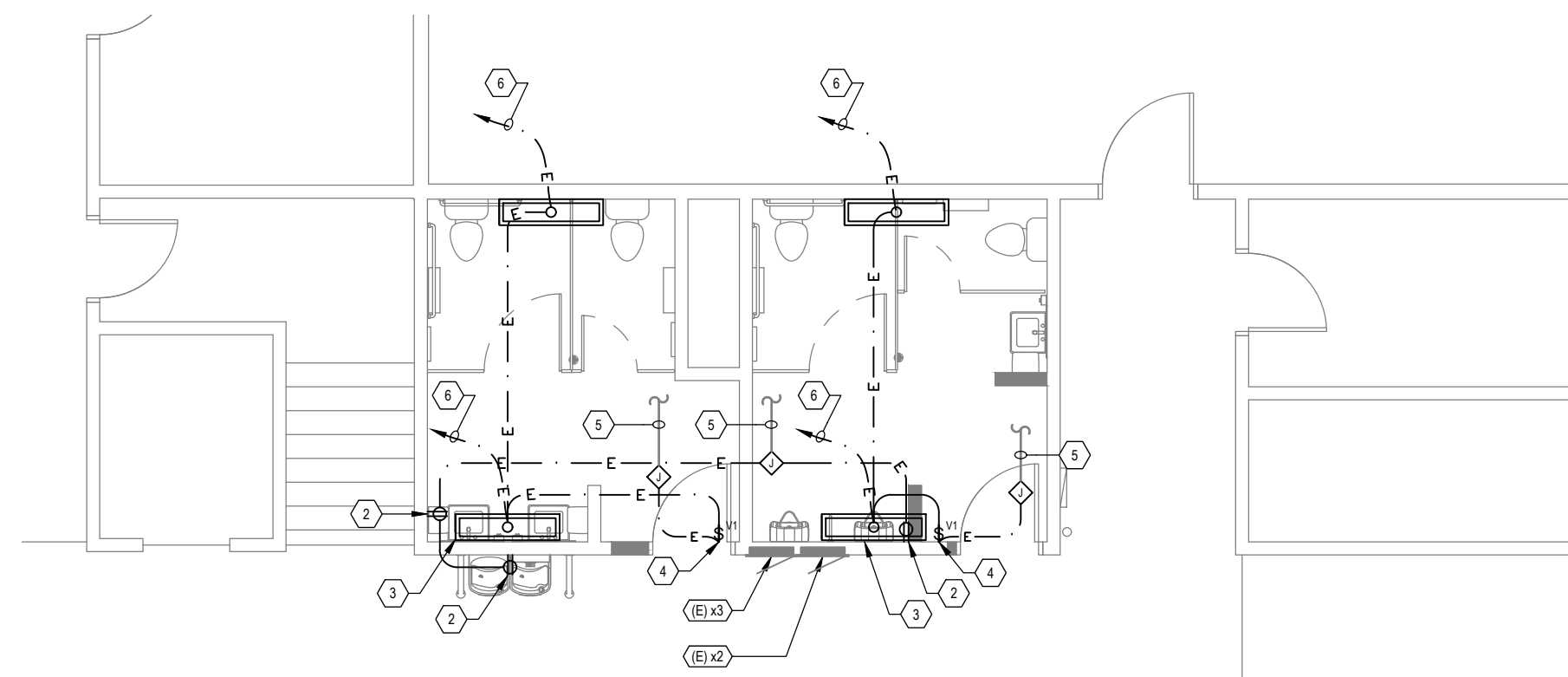
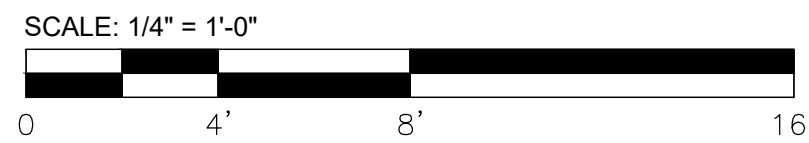
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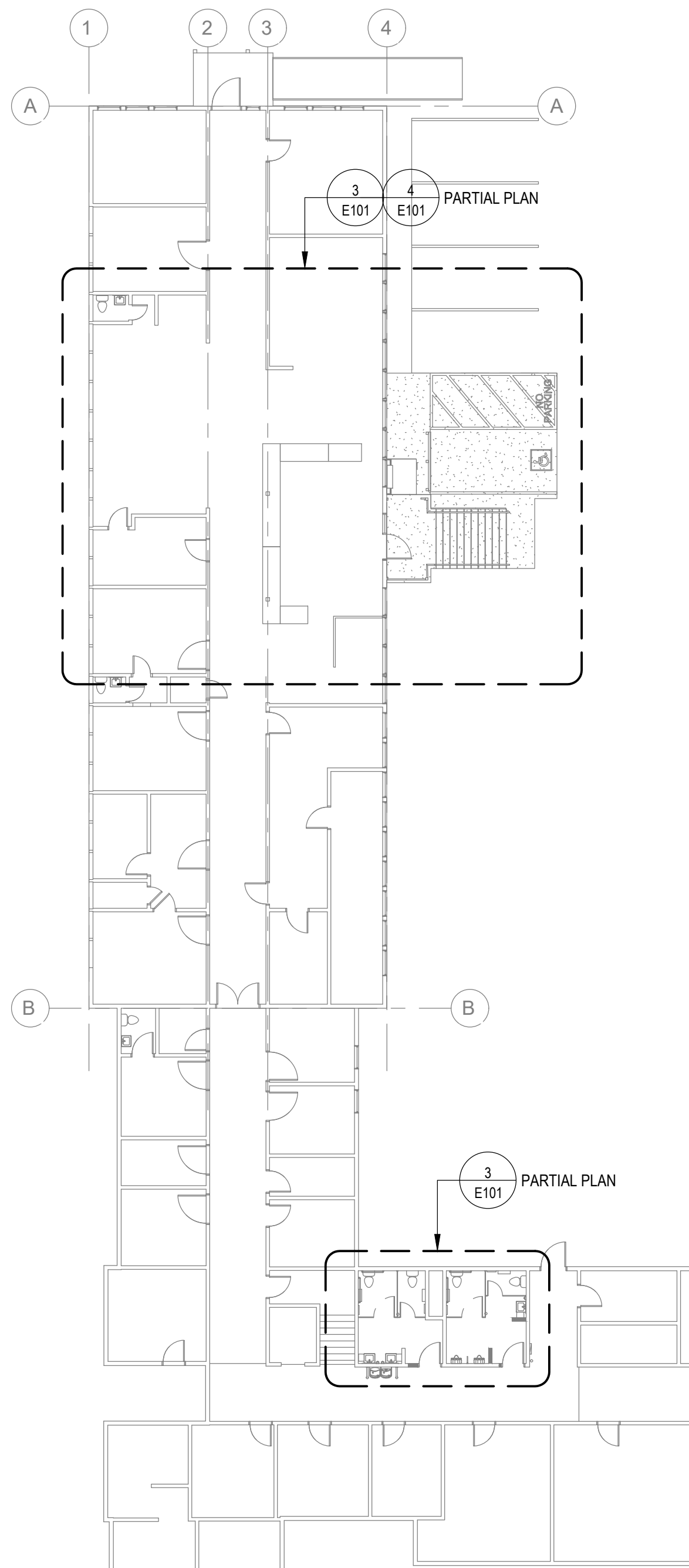
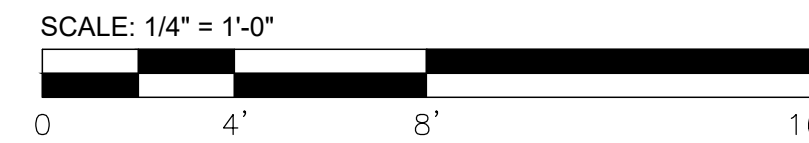
PROJECT STATUS:



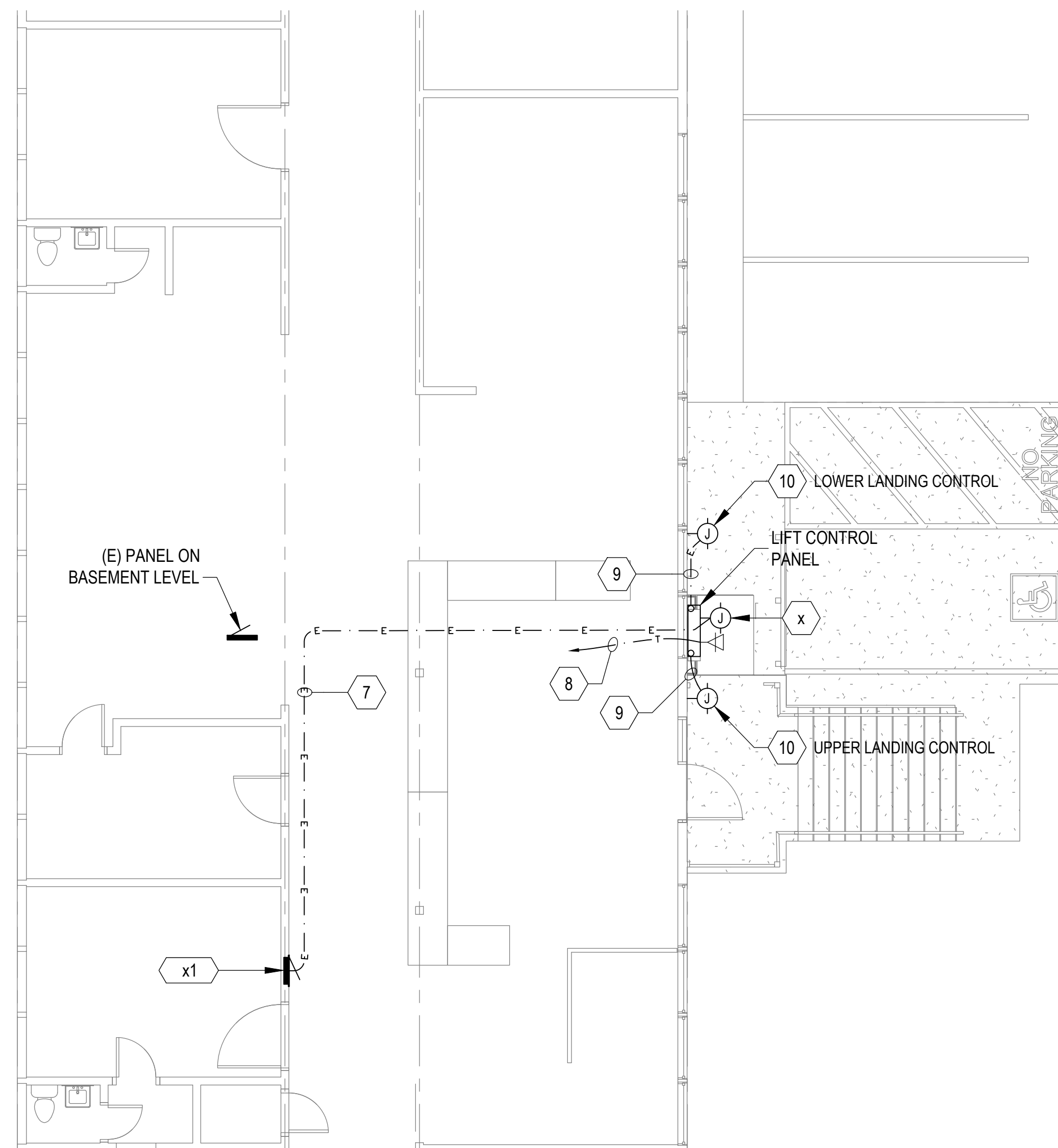
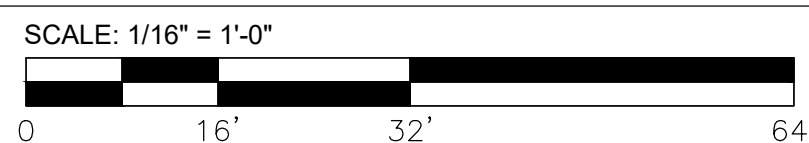
3 ELECTRICAL PARTIAL PLAN - DEMOLITION



4 ELECTRICAL PARTIAL PLAN - RESTROOMS



1 ELECTRICAL KEY PLAN



2 ELECTRICAL PARTIAL PLAN



SHEET NOTES - DEMOLITION

- A. DEMOLITION DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION AND EXISTING AVAILABLE RECORD DOCUMENTS.
- B. REMOVE CONDUIT, WIRE, BOXES, AND FASTENING DEVICES TO AVOID ANY INTERFERENCE WITH NEW INSTALLATION.
- C. DISCONNECT, REMOVE AND/ OR EXTEND ELECTRICAL SYSTEMS IN WALLS, FLOORS, AND CEILINGS SCHEDULED FOR REMOVAL.
- D. RECONNECT EQUIPMENT BEING DISTURBED BY RENOVATION WORK AND REQUIRED FOR CONTINUE SERVICE TO NEAREST AVAILABLE PANEL.
- E. DISCONNECT OR SHUT OFF SERVICE TO AREAS WHERE ELECTRICAL WORK IS TO BE REMOVED. REMOVE ELECTRICAL FIXTURES, EQUIPMENT, AND RELATED SWITCHES, OUTLETS, CONDUIT AND WIRING WHICH ARE NOT PART OF FINAL PROJECT.
- F. INSTALL TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION.
- G. DO NOT PERFORM WORK ON ENERGIZED EQUIPMENT OR CIRCUITS.
- H. REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.
- I. REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK.
- J. REMOVE EXPOSED ABANDONED GROUNDING AND BONDING COMPONENTS, FASTENERS AND SUPPORTS, AND ELECTRICAL IDENTIFICATION COMPONENTS, INCLUDING ABANDONED COMPONENTS ABOVE ACCESSIBLE CEILING FINISHES. CUT EMBEDDED SUPPORT ELEMENTS FLUSH WITH WALLS AND FLOORS.
- K. CLEAN AND REPAIR EXISTING EQUIPMENT TO REMAIN OR TO BE REINSTALLED.
- L. PROTECT AND RETAIN POWER TO EXISTING ACTIVE EQUIPMENT REMAINING.
- M. CAP ABANDONED EMPTY CONDUIT AT BOTH ENDS.
- N. SEAL ANY PENETRATIONS IN FIRE RATED WALLS.
- O. VERIFY AND DE-ENERGIZE EXISTING BRANCH CIRCUITS TO BE REMOVED. IF COMMON WITH EQUIPMENT TO REMAIN, REMOVE BACK TO POINT WHERE THE REMAINING DOWN STREAM DEVICE TO REMAIN ENERGIZED.
- P. PATCH, REPAIR AND RE-FINISH (E) SURFACES DAMAGED DUE TO DEMOLITION.

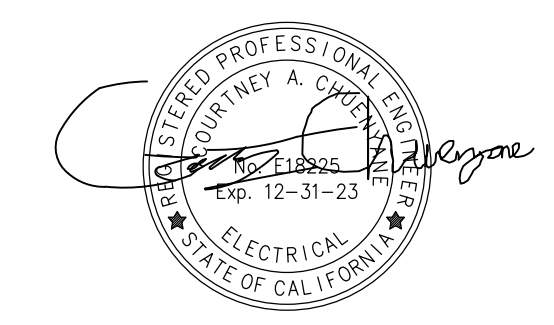
SHEET NOTES - ELECTRICAL

- A. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR COORDINATED CEILING INFORMATION. MINOR ADJUSTMENTS IN LOCATION MAY BE REQUIRED BY THE CONTRACTOR AND PROVIDED AT NO ADDITIONAL COST TO THE OWNER AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
- B. THE CONTRACTOR SHALL VERIFY THE CEILING TYPES IN ALL SPACES WITH THE ARCHITECTURAL DRAWINGS AND COORDINATE WITH THE LIGHT FIXTURES TO BE INSTALLED. THE FIXTURE SHALL BE PROVIDED WITH ALL NECESSARY HARDWARE, CLIPS, TRIM, ETC. FOR A COMPLETE AND "FINISHED" INSTALLATION.
- C. LUMINAIRES RECESSED INTO INSULATED CEILINGS SHALL BE RATED FOR INSULATION CONTACT ("IC-RATED").
- D. ALL LIGHTING CONSTRUCTION SHALL BE COORDINATED TO MAINTAIN WALL AND CEILING RATING INDICATED ON THE ARCHITECTURAL DOCUMENTS.
- E. ALL LOW VOLTAGE (0-50 volt) LIGHTING CONTROL WIRING SHALL BE INSTALLED IN CONDUIT.
- F. CENTER ALL EXIT SIGNS IN DOORWAYS WITH BOTTOM OF SIGN AT -2" ABOVE DOOR FRAME U.O.N.
- G. PROVIDE ALL NECESSARY BLOCKING AND REQUIRED METHODS OF ATTACHMENT TO MEET AHJ'S APPROVAL FOR MOUNTING OF ALL LIGHTING FIXTURES.
- H. PATCH AND REPAIR ALL WALLS DAMAGED DUE TO DEMO / NEW INSTALLATION. PAINT TO MATCH.
- I. PAINT ALL PANELS TO MATCH EXISTING WALLS.
- J. LISTED PANIC HARDWARE OR LISTED FIRE EXIT HARDWARE - CEC 110.28(C)(3).
- J. WORKING CLEARANCES FOR PANELBOARDS AND DISTRIBUTION BOARDS (NOT SERVICE ENTRANCE) UNDER 600V SHALL BE AS FOLLOWS:
FOR 208V, 3P, 4W SYSTEMS MAINTAIN A MINIMUM 36-INCHES IN FRONT OF EQUIPMENT.
FOR 240V OR 480V SYSTEMS MAINTAIN A MINIMUM OF 48-INCHES ON FRONT OF EQUIPMENT.
PROVIDE MINIMUM 6'-6" HEADROOM AT ALL LOCATIONS.
- L. ALL NON-DWELLING KITCHEN RECEPTACLES, RATED 150V TO GROUND OR LESS, 50A OR LESS AND THREE PHASE RECP RATED 150V TO GROUND OR LESS AND 100A OR LESS SHALL BE GFCI PROTECTED PER CEC 210.8(B)(2).

KEYED NOTES - ELECTRICAL (X)

- 1. DE-ENERGIZE AND REMOVE EXISTING RECEPTACLES, LIGHT FIXTURES AND CONTROLS. RETAIN BRANCH CIRCUIT(S) FOR NEW FIXTURES AND DEVICES INDICATED.
- 2. PROVIDE OUTLET AND CONNECT COMPLETE.
- 3. PROVIDE NEW ACRYLIC WRAPAROUND LIGHT FIXTURE WITH BATTERY BALLAST. LITHONIA CLXL48 3000LM SEF RDL WD MVOLT 3500K 80CRI E10WLCP.
- 4. PROVIDE VACANCY SENSOR.
- 5. INTERCEPT (E) BRANCH CIRCUIT. EXTEND TO NEW FIXTURE AND DEVICES W/ (2) #12AWG + (1) #12G.
- 6. PROVIDE UNSWITCHED CIRCUIT FOR BATTERY BALLAST.
- 7. PROVIDE NEW BRANCH CIRCUIT FOR LIFT POWER. BRANCH CIRCUIT SHALL BE (1) 3/4" W/2" #12AWG + (1) #12GND. CONNECT TO EXISTING SPARE 20AMP CIRCUIT BREAKER IN EXISTING PANEL "X1". CONNECT COMPLETE.
- 8. PROVIDE (1) 3/4" W/1" CAT6A CABLE FROM LIFT CONTROL PANEL TO EXISTING BUILDING IDF. COORDINATED WITH DISTRICT FACILITIES IT TO CONNECT TO BUILDING COMMUNICATIONS.
- 9. PROVIDE JUNCTION BOX AND AND (1) 3/4" C BACK TO LIFT CONTROLLER FOR CONTROL OPERATOR WIRING PER MANUFACTURER REQUIREMENTS. CONNECT COMPLETE.
- 10. PROVIDE (1) 30A/2P CIRCUIT BREAKER IN (E) PANEL "X" FOR NEW EWH. CONNECT COMPLETE.

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE



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PROJECT:
**CLARKE CENTER
ACCESSIBILITY
MODIFICATIONS**

720 WOOD STREET
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SHEET NAME:
**ELECTRICAL
PLAN**

ISSUE DATE:	06-12-2022
PREPARATION AND REVIEW	
DRAWN BY:	MOB
DESIGNER:	MOB
PROJ MGR:	CLB
PEER REVIEW:	CAC

SHEET NUMBER:
E101

PROJECT STATUS: