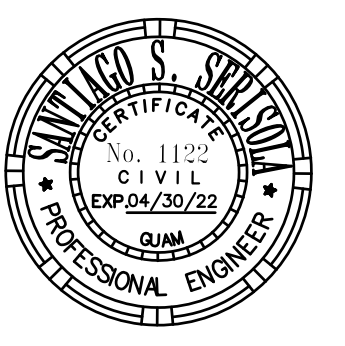


PROPOSED GIGACRETE AFFORDABLE HOUSING (SHOW MODEL/OFFICE)

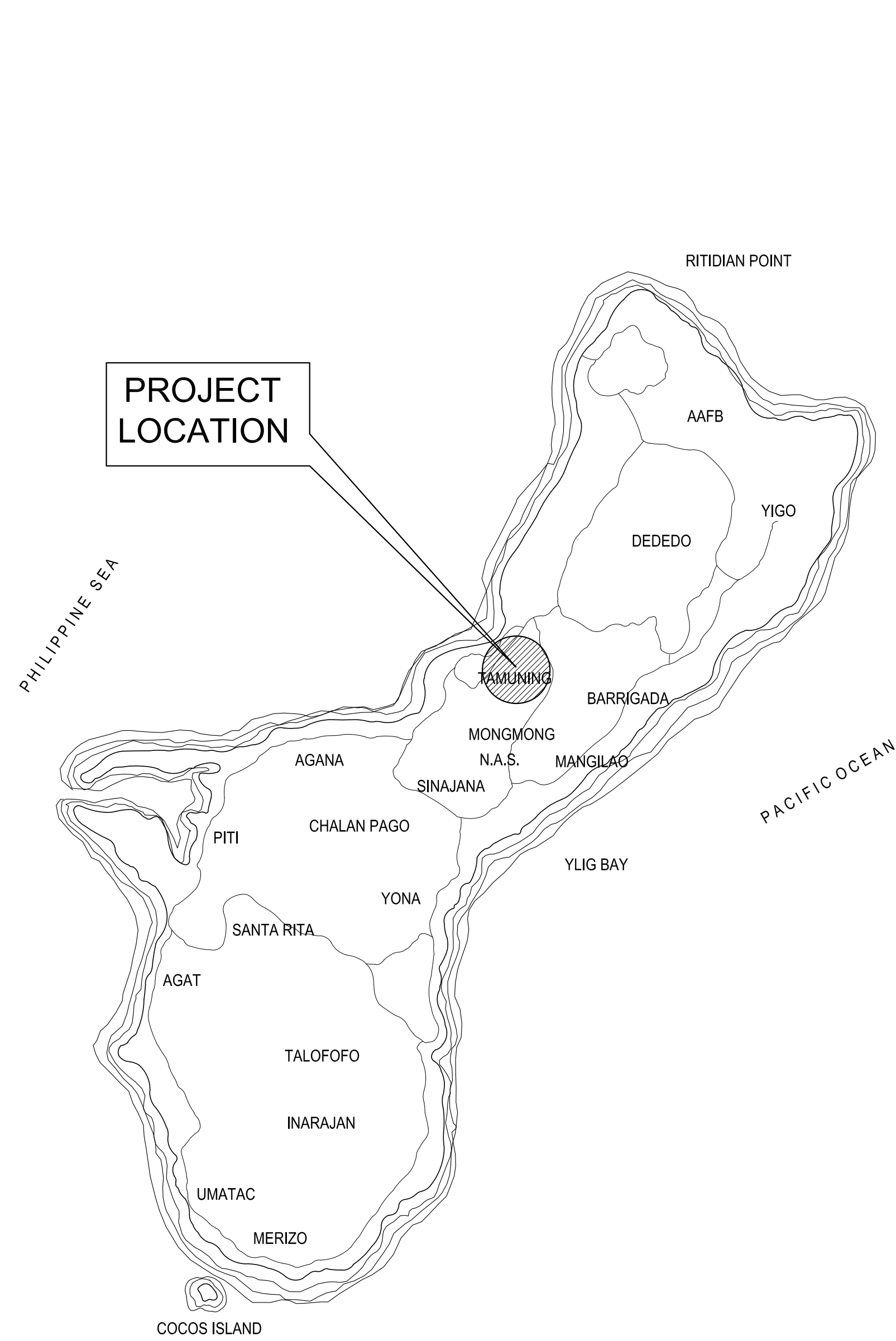
MICRONESIA GREEN BUILDING TECHNOLOGY, LLC MARK MANIBUSAN
 LOT 2021-1-1-10-1NEW, MARINE DRIVE, TAMUNING, GUAM



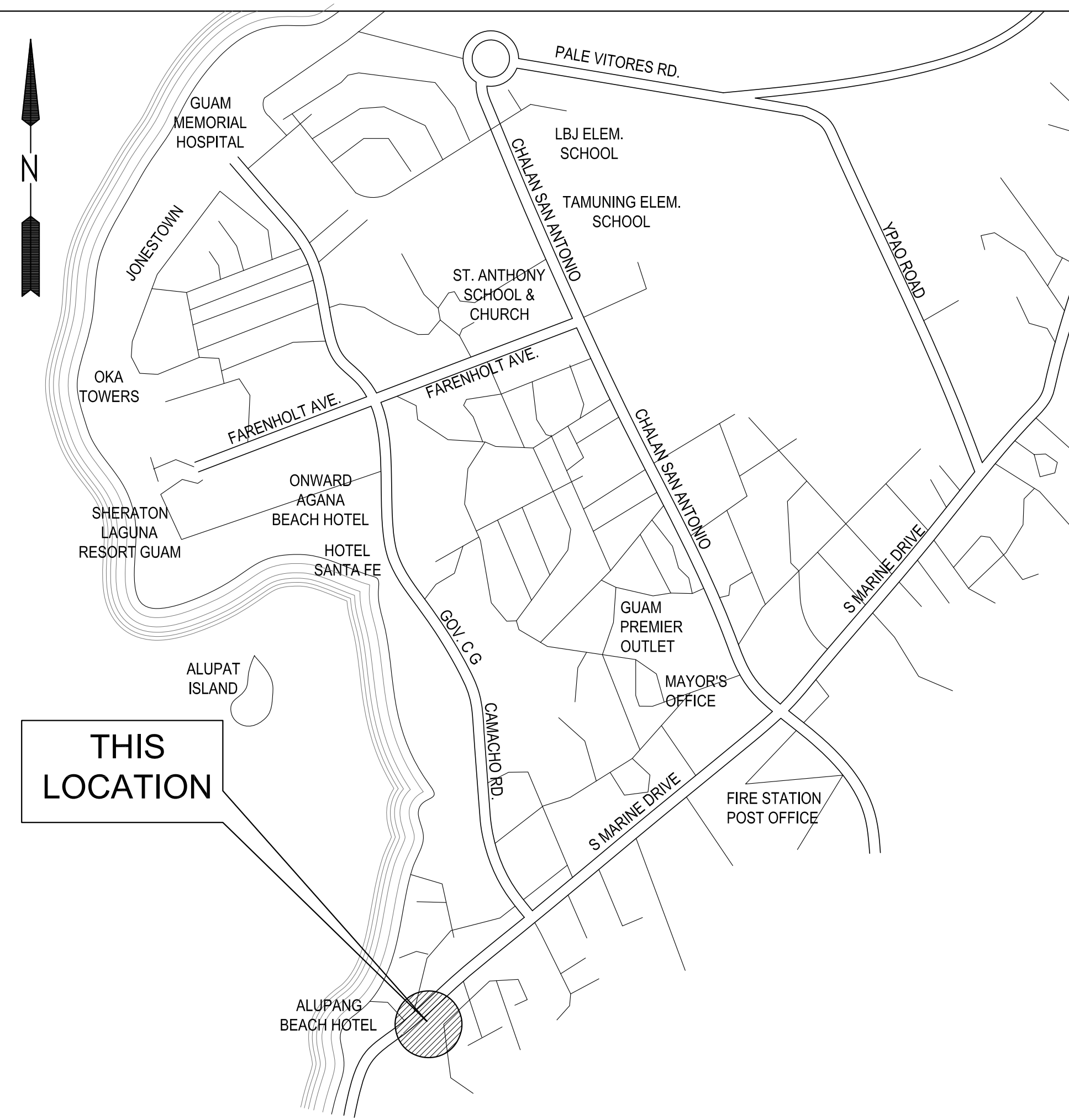
THIS WORK WAS PREPARED BY ME OR UNDER MY RESPONSIBLE CONTROL.

PROJECT TITLE
PROPOSED GIGACRETE AFFORDABLE HOUSING (SHOW MODEL/OFFICE)
 OWNER: MICRONESIA GREEN BUILDING TECHNOLOGY, LLC MARK MANIBUSAN
 LOCATION: LOT 2021-1-1-10-1NEW, MARINE DRIVE, TAMUNING GUAM

LOCATION MAP



VICINITY MAP



PERSPECTIVE



INDEX OF DRAWINGS

DWG NO.	SHEET CONTENTS
T-1	LOCATION MAP, VICINITY MAP, INDEX OF DRAWINGS, PERSPECTIVE
CIVIL DRAWINGS:	
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C-2.0	GENERAL NOTES, TRAFFIC CONTROL PLAN
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P-1	PLUMBING LAYOUT PLAN, ISOMETRIC PLUMBING DIAGRAM, GENERAL NOTES, MISCELLANEOUS DETAILS

GENERAL NOTES

1. VERIFY EXISTING DIMENSIONS & CONDITIONS BEFORE COMMENCING WORK. ANY CONFLICTS OR IRREGULARITIES FOUND, NOTIFY THE ARCHITECT IMMEDIATELY BEFORE PROCEEDING WITH THE DEMOLITION & CONSTRUCTION.
2. CONTRACTOR TO POST DANGEROUS SIGN OUTSIDE ENTRY PRIOR TO DEMOLITION.
3. ALL OTHER ITEMS NOT SHOWN TO BE REMOVED BUT REQUIRED SHALL BE INCLUDED AS PART OF THIS WORK.
4. DEMOLITION WORK SHALL BE SCHEDULED SO AS NOT TO INTERRUPT BUILDING OPERATIONS.
5. PREVENT THE SPREAD OF DUST & DEBRIS & AVOID THE NUISANCE OR HAZARD IN THE SURROUNDING AREA.
6. PROVIDE APPROVED SAFETY BARRICADES & TEMPORARY COVERING OF EXPOSED AREAS.
7. ADJUSTMENT OF UNFORSEEN UTILITY PIPINGS AFFECTING THE NEW WORK SHALL BE APPROVED & COORDINATED WITH THE BUILDING MANAGER.
8. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE GOVT OF GUAM AND APPLICABLE LOCAL & FEDERAL AGENCIES.

PROJECT TITLE

SHEET CONTENTS:
 LOCATION MAP
 VICINITY MAP
 INDEX OF DRAWINGS

DATE	ISSUE / REVISIONS
01-29-2021 <td>FIRE HYDRANT VICINITY MAP LOC.</td>	FIRE HYDRANT VICINITY MAP LOC.
01-29-2021 <td>AD1 ADDITIONAL SHEETS</td>	AD1 ADDITIONAL SHEETS
	AD2
	AD3
	AD4

FILE NAME: GUAM ADU
 DRAWN BY: SM/AD
 DESIGNED BY:
 CHECK BY:
 DATE: October 23, 2021
 DRAWING NUMBER: **T-1**
 SHEET _____ OF _____

GENERAL NOTES:

1. ALL CONSTRUCTION WORK SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE FEDERAL AND LOCAL LAWS, CODES, ORDINANCES, AND OTHER REGULATIONS OF THE GOVERNMENT OF GUAM AND ITS APPROPRIATE AGENCIES IT IS CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH PERMIT/INSPECTION REQUIREMENTS.
2. THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL KEEP THE PROJECT AND SURROUNDING AREA FREE FROM DUST NUISANCE. THE WORK SHALL BE IN ACCORDANCE WITH THE AIR POLLUTION CONTROL STANDARDS AND REGULATIONS OF THE GUAM ENVIRONMENTAL PROTECTION AGENCY (GEP). THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEANING AND REMOVAL OF ALL SILT AND DEBRIS GENERATED, DEPOSITED, AND ACCUMULATED WITHIN THE DOWNSTREAM OF THE ROAD CHANNEL OR ANY WATERWAYS.
3. ALL EXISTING UTILITIES, WHETHER SHOWN OR NOT SHOWN ON THE PLANS, SHALL BE PROTECTED AT ALL TIMES DURING CONSTRUCTION, AND DAMAGES TO THEM SHALL BE REPAIRED AND PAID BY THE CONTRACTOR.
4. THE CONTRACTOR SHALL NOT ENTER UPON ANY PROPERTY FOR ANY PURPOSE WITHOUT FIRST OBTAINING PERMISSION AND SHALL BE RESPONSIBLE FOR THE PRESERVATION OF ALL PROPERTIES, TREES, FENCES, MONUMENTS, UNDERGROUND UTILITIES, ETC. WHEN DAMAGE IS DONE CONTRACTOR SHALL RESTORE SUCH PROPERTY AT HIS OWN EXPENSE.
5. THE CONTRACTOR SHALL CONDUCT CONSTRUCTION OPERATIONS WITH MINIMUM INTERFERENCE TO ROADS, DRIVEWAYS, PARKING AREAS, SIDEWALKS AND OTHER VEHICULAR AND PEDESTRIAN FACILITIES. HE SHALL ASSURE THAT TRAFFIC FLOW IS CONTINUOUS IN ALL DIRECTIONS AT ALL TIMES. UNLESS NECESSARY, THE CONTRACTOR SHALL NOT CLOSE OR OBSTRUCT ANY PORTION OF DRIVEWAY, ROADS, OR PARKING WITHOUT OBTAINING PERMITS FROM THE CONTRACTING OFFICERS.
6. THE CONTRACTOR SHALL EXAMINE THE DRAWINGS AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES HE MAY FIND BEFORE PROCEEDING WITH THE WORK.
7. THE CONTRACTOR SHALL PROVIDE OTHER MATERIALS, NOT SPECIFICALLY DESCRIBED BUT REQUIRED FOR A COMPLETE AND PROPER INSTALLATION, AS SELECTED BY THE CONTRACTOR SUBJECT TO THE APPROVAL OF THE ENGINEER.
8. BEFORE CONSTRUCTION, A SOIL ENGINEER SHALL BE RETAINED BY THE CONTRACTOR TO SUPERVISE GRADING, CUT, EXCAVATION, AND EROSION CONTROL. CUT AND FILL SLOPE SHALL BE DETERMINED/VERIFIED BY A SOIL ENGINEER DURING CONSTRUCTION OPERATION.
9. CONTRACTOR SHALL HIRE REGISTERED LAND SURVEYOR TO LAYOUT PROPERTY BOUNDARIES BEFORE GRADING.
10. GRADING SHOWN IS FOR ROUGH GRADING ONLY. CONTRACTOR SHALL ALLOW 1 FT. CUT OR FILL ON LOT PAD ELEVATION INDICATED, FINAL ELEVATION FOR EACH HOUSE SHALL BE COORDINATED W/ ARCHITECTURAL PLAN.
11. CONSTRUCTION/INSTALLATION OF UTILITIES SUCH AS FOR WATER AND SEWER SHALL BE PERFORMED BY CERTIFIED PLUMBING CONTRACTORS.

EROSION/TEMPORARY DUST CONTROL:

1. DURING CONSTRUCTION, PREVENTIVE MEASURES SHALL BE USED TO CONTROL FORESEEABLE DUST, EROSION OR SEDIMENTATION PROBLEMS WHICH MAY ARISE AS WORK PROGRESSES. SPRINKLER OR TREAT WITH DUST SUPPRESSANTS, THE SOIL AT THE SITE, HAUL ROADS, AND OTHER AREAS DISTURBED BY OPERATIONS.
2. SILT FENCE OR OTHER TEMPORARY MEASURES WILL BE PROVIDED TO PROTECT ADJOINING PROPERTIES.
3. NO WORK WILL BE PERFORMED ON DAYS WITH EXCESSIVE WIND.
4. STABILIZED CONSTRUCTION ENTRANCE WITH COMPACTED LIMESTONE FILL TO PREVENT TRANSPORT OF MUD, DIRT, ROCKS ETC. ONTO PAVED ROADWAY. FOLLOW GEP REQUIREMENTS FOR CLEANING OUTGOING EQUIPMENT W/ PRESSURIZED WATER BEFORE LEAVING THE SITE.
5. REMOVED SILT CURTAIN FENCE AT COMPLETION OF PROJECT.

CLEARING, GRADING, AND SITE PREPARATION NOTES

1. EXCAVATE, BACKFILL, COMPACT AND GRADE THE SITE TO THE ELEVATIONS SHOWN ON THE DRAWINGS. BACKFILL SHALL BE COMPACTED LIMESTONE FILL IN 10 INCHES LOOSE LAYERS.
2. ALL CONSTRUCTION DEBRIS AND OTHER WASTE MATERIAL SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH GEP REGULATIONS.

WATERLINE NOTES:

1. PROVIDE WATER DISTRIBUTION MAINS OF PVC WATER MAIN PIPE FOR UNDERGROUND PIPING. PROVIDE GATE VALVES, FIRE HYDRANT ASSEMBLY AND GUARD POST (4 EACH), AIR RELEASE VALVES, BLOW-OFF ASSEMBLY, STUB-OUTS, AND BLIND FLANGE WHERE INDICATED. ALSO PROVIDE, WHERE INDICATED, PLUGS AND BRANCH LINES THERETO.
2. WATERLINE SHALL BE POLYVINYL CHLORIDE (PVC) PLASTIC WATER MAIN PIPE AND ASSOCIATED FITTINGS. PIPE AND FITTINGS: PIPE SHALL CONFORM TO AWWA C900 AND SHALL BE PLAIN END OR GASKET BELL END, PRESSURE CLASS 150 (DR 18) WITH CAST-IRON-PIPE-EQUIVALENT OD. FITTINGS SHALL BE GRAY-IRON OR DUCTILE-IRON CONFORMING TO AWWA C104, STANDARD THICKNESS. FITTINGS WITH PUSH-ON JOINT ENDS SHALL CONFORM TO THE SAME REQUIREMENTS AS FITTINGS WITH MECHANICAL-JOINT ENDS, EXCEPT THAT BELL DESIGN SHALL BE MODIFIED, AS SPECIFIED IN THIS PARAGRAPH.
3. JOINTS AND JOINT MATERIAL: JOINTS FOR PIPE SHALL BE PUSH-ON JOINT AS SPECIFIED ON ASTM D3139. JOINTS BETWEEN PIPE AND METAL FITTINGS, VALVES, AND OTHER ACCESSORIES SHALL BE PUSH-ON JOINTS AS SPECIFIED IN ASTM D3139 OR SHALL BE COMPRESSION-TYPE JOINTS/MECHANICAL-JOINTS AS RESPECTIVELY SPECIFIED IN ASTM D3139 AND AWWA C111. EACH JOINT CONNECTION SHALL BE PROVIDED WITH AN ELASTOMERIC GASKET SUITABLE FOR THE BELL OR COUPLING WITH WHICH IT IS TO BE USED. GASKETS FOR PUSH-ON JOINTS FOR PIPE SHALL BE INSTALLED BETWEEN PIPE AND METAL FITTINGS, VALVES, AND OTHER ACCESSORIES SHALL BE AS SPECIFIED IN AWWA C111 RESPECTIVELY FOR PUSH-ON JOINTS AND MECHANICAL-JOINTS. MECHANICALLY COUPLED JOINTS USING A SLEEVE-TYPE MECHANICAL COUPLING AS SPECIFIED IN PARAGRAPH, "SLEEVE-TYPE MECHANICAL COUPLINGS," MAY BE USED AN OPTIONAL JOINTING METHOD IN LIEU OF PUSH-ON JOINTS ON PLAIN-END PVC PLASTIC PIPE, SUBJECT TO THE LIMITATION SPECIFIED FOR MECHANICALLY COUPLED JOINTS USING A SLEEVE-TYPE MECHANICAL COUPLING AND TO USE OF INTERNAL STIFFENERS AS SPECIFIED FOR COMPRESSION-TYPE JOINTS IN ASTM D3139.

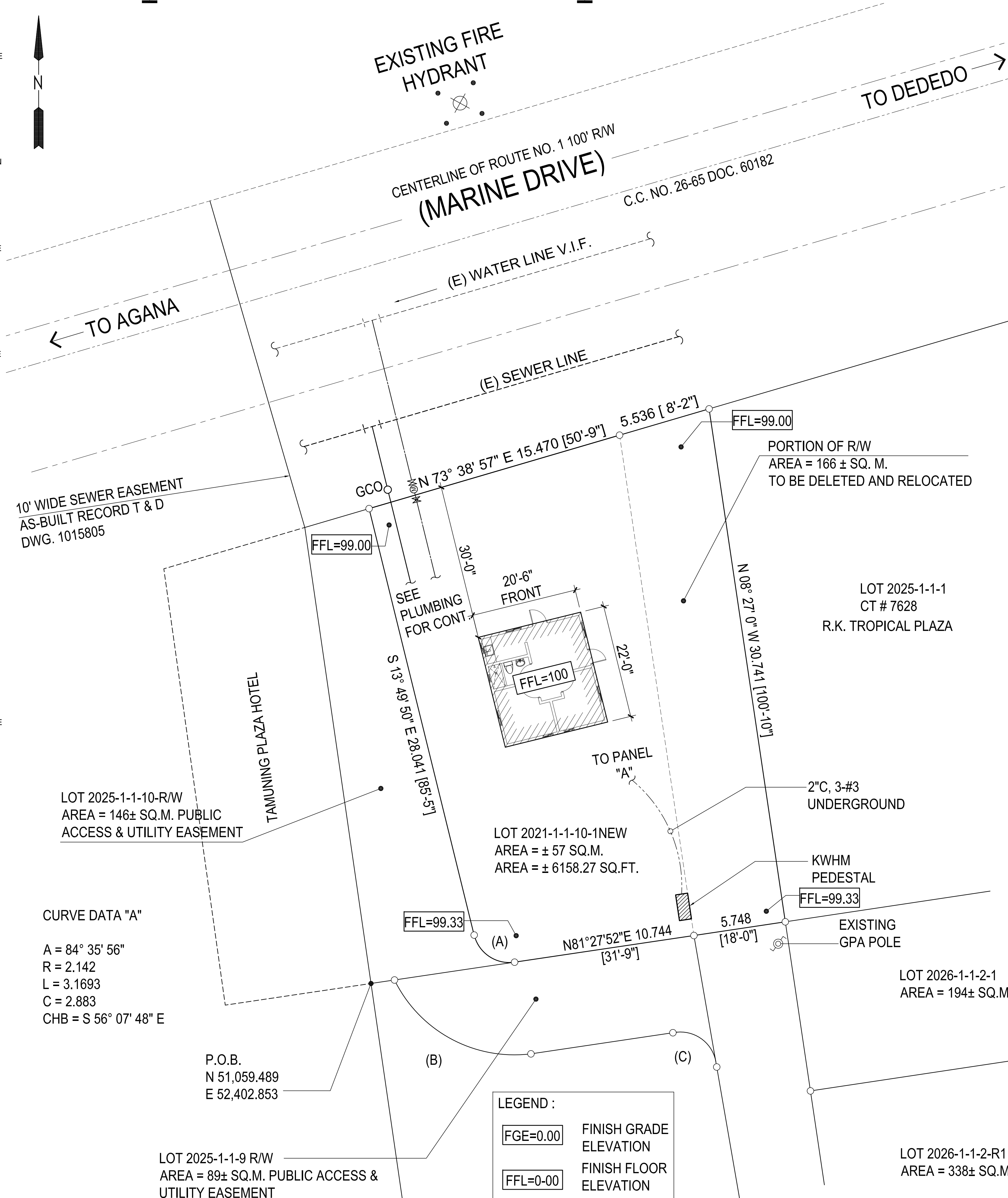
4. GATE VALVES ON BURIED PIPING: VALVES SHALL BE RESILIENT WEDGE TYPE RATED 250PSI. ALL FERROUS COMPONENTS SHALL BE DUCTILE IRON, ASTM A538 AND SHALL BE IN COMPLIANCE WITH AWWA C516. THE WEDGE SHALL BE DUCTILE IRON OR BRONZE AND SEAL EQUALLY WELL WITH FLOW IN EITHER DIRECTION. THE GATE VALVE STEM AND WEDGE NUT SHALL BE COPPER ALLOY IN ACCORDANCE WITH SECTION 4.4.5.1 OF THE AWWA C515 STANDARD. VALVE SHALL BE CERTIFIED BY NSF TO STANDARD 61. BOLTING MATERIALS SHALL DEVELOP THE PHYSICAL STRENGTH REQUIREMENTS OF ASTM A307 WITH DIMENSIONS CONFORMING TO ANSI B18.2.1.
5. LEAD ANALYSIS: LEAD CONCENTRATION OF WATER IN THE NEW WATER LINE MUST BE ANALYZED AND SUBMIT TEST RESULTS TO GUAM EPA.
6. FIELD TESTS AND INSPECTIONS
 - A. TESTING PROCEDURES: TESTING PROCEDURE FOR WATER MAINS AND WATER LINES SHALL BE IN ACCORDANCE WITH THE APPROPRIATE AWWA PUBLICATION SPECIFIED HEREIN, EXCEPT FOR THE SPECIAL TEST REQUIREMENTS GIVEN HEREINAFTER. TESTING PROCEDURE AND ALLOWABLE LEAKAGE FOR PVC PLASTIC WATER MAIN AND WATER SERVICE LINES SHALL BE IN ACCORDANCE WITH UNI-B-3, EXCEPT THAT NO LEAKAGE WILL BE ALLOWED AT JOINTS MADE WITH SLEEVE-TYPE MECHANICAL COUPLINGS. THE AMOUNT OF LEAKAGE ON LINES WITH RUBBER-GASKETED JOINTS SHALL NOT EXCEED 10 GALLONS PER INCH OF DIAMETER PER 24 HOURS PER MILE OF PIPE; NO LEAKAGE WILL BE ALLOWED AT JOINTS MADE WITH SLEEVE-TYPE MECHANICAL COUPLINGS. TESTING PROCEDURE FOR WATER
 - B. SPECIAL TESTING REQUIREMENTS: HYDROSTATIC PRESSURE FOR PRESSURE TEST SHALL BE 200 PSI AND SHALL BE HELD FOR A PERIOD OF NOT LESS THAN 2 HOURS. PRIOR TO THE PRESSURE TEST THAT PORTION OF THE WATER LINE BEING TESTED SHALL BE FILLED WITH WATER FOR A SOAKING PERIOD OF NOT LESS THAN THE MAXIMUM WORKING PRESSURE OF THE SYSTEM. LEAKAGE TESTS MAY BE PERFORMED AT THE SAME TIME AND TEST PRESSURE AS PRESSURE TESTS.
7. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF THE EXISTING WATERMAIN AND SHALL EXERCISE EXTREME CARE IN EXCAVATING IN THE AREA. WHEREVER, CONNECTIONS OF NEW WATER LINES TO EXISTING, THE CONTRACTOR SHALL EXPOSED THE EXISTING LINES AT THE PROPOSED CONNECTIONS PRIOR TO EXCAVATION OF THE NEW LINES. THE LOCATION OF EXISTING LINES AS SHOWN IN THE CONSTRUCTION PLAN ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY THEIR EXACT FIELD LOCATIONS.
8. A MINIMUM VERTICAL CLEARANCE OF 18 INCHES SHALL BE MAINTAINED BETWEEN SANITARY SEWERS AND POTABLE WATER MAINS. IF, DUE TO FIELD OBSTRUCTION OR ANY FIELD CHANGES, THE REQUIRED CLEARANCE CAN NOT BE ACHIEVED, THE SANITARY SEWER SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE OR SHALL BE ENCASED WITH CONCRETE AT LEAST 10 FEET AWAY FROM THE POINT OF CONFLICT.
9. A CLEAR LATERAL SEPARATION OF 10 FEET SHALL BE MAINTAINED BETWEEN MAIN POTABLE WATER LINES AND SANITARY SEWER LINES.
10. THE CONTRACTOR SHALL BE RESPONSIBLE OF PROTECTING OPEN TRENCHES FROM COLLAPSE. DEWATERING METHODS SHALL BE UTILIZED AS REQUIRED TO KEEP THE TRENCHES DRY DURING PIPE INSTALLATION.
11. EXPOSED WATERLINE SHALL BE DUCTILE IRON PIPE (DIP), UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
12. CONSTRUCTION/INSTALLATION OF UTILITIES SUCH AS FOR WATER AND SEWER SHALL BE PERFORMED BY CERTIFIED PLUMBING CONTRACTORS.

SANITARY SEWER NOTES:

1. A MINIMUM VERTICAL CLEARANCE OF 18 INCHES SHALL BE MAINTAINED BETWEEN SANITARY SEWER AND POTABLE WATER MAINS. A MINIMUM VERTICAL CLEARANCE OF 12 INCHES SHALL BE MAINTAINED BETWEEN SANITARY SEWER AND STORM SEWER. HOWEVER, IF DUE TO FIELD CHANGES OR UNFORSEEN OBSTRUCTION DURING CONSTRUCTION THE ABOVE CLEARANCES CAN NOT BE OBTAINED, THE SANITARY SEWER AS AN ALTERNATE MAY BE ENCASED IN CONCRETE AT LEAST 10 FEET AWAY FROM THE CONFLICT POINT ON EACH SIDE.
2. A CLEAR HORIZONTAL SEPARATION OF 10 FEET SHALL BE MAINTAINED BETWEEN WATER MAINS AND SANITARY SEWERS. SEWER CROSSING OVER WATER PIPES OR LESS THAN 18 INCHES BELOW) (CLEAR SEPARATION) SHALL BE ENCASED IN CONCRETE TO A MINIMUM OF 10 FEET EITHER SIDE OF THE POINT OF CROSSING.
3. ALL SANITARY SEWER MAINS SHALL HAVE AT LEAST 3 FEET COVER. SANITARY SEWER LATERALS SHALL HAVE A MINIMUM 2'-0" SOIL COVER.
4. THE INSTALLATION OF SANITARY SEWER LATERALS TO EACH BUILDINGS SHALL BE COORDINATED WITH GWA REPRESENTATIVES.
5. PIPE MATERIALS SHALL BE TRAFFIC TYPE PVC THAT CAN SUPPORT AASHTO M273 HS20 TRAFFIC LOAD WITH A MINIMUM 2-FOOT SOIL COVER.
6. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF EXISTING UNDERGROUND UTILITIES AND SHALL EXERCISE EXTREME CARE IN EXCAVATING IN THE AREA. WHEREVER, CONNECTIONS OF NEW UTILITIES TO EXISTING, THE CONTRACTOR SHALL EXPOSE THE EXISTING LINES AT THE PROPOSED POINT OF CONNECTION TO VERIFY THEIR LOCATIONS AND DEPTHS PRIOR TO EXCAVATION FOR THE NEW LINES. THE CONTRACTOR SHALL COORDINATE ALL REQUIRED TRENCHING WITH GWA AND OTHER APPROPRIATE GOVERNMENT OF GUAM AGENCIES.
7. THE SYSTEM SHALL NOT BE ACTIVATED UNTIL THE SYSTEM HAS SUCCESSFULLY PASSED ALL REQUIRED TEST AND IS ACCEPTED BY THE GUAM WATERWORKS AUTHORITY.
8. ALL NEW SEWERLINES CONNECTION TO NEW OR EXISTING SEWER MANHOLE SHALL BE CONNECTED WITH WATER-TIGHT-FLEXIBLE JOINTS USING "KOR-NEAL" GWA APPROVED EQUIVALENT.
9. ALL NEW SEWER MANHOLES SHALL BE WATER SEALED WITH WATERPROOFING MEMBRANCE ON BOTH SIDE OF MANHOLE WALLS.

CLEANOUT INSTALLATION:

1. INSTALL CLEANOUTS AND RISER EXTENSIONS FROM SEWER PIPES TO CLEANOUTS AT GRADE. USE CAST-IRON SOIL PIPE FITTINGS IN SEWER PIPES AT BRANCHES FOR CLEANOUTS AND CAST-IRON SOIL PIPE FOR RISER EXTENSIONS TO CLEANOUTS. INSTALL PIPING SO CLEANOUTS OPEN IN DIRECTION OF FLOW IN SEWER PIPE.
2. USE HEAVY-DUTY, TOP-LOADING CLASSIFICATION CLEANOUTS IN VEHICLE-TRAFFIC SERVICE AREAS.
3. SET CLEANOUT FRAMES AND COVERS IN EARTH IN CAST-IN-PLACE-CONCRETE BLOCK, INCHES SET WITH TOPS 1 INCH ABOVE SURROUNDING GRADE.
4. SET CLEANOUT FRAMES AND COVERS IN CONCRETE PAVEMENT WITH TOPS FLUSH WITH PAVEMENT



CURVE DATA "A"

A = 84° 35' 56"
 R = 2,142
 L = 3,1693
 C = 2,883
 CHB = S 56° 07' 48" E

LEGEND :

FGE=0.00	FINISH GRADE ELEVATION
FFL=0.00	FINISH FLOOR ELEVATION

1 SITE PLAN
 SCALE: 3/32" = 1'-0"
 0' 1' 2' 4'

GigaCrete
 ARCHITECT/ENGINEER

PROPOSED GIGACRETE AFFORDABLE HOUSING (SHOW MODEL/OFFICE)

PROJECT TITLE: PROPOSED GIGACRETE AFFORDABLE HOUSING (SHOW MODEL/OFFICE)
 OWNER: MICRONESIA GREEN BUILDING TECHNOLOGY, LLC MARK MANIBUSAN
 LOCATION: LOT 2021-1-1-10-1NEW, MARINE DRIVE, TAMUNING GUAM

THIS WORK WAS PREPARED BY ME OR UNDER MY RESPONSIBLE CONTROL.

SHEET CONTENTS:

DATE	ISSUE / REVISIONS

FILE NAME: GUAM ADU
 DRAWN BY: SM/AD
 DESIGNED BY:
 CHECK BY:
 DATE: October 23, 2021

DRAWING NUMBER: **C-1**
 SHEET OF



THIS WORK WAS PREPARED BY ME OR UNDER MY RESPONSIBLE CONTROL.

PROJECT TITLE
PROPOSED GIGACRETE AFFORDABLE HOUSING (SHOW MODEL/OFFICE)

OWNER:
MICRONESIA GREEN BUILDING TECHNOLOGY, LLC MARK MANIBUSAN

LOCATION:
LOT 2021-1-1-10-1NEW, MARINE DRIVE, TAMUNING GUAM

GENERAL NOTES:

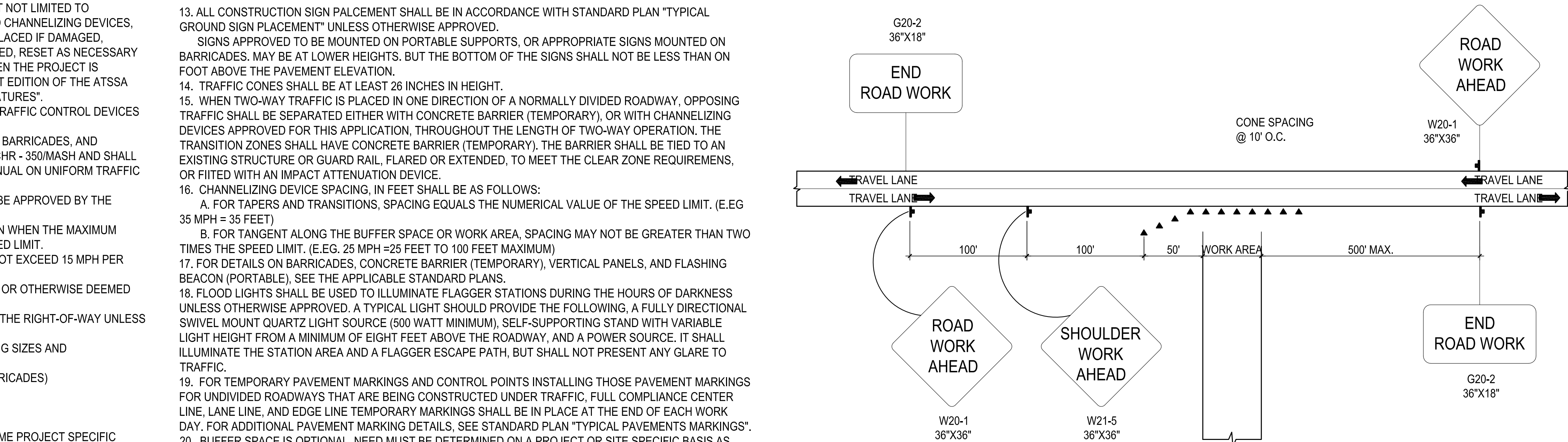
- RE1. ALL CONSTRUCTION ZONE TRAFFIC CONTROL DEVICES, INCLUDING BUT NOT LIMITED TO BARRICADES, SIGNS, ARROW PANELS, FLASHING BEACON (PORTABLE), AND CHANNELIZING DEVICES, SHALL BE FURNISHED, INSTALLED, MAINTAINED (INCLUDING WASHING), REPLACED IF DAMAGED, REMOVED WHEN TEMPORARILY NOT IN USE AND RETURNED WHEN REQUIRED, RESET AS NECESSARY DURING THE PROGRESS OF CONSTRUCTION, AND REMOVED ENTIRELY WHEN THE PROJECT IS COMPLETED. ALL DEVICES SHALL MEET THE REQUIREMENTS OF THE LATEST EDITION OF THE ATSSA "QUALITY GUIDELINES FOR TEMPORARY TRAFFIC CONTROL DEVICES & FEATURES".
- WORK ON THE PROJECT SHALL NOT BE STARTED UNTIL ALL REQUIRED TRAFFIC CONTROL DEVICES ARE IN PLACE, AND APPROVED BY THE ENGINEER.
- ALL WORK ZONE HARDWARE SUCH AS DRUMS, CONES, SIGN SUPPORTS, BARRICADES, AND BARRIERS MUST MEET THE CRASHWORTHY PERFORMANCE CRITERIA IN NCHRP-350/MASH AND SHALL COMPLY WITH THE REQUIREMENTS OF THE CURRENT EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD).
- WHEN SPEED LIMIT REDUCTION IS REQUIRED, SUCH REDUCTION SHALL BE APPROVED BY THE ENGINEER.
AN ADVISORY SPEED PLATE (W13-1P) MAY BE USED WITH A WARNING SIGN WHEN THE MAXIMUM RECOMMENDED SPEED FOR CONDITION NAMED IS LOWER THAN THE POSTED LIMIT.
THE REGULATORY OR ADVISORY SPEED REDUCTION DISPLAYED SHALL NOT EXCEED 15 MPH PER SIGN INSTALLATION.
- ANY TRAFFIC CONTROL DEVICE THAT IS DAMAGED, WEATHERED, WORN, OR OTHERWISE DEEMED UNACCEPTABLE BY THE ENGINEER, SHALL BE REPLACED.
- CONTRACTOR AND PERSONAL VEHICLE PARKING IS PROHIBITED WITHIN THE RIGHT-OF-WAY UNLESS DESIGNATED ON THE PLANS, OR APPROVED BY THE ENGINEER.
- CONSTRUCTION TRAFFIC SIGNS SHALL BE MEASURED BY THE FOLLOWING SIZES AND DESCRIPTIONS:
PANEL SIZE A 0.01 TO 9.00 SQ. FT. (INCLUDING TYPE 1 AND TYPE 2 BARRICADES)
PANEL SIZE B 9.01 TO 16.00 SQ. FT.
PANEL SIZE C GREATER THAN 16 SQ. FT.

- CONSTRUCTION TRAFFIC SIGN (SPECIAL), SQ. FT., MAY BE USED FOR SOME PROJECT SPECIFIC INFORMATION SIGNS.
FOR DETAILED DIMENSIONS OF SIGNS WITH SIGN CODE NUMBERS, SEE "STANDARD HIGHWAY SIGNS" SIGN LAYOUT FOR OTHER SIGNS WILL BE FURNISHED IN THE PLANS, TRANSMITTED TO THE ENGINEER AFTER AWARD, OR MAY BE AVAILABLE UPON REQUEST.
W20-5 WARNING SIGNS SHALL BE FURNISHED WITH EXCHANGEABLE PLAQUES READING "RIGHT", "LEFT", "CENTER", "RIGHT 2", ETC. AT NO ADDITIONAL COST.
- ALL WARNING AND REGULATORY SIGNS SHALL BE POSTED ON BOTH SIDES OF THE ROADWAY ON DIVIDED ROADWAYS, AND AS DIRECTED BY THE ENGINEER, EXCEPT WHERE ONLY ONE SHOULDER IS CLOSED.
- ADDITIONAL TRAFFIC CONTROL DEVICES ADDRESSING FLAGGING, SPEED REDUCTION, ETC. WILL BE NECESSARY FOR SET-UP AND TAKE-DOWN OF MOST CASE APPLICATIONS; DAILY WORK SITE ACCESS, AND PAVEMENT MARKING REMOVAL AND INSTALLATION OPERATIONS.
- BASED ON SIGHT DISTANCE AND OTHER CONSIDERATIONS, THE FINAL LOCATIONS OF SIGNS ARE SUBJECT TO APPROVAL OF THE ENGINEER.
- IF CONSTRUCTION RELATED TRAFFIC CONGESTION BACKS UP BEYOND THE INSTALLED ADVANCE SIGN SEQUENCE, ADDITIONAL ADVANCE SIGNING SHALL BE REPLACED BEYOND THE CONGESTION AS DIRECTED BY THE ENGINEER.
- ALL SIGN MATERIAL SHALL BE SOUND AND DURABLE TO THE DEGREE NECESSARY FOR MAINTAINING EFFECTIVE AND NEAT APPEARING TRAFFIC CONTROLS, AND:
a. SIGN PANELS MAY BE FABRICATED FROM PLYWOOD, STEEL, ALUMINUM, OR OTHER SUITABLE MATERIAL.
b. REFLECTIVE SHEETING SHALL COMFORM TO ASTM D4958. THE TYPE SHALL BE AS DESCRIBED IN THE STANDARD SPECIFICATIONS AND/OR AS SHOWN ON THE PLANS.
c. SYMBOLS AND LEGEND SHALL BE OF GOOD WORKMANSHIP (UNEVEN OR HAND LETTERING WILL NOT BE ACCEPTED).
d. PORTABLE OR TEMPORARY MOUNTING SHALL NOT BE CONSTRUCTED OR WEIGHTED BY ANY METHOD OR MATERIAL THAT MAKES THEM HAZARDOUS TO TRAFFIC.
e. CERTAIN POST SIZES AND SHAPES REQUIRE A "BREAK-AWAY" DEVICES SEE THE APPLICABLE STANDARD PLAN. OTHER POST DESIGNS OR SYSTEM REQUIRE THE SUBMITTAL OF AN FHWR LETTER OF ACCEPTANCE TO THE ENGINEER, AND MUST BE APPROVED BY THE ENGINEER PRIOR TO THEIR USE.

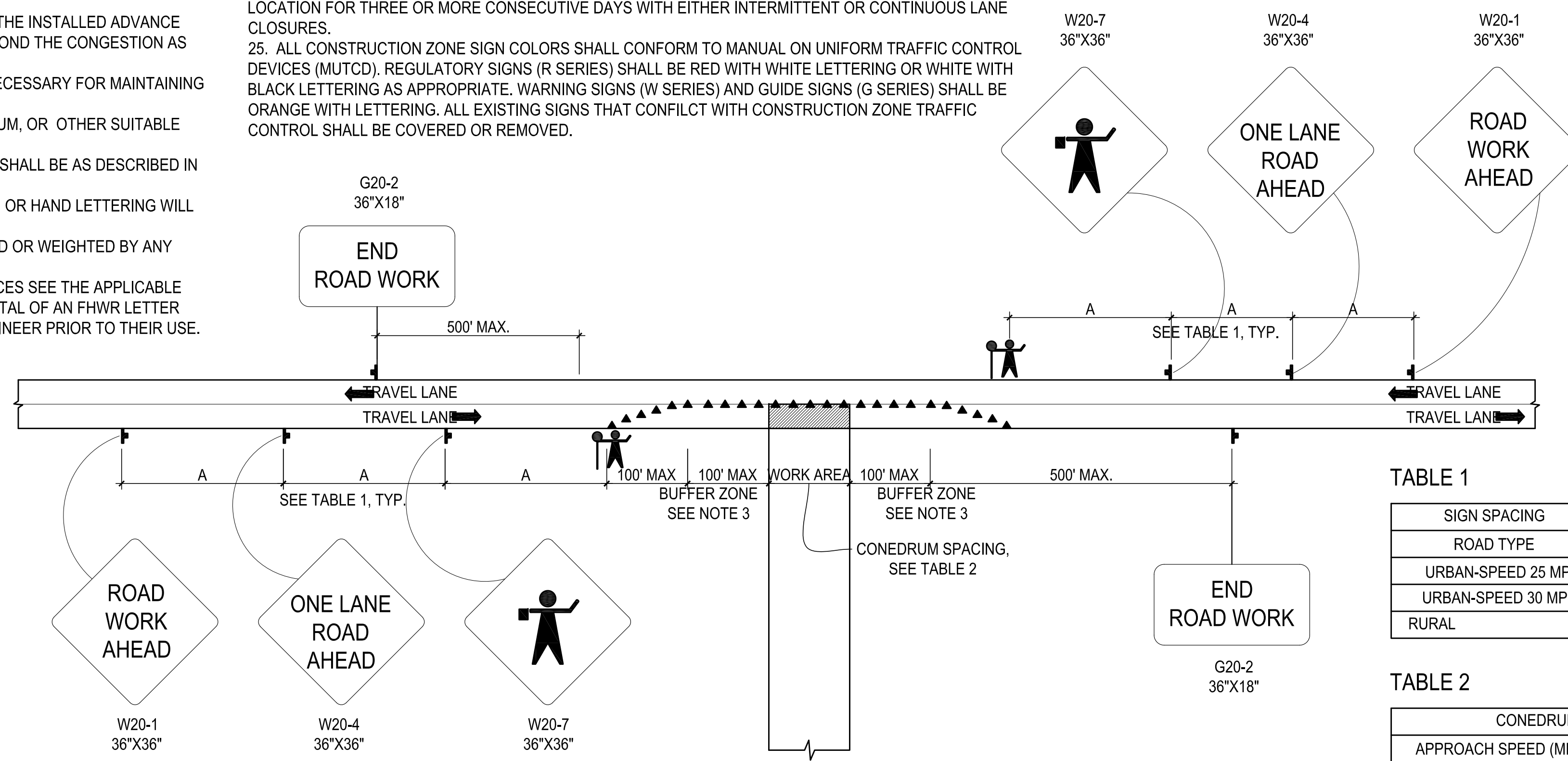
NOTES:

- PAVEMENT MARKINGS FOR TEMPORARY TRAFFIC CONTROL IF REQUIRED, SHALL BE AS DIRECTED BY THE ENGINEER OR SHOWN IF SHOWN IN THE DRAWINGS.
- THE SIGN LOCATION SPACINGS MAYBE VARIED FROM THE DIMENSION SHOWN DUE TO FIELD CONDITIONS INCLUDING ROAD ALIGNMENT, SIGHT DISTANCES, INTERSECTIONS, DRIVEWAYS, PERMANENT SIGNS OR OTHER OBSTRUCTIONS.
- USE DRUMS FOR CHANNELIZING DEVICES IF TEMPORARY CONTROL IS TO REMAIN IN PLACE FOR 3 DAYS OR LONGER.
- CONTRACTOR TO VERIFY AND FIELD AND VERIFY SURVEYORS PROJECT LOCATION MARKING.

- ALL CONSTRUCTION SIGN PALCEMENT SHALL BE IN ACCORDANCE WITH STANDARD PLAN "TYPICAL ROAD SIGN PLACEMENT" UNLESS OTHERWISE APPROVED.
SIGNS APPROVED TO BE MOUNTED ON PORTABLE SUPPORTS, OR APPROPRIATE SIGNS MOUNTED ON BARRICADES, MAY BE AT LOWER HEIGHTS, BUT THE BOTTOM OF THE SIGNS SHALL NOT BE LESS THAN ON FOOT ABOVE THE PAVEMENT ELEVATION.
- TRAFFIC CONES SHALL BE AT LEAST 26 INCHES IN HEIGHT.
- WHEN TWO-WAY TRAFFIC IS PLACED IN ONE DIRECTION OF A NORMALLY DIVIDED ROADWAY, OPPOSING TRAFFIC SHALL BE SEPARATED EITHER WITH CONCRETE BARRIER (TEMPORARY), OR WITH CHANNELIZING DEVICES APPROVED FOR THIS APPLICATION, THROUGHOUT THE LENGTH OF TWO-WAY OPERATION. THE TRANSITION ZONES SHALL HAVE CONCRETE BARRIER (TEMPORARY). THE BARRIER SHALL BE TIED TO AN EXISTING STRUCTURE OR GUARD RAIL, FLARED OR EXTENDED, TO MEET THE CLEAR ZONE REQUIREMENTS, OR FIITED WITH AN IMPACT ATTENUATION DEVICE.
- CHANNELIZING DEVICE SPACING, IN FEET SHALL BE AS FOLLOWS:
A. FOR TAPERS AND TRANSITIONS, SPACING EQUALS THE NUMERICAL VALUE OF THE SPEED LIMIT. (E.EG 35 MPH = 35 FEET)
B. FOR TANGENT ALONG THE BUFFER SPACE OR WORK AREA, SPACING MAY NOT BE GREATER THAN TWO TIMES THE SPEED LIMIT. (E.EG. 25 MPH =25 FEET TO 100 FEET MAXIMUM)
- FOR DETAILS ON BARRICADES, CONCRETE BARRIER (TEMPORARY), VERTICAL PANELS, AND FLASHING BEACON (PORTABLE), SEE THE APPLICABLE STANDARD PLANS.
- FLOOD LIGHTS SHALL BE USED TO ILLUMINATE FLAGGER STATIONS DURING THE HOURS OF DARKNESS UNLESS OTHERWISE APPROVED. A TYPICAL LIGHT SHOULD PROVIDE THE FOLLOWING, A FULLY DIRECTIONAL SWIVEL MOUNT QUARTZ LIGHT SOURCE (500 WATT MINIMUM), SELF-SUPPORTING STAND WITH VARIABLE LIGHT HEIGHT FROM A MINIMUM OF EIGHT FEET ABOVE THE ROADWAY, AND A POWER SOURCE. IT SHALL ILLUMINATE THE STATION AREA AND A FLAGGER ESCAPE PATH, BUT SHALL NOT PRESENT ANY GLARE TO TRAFFIC.
- FOR TEMPORARY PAVEMENT MARKINGS AND CONTROL POINTS INSTALLING THOSE PAVEMENT MARKINGS FOR UNDIVIDED ROADWAYS THAT ARE BEING CONSTRUCTED UNDER TRAFFIC, FULL COMPLIANCE CENTER LINE, LANE LINE, AND EDGE LINE TEMPORARY MARKINGS SHALL BE IN PLACE AT THE END OF EACH WORK DAY. FOR ADDITIONAL PAVEMENT MARKING DETAILS, SEE STANDARD PLAN "TYPICAL PAVEMENTS MARKINGS".
- BUFFER SPACE IS OPTIONAL, NEED MUST BE DETERMINED ON A PROJECT OR SITE SPECIFIC BASIS AS DIRECTED BY THE ENGINEER. WHEN A BUFFER SPACE IS USED, DIMENSIONS AND/OR DEVICES USED ARE TO BE INCORPORATED IN THE TRAFFIC CONTORL PLAN (TCP) OR THE CONTRACTOR'S METHOD OF HANDLING TRAFFIC (MHT).
- WHEN ARROW BOARDS ARE USED TO CLOSE MULTIPLE LANES, A SEPARATE ARROW BOARD SHALL BE USED FOR EACH CLOSED LANE.
IF ARROW BOARDS ARE USED FOR SHOULDER WORK, BLOCKING THE SHOULDER, FOR ROADSIDE WORK NEAR THE SHOULDER, OR FOR TEMPORARILY CLOSING ONE LANE ON A TWO-LANE , TWO - WAY ROADWAY, USE THE ARROW BOARDS ONLY IN THE CAUTION MODE.
- RAISED PAVEMENT MARKERS MAY BE USED TO SUPPLEMENT TEMPORARY STRIPING.
- THE TYPICAL CASES DEPICTED IN THIS STANDARD REFLECT THE MINIMUM REQUIREMENTS, UNLESS AS OTHERWISE DIRECTED BY THE PROJECT PLANS AND SPECIFICATIONS, AND/OR THE PROJECT ENGINEER.
- A SIGNIFICANT PROJECT IS DEFINED AS ONE THAT, ALONE OR IN COMBINATION WITH OTHER CONCURRENT PROJECTS NEARBY, IS ANTICIPATED TO CAUSE SUSTAINED WORK ZONE IMPACTS AT A LOCATION FOR THREE OR MORE CONSECUTIVE DAYS WITH EITHER INTERMITTENT OR CONTINUOUS LANE CLOSURES.
- ALL CONSTRUCTION ZONE SIGN COLORS SHALL CONFORM TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). REGULATORY SIGNS (R SERIES) SHALL BE RED WITH WHITE LETTERING OR WHITE WITH BLACK LETTERING AS APPROPRIATE. WARNING SIGNS (W SERIES) AND GUIDE SIGNS (G SERIES) SHALL BE ORANGE WITH LETTERING. ALL EXISTING SIGNS THAT CONFLICT WITH CONSTRUCTION ZONE TRAFFIC CONTROL SHALL BE COVERED OR REMOVED.



AT SHOULDER



LANE CLOSURE ON TWO LANE ROAD/HIGHWAY
NOT TO SCALE

TABLE 1

SIGN SPACING	
ROAD TYPE	A (FT.)
URBAN-SPEED 25 MPH OR LESS	100
URBAN-SPEED 30 MPH OR MORE	350
RURAL	500

TABLE 2

CONEDRUM SPACING	
APPROACH SPEED (MPH)	SPACING (FT.)
25 & BELOW	25
35	35
45	45

LEGEND:

- WORK AREA
- CHANNELIZING DEVICES
- FLAGGER WITH STOP
- SEQUENTIAL OR FLASHING ARROW
- TEMPORARY SIGN
- TRAFFIC FLOW

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PROJECT TITLE
PROPOSED GIGACRETE AFFORDABLE HOUSING (SHOW MODEL/OFFICE)

OWNER: MICRONESIA GREEN BUILDING TECHNOLOGY, LLC MARK MANIBUSAN

LOCATION: LOT 2021-1-1-10-1 NEW, MARINE DRIVE, TAMUNING GUAM

PROJECT TITLE

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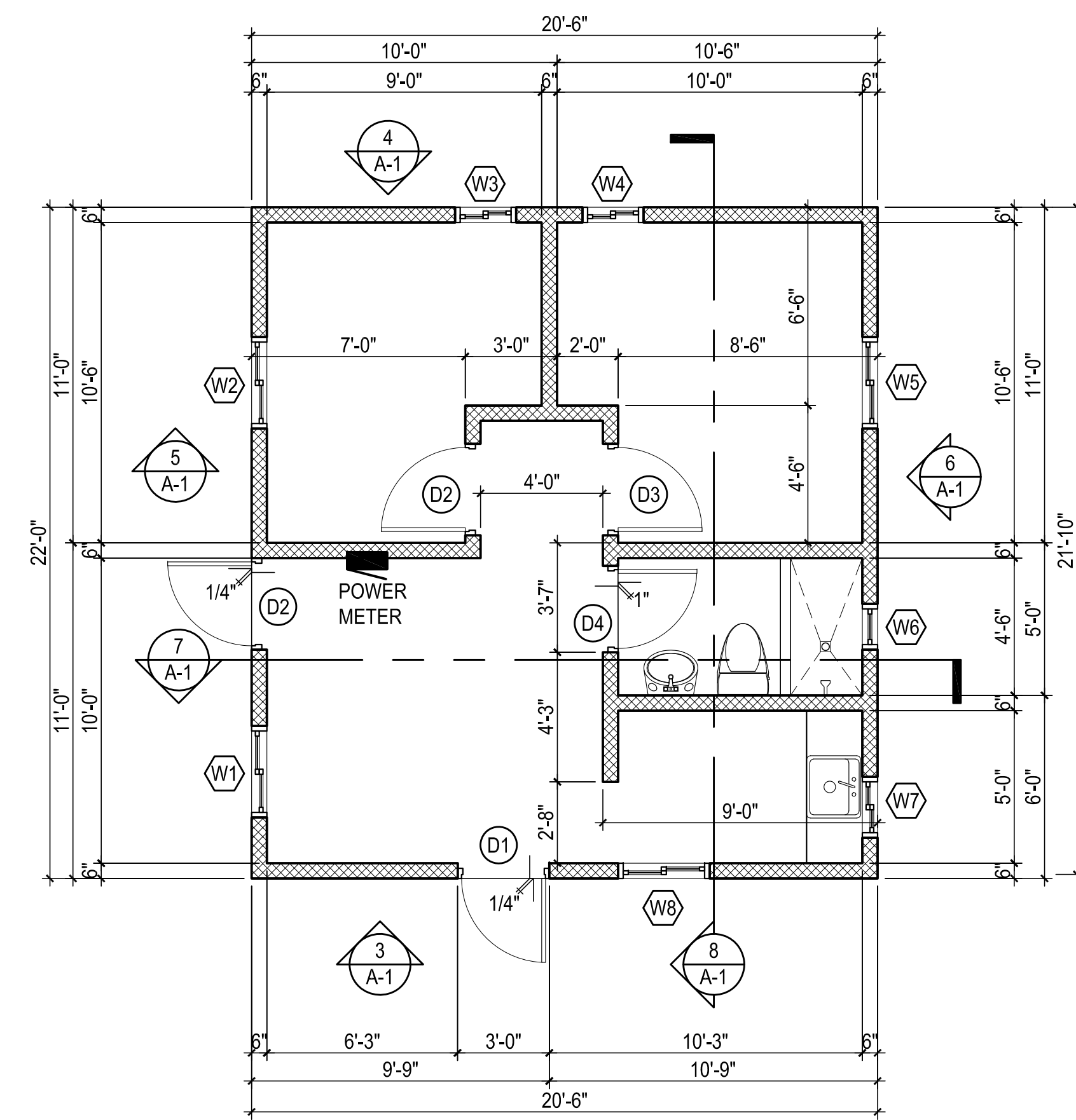
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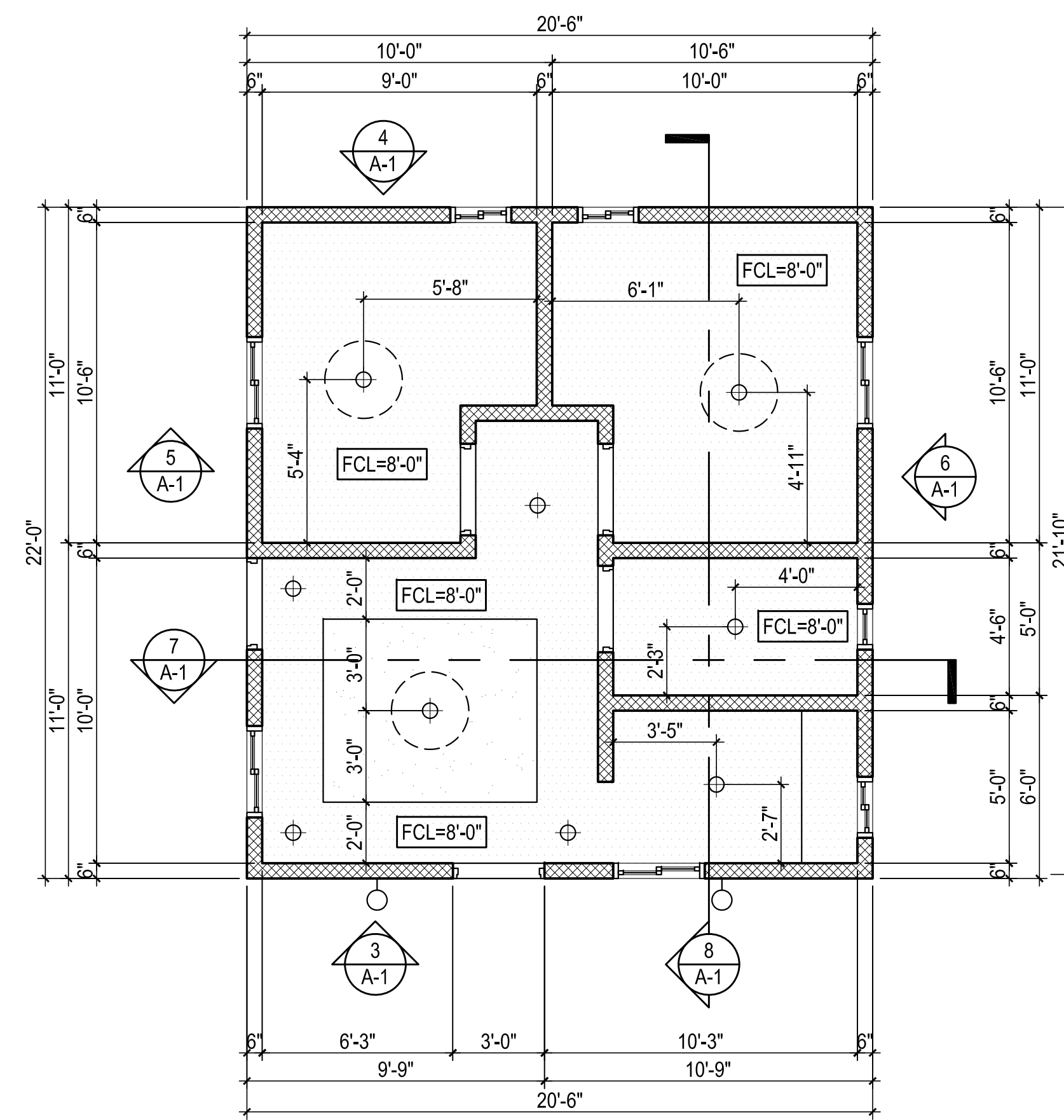
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A-1

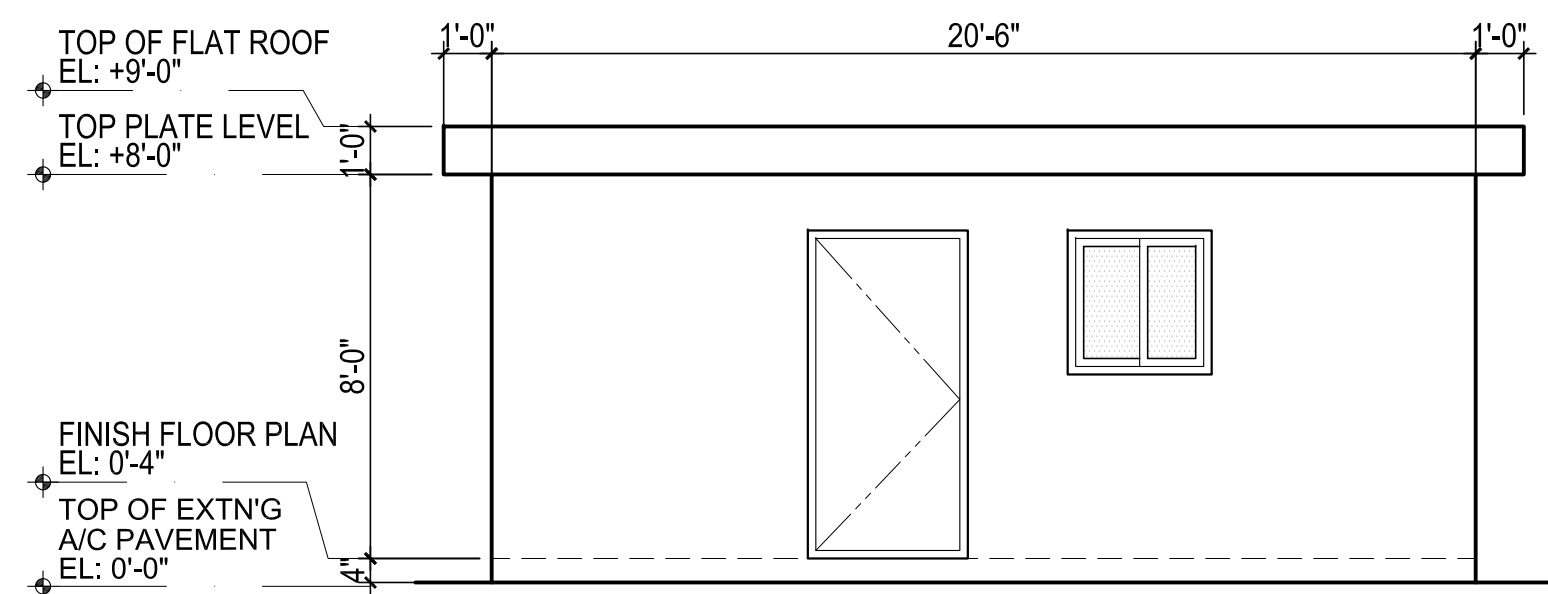
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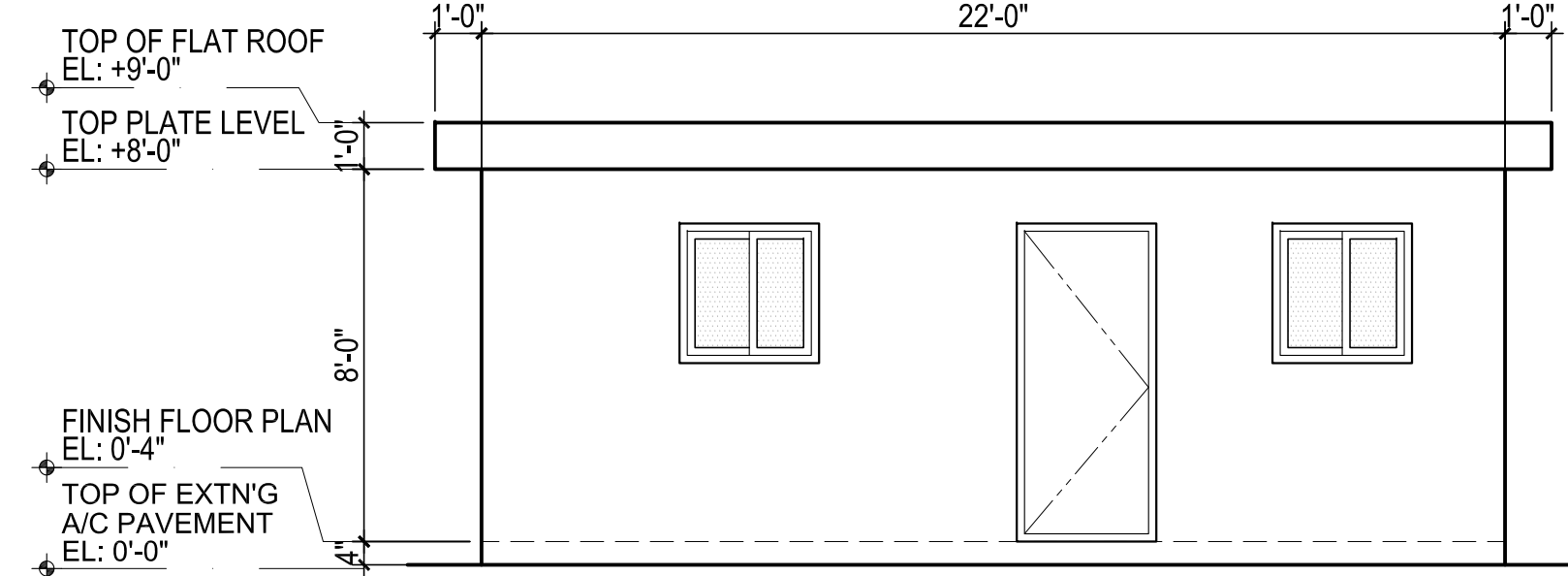
1 FLOOR PLAN
 A-1 SCALE: 1/4" = 1'-0"



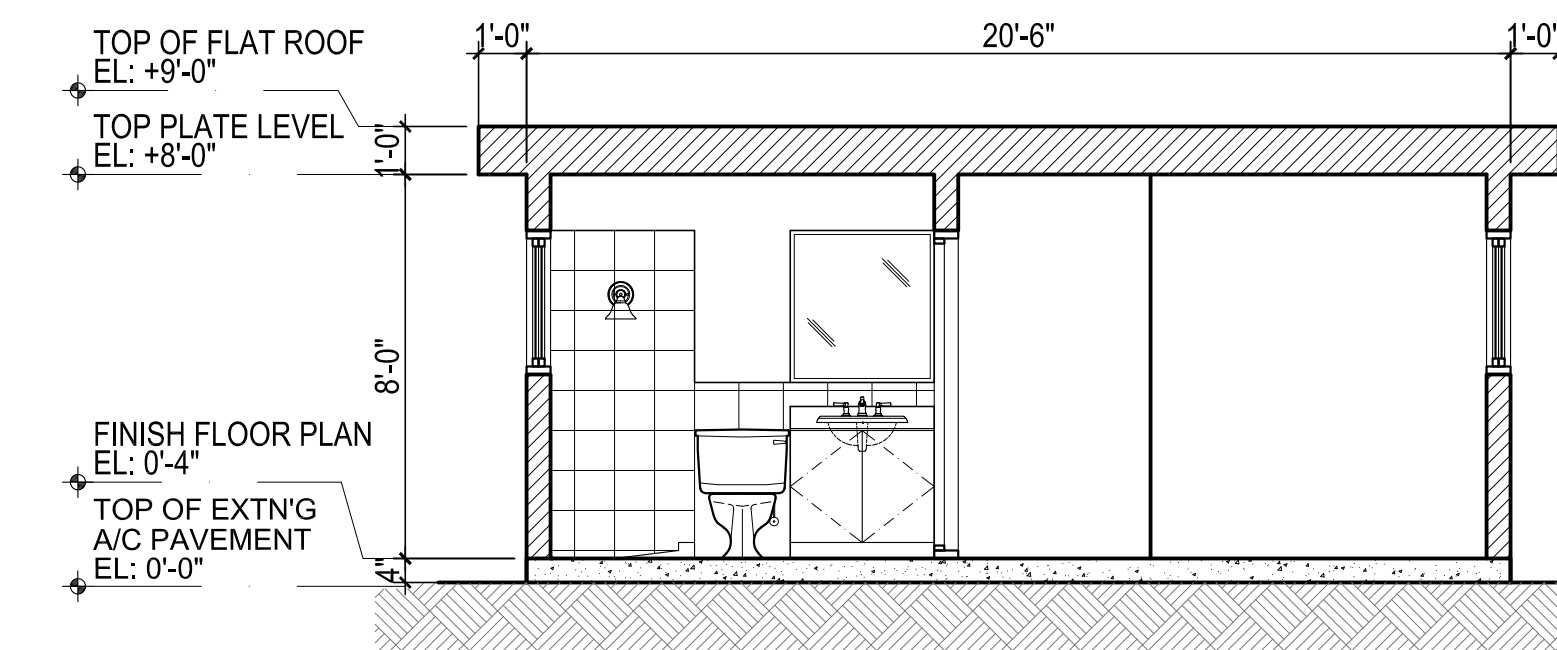
2 REFLECTED CEILING PLAN
 A-1 SCALE: 1/4" = 1'-0"



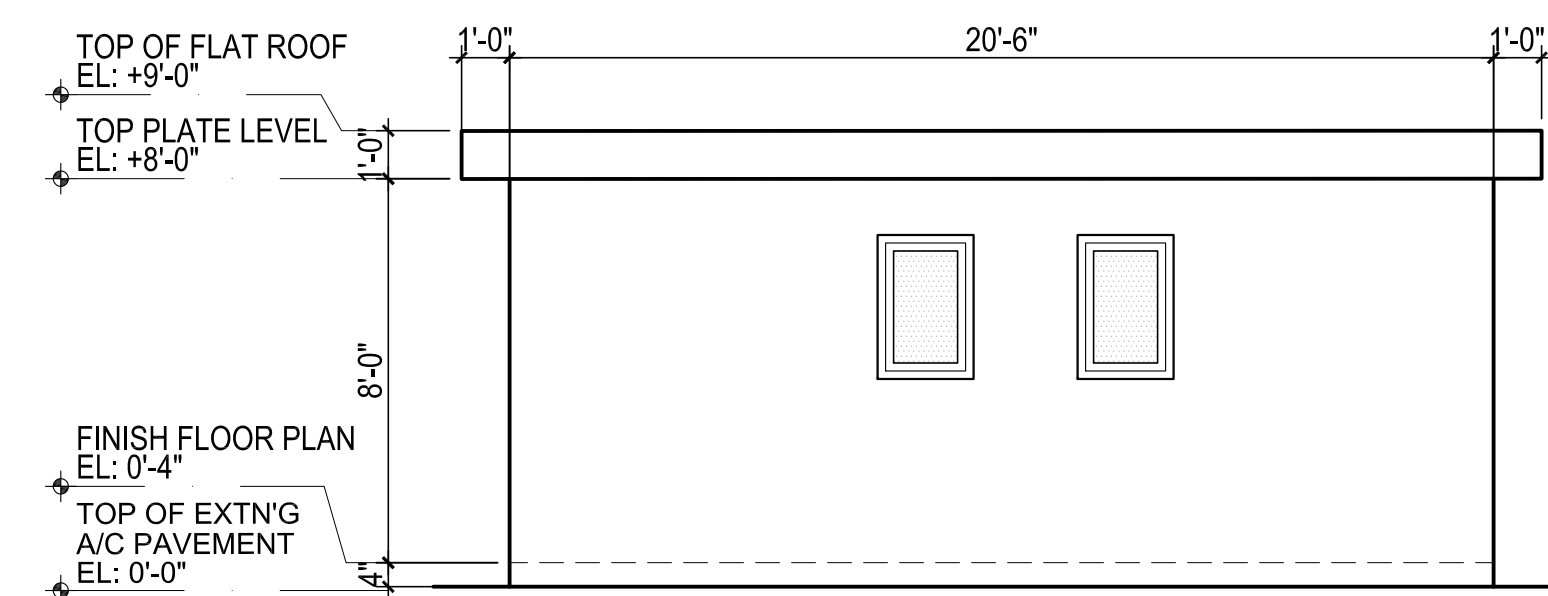
3 FRONT ELEVATION
 A-1 SCALE: 1/4" = 1'-0"



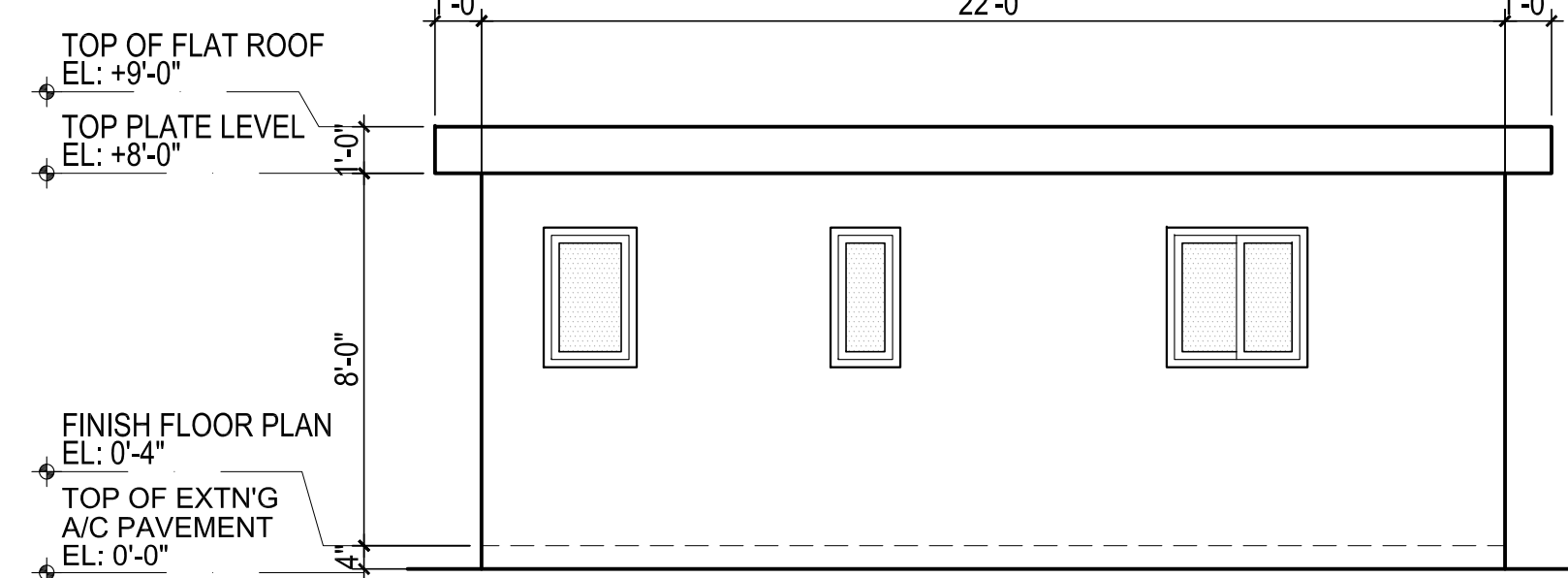
5 LEFT-SIDE ELEVATION
 A-1 SCALE: 1/4" = 1'-0"



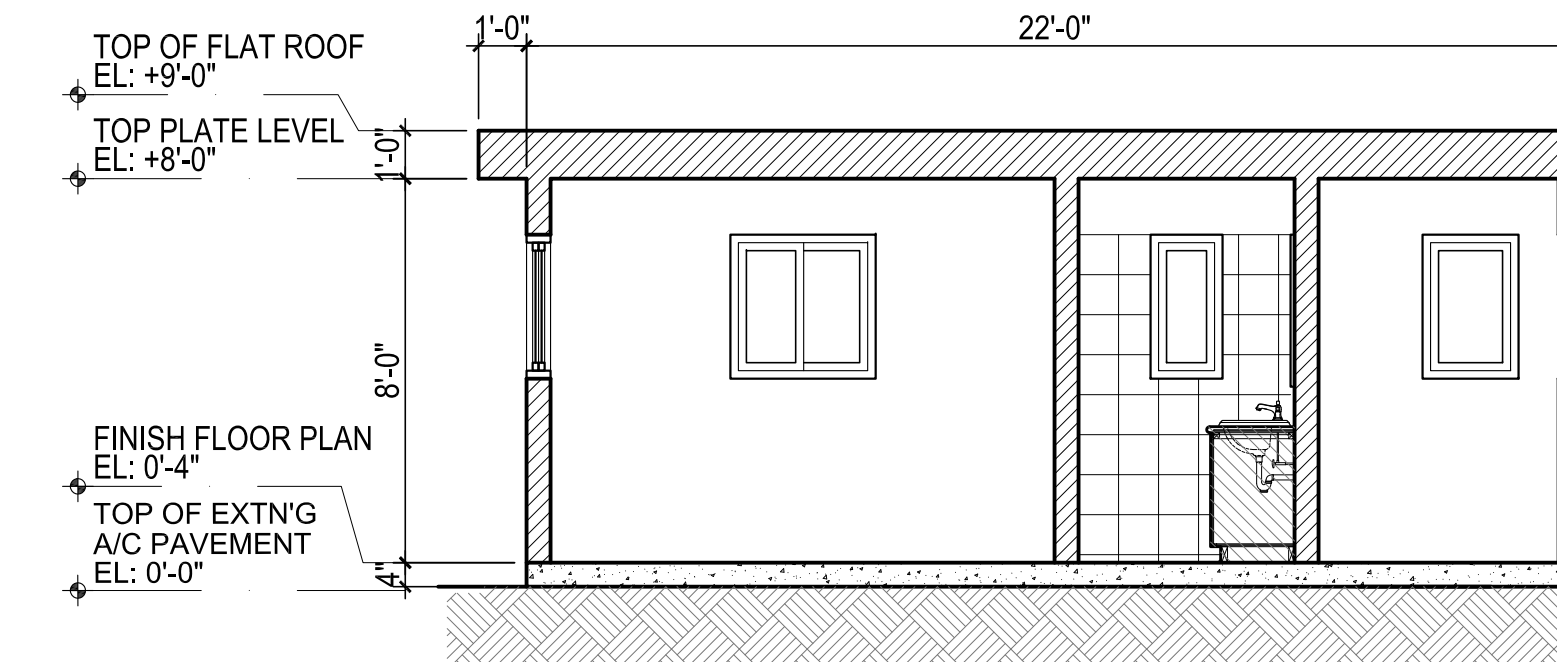
7 CROSS SECTION
 A-1 SCALE: 1/4" = 1'-0"



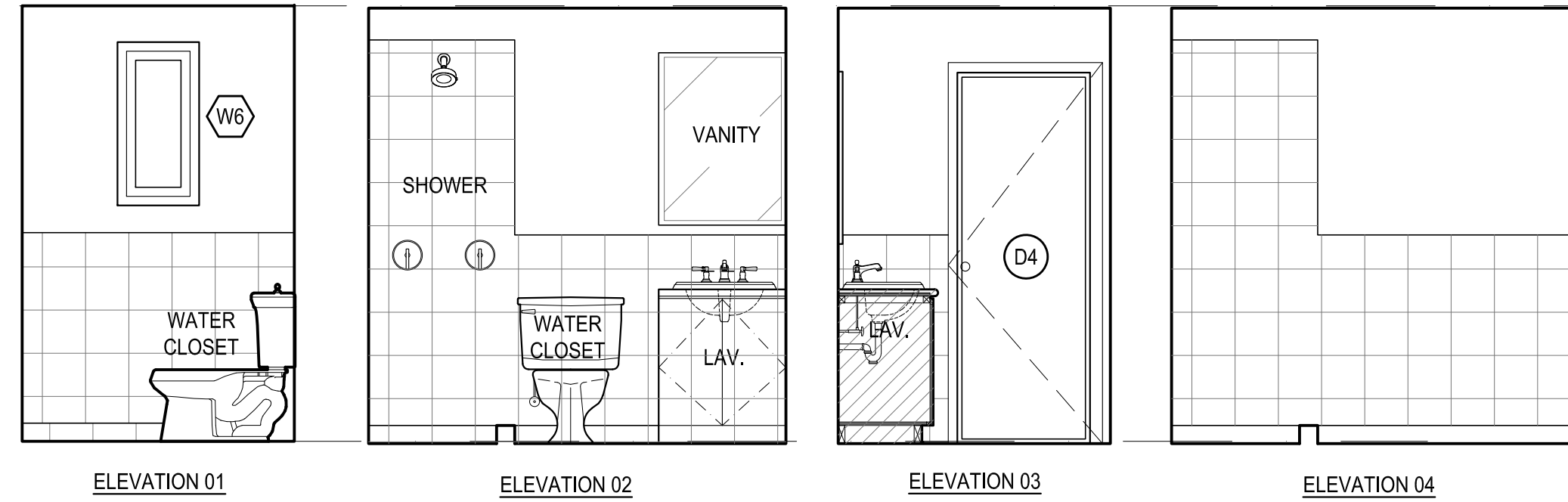
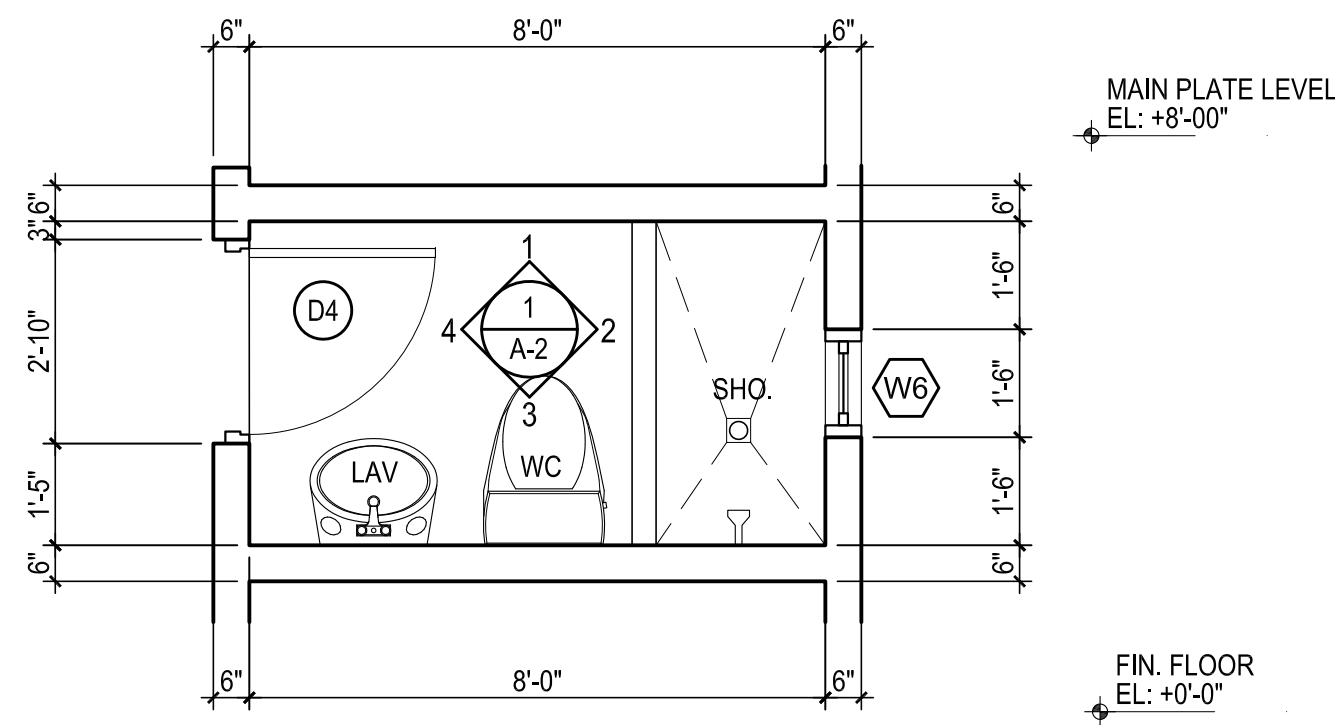
4 REAR ELEVATION
 A-1 SCALE: 1/4" = 1'-0"



6 RIGHT-SIDE ELEVATION
 A-1 SCALE: 1/4" = 1'-0"

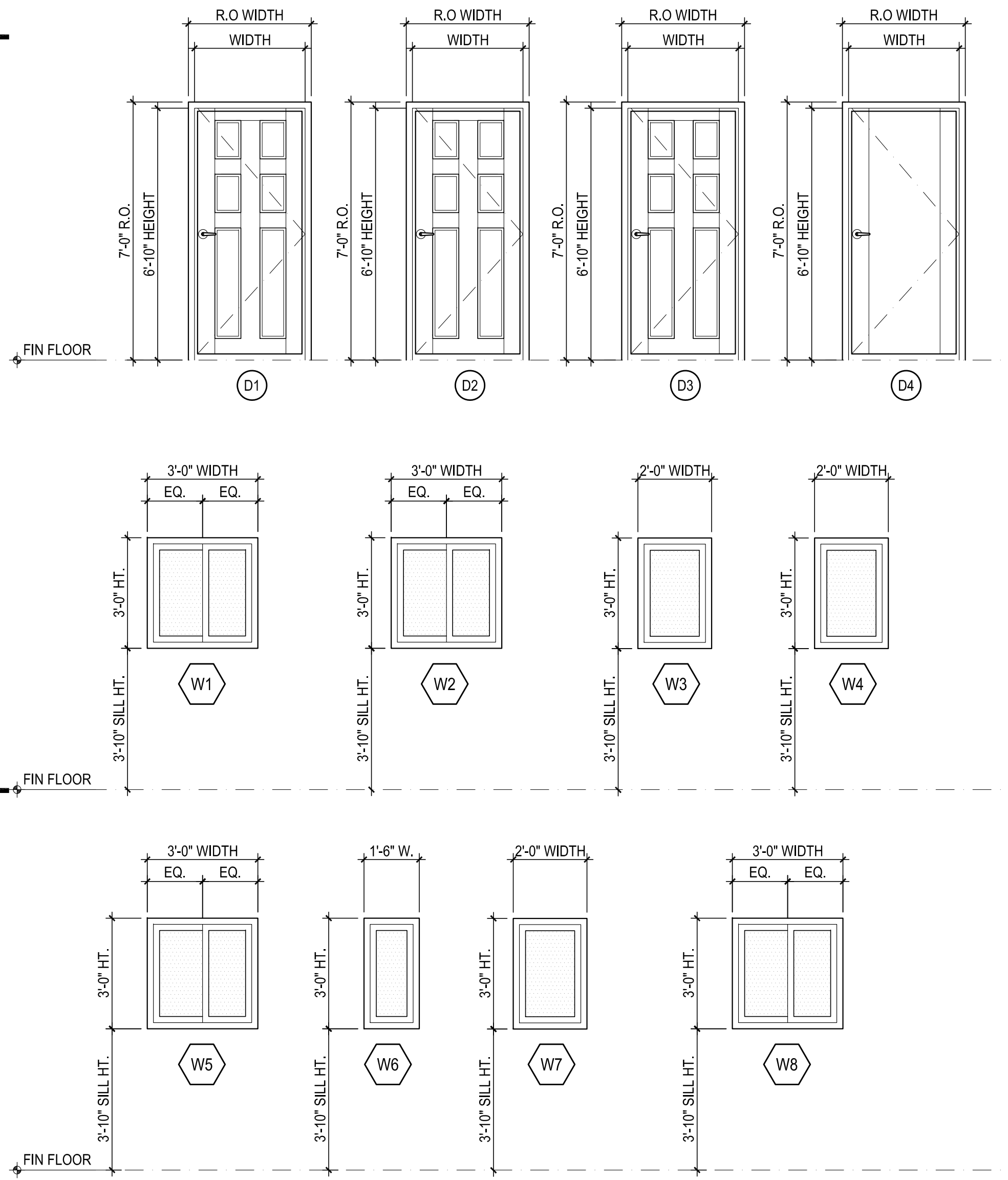


8 LONGITUDINAL SECTION
 A-1 SCALE: 1/4" = 1'-0"



1 TIOLET ENLARGE PLAN
A-2 SCALE: 3/8" = 1'-0"

2 TIOLET ENLARGE ELEVATION
A-2 SCALE: 3/8" = 1'-0"



3 DOORS & WINDOWS SCHEDULE
A-2 SCALE: 3/8" = 1'-0"

DOOR SCHEDULE

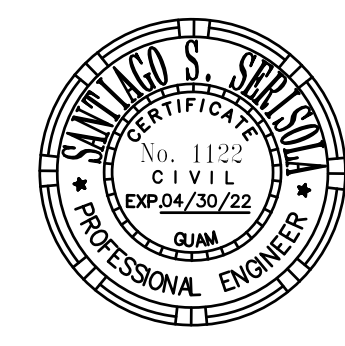
MARK	DOOR							ROUGH OPENING		FRAME					NOTES	
	SIZE			MATERIAL	FINISH	COLOR	GLASS	WIDTH	HEIGHT	MATERIAL	FINISH	COLOR	DETAILS			
	WIDTH	HEIGHT	THK										HEAD	JAMB		THRESH
D1	32"	6'-10"	1 3/4"	SOLID CORE	PAINT	TBD	-	3'-0"	7'-0"	WOOD	LACQUER FINISH	TBD	4/A-3	4/A-3	4/A-3	SOLID WOOD DOOR
D2	32"	6'-10"	1 3/4"	SOLID CORE	PAINT	TBD	-	3'-0"	7'-0"	WOOD	LACQUER FINISH	TBD	4/A-3	4/A-3	4/A-3	SOLID WOOD DOOR
D3	32"	6'-10"	1 3/4"	SOLID CORE	PAINT	TBD	-	3'-0"	7'-0"	WOOD	LACQUER FINISH	TBD	4/A-3	4/A-3	4/A-3	SOLID WOOD DOOR
D4	30"	6'-10"	1 3/4"	PVC	PAINT	TBD	-	2'-10"	7'-0"	PVC	PVC	TBD	4/A-3	4/A-3	4/A-3	PVC DOOR

- DOORS: GENERAL NOTES**
- SEE FLOOR PLANS FOR DOOR SYMBOLS
 - EXTERIOR GLASS, FRAMES & INSTALLATION MUST BE ENGINEERED TO MEET THE MINIMUM OF 175 MPH TYPHOON WIND REQUIREMENTS
 - FIELD VERIFY ALL ROUGH OPENING DIMENSIONS INCLUDING EXISTING OPENINGS BEFORE FABRICATION
 - FOR CLARITY, DOOR TRIMS/ CASINGS ARE NOT SHOWN IN THE ELEVATION DRAWINGS

WINDOW SCHEDULE

MARK	HEIGHT	WIDTH	SILL HEIGHT	WINDOW FRAME			WINDOW		DETAILS				NOTES
				MATERIAL	FINISH	COLOR	MATERIAL	COLOR	HEAD	JAMB	SILL	MULLION	
W1	3'-0"	3'-0"	3'-10"	ALUMINUM	POWDER COATED	TBD	LAMINATED GLASS	CLEAR	3/A-3	3/A-3	3/A-3	-	FIXED WINDOW W/ TRANSOM
W2	3'-0"	3'-0"	3'-10"	ALUMINUM	POWDER COATED	TBD	LAMINATED GLASS	CLEAR	3/A-3	3/A-3	3/A-3	-	FIXED WINDOW W/ TRANSOM
W3	3'-0"	2'-0"	3'-10"	ALUMINUM	POWDER COATED	TBD	LAMINATED GLASS	CLEAR	3/A-3	3/A-3	3/A-3	-	FIXED WINDOW W/ TRANSOM
W4	3'-0"	2'-0"	3'-10"	ALUMINUM	POWDER COATED	TBD	LAMINATED GLASS	CLEAR	3/A-3	3/A-3	3/A-3	-	FIXED WINDOW W/ TRANSOM
W5	3'-0"	3'-0"	3'-10"	ALUMINUM	POWDER COATED	TBD	LAMINATED GLASS	CLEAR	3/A-3	3/A-3	3/A-3	-	FIXED WINDOW W/ TRANSOM
W6	3'-0"	1'-6"	3'-10"	ALUMINUM	POWDER COATED	TBD	LAMINATED GLASS	CLEAR	3/A-3	3/A-3	3/A-3	-	FIXED WINDOW
W7	3'-0"	2'-0"	3'-10"	ALUMINUM	POWDER COATED	TBD	LAMINATED GLASS	CLEAR	3/A-3	3/A-3	3/A-3	-	CORNER SLIDING WINDOW
W8	3'-0"	3'-0"	3'-10"	ALUMINUM	POWDER COATED	TBD	LAMINATED GLASS	CLEAR	3/A-3	3/A-3	3/A-3	-	SLIDING WINDOW

- WINDOWS: GENERAL NOTES**
- EXTERIOR GLASS, FRAMES & INSTALLATION MUST BE ENGINEERED TO MEET THE MINIMUM OF 175 MPH TYPHOON WIND REQUIREMENTS
 - SPECIAL COATED GLASS WINDOWS WITH A SOLAR HEAT GAIN COEFFICIENT (SC) LESS THAN OR EQUAL TO 0.50, REFER TO PAGE 5, TABLE 4.3.3. OF GUAM BUILDING ENERGY CODE & IMPACT ANALYSIS.
 - OVERALL DIMENSIONS SHOWN MUST BE VERIFIED WITH ACTUAL ROUGH OPENINGS PRIOR TO FABRICATION
 - OWNER WILL SUPPLY WINDOWS & SLIDING GLASS



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LOCATION: LOT 2021-1-1-10-1NEW, MARINE DRIVE, TAMUNING GUAM

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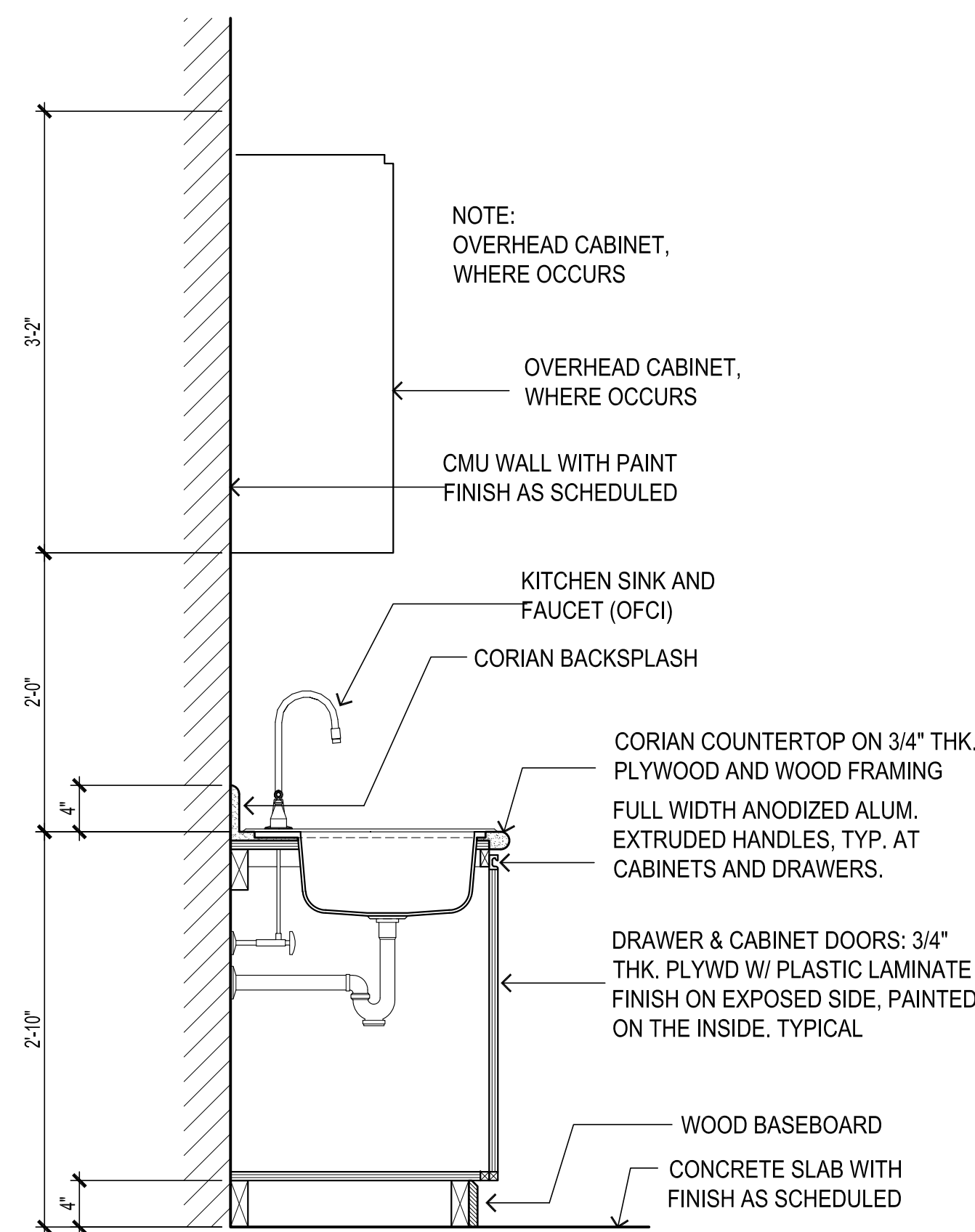
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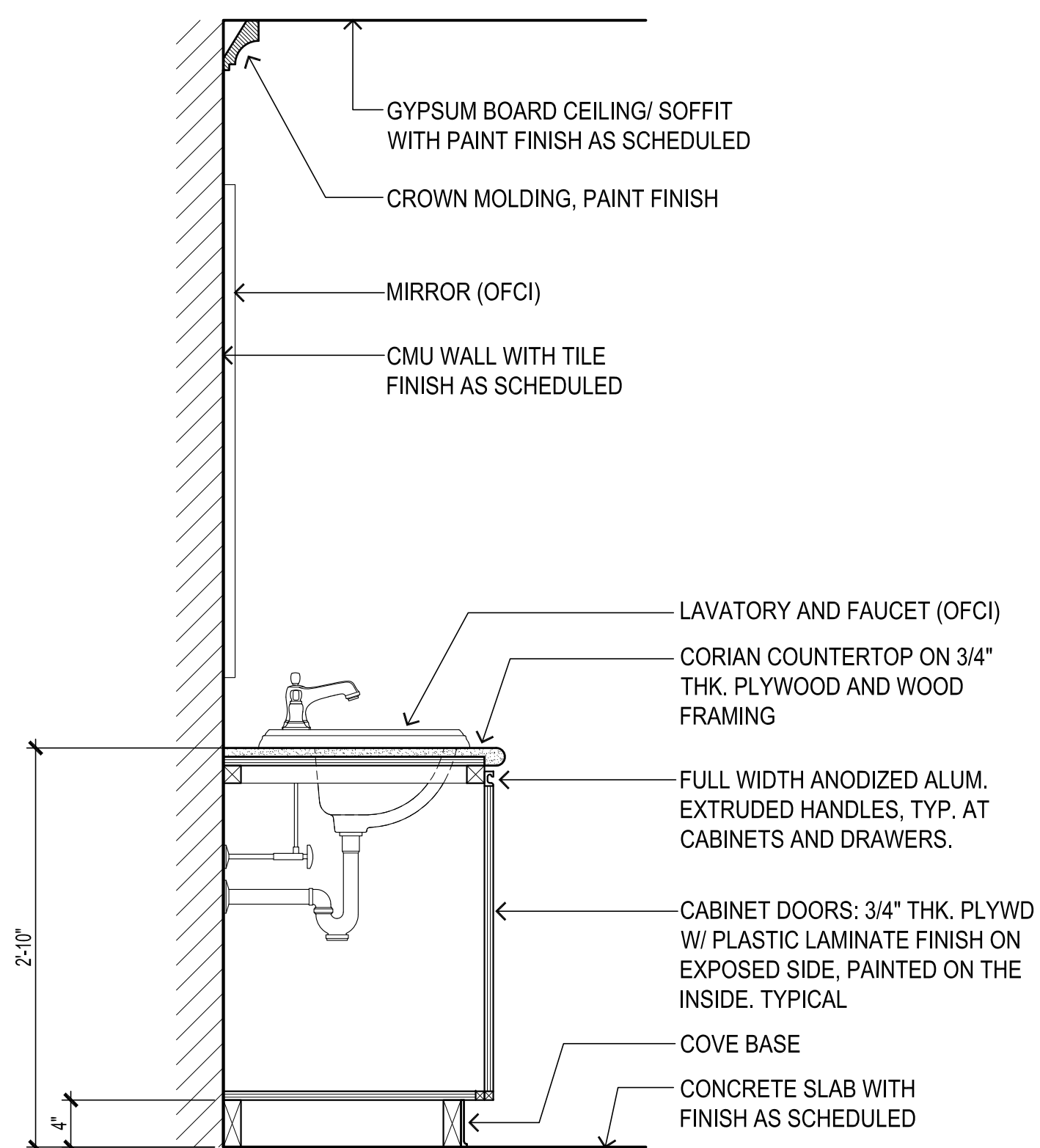
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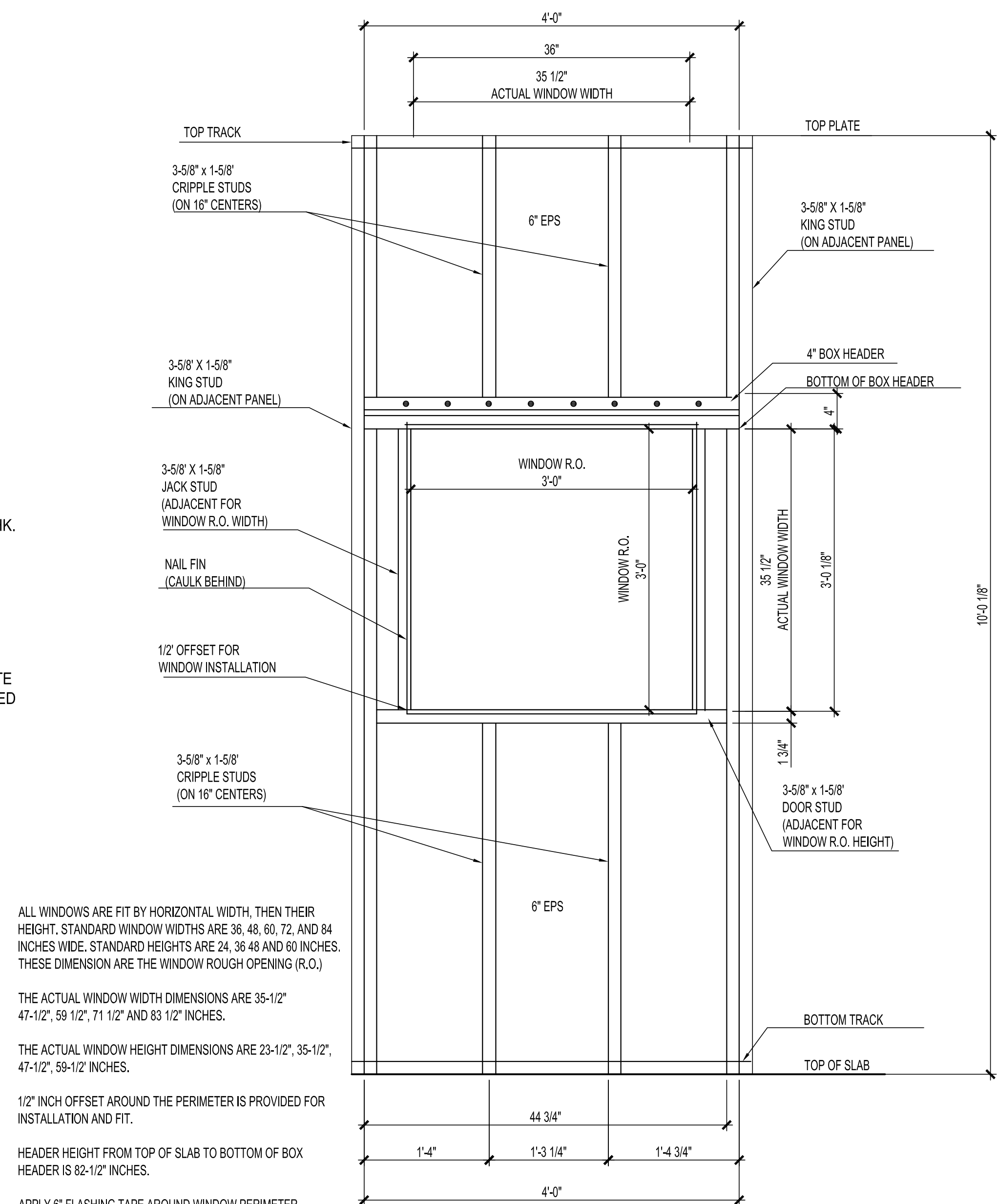
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1 KITCHEN COUNTER DETAIL
A-3 SCALE: 1" = 1'-0"



2 BATHROOM COUNTER DETAIL
A-3 SCALE: 1" = 1'-0"



ALL WINDOWS ARE FIT BY HORIZONTAL WIDTH, THEN THEIR HEIGHT. STANDARD WINDOW WIDTHS ARE 36, 48, 60, 72, AND 84 INCHES WIDE. STANDARD HEIGHTS ARE 24, 36, 48 AND 60 INCHES. THESE DIMENSIONS ARE THE WINDOW ROUGH OPENING (R.O.)

THE ACTUAL WINDOW WIDTH DIMENSIONS ARE 35-1/2" 47-1/2", 59 1/2", 71 1/2" AND 83 1/2" INCHES.

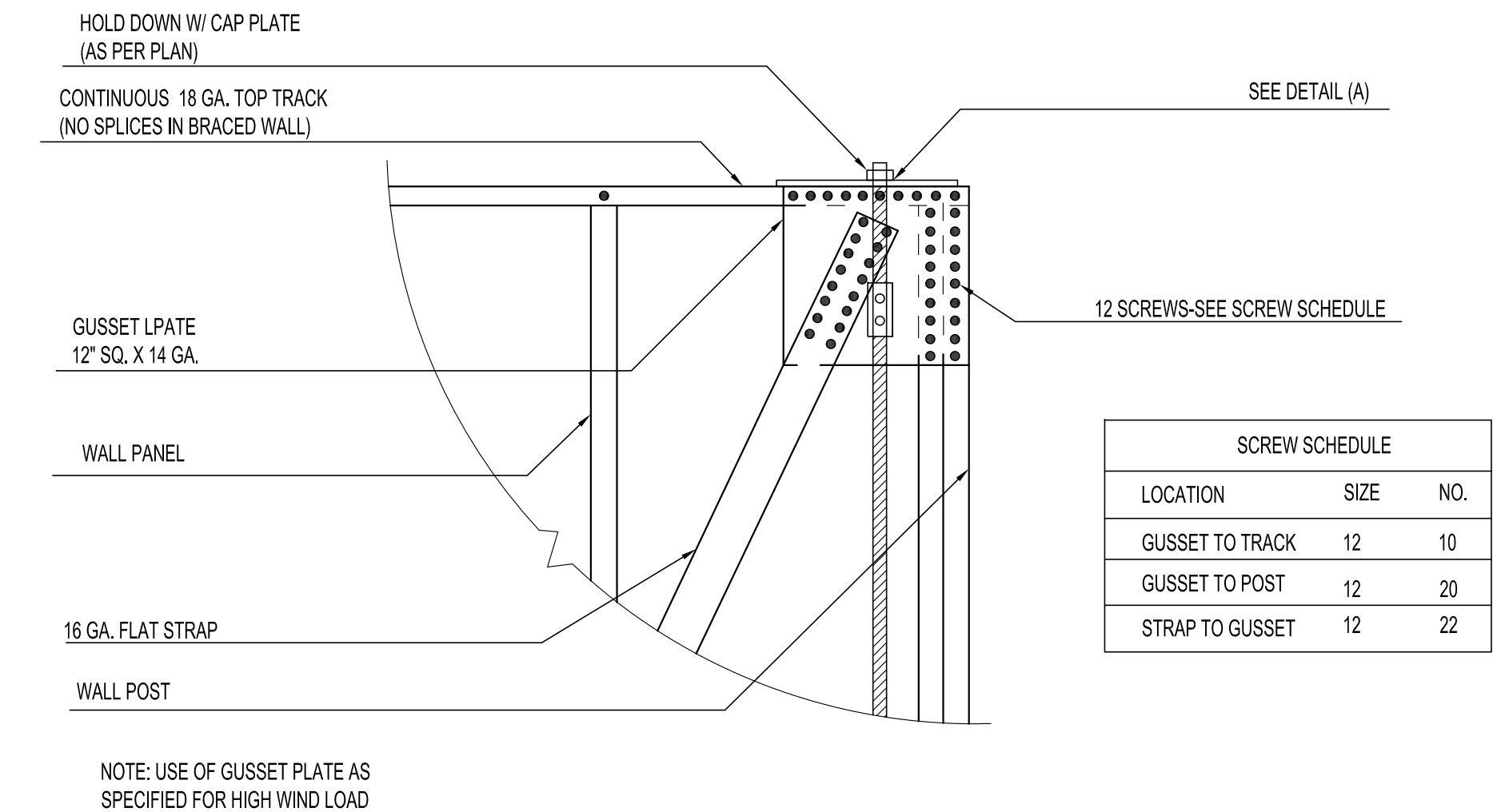
THE ACTUAL WINDOW HEIGHT DIMENSIONS ARE 23-1/2", 35-1/2", 47-1/2", 59-1/2" INCHES.

1/2" INCH OFFSET AROUND THE PERIMETER IS PROVIDED FOR INSTALLATION AND FIT.

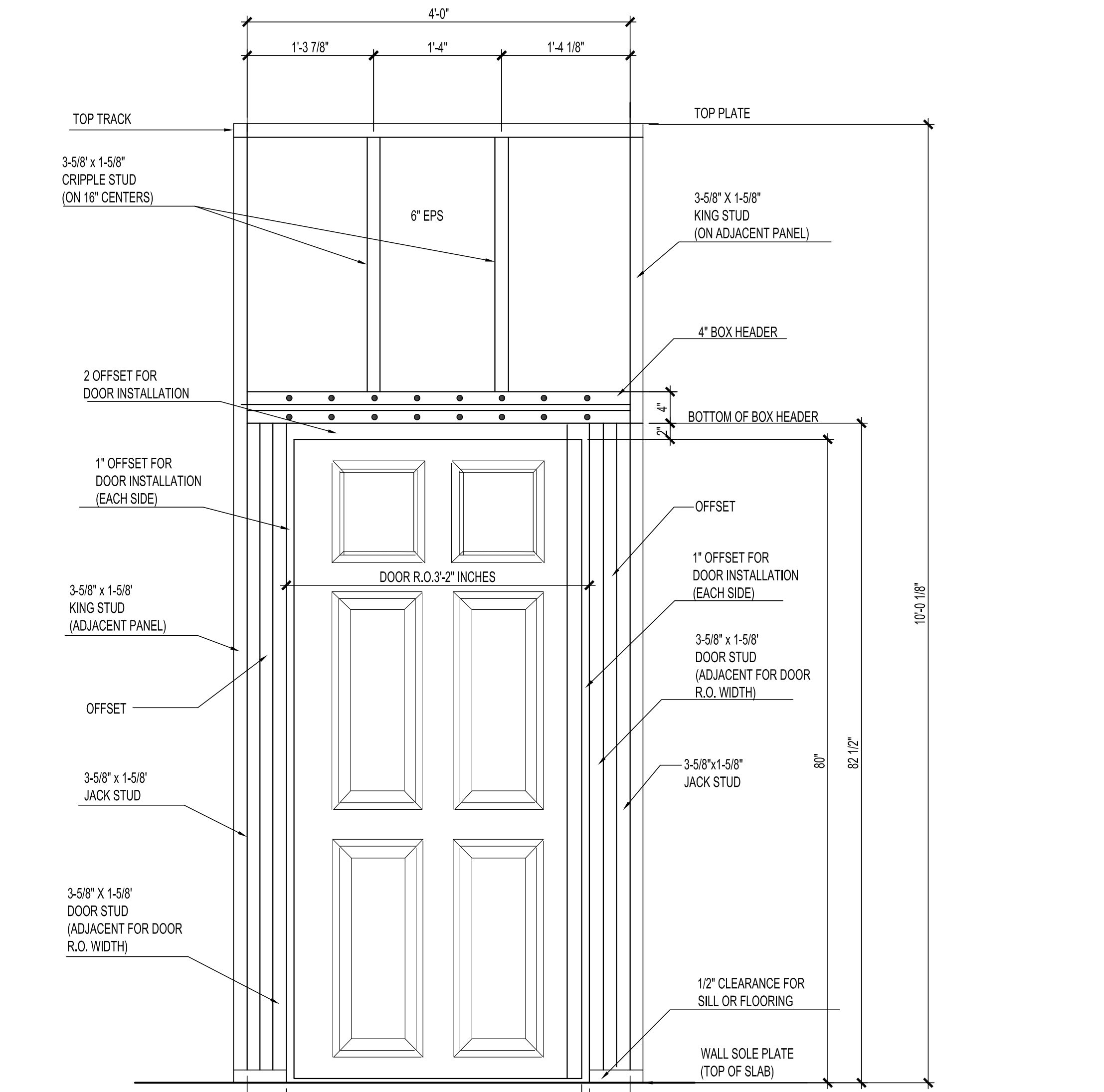
HEADER HEIGHT FROM TOP OF SLAB TO BOTTOM OF BOX HEADER IS 82-1/2" INCHES.

APPLY 6" FLASHING TAPE AROUND WINDOW PERIMETER

3 36" WINDOW INSTALLATION (6" WALL TYPICAL)
A-3 SCALE: 1" = 1'-0"

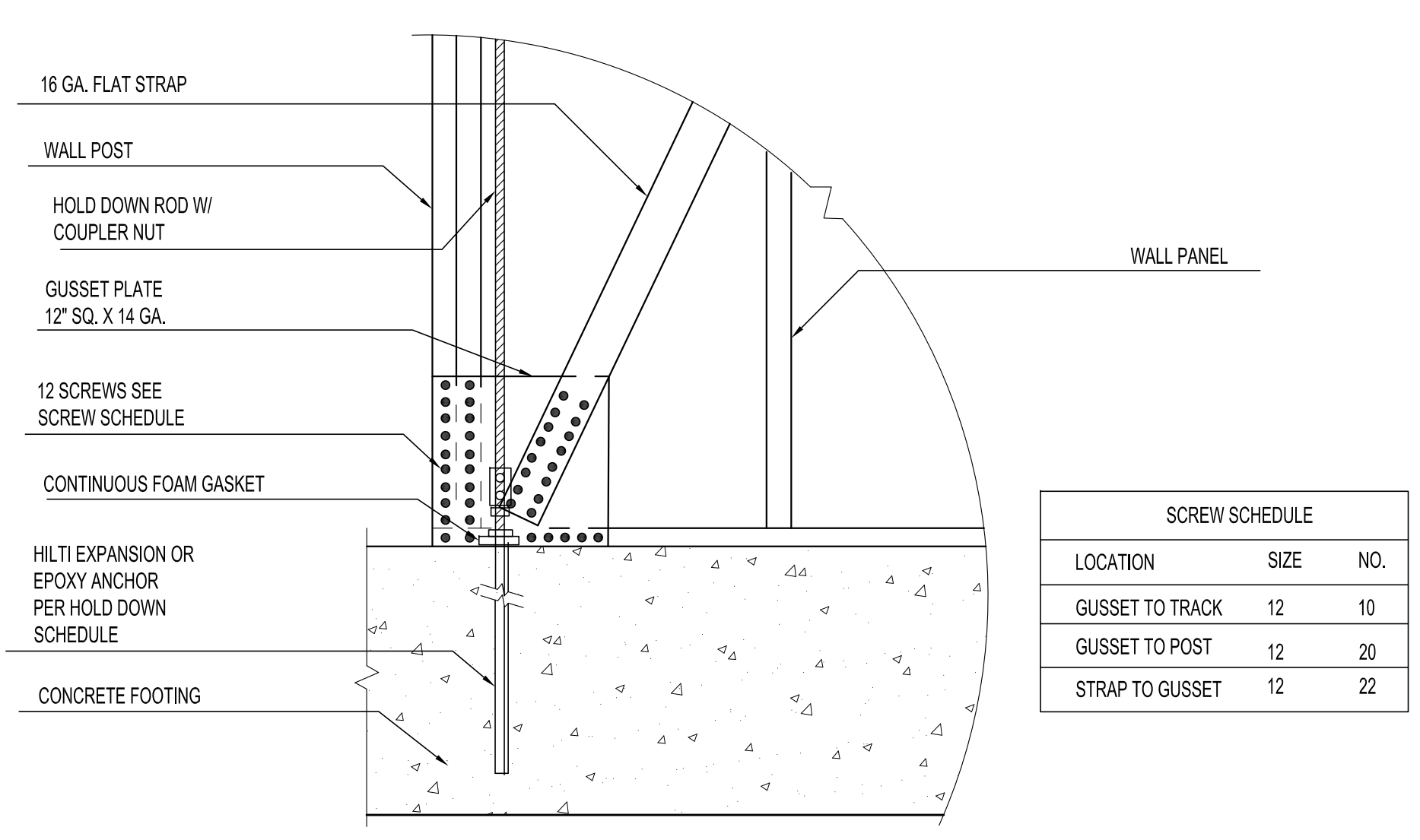


5 BRACED WALL AT TOP TRACK (TYP.) HIGH WIND LOAD CONFIGURATION
A-3 SCALE: 1" = 1'-0"



ALL WINDOWS ARE FIT BY HEIGHT, THEN HORIZONTAL WIDTH. STANDARD DOOR HEIGHT IS 80 INCHES, AND STANDARD WIDTH SIZE ARE 24, 28, 30, 32 AND 36 INCHES ROUGH OPENING (R.O.) DIMENSIONS ARE DETERMINED BY ADDING 2" TO THE ACTUAL DOOR WIDTH AND 2-1/2" TO THE ACTUAL DOOR HEIGHT. A 1 INCH OFFSET AROUND EACH SIDE OF THE DOOR IS STANDARD FOR INSTALLATION AND FIT. A 2 INCH OFFSET AT THE TOP OF THE DOOR IS STANDARD FOR INSTALLATION AND FIT. A 1/2" INCH CLEARANCE IS STANDARD BELOW THE ACTUAL DOOR FOR EXTERIOR SILL OR INTERIOR FLOORING. HEADER HEIGHT FROM THE TOP OF SLAB TO BOTTOM OF BOX HEADER IS 82-1/2" INCHES.

4 36" DOOR INSTALLATION (TYPICAL)
A-3 SCALE: 1" = 1'-0"



6 BRACED WALL AT FOUNDATION (TYP.) HIGH WIND LOAD CONFIGURATION
A-3 SCALE: 1" = 1'-0"



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OWNER: MICRONESIA GREEN BUILDING TECHNOLOGY, LLC MARK MANIBUSAN

LOCATION: LOT 2021-1-1-10-1NEW, MARINE DRIVE, TAMUNING GUAM

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STRUCTURAL NOTES

GENERAL

- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES.
- DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE SHOWN ON DRAWINGS.
- NOTES AND DETAIL ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
- ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWS CODES.
- SEE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING:
- SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS, EXCEPT AS NOTED.
- SIZE AND LOCATION OF ALL INTERIOR AND EXTERIOR NON-BEARING PARTITIONS, DEPRESSED AREAS, CHANGES IN LEVEL, CHAMBER GROOVES, INSERTS, ETC.
- SIZE AND LOCATION OR FLOOR AND ROOF OPENINGS EXCEPT AS NOTED.
- FLOOR AND ROOF FINISHES.
- DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.
- SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:
- PIPE RUNS, SLEEVES, HANGER, TRENCHES, WALL AND SLABE OPENINGS, ETC., EXCEPT OR NOTED.
- ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALL SLABS.
- CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL OR PLUMBING FIXTURES.
- SIZE AND LOCATION OR MACHINE OR EQUIPMENT BASES, ANCHOR BOLTS FOR MOUNTS.
- THE CONTRACTS STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PRO-VIDE ALL NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE. BUT NOT LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CON-STRUCTION EQUIPMENT, ETC OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
- OPENINGS, POCKETS, ETC. LARGER THAN 6 INCHES SHALL NOT BE PLACED IN SLABS, DECKS, BEAMS, JOISTS, COLUMNS, WALLS, ETC., UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS. NOTIFY THE STRUCTURAL ENGINEER WHEN DRAWINGS BY OTHERS SHOW OPENINGS, POCKETS, ETC., NOT SHOWN ON THE STRUCTURAL DRAWINGS BUT WHICH ARE LOCATED ON STRUCTURAL MEMBERS.
- ASTM SPECIFICATIONS NOTED SHALL BE THE LATEST REVISION.
- CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS ETC. IF ANY SUCH STRUCTURES ARE FOUND, THE STRUCTURAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
- CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FLOORS OR ROOF. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE STRUCTURE HAS NOT ATTAINED DESIGN STRENGTH.

DESIGN CRITERIA:

- GOVERNING BUILDING CODE IBC 2018, IRC 2012, NEC 2011
- GRAVITY DESIGN:
ROOF
DEAD LOAD: ACTUAL
LIVE LOAD: 20.0 PSF
SNOW LOAD: NOT APPLICABLE
- SEISMIC LOAD: SEISMIC USE GROUP 1
SPECTRAL RESPONSE COEFFICIENT: $S_{ds} = 0.461g$; $S_{d1} = 0.237g$; $S_1 = 0.167g$,
 $S_{ms} = 0.691g$; AND $S_{m1} = 0.356g$

SITE CLASS D
BASIC SEISMIC-FORCE-RESISTING SYSTEM:
LIGHT FRAME WALLS WITH SHEAR PANELS (WOOD STRUCTURAL PANELS), R = 6.5.
DESIGN BASE SHAER:
 $V = 0.072 \times W$ (BASE SHEAR / SHEAR WALLS IN-PLANE FORCES)
ANALYSIS PROCEDURE: SIMPLIFIED PROCEDURE
SEISMIC DESIGN CATEGORY D
- WIND LOAD:
BASIC WIND SPEED: 195 MPH
EXPOSURE: C
WIND IMPORTANCE FACTOR (I): 1.0
BUILDING CATEGORY: 1
- FLOOD LOAD: NOT APPLICABLE
- SPECIAL LOADS: NOT APPLICABLE

FOUNDATION

- THE FOUNDATION IS DESIGNED PER RECOMMENDATION BY:
- CONTRACTOR SHALL PROVIDE FOR PROPER DE-WATERING OF EXCAVATION FROM SURFACE WATER, GROUND WATER, SEEPAGE, ETC.,
- FOOTING SHALL BE PLACED AND ESTIMATED ACCORDING TO DEPTHS SHOWN ON THE DRAWINGS, AND AS RECOMMENDED IN THE SOILS REPORT.
- FOOTING BACKFILL AND UTILITY TRENCH BACKFILL WITHIN BUILDING AREA. SHALL BE MECHANICALLY COMPACTED IN LATER. FLOODING WILL BE NOT PERMITTED.
- ALL ABANDONED FOOTINGS, UTILITIES, ETC. THAT INTERFERE WITH NEW CONSTRUCTION SHALL BE REMOVED.

CONCRETE

- ALL PHASES OF WORK PERTAINING TO THE CONCRETE CONSTRUCTION SHALL CONFORM TO THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318 LATEST APPROVED EDITION) WITH MODIFICATIONS AS NOTED IN THE DRAWINGS AND SPECIFICATIONS.
- REINFORCED CONCRETE DESIGN IS BY THE "ULTIMATE STRENGTH DESIGN METHOD" LATEST APPROVED EDITION OF ACI BUILDING CODE 318.
- STRUCTURAL CONCRETE 28 DAY STRENGTHS AND TYPES:
LOCATION IN STRUCTURE STRENGTH PSI TYPE
SLAB ON GRADE 2500 HARD ROCK
FOOTINGS 2500 HARD ROCK
DESIGN BASED ON 2500 PSI, 28 DAY STRENGTH, THEREFORE, SPECIAL INSPECTION IS NOT REQUIRED.
NOTE: FOR HIGH SULFATE AREAS AND WHERE RECOMMENDED IN THE SOIL REPORT, 4500 PSI MIX CONCRETE SHOULD BE USED. SPECIAL INSPECTION IS REQUIRED.
- CONCRETE MIX DESIGN SHALL ABE SUBMITTED TO THE ENGINEER FOR APPROVAL WITH THE FOLLOWING REQUIREMENTS:
A. COMPRESSIVE STRENGTH AT AGE 28 DAYS AS SPECIFIED ABOVE.
B. LARGE AGGREGATE - HARD ROCK 3/4" MAXIMUM SIZE CONFORMING TO ASTM C-33. AND AGGREGATE FOR LIGHT WEIGHT CONCRETE SHALL CONFORM TO ASTM C-33.
C. CEMENT - ASTM C-150, TYPE V PORTLAND CEMENT, 5 SACKS PER CUBIC YARD MINIMUM
D. ENTRAINED AIR - 3% TO 6%.
E. MAXIMUM WATER - CEMENT RATIO 0.45.
F. MAXIMUM SLUMP 4-INCHES.
G. NO ADMIXTURES, EXCEPT FOR ENTRAINED AIR, AND AS APPROVED BY THE ENGINEER.
H. EXCEPTION MAY BE USED ONLY WITH PERMISSION OF THE STRUCTURAL ENGINEER.
- CONCRETE MIXING OPERATIONS, ETC, SHALL CONFORM TO ASTM C-94.
- PLACEMENT OF CONCRETE SHALL CONFORM TO ACI STANDARD 614 AND PROJECT SPECIFICATION.
- CLEAR COVERAGE OF CONCRETE OVER OUTER REINFORCING BARS SHALL BE AS FOLLOWS:
CONCRETE POURED DIRECTLY AGAINST EARTH - 3 INCHES CLEAR
STRUCTURAL SLABS - 3/4 INCHES CLEAR (TOP AND BOTTOM)
FORMED CONCRETE WITH EARTH BACKFILL - 2 INCHES CLEAR
- ALL REINFORCING BARS, ANCHOR BOLTS AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.
- PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL OPENINGS IN CONCRETE BEFORE PLACING DO NOT CUT ANY REINFORCING WHICH MAY CONFLICT. CORING IN CONCRETE IS NOT PERMITTED EXCEPT AS SHOWN. NOTIFY THE STRUCTURAL ENGINEER IN ADVANCE OR CONDITIONS NOTSHOWN ON THE DRAWINGS.
- CONDUIT OR PIPE SIZE (O.D.) SHALL NOT EXCEED 30% OF SLAB THICKNESS AND SHALL BE PLACED BETWEEN THE TOP AND BOTTOM REINFORCING UNLESS SPECIFICALLY DETAILED OTHERWISE CONCENTRATIONS OF CONDUITS OR PIPES SHALL BE AVOIDED EXCEPT WHERE DETAILED OPENINGS ARE PROVIDED.
- MODULUS OF ELASTICITY OF CONCRETE, WHEN TESTED IN ACCORDANCE WITH ASTM C1060, SHALL BE AT LEAST THE VALUE GIVEN BY THE EQUATIONS IN SECTION 8.5.1 OF ACI 318 FOR THE SPECIFIED 28-DAY STRENGTH.
- SHRINKAGE OF CONCRETE, WHEN TESTED IN ACCORDANCE WITH ASTM C-157, SHALL NOT EXCEED 0.00040 INCHES/INCH.

REINFORCING STEEL (FOR CONCRETE)

- REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-615 GRADE 40.
- ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
- ALL BARS SHALL BE MARKED SO THEIR IDENTIFICATION CAN BE MADE WHEN THE FINAL IN-PLACE INSPECTION IS MADE.
- REBAR SPLICES ARE TO BE CLASS "C" IN CONCRETE.
- REINFORCING SPLICES SHALL BE MADE ONLY WHERE INDICATED ON THE DRAWINGS.
- DOWELS BETWEEN FOOTINGS AND WALLS OR COLUMNS SHALL BE THE SAME GRADE, SIZE AND SPACING OR NUMBER AS THE VERTICAL REINFORCING, RESPECTIVELY.

STRUCTURAL STEEL

- WELDED JOINTS SHALL CONFORM TO THE PREQUALIFIED JOINT DETAILS AS INDICATED IN THE STRUCTURAL WELDING CODE (AWS D1.1) BY THE AMERICAN WELDING SOCIETY. WELDS SHALL BE MADE USING A FILER METAL HAVING 70 KSI MINIMUM TENSILE STRENGTH. FILLER METAL SHALL HAVE A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT-LBS. AT 0 DEGREES FAHRENHEIT. UNLESS NOTED OTHERWISE. SMAW OR FCAW PROCESSES ARE ACCEPTABLE PROVIDED ALL POWER, CURRENT, AND FELD RATOS ARE SET IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- WELD LENGTHS CALLED FOR ON PLANS ARE THE NET EFFECTIVE LENGTH REQUIRED. WELD SIZE SHALL BE AISC MINIMUM UNLESS A LARGER SIZE IS NOTED.
- WELDING TESTS AND INSPECTIONS. SEE THE SPECIAL INSPECTION SECTION OF THE GEN ERAL NOTES AND PROJECT SPECIFICATIONS.
- ARCHITECTURALLY EXPOSED STRUCTURAL STEEL FRAMING (AESS), WHEN NOTED ON THE DRAWINGS. SHALL CONFORM ALL REQUIREMENTS NOTED IN THE PROJECT SPECIFICATIONS.
- ANCHOR STUDS, SHEAR STUDS, AND DEFROMED ANCHORS:
A. SHALL BE MANUFACTURED BY NELSON STUD WELDING CO. OR APPROVED EQUAL
B. HEADED STUDS (SHEAR AND ANCHOR) SHALL BE MADE OF MATERIAL CONFORMING TO ASTM A108.
C. DEFORMED ANCHORS SHALL BE MADE OF MATERIALS CONFORMING TO ASTM, A496.
D. STUDS AND ANCHORS SHALL BE WELDED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. MANUAL ARC (STICK) WELDING OF HEADED STUDS AND/OR DEFORMED ANCHORS IS NOT ALLOWED: PARAGRAPHS 7.5.5 TO 7.5.5.6 INCLUSIVE, OF THE AWS D1.1, ARE DELETED
- EXCEPT AS SUBSEQUENTLY NOTED, HIGH STRENGTH BOLTS NEED NOT BE TIGHTENED BEYOND THE SNUG-TIGHT CONDITION, AS DEFINED IN SECTION 8(c) OF THE SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS'. FOR CONNECTIONS SUBJECT TO DIRECT TENSION, CONNECTIONS FOR BRACED FRAMES. AND OTHER CONNECTIONS SHOWN OR NOTED ON THE PLANS AS SC (SLIP CRITICAL) OR FULLY TENSIONED, BOLTS SHALL BE TIGHTEN BY ONE OF THE METHODS DESCRIBED IN SECTION 8(D) AND TO THE MINIMUM TENSION SPECIFIED IN SECTION 8(d), TABLE 4.
- MECHANICAL AND WELDED CONNECTIONS OF ANY KIND TO THE STRUCTURAL STEEL ARE NOT PERMITTED WITHIN 'PROTECTED ZONES' OF LATERAL RESISTANCE ELEMENTS AS SPEC IFIED IN THE AISC SEISMIC PROVISIONS (ANSI/AISC 341).

TEST AND INSPECTION/QUALITY ASSURANCE AGREEMENT

SPECIAL INSPECTION SHALL BE PER IBC SECTION 1705 AND SHALL BE PERFORMED FOR THE FOLLOWING ITEMS:

- GRADING AND EXCAVATION: SHALL BE INSPECTED AS REQUIRED BY THE GEOTECHNICAL REPORT. STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY GRADING OR EXCAVATION INSPECTIONS.
- CONCRETE: CONCRETE MIX DESIGN SHALL BE SUBMITTED TO THE CNLV FOR APPROVED PRIOR TO PLACEMENT OF ANY AND ALL STRUCTURAL ITEMS IDENTIFIED BY THE STRUCTURAL ENGINEER. TEST SPECIMENS SHALL BE TAKEN DURING PLACEMENT OF FOUNDATION AND SLAB-ON-GRADE. COPIES OF TEST REPORTS SHALL BE FURNISHED TO THE ENGINEER OF RECORD UPON REQUEST AND INCLUDE IN THE FINAL QUALITY ASSURANCE REPORT.
- REINFORCING STEEL: (PERIODIC) SHALL BE INSPECTED DURING PLACEMENT OF THE REINFORCING STEEL FOR CONCRETE FOUNDATIONS AND SLAB-ON-GRADE IDENTIFIED BY STRUCTURAL ENGINEER. THE REINFORCING STEEL SHALL BE INSPECTED PRIOR TO PLACING CONCRETE.
- STRUCTURAL IFC (BASEMENT ONLY): (PERIODIC) PRE-FABRICATED MORTAR AND GROUT MIX DESIGN SHALL BE SUBMITTED TO THE CDDS FOR APPROVED PRIOR TO PLACEMENT OF ANY A D ALL STRUCTURAL ITEMS IDENTIFIED BY THE STRUCTURAL ENGINEER. SHALL BE INSPECTED DURING THE PREPARATION OF ALL GROUT AND MORTAR AND TEST SPECIMENS. DURING THE PLACEMENT OF MASONRY UNITS AND MORTAR JOINTS; DURING THE PLACEMENT OF REINFORCING STEEL AND EMBEDDED ITEMS; AND DURING THE PLACEMENT OF GROUT.
- STRUCTURAL WOOD: INSPECTION FOR SHEAR WALLS AND WOOD DIAPHRAGMS WHERE THE FASTER SPACING IS 4" O.C. OR LESS.
- EXPANSION AND ADHESIVE ANCHORS. (CONTINUOUS) SHALL BE INSPECTED DURING THE PLACEMENT OF EXPANSION ANCHORS TO ENSURE PROPER TIGHTENING AND DURING THE INSTALLATION OF ADHESIVE ANCHORS IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS AND/OR INSTRUCTIONS.

THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR COMPLIANCE WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE ENGINEER OR ARCHITECT OR RECORD. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR. THE CONTRACTOR SHALL THEN CORRECT THE WORK AS REQUIRED. IF THE WORK PROCEEDS UNCORRECTED THE SPECIAL INSPECTOR SHALL BRING THE DISCREPANCIES TO THE IMMEDIATE ATTENTION OF THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE AND THE BUILDING OFFICIAL.

THE RESPONSIBLE PARTY PERFORMING THE INSPECTIONS SHALL SUBMIT THE APPROPRIATE FINAL INSPECTION FORMS TO THE BUILDING OFFICIAL UPON COMPLETION OF WORK. THE STRUCTURAL ENGINEER OF RECORD SHALL NOT BE RESPONSIBLE FOR INSPECTIONS PERFORMED BY OTHERS PART-TIES NOT DIRECTLY EMPLOYED BY THE STRUCTURAL ENGINEER OF RECORD.

FOUNDATION AND RELATED NOTES

- SPECIFICATIONS OR WITH EACH OTHER. THE STRICTEST PROVISIONS SHALL GOVERN.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND ELEVATIONS SHOWN ON THE PLANS AND FOR COORDINATING ALL DIMENSIONS AND ELEVATIONS SHOWN ON THE STRUCTURAL DRAWINGS WITH THOSE SHOWN ON THE ARCHITECTURAL DRAWINGS IF DISCREPANCIES IN THE DIMENSIONS OCCUR. IT SHALL BE THE ARCHITECT AND/OR ENGINEERS BEFORE PROCEEDING WITH WORK.
- ALL CONTRACTORS AND SUBCONTRACTORS ARE TO EXAMINE ALL DRAWINGS AND NOTIFY THE PROJECT ENGINEER OF ANY DISCREPANCY BEFORE PROCEEDING WITH THE WORK.
- ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE REFERENCED BUILDING CODE, LOCAL ORDINANCES, AND REFERENCE STANDARDS OF ASTM, ACI, AND AISC.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES AND TO PROTECT THEM FROM DAMAGE.
- IN CASE OF ANY DISCREPANCY BETWEEN THIS PLAN AND ANCHOR BOLT PLAN THE ANCHOR BOLT PLAN SHALL SUPERSEDE, AND THE FOUNDATION ENGINEER SHALL BE NOTIFIED.
- SEE ANCHOR BOLT DRAWING FOR SIZE AND LOCATION OF ANCHOR BOLTS.
- THESE DRAWINGS HAVE PREPARED BASED ON WOOD FRAMED BUILDING ANCHOR BOLT AND FRAME REACTION PLANS. DUE TO ANY FURTHER REVISIONS TO A.B. PLAN, THIS FOUNDATION PLAN NEEDS TO BE REVISED OTHERWISE IT WILL BE VOID.
- FOR LOCATION AND SIZE OF CONCRETE NOTCH FOR PANELS. SEE WOOD FRAMED BUILDING ANCHOR BOLT PLAN.
- ALL CONCRETE FOOTINGS AND GRADE BEAMS SHALL BEAR UPON / OR PENETRATE INTO UNDISTURBED SOIL OR COMPACTED SOIL. SOIL SHALL HAVE MIN. IN-PLACE DENSITY OF 95% OF MAX DENSITY @ MAX. MOISTURE CONTENT FOR THE SOIL AT THE PROJECT SITE.
- COMPACT SOIL ALL AROUND ISOLATED FOOTINGS AFTER PLACEMENT.
- FOUNDATION ENGINEER'S LIABILITY IS LIMITED TO FOUNDATION DESIGN FEE.
- CONCRETE SLAB ON GRADE NOT DESIGNED FOR ANY POINT LOAD.
- CONCRETE SHALL HAVE MINIMUM 28 DAYS COMPRESSIVE STRENGTH OF 2500 PSI TYPE V CONCRETE FOR SULFATE RESISTANCE. (5 SACK MINIMUM).
- IF EXPANSIVE SOIL WITH EXPANSION INDEX OF GREATER THAN 20 IS LOCATED UNDER FOOTINGS, GRADE BEAMS, AND/OR SLAB, THE CONTRACTOR SHALL RETAIN A GEOTECHNICAL ENGINEER TO MAKE THE PROPER RECOMMENDATION AND THE FOUNDATION DESIGN SHALL BE REVISED BASED ON THE GEOTECHNICAL ENGINEER'S REPORT.
- FILL MATERIAL SHALL BE OF GRANULAR QUALITY WITH 3 < PI < 15. FILL MATERIAL SHALL BE PLACED IN 6 INCH LIFTS AND COMPACTED TO MINIMUM DENSITY OF 95% STANDARD PROCTOR(ASTM D 698 (AT A MOISTURE CONTENT OF 3-5% ABOVE OPTIMUM.
- REINFORCING STEEL SHALL BE NEW DOMESTIC, DEFORMED BILLET STEEL, ASTM A 615, GRADE 40 (EXCEPT #3 CAN BE GRADE 40), AND SHALL BE DETAILED, FABRICATED, AND PLACED IN ACCORDANCE WITH THE LATEST REVISIONS OF THE ACI MANUAL, "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES". REINFORCEMENT IN ALL CONCRETE WALLS AND FOOTINGS SHALL BE CONTINUOUS AROUND CORNERS. WHERE FOOTINGS AND/OR SLAB STEP, REINFORCEMENT SHALL BE CONTINUOUS IN THE STEP. WELDED WIRE FABRIC SHEETS SHALL BE PER ASTM ACI 318.
- BOTTOM BEAM STEEL SHALL HAVE 3" CLEARANCE, ALL OTHER BEAM AND SLAB STEEL SHALL EXTEND TO 2" OF EXTERIOR FORMS AND OTHER CONDITIONS SHALL BE AS PER LATEST EDITION OF ACI 318.
- ALLOWABLE SOIL BEARING CAPACITY IS ASSUMED TO BE A MINIMUM OF 3000 PSF. BUT IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE SOIL CONDITIONS BEFORE CONSTRUCTION. AND IF UNUSUAL CONDITIONS ARE ENCOUNTERED, NOTIFY THE ENGINEER BEFORE CONSTRUCTION.
- FINAL GRADE SHALL BE SUCH THAT ADEQUATE DRAINAGE AWAY FROM ALL SIDES OF THE FOUNDATION IS PROVIDED, AND NOT EROSION WILL OCCUR.

GIGACRETE SPECIFICATIONS

GIGACRETE FACTORY MADE HIGHLY INSULATED HOUSING MATERIALS DESIGNED TO CREATE PRE-ENGINEERED STEEL FRAMES STRUCTURES UTILIZING 180/ICC-ES CODE APPROVED PRODUCTS. PANELS ARE USED FOR ALL WALLS AND ROOFS AND ERECT RAPIDLY REDUCING LABOR AND MEASURING.

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. MATERIALS AND INSTALLATION METHODS TO RAPIDLY CONSTRUCT STEEL STUD INSULATED WALLS AND ROOFS. INTERIOR AND EXTERIOR WALL COATINGS TO COVER INSULATED PANELS OF EPS FOAM.

1.02 DESIGN REQUIREMENTS

- A. INSULATED EPS PANEL SYSTEM COMPONENTS TO ACCEPT STEEL STUD INSERTS.

1. WALL AND ROOF PANELS SYSTEM COMPONENTS TO ACCEPT STEEL STUD INSERTS THICKNESS. THESE EPS FOAM BASED COMPONENTS INCLUDE FLAT PANELS, CURVED PANELS, CORNERS AND INTERSECTING "T" SHAPED PIECES ALL OF WHICH HAVE PRE-CUT PLACEMENT FOR STRUCTURAL STEEL STUD INSERTIONS.
2. PRE-CUT FACTORY MADE INSULATION PANELS LOCATE WHERE THE STRUCTURAL STEEL STUDS AND PATENTED CONNECTOR SHALL BE INSTALLED.
3. STEEL STUDS, CONNECTORS AND TOP AND BOTTOM TRACKS ARE PRE-CUT AND SUPPLIED WITH EACH OF THE INSULATION PANELS.
4. HARDWARE SUCH AS SELF-DRILLING SELF TAPPING TAPCON SCREWS ARE USED TO ATTACH TO STEEL STUDS TO TRACK AS PER TYPICAL IBC STEEL FRAMING CODES.
5. ROOF TO FOUNDATION ANCHORS ARE USED TO TIE DOWN THE ROOF THROUGH MECHANICAL STEEL CONNECTIONS TO THE FOUNDATION VIA ALL-THREAD COUPLING NUTS AND EXPANSION ANCHORS SET INTO THE CONCRETE SLAB OR FOOTINGS.

1.03 PERFORMANCE REQUIREMENTS

- A. SHALL BE ACCEPTABLE FOR USE UNDER THE BUILDING CODE ENFORCING BODY IN THE JURISDICTION OF THE PROJECT.

1.04 SUBMITTALS

- A. MANUFACTURER'S TECHNICAL DATA SHEET, SPECIFICATIONS AND BEST PRACTICE GUIDE.
- B. SAMPLES FOR ARCHITECT'S APPROVAL (WHEN SPECIFIED).

1.05 QUALITY ASSURANCE

- A. MANUFACTURER

1. ALL MATERIALS MANUFACTURED, SOLID AND DISTRIBUTED BY GIGACRETE, INC. LAS VEGAS, NEVADA.

- B. CONTRACTOR REQUIREMENT

1. CONTRACTOR MUST BE LICENSED, INSURED AND ENGAGED IN APPLICATION PRACTICES OF SIMILAR MATERIALS TO THOSE HEREIN THIS SPECIFICATION.
2. EMPLOY SKILLED MECHANICS WHO ARE KNOWLEDGEABLE AND EXPERIENCED IN SIMILAR MATERIALS TO THOSE HEREIN THIS SPECIFICATION.
3. CONTRACTOR MUST PROVIDE PROPER EQUIPMENT, MANPOWER AND SUPERVISION ON THE JOBSITE TO INSTALL THE PRODUCT IN ACCORDANCE WITH GIGACRETE BEST PRACTICE GUIDE PUBLICATION.

1.06 DELIVERY STORAGE AND HANDLING

- A. DELIVERY

1. MATERIAL SHALL BE DELIVERED TO THE JOBSITE IN THEIR ORIGINAL PALLETIZED UNOPENED COATINGS PACKAGES.
2. MATERIAL SHALL BE INSPECTED FOR DAMAGES DAMAGED PANELS, STUDS AND COATINGS PACKAGES SHOULD BE REMOVED FROM THE REMAINING USABLE STOCK AND DAMAGE CLAIMS MADE TO THE SHIPPING COMPANY

- B. STORAGE

1. PRODUCT SHALL BE STORED INDOORS IN A DRY LOCATION FREE OF MOISTURE, HIGH HUMIDITY, DIRECT SUNLIGHT, OFF THE FLOOR AND UNDER COVER. EPS FOAM WILL SLOWLY DEGRADE WHEN EXPOSED TO CONSTANT UV RAYS FROM SUNLIGHT.
2. STORAGE LOCATION SHALL BE PROTECTED FROM EXCESSIVE HEAT OR FREEZING CONDITIONS WITHIN THE TEMPERATURE RANGE OF 35 DEGREE (F) - 90 DEGREE (F)

- C. HANDLING

1. DO NOT TO THROW, DROP OR MISHANDLE UNOPENED PACKAGES USING CAUTION TO PRESERVE CONDITION OF SEALED PACKAGES. EPS FOAM PANELS ARE DELICATE AT THE EDGES AND SHOULD BE HANDLED WITH CARE AND CAUTION TO NOT BREAK OFF EDGES.

1.07 PROJECT CONDITIONS

- A. WIND AND AMBIENT AND SURFACE TEMPERATURE.

1. HEAT AND HUMIDITY ARE NOT FACTORS WITH THE EPS FOAM HOWEVER. THE PANELS ARE LIGHTWEIGHT SO EXTREME CAUTION DURING HIGH WINDS SHOULD BE TAKEN
2. PLASTERMAX INTERIOR FINISH AND STUCCOMAX EXTERIOR SHALL BE APPLIED IN AMBIENT AIR TEMPERATURES ABOVE 40 DEGREE (F) AND RISING AND REMAIN ABOVE ABOVE 40 DEGREES (F) FOR 24 HOUR PERIOD.
3. DO NOT APPLY STUCCOMAX DURING INCLEMENT WEATHER OR WHEN INCLEMENT WEATHER IS INEVITABLE UNLESS APPROPRIATE WEATHER PROTECTION IS USED.
4. DO NOT APPLY PLASTERMAX INTERIOR FINISH AND STUCCOMAX TO SUBSTRATES THAT ARE BELOW 32 DEGREE (F) OR THAT ARE WET, FROZEN OR CONTAIN FROST.
5. AVOID INSTALLING STUCCOMAX IN DIRECT SUNLIGHT OR HIGH WINDS WHENEVER POSSIBLE AS THIS MAY CAUSE RAPID HYDRATION AND CAUSE PRODUCT FAILURE.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. GIGACRETE INC. LAS VEGAS, NEVADA

2.02 MATERIALS

- A. INSULATED EPS PANEL SYSTEM COMPONENTS TO ACCEPT STEEL STUD INSERTS.
- B. ICC-ES-ESR-1556 STAR-R FOAM EPS PANELS RANGING IN DENSITY FROM 1LB TO 2LBS DENSITY PER CUBIC FOOT.
- C. ICC-ESR-3016 CAMCO STEEL FRAMING STUDS AND TRACK
- D. PLASTERMAX INTERIOR PLASTER WITH FIRE RATINGS, IBC 803.2 1 IBC 803.3 AND NFPA 286, UBC 26-3, ASTM-E84.
- E. REINFORCING EIFS MESH (DETERMINED BY ARCHITECT FOR IMPACT RESISTANCE REQUIREMENT)

1. 4.2 OUNCE PER SQ. YD. - STANDARD MESH (LOW IMPACT RESISTANCE)
2. 11 OUNCE PER SQ. YD. - HIGH IMPACT RESISTANCE (RECOMMENDED)

2.03 JOB INGREDIENTS

- A. POWER SUPPLY FOR JOBSITE MIXING OF COATINGS AND ELECTRICALLY OPERATED TOOLS SUCH AS SCREW GUN CHARGERS IS REQUIRED

2.04 JOBSITE MIXING

- A. MIX IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS CONTAINED WI THIN STUCCOMAX BEST PRACTICE GUIDE.

PART 3 - EXECUTION

- A. INSTALLER MUST QUALIFY UNDER THE QUALITY ASSURANCE REQUIREMENT IN THIS SPECIFICATION (SECTION 1 06).

3.01 EXAMINATION

- A. INSPECT EPS SURFACE FOR:

1. DIRT, UV DAMAGE CAUSING A POWDERY SURFACE. GREASE, PAINT LAITANCE, CONCRETE SPATTER OR ANY OTHER FOREIGN MATERIAL THAT MAY ACT AS A BOND BREAKER.
2. MOISTURE ON THE SURFACE. ENSURE THAT THE EPS IS DRY BEFORE THE APPLICATION
3. WALL AREAS MUST BE PLUMB, SQUARE AND STRAIGHT WITHIN 1/8" WITHIN A 4 FOOT RADIUS, IDENTIFY AND MARK PROBLEMATIC WALL AREAS

- B. REPORT ANY DEVIATIONS FROM THE SPECIFICATION REQUIREMENTS OR ANY OTHER CONDITIONS THAT MAY ADVERSELY AFFECT THE COATINGS INSTALLATION TO THE GENERAL CONTRACTOR

3.02 SURFACE PREPARATION

- A. RASP THE SUBSTRATE TO REMOVE POTENTIAL BOND BREAKERS LISTED IN SECTION 3.01A1 AND TO ENSURE GOOD ADHESION.

- B. REPAIR DAMAGE, DENTS AND VOIDS IN THE EPS SUBSTRATE WITH AN APPROPRIATE EXPANDED INSULATION PRIOR TO APPLYING PLASTERMAX OR STUCCOMAX. DO NOT ATTEMPT TO MAKE REPAIRS WITH STUCCOMAX OR ANYTHING OTHER THAN EXPANDED INSULATION.

3.03 INSTALLATION

- A. MAKE SURE THE CONCRETE SLAB OR FOUNDATION IS FLAT CLEAN AND MARK THE SLAB FOR TRACK LOCATIONS AS CALLED OUT ON INSTALLATION DRAWINGS. LOCATE TRACK COMPONENTS. SOME MAY HAVE TO BE CUT TO SIZE AND NOTCHED FOR INTERSECTING TRACKS.

- B. INSTALL VAPOR BARRIER FOAM ROLL UNDERNEATH BOTTOM TRACKS AND SHOOT INTO THE SLAB USING SHOT PINS, ALSO CALLED RED HEADS. ALTERNATELY, DRILL AND BOLT USING EXPANSION ANCHORS.

- C. LOCATE AND PLACE NEXT TO FINAL LOCATIONS, ALL EPS PANELS, CORNER AND T COMPONENTS, THESE ARE MARKED ABCD ETC. ON THE INSTALLATION DRAWINGS.

- D. START BY ASSEMBLING A SELF SUPPORTING CORNER, BEGIN INSTALLING PANEL TO PANEL CONNECTOR AND DROP INTO THE SLOTS CUT INTO THE FOAM EACH STUD OR CONNECTOR DO NOT LEAVE ANY STUDS OUT. CORNERS SHOULD HAVE AT LEAST TWO PANELS UP IN THE SHAPE ON A LETTER L TO SUPPORT PANELS HEADED IN THE OPPOSITE LEG CONTINUE WITH ALL PANELS REQUIRED TO COMPLETE THE FIRST LEVEL AND FINISH BY PLACING THE TOP AND BOTTOM. THIS WILL ALLOW FOR MINOR ADJUSTMENTS TO BE MADE CAUSED BY PANEL CREEP.

- E. FASTEN ANY FLOOR OR ROOF TRUSS SUPPORT HANGERS FROM TOP OF WALLS IF REQUIRED AND HANG TRUSSES GALVANIZED TRUSS BRACKETS ARE SUPPLIED IN THE ASSEMBLY COMPONENTS ALONG WITH BOLTS OR TAPCON SCREWS.

- F. AFTER ERECTING ROOF TRUSSES AND OR COMPRESSION RINGS FOR HIP ROOFS. ROOF PANELS ARE PLACED STARTING AT THE PEAK OR RIDGE AND WORKED DOWNWARDS. ROOF PANELS HAVE STEEL CONNECTORS AND PURLIN STUDS AT THE INSIDE FACE OF THE PANELS CREATING A STEEL TO STEEL CONNECTION WITH THE TRUSSES, ANGLE BRACKETS ARE SUPPLIED AND ATTACH THE STUD TO THE BOTH SIDES OF THE TOP CHORD OF THE TRUSS USING TAPCON SCREWS.

- G. INTERIOR ROOF SURFACES WHERE STEEL STUDS ARE EXPOSED MUST NOW BE COVERED WITH ADDITIONAL EPS FOAM SHEETS. THESE SHEETS ARE CUT TO FIT AND SPRAY GLUED INTO PLACE AND ADDITIONAL SCREWS AND PLASTIC WASHER MECHANICALLY CONNECT THROUGH THE FOAM TO THE STUDS AND CONNECTORS CINCH THE SCREWS AND WASHERS INTO THE FOAM TO ALLOW FOR COATINGS TO FORM A FLAT AND EVEN SURFACE FINISH.

- H. ROOF PANELS ARE SEALED AT ALL EDGES WITH EXPANDING POLURETHANE FOAM SPRAYED INTO GAPS OR VOIDS AND ALLOWED TO SET BEFORE TRIMMING FLAT. AT THIS TIME IT IS POSSIBLE TO FILL ANY DAMAGED AREAS AND TRIM FLAT PRIOR TO APPLYING ANY COATINGS.

- I. AFFIX ALL MOLDINGS AROUND WINDOWS AND DOOR AFTER THEY ARE INSTALLED WITH APPROPRIATE FLASHING AS PER CODE AND MANUFACTURERS RECOMMENDATIONS.

- J. RASP ANY AREA NOT FLAT AND REMOVE ALL DUST AND LOOSE PARTICLES PRIOR TO APPLYING COATINGS.

- K. APPLY A THIN LAYER OF PLASTERMAX OR ST UCCOMAX BY HAND OR PERISTALTIC TYPE SPRAYER AND EMBED SPECIFIED MESH OVERLAPPING ALL ABUTTING MESH EDGES BY .A MINIMUM OF 2.5". THIS CAN BE IN STRIPS COVERING THE ABUTTED JOINTS OR AS FULL SHEETS COVERING THE ENTIRE WALL SURFACE NOTE. GIGACRETE RECOMMENDS 11OZ MESH WHICH CAN BE OVERLAPPED AND HAS VERY HIGH STRENGTHS AND IMPACT RESISTANCE.

- L. AN ADDITIONAL THIN LAYER OF STUCCOMAX IS RE-APPLIED OVER THE MESH COAT (S) WHILE THE MATERIAL IN THE BASE LAYER IS STILL IN ITS PLASTIC STATE.

- M. REMOVE SURFACE IRREGULARITIES BY TROWEL BEFORE SURFACE SKIN FORMS, GENERALLY IN THE APPLICATION SHORT TERM. MISTING WATER ON THE WALL SURFACE MAY ASSIST TROWELING, FLATTENING THE WALL SURFACE WITH A DAMP SPONGE IS ALSO ACCEPTABLE.

- N. TEXTURING MAY BE DONE TO THE SECOND STUCCOMAX LAYER WHILE STILL WORKABLE. TEXTURE FINISHES SHALL BE SPECIFIED BY THE ARCHITECT AND THE RESPONSIBILITY OF THE INSTALLER.

3.04 PROTECTION

- A. PROVIDE PROTECTION OF INSTALLED STUCCOMAX FROM EXCESSIVE HEAT, COLD, WIND AND OTHER TRADE ACTIVITY. STUCCOMAX MAY BE ALLOWED TO GET WET ONCE IT HAS GAINED ENOUGH INITIAL STRENGTH.



PROJECT TITLE
PROPOSED GIGACRETE AFFORDABLE HOUSING (SHOW MODEL/OFFICE)

OWNER:
 MICRONESIA GREEN BUILDING TECHNOLOGY, LLC MARK MANIBUSAN

LOCATION:
 LOT 2021-1-1-10-1NEW, MARINE DRIVE, TAMUNING GUAM

SHEET CONTENTS:

ISSUE / REVISIONS	DATE

FILE NAME: GUAM ADU

DRAWN BY: SM/AD

DESIGNED BY:

CHECK BY:

DATE: October 23, 2021

DRAWING NUMBER

S-1.1

SHEET OF



THIS WORK WAS PREPARED BY ME OR UNDER MY RESPONSIBLE CONTROL.

PROPOSED GIGACRETE AFFORDABLE HOUSING (SHOW MODEL/OFFICE)

OWNER: MICRONESIA GREEN BUILDING TECHNOLOGY, LLC MARK MANIBUSAN

LOCATION: LOT 2021-1-1-10-1NEW, MARINE DRIVE, TAMUNING GUAM

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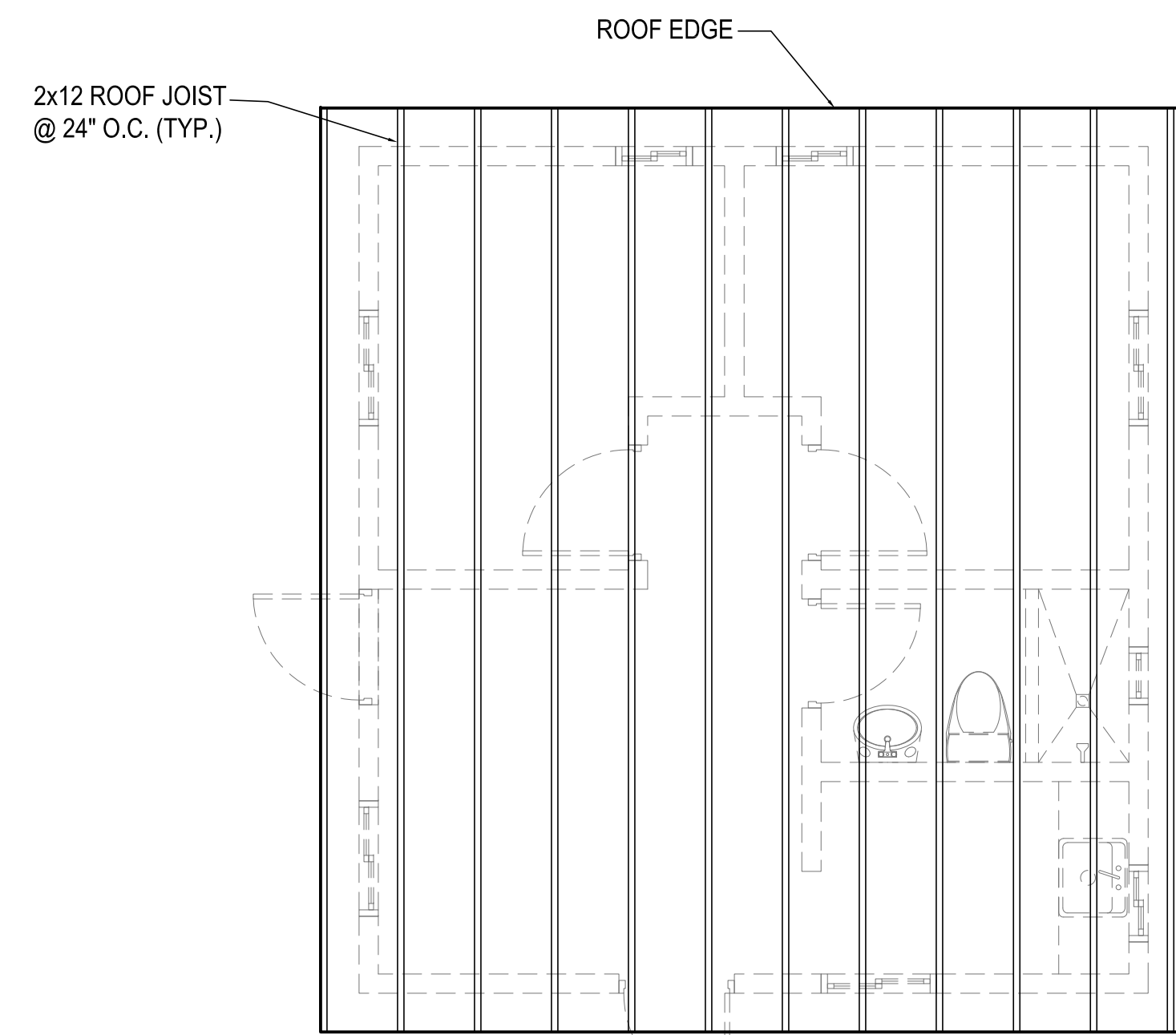
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DATE: October 23, 2021

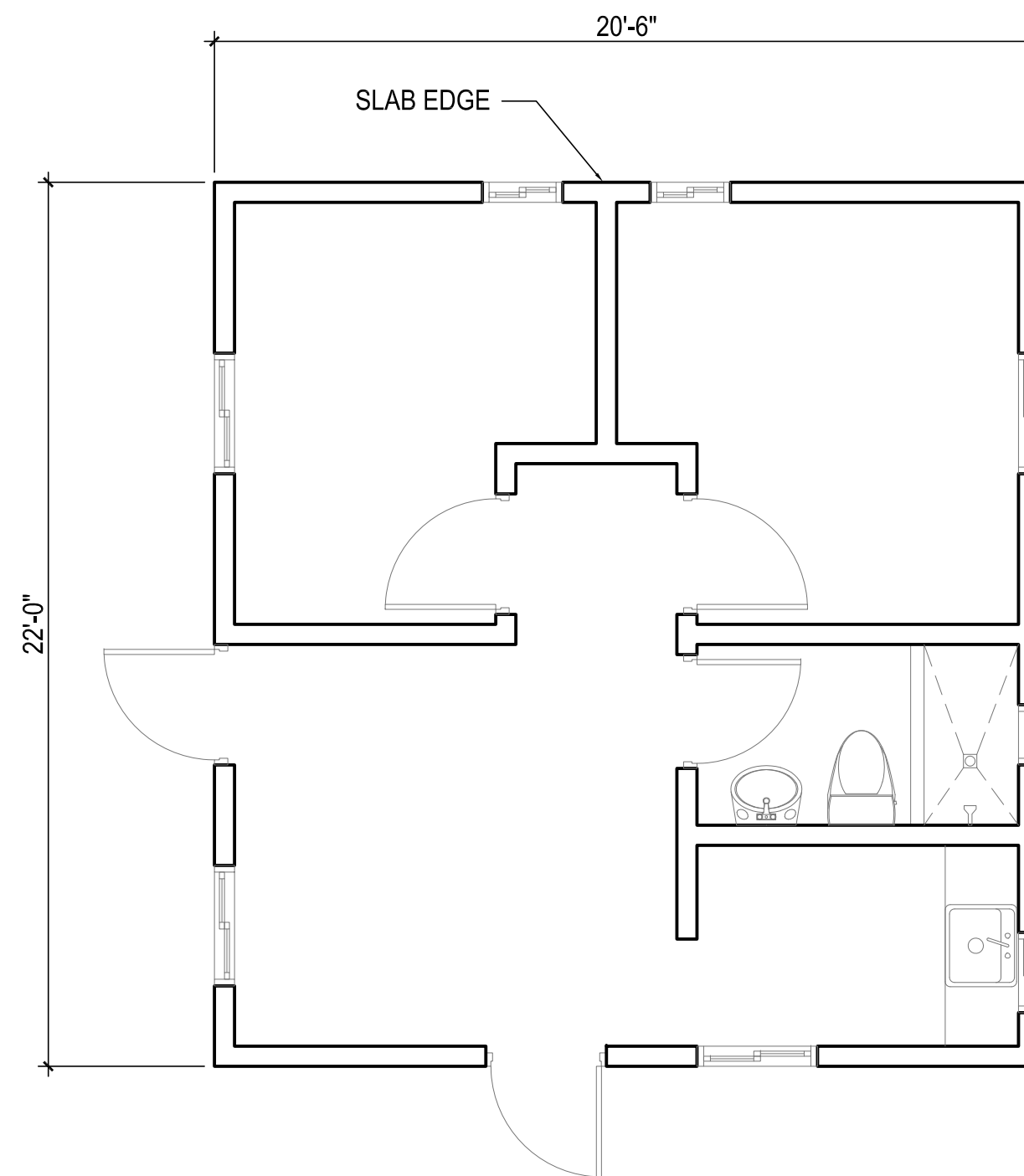
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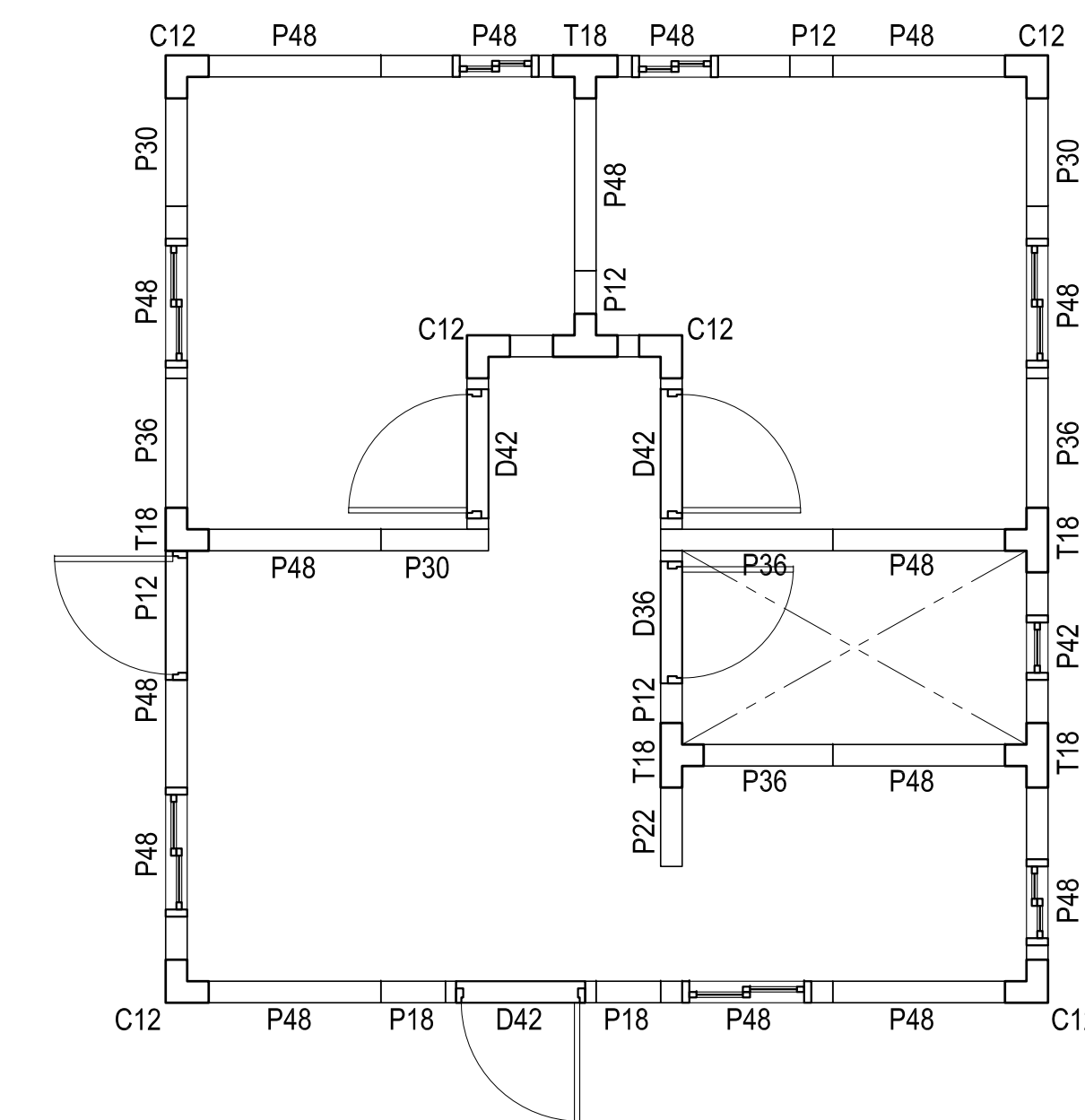
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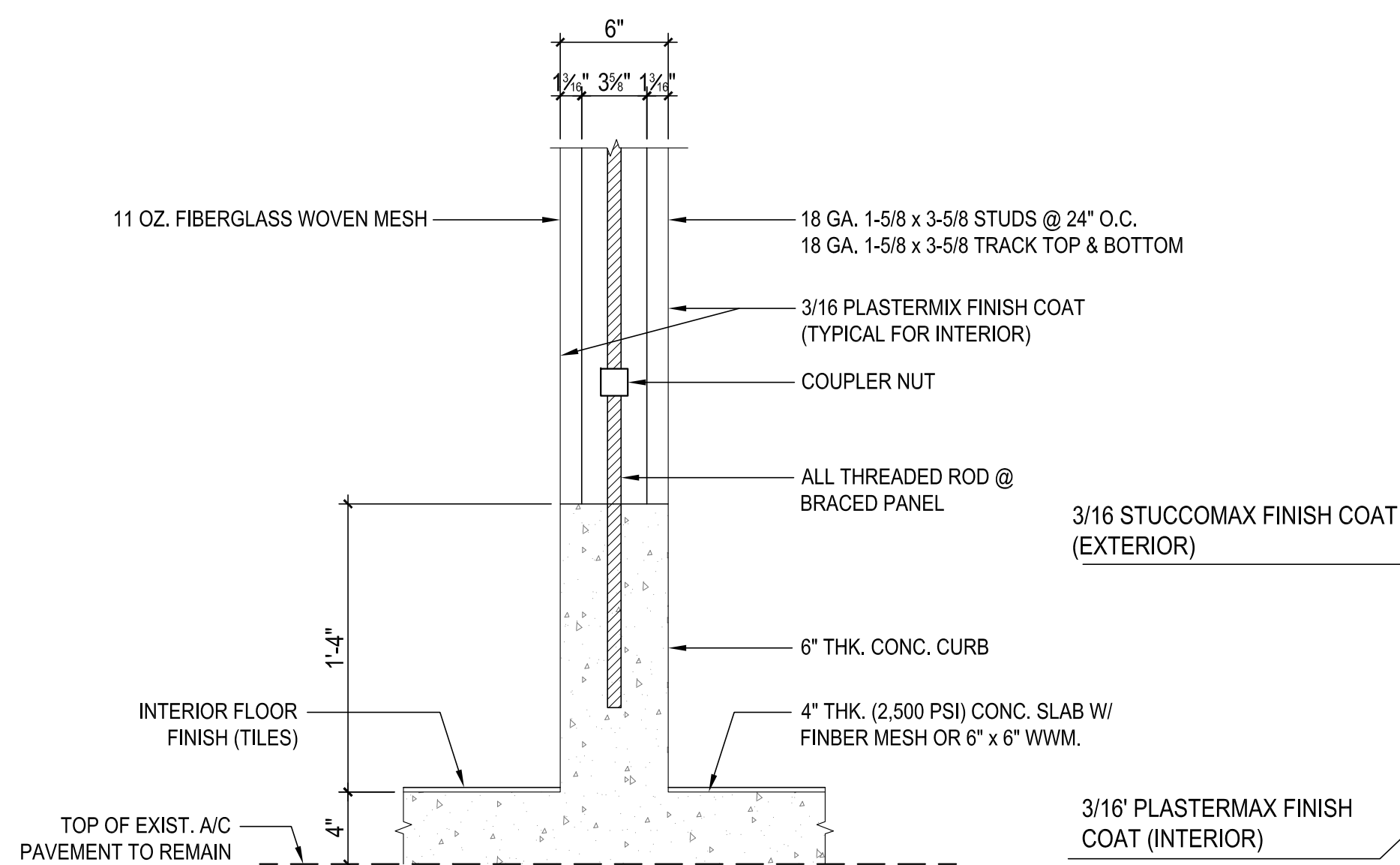
1 ROOF FRAMING PLAN
S-2 SCALE: 1/4" = 1'-0"



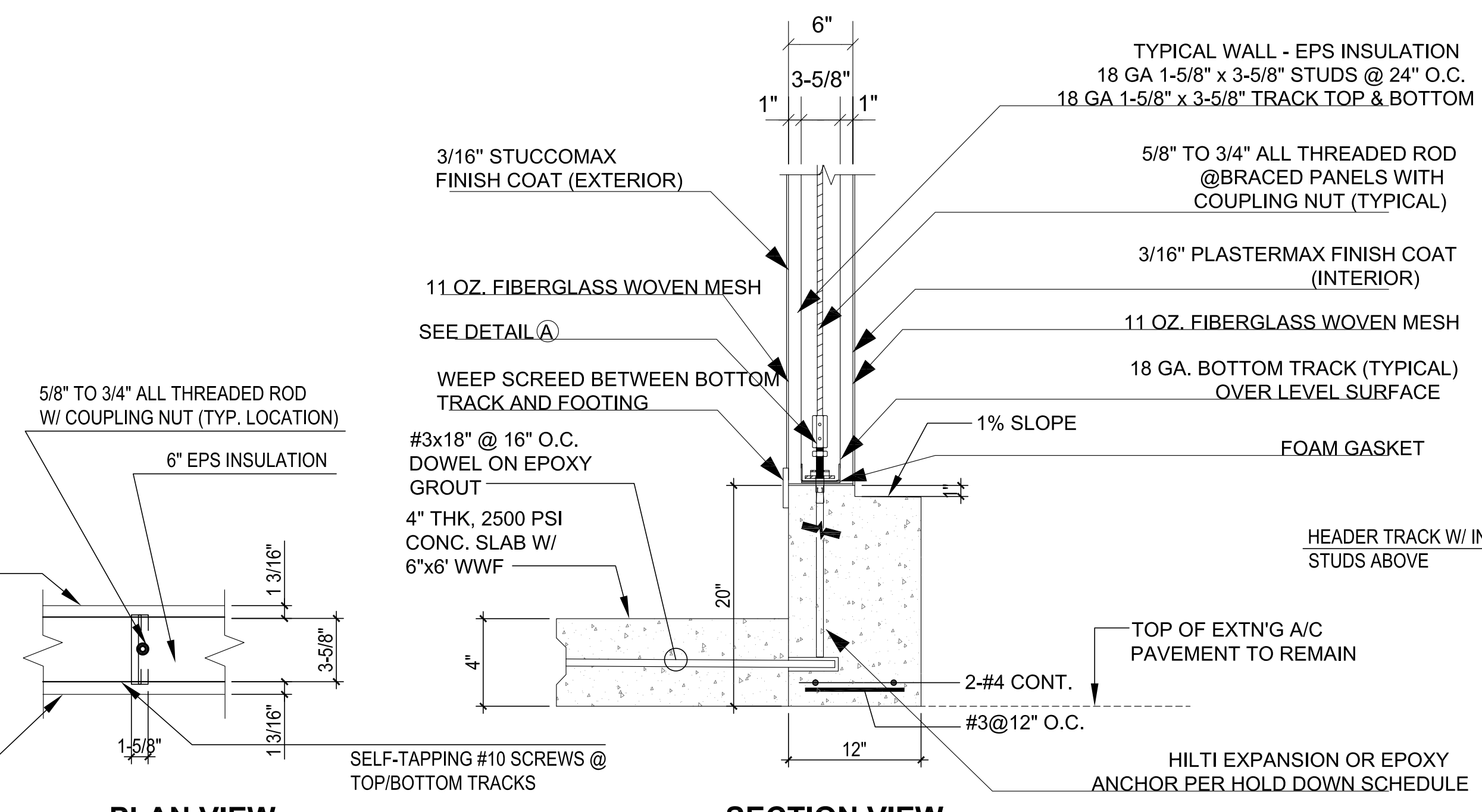
2 FOUNDATION PLAN
S-2 SCALE: 1/4" = 1'-0"



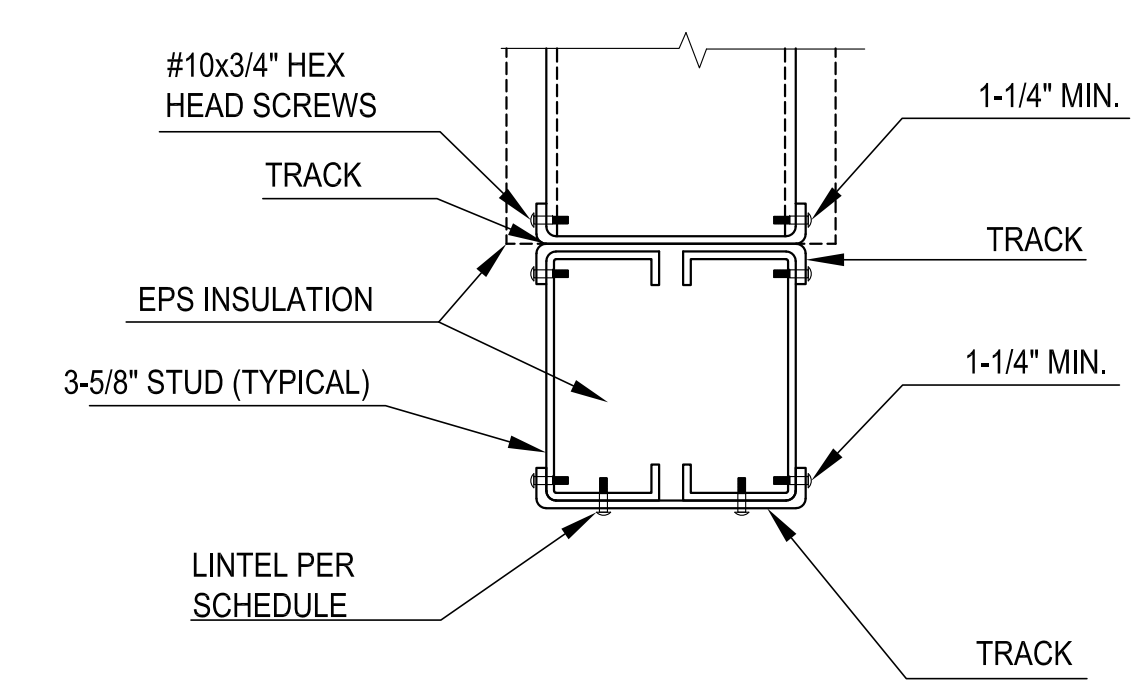
3 PANEL LAYOUT PLAN
S-2 SCALE: 1/4" = 1'-0"



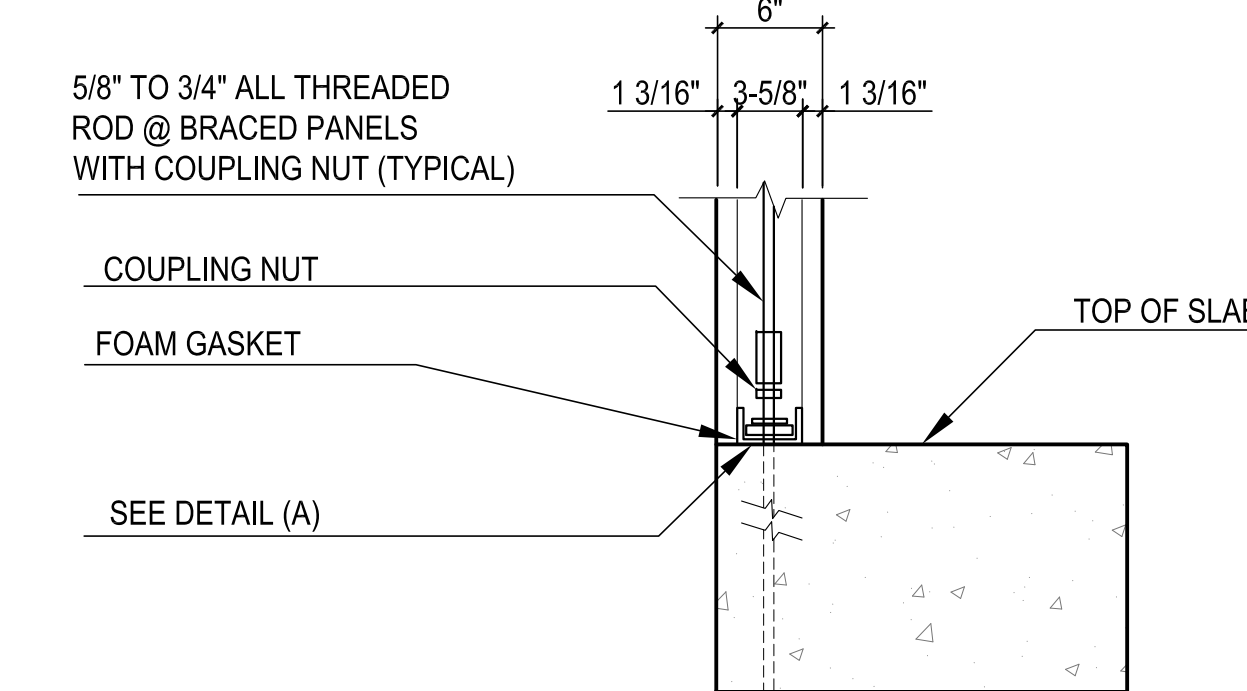
4 SHEAR WALL AND FOUNDATION SECTION DET.
A-4 SCALE: 1-1/2" = 1'-0"



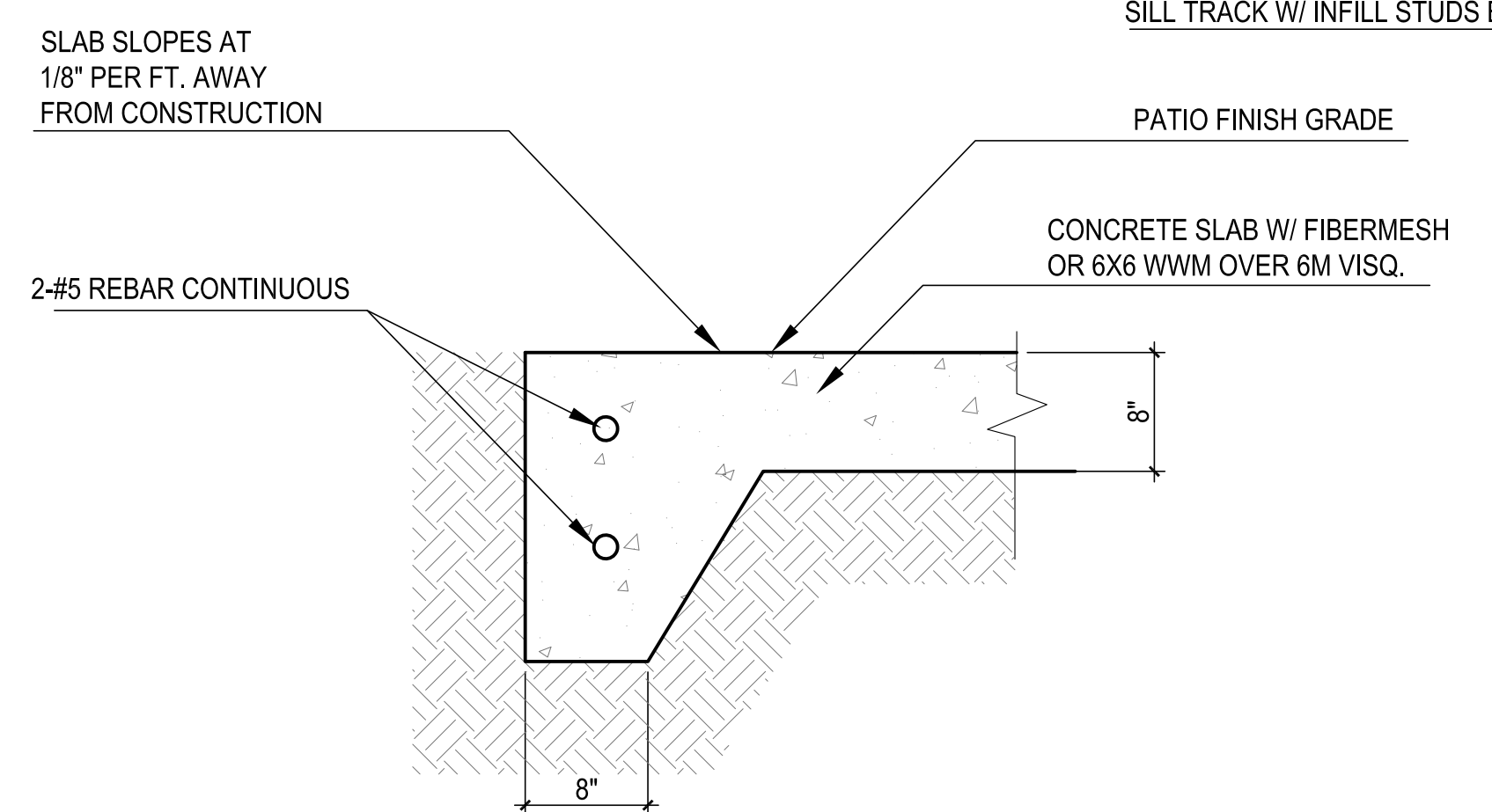
5 WALL CONNECTION TYPICAL.
S-2 SCALE: 1/4" = 1'-0"



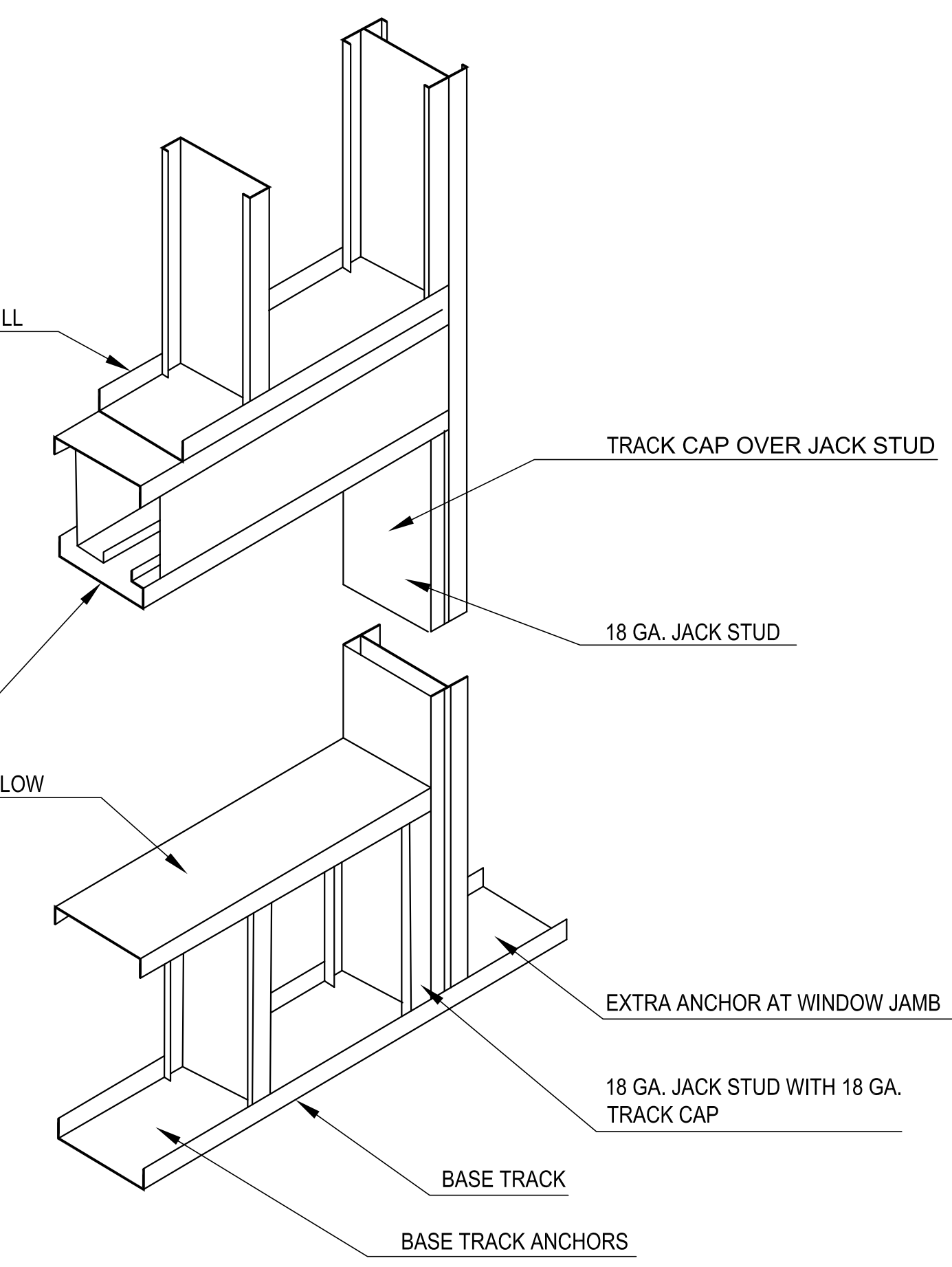
6 LINTEL AND BEAM CONNECTION TYP.
S-2 SCALE: 1/4" = 1'-0"



7 DETAIL HOLD DOWN BOLT W/ COUPLING
S-2 SCALE: 1/4" = 1'-0"



8 PATIO THICKENED EDGE DETAIL (TYP.)
S-2 SCALE: 1/4" = 1'-0"



9 LOAD BEARING WALL HEADER AND SILL AT JAMB
S-2 SCALE: 1/4" = 1'-0"



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PROPOSED GIGACRETE AFFORDABLE HOUSING (SHOW MODEL/OFFICE)

OWNER: MICRONESIA GREEN BUILDING TECHNOLOGY, LLC MARK MANIBUSAN

LOCATION: LOT 2021-1-1-10-1NEW, MARINE DRIVE, TAMUNING GUAM

PROJECT TITLE

SHEET CONTENTS:

DATE

ISSUE / REVISIONS

FILE NAME: GUAM ADU

DRAWN BY: SM/AD

DESIGNED BY:

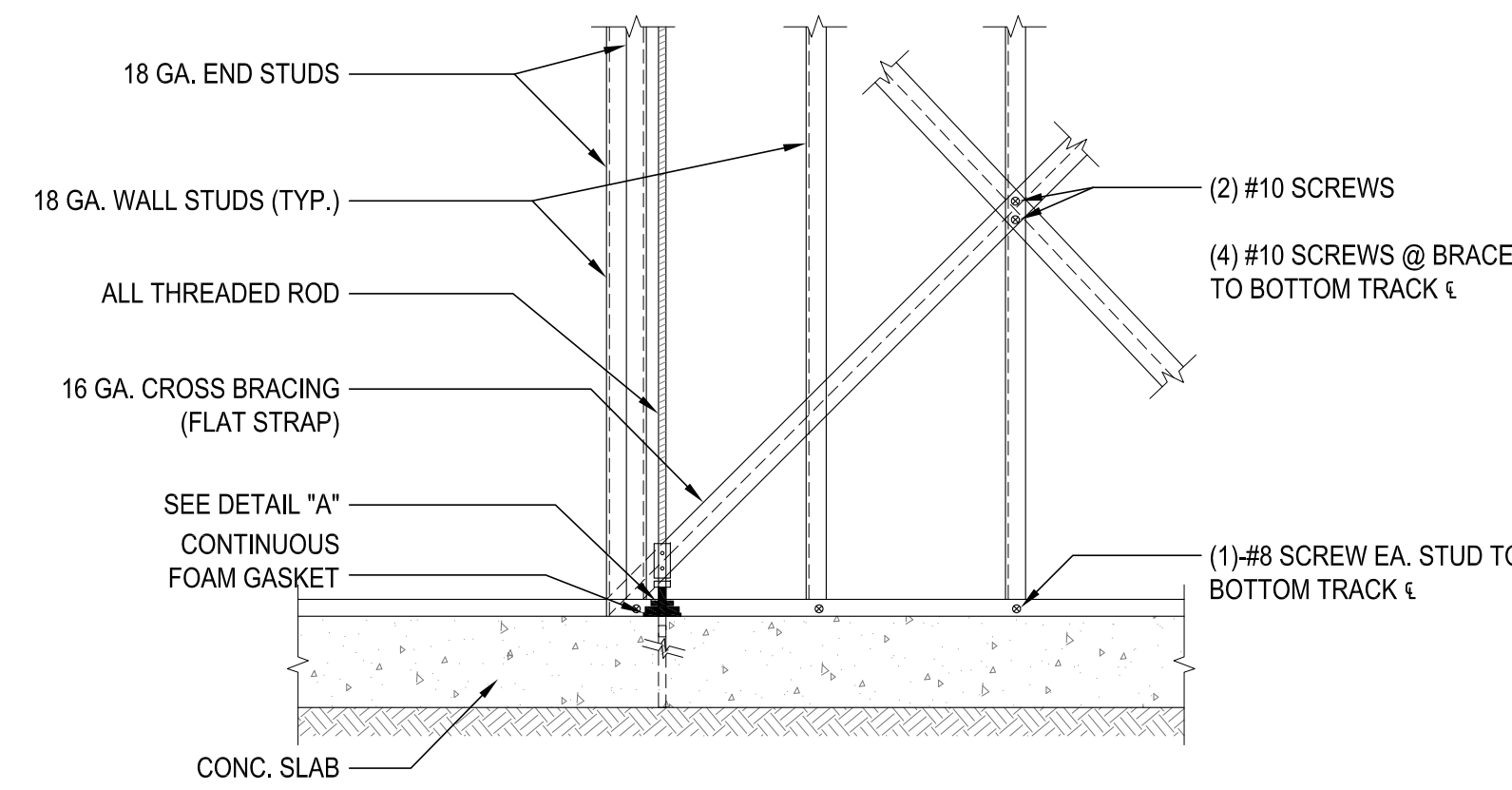
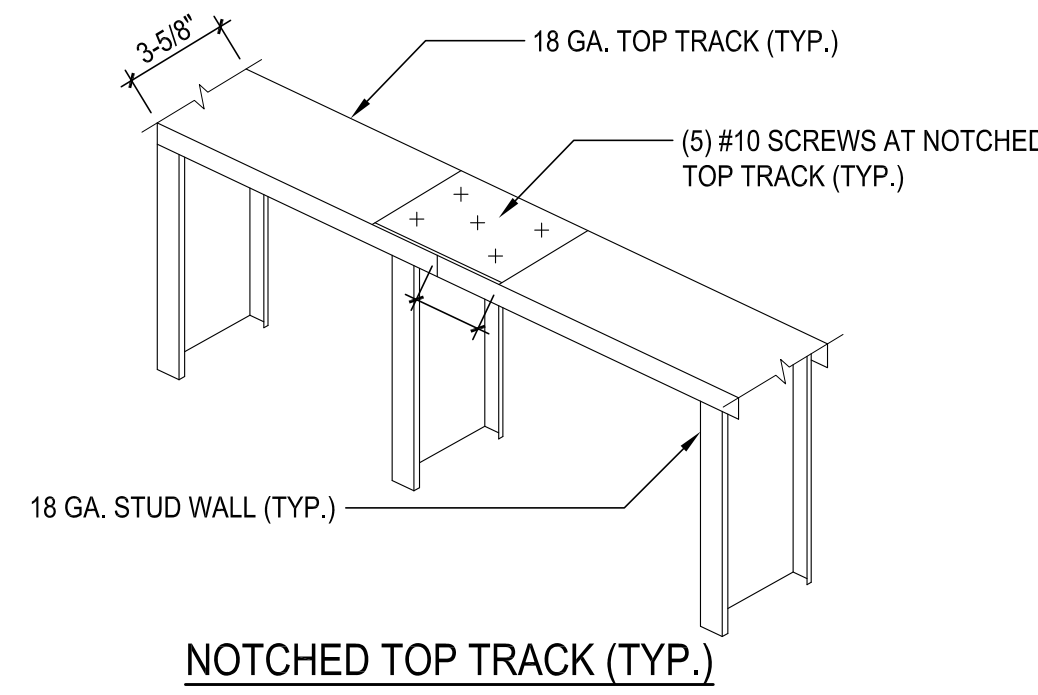
CHECK BY:

DATE: October 23, 2021

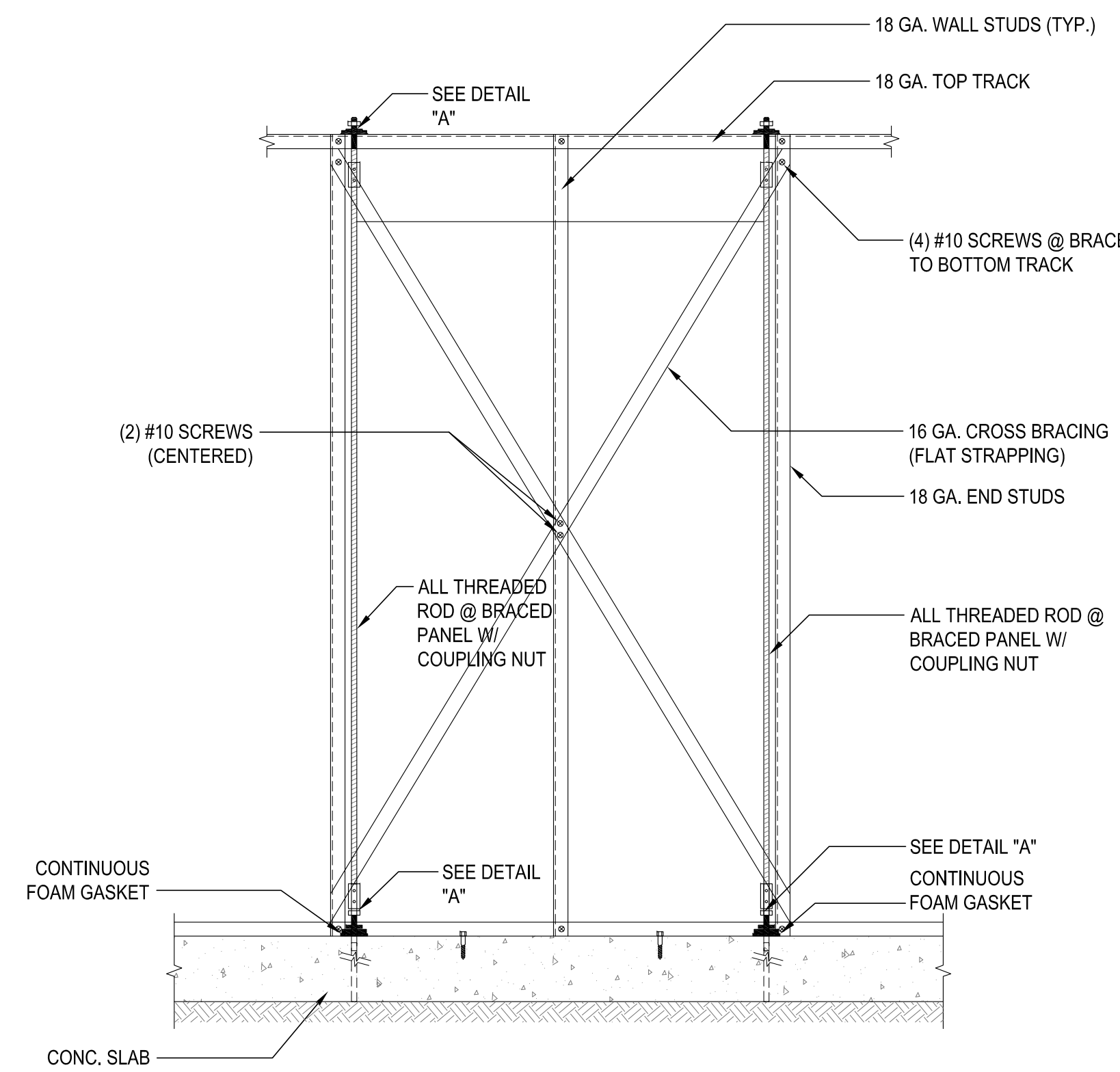
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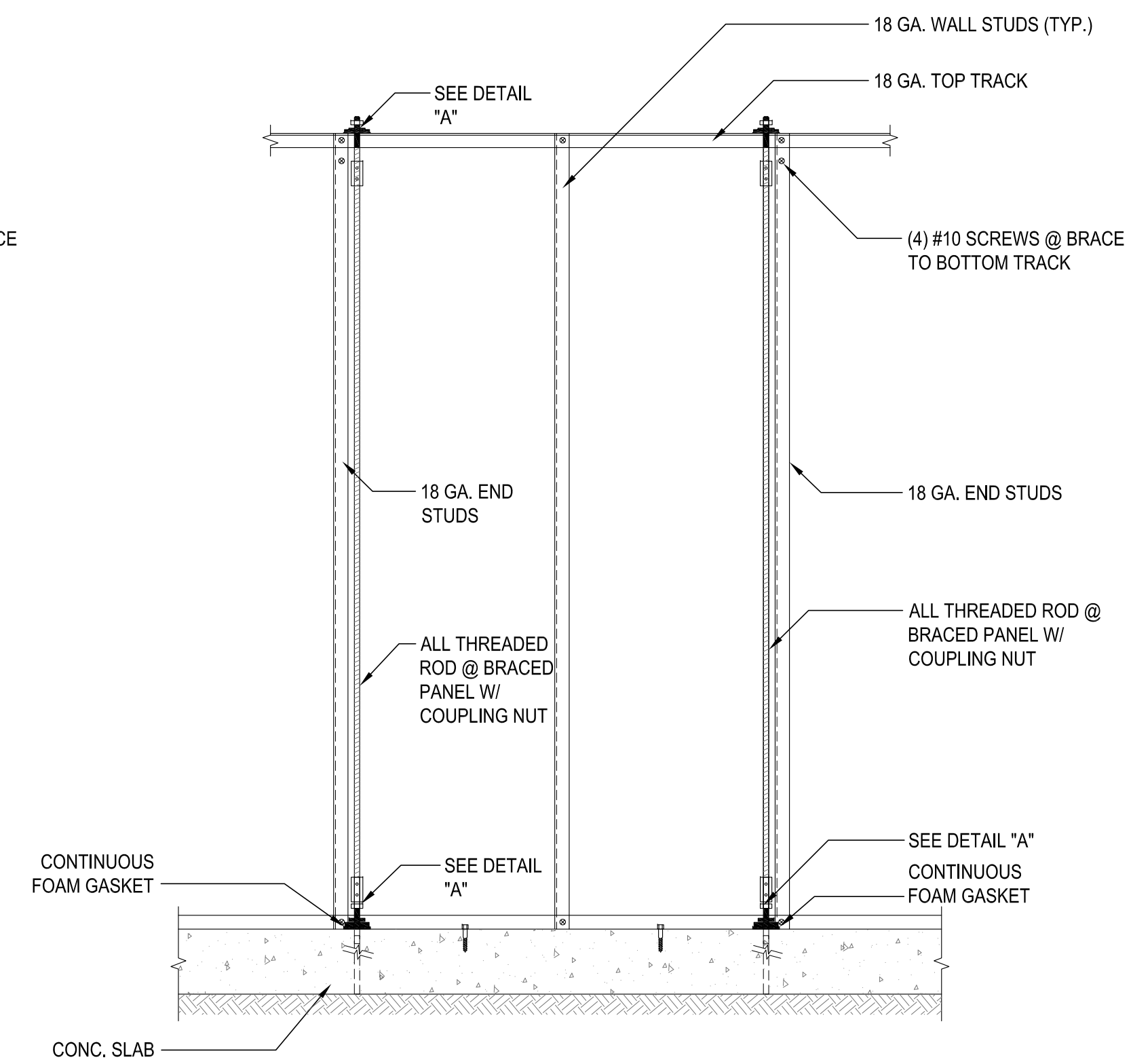
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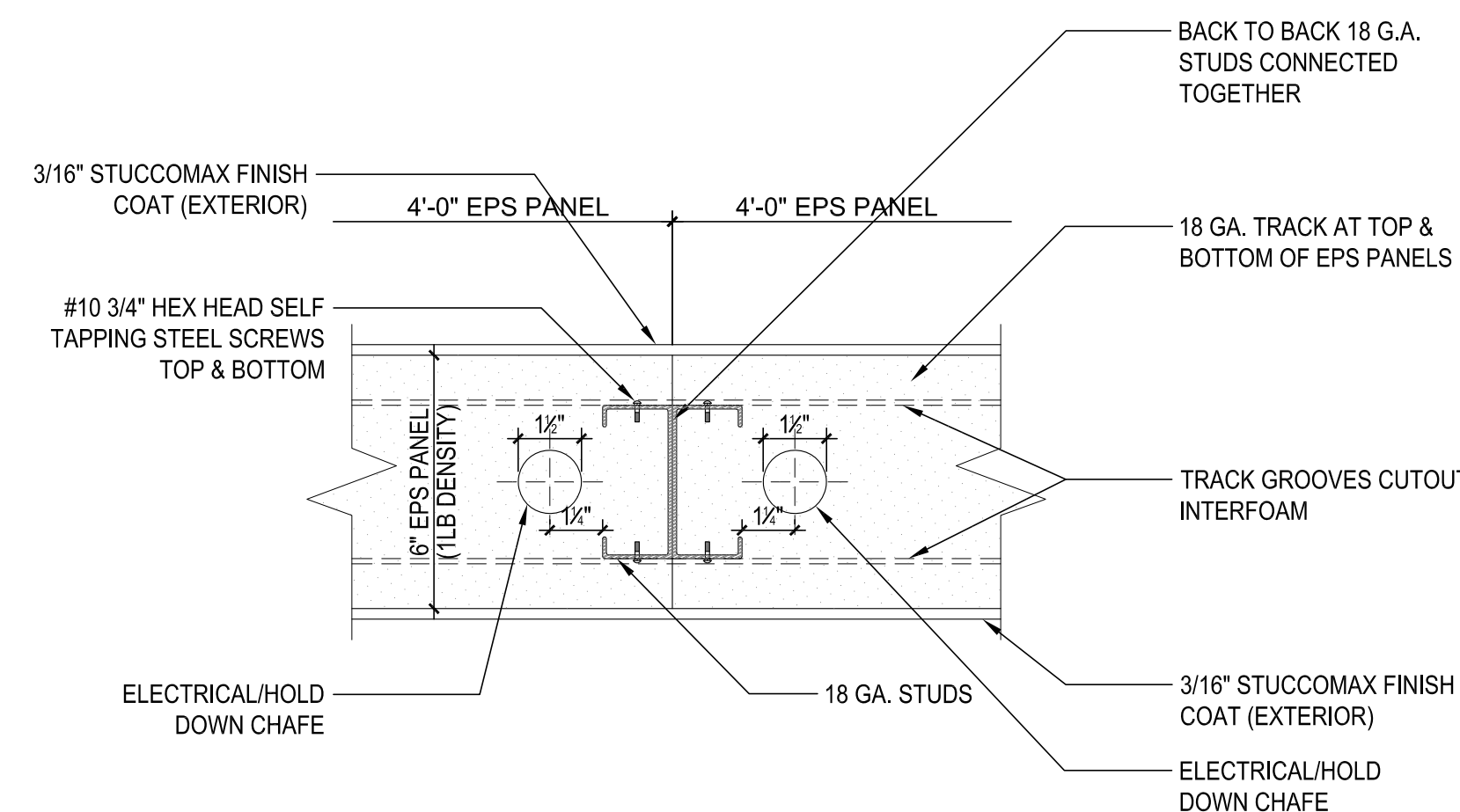
EXTERIOR SHEAR PANEL CROSS BRACING @ BOTTOM OF STUD WALL (SECTION VIEW) (TYPICAL)



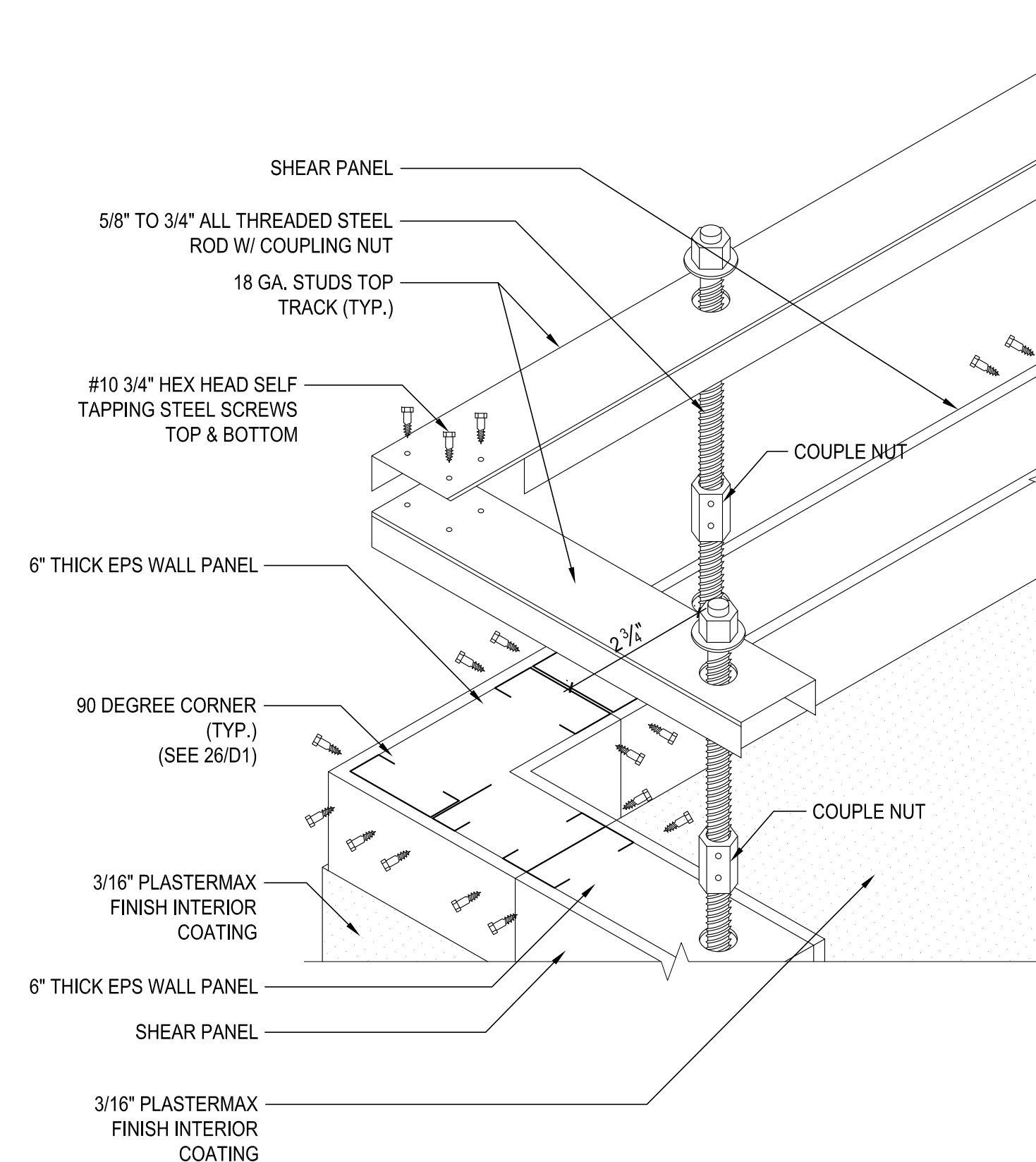
SHEAR PANEL CROSS BRACING AT TOP OF STUD WALL (SECTION VIEW) (TYPICAL)



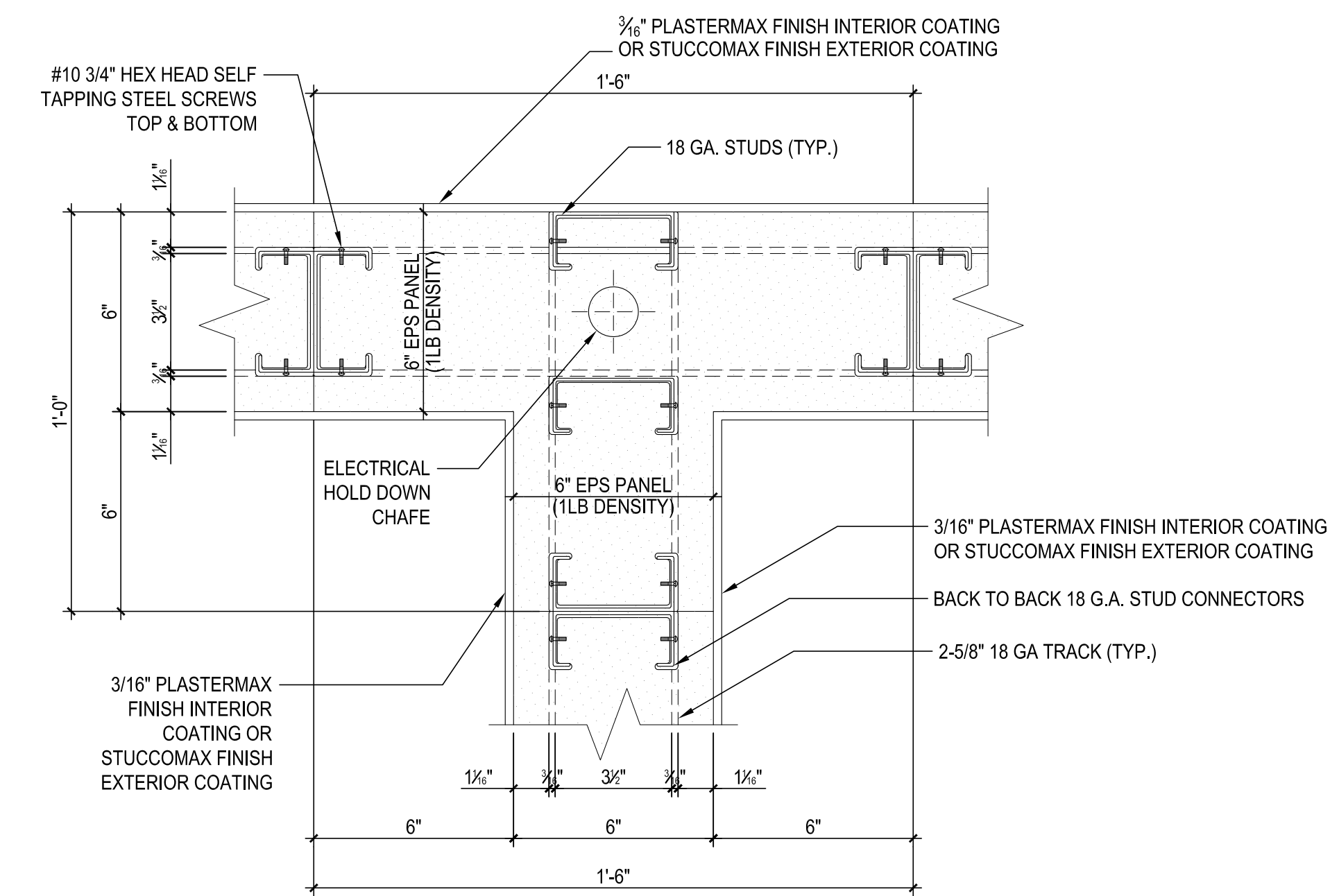
NON-SHEAR PANEL CROSS BRACING AT TOP OF STUD WALL (SECTION VIEW) (TYPICAL)



INLINE CONNECTION UTILIZING PATENTED STUD CONNECTOR (TYPICAL)



SHEAR PANEL TOP INSTALLATION (TYPICAL)



TYPICAL TEE CONNECTION (TYPICAL 6")



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PROPOSED GIGACRETE AFFORDABLE HOUSING (SHOW MODEL/OFFICE)

OWNER: MICRONESIA GREEN BUILDING TECHNOLOGY, LLC MARK MANIBUSAN

LOCATION: LOT 2021-1-1-10-1NEW, MARINE DRIVE, TAMUNING GUAM

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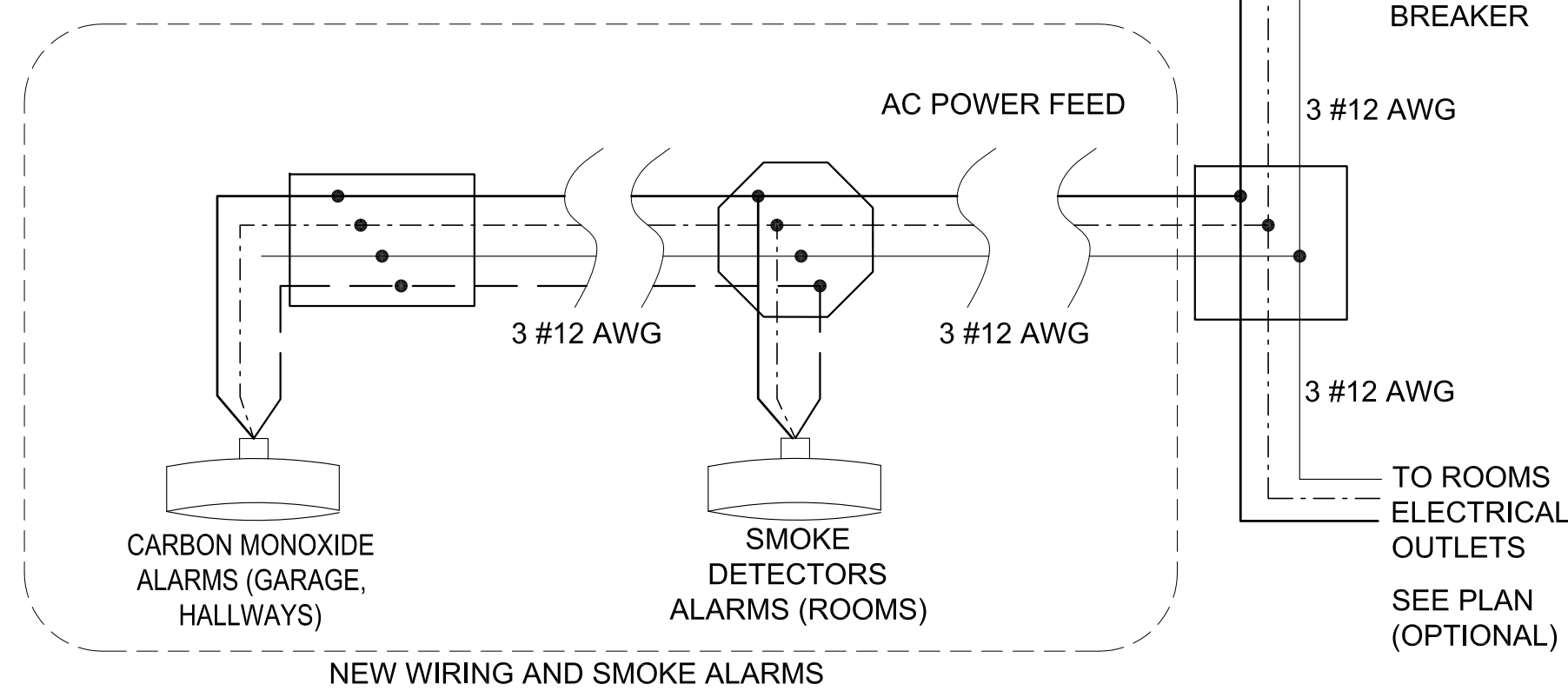
DRAWING NUMBER

E-2

SHEET OF

- - - - NEUTRAL (WHITE)
- - - - RED (ALARM INTERCONNECT)
- - - - GROUND (BARE COPPER)

GROUND FLOOR



3 CONDUIT SECTION DETAIL
E-2 SCALE: NTS

LEGEND:

- CM CARBON MONOXIDE
- S SMOKE DETECTOR UL 217

SMOKE DETECTOR & FIRE ALARM SPECIFICATIONS

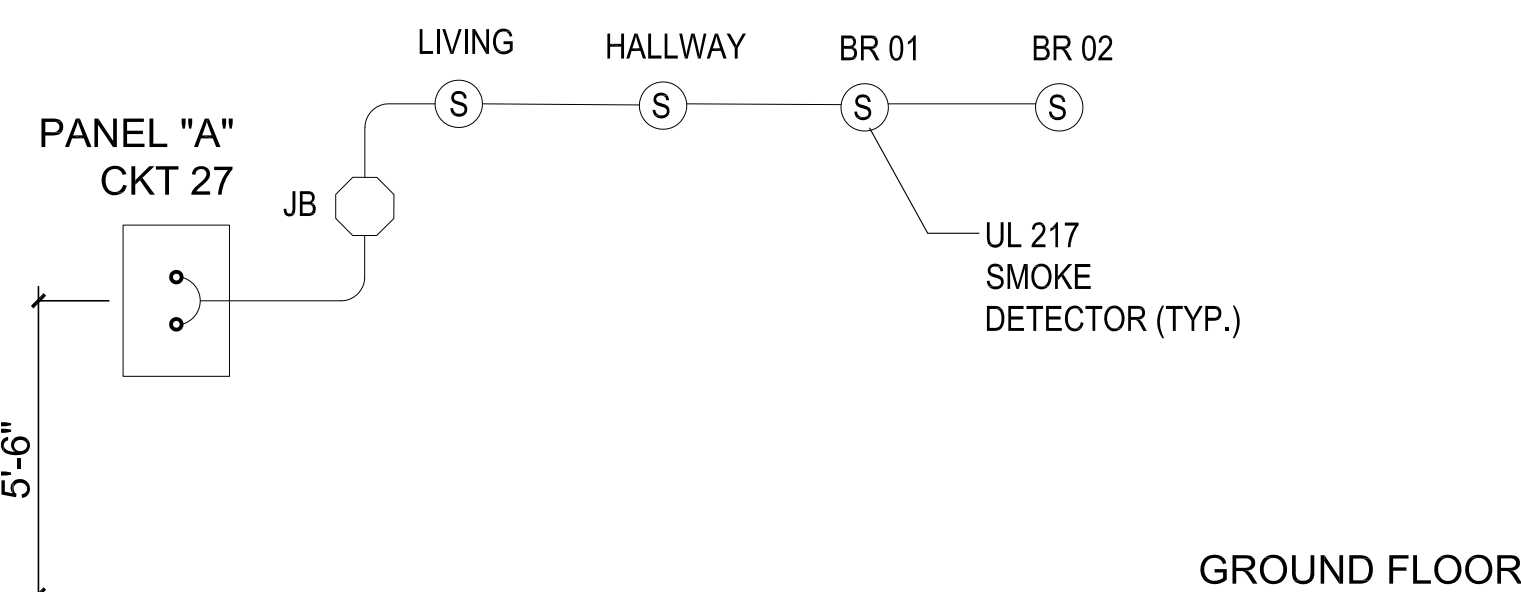
MARK SYMBOL	DESCRIPTION	LOCATIONS	QUANTITY	MODEL	INTERCONNECTION POWER
S	SMOKE ALARM	BEDROOMS/LIVING AREA, DINING AREA	5	FIREX 21007581	120V AC WIRE-IN WITH BATTERY BACKUP AND HUSH
CM	CARBON MONOXIDE	GARAGE, HALLWAY	0	KIDDIE 900-0120	120V AC DIRECT WIRE WITH BATTERY BACKUP

NOTE ON SMOKE DETECTORS:

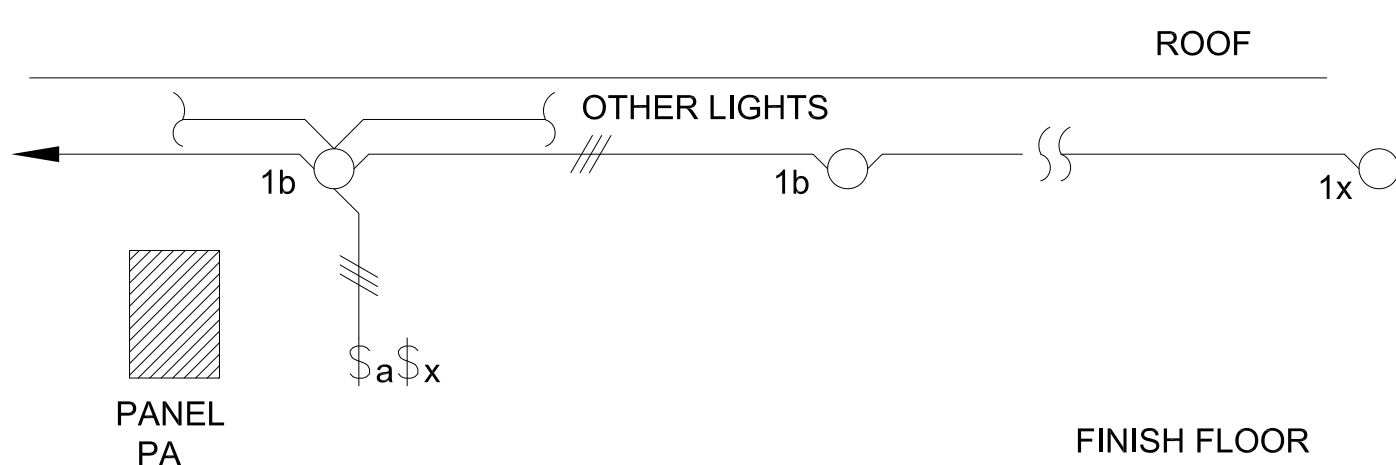
1. SINGLE STATION SMOKE DETECTORS SHALL BE WIRED IN TANDEM SO THAT ACTIVATION OF ONE DETECTOR SHALL CAUSE THE OTHER DETECTORS TO SOUND AN ALARM



ROOF



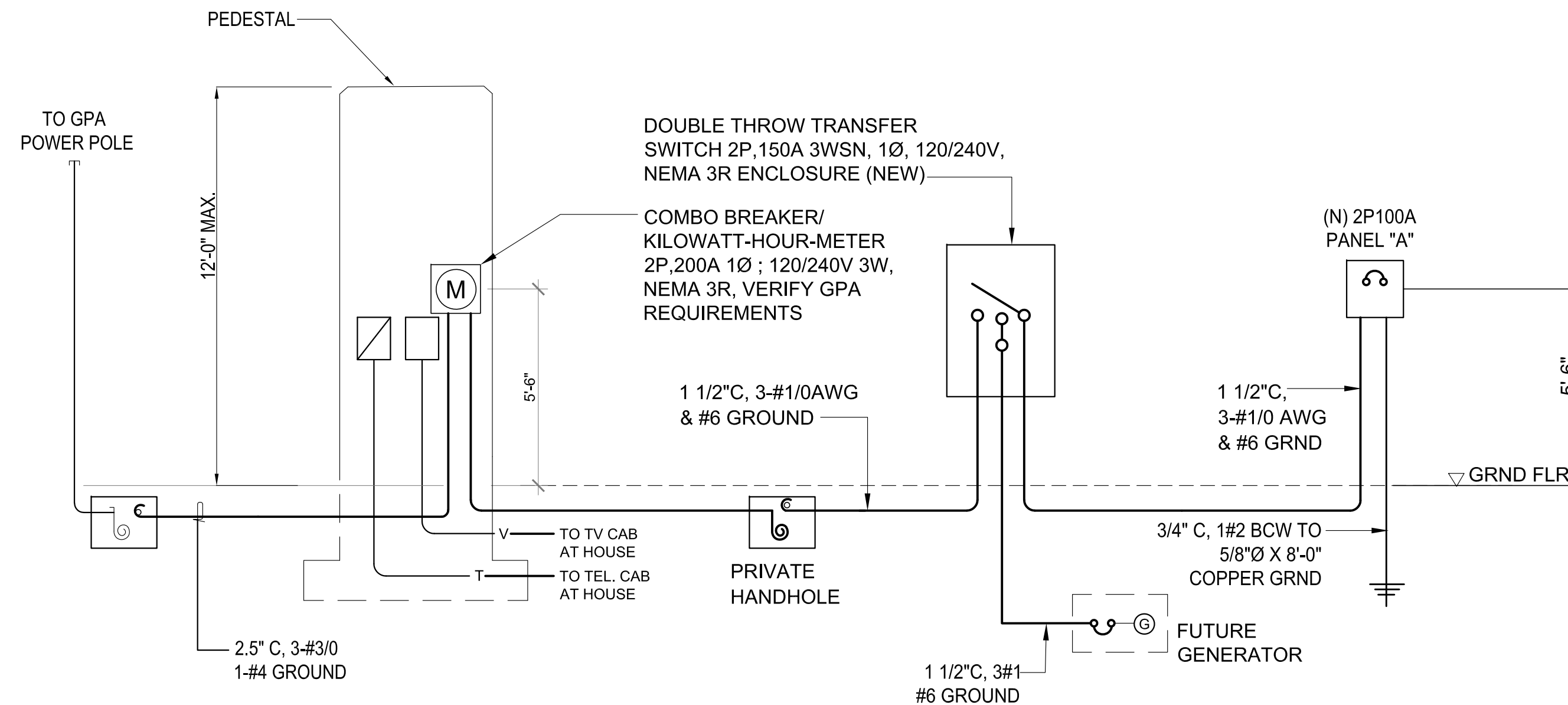
5 SMOKE ALARM INTERCONNECTION DIAGRAM
E-2 SCALE: NTS



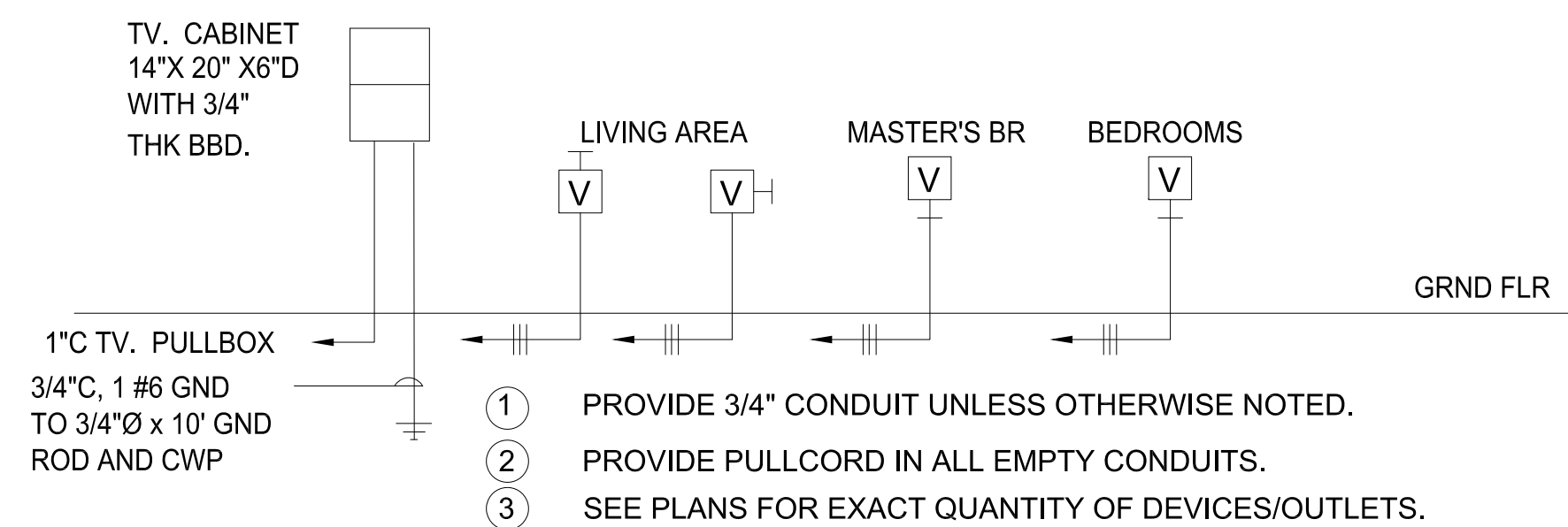
- 1 SEE PLANS FOR EXACT QUANTITY OF DEVICES/OUTLETS.

LIGHTING CONNECTION DIAGRAM

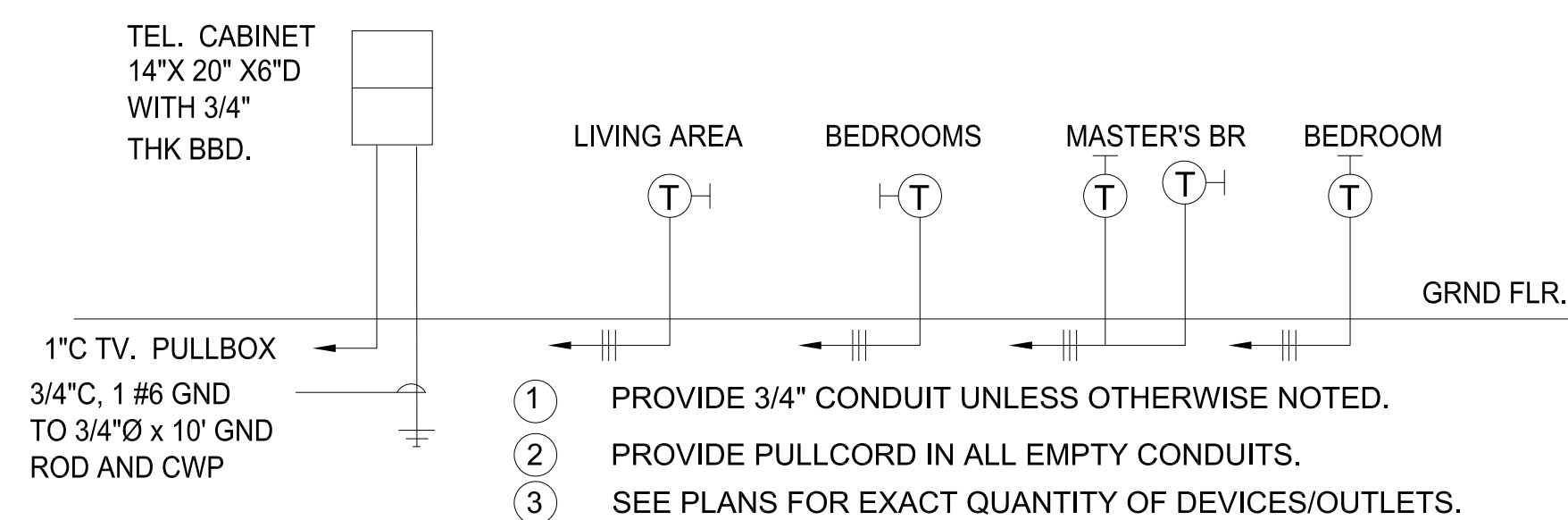
NTS



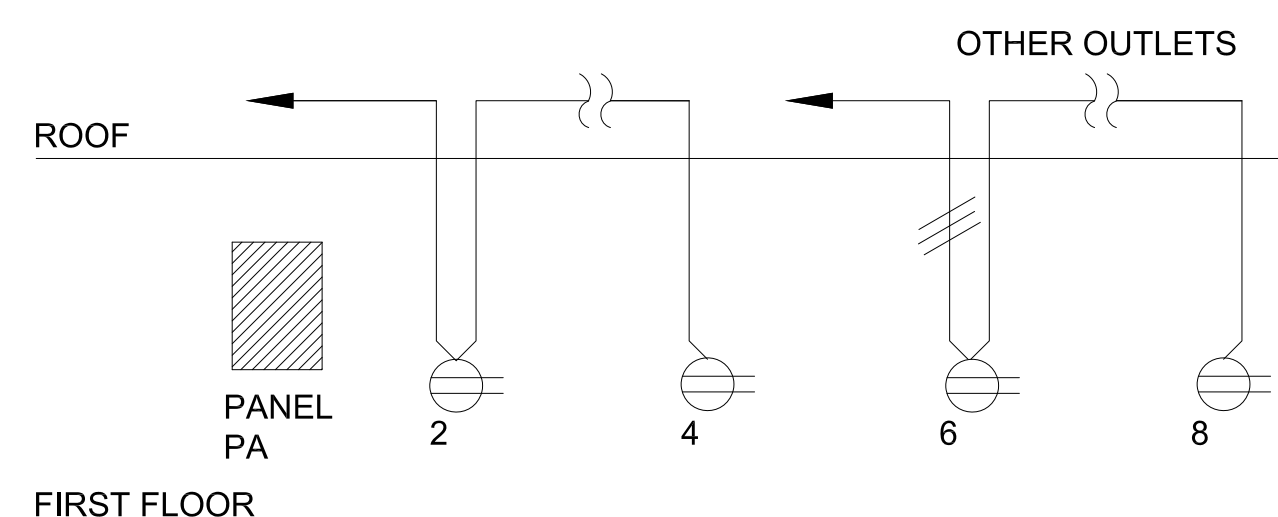
3 POWER ONE-LINE DIAGRAM
E-2 SCALE: NTS



4 CATV RISER DIAGRAM
E-2 SCALE: NTS



5 TEL RISER DIAGRAM
E-2 SCALE: NTS



- 1 SEE PLANS FOR EXACT QUANTITY OF DEVICE/OUTLETS.

POWER CONNECTION DIAGRAM

NTS



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PROJECT TITLE: **PROPOSED GIGACRETE AFFORDABLE HOUSING (SHOW MODEL/OFFICE)**

OWNER: MICRONESIA GREEN BUILDING TECHNOLOGY, LLC MARK MANIBUSAN

LOCATION: LOT 2021-1-1-10-1NEW, MARINE DRIVE, TAMUNING GUAM

PROJECT TITLE

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FILE NAME: GUAM ADU

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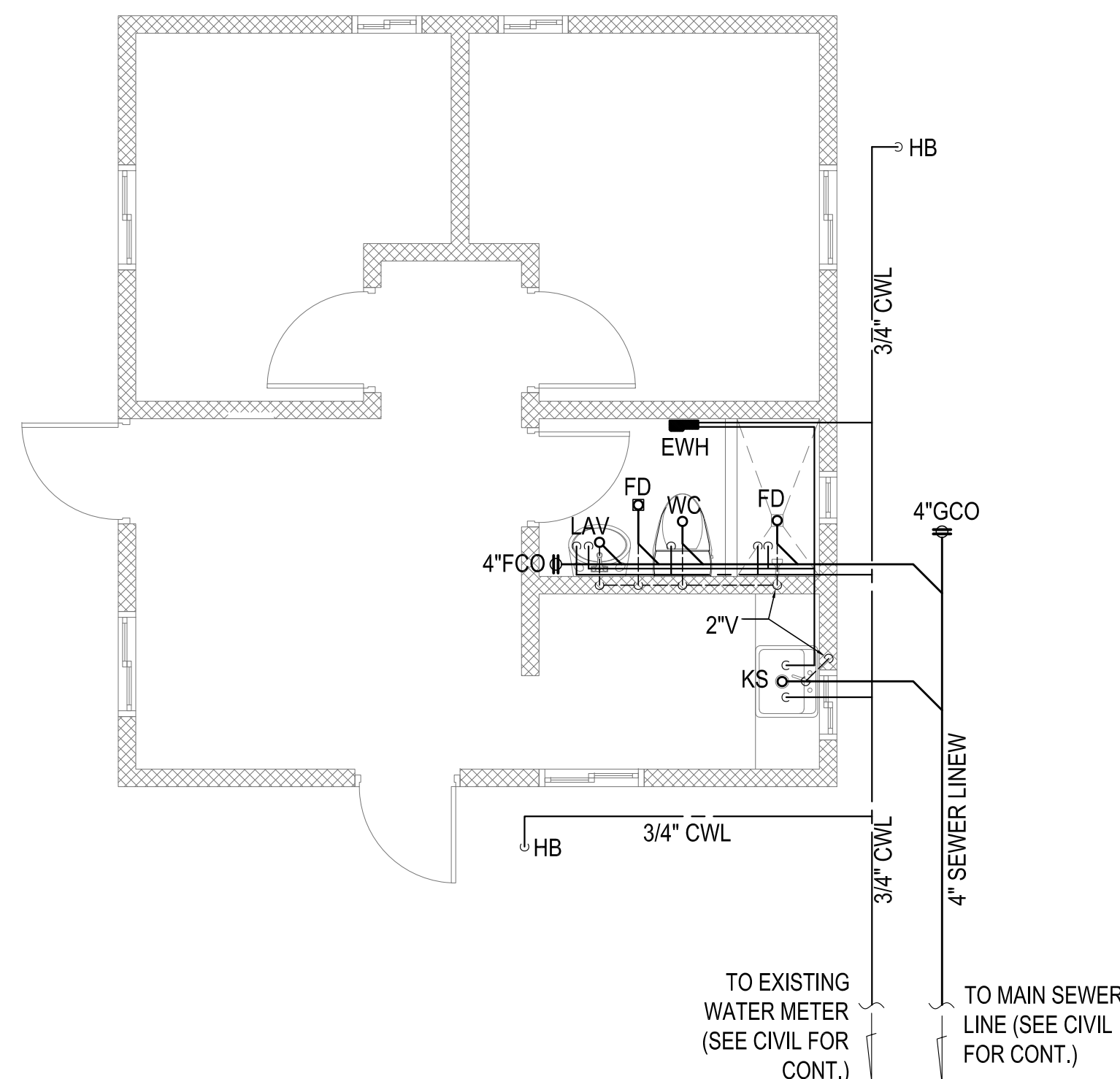
CHECK BY:

DATE: October 23, 2021

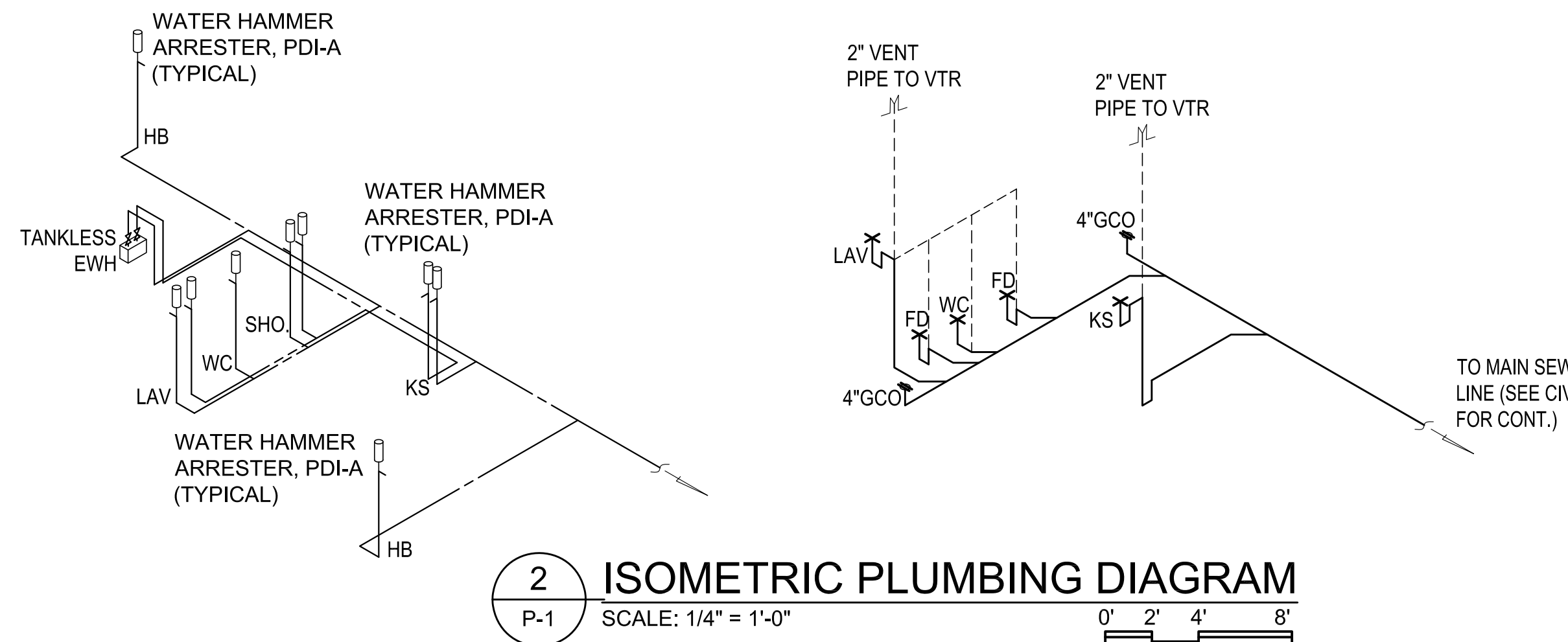
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P-1

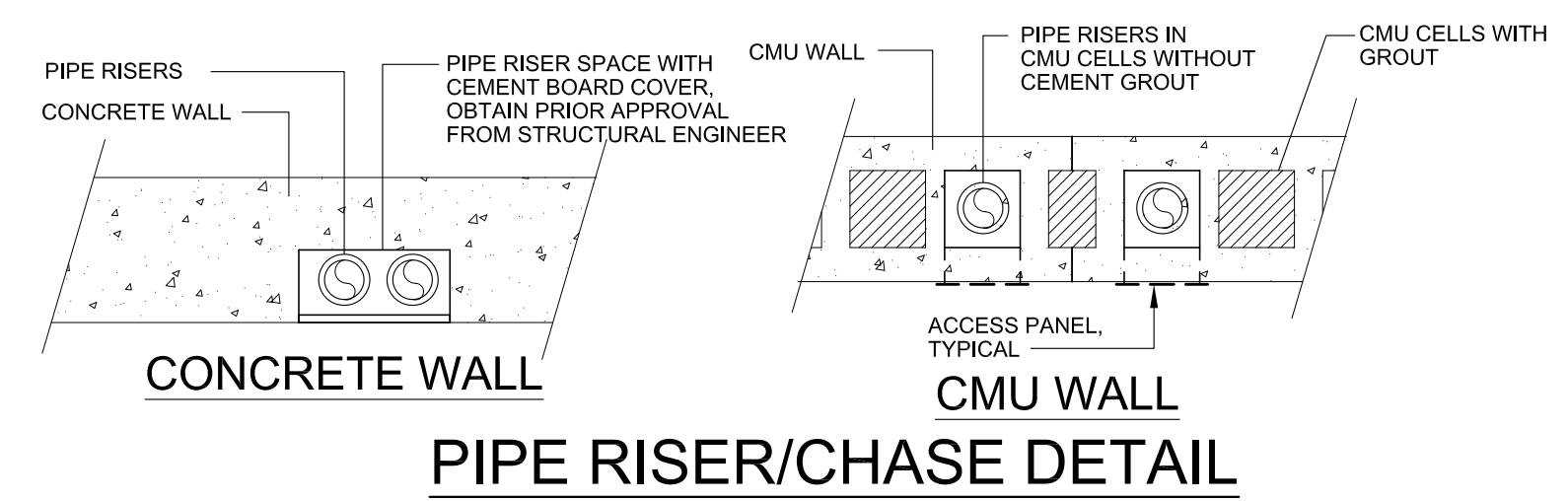
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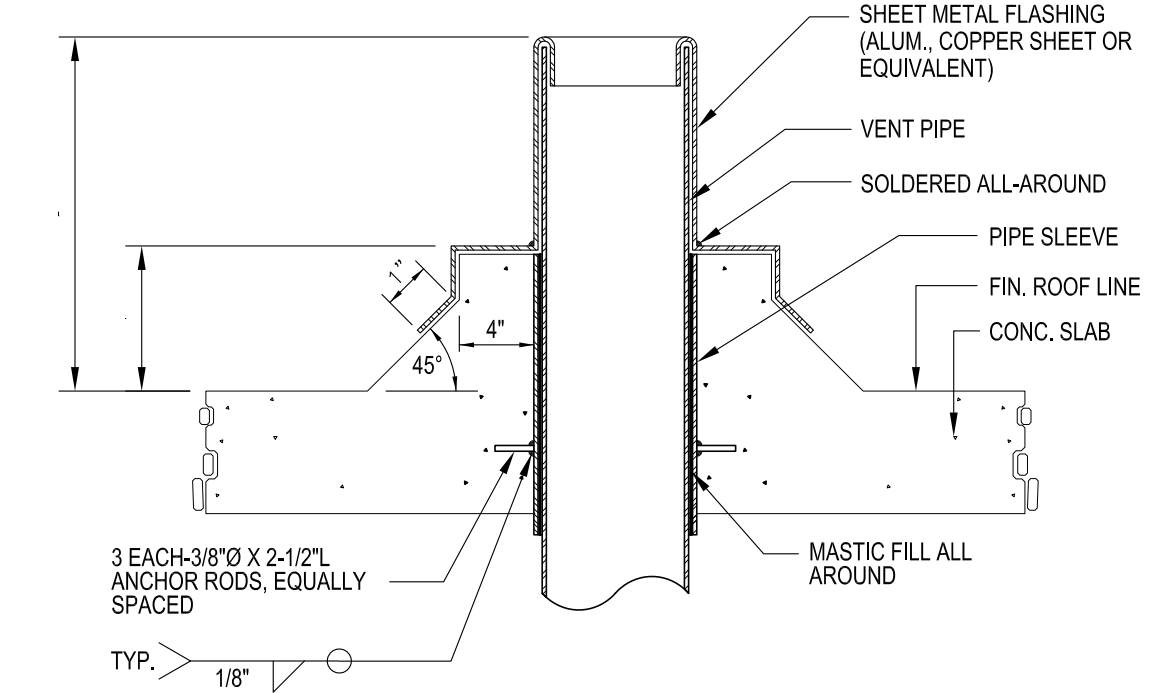
1 PLUMBING LAYOUT PLAN
P-1 SCALE: 1/4" = 1'-0"



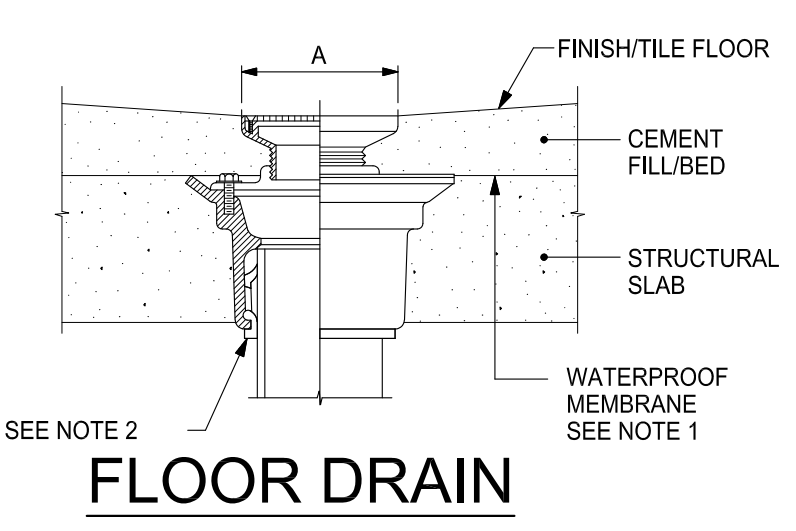
2 ISOMETRIC PLUMBING DIAGRAM
P-1 SCALE: 1/4" = 1'-0"



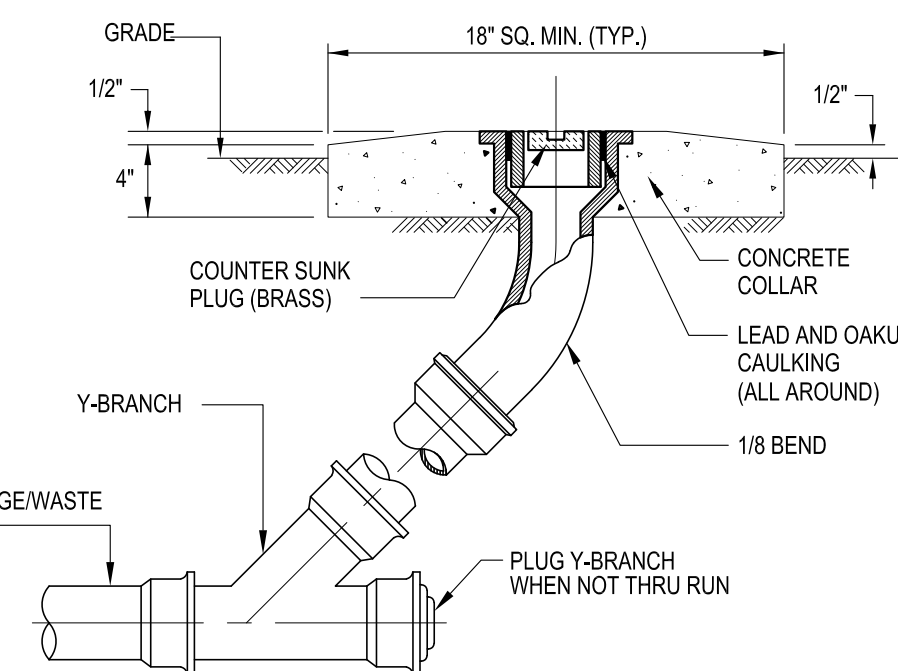
PIPE RISER/CHASE DETAIL



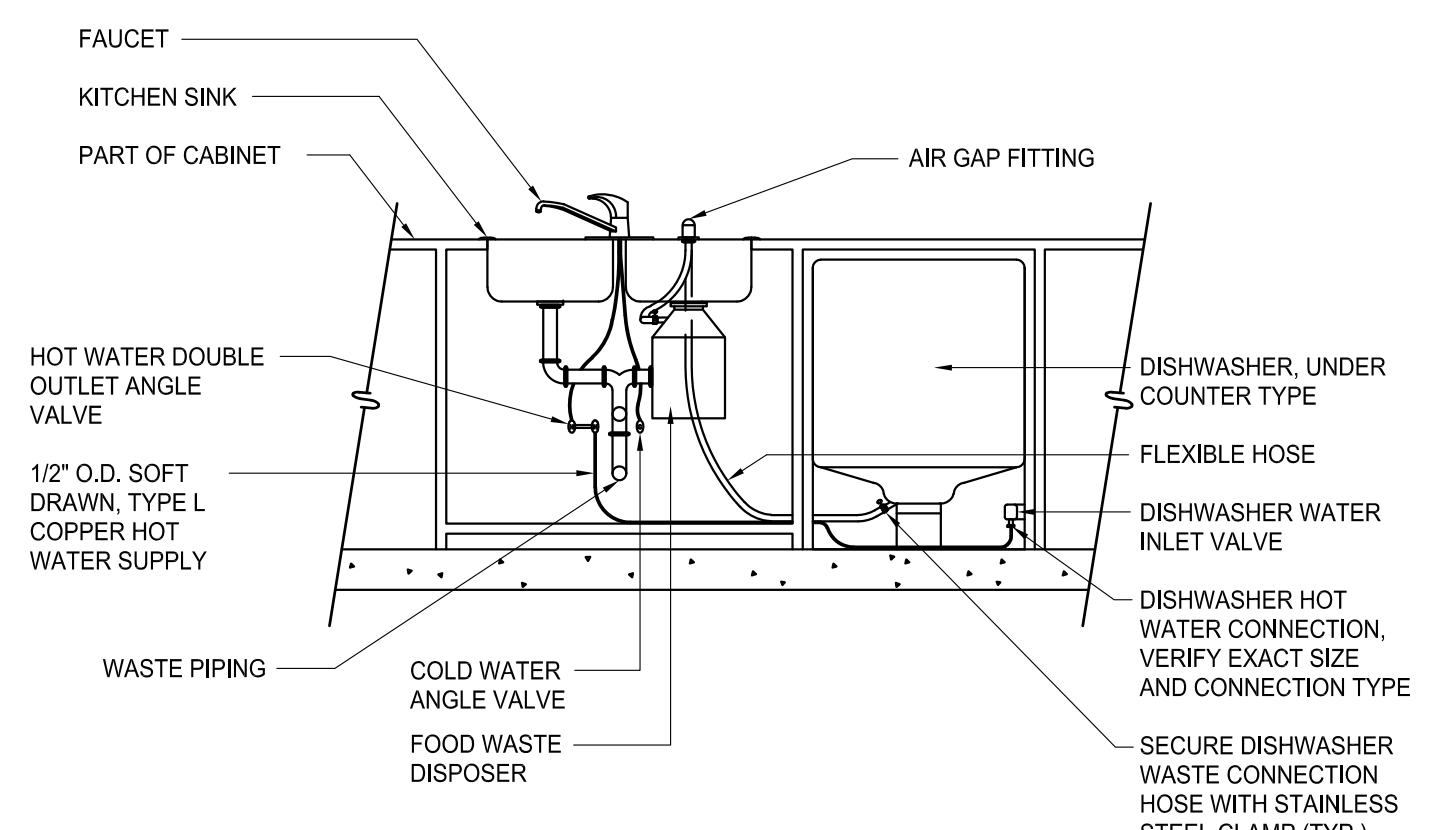
VENT THRU ROOF



FLOOR DRAIN



GROUND CLEANOUT



DISHWASHER DETAIL

GENERAL NOTES

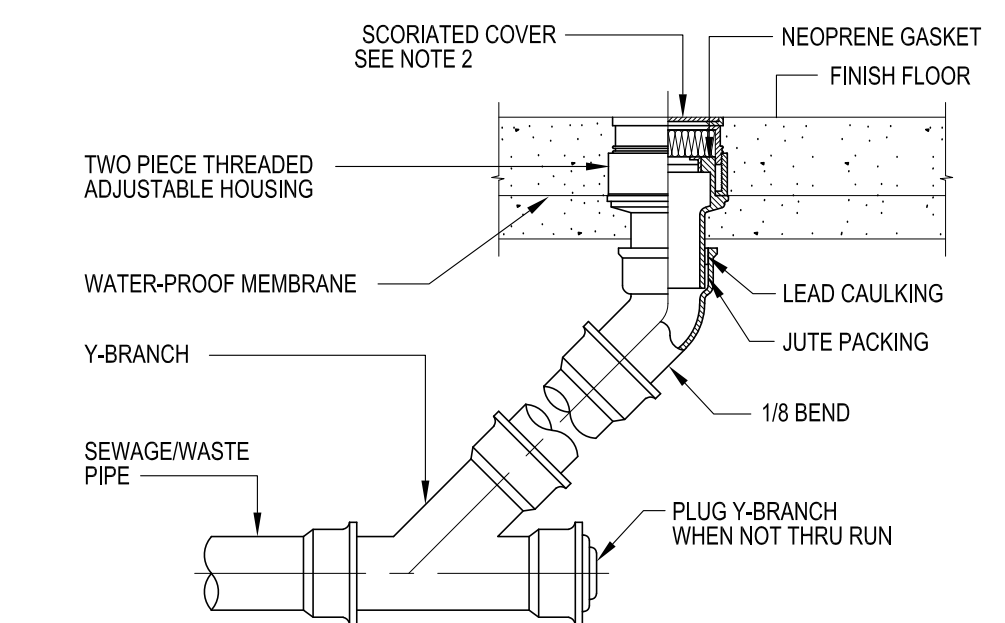
- ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNMENT LAWS, ORDINANCES, RULES & REGULATIONS. MECHANICAL WORK SHALL CONFORM WITH THE CURRENT EDITION OF THE INTERNATIONAL MECHANICAL CODE, INTERNATIONAL BUILDING CODE, NFPA 90A AND NFPA 54.
- CONTRACTOR SHALL OBTAIN & PAY FOR ALL GOVERNMENT PERMITS REQUIRED AND COORDINATE INSPECTIONS BY GOVERNMENT AUTHORITIES.
- PROVIDE ALL MATERIALS & EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE PLUMBING SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE (UBC, UMC, UPC & NFPA) AND LOCAL REGULATIONS, LAWS & ORDERS.
- CONTRACT DOCUMENT DRAWINGS FOR PLUMBING WORK ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.
- VERIFY EXISTING MAIN SEWER ELEVATION BEFORE START OF CONSTRUCTION. NEW SEWER LINES SHALL SLOPE 1/4" PER FOOT; IF CRITICAL DUE TO EXISTING INVERT ELEVATION, REQUIRED SLOPE SHALL BE AS ADVISED BY ENGINEER.
- COORDINATE CONSTRUCTION OF ALL PLUMBING WORK WITH ARCHITECTURAL, STRUCTURAL, CIVIL, ELECTRICAL & OTHER TRADES SHOWN ON OTHER CONTRACT DOCUMENT DRAWINGS.
- ALL TESTS SHALL BE COMPLETED BEFORE ANY PLUMBING EQUIPMENT OR PIPING INSULATION IS APPLIED.
- COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. PROVIDE ALL VALVES, FITTINGS AND PIPING TRANSITIONS REQUIRED FOR ALL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE FABRICATION.
- PROVIDE GALVANIZED PIPE OR DUCT SLEEVES IN PIPE PENETRATION THRU WALLS AND FLOORS AND PROPERLY CAULKED IN A MANNER APPROVED BY ENGINEER.
- RUN ALL SOIL, WASTE & VENT PIPING WITH MINIMUM 2% GRADE UNLESS OTHERWISE NOTED. HORIZONTAL VENT PIPING SHALL BE GRADED TO DRIP BACK TO THE SOIL OR WASTE PIPE BY GRAVITY.
- ALL PIPING UNDER OR THRU WALLS, FOOTINGS AND COLUMNS WHERE APPLICABLE SHALL BE PROVIDED WITH 18 GAGE SHEET METAL OR STANDARD GALV. SLEEVES. NO PLUMBING PIPES SHALL BE DIRECTLY IMBEDDED IN CONCRETE OR MASONRY WALLS OR FOOTINGS WHICH SHALL SERIOUSLY WEAKEN OR CAUSE UNDUE STRAINS ON STRUCTURAL MEMBERS. COORDINATE WITH PROJECT ENGINEER BEFORE START OF CONSTRUCTION.
- INSTALL PIPING SO THAT ALL VALVES, STRAINERS, UNIONS, TRAPS, FLANGES, AND OTHER APPURTENANCES REQUIRING ACCESS ARE ACCESSIBLE.
- PROVIDE ALL PLUMBING FIXTURES AND EQUIPMENT WITH ACCESSIBLE STOP VALVES.
- ALL CLEANOUTS SHALL BE FULL SIZE OF PIPE FOR PIPE SIZES 6 INCHES AND SMALLER, AND SHALL BE 6 INCHES FOR PIPE SIZES LARGER THAN 6 INCHES.
- ALL PIPING WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN PIPING AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- WATER LINES SHALL BE DISINFECTED AS REQUIRED BY GEPA AND GWA BEFORE USAGE FOR HUMAN CONSUMPTION:
 - CONTRACTOR SHALL DISINFECT AND/OR CHLORINATE ALL POTABLE WATER PIPING SYSTEM PRIOR TO USE OF WATER FOR HUMAN CONSUMPTION OR TO OCCUPY THE BUILDING.
 - DISINFECTION AND CHLORINATION MUST BE COORDINATED WITH GEPA STAFF. SCHEDULE OF DISINFECTION MUST BE DONE 4-WORKING DAYS IN ADVANCE.
 - SUBMIT BACTERIOLOGICAL AND LEAD ANALYTICAL TEST RESULTS TO GEPA FOR EVALUATION.
 - CHLORINATION AND DISINFECTION METHOD MUST COMPLY WITH AWWA C651-86 STANDARD.
 - USE LEAD FREE MATERIALS AND/OR SOLDER FLUX TO ALL POTABLE WATER PIPING SYSTEM.
 - PERSON OVERSEEING DISINFECTION SHALL HAVE A CURRENT CERTIFICATION FROM GEPA.
- ALL PLUMBING FIXTURES AND FITTINGS THAT SUPPLY DRINKING WATER FOR HUMAN CONSUMPTION SHALL CONFORM TO THE REQUIREMENTS OF ANS/NSF 61, SECTION 9.
- CONTRACTOR SHALL SUBMIT TO THE ARCHITECT-ENGINEER AND/OR OWNER ONE (1) SET OF REPRODUCIBLE AS-BUILT DRAWINGS AFTER CONCLUSION OF WORK.

NOTES:

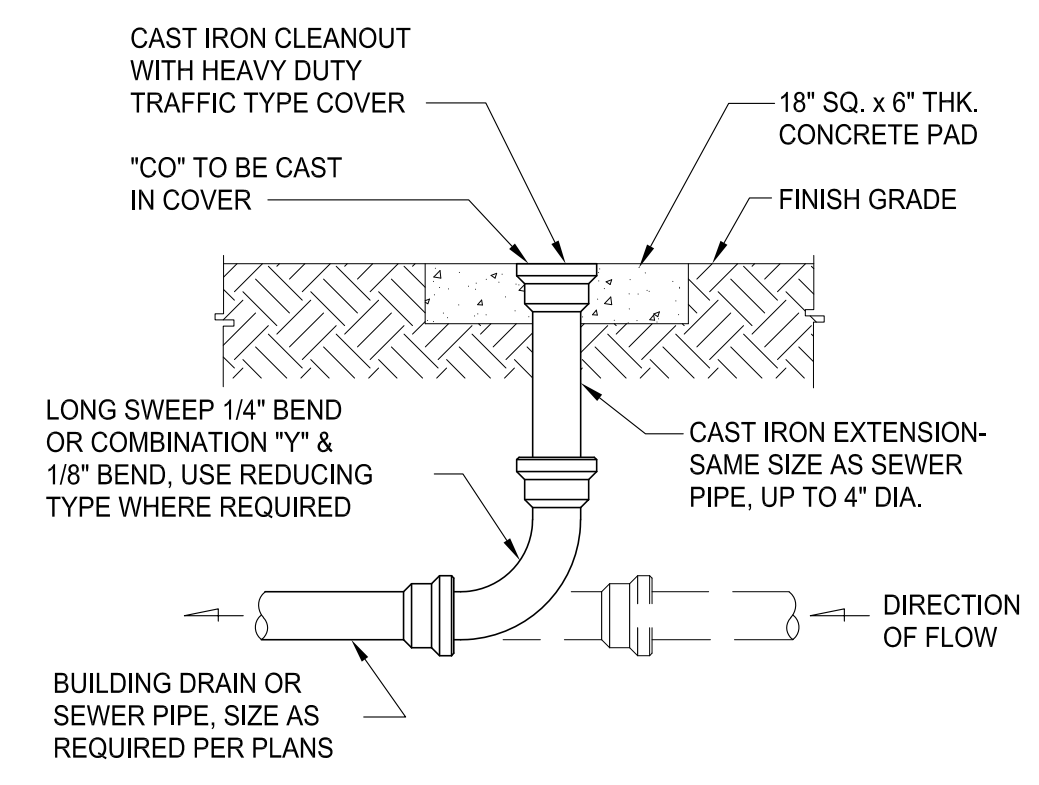
- ALL FIXTURES AND FAUCETS SHALL CONFORM TO ASME STANDARDS AND COMPLY WITH ANS/NSF-61 STANDARDS. FAUCETS SHALL INCLUDE AERATORS, "AMERICAN STANDARD" OR "KOHLER".
- PROVIDE WATER SUPPLY ANGLE STOPS, COMPLETE WITH STAINLESS STEEL FLEXIBLE SUPPLY TUBING AND CHROME FINISH WALL ESCUTCHEON PLATES.
- PROVIDE CHROME FINISH P-TRAPS & TAILPIECE, STRAINERS, GRID DRAIN, COMPLETE WITH CHROME FINISH WALL ESCUTCHEON PLATES.
- SUBMIT ALL PRODUCT CATALOG CUTS TO ARCHITECT FOR REVIEW & APPROVAL.

LEGEND & ABBREVIATIONS

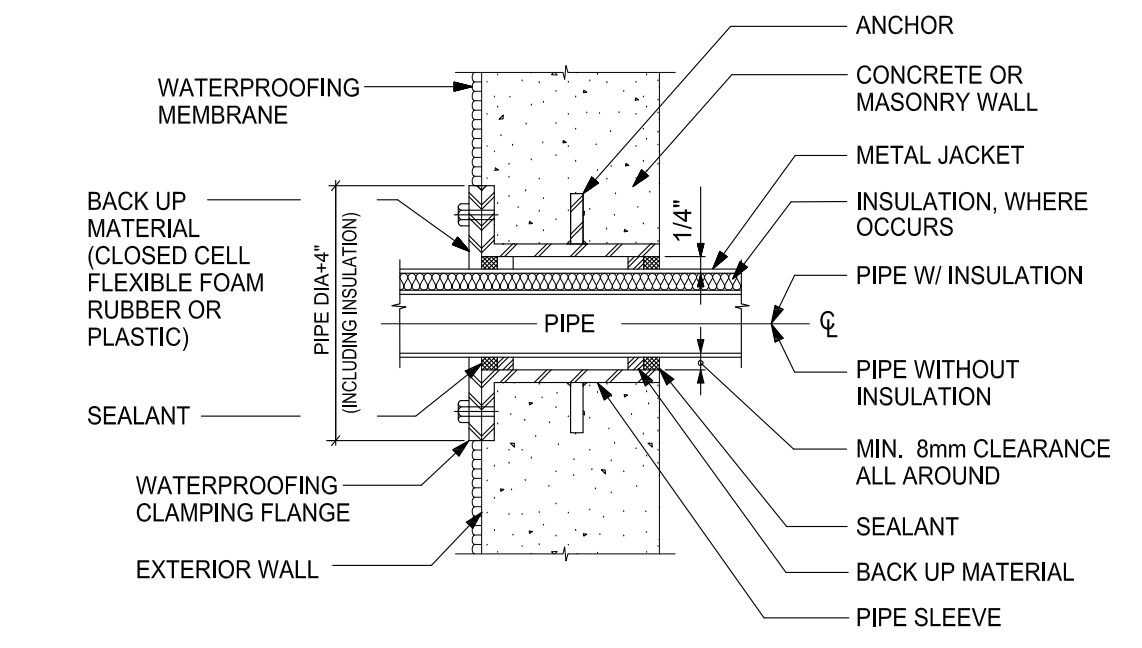
SYMBOL	LEGEND	DESCRIPTION
---	CW	POTABLE COLD WATER PIPING
---	RW	NON-POTABLE RAINWATER PIPING
---	HW	HOT WATER PIPING
---	S/W	SOIL/WASTE PIPING
---	V	VENT PIPING
---	ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
---	FCO	FLOOR CLEANOUT
---	FD	FLOOR DRAIN
---	GCO	GROUND CLEANOUT
---	GEPA	GUAM ENVIRONMENTAL PROTECTION AGENCY
---	G.V.	GATE VALVE
---	GWA	GUAM WATERWORKS AUTHORITY
---	KS	KITCHEN SINK
---	A.P.	ACCESS PANEL
---	LAV	LAVATORY
---	NSF	NATIONAL SANITATION FOUNDATION
---	OFCI	OWNER FURNISH CONTRACTOR INSTALL
---	SK	KITCHEN SINK
---	SS	SERVICE SINK
---	UR	URINAL
---	VTR	VENT THRU ROOF
---	WCO	WALL CLEANOUT
---	WC	WATER CLOSET
---	WHA	WATER HAMMER ARRESTER
---	P.D.I.	PLUMBING & DRAINAGE INSTITUTE



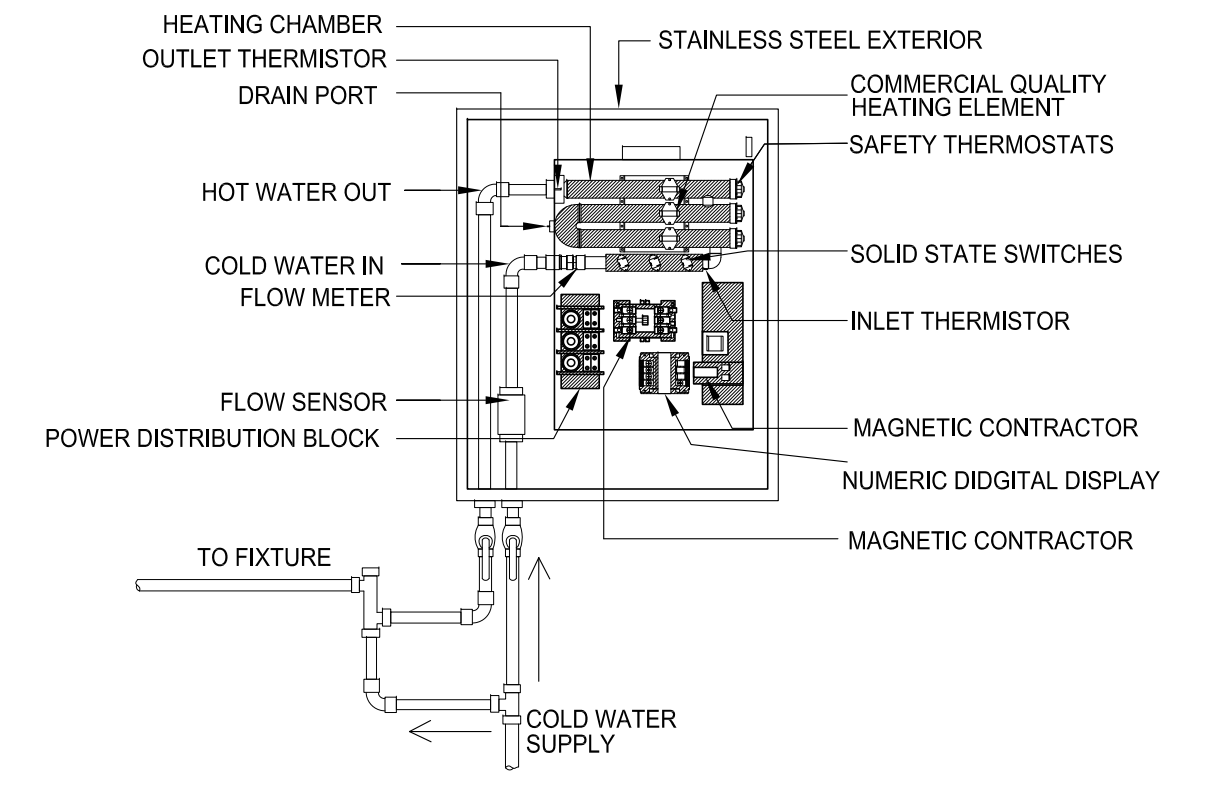
FLOOR CLEANOUT



CLEANOUT TO GRADE



PIPE SLEEVE-THRU FOOTING



TANKLESS ELEC. WATER HEATER DETAIL