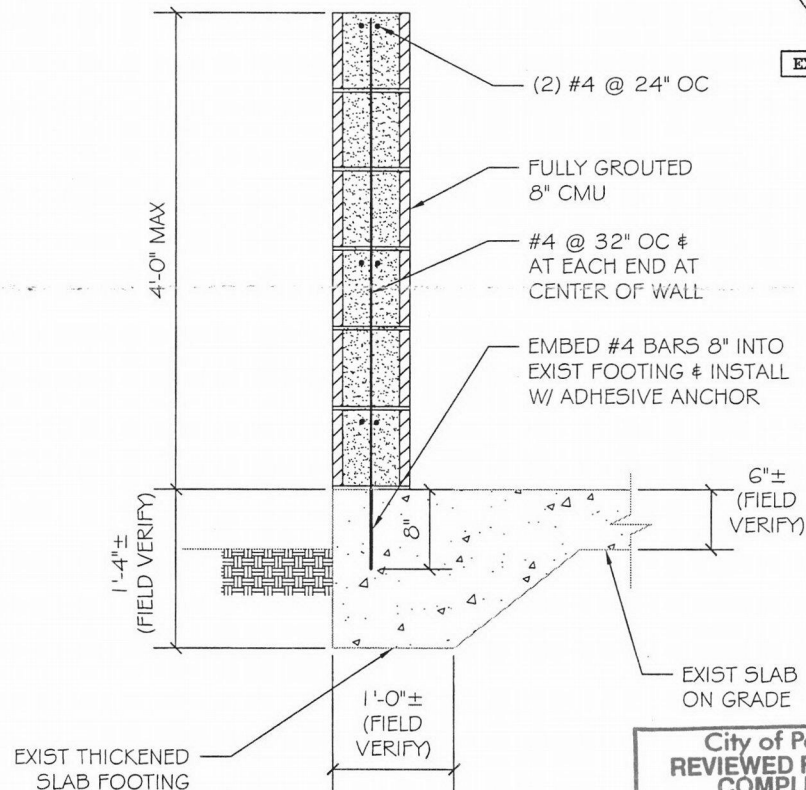


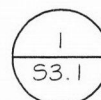
EXPIRES: 6-30-2018



City of Portland  
REVIEWED FOR CODE  
COMPLIANCE

MAR 31 2017

Permit Number



PERIMETER WALL SECTION

SCALE: 1" = 1'-0"

SCALES NOTED ON DRAWINGS ARE FOR 11"x17" SHEET. SCALE ACCORDINGLY FOR DIFFERENT SIZE SHEET.

5137 SW Coronado St  
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PERIMETER WALL FOR  
GEORGIES CERAMIC & CLAY  
824 NE LOMBARD ST  
PORTLAND, OREGON 97211

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	DRAWN BY:	MT
	TSE PROJ. NO.:	17-019
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SHEET TITLE:  
DETAILS

SHEET NO.:  
S3.1

## DESIGN STANDARD

2014 OREGON STRUCTURAL SPECIALTY CODE (OSSC)

### DESIGN CRITERIA FOR NEW CONSTRUCTION, U.N.O.

#### A. GENERAL:

1. BUILDING CATEGORY: II
2. BUILDING HEIGHT: 15 FT

#### C. LATERAL LOADS:

##### 1. WIND DESIGN DATA:

DESIGN SPEED (3-SECOND GUST):  $V = 120$  MPH  
EXPOSURE CATEGORY: B

INTERNAL PRESSURE COEFF:  $G C_{pi} = 0.18$

##### 2. SEISMIC LATERAL LOADS:

SEISMIC DESIGN CATEGORY: D

SEISMIC SITE CLASS: D

SEISMIC COMPONENT CLASS: UNBRACED CANTILEVER WALL

ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE

RESPONSE MOD COEFF:  $R_p = 2.5$

AMPLIFICATION MOD COEFF:  $a_p = 2.5$

EQ IMPORTANCE FACTOR:  $I_e = 1.0$

MAPPED SHORT PERIOD RESPONSE:  $S_s = 0.955$

MAPPED LONG PERIOD RESPONSE:  $S_1 = 0.409$

DESIGN SHORT PERIOD RESPONSE:  $S_{ds} = 0.712$

DESIGN LONG PERIOD RESPONSE:  $S_{d1} = 0.434$

SEISMIC RESPONSE COEFF:  $F_{pu} = 0.3$  (ULT)

#### GENERAL

1. SPECIFICATIONS AND CODES REFERENCED IN THESE NOTES ARE THE VERSIONS MOST RECENTLY ADOPTED BY THE PERMITTING AUTHORITY.
2. VERIFY DIMENSIONS AND ELEVATIONS RELATIVE TO THE EXISTING STRUCTURE PRIOR TO FABRICATION OF MATERIALS.
3. FOR FEATURES OF CONSTRUCTION NOT FULLY SHOWN, PROVIDE THE SAME TYPE AND CHARACTER AS SHOWN FOR SIMILAR CONDITIONS, SUBJECT TO REVIEW BY THE STRUCTURAL ENGINEER OF RECORD.
4. APPLY, PLACE, ERECT OR INSTALL ALL PRODUCTS AND MATERIALS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
5. THE STRUCTURE IS SHOWN ON THE DRAWINGS IN THE FINAL, PERMANENT CONDITION. TEMPORARY SHORING AND BRACING OF THE STRUCTURE DURING INTERMEDIATE CONSTRUCTION STEPS IS THE RESPONSIBILITY OF THE CONTRACTOR.
6. THE STRUCTURAL ENGINEER OF RECORD HAS NO AUTHORITY OR RESPONSIBILITY FOR JOB SITE SAFETY. PROVIDING A SAFE WORK ENVIRONMENT IS THE CONTRACTOR'S RESPONSIBILITY.

### POST-INSTALLED ANCHORS IN CONCRETE

1. INSTALL ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
2. INSTALL WITH IBC SPECIAL INSPECTION ACCORDING TO THE "SPECIAL INSPECTION SCHEDULE" AND THE PRODUCT'S ICC EVALUATION SERVICE REPORT.
3. ADHESIVE ANCHORS:
  - A. ICC-APPROVED
  - B. ACCEPTABLE ADHESIVE ANCHOR SYSTEMS:
    1. "HIT-RE 500 V3", BY HILTI FASTENING SYSTEMS, INC. (REPORT NO. ESR-3814)
    2. "SET-XP", BY SIMPSON STRONG-TIE COMPANY, INC. (REPORT NO. ESR-2508)
    3. "PE1000+", BY POWERS FASTENING COMPANY, INC. (REPORT NO. ESR-2583)

### STRUCTURAL MASONRY

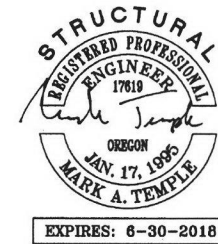
1. PROVIDE & INSTALL MATERIALS ACCORDING TO ACI 530.1-08 ("SPECIFICATIONS FOR MASONRY STRUCTURES")
2. MASONRY UNIT CONSTRUCTION:
  - A. CONCRETE MASONRY UNITS (CMU):
    1. HOLLOW CMU UNITS: TYPE I, LIGHT WEIGHT, 1900 PSI MIN. ON GROSS SECTION, CONFORM WITH ASTM C 90.
    2. NOMINAL UNIT SIZE: 8" x 8" x 16", 2 CELL UNITS
    3. 28 DAY COMPRESSIVE STRENGTH,  $F_m$  OF 1500 PSI.
3. GROUT:
  - A. PORTLAND CEMENT (ASTM C 150)
  - B. 3/8" AGGREGATE (ASTM C 404).
  - C. 28 DAY STRENGTH OF 2500 PSI.
  - D. APPLY SIK A GROUT AID (OR OTHER APPROVED EXPANDING, WATER-REDUCING GROUT AID) AT MANUFACTURER'S RECOMMENDED RATE.
  - E. SLUMP: 8" - 11"
4. STRUCTURAL MASONRY MORTAR:
  - A. TYPE "S". CONFORM WITH ASTM C 270, TABLE 1 (BY PROPORTIONS)
  - B. MORTAR MATERIALS & PROPORTIONS:

CEMENT: 1 PART (ASTM C 150, TYPE II, LOW ALKALI; NO MASONRY CEMENT)

LIME: 1/4 - 1/2 PART (ASTM C 207)

SAND: 2 1/4 - 3 X SUM OF CEMENT + LIME (ASTM C 144)
  - C. PROPORTION MORTAR MATERIALS BY ACCURATE MEASUREMENT. DO NOT USE SHOVEL MEASUREMENT.
  - D. MIX MORTAR BY MECHANICAL MEANS.
5. REINFORCING MATERIAL:
  - A. TYPICAL REINFORCING (U.N.O.): ASTM A 615, GRADE 60.
6. TYPICAL REINFORCING DETAILING (U.N.O.):
  - A. LAP SPLICES:

SIZE	VERT BARS	HORIZ BARS
#4	22"	32"
  - B. CORNERS AND INTERSECTIONS OF WALLS: HORIZONTAL CORNER BARS WITH LEGS EQUAL IN LENGTH TO SPLICE LENGTH SHOWN ABOVE, EQUAL IN SIZE AND NUMBER TO HORIZONTAL REINFORCING.
  - C. ENDS AND INTERSECTIONS OF WALLS: ONE VERTICAL BAR EQUAL IN SIZE TO TYPICAL VERTICAL REINFORCING.
  - D. PROVIDE BAR POSITIONING DEVICES FOR ALL VERTICAL REINFORCING.



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STRUCTURAL MASONRY CONTINUED

7. MASONRY INSTALLATION PROCEDURES:
- INSTALL MASONRY UNITS IN A REGULAR RUNNING BOND PATTERN UNLESS NOTED OTHERWISE ON DRAWINGS.
  - PROVIDE MECHANICAL VIBRATION FOR PLACEMENT AND RECONSOLIDATION OF GROUT.

SPECIAL INSPECTION PROGRAM

- PROVIDE SPECIAL INSPECTION, REPORTING AND COMPLIANCE PROCEDURES ACCORDING TO IBC CHAPTER 17.
- SEE "SPECIAL INSPECTION SCHEDULE" FOR WORK REQUIRING SPECIAL INSPECTION.
- SPECIAL INSPECTOR QUALIFICATIONS: DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION IN QUESTION.
- PRIOR TO THE BEGINNING OF CONSTRUCTION, REVIEW THE SPECIAL INSPECTION REQUIREMENTS WITH THE ARCHITECT, ENGINEER, BUILDING OFFICIAL, CONTRACTOR AND SPECIAL INSPECTORS.
- DUTIES OF THE SPECIAL INSPECTOR INCLUDE, BUT ARE NOT LIMITED TO:
  - OBSERVE THE WORK FOR CONFORMANCE WITH THE APPROVED PERMIT DRAWINGS AND SPECIFICATIONS. BRING DISCREPANCIES TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, TO THE ENGINEER AND TO THE BUILDING OFFICIAL.
  - FURNISH INSPECTION REPORTS FOR EACH INSPECTION TO THE BUILDING OFFICIAL, ENGINEER, CONTRACTOR AND OWNER IN A TIMELY MANNER.
  - SUBMIT A FINAL REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS INSPECTED, AND WHETHER THE WORK IS IN CONFORMANCE WITH THE APPROVED PERMIT DRAWINGS AND SPECIFICATIONS.
- DUTIES OF THE CONTRACTOR INCLUDE, BUT ARE NOT LIMITED TO:
  - NOTIFY SPECIAL INSPECTOR THAT WORK IS READY FOR INSPECTION AT LEAST 24 HOURS BEFORE INSPECTION IS REQUIRED.
  - MAINTAIN ACCESS TO WORK REQUIRING SPECIAL INSPECTION UNTIL IT HAS BEEN OBSERVED AND INDICATED TO BE IN CONFORMANCE BY THE SPECIAL INSPECTOR AND APPROVED BY THE BUILDING OFFICIAL.
  - PROVIDE THE SPECIAL INSPECTOR WITH ACCESS TO APPROVED PERMIT DRAWINGS AND SPECIFICATIONS AT THE JOB SITE.
  - MAINTAIN JOB-SITE COPIES OF ALL REPORTS SUBMITTED BY THE SPECIAL INSPECTOR.



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REQUIRED STRUCTURAL SPECIAL INSPECTIONS					
SYSTEM or MATERIAL	INSPECTION				REMARKS
	IBC CODE REFERENCE	CODE or STANDARD REFERENCE	FREQUENCY		
			Continuous	Periodic	
CONCRETE					
INSPECTION OF ANCHORS INSTALLED IN HARDENED CONCRETE	1909.1 TABLE 1705.3	ACI 318: 3.8.6, 8.1.3, 21.1.8		X	SPECIAL INSPECTIONS APPLY TO ANCHOR PRODUCT NAME, TYPE, AND DIMENSIONS, HOLE DIMENSIONS, COMPLIANCE WITH DRILL BIT REQUIREMENTS, CLEANLINESS OF THE HOLE AND ANCHOR, ADHESIVE EXPIRATION DATE, ANCHOR/ADHESIVE INSTALLATION, ANCHOR EMBEDMENT, AND TIGHTENING TORQUE

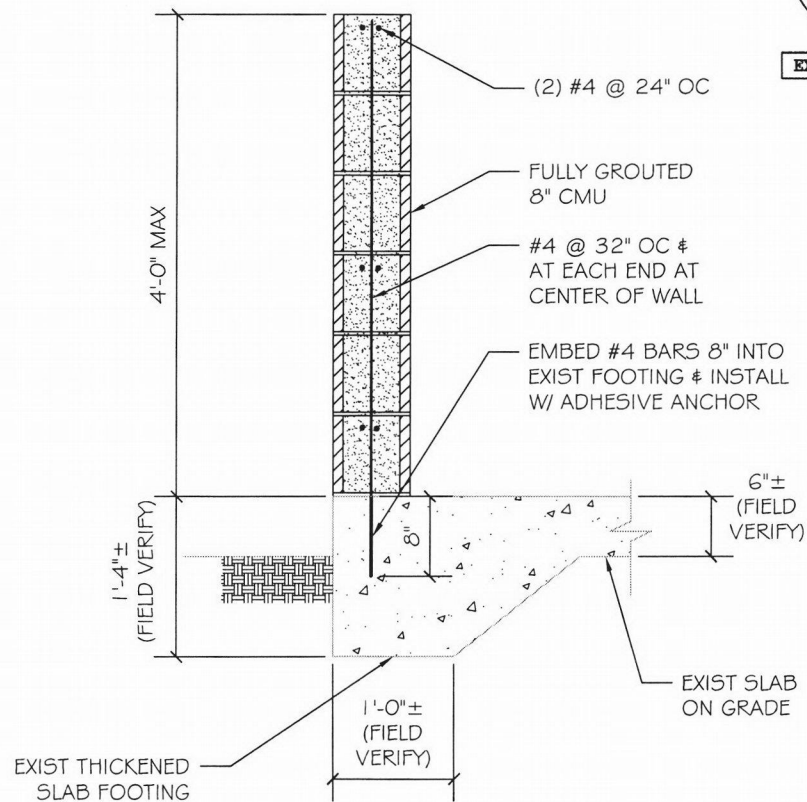
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SCHEDULE

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