

<b>Condition 22</b>	<b>Seismic Requirements</b>
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All proposed facilities shall be designed and constructed in accordance with UBC Seismic Zone 4 regulations.

**Evidence of compliance:**

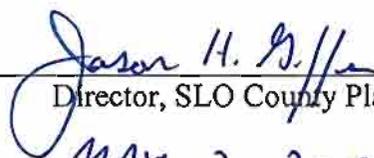
**Collection System:** Buildings associated with the Los Osos Waste Water project collection system will be constructed in accordance with the Pump Stations package on file with the Planning and Building Department, and are limited to the back up power buildings. There will be a total of eight (8) standby power buildings and each was designed to resist seismic and wind loads in accordance with the 2010 California Building Code and ASCE 9-05-minimum design loads. It should be noted that the Seismic Zone 4 regulations noted in Condition 22 are no longer in effect as the 1997 UBC that prescribed them is superseded by the 2010 CBC, which was used in the design of this project.

**Treatment Facility:** All structures associated with the treatment facility will also be designed to resist seismic and wind loads in accordance with the 2010 California Building Code and ASCE 9-05-minimum design loads as referenced above. Upon completion of the final design for the treatment facility, a second verification package associated with Condition 22 will be submitted for review and approval by the Planning Director. This submittal will also contain a complete set of construction documents for the treatment facility and will be submitted and approved prior to commencement of construction of the treatment facility site.

For reference, and verification of condition compliance, attached are copies of stamped and signed plans by the licensed engineer in charge of project seismic design. Specifically the following attached sheets show information relative to seismic design:

PS-G-001	Cover Sheet
PS-G-003	List of Drawings
PS-S-001 thru PS-S-007	Structural Notes and Details
PS-S-011 thru PS-S014	Pump Station and Standby Power Building Design
PS-A-001 thru PS-A-003	Architectural Drawings (Standby Power Buildings)

Condition Satisfied

  
\_\_\_\_\_  
Director, SLO County Planning

MAY 2, 2012

\_\_\_\_\_  
Date

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# County of San Luis Obispo Los Osos, California

Drawings for the Construction of

# Los Osos Wastewater Collection System Project Pump Stations (PS)

VOLUME II

APRIL 2012

THE STRUCTURES HAVE BEEN DESIGNED TO  
RESIST SEISMIC AND WIND LOADS IN ACCORDANCE  
WITH THE 2010 CALIFORNIA BUILDING CODE AND  
ASCE 7-05 –MINIMUM DESIGN LOADS FOR  
BUILDINGS AND OTHER STRUCTURES.



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# LIST OF DRAWINGS

## GENERAL

- PS-G-001 COVER
- PS-G-002 LOCATION MAP, VICINITY MAP, AND SITE PLAN
- PS-G-003 LIST OF PS DRAWINGS
- PS-G-004 GENERAL SURVEY DATA, AGENCY CONTACT INFORMATION
- PS-G-005 (NOT USED)
- PS-G-006 (NOT USED)
- PS-G-007 (NOT USED)
- PS-G-008 (NOT USED)
- PS-G-009 (NOT USED)
- PS-G-010 GENERAL NOTES
- PS-G-011 GENERAL SYMBOLS
- PS-G-012 GENERAL ABBREVIATIONS

## TRAFFIC CONTROL

- PS-TC-001 AREA PS TRAFFIC CONTROL PLAN - GENERAL NOTES, LEGEND AND ABBREVIATIONS
- PS-TC-002 AREA PS TRAFFIC CONTROL PLAN - DETAIL SHEETS: PAVEMENT MARKERS AND TRAFFIC LINES
- PS-TC-003 AREA PS TRAFFIC CONTROL PLAN - DETAIL SHEETS: PAVEMENT MARKINGS, ARROWS AND WORDS
- PS-TC-004 AREA PS TRAFFIC CONTROL PLAN - DETAIL SHEETS: DELINEATORS, CHANNELIZERS AND BARRICADES
- PS-TC-005 AREA PS TRAFFIC CONTROL PLAN - DETAIL SHEETS: CRASH CUSHIONS
- PS-TC-006 AREA PS TRAFFIC CONTROL PLAN - DETAIL SHEETS: TEMPORARY RAILING (TYPE K)
- PS-TC-007 AREA PS TRAFFIC CONTROL PLAN - DETAIL SHEETS: CALTRANS TRAFFIC CONTROL PLANS
- PS-TC-008 AREA PS TRAFFIC CONTROL PLAN - TYPICAL PUMP STATION SHOULDER AND ROADWAY EDGE WORK
- PS-TC-009 AREA PS TRAFFIC CONTROL PLAN - BAYWOOD PUMP STATION

## CIVIL

- PS-C-001 CIVIL STANDARD CIVIL DETAILS - 1
- PS-C-002 CIVIL STANDARD CIVIL DETAILS - 2
- PS-C-101 CIVIL AREA A KEY PLAN
- PS-C-102 (NOT USED)
- PS-C-103 (NOT USED)
- PS-C-104 CIVIL BAYWOOD/WEST PASO STANDBY POWER SITE PLAN
- PS-C-105 CIVIL EAST YSABEL PS & STANDBY POWER SITE PLAN
- PS-C-106 CIVIL EAST PASO PS & STANDBY POWER SITE PLAN
- PS-C-201 CIVIL AREA B KEY PLAN
- PS-C-202 (NOT USED)
- PS-C-203 CIVIL SOLANO PS & STANDBY POWER SITE PLAN
- PS-C-204 MID-TOWN STANDBY POWER SITE PLAN
- PS-C-205 LUPINE STANDBY POWER SITE PLAN
- PS-C-301 CIVIL AREA C KEY PLAN
- PS-C-302 CIVIL SUNNY OAKS PS & STANDBY POWER SITE PLAN
- PS-C-401 CIVIL AREA D KEY PLAN
- PS-C-402 (NOT USED)
- PS-C-403 MOUNTAIN VIEW STANDBY POWER SITE PLAN

## STRUCTURAL

- PS-S-001 STRUCTURAL NOTES 1
- PS-S-002 STRUCTURAL NOTES 2
- PS-S-003 STANDARD STRUCTURAL DETAILS 1
- PS-S-004 STANDARD STRUCTURAL DETAILS 2
- PS-S-005 STANDARD STRUCTURAL DETAILS 3
- PS-S-006 STANDARD STRUCTURAL DETAILS 4
- PS-S-007 STANDARD STRUCTURAL DETAILS 5
- PS-S-011 STRUCTURAL SUBMERSIBLE PUMP STATIONS FOUNDATION PLANS, SECTION AND DETAILS
- PS-S-012 STRUCTURAL POCKET PUMP STATION PLAN, SECTION AND DETAILS
- PS-S-013 STRUCTURAL STANDBY POWER BUILDING FOUNDATION AND ROOF PLAN
- PS-S-014 STRUCTURAL STANDBY POWER BUILDING SECTIONS

## MECHANICAL

- PS-M-001 MECHANICAL STANDARD DETAILS - 1
- PS-M-002 (NOT USED)
- PS-M-003 MECHANICAL POCKET PUMP STATIONS PLAN & SECTIONS
- PS-M-004 MECHANICAL SUBMERSIBLE PUMP STATIONS DUPLEX LAYOUT - PLAN & SECTION
- PS-M-005 MECHANICAL SUBMERSIBLE PUMP STATIONS TRIPLEX LAYOUT - PLAN & SECTION
- PS-M-006 MECHANICAL STANDBY POWER BUILDING PLAN & SECTION DIESEL ENGINE
- PS-M-007 MECHANICAL STANDBY POWER BUILDING PLAN & SECTION NATURAL GAS ENGINE
- PS-M-008 ODOR CONTROL VAULT MID-TOWN PUMP STATION

## ARCHITECTURAL

- PS-A-001 ARCHITECTURAL DETAILS & SCHEDULES
- PS-A-002 STANDBY POWER BUILDINGS ELEVATIONS
- PS-A-003 STANDBY POWER BUILDINGS SECTIONS

## LANDSCAPING

- PS-L-001 IRRIGATION DETAILS
- PS-L-002 IRRIGATION DETAILS
- PS-L-003 PLANTING DETAILS
- PS-L-101 EAST YSABEL PUMP STATION IRRIGATION PLAN
- PS-L-102 EAST PASO PUMP STATION IRRIGATION PLAN
- PS-L-103 WEST PASO PUMP STATION IRRIGATION PLAN
- PS-L-104 EAST YSABEL PUMP STATION PLANTING PLAN
- PS-L-105 EAST PASO PUMP STATION PLANTING PLAN
- PS-L-106 WEST PASO PUMP STATION PLANTING PLAN
- PS-L-201 LUPINE PUMP STATION IRRIGATION PLAN
- PS-L-202 SOLANO PUMP STATION IRRIGATION PLAN
- PS-L-203 LUPINE PUMP STATION PLANTING PLAN
- PS-L-204 SOLANO PUMP STATION PLANTING PLAN
- PS-L-205 MID-TOWN PUMP STATION PLANTING PLAN
- PS-L-206 MID-TOWN GENERATOR IRRIGATION PLAN
- PS-L-207 MID-TOWN GENERATOR IRRIGATION DETAILS
- PS-L-208 MID-TOWN GENERATOR PLANTING PLAN
- PS-L-301 SUNNY OAKS PUMP STATION IRRIGATION PLAN
- PS-L-302 SUNNY OAKS PUMP STATION PLANTING PLAN

## ELECTRICAL

### GENERAL ELECTRICAL

- PS-E-001 ELECTRICAL STANDARD ELECTRICAL SYMBOLS - 1
- PS-E-002 ELECTRICAL STANDARD ELECTRICAL SYMBOLS - 2 & LIGHTING FIXTURE SCHEDULE
- PS-E-003 ELECTRICAL STANDARD ELECTRICAL ABBREVIATIONS AND GENERAL NOTES
- PS-E-004 ELECTRICAL STANDARD ELECTRICAL DETAILS - 1
- PS-E-005 ELECTRICAL STANDARD ELECTRICAL DETAILS - 2
- PS-E-006 ELECTRICAL STANDARD ELECTRICAL DETAIL AND PANEL SCHEDULES
- PS-E-007 ELECTRICAL POCKET PUMP STATIONS - TYPICAL SINGLE LINE DIAGRAM
- PS-E-008 ELECTRICAL POCKET PUMP STATIONS - TYPICAL CONTROL DIAGRAM
- PS-E-009 ELECTRICAL STANDBY POWER BUILDING - TYPICAL 120VAC POWER, LIGHTING AND FIRE DETECTION PLAN
- PS-E-010 ELECTRICAL SUBMERSIBLE PS AND STANDBY POWER - TYPICAL CONTROL DIAGRAM - 1
- PS-E-011 ELECTRICAL SUBMERSIBLE PS AND STANDBY POWER - TYPICAL CONTROL DIAGRAM - 2

### ELECTRICAL - AREA A

- PS-E-101 ELECTRICAL GENERAL AREA PLAN - AREA A
- PS-E-102 ELECTRICAL POCKET PUMP STATIONS 04A, 07A, 08A, 09A ELECTRICAL SITE PLAN
- PS-E-103 ELECTRICAL POCKET PUMP STATIONS 10A, 11A, 12A, 13A ELECTRICAL SITE PLAN
- PS-E-104 ELECTRICAL BAYWOOD SUBMERSIBLE PUMP STATION SITE - POWER, LIGHTING AND GROUNDING PLAN
- PS-E-105 ELECTRICAL WEST PASO SUBMERSIBLE PUMP STATION SITE - POWER, LIGHTING AND GROUNDING PLAN
- PS-E-106 ELECTRICAL POWER, LIGHTING AND GROUNDING PLAN - WEST PASO / BAYWOOD STANDBY POWER FACILITY
- PS-E-107 ELECTRICAL WEST PASO / BAYWOOD PS AND STANDBY POWER - SINGLE LINE
- PS-E-108 ELECTRICAL EAST PASO SUBMERSIBLE PUMP STATION SITE - ELECTRICAL PLAN
- PS-E-109 ELECTRICAL EAST PASO PS AND STANDBY POWER - SINGLE LINE
- PS-E-110 ELECTRICAL EAST YSABEL SUBMERSIBLE PUMP STATION SITE - ELECTRICAL PLAN
- PS-E-111 ELECTRICAL EAST YSABEL PS AND STANDBY POWER - SINGLE LINE
- PS-E-112 ELECTRICAL WEST PASO/BAYWOOD STANDBY POWER BUILDING POWER, INSTRUMENTATION, & GROUNDING PLAN
- PS-E-113 ELECTRICAL EAST PASO STANDBY POWER BUILDING POWER, INSTRUMENTATION, & GROUNDING PLAN
- PS-E-114 ELECTRICAL EAST YSABEL STANDBY POWER BUILDING POWER, INSTRUMENTATION, & GROUNDING PLAN

### ELECTRICAL - AREA B

- PS-E-201 ELECTRICAL GENERAL AREA PLAN - AREA B
- PS-E-202 ELECTRICAL LUPINE SUBMERSIBLE PUMP STATION & STANDBY POWER BLDG SITE POWER PLAN
- PS-E-203 ELECTRICAL LUPINE PS AND STANDBY POWER - SINGLE LINE
- PS-E-204 ELECTRICAL SOLANO SUBMERSIBLE PUMP STATION SITE - POWER PLAN
- PS-E-205 ELECTRICAL SOLANO PS AND STANDBY POWER - SINGLE LINE
- PS-E-206 ELECTRICAL MID-TOWN PUMP STATION AND PPS 5A SITE - ELECTRICAL POWER PLAN
- PS-E-207 ELECTRICAL MID-TOWN PS AND STANDBY POWER - SINGLE LINE
- PS-E-208 ELECTRICAL LUPINE STANDBY POWER BUILDING POWER, INSTRUMENTATION, & GROUNDING PLAN
- PS-E-209 ELECTRICAL SOLANO STANDBY POWER BUILDING POWER, INSTRUMENTATION, & GROUNDING PLAN
- PS-E-210 ELECTRICAL MID-TOWN STANDBY POWER BUILDING POWER, INSTRUMENTATION, & GROUNDING PLAN

### ELECTRICAL - AREA C

- PS-E-301 ELECTRICAL GENERAL AREA PLAN - AREA C - SHEET 1 OF 2
- PS-E-301A ELECTRICAL GENERAL AREA PLAN - AREA C - SHEET 2 OF 2
- PS-E-302 ELECTRICAL SUNNY OAKS SUBMERSIBLE PUMP STATION SITE - ELECTRICAL POWER PLAN
- PS-E-303 ELECTRICAL SUNNY OAKS PS AND STANDBY POWER - SINGLE LINE
- PS-E-304 ELECTRICAL BRODERSON & BAYRIDGE ESTATES EFFLUENT DISPOSAL VAULTS SITE PLAN
- PS-E-305 ELECTRICAL EFFLUENT DISPOSAL VAULTS - TYPICAL SINGLE LINE
- PS-E-306 ELECTRICAL SUNNY OAKS STANDBY POWER BUILDING POWER, INSTRUMENTATION, & GROUNDING PLAN

### ELECTRICAL - AREA D

- PS-E-401 ELECTRICAL GENERAL AREA PLAN - AREA D
- PS-E-402 ELECTRICAL POCKET PUMP STATIONS 09B, 09C, 15B ELECTRICAL SITE PLAN
- PS-E-403 ELECTRICAL MOUNTAIN VIEW SUBMERSIBLE PUMP STATION SITE - ELECTRICAL PLAN
- PS-E-404 ELECTRICAL MOUNTAIN VIEW PS AND STANDBY POWER - SINGLE LINE
- PS-E-405 ELECTRICAL MOUNTAIN VIEW STANDBY POWER BUILDING POWER, INSTRUMENTATION, & GROUNDING PLAN

## INSTRUMENTATION

### GENERAL INSTRUMENTATION

- PS-I-001 INSTRUMENTATION SYMBOLS AND ABBREVIATIONS - 1
- PS-I-002 INSTRUMENTATION SYMBOLS AND ABBREVIATIONS - 2
- PS-I-003 INSTRUMENTATION SCADA SYSTEM ARCHITECTURE
- PS-I-004 INSTRUMENTATION FIBER OPTIC CONDUIT INTERCONNECT DIAGRAM
- PS-I-005 INSTRUMENTATION DETAILS

### INSTRUMENTATION - AREA A

- PS-I-101 INSTRUMENTATION AREA A PUMP STATIONS P&ID 1
- PS-I-102 INSTRUMENTATION AREA A PUMP STATIONS P&ID 2

### INSTRUMENTATION - AREA B

- PS-I-201 INSTRUMENTATION AREA B PUMP STATIONS P&ID - 1
- PS-I-202 INSTRUMENTATION AREA B PUMP STATIONS P&ID - 2

### INSTRUMENTATION - AREA C

- PS-I-301 INSTRUMENTATION AREA C PUMP STATION P&ID
- PS-I-302 INSTRUMENTATION AREA C BRODERSON EFFLUENT DISPOSAL SITE P&ID
- PS-I-303 INSTRUMENTATION AREA C BAYRIDGE ESTATES EFFLUENT DISPOSAL SITE P&ID

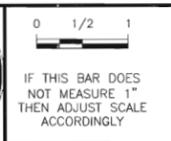
### INSTRUMENTATION - AREA D

- PS-I-401 INSTRUMENTATION AREA D PUMP STATIONS P&ID

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: \_\_\_\_\_ MDM  
 DRAWN BY: \_\_\_\_\_ JAW  
 CHECKED BY: \_\_\_\_\_ BJC  
 DATE: \_\_\_\_\_ APRIL 2012

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 UNDERGROUND SERVICE ALERT OF NORTHERN CALIFORNIA

LOS OSOS WASTEWATER COLLECTION SYSTEM  
**GENERAL LIST OF PS DRAWINGS**  
 PROJECT NO. 42502-83120  
 FILE NAME: PS-G-003  
 SHEET NO. PS-G-003

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A B C D E F G H I J K L

**A. GENERAL NOTES**

- ALL STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE CIVIL, MECHANICAL, ARCHITECTURAL, ELECTRICAL, INSTRUMENTATION, SHOP DRAWINGS, AND THE PROJECT SPECIFICATIONS.
- ALL CONSTRUCTION SHALL CONFORM TO THE 2010 EDITION OF THE CALIFORNIA BUILDING CODE (CBC).
- SEE ALL OTHER PROJECT DOCUMENTS FOR REGLETS, PIPE SLEEVES, CONDUITS OR OTHER ITEMS TO BE EMBEDDED OR PASSED THROUGH CONCRETE STRUCTURES.
- PENETRATIONS THROUGH WALLS OR SLABS MAY NOT BE SHOWN ON STRUCTURAL DRAWINGS - REFER TO ASSOCIATED DOCUMENTS OR DRAWINGS FOR LOCATIONS.
- THE MINIMUM CLEAR DISTANCE BETWEEN PIPE OR CONDUIT PENETRATIONS SHALL BE 3 TIMES THE DIAMETER OF THE PENETRATION OR 8", WHICHEVER IS SMALLER. LOCATE CONDUIT IN MIDDLE THIRD OF SLABS.
- NO STRUCTURAL MEMBERS SHALL BE CUT FOR PIPES, DUCTS, ETC., UNLESS SPECIFICALLY DETAILED OR APPROVED IN WRITING BY THE ENGINEER.
- WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED SIZES.
- USE PERTINENT STANDARD DETAILS SHOWN, EVEN THOUGH THEY MAY NOT BE CALLED OUT AT LOCATIONS WHERE THEY APPLY.
- UNLESS MODIFIED BY THIS NOTE, SPECIAL INSPECTION BY ICC CERTIFIED INSPECTORS SHALL BE CONDUCTED IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH IN SECTION 1701 OF THE CALIFORNIA BUILDING CODE, (CBC). THE FOLLOWING ITEMS, AS A MINIMUM, SHALL RECEIVE SPECIAL INSPECTION:
  - REINFORCING STEEL: REINFORCING STEEL SHALL BE INSPECTED PRIOR TO CLOSING THE FORMS OR DELIVERY OF CONCRETE TO JOB SITE.
  - BOLTS INSTALLED IN CONCRETE: BOLTS SHALL BE INSPECTED PRIOR TO AND DURING CONCRETE PLACEMENT.
  - CONCRETE: PREPARATION OF COMPRESSION TEST SPECIMENS AND THE PLACEMENT OF REINFORCED CONCRETE SHALL BE INSPECTED.
  - BOLTS INSTALLED IN MASONRY: BOLTS SHALL BE INSPECTED PRIOR TO AND DURING GROUT PLACEMENT.
  - STRUCTURAL MASONRY: LEVEL 2 SPECIAL INSPECTION SHALL BE PROVIDED FOR PREPARATION OR TAKING OF ANY REQUIRED PRISMS OR TEST SPECIMENS, AT THE START OF LAYING UNITS, AFTER THE PLACEMENT OF REINFORCING STEEL, GROUT SPACE PRIOR TO EACH GROUTING OPERATION, AND PRIOR TO EACH GROUTING OPERATION, AND DURING ALL GROUTING OPERATIONS.
  - ADHESIVE ANCHORS OR DOWELS INSTALLED IN CONCRETE: AT A MINIMUM, THE INSPECTOR SHALL PERIODICALLY VERIFY ANCHOR TYPE, ANCHOR DIMENSION, CONCRETE TYPE, CONCRETE COMPRESSIVE STRENGTH, HOLE DIMENSIONS, HOLE CLEANING PROCEDURES, ANCHOR SPACING, EDGE DISTANCES, CONCRETE THICKNESS ANCHOR EMBEDMENT, TIGHTENING TORQUE, AND ADHESIVE EXPIRATION DATE; THE INSPECTOR SHALL VERIFY ANCHOR INSTALLATION HAS BEEN PERFORMED IN COMPLIANCE WITH THE MANUFACTURER'S PUBLISHED INSTRUCTIONS AND THE APPROPRIATE ICC EVALUATION SERVICE REPORT.
  - EXPANSION ANCHORS INSTALLED IN CONCRETE: THE INSPECTOR SHALL PERIODICALLY VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, CONCRETE TYPE, CONCRETE COMPRESSIVE STRENGTH, HOLE DIMENSIONS, ANCHOR SPACING, EDGE DISTANCES, CONCRETE MEMBER THICKNESS, ANCHOR EMBEDMENT, AND TIGHTENING TORQUE. THE INSPECTOR SHALL VERIFY ANCHOR INSTALLATION HAS BEEN PERFORMED IN COMPLIANCE WITH THE MANUFACTURER'S PUBLISHED INSTRUCTIONS AND THE APPROPRIATE ICC EVALUATION SERVICE REPORT.
  - WELDING: CONTINUOUS VISUAL INSPECTION SHALL BE PROVIDED FOR ALL STRUCTURAL WELDING DONE IN THE FIELD.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFELY SUPPORTING THE STRUCTURE DURING CONSTRUCTION. STRUCTURES HAVE BEEN DESIGNED FOR OPERATIONAL LOADS ON THE COMPLETED STRUCTURES. DURING CONSTRUCTION, STRUCTURES SHALL BE SUPPORTED BY BRACING OR SHORING DESIGNED BY THE CONTRACTOR'S ENGINEER WHEREVER EXCESSIVE CONSTRUCTION LOADS MAY OCCUR.

**B. DESIGN LOADS**

- GRAVITY: ROOF LIVE LOAD 20psf (UNREDUCIBLE)  
FLOOR LIVE LOAD 250psf
- LATERAL: LATERAL LOADS SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 16 OF THE 2010 CBC, UNLESS OTHERWISE NOTED. THE FOLLOWING DESIGN PARAMETERS SHALL BE USED.  
  
WIND (2010 CBC): 85 MPH, EXPOSURE D,  $I_w = 1.15$  (UNO)

**B. DESIGN LOADS CONT**

SEISMIC (2010 CBC): SEE TABLE BELOW

FACILITIES	S <sub>DS</sub> *	S <sub>D1</sub> *
LUPINE	0.965	0.876
WEST PASO/BAYWOOD	0.937	0.850
EAST YSABEL	0.917	0.832
EAST PASO	0.934	0.846
MOUNTAIN VIEW	0.960	0.868
SUNNY OAKS	0.982	0.886
MIDTOWN	0.977	0.885
SOLANO	0.984	0.894
POCKET PUMP STATIONS	0.984	0.894

\* VALUE IS BASED ON THE HIGHER OF SITE CLASS D OR F (SITE CLASS F IS EQUIVALENT TO SITE CLASS E ASSUMING NO SITE MITIGATION IS PERFORMED TO ADDRESS LIQUEFACTION)

R = 5.5 FOR SPECIAL REINFORCED MASONRY SHEAR WALL

IMPORTANCE FACTOR:  $I = 1.5$ ,  $I_p = 1.5$

**C. GEOTECHNICAL INFORMATION**

ALLOWABLE PRESSURE	DEAD	TOTAL INCLUDING SEISMIC & WIND
BEARING* (psf)	2000	3000
PASSIVE (pcf)	350	466

\*BEARING PRESSURE FOR APPROXIMATELY 1-INCH SETTLEMENT

COEFFICIENT OF FRICTION: 0.4

ADDITIONAL GEOTECHNICAL DESIGN PARAMETERS ARE IN GEOTECHNICAL REPORT TITLED "GEOTECHNICAL REPORT LOS OSOS WASTEWATER PROJECT LOS OSOS COMMUNITY SERVICES DISTRICT SAN LUIS OBISPO COUNTY, CALIFORNIA" PREPARED BY FUGRO WEST, INC. DATED MARCH 9, 2004 AND "ADDENDUM TO GEOTECHNICAL REPORT FOR LOS OSOS WASTEWATER PROJECT" PREPARED BY FUGRO CONSULTANTS, INC. DATED OCTOBER 24, 2011.

**D. CAST-IN-PLACE CONCRETE**

- REINFORCED CONCRETE SHALL CONFORM TO ACI 318-08 AND 350-06.
- MINIMUM CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS, UNLESS OTHERWISE NOTED ON THE DRAWINGS:
 

STRUCTURAL CONCRETE (CLASS E):	$f'_c = 5000$ psi
SIDEWALKS, PAVEMENT (CLASS D):	$f'_c = 4000$ psi
CONCRETE FILL, ENCASEMENT (CLASS B):	$f'_c = 3000$ psi
- REINFORCING STEEL SHALL CONFORM TO THE LATEST EDITION OF ASTM SPECIFICATION A615 GRADE 60 AS SPECIFIED IN SPECIFICATION SECTION 03200.
- REINFORCING STEEL FABRICATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF CRSI MANUAL OF STANDARD PRACTICE.
- REINFORCING SHALL HAVE THE FOLLOWING CLEAR CONCRETE COVER, UNLESS OTHERWISE NOTED ON THE DRAWINGS.

CONDITION	COVER
UNFORMED SURFACES IN CONTACT WITH EARTH	3"
FORMED SURFACES EXPOSED TO EARTH, WATER, & WEATHER	2"
BOTTOM SURFACES FOR SLAB OVER WATER	2"
CONCRETE SURFACES FOR DRY CONDITIONS:	
WALLS AND SLAB	1 1/2"
BEAMS:	
PRIMARY REINFORCEMENT	2"
STIRRUPS AND TIES	1 1/2"

- SPLICED BARS SHALL HAVE A MINIMUM LAP AS SPECIFIED IN LATEST EDITION OF THE ACI 315 DETAILING MANUAL AND ACI 318 CHAPTER 21 UNLESS OTHERWISE NOTED IN CONTRACT DOCUMENTS. ALL LAP SPICE LENGTHS SHALL BE IN ACCORDANCE WITH THE STANDARD DETAILS, UNO.
- CONSTRUCTION JOINTS SHALL NOT BE PLACED AT LOCATIONS OTHER THAN THOSE SHOWN ON THE DRAWINGS WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.
- ALL EXPOSED CORNERS OF CONCRETE SHALL HAVE 3/4" CHAMFER, UNLESS NOTED OTHERWISE.
- WRITTEN SPACING AND LOCATION OF REINFORCING SHALL TAKE PRECEDENCE OVER DEPICTED SPACING AND LOCATION.

**D. CAST-IN-PLACE CONCRETE CONT**

10. CAST-IN-PLACE DOWELS SHALL HAVE HOOK DEVELOPMENT LENGTH AS SHOWN ON DRAWINGS OR AS REQUIRED BY ACI 318.

**E. STRUCTURAL STEEL**

- STRUCTURAL STEEL WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992.
- OTHER STRUCTURAL STEEL SHAPES, PLATES AND BARS SHALL CONFORM TO ASTM A36.
- HOLLOW STRUCTURAL SECTIONS SHALL CONFORM TO ASTM A500 GRADE B.
- STRUCTURAL STEEL SHALL BE FABRICATED, ERECTED, AND CONNECTED IN COMPLIANCE WITH THE LATEST AISC SPECIFICATION FOR STRUCTURAL BUILDINGS.
- SHOP PAINTING AND FIELD PAINTING, IF REQUIRED, SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS.
- SEE SPECIFICATION SECTION 05500 FOR ADDITIONAL REQUIREMENTS.

**F. ANCHORS AND ADHESIVE DOWELS FOR CONCRETE AND MASONRY**

- CAST-IN ANCHORS SHALL BE HEADED BOLTS CONFORMING TO ASTM F1554 AND GALVANIZED IN ACCORDANCE WITH ASTM A153, UNO.
- POST-INSTALLED ANCHORS AND ADHESIVE DOWELS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND THE APPROPRIATE ICC EVALUATION SERVICE REPORTS. SEE SPEC SECTION 05500 FOR ADDITIONAL INFORMATION.
- THE CONTRACTOR SHALL LOCATE EXISTING CONCRETE AND CMU REINFORCEMENT USING NON-DESTRUCTIVE METHODS PRIOR TO DRILLING HOLES FOR POST-INSTALLED ANCHORS OR DOWELS. ADJUST SPACING OF ANCHORS TO MISS EXISTING REINFORCING. THE TOTAL NUMBER OF ANCHORS PROVIDED SHALL BE EQUAL TO WHAT IS SHOWN ON THE DRAWINGS OR EQUIPMENT ANCHORAGE SHOP DRAWINGS.
- POST-INSTALLED ANCHORS SHALL NOT BE USED FOR VIBRATORY LOADS, UNO.

**G. CONCRETE JOINTS**

- PROVIDE SEALANT IN JOINTS AS SHOWN ON THE DRAWINGS.
- MATERIAL FOR JOINT SEALANTS SHALL BE AS NOTED ON THE DRAWINGS AND IN ACCORDANCE WITH THE SPECIFICATIONS.
- INTENTIONALLY ROUGHEN THE SURFACES OF CONSTRUCTION JOINTS AND WHERE NEW CONCRETE CONTACTS EXISTING CONCRETE TO A CONCRETE SURFACE PROFILE (CSP) 9 PER ICRI GUIDELINE 03732 WITH 1/4" MINIMUM AMPLITUDE. THIS ROUGHENED SURFACE MAY BE ACCOMPLISHED BY RAKING THE PLASTIC CONCRETE OR BY BUSHHAMMERING OR CHISELING HARDENED CONCRETE SURFACES. THOROUGHLY CLEAN JOINT SURFACES OF LOOSE OR WEAKENED MATERIALS BY WATERBLASTING OR SANDBLASTING. SATURATE SURFACE WITH WATER 12 HOURS BEFORE AND AGAIN IMMEDIATELY PRIOR TO CONCRETE PLACEMENT.

**H. MASONRY**

- MASONRY SHALL BE SOLID GROUTED AND LAID IN RUNNING BOND.
- MINIMUM SPECIFIED COMPRESSIVE PRISM STRENGTH OF ASSEMBLED CONCRETE MASONRY,  $f'_m = 1500$  psi.
- HOLLOW, LOAD-BEARING CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90, MEDIUM WEIGHT OPEN END UNITS.
- MORTAR FOR MASONRY SHALL CONFORM TO ASTM C270, TYPE S, UNLESS OTHERWISE NOTED. THE MINIMUM COMPRESSIVE STRENGTH OF THE MORTAR SHALL BE 1,800 psi AT 28 DAYS.
- GROUT FOR MASONRY SHALL BE NORMAL WEIGHT CONFORMING TO ASTM C476, UNLESS OTHERWISE NOTED. THE MINIMUM COMPRESSIVE STRENGTH OF THE GROUT SHALL BE 2500 psi AT 28 DAYS.
- REINFORCING STEEL SHALL BE DEFORMED BILLET STEEL CONFORMING TO THE LATEST EDITION OF ASTM A615, GRADE 60.
- DIMENSIONS SHOWN ON STRUCTURAL DRAWINGS FOR MASONRY ELEMENTS ARE NOMINAL MASONRY DIMENSIONS.
- EXCEPT AT CONTROL JOINTS, OPEN-END UNITS SHALL BE PLACED SUCH THAT NO TWO CLOSED CELLS ARE ADJACENT TO EACH OTHER.

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: DTP  
 DRAWN BY: ASJ/TVN  
 CHECKED BY: LGS  
 DATE: APRIL 2012

**CDM Smith**  
 2295 Gateway Oaks Drive, Suite 240  
 Sacramento, CA 95833  
 Tel: (916) 567-9900



0 1/2 1  
 IF THIS BAR DOES NOT MEASURE 1" THEN ADJUST SCALE ACCORDINGLY



**DIGALERT**  
 DIAL TOLL FREE 1-800-642-2444  
 AT LEAST TWO DAYS BEFORE YOU DIG  
 UNDERGROUND SERVICE ALERT OF NORTHERN CALIFORNIA

LOS OSOS WASTEWATER COLLECTION SYSTEM  
**STRUCTURAL GENERAL NOTES 1**

PROJECT NO.42502-83120  
 FILE NAME: PS-S-001  
 SHEET NO.  
**PS-S-001**

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A B C D E F G H I J K L

**I. CARPENTRY**

- WORK SHALL INCLUDE ALL MATERIALS AND LABOR TO FABRICATE AND ERECT ALL WOOD CONSTRUCTION AS SHOWN ON THE DRAWINGS.
- ALL LUMBER SHALL BE NEW, UNIFORMLY SIZED, S4S DOUGLAS FIR (DF) LARCH GRADE MARKED NO. 1, UNLESS NOTED OTHERWISE. MOISTURE CONTENT OF LUMBER AT TIME OF PLACING SHALL NOT EXCEED 19 PERCENT. ALL LUMBER SHALL BE GRADED IN ACCORDANCE WITH THE RULES LISTED FOR THE SPECIES IN THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION BY THE NATIONAL FOREST & PAPER ASSOCIATION AND AMERICAN WOOD COUNCIL (INCLUDING SUPPLEMENTS).
- ALL MEMBERS SHALL BE END SEALED.
- SILLS OR PLATES RESTING ON CONCRETE OR MASONRY, OR IN CONTACT WITH EARTH OR RESTING ON FOUNDATIONS, SHALL BE PRESSURE-TREATED DOUGLAS FIR-LARCH NO. 1 OR BETTER. NEWLY EXPOSED SURFACES RESULTING FROM FIELD CUTTING, BORING, OR HANDLING SHALL BE FIELD TREATED IN ACCORDANCE WITH AWPA M4. ALL NAILS, BOLTS, AND WASHERS IN CONTACT WITH PRESSURE-TREATED WOOD SHALL BE GALVANIZED PER ASTM A153.
- ALL NAILS SHALL BE COMMON WIRE NAILS UNLESS NOTED OTHERWISE. EDGE OR END DISTANCES IN THE DIRECTION OF STRESS SHALL NOT BE LESS THAN ONE HALF OF THE REQUIRED PENETRATION (12 TIMES THE NAIL DIAMETER). THE SPACING CENTER TO CENTER OF NAILS IN THE DIRECTION OF STRESS SHALL NOT BE LESS THAN THE REQUIRED PENETRATION. HOLES FOR NAILS, WHERE NECESSARY TO PREVENT SPLITTING, SHALL BE BORED TO A DIAMETER SMALLER THAN THAT OF THE NAIL. NAILS SHALL BE DRIVEN PERPENDICULAR WHERE POSSIBLE INSTEAD OF TOE NAILED. NAILED CONNECTIONS SHALL CONFORM TO THE MINIMUM NAILING SCHEDULE OF THE CBC (TABLE 2304.9.1), EXCEPT AS OTHERWISE NOTED.
- BOLTS SHALL CONFORM TO ASTM A307, UNLESS NOTED OTHERWISE. BOLTS SHALL BE LOCATED NOT LESS THAN 7 BOLT DIAMETERS FROM THE END AND 4 DIAMETERS FROM THE EDGE OF A MEMBER. BOLT HOLES SHALL BE 1/32 TO 1/16 INCH LARGER THAN THE BOLT DIAMETER. ALL NUTS SHALL BE TIGHTENED WHEN INSTALLED AND RE-TIGHTENED AT THE COMPLETION OF WORK OR BEFORE CLOSING IN. THREAD PROJECTION SHALL BE 1/16 INCH MINIMUM BEYOND THE NUT. USE MALLEABLE IRON WASHERS AGAINST WOOD.
- ANCHOR BOLTS SHALL BE 3/4 INCH DIAMETER ASTM A307 HEADED ANCHOR BOLTS WITH A MINIMUM OF 12 INCHES EMBEDMENT INTO CMU, UNLESS NOTED OTHERWISE. ANCHOR BOLTS SHALL BE LOCATED PER THE DRAWINGS. ANCHOR BOLT HOLES IN SILL PLATES OR NAILERS SHALL BE 1/32 TO 1/16 INCH LARGER THAN THE ANCHOR BOLT DIAMETER. ANCHOR BOLTS SHALL BE LOCATED A MINIMUM OF 7 BOLT DIAMETERS FROM THE END OF THE SILL PLATE OR NAILER.
- ROUGH FRAMING HARDWARE SHALL BE SIMPSON OR EQUAL. EQUAL PRODUCTS MUST BE SUBMITTED WITH ICC EVALUATION SERVICE REPORTS TO THE ENGINEER FOR WRITTEN APPROVAL PRIOR TO THEIR USE ON THE PROJECT. INSTALL FRAMING HARDWARE INCLUDING NAILS PER MANUFACTURER'S ICC EVALUATION SERVICE REPORT. SIZE AND NUMBER OF NAILS SHALL BE AS SPECIFIED BY THE MANUFACTURER.
- PROVIDE BRIDGING AND BLOCKING THAT IS NEATLY CUT, FITTED TIGHT, AND SECURELY NAILED. INSTALL 3X BLOCKING AT ALL INTERSECTIONS OF FINISHED SURFACES TO PROVIDE ADEQUATE BEARING FOR FINISH MATERIALS. BLOCK AS REQUIRED TO SUPPORT FIXTURES, HARDWARE, AND OTHER SUSPENDED EQUIPMENT.
- LUMBER SHALL BE PILED OFF THE GROUND IN A MANNER WHICH ALLOWS VENTILATION AND DRAINAGE. IT SHALL PREVENT TWISTING, AND AFFORD PROTECTION FROM TERMITES AND DECAY, AND SHALL BE ADEQUATELY PROTECTED FROM THE WEATHER.
- MEMBERS SHALL NOT BE NOTCHED, DRILLED, TAPERED, DAPPED, OR CUT IN ANY WAY EXCEPT AS SHOWN IN THE DRAWINGS. ALL NOTCHES, DAPS, AND TAPERS SHOWN ON THE DRAWINGS SHALL BE FACTORY MADE AND NOT CUT IN THE FIELD.
- ALL REQUIRED FIELD BRACING SHALL BE LEFT IN PLACE UNTIL ROOF SHEATHING IS NAILED OR OTHER PERMANENT PORTIONS OF THE STRUCTURE ARE INSTALLED SO AS TO STABILIZE THE BEAMS AND TRUSSES AS REQUIRED FOR SAFETY.
- ALL EXPOSED STEEL HARDWARE, FASTENERS, AND CONNECTORS SHALL BE GALVANIZED PER ASTM A153.

**J. PLYWOOD SHEATHING**

- PLYWOOD SHEATHING SHALL BE DOUGLAS FIR WITH PANEL GRADE, THICKNESS, AND SPAN RATING PER ROOF PLAN, CONFORMING TO THE REQUIREMENTS OF APA STANDARDS PS-1, PS-2 AND PRP-108.
- ALL UNSUPPORTED PANEL JOINTS SHALL BE BLOCKED SOLID WITH 3x4 FLAT BLOCKING, UNLESS NOTED OTHERWISE. THE MINIMUM PLYWOOD SHEATHING DIMENSION SHALL BE 2'-0".
- PLYWOOD SHEATHING SHALL BE IN GOOD CONDITION WHEN INSTALLED, FREE OF DELAMINATIONS, SPLITTING, OR EXCESSIVE WARPING. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT THE DECK FROM WEATHER UNTIL THE ROOFING CONTRACTOR BEGINS WORK. DEFECTIVE PLYWOOD SHEETS AND SHEETS DAMAGED BY WEATHER WITHIN THIS PERIOD SHALL BE REPLACED UPON WRITTEN NOTIFICATION FROM THE ENGINEER.

**J. PLYWOOD SHEATHING CONT**

- PLYWOOD SHEATHING SHALL BE NAILED PER ROOF PLAN REQUIREMENTS WITH NAIL LENGTHS CAPABLE OF PROVIDING REQUIRED PENETRATION INTO FRAMING MEMBERS PER CBC TABLE 2306.2.1.(1) PENETRATION IS MEASURED INTO THE PIECE RECEIVING THE NAIL POINT. WHERE THE NAIL PENETRATION WILL BE LESS THAN SPECIFIED, INCREASE NAIL LENGTH (SIZE) TO OBTAIN THE PENETRATION REQUIRED FOR THE NAIL SPECIFIED.
- THE USE OF MACHINE NAILING SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER FOLLOWING THE CONTRACTOR'S SATISFACTORY JOB SITE DEMONSTRATION AND REVIEW BY THE ENGINEER. ALL EQUIPMENT SHALL BE IN EXCELLENT OPERATING CONDITION AND ADJUSTMENT SO AS TO RESULT IN NAILS PROPERLY DRIVEN, WITH HEADS FLUSH WITH THE SURFACE OF THE WOOD AND NOT UNDERDRIVEN OR OVERDRIVEN. MINIMUM PANEL EDGE DISTANCES SHALL BE MAINTAINED DURING ALL MACHINE NAILING OPERATIONS.

**K. PLATE CONNECTED WOOD TRUSSES**

- DESIGN WOOD ROOF TRUSSES PER THE DESIGN CRITERIA IN THESE CONTRACT DOCUMENTS AND PER THE CBC.
- TOP AND BOTTOM CHORDS OF WOOD TRUSSES SHALL BE DOUBLE 2x6 DOUGLAS FIR-LARCH NO. 1 MINIMUM. WEB MEMBERS SHALL BE 2x4 DOUGLAS FIR-LARCH NO. 1 MINIMUM.
- SEE DRAWING PS-S-013 FOR WOOD TRUSS DESIGN CRITERIA, ROOF TOTAL DEFLECTION SHALL NOT EXCEED L/180.
- COMBINED DEAD AND SEISMIC LOAD CASES SHALL INCLUDE A 1,500 POUND WORKING STRESS LEVEL COMPRESSIVE OR TENSILE AXIAL LOAD APPLIED TO THE BOTTOM CHORD OF THE TRUSS TO ACCOMMODATE WALL TO ROOF TIE ANCHORAGE REQUIREMENTS.
- WOOD TRUSS SHOP DRAWINGS AND CALCULATIONS PREPARED AND SEALED BY A CALIFORNIA CIVIL OR STRUCTURAL ENGINEER SHALL BE SUBMITTED FOR REVIEW. THE CALCULATIONS SHALL, AT A MINIMUM, INDICATE THE MAXIMUM VERTICAL REACTION AT SUPPORTS, SHEAR, MOMENT, AND DEFLECTION IN COMPARISON TO ALLOWABLE VALUES OF EACH TRUSS MEMBER. OVERALL TRUSS DEFLECTION SHALL ALSO BE INCLUDED IN THE SUBMITTED CALCULATIONS.
- PROVIDE BLOCKING, BRACING, AND BRIDGING AS REQUIRED BY THE MANUFACTURER, THE CBC, CALCULATIONS, AND DRAWINGS.
- OBTAIN WRITTEN CONSENT FROM THE ENGINEER TO CHANGE THE TRUSS TYPE, WIDTH, CHORD DEPTH, TRUSS SHAPE, OR SPACING.

**L. DEFERRED SUBMITTALS**

- THE FOLLOWING PORTIONS OF THE PROJECT ARE DEFERRED SUBMITTAL ITEMS & HAVE NOT BEEN DESIGNED BY THE ENGINEER OF RECORD.
  - SUPPORT AND ANCHORAGE OF EQUIPMENT
  - WOOD ROOF TRUSSES
- DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE ENGINEER OF RECORD HAS REVIEWED THE SUBMITTAL DOCUMENTS AND INDICATED THAT THEY HAVE BEEN REVIEWED AND THAT THEY HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE STRUCTURE.

**M. ABBREVIATION NOTES**

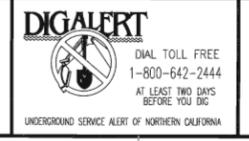
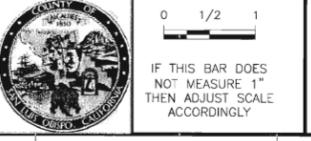
- ABBREVIATIONS AND DESIGNATIONS FOR STEEL MEMBERS MAY BE FOUND IN THE CURRENT MANUAL OF STEEL CONSTRUCTION BY AISC.
- WELDING SYMBOLS AND ABBREVIATIONS MAY BE FOUND IN AWS D1.1.
- ABBREVIATIONS LISTED ARE FOR USE WITH STRUCTURAL DRAWINGS ONLY. SOME ABBREVIATIONS LISTED MAY NOT BE USED ON THE PLANS.

**STRUCTURAL ABBREVIATIONS**

Ø	DIAMETER	LG	LONG
AB	ANCHOR BOLT	LLH	LONG LEG HORIZONTAL
ADDL	ADDITIONAL	LLV	LONG LEG VERTICAL
AL	ALUMINUM	LNTL	LINTEL
ALT	ALTERNATE(ING)	LONG.	LONGITUDINAL
APPROX	APPROXIMATE(LY)	LP	LOW POINT
ARND	AROUND	LT	LEFT
BGS	BELOW GROUND SURFACE	MAS	MASONRY
BLDG	BUILDING	MATL	MATERIAL
BLK	BLOCK(ING)	MAX	MAXIMUM
BO	BOTTOM OF	MCJ	MASONRY CONTROL JOINT
BOT	BOTTOM	MFR	MANUFACTURER
BTWN	BETWEEN	MIN	MINIMUM
		MO	MASONRY OPENING
		MOL	MAXIMUM OPERATING LEVEL
		MTL	METAL
CHKD	CHECKERED	(N)	NEW
CIRC	CIRCUMFERENTIAL	NOM	NOMINAL
CJ	CONSTRUCTION JOINT	NSG	NON-SHRINK GROUT
CJP	COMPLETE JOINT PENETRATION	NTS	NOT TO SCALE
CL, C	CENTERLINE	O/E	OR EQUAL
CTJ	CONTROL JOINT	OC	ON CENTER
CLR	CLEAR	OD	OUTSIDE DIAMETER
CMU	CONCRETE MASONRY UNIT	O.F	OUTSIDE FACE
COL	COLUMN	OPNG(S)	OPENING(S)
CONC	CONCRETE	OPP	OPPOSITE
CONN	CONNECTION	OPP HD	OPPOSITE HAND
CONST	CONSTRUCTION	OPT	OPTION (AL)
CONT	CONTINUOUS, CONTINUE		
CTR	CENTER (ED)	PJF	PREMOLDED JOINT FILLER
D	DEEP, DEPTH	PL	PLATE
DEMO	DEMOLITION	PREFAB	PRE-FABRICATED
DET	DETAIL	PT	POINT
DIA	DIAMETER		
DIAG	DIAGONAL	R	RISER
DIM	DIMENSION	RAD	RADIUS
DL	DEAD LOAD	RD	ROOF DRAIN
DN	DOWN	REF	REFERENCE / REFER
DO.	DITTO	REINF	REINFORCE (D, ING)
DR	DRAIN	REQD	REQUIRED
DWG(S)	DRAWING(S)	REV	REVISION
DWL(S)	DOWEL(S)	RO	ROUGH OPENING
		RT	RIGHT
EA	EACH	SECT	SECTION
EB	EXPANSION BOLT	SHT	SHEET
ECC	ECCENTRIC	SIM	SIMILAR
EF	EACH FACE	SL	SLOPE
EL	ELEVATION	SP	SPACE (S, ED)
EMBED	EMBEDMENT	SPEC	SPECIFICATION, SPECIFIED
EQ	EQUAL (LY)	SQ	SQUARE
EQPT	EQUIPMENT	SST	STAINLESS STEEL
EQUIV	EQUIVALENT	SSW	SIDE SEAM WELD
ES	EACH SIDE	STD	STANDARD
ETC	ETCETERA	STL	STEEL
EW	EACH WAY	STRUC	STRUCTURE (S, URAL)
EXP	EXPANSION	SYM	SYMMETRICAL
EXST, (E)	EXISTING		
EXT	EXTERIOR	T	TREAD (S)
		T&B	TOP AND BOTTOM
f'c	CONCRETE COMPRESSIVE STRENGTH	TD	TRENCH DRAIN
f'm	MASONRY PRISM STRENGTH	THK	THICK (NESS)
FD	FLOOR DRAIN	T.O.	TOP OF
FDN	FOUNDATION	TOC	TOP OF CONCRETE
FIG	FIGURE	TOS	TOP OF STEEL
FIN	FINISH (ED)	T.O.W.	TOP OF WALL
FL	FLOOR	TRNSV	TRANSVERSE
FLEX	FLEXIBLE	TSW	TOP SEAM WELD
FTG	FOOTING	TYP	TYPICAL
		UNO	UNLESS NOTED OTHERWISE
GA	GAGE	VB	VAPOR BARRIER
GALV	GALVANIZED	VERT	VERTICAL
GALVS	GALVANIZED STEEL		
GR	GUARD RAIL	W	WIDE
GRTG	GRATING	W/	WITH
		W/O	WITHOUT
HDR	HEADER	WD	WIDTH / WOOD
H	HEIGHT	WP	WORKING POINT
HOR	HORIZONTAL	WPG	WATERPROOFING
HP	HIGH POINT	WS	WATERSTOP
HR	HANDRAIL	WT	WEIGHT
HSB	HIGH STRENGTH BOLTS	WWF	WELDED
		WIRE	FABRIC
ICC	INTERNATIONAL CODE COUNCIL		
ID	INSIDE DIAMETER		
I.F.	INSIDE FACE		
INT	INTERIOR		
INV	INVERT		
JT	JOINT		
JT FLR	JOINT FILLER		

DESIGNED BY:	DTP
DRAWN BY:	ASJ/TVN
CHECKED BY:	LGS
DATE:	APRIL 2012

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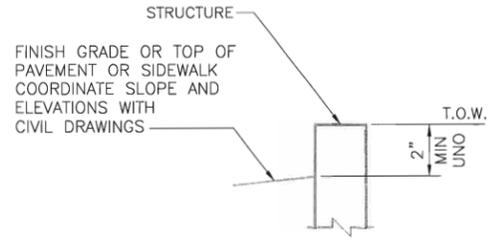
LOS OSOS WASTEWATER COLLECTION SYSTEM  
**STRUCTURAL GENERAL NOTES 2**

PROJECT NO. 42502-83120  
 FILE NAME: PS-S-002  
 SHEET NO.  
**PS-S-002**

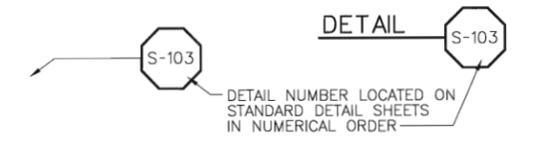
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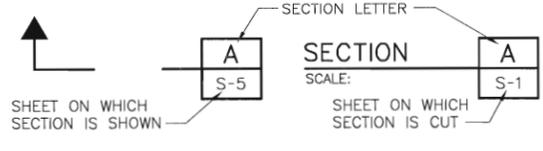
- CLASS 2 PERMEABLE MATERIAL
- STRUCTURAL FILL/BACKFILL
- UNDISTURBED EARTH OR SCARIFIED SOIL
- CONCRETE FILL/CONCRETE
- GROUT
- COVER PLATE



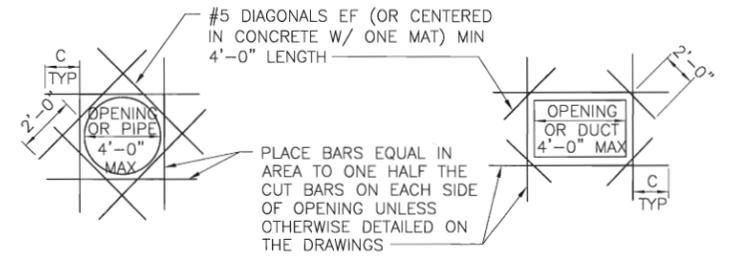
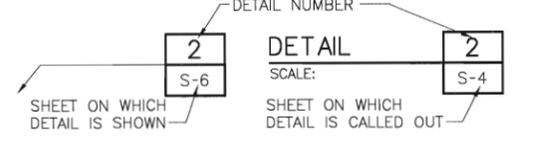
**STRUCTURAL STANDARD DETAIL CALLOUT**



**SECTION CALLOUT**



**DETAIL CALLOUT**

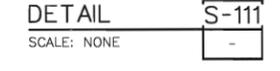


1. C = TENSION DEVELOPMENT LENGTH: PROVIDE STD HOOK IF FULL DEVELOPMENT LENGTH IS NOT POSSIBLE.
2. REINFORCING STEEL IS TO BE CARRIED ACROSS ALL CONSTRUCTION JOINTS.
3. DETAIL IS TYP FOR ALL OPENINGS GREATER THAN 10 INCHES IN CONCRETE WALLS AND SLABS UNLESS OTHERWISE DETAILED ON THE DRAWINGS.
4. EXTRA BARS ARE NOT REQUIRED AT AN OPENING EDGE PARALLEL TO AND WITHIN 6 INCHES OF A WALL OR BEAM, UNO.

**EXTRA REINFORCEMENT AT CONCRETE OPENINGS**



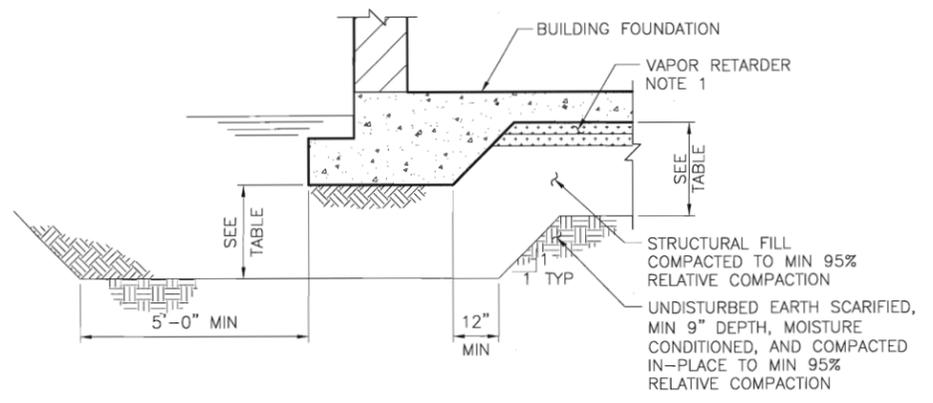
**LAP SPlice LENGTH IN CONCRETE**



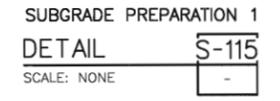
**NOTES:**

1. TOP BAR IS ANY HORIZ BAR WITH MORE THAN 12" CONCRETE CAST IN ONE LIFT BENEATH IT. HORIZONTAL BARS MAY OCCUR IN WALL OR A SLAB.
2. PROVIDE LAP LENGTHS PER ABOVE TABLE AT ALL SPLICES.
3. SPLICES IN HORIZONTAL BARS SHALL BE STAGGERED.
4. UNLESS OTHERWISE DETAILED ON THE DRAWINGS, SPLICES IN TWO CURTAINS SHALL NOT OCCUR IN THE SAME LOCATION.
5. BASED ON ACI 318-08 CHAP. 12 AND 21.
6. COMPRESSIVE STRENGTH OF CONCRETE, f'c, IS 5,000 psi.

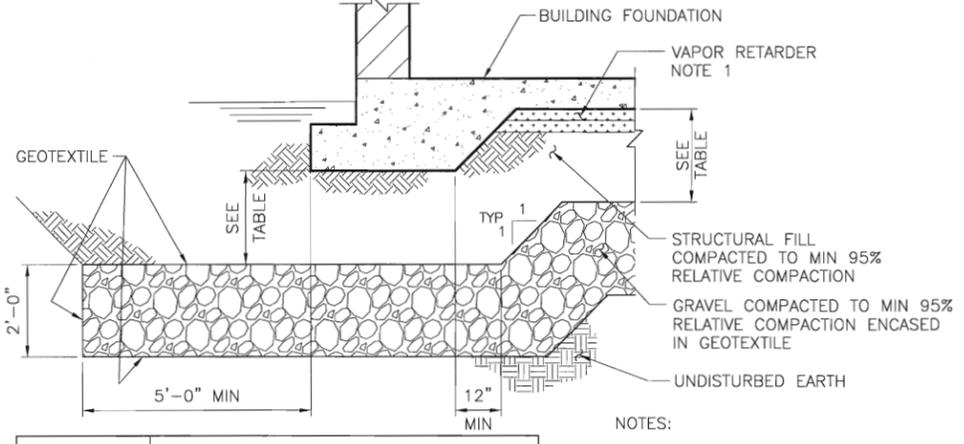
REINF	DEVELOPMENT LENGTH Id (INCHES)		LAP LENGTH (INCHES)	
	TOP BAR	OTHER	TOP BAR	OTHER
#3	20	15	26	20
#4	22	17	28	22
#5	27	21	35	27
#6	32	25	42	32
#7	38	29	49	38
#8	43	33	56	43
#9	48	37	63	48



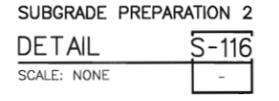
LOCATION	ESTIMATED DEPTH OF REMOVAL BELOW THE EXISTING GROUND SURFACE (DEEPER OF THE TWO NUMBERS)
EAST YSABEL	4 FEET OR 2 FEET BELOW BOTTOM OF FOOTING
SUNNY OAKS	3 FEET OR 1 FOOT BELOW BOTTOM OF FOOTING
MOUNTAIN VIEW	4 FEET OR 2 FEET BELOW BOTTOM OF FOOTING
MIDTOWN	5 FEET OR 1 FOOT BELOW BOTTOM OF FOOTING



- NOTES:**
1. VAPOR RETARDER SHALL CONSIST OF 2 INCHES OF COARSE SAND, OVERLAIN BY A VISQUEEN MEMBRANE AND AN ADDITIONAL 2 INCHES OF SAND.
  2. SEE SPECIFICATION SECTION 02200 FOR ADDITIONAL SUBGRADE PREPARATION REQUIREMENTS.
  3. SUBGRADE PREPARATION IN THIS DETAIL IS FOR BUILDINGS WHERE SHALLOW GROUNDWATER OR WET SUBGRADE CONDITIONS ARE NOT ENCOUNTERED.
  4. CONTRACTOR SHALL DESIGN AND PROVIDE SHORING OR UNDERPINNING AS NEEDED TO PROTECT EXISTING STRUCTURES.
  5. SEE CIVIL DRAWINGS FOR FINISHED GRADE.



LOCATION	ESTIMATED DEPTH OF REMOVAL BELOW THE EXISTING GROUND SURFACE (DEEPER OF THE TWO NUMBERS)
WEST PASO/BAYWOOD	4 FEET OR 1 FOOT BELOW BOTTOM OF FOOTING
EAST PASO	5 FEET OR 2 FEET BELOW BOTTOM OF FOOTING
LUPINE	5 FEET OR 1 FOOT BELOW BOTTOM OF FOOTING
SOLANO	5 FEET OR 1 FOOT BELOW BOTTOM OF FOOTING



- NOTES:**
1. VAPOR RETARDER SHALL CONSIST OF 2 INCHES OF COARSE SAND, OVERLAIN BY A VISQUEEN MEMBRANE AND AN ADDITIONAL 2 INCHES OF SAND.
  2. SEE SPECIFICATION SECTION 02200 FOR ADDITIONAL SUBGRADE PREPARATION REQUIREMENTS.
  3. SUBGRADE PREPARATION IN THIS DETAIL IS FOR BUILDINGS WHERE SHALLOW GROUNDWATER OR WET SUBGRADE CONDITIONS ARE ENCOUNTERED.
  4. CONTRACTOR SHALL DESIGN AND PROVIDE SHORING OR UNDERPINNING AS NEEDED TO PROTECT EXISTING STRUCTURES.
  5. SEE CIVIL DRAWINGS FOR FINISHED GRADE.

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: DTP  
DRAWN BY: ASJ/TVN  
CHECKED BY: LGS  
DATE: APRIL 2012



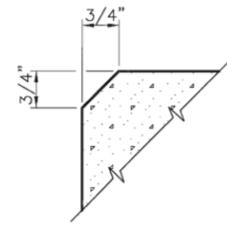
0 1/2 1  
IF THIS BAR DOES NOT MEASURE 1" THEN ADJUST SCALE ACCORDINGLY



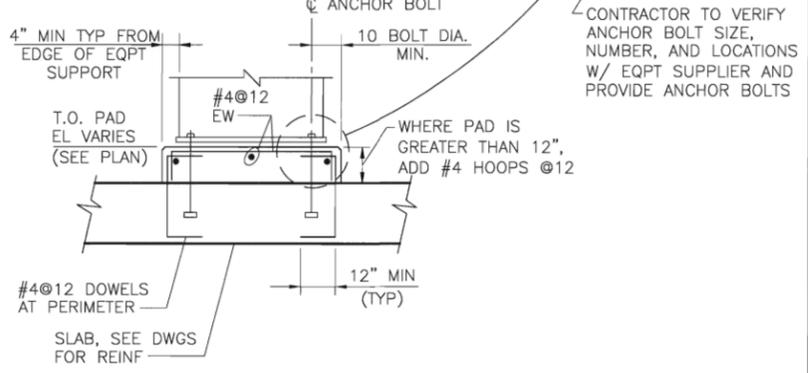
LOS OSOS WASTEWATER COLLECTION SYSTEM  
**STANDARD STRUCTURAL DETAILS 1**

PROJECT NO. 42502-83120  
FILE NAME: PS-S-003  
SHEET NO.  
**PS-S-003**

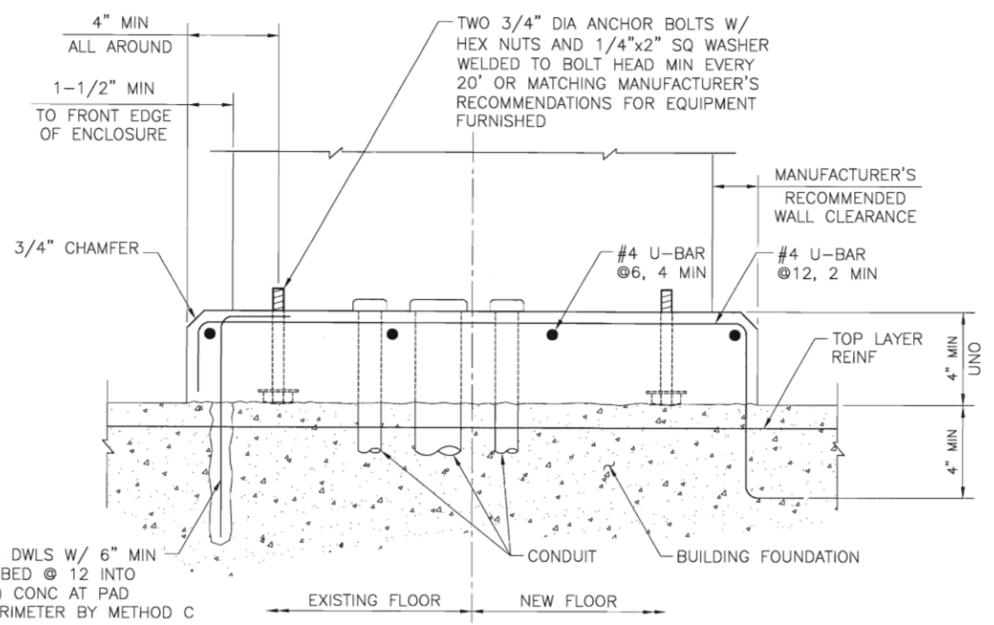
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**CONCRETE CHAMFER**  
**DETAIL S-140**  
 SCALE: NONE

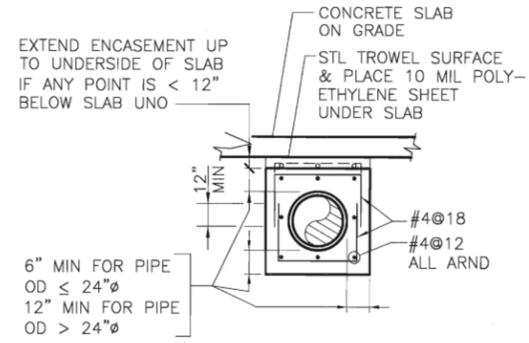


**EQUIPMENT PAD**  
**DETAIL S-150**  
 SCALE: NONE



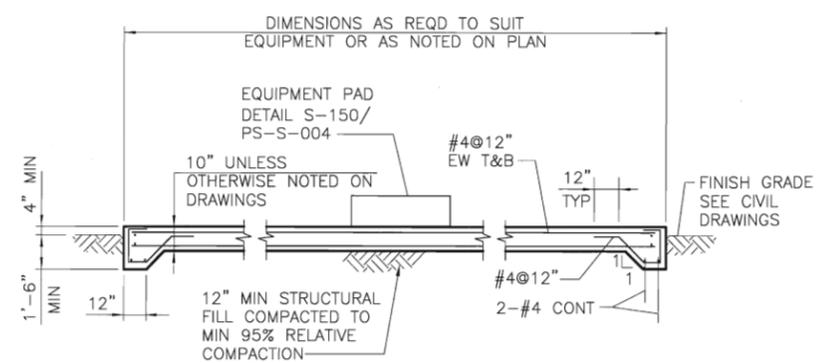
**ELECTRICAL EQUIPMENT PAD**  
**DETAIL S-160**  
 SCALE: NONE

**NOTE:**  
 1. UNLESS NOTED OTHERWISE, ALL INDOOR FLOOR-MOUNTED ELECTRICAL EQUIPMENT, INCLUDING SWITCHGEAR, SWITCHBOARDS, MOTOR CONTROL CENTERS, ADJUSTABLE FREQUENCY DRIVES, INSTRUMENT CABINETS, ETC., SHALL BE PROVIDED WITH EQUIPMENT PAD.

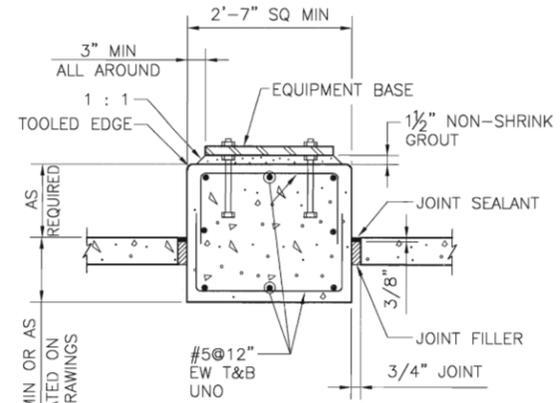


**PIPE ENCASMENT**  
**DETAIL S-172**  
 SCALE: NONE

**NOTE:** CONCRETE ENCASMENT SHALL EXTEND BEYOND STRUCTURE TO FIRST PIPE JOINT, UNO.

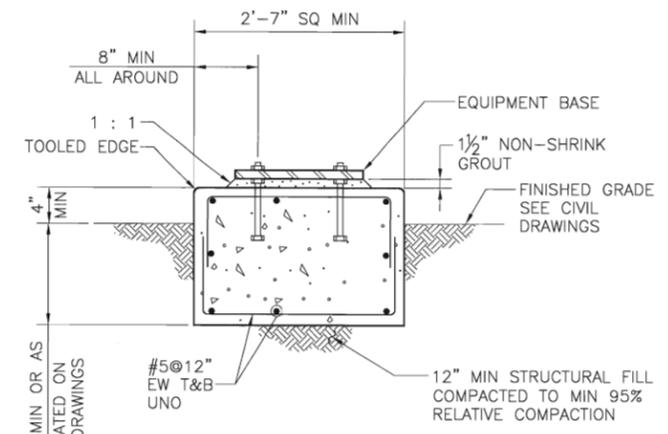


**EXTERIOR EQUIPMENT SLAB**  
**DETAIL S-190**  
 SCALE: NONE



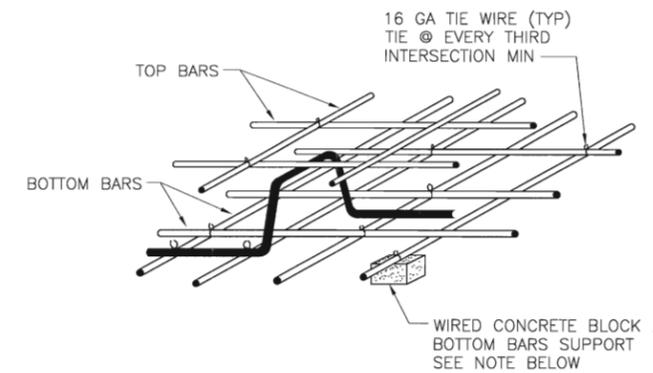
**EQUIPMENT BASE ON GRADE WITH SEPARATING JOINT**  
**DETAIL S-193**  
 SCALE: NONE

**NOTES:**  
 1. WHERE NO DIMENSION IS INDICATED ON THE DRAWINGS, BASE DEPTH SHALL BE SET SO THAT THE BASE WEIGHS AT LEAST THREE TIMES THE WEIGHT OF THE EQUIPMENT SUPPORTED.  
 2. SEE DETAIL S-115 OR S-116 FOR SUBGRADE PREPARATION REQUIREMENTS.



**SMALL EQUIPMENT BASE ON GRADE**  
**DETAIL S-194**  
 SCALE: NONE

**NOTES:**  
 1. SUPPORTED EQUIPMENT SHALL NOT EXCEED 500 LBS OR 5'-0" IN HEIGHT.  
 2. WHERE NO DIMENSION IS INDICATED ON THE DRAWINGS, BASE DEPTH SHALL BE THE GREATER OF 1'-10" AND A DEPTH SUCH THAT THE BASE WEIGHS AT LEAST THREE TIMES THE WEIGHT OF THE EQUIPMENT SUPPORTED.



**REINFORCEMENT SUPPORT**  
**DETAIL S-204**  
 SCALE: NONE

**NOTE:** METAL BAR SUPPORTS, IF USED IN SLABS NOT ON GROUND, SHALL NOT MAKE CONTACT WITH FORMS.

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: DTP  
 DRAWN BY: ASJ/TVN  
 CHECKED BY: LGS  
 DATE: APRIL 2012

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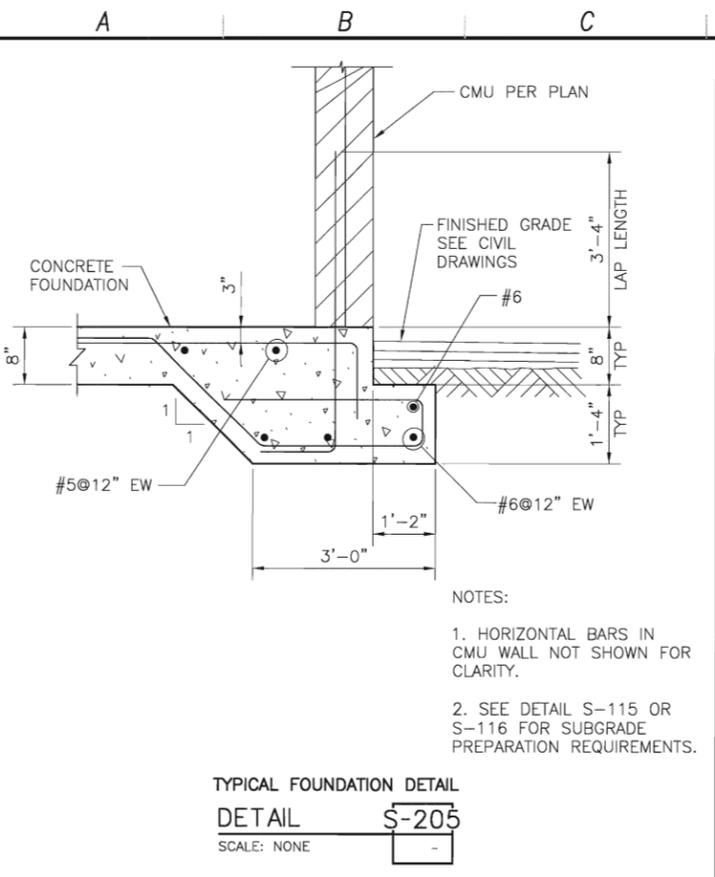


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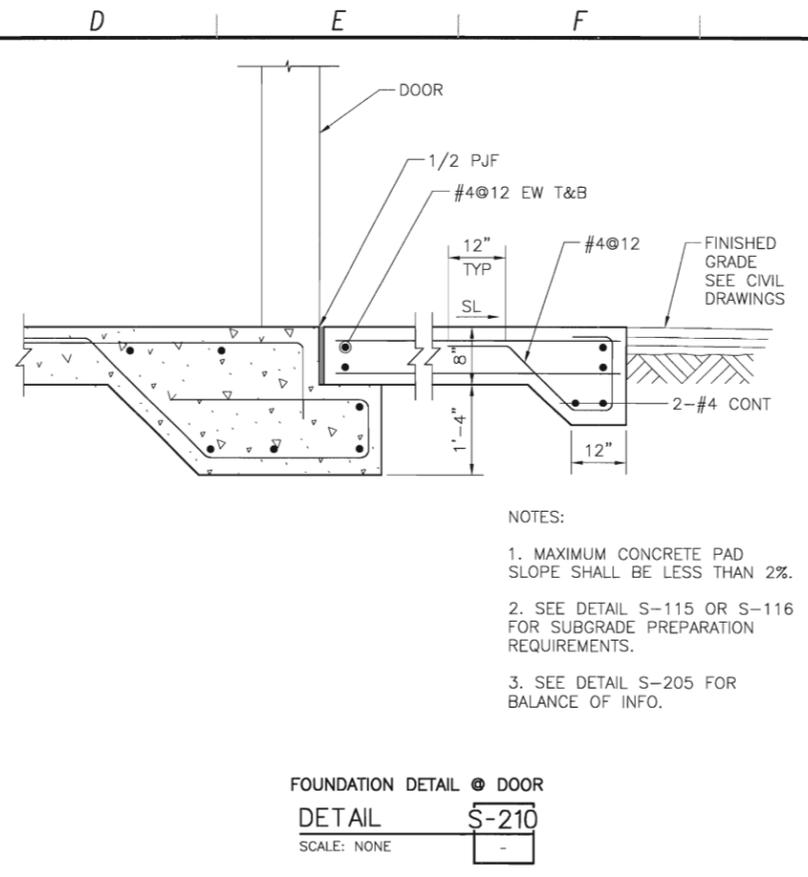
LOS OSOS WASTEWATER COLLECTION SYSTEM  
**STANDARD STRUCTURAL DETAILS 2**

PROJECT NO. 42502-83120  
 FILE NAME: PS-S-004  
 SHEET NO.  
**PS-S-004**

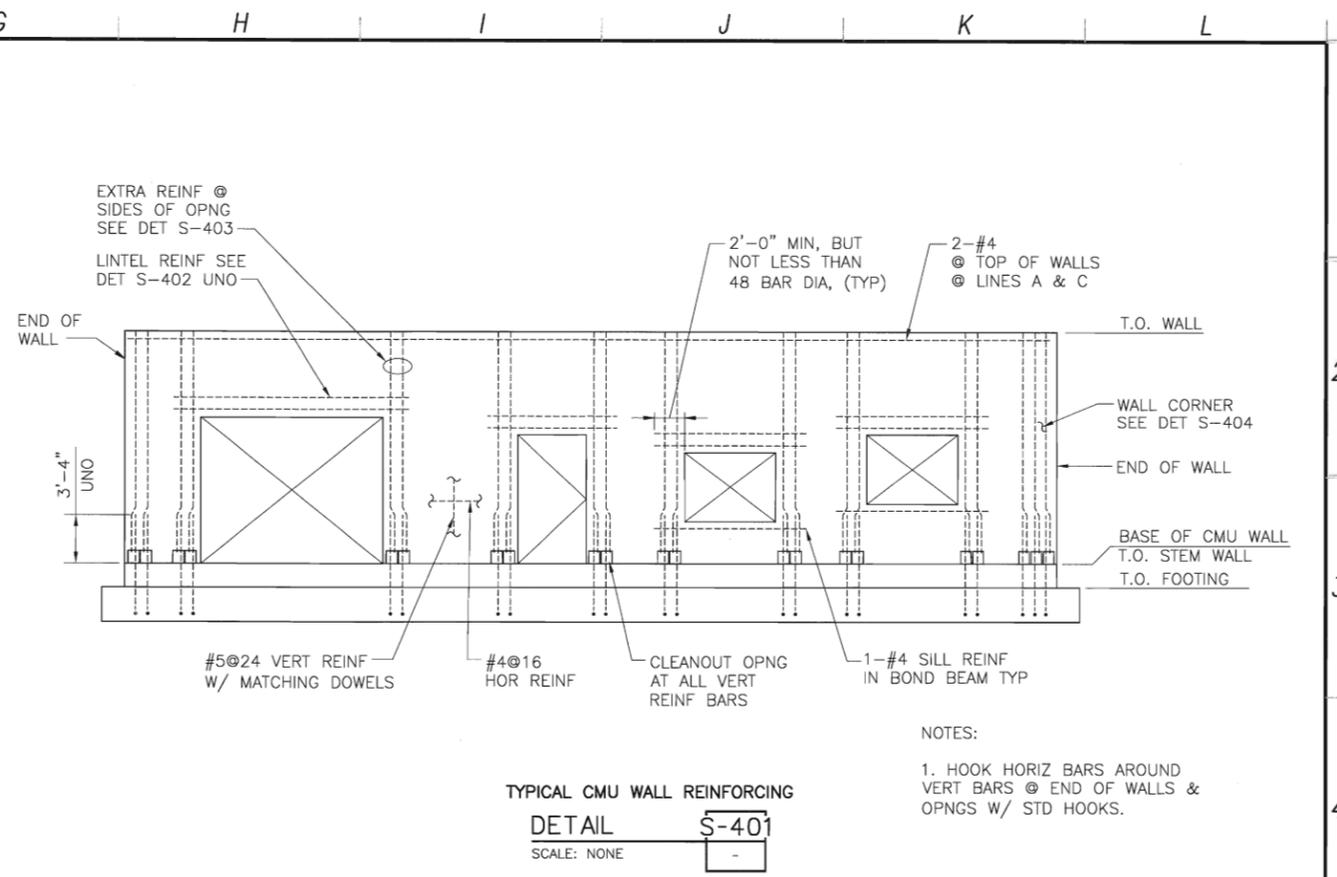
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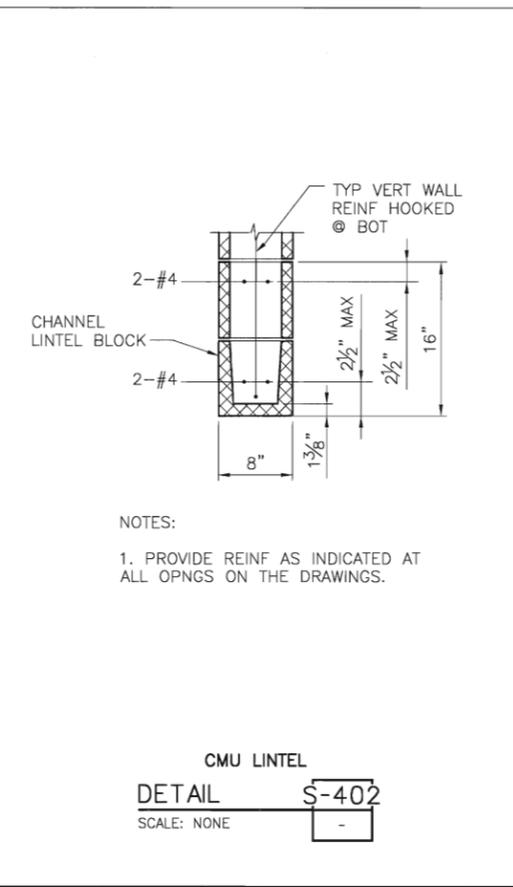
**TYPICAL FOUNDATION DETAIL**  
**DETAIL S-205**  
 SCALE: NONE



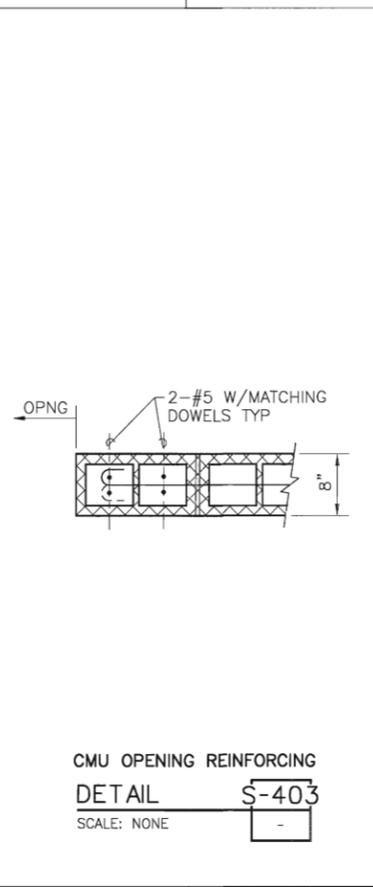
**FOUNDATION DETAIL @ DOOR**  
**DETAIL S-210**  
 SCALE: NONE



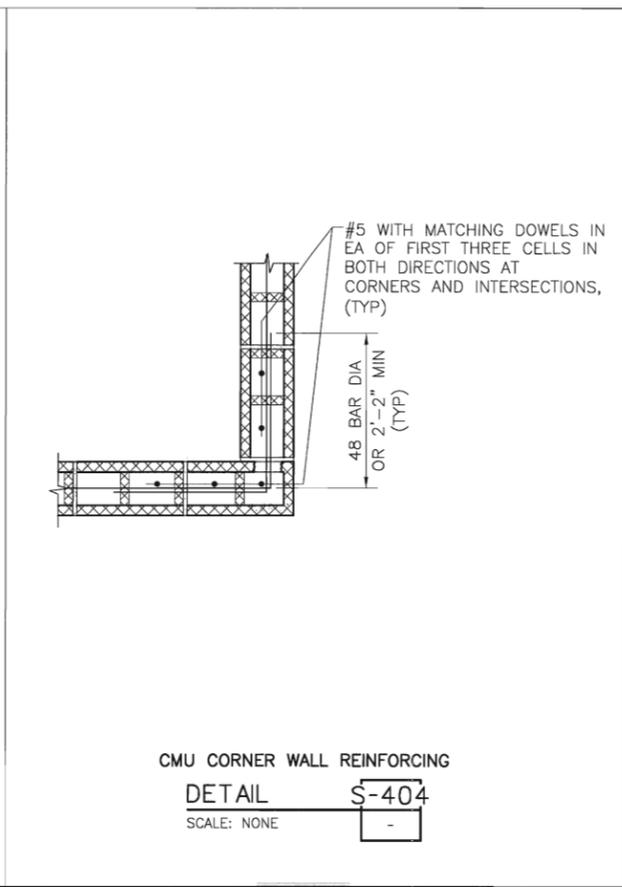
**TYPICAL CMU WALL REINFORCING**  
**DETAIL S-401**  
 SCALE: NONE



**CMU LINTEL**  
**DETAIL S-402**  
 SCALE: NONE



**CMU OPENING REINFORCING**  
**DETAIL S-403**  
 SCALE: NONE

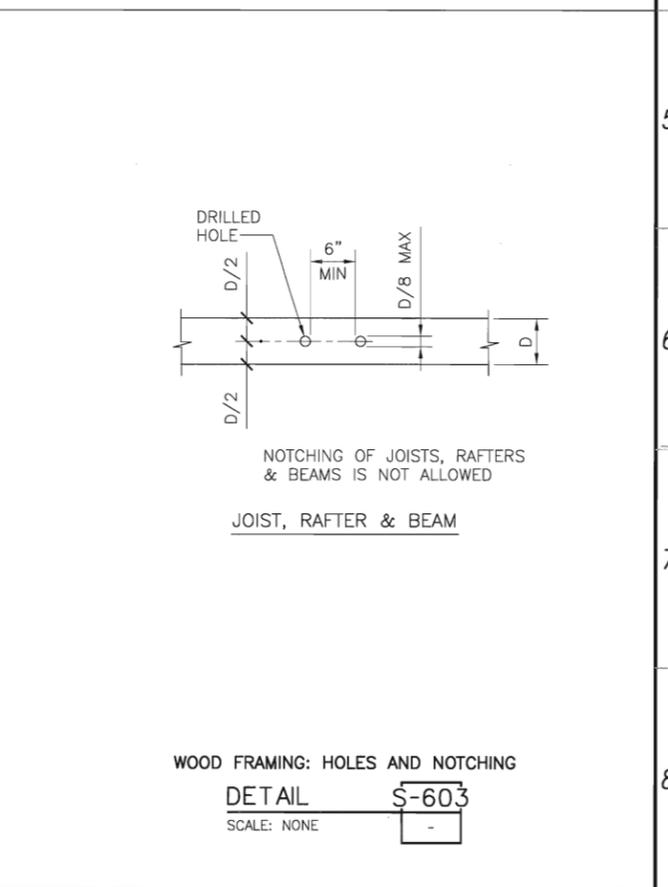


**CMU CORNER WALL REINFORCING**  
**DETAIL S-404**  
 SCALE: NONE

REINF SIZE	LAP SPLICE AND DEVELOPMENT LENGTH (INCHES)
#3	16
#4	26
#5	40
#6	74

NOTES:  
 1.  $f'm = 1,500$  psi;  $f_y = 60,000$  psi; COVER = 2"  
 2. DETERMINE LENGTH BASED ON LARGER BAR WHEN LAPPING DIFFERENT SIZE BARS UNO.

**CMU LAP SPLICE & DEVELOPMENT LENGTH**  
**DETAIL S-405**  
 SCALE: NONE



**WOOD FRAMING: HOLES AND NOTCHING**  
**DETAIL S-603**  
 SCALE: NONE

REV. NO.	DATE	DRWN	CHKD	REMARKS

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 DRAWN BY: ASJ/TVN  
 CHECKED BY: LGS  
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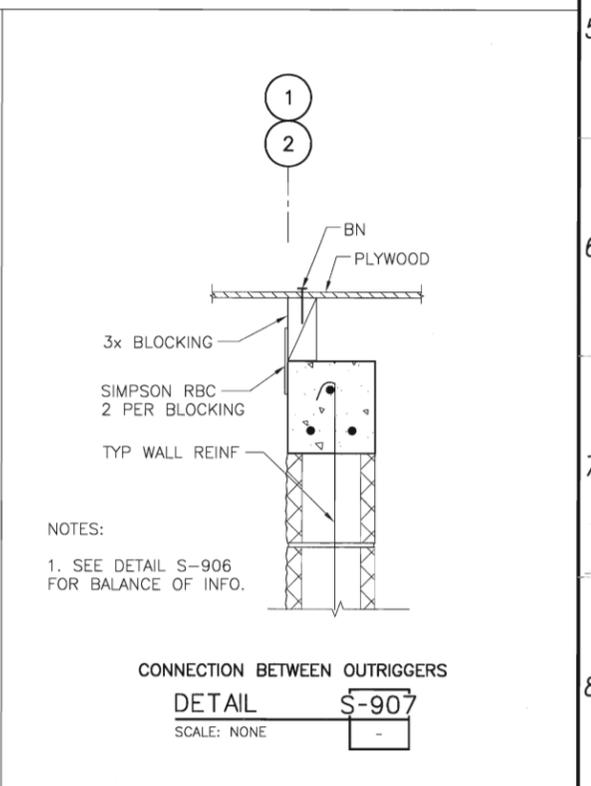
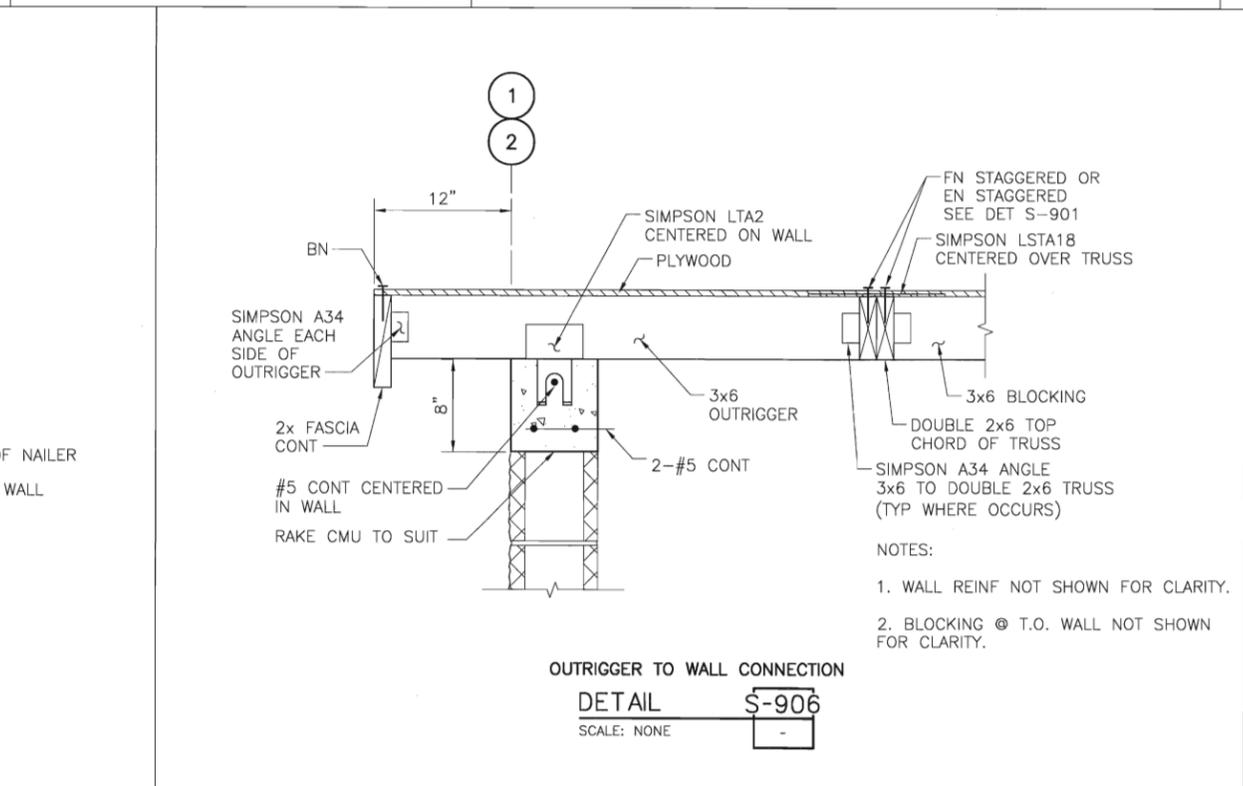
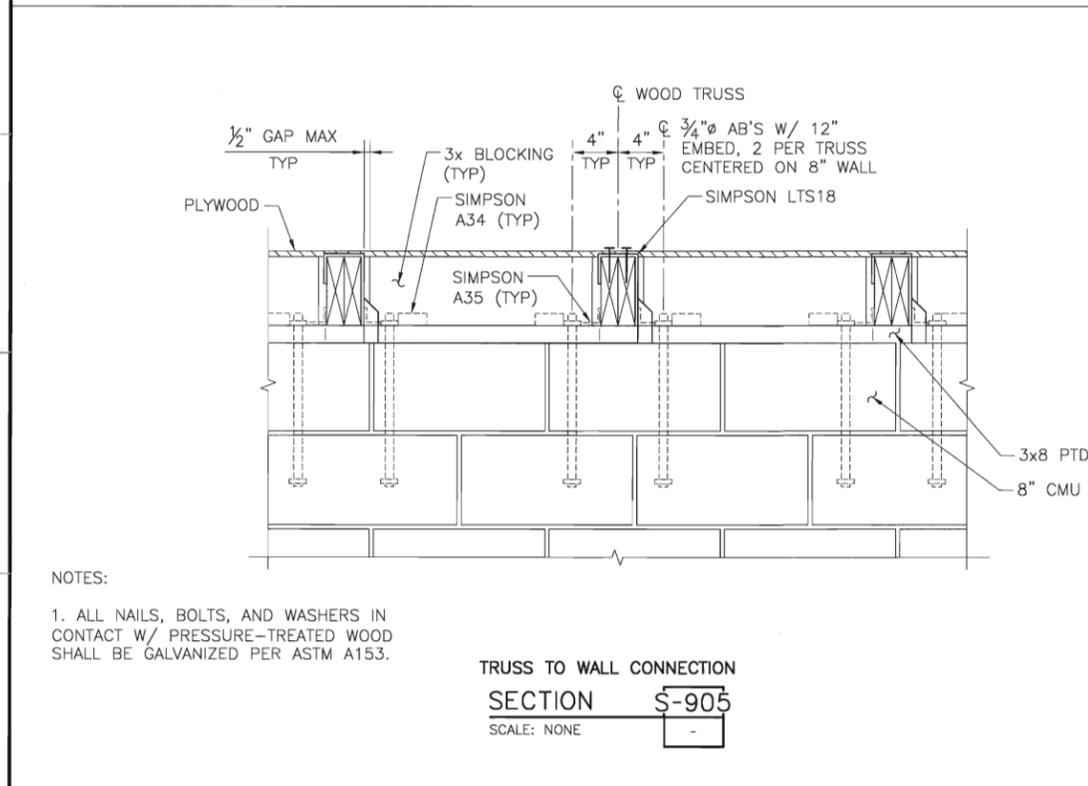
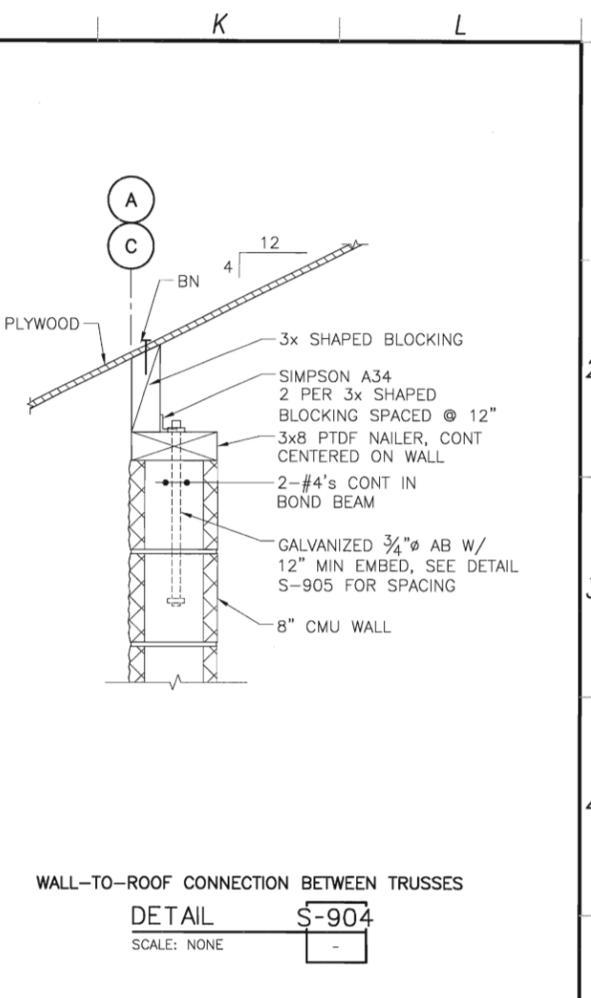
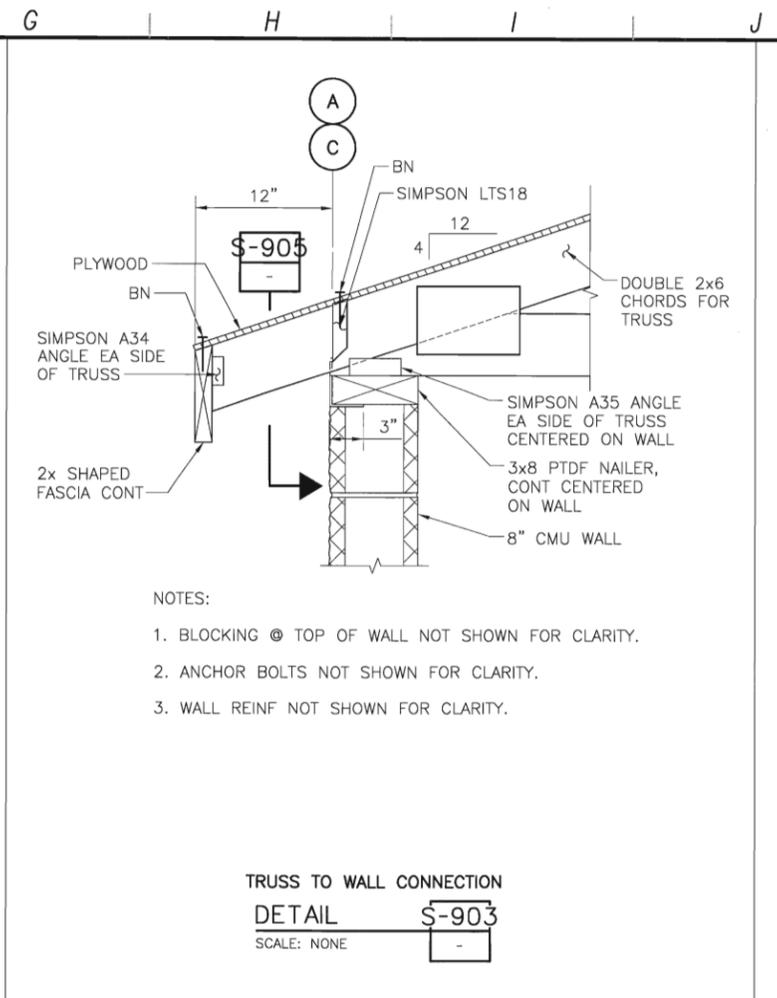
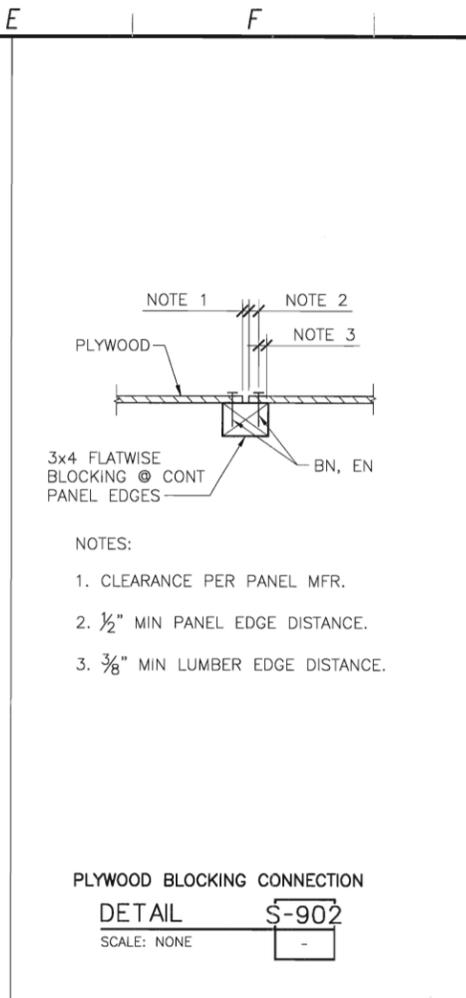
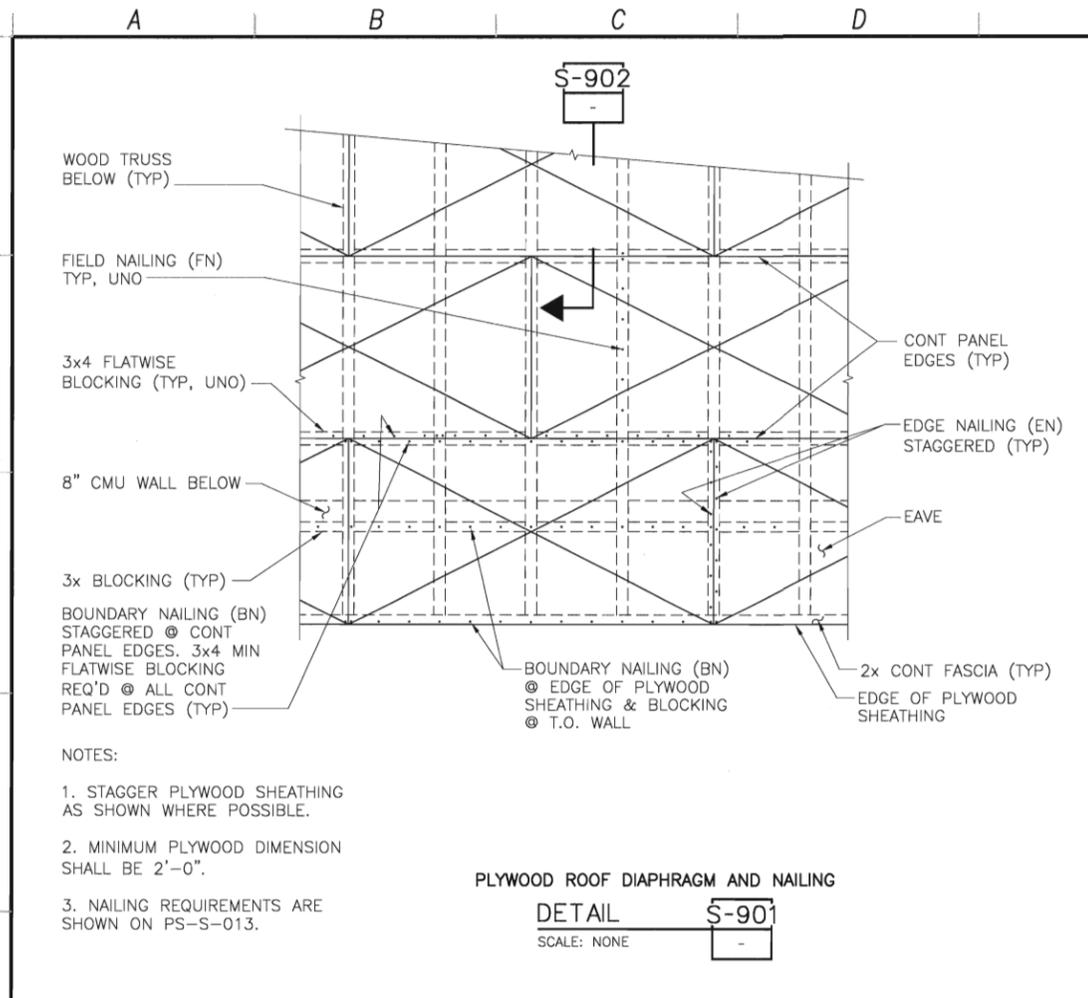


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LOS OSOS WASTEWATER COLLECTION SYSTEM  
**STANDARD STRUCTURAL DETAILS 3**

PROJECT NO. 42502-83120  
 FILE NAME: PS-S-005  
 SHEET NO.  
**PS-S-005**

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 CHECKED BY: LGS  
 DATE: APRIL 2012



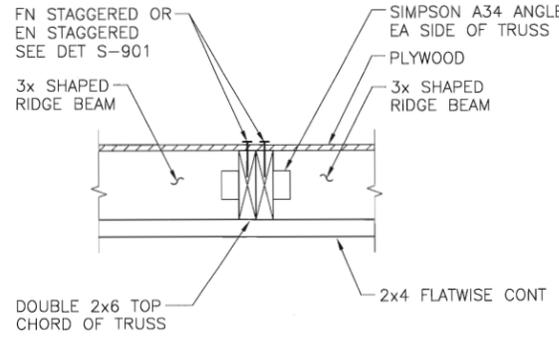
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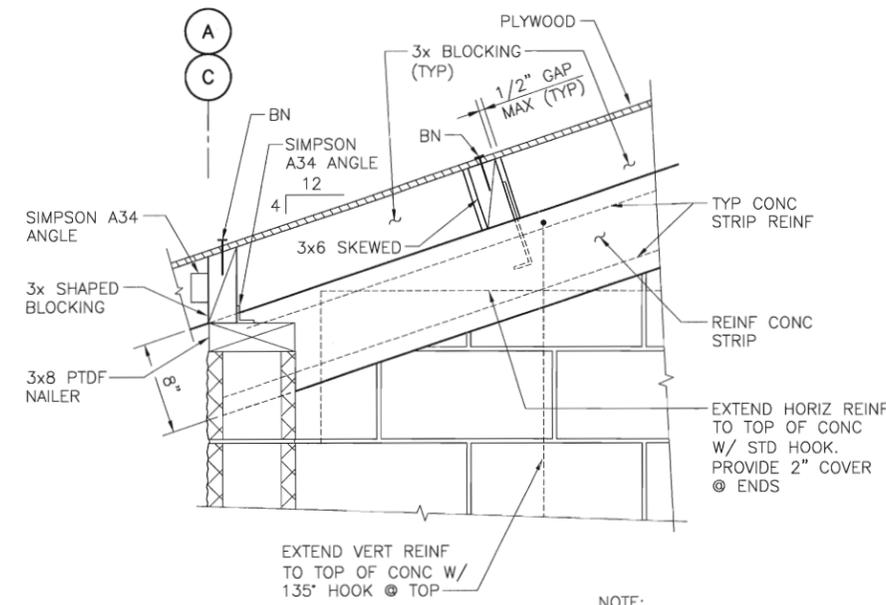
LOS OSOS WASTEWATER COLLECTION SYSTEM  
 STANDARD STRUCTURAL DETAILS 4

PROJECT NO. 42502-83120  
 FILE NAME: PS-S-006  
 SHEET NO. PS-S-006

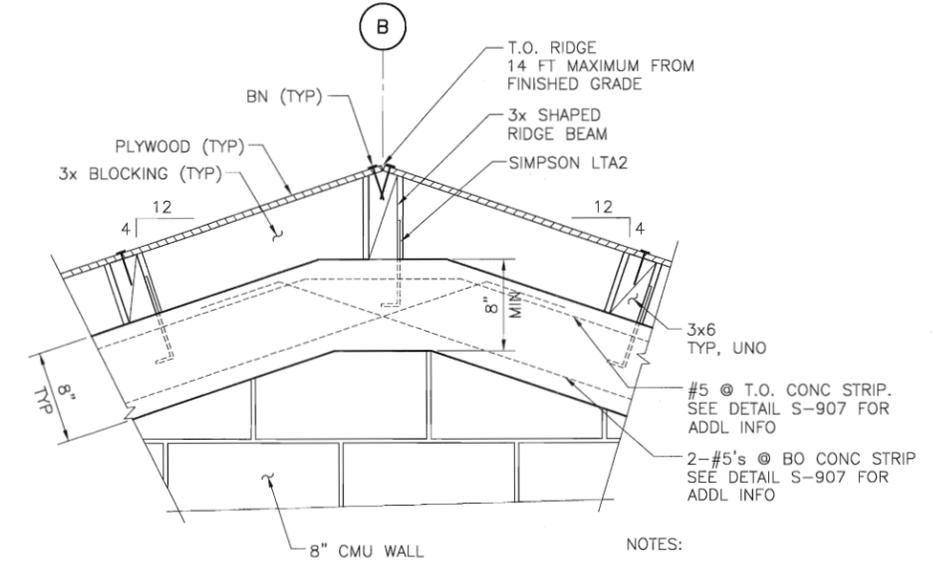
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**RIDGE BEAM TO TRUSS CONNECTION**  
**DETAIL S-908**  
 SCALE: NONE

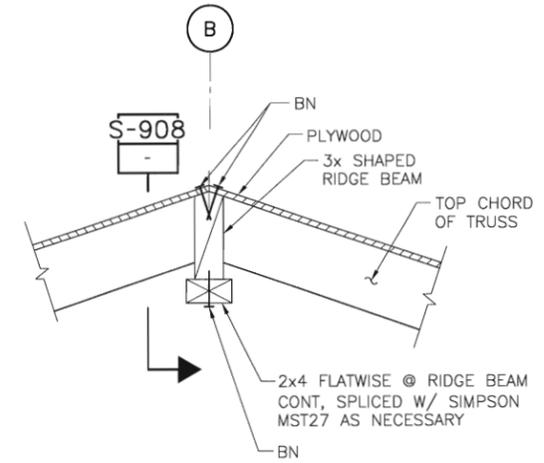


**REINFORCED CONCRETE STRIP @ TOP OF MASONRY WALL**  
**DETAIL S-909**  
 SCALE: NONE

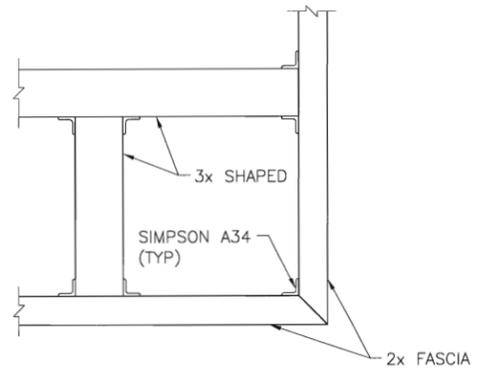


**REINFORCED CONCRETE STRIP @ TOP OF MASONRY WALL**  
**DETAIL S-910**  
 SCALE: NONE

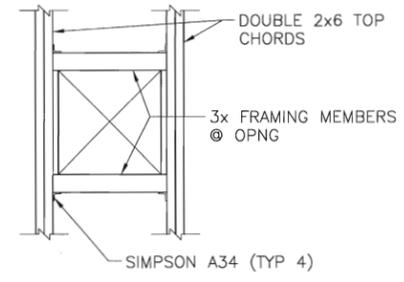
- NOTES:
- 2x4 FLATWISE UNDER RIDGE BEAM NOT SHOWN FOR CLARITY. SEE DETAIL S-911 FOR ADDL INFO.
  - SIMPSON RBC NOT SHOWN FOR CLARITY.



**RIDGE BEAM**  
**DETAIL S-911**  
 SCALE: NONE



**FASCIA CORNER**  
**DETAIL S-912**  
 SCALE: NONE

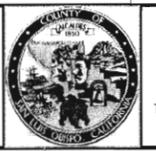


**ROOF OPENING**  
**DETAIL S-913**  
 SCALE: NONE

REV. NO.	DATE	DRWN	CHKD	REMARKS

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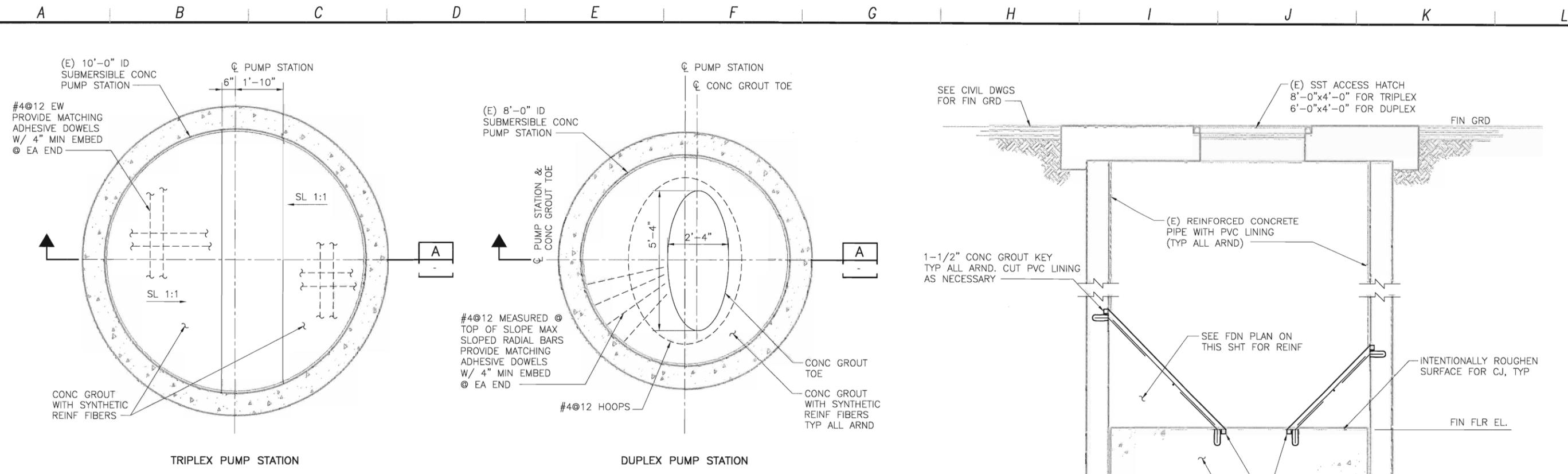


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LOS OSOS WASTEWATER COLLECTION SYSTEM  
**STANDARD STRUCTURAL DETAILS 5**

PROJECT NO. 42502-83120  
 FILE NAME: PS-S-007  
 SHEET NO.  
**PS-S-007**

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

**SECTION A-A**  
SCALE: 1/2"=1'

- NOTES:
- REFER TO THE TABLE HEREIN FOR THE EXISTING FINISHED GRADE ELEVATIONS AND EXISTING FINISHED FLOOR ELEVATIONS OF THE WET WELLS AT VARIOUS SITES.

PUMP	TRIPLEX			DUPLEX					
	WEST PASO	MID-TOWN	BAYWOOD	EAST YSABEL	EAST PASO	MOUNTAIN VIEW	SUNNY OAKS	SOLANO	LUPINE
(E) SUBMERSIBLE PS FIN GRD EL.	17.04'	98.0'	10.16'	79.3'	71.50'	100.20'	154.90'	15.60'	12.10'
(E) SUBMERSIBLE PS FIN FLR EL.	-3.40'	76.3'	-7.70'	64.80'	56.70'	86.70'	146.50'	-1.80'	-9.20'
SUBMERSIBLE PS I.D.	10'-0"	10'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"

REV. NO.	DATE	DRWN	CHKD	REMARKS

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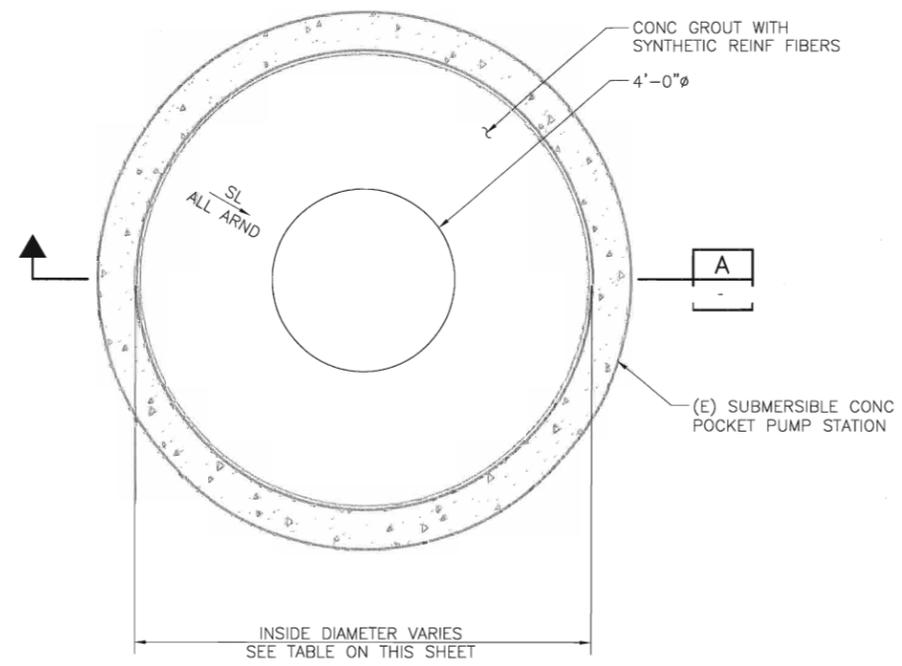
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LOS OSOS WASTEWATER COLLECTION SYSTEM  
**STRUCTURAL SUBMERSIBLE PUMP STATIONS FOUNDATION PLANS, SECTION & DETAILS**

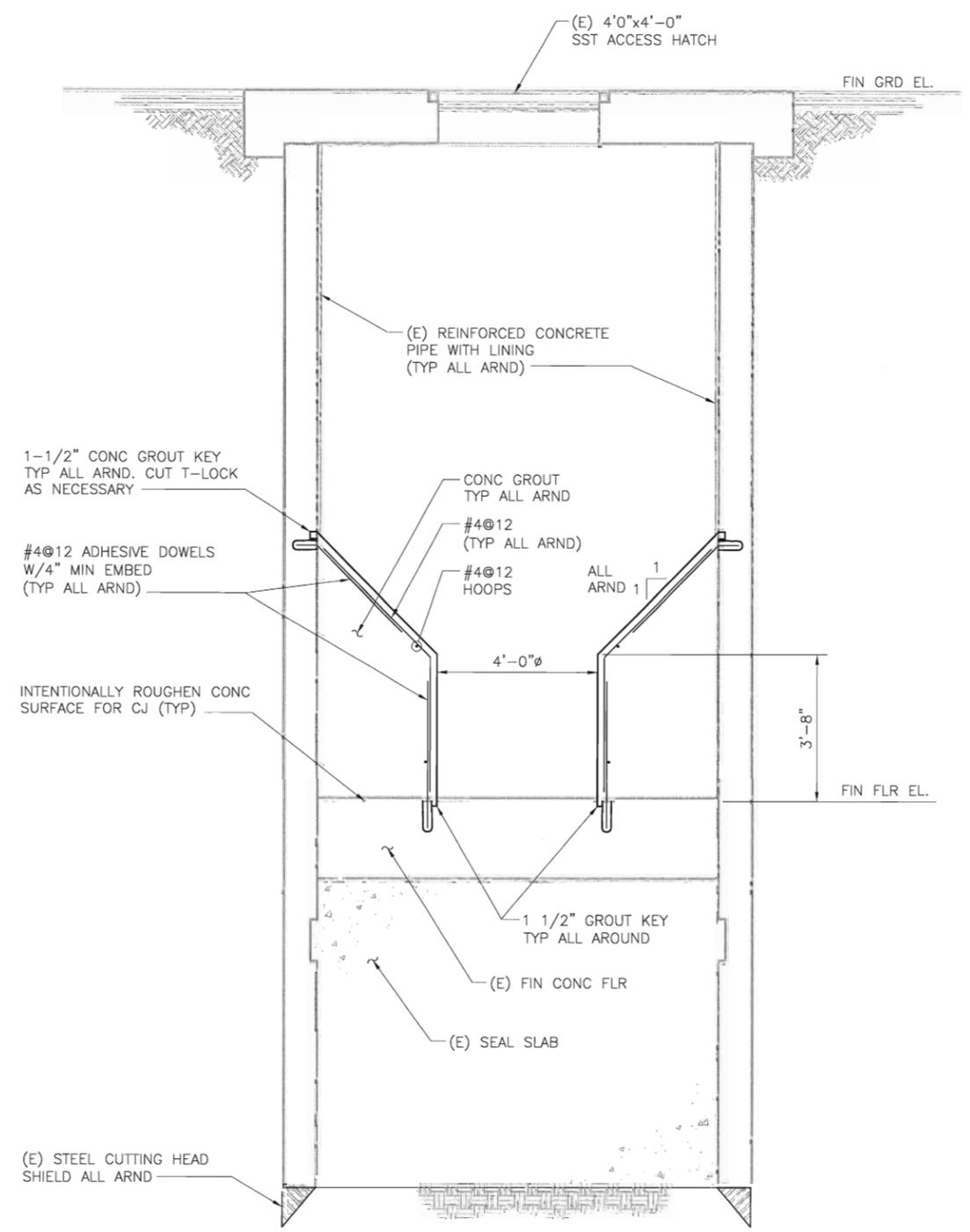
PROJECT NO. 42502-83120  
 FILE NAME: PS-S-011  
 SHEET NO.  
**PS-S-011**

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A B C D E F G H I J K L



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



**SECTION A**  
SCALE: 1/2"=1' PS-S-015

NOTES:  
1. REFER TO THE TABLE HEREIN FOR THE EXISTING GROUND ELEVATIONS AND EXISTING FINISHED FLOOR ELEVATIONS OF THE POCKET PUMP STATIONS AT VARIOUS SITES.

SITE LOCATION	04A	07A	08A	09A	09B	09C	10A	11A	12A	13A	15B	5A
POCKET PS GRD EL.	18.04'	45.50'	28.00'	33.00'	73.00'	92.50'	47.70'	53.10'	68.00'	77.40'	94.50'	89.20'
POCKET PS FIN FLR EL.	5.83'	33.93'	14.83'	19.33'	59.66'	75.49'	31.83'	37.83'	55.83'	6.03'	82.67'	71.66'
POCKET PS I.D.	10'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	10'-0"	10'-0"	8'-0"	10'-0"

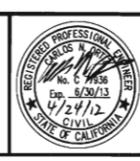
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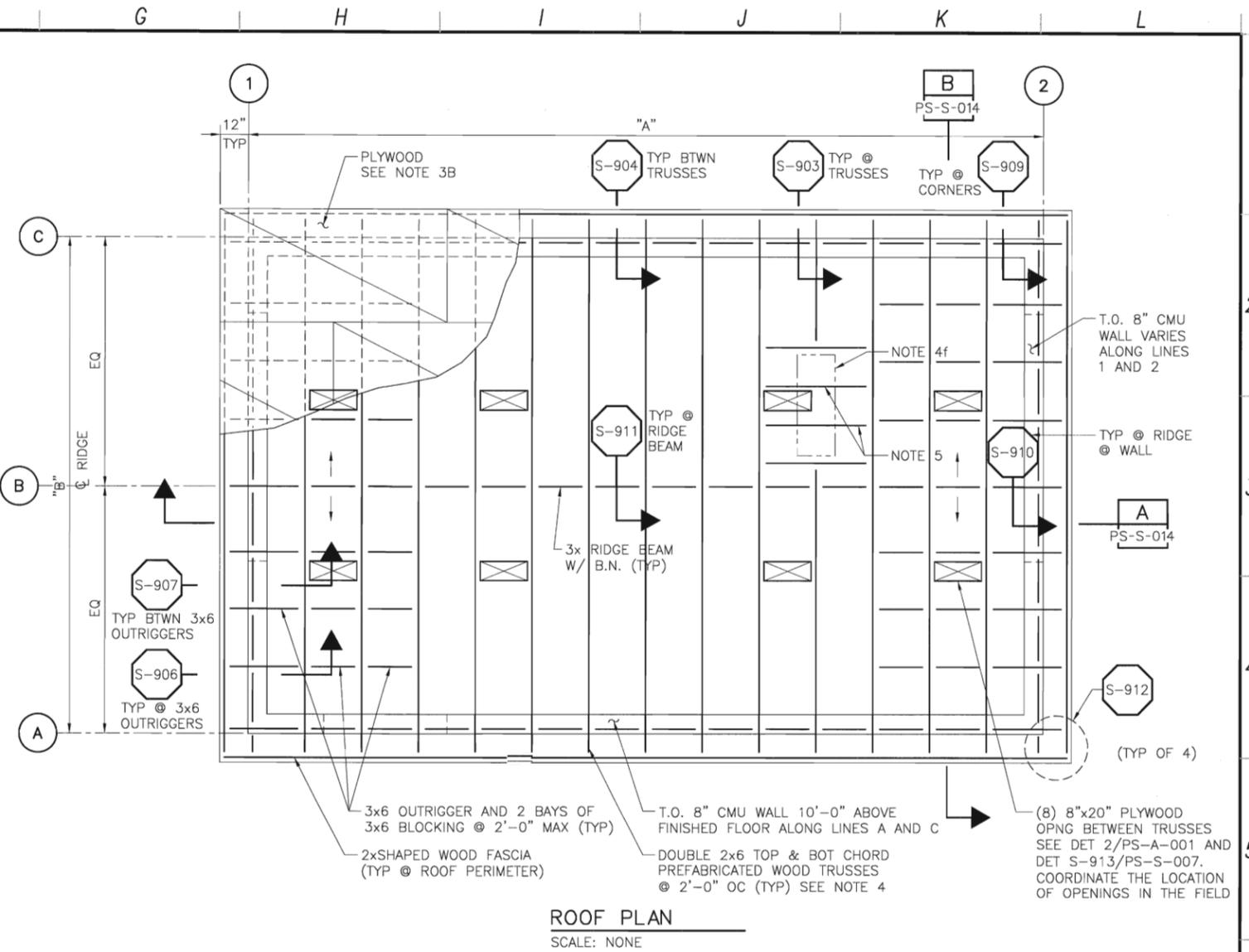
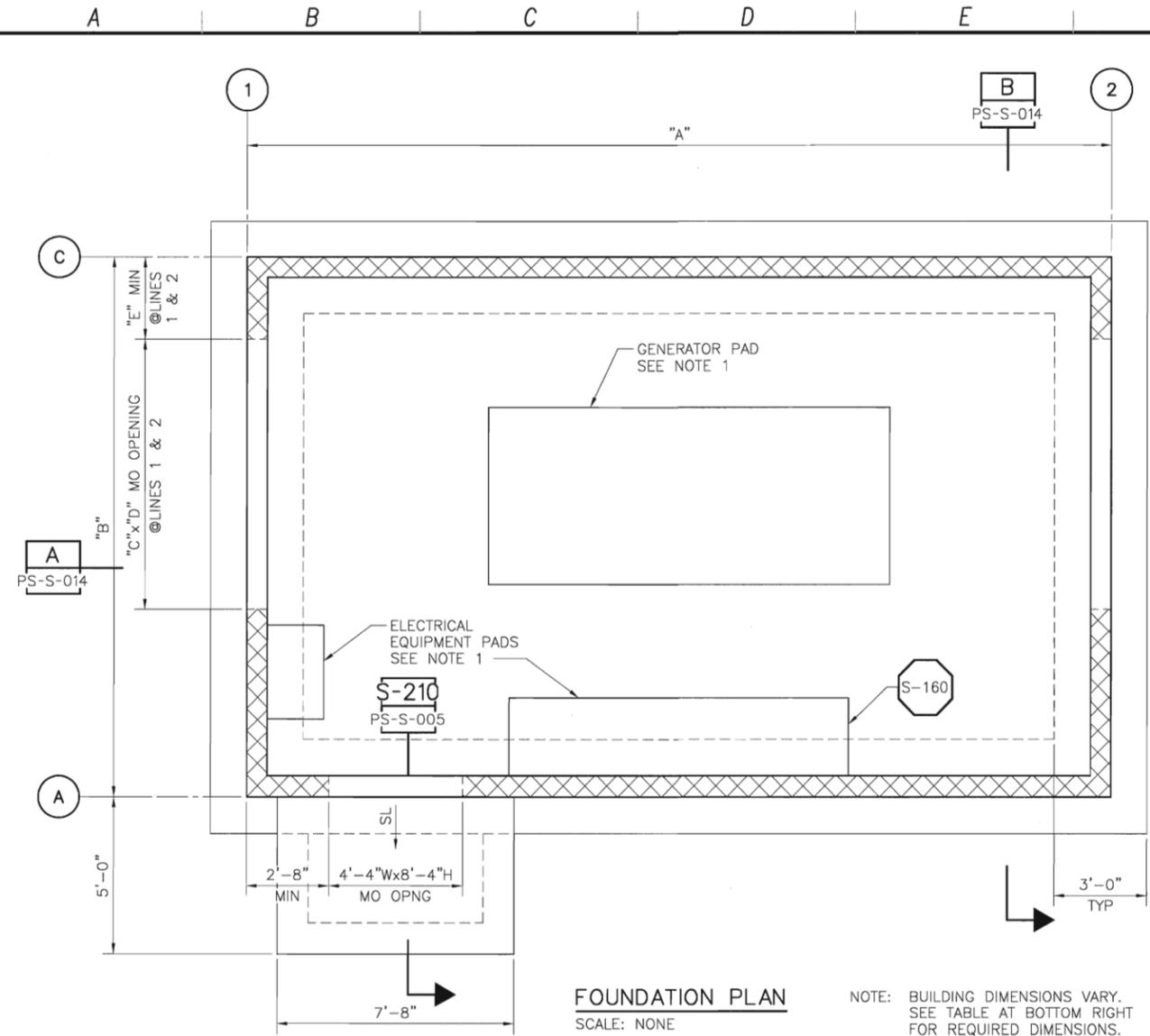


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LOS OSOS WASTEWATER COLLECTION SYSTEM  
**STRUCTURAL POCKET PUMP STATION**  
 FOUNDATION PLAN, SECTION AND DETAILS

PROJECT NO. 42502-83120  
 FILE NAME: PS-S-012  
 SHEET NO. PS-S-012

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- NOTES:
- CONTRACTOR SHALL VERIFY ALL THE SIZES, LOCATIONS, AND DETAILS OF EQUIPMENT, LOUVERED VENTS, DOORS, PUMP, AND TANK PADS. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR GENERATOR PAD AND ELECTRICAL PAD LOCATIONS AND ANY REQUIRED MINIMUM CLEARANCE. CONCRETE PAD DIMENSIONS SHALL BE BASED ON THE ACTUAL EQUIPMENT SELECTED AND MINIMUM EDGE DISTANCE REQUIREMENTS IN DRAWINGS.
  - FINISHED GRADE AROUND THE BUILDING PERIMETER SHALL BE SLOPED AWAY FROM THE BUILDING LINE. SEE CIVIL DRAWINGS.
  - WOOD FRAMING :
    - NAILING SHALL BE PER CBC 2010 TABLE 2306.2.1(1) UNLESS INDICATED OTHERWISE.
    - PLYWOOD FOR ROOFS SHALL BE 5/8" CD-X W/ 24/0 SPAN RATING. PROVIDE 3x4 FLATWISE BLOCKING AT ALL EDGES PER DET S-901 W/ 10d COMMON NAILS, 4" OC BN, 6" OC EN, 12" OC FN. SEE DETAIL S-901 FOR MORE DETAILS.

4. WOOD TRUSS NOTES:
- TRUSS MANUFACTURER'S ENGINEER SHALL DESIGN ALL TRUSS MEMBERS AND CONNECTIONS. TRUSS SHOWN IS SCHEMATIC.
  - TRUSS SHALL BE DESIGNED BY THE MFR FOR THE FOLLOWING LOADS:
 

SUPERIMPOSED DEAD LOAD 17 PSF

ACTUAL TRUSS WEIGHT

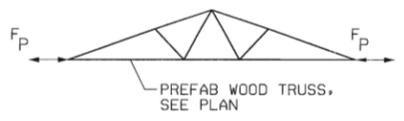
VENTILATION/ MECHANICAL UNITS HANGING FROM TRUSS OR ON THE ROOF IF REQD AS PER BUILDING MECHANICAL DWG(S) (CONTRACTOR SHALL PROVIDE THIS LOADING TO TRUSS ENGINEER)

LIVE LOAD 20 PSF (UNREDUCIBLE)

WIND LOAD (PER ASCE 7-05) 85 MPH (BASIC WIND SPEED)

EXPOSURE D

$I_w = 1.15$



LOAD	(TC) AXIAL LOAD $F_p$
WL	0.6 Kip
EQ/1.4	1.5 Kip

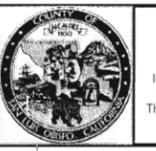
- WALL TIE LOAD ACTS AT BASE OF SHOE AT WALL BEARING LOCATIONS. TRUSS DESIGN SHALL ACCOUNT FOR ADDED MOMENT DUE TO ECCENTRICITY FROM WALL TIE LOADS.
- BOTTOM CHORD SHALL BE DESIGNED FOR A 250 LB DOWNWARD CONCENTRATED LOAD AT ANY LOCATION BETWEEN PANEL POINTS. SEE MECHANICAL AND ELECTRICAL DRAWINGS.
- LOADS GIVEN ARE ALLOWABLE STRESS DESIGN UNO.
- SUPPORT SILENCERS BELOW THE ROOF TRUSS WHENEVER POSSIBLE. OTHERWISE, DISCONTINUE NO MORE THAN ONE TRUSS BOTTOM CHORD TO ACCOMMODATE SILENCER HUNG BETWEEN TRUSSES. LOCATION AND SIZE OF SILENCER SHOWN IS APPROXIMATE AND WILL NEED TO BE ADJUSTED BASED ON THE ACTUAL GENERATOR USED AT SITE. CONTRACTOR SHALL COORDINATE SILENCER SIZE, LOCATION, SUPPORT, AND WEIGHT WITH TRUSS DESIGNER. TRUSS DESIGN SHALL TAKE INTO ACCOUNT ANY OPENING TO ACCOMMODATE SILENCER.
- SILENCER SUPPORT TO BE PROVIDED AND DESIGNED BY CONTRACTOR.

STANDBY POWER BUILDINGS	BUILDING DIMENSIONS				
	"A"	"B"	"C"	"D"	"E"
LUPINE	28'-0"	17'-4"	6'-0"	6'-0"	3'-0"
WEST PASO/BAYWOOD	30'-0"	17'-4"	8'-8"	8'-8"	2'-8"
EAST YSABEL	25'-4"	14'-8"	6'-0"	6'-0"	2'-8"
EAST PASO	25'-4"	14'-8"	6'-0"	6'-0"	2'-8"
MOUNTAIN VIEW	28'-0"	17'-4"	6'-0"	6'-0"	3'-0"
SUNNY OAKS	25'-4"	14'-8"	6'-0"	6'-0"	2'-8"
SOLANO	25'-4"	14'-8"	6'-0"	6'-0"	2'-8"
MIDTOWN	28'-0"	17'-4"	8'-8"	8'-8"	2'-8"

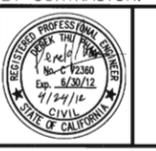
REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: DTP  
 DRAWN BY: ASJ/TVN  
 CHECKED BY: LGS  
 DATE: APRIL 2012

**CDM Smith**  
 2295 Gateway Oaks Drive, Suite 240  
 Sacramento, CA 95833  
 Tel: (916) 567-9900



0 1/2 1  
 IF THIS BAR DOES NOT MEASURE 1" THEN ADJUST SCALE ACCORDINGLY

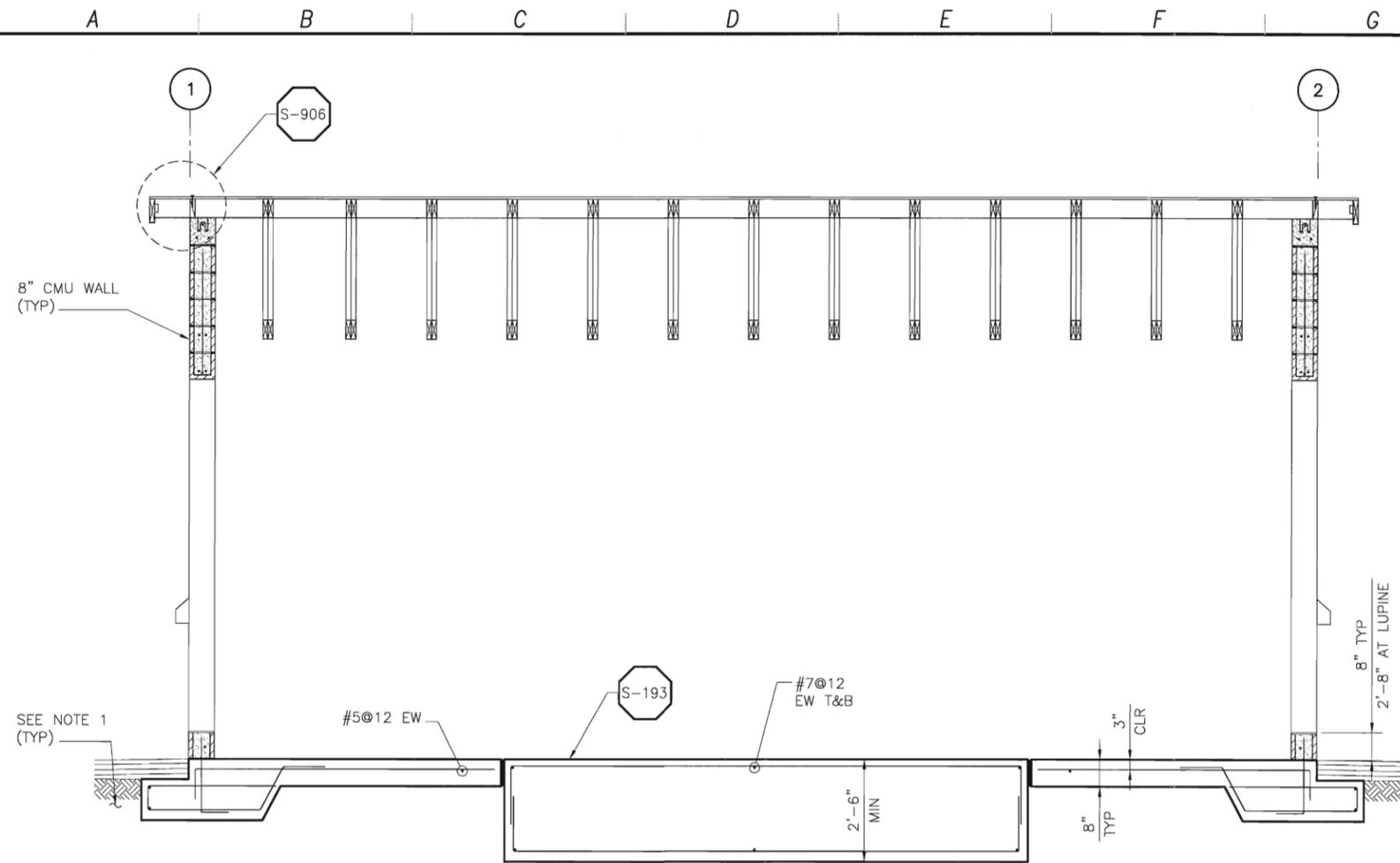


**DIGALERT**  
 DIAL TOLL FREE 1-800-642-2444  
 AT LEAST TWO DAYS BEFORE YOU DIG  
 UNDERGROUND SERVICE ALERT OF NORTHERN CALIFORNIA

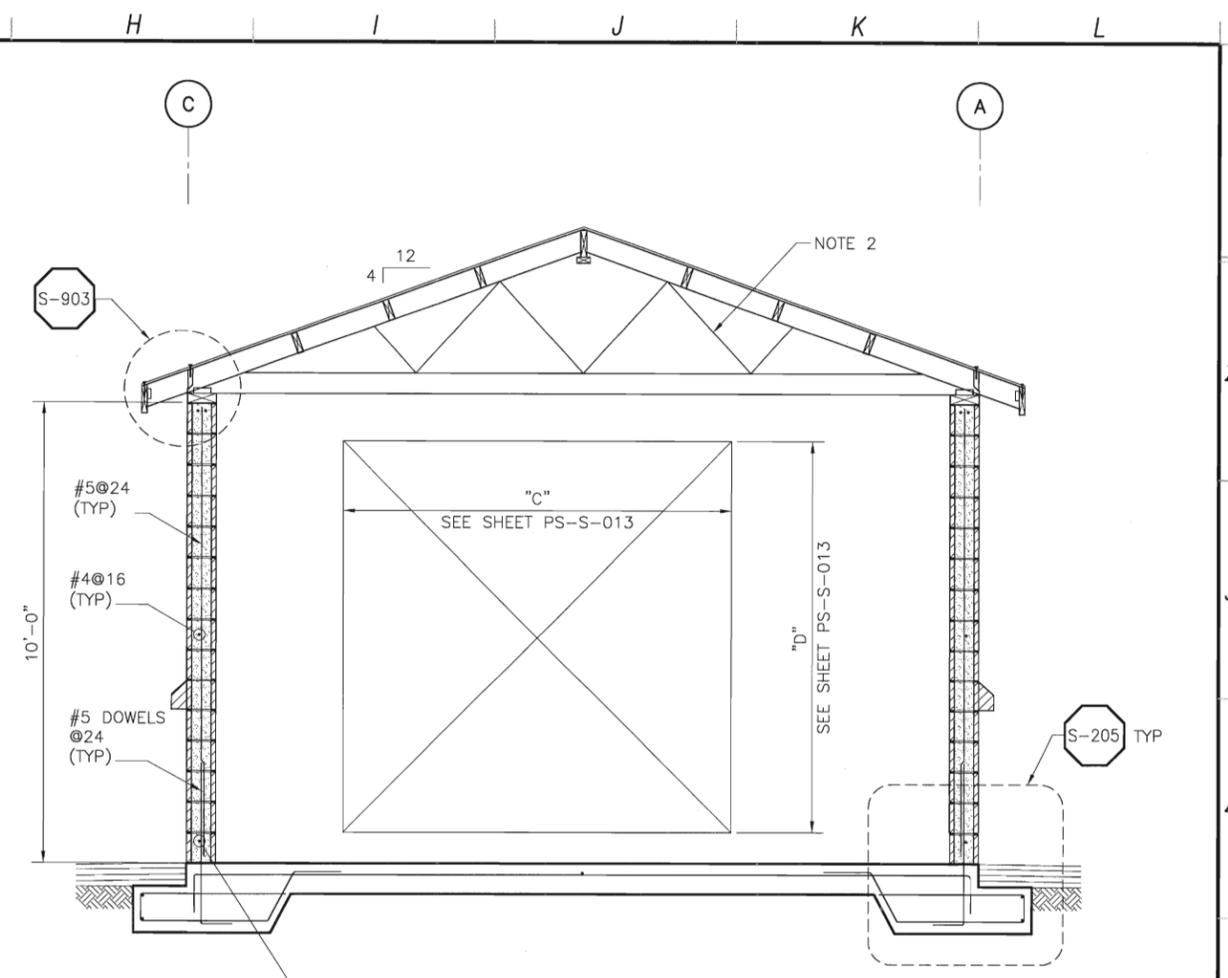
LOS OSOS WASTEWATER COLLECTION SYSTEM  
**STANDBY POWER BUILDING FOUNDATION AND ROOF PLAN**

PROJECT NO. 42502-83120  
 FILE NAME: PS-S-013  
 SHEET NO.  
**PS-S-013**

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SECTION **A**  
SCALE: 1/2"=1' PS-S-013



SECTION **B**  
SCALE: 1/2"=1' PS-S-013

- NOTES:
- SEE DETAILS S-115 AND S-116 FOR BUILDING SUBGRADE PREPARATION REQUIREMENTS.
  - WOOD TRUSS SHOWN IS SCHEMATIC AND SHALL BE DESIGNED BY THE TRUSS MANUFACTURER.
  - SEE DETAIL S-205 FOR TYPICAL FOUNDATION DETAILS.
  - EQPT MFR SHALL PROVIDE AND DESIGN ANCHOR BOLTS FOR EQPT. PROVIDE MINIMUM 6" CLEAR EDGE DISTANCE ALL AROUND FOR GENERATOR ANCHORS. ANCHOR BOLT DESIGN SHALL MEET THE REQUIREMENTS OF ACI 318 APPENDIX D.
  - FINISHED GRADE VARIES AT EACH BUILDING. SEE CIVIL DRAWINGS FOR GRADE ELEVATION.

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: DTP  
 DRAWN BY: ASJ/TVN  
 CHECKED BY: LGS  
 DATE: APRIL 2012

**CDM Smith**  
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 Sacramento, CA 95833  
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0 1/2 1  
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LOS OSOS WASTEWATER COLLECTION SYSTEM  
**STANDBY POWER BUILDING SECTIONS**

PROJECT NO. 42502-83120  
 FILE NAME: PS-S-014  
 SHEET NO.  
**PS-S-014**

# GENERAL NOTES

- A. ALL DIMENSIONS ARE TO THE FACE OF FRAMING UNLESS OTHERWISE NOTED.
- B. CONTRACTOR TO PROVIDE SHEATHING ON THE INTERIOR SIDE OF ALL WALLS WHERE STRUCTURAL SHEATHING OCCURS TO PROVIDE A CONTINUOUS AND FLUSH WALL SURFACE FOR THE ENTIRE WALL.
- C. ALL DOOR THRESHOLDS TO BE LEVEL FROM JAMB TO JAMB.
- D. ALL DOOR JAMBS ON HINGE SIDE TO BE 6" FROM CORNER OF WALL UNLESS OTHERWISE NOTED.
- E. REFER TO PLUMBING PLANS FOR FURTHER INFORMATION.
- F. REFER TO CIVIL PLANS FOR FURTHER INFORMATION ON ADJACENT SITE IMPROVEMENTS.
- G. REFER TO STRUCTURAL PLANS FOR FURTHER INFORMATION AND COORDINATION.
- H. REFER TO MECHANICAL PLANS FOR FURTHER INFORMATION ON EQUIPMENT LOCATIONS AND PENETRATIONS.

# DOOR SCHEDULE

DOOR TYPE	RATING	FRAME TYPE	SIZE (WxH)	HDWR GROUP	NOTES
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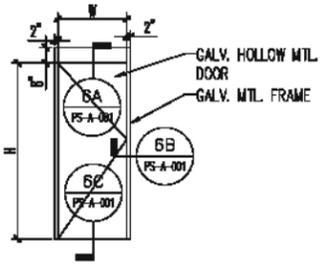
### STANDBY POWER BUILDINGS

A	STC-43	MTL	4'-0"X8'-0"	-	-
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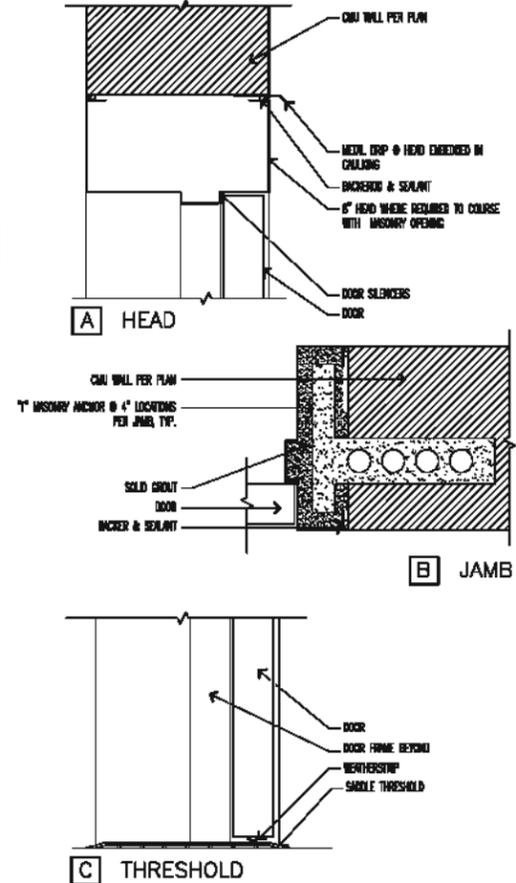
### NOTES:

- A. VERIFY ROOF OPENING SIZE WITH DOOR MANUFACTURER SPEC. PRIOR TO CONSTRUCTION.
- B. DOOR SIZE REFERS TO FINISH OPENING. CONTRACTOR TO VERIFY ACTUAL DOOR SIZE TO FIT FINISH OPENING PRIOR TO FABRICATION OF DOOR & FINISH OPENING.
- C. DOOR & FRAME SHALL BE SOUND RATED ASSEMBLY WITH A MINIMUM S.T.C RATING OF 43.

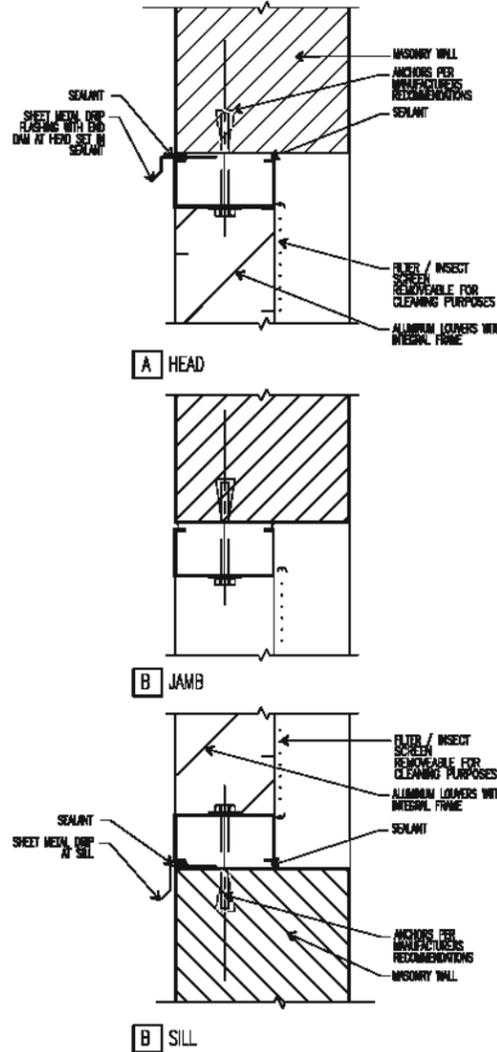
# DOOR TYPES



A  
HOLLOW METAL

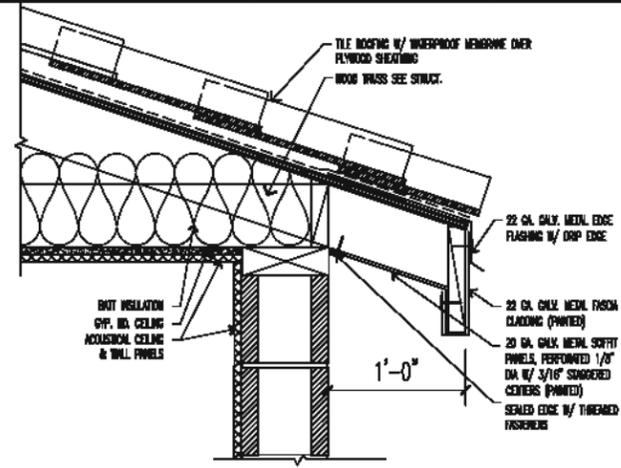


EXTERIOR HOLLOW METAL DOOR 3 7

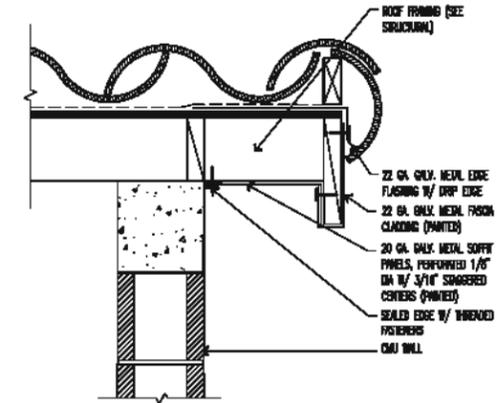


LOUVER 3 6

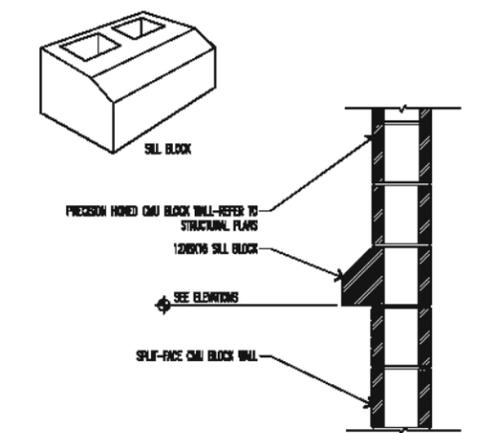
NOTE:  
ALL EXPOSED HARDWARE (NAILS AND FASTENERS) SHALL BE WIND-RESISTANT.



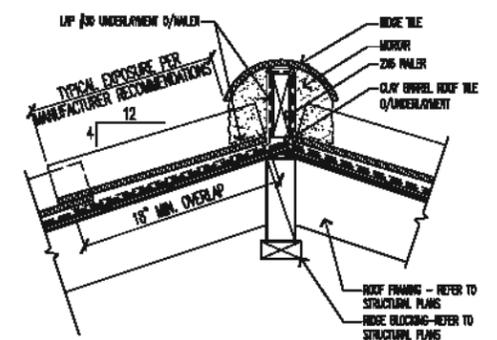
EAVE DETAIL 1 1/2 3



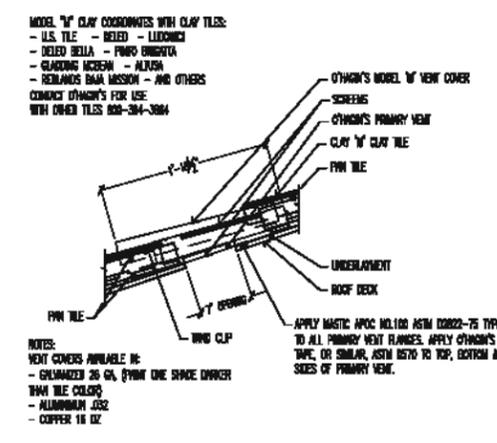
RAKE DETAIL 1 1/2 4



BLOCK DETAIL 1 5



1 1/2 1



O'HAGIN ROOF VENT 1 2

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: RB  
 DRAWN BY: RS  
 CHECKED BY: RB  
 DATE: April, 2012



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PROJECT NO. 2011080

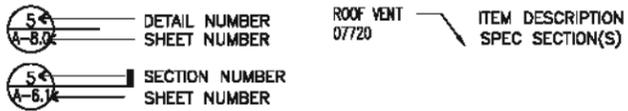
LOS OSOS WASTEWATER COLLECTION SYSTEM  
 ARCHITECTURAL DETAILS & SCHEDULES

PROJECT NO. 42502-83120  
 FILE NAME:  
 SHEET NO.  
 PS-A-001

# GENERAL NOTES

- APPLICABLE CODES AND STANDARDS:**  
 PART 1 2010 CALIFORNIA ADMINISTRATIVE CODE, TITLE 24  
 PART 2 2010 CALIFORNIA BUILDING CODE, TITLE 24  
 PART 3 2010 CALIFORNIA ELECTRICAL CODE, TITLE 24  
 PART 4 2010 CALIFORNIA MECHANICAL CODE, TITLE 24  
 PART 5 2010 CALIFORNIA PLUMBING CODE, TITLE 24  
 PART 6 2010 CALIFORNIA ENERGY CODE, TITLE 24  
 PART 9 2010 CALIFORNIA FIRE CODE, TITLE 24  
 PART 10 2010 CALIFORNIA CODE FOR BUILDING CONSERVATION, TITLE 24  
 PART 11 2010 CALIFORNIA GREEN BUILDING STANDARDS CODE, TITLE 24  
 PART 12 2010 CALIFORNIA REFERENCE STANDARDS CODE, TITLE 24
- ALL WORK DESCRIBED IN THE DRAWINGS SHALL BE VERIFIED FOR DIMENSION, GRADE, EXTENT AND COMPATIBILITY WITH EXISTING SITE/BUILDING CONDITIONS. ANY DISCREPANCIES AND UNEXPECTED CONDITIONS THAT AFFECT OR CHANGE THE WORK DESCRIBED IN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION IMMEDIATELY. DO NOT PROCEED WITH THE WORK IN THE AREA OF DISCREPANCIES UNTIL ALL SUCH DISCREPANCIES ARE RESOLVED. IF THE CONTRACTOR CHOOSES TO DO SO, HE/SHE SHALL BE PROCEEDING AT HIS/HER OWN RISK.
- OMISSIONS MADE IN THESE DRAWINGS AND SPECIFICATIONS OR THE MIS-DESCRIPTION OF THE WORK WHICH IS MANIFESTLY NECESSARY TO CARRY OUT THE INTENT OF THE DRAWINGS AND SPECIFICATIONS, OR WHICH IS CUSTOMARILY PERFORMED SHALL NOT RELIEVE THE CONTRACTOR FROM PERFORMING SUCH OMITTED OR DESCRIBED DETAILS OF THE WORK AS IF FULLY AND COMPLETELY SET FORTH AND DESCRIBED IN THE DRAWINGS AND SPECIFICATIONS.
- DIMENSIONS SHOWN SHALL TAKE PRECEDENCE OVER DRAWING SCALE OR PROPORTION. LARGER SCALE DRAWINGS SHALL TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS.
- REFER TO STRUCTURAL FOR FOUNDATION AND ROOF FRAMING.
- REFER TO MECHANICAL FOR ROOF PENETRATION DETAILS.

# SYMBOLS AND LEGENDS



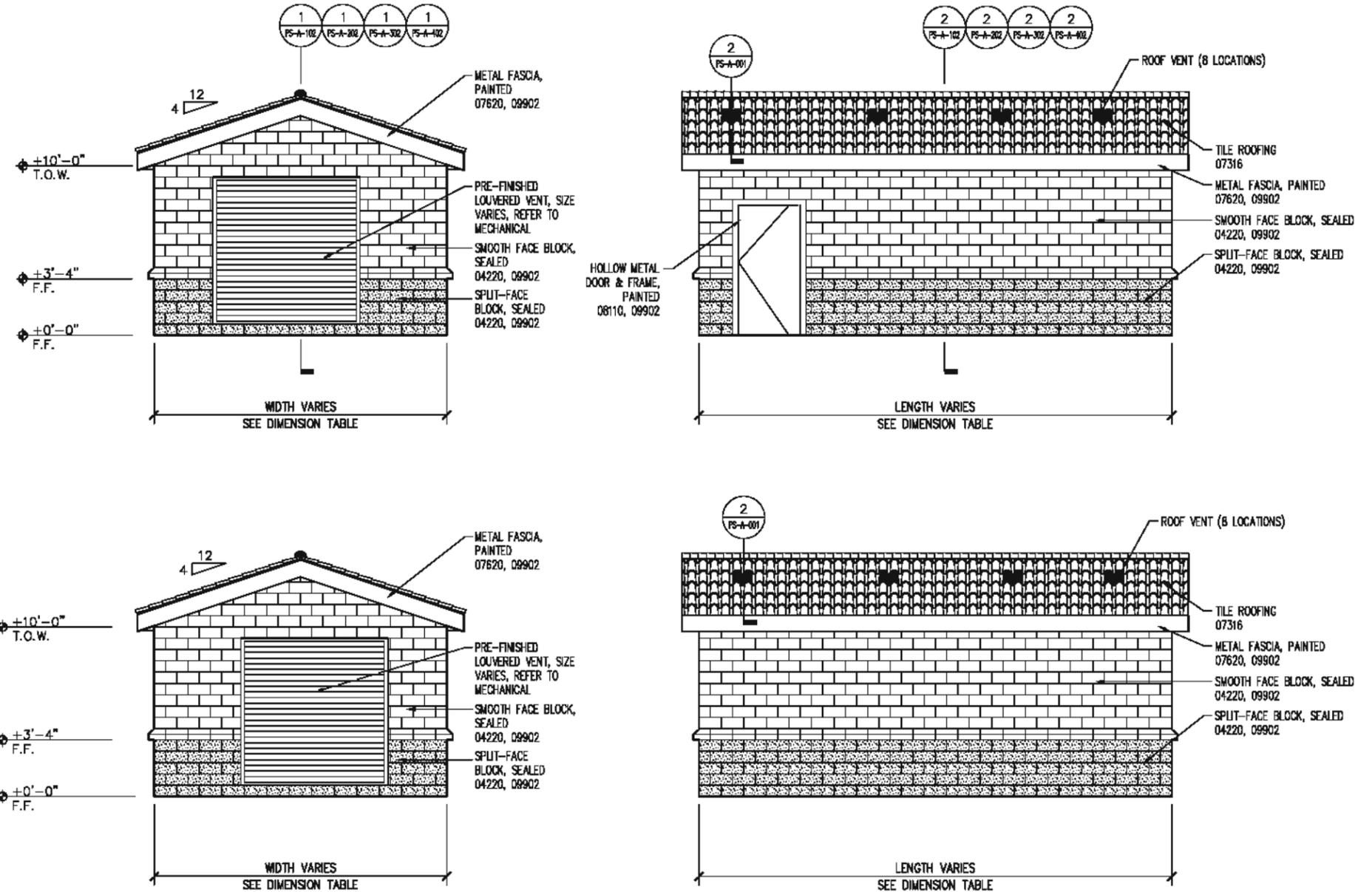
# DIMENSION TABLE

NOTE: VERIFY BUILDING SIZES W/ STRUCTURAL FOUNDATION & FRAMING PLANS

STANDBY POWER FACILITY	LENGTH	WIDTH	ROOFING MAT'L
LUPINE	28'-0"	17'-4"	SPANISH TILE
WEST PASO/BAYWOOD	30'-0"	17'-4"	FLAT TILE
EAST YSABEL	25'-4"	14'-8"	SPANISH TILE
EAST PASO	25'-4"	14'-8"	SPANISH TILE
MOUNTAIN VIEW	28'-0"	17'-4"	SPANISH TILE
SUNNY OAKS	25'-4"	14'-8"	SPANISH TILE
MIDTOWN	28'-0"	17'-4"	SPANISH TILE
SOLANO	25'-4"	14'-8"	SPANISH TILE

# ELEVATIONS

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



REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: RB  
 DRAWN BY: RS  
 CHECKED BY: RB  
 DATE: April, 2012



0 1/2 1  
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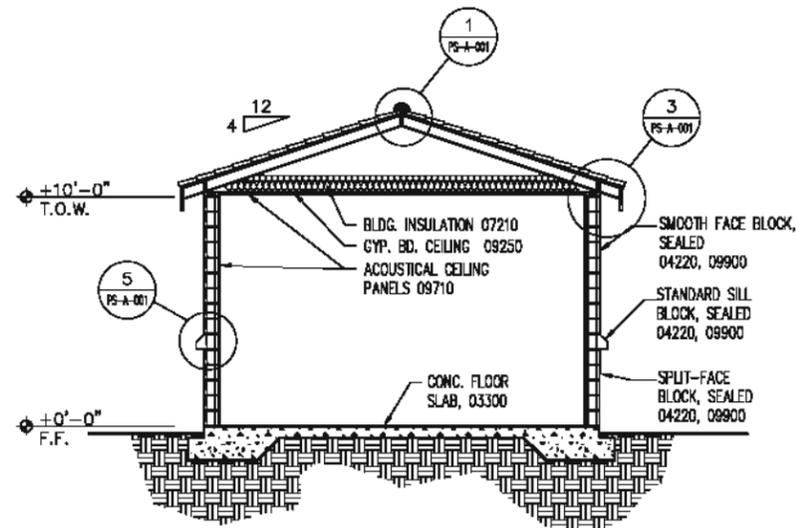


PROJECT NO. 2011080



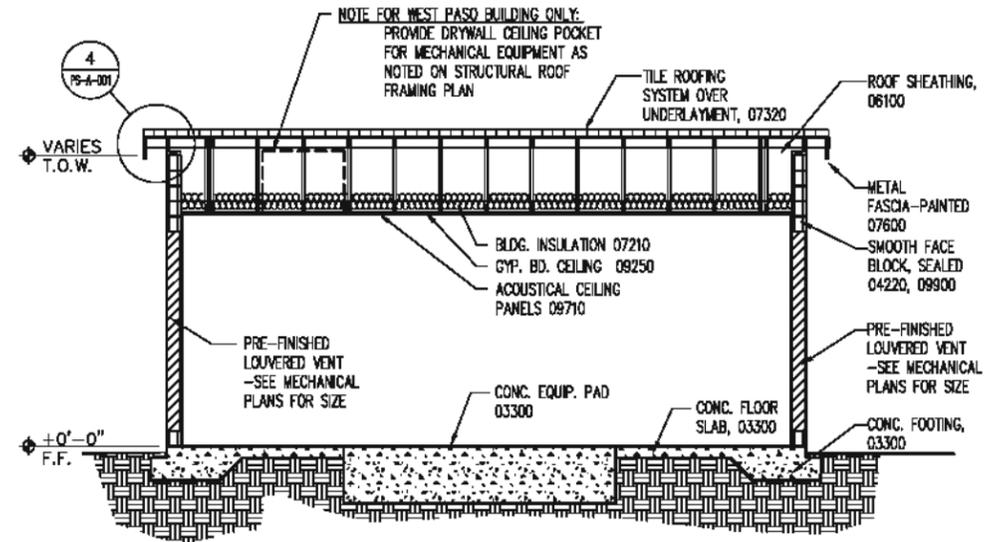
LOS OSOS WASTEWATER COLLECTION SYSTEM  
 STANDBY POWER BUILDINGS  
 ELEVATIONS

PROJECT NO. 42502-83120  
 FILE NAME:  
 SHEET NO.  
 PS-A-002



**SECTION A**

SCALE: 1/4" = 1'-0" **2**



**SECTION B**

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

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: RB  
 DRAWN BY: RS  
 CHECKED BY: RB  
 DATE: April, 2012



0 1/2 1  
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PROJECT NO. 2011080



LOS OSOS WASTEWATER COLLECTION SYSTEM  
**STANDBY POWER BUILDINGS SECTIONS**

PROJECT NO. 42502-83120  
 FILE NAME:  
 SHEET NO.  
**PS-A-003**