BARRY SGARRELLA, Chairman DAVID HUSTON, Trustee JASBIR GILL, Trustee

RECLAMATION DISTRICT NO. 1601 TWITCHELL ISLAND BOARD OF TRUSTEES MEETING TUESDAY, JANUARY 16, 2024 9:00 AM ENGINEER'S REPORT

LINDA CARTER, Secretary JESSE BARTON, Counsel CHRISTOPHER H. NEUDECK, Engineer RICK D. CARTER, Superintendent PERLA TZINTZUN-GARIBAY, Finance

I. PROJECT FUNDING AGREEMENT TW – 21 - 1.2 TIMES PROJECT

A. Review the general status of the drill seed planting progress.

II. DISTRICT EXCAVATOR RECOVERY WITH INSURANCE COMPANY

A. Review outcome of meeting held on Wednesday January 3, 2024, with Insurance Companies Geotechnical expert.

EXHIBIT A: Preliminary Plan of Excavator location in field for plan development of access road construction.

III. SOLAR PROJECT

A. KSN is working to bring Kern Solar under contract (T & M \$9,800) to complete the structural design of the District's Solar Plant.

EXHIBIT B: Current Solar Design Drawings from Panelized Structures Inc.

EXHIBIT C: Kern Solar Sample Carport Solar Array Structural Details

Exhibit A

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Exhibit B

RECLAMATION DISTRICT 1601

TWITCHELL ISLAND FERRY RD. **RIO VISTA, CA. 94571**

365.4kW SOLAR SYSTEM



VICINTY MAP

SHEET INDEX

PV SHEETS

SHEET	DESCRIPTION	# OF #
PV1	COVER SHEET	1 OF 9
PV2	SITE LAYOUT	2 OF 9
PV3	ARRAY LAYOUT	3 OF 9
PV4	ARRAY ELECTRICAL	4 OF 9
-PV5	ARRAY GINGLE LINE	50F9
-PV6	ARRAY STRINGING	-60F9
PV7	MODULE DATASHEET	7 OF 9
PV8	INVERTER DATASHEET	8 OF 9
PV9	CARPORT DATASHEET	9 OF 9

GENERAL NOTE

This building complies with TITLE 24 and the following model codes

2016 California Building Codes (CBC)

CONDITIONS:

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF ALL DIMENSIONS, GRADES AND OTHER JOB SITE CONDITIONS AND SHALL REPORT ANY DISCREPANCIES TO THE DESIGNER OR ENGINEER FOR CLARIFICATION PRIOR TO COMMENCING WORK,

- SITE:

 1 SCRAPE ALL VEGETATION FROM BUILDING LOCATION.

 2. ALL LOAD BEARING FOUNDATIONS SHALL BE PLACED IN UNDISTURBED NATURAL SOIL (OR ENGINEER FILL) O DEPTH SHOWN ON PLANS MINIMUM 12" FOR ONE STORY SNA MINIMUM18" FOR TWO STORY CONSTRUCTION.
- STORY CONSTRUCTION.

 3. ALL FILL MATERIAL SUPPORTING FOUNDATIONS SHALL BE PLACED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRECTICE IN LAYERS NOT TO EXCEED 8 INCHES; WATER SHALL BE ADDED TO EACH LAYER TO OBTAIN REQUIRED COMPACTION AND DENSITY. FILL AND COMPACTION SHALL MEET WITH THE APPROVAL OF THE BUILDING OFFICIAL.

 4. ALL FINISH GRADES AROUND BUILDING SHALL BE DESIGNED TO DRAIN AWAY FROM BUILDING.

 5. NO DRAINAGE TO ADJACENT PROPERTIES.

- CONCRETE:

 1. AL CONCRETE SHALL HAVE A MINIMUM ULTIMATE COMPRENSIVE STRENGTH OF 2500 PSI IN 28 DAYS,

 2. ALL PLACEMENT OF CONCRETE SHALL MEET REQUIREMENTS OF THE CURRENT CBC.

 3. ALL SURFACES TO RECEIVE CONCRETE SHALL BE WATERED DOWN 24 HOURS IN ADVANCE OF POURING CONCRETE.

 4. ALL CONCRETE SURFACES SHALL BE PROTECTED AND CURED IN ACCORDANCE WITH ACCEPTED
- SUILDING PRACTICES.

 5. WHERE AREA OF BARN SLAB EXCEEDS 500 SQUARE FEET, PROVIDE EXPANSION CONTROL JOINTS, ONLY ON NEW CONSTRUCTIONS.

SPECIFICATIONS:
CONCRETE
2500 PSI AT 28 DAYS. TYPE II PCC.
REINFORCING:
ASTM A615-80 GRADE 40 DEFORMED BARS.
STRUCTURAL STEEL:
ASTM A36, OR ASTM A572 GRADE 42, FABRICATED AND ERECTED PER AISC.

2013 CBC CHAPTER 22

ASTEM A33 OR ASTM A501, 2013 CBC CHAPTER 22

MODE FLANGE:

MODE FLANGE:

MODE FLANGE:

ASTM A992

MOOD:

BE/CBC CHAPTER 23 AF&PA NDS-12 & AF&PA NDS-08

STEEL ROOFING:

ASTM A446 GRADE E & OKEN 19ELD.

EXCAVATION, GRADING, AND FILL:

PER 2013 CBC CHAPTER 18

CONSTRUCTION MUST MEET ALL LOCAL, STATE AND FEDERAL HEALTH DEPARTMENT REGULATIONS.





SCALE: - NONE

PROJECT DATA

LOT SIZE:

± ACRES

RECLAMATION DISTRIC 1601 TWITCHELL ISLAND FERRY RD. RIO VISTA, CA 94571

CONSTRUCTION OF NEW 365_4kW SOLAR SYSTEM CONSTRUCTION TYPE:

GOVERNING AGENCY: GENERAL CONTRACTOR:

PROJECT LOCATION:

PANELIZED STRICTURES INC. 5731 STODDARD ROAD MODESTO, CA. 95356

PROJECT NOTES

- Bed 0300 ASSAMS BUT DE 3T WIL BE OUDD WO OREWITE PREPWED AS HOUSED TO MEET AL. TELEMENTS OF THE REPOYED BUDGES ARRAY (\$2.00°C MOST, RECEIVED COMOUS ON THE FALM.)

 2. (DI) MEH (ASSE 7-10) CAREGORY I WAS ZONE, EMPOSER C, 0 PSF SAW LOAD, IN STE ELEMENT CAREGORY CI.

 3. ASSAMED CORRESON CAREGORY CI.

 REVER 2000 ON FARE ARRECT.

PROPOSED SYSTEM SPECIFICATIONS

365 4 kWp (840) HIGH EFF (435) MODULES 10 MODULES/STRING, 84 STRINGS OF PLEAS 16 8 (5048) RNER TERS, 1 PANELEGARDS

RECLAMATION DISTRICT SOLAR PROJECT Job:

CA

RIO VISTA,

Location: REVISION DATE APPROVALS SENT DATE: DRAWN BY: FSD CHECKED BY:

SHEET PV1 OF

COVER SHEET

Job: RECLAMATION DISTRICT 1601 SOLAR PROJECT Location: RIO VISTA, CA.

NO REVISION DATE

APPROVALS SENT DATE

DRAWN BY: ESD

DRAWN BY: ESD
CHECKED BY:
SCALE: NONE
FINAL PLANS DATE:

SHEET PV2 OF

Twitchell Island Ferry Rd. Rio Vista, CA. 94571 365.4kW Solar System

SITE LAYOUT

SCALE: - NONE

Job: RECLAMATION DISTRICT 1601 SOLAR PROJECT Location: RIO VISTA, CA.

O REVISION DATE

EOR DWG DATE:

APPROVALS SENT DATE:

DRAWN BY: ESD
CHECKED BY:

SCALE: NONE
FINAL PLANS DATE:

SCALE: - 1" = 30'-0"

SHEET PV3 OF





RECLAMATION DISTRIC 1601 SOLAR PROJECT Location: RIO VISTA, CA.

EOR DWG DATE: APPROVALS SENT DATE:: DRAWN BY: ESD CHECKED BY:

SCALE: NONE

SCALE: - 1" = 30'-0"

SHEET PV4 OF



Job:

MODULE DATASHEET

CA

SHEET PV7 OF



Helix[™] Roof Compatible Modules

Factory-installed clips enable tool-free panel installation, decreasing installation time and minimizing business disruption.1

More than 20% Efficiency

Captures more sunlight and generates more power than conventional panels.

High Performance

Delivers excellent performance in real-world conditions, such as high temperatures, clouds and low light.^{2,3,5}

Commercial Grade

Optimized to maximize returns and energy production, the E-Series panel is a bankable solution for commercial solar applications.



Maxeon® Solar Cells: Fundamentally better Engineered for performance, designed for reliability

Engineered for Peace of Mind Designed to deliver consistent, trouble-free

energy over a very long lifetime. 45

Designed for Reliability

The SunPower Maxeon Solar Cell is the only cell built on a solid copper foundation. Virtually impervious to the corrosion and cracking that degrade conventional panels.4

#1 Rank in Fraunhofer durability test.10 100% power maintained in Atlas 25+ comprehensive durability test.11

High Performance & Excellent Reliability





SPR-F20-435-COM

High Efficiency

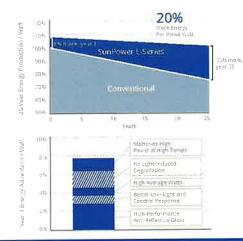
Generate more energy per square foot

E-Series commercial panels convert more sunlight to electricity by producing 31% more power per panel 2 and 60% more energy per square foot over 25 $\,$ years.^{2,3,4}

High Energy Production⁷

Produce more energy per rated watt

More energy to power your operations. High year-one performance delivers 7-9% more energy per rated watt.3 This advantage increases over time, producing 20% more energy over the first 25 years to meet your needs.4





SunPower® E-Series Commercial Solar Pane s | E20-435-COM

More guaranteed power; 95% for first 5 years, -0 4%/yr, to year 25 8

Electric	al Data
	SPR-E20-435-COM
Nominal Power (Pnom)12	435 W
Power Tolerance	+5/-3%
Avg. Panel Efficiency ¹³	20.3%
Rated Voltage (Vmpp)	729 V
Rated Current (Impp)	5.97 A
Open-Orcuit Voltage (Voc)	85.6 V
Short-Circuit Current (Isc)	6.43 A
Max. System Voltage	1000 V UL
Maximum Series Fuse	15 A
Power Temp Coef.	-0.35% / ° C
Voltage Temp Coef.	-235.5 mV / ° C
Current Temp Coef.	2,6 mA / ° C

1. Helix:compatible modules may not be compatible with other racking systems. 2. All comparisons are SPR-E20-327 vs. a representative conventional panel. 250 W, approx. 1.6 m²,

13 sm efficiency.

3 Typically 7–9% more energy per witt, BEV//CNV Engineering "Sun Power Yield Report," Jan 2013

4 Sun Power 0.5% by degradation vs. 1.0% by conv. panel Campeau, Z. et al "Sun Power Module Degradation Rate" Sun Power white paper, Feb 2013, Jordan, Dirk "Sun Power Test Report," NREL 01 2015 5 "SunPower Module 40 Year Useful Life" SunPower white paper, May 2015 Useful life is 99 out of

100 panels operating at more than 70% of rated power 6 Second highest, after SunPower X-Series, of over 3,200 silicon solar panels, Photon Module

Survey, Feb 2014

Survey, Feb 2014

7 B% more energy than the average of the top 10 panel companies tested in 2012 (151 panels, 102 companies), bhoton international, Feb 2013

8 Compared with the top 15 manufacturers SunPower Warranty Review, May 2015

9 Some restrictions and exclusions may apply. See warranty for details

10 5 of top 8 panel manufacturers tested in 2013 report, 3 additional punels in 2014 Ferrara, C., et al. "Faunhofer PV Durability intertive for Solar Modules: Part 2" Photonochus International, 2014.

11 Compared with the non-stress leated control panel Alias 25° burability test proprt, Feb 2013

12 Standard Test Conditions (1000 Wm² Irradiance, AM 1 5, 25° C) NREL calibration Standard

13 Based on average of measured power values during production
14 type 2 fire rating per UL1703 2013, Class C fire rating per UL1703 2002



Combined Power and Product defect 25-year coverage 9

	Tests And Certifications
standard Tests ¹⁴	UL1703 (Type 2 Fire Rating)
Quality Certs	ISO 9001:2008, ISO 14001:2004
EHS Compliance	RoHS, OHSAS 18001:2007, lead free, REACH SVHC-163, PV Cycle
Ammonia Test	IEC 62716
Desert Test	10 1109/PVSC 2013 6744437
Salt Spray Test	IEC 61701 (maximum seventy)
PID Test	Potential-Induced Degradation Free: 1000 V ¹⁰
Available Listings	UL, CEC

Operati	ng Condition And Mechanical Data
Temperature	-40° F to +185° F (-40° C to +85° C)
Impact Resistance	1 inch (25 mm) diameter hail at 52 mph (23 m/s)
Appearance	Class B
Solar Cells	128 Monocrystalline Makeon Gen II
Tempered Glass	High-transmission tempered anti-reflective
Junction Box	IP-65, TE (PV4S)
Weight	56 lbs (25.4 kg)
Max, Load	Wind: 50 psf, 2400 Pa, 244 kg/m² front & back Snow: 112 psf. 5400 Pa. 550 kg/m² front
Frame	Class 2 silver anodized; stacking pins



4 X 398 mm [1 5 7 in] (8) (A) Cable Length 1230 mm +/ 10 mm (C) Crotional Help compatible Chos

Please read the safety and installation guide.

Clips installed on Helix Roof compatible modules only.

Clips are not removable and may not be compatible with non-Helix-branded racking.

Document # 521912 Rev A /LTR_US

FRAME PROFILE

SUNPOWER®

SUNPOWER*

MODULE DATASHEET

Job:

INVERTER DATASHEET

CA

SHEET PV8 OF

SUNNY TRIPOWER CORE 1 33-US / 50-US / 62-US



Fully integrated

- · Insovative design requires so additional tacking for toothop installation
- Integrated DC and AC disconnects and overvoltage protection
- 12 direct string inputs for reduced labor and material costs

- · Multiple power satings for small to large scale commercial PV installations
- . She MPP trackers for therible stringing and maximum power production
- OptiTractik Global Peakshade

Increased power, flexibility

- Enhanced safety, reliability Integrated SenSpec PLC signal for module-level rapid shatdows compliance to 2017 NEC
- Nextgen DC AFCI arc-fault protection cartified to new Standard UL 16998 Ed. 1

- Increased ROI with 5MA enterios cross
- sador energy management platform
- servicing in the field

Smart monitoring, control, service

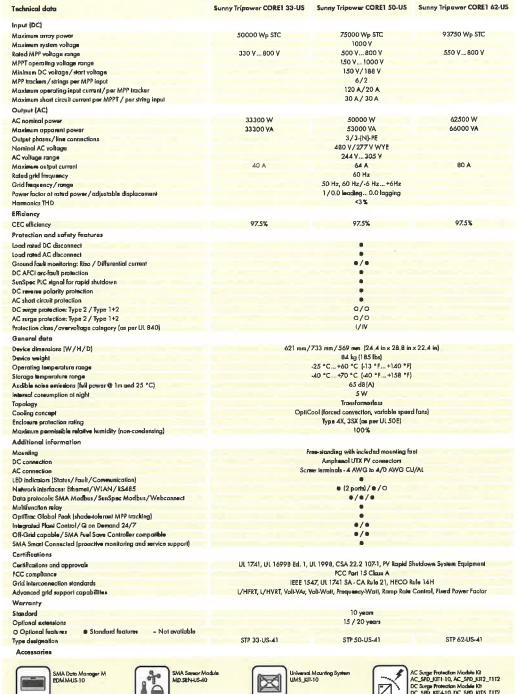
- · Advanced smart towarter grid se pport eapah filips
- SMA5 mart Connected proactive O&M. solution reduces time apent diagnosing and

SUNNY TRIPOWER CORE1 33-US / 50-US / 62-US

It stands on its own

The Sunny Tripower CORE1 is the world's first free-standing PV inverter for commercial rooftops, carports, ground mount and repowering legacy solar projects. Now with expanded features and new power classes, the CORE1 is the most versatile, costeffective commercial solution available. From distribution to construction to operation, the Sunny Tripower CORE1 enables logistical, material, labor and service cost reductions. Integrated SunSpec PLC for rapid shutdown and enhanced DC AFCI arc-fault protection ensure compliance to the latest safety codes and standards. With Sunny Tripower CORE1 and SMA's ennexOS cross sector energy management platform, system integrators can deliver comprehensive commercial energy solutions for increased ROI.

www.SMA-America.com



Toll Free +1 888 4 SMA USA

www.SMA-America.com

SMA America, LLC

INVERTER DATASHEET

SCALE: - NONE

DRAWN BY: ESD

SCALE: NONE FINAL PLANS DATE:

SHEET PV9 OF

SunPower® | Helix™ Carport 1.5

HELIX Carport Structure



Structural Component	Description	Standard Specification	Additional Options
Foundations and Elevated Concrete Pier	Reinforced concrete caisson or spread footing	Elevated concrete pier	Flush-mounted base plates
Columns	Hot rolled structural steel (tube or I-beam)	Hot-dip galvanized	Painted
Crossbeams	Hot rolled structural steel (tapered I-beam)	Hot-dip galvanized	Painted
Purlins and Fascia	C-shaped cold rolled structural steel, fascia included	Galvanized, G-90	Galvanized, up to G-230
Structural Hardware and Assembly	Nuts and bolts (no field welding or field cutting)	A325 and A307	n/a

Mechanical or Grounding Component	Standard Specification
Module mounting	Stainless steel nuts and bolts
Module grounding	WEEBs
Structural equipment grounding conductor (EGC)	Ground braids
Grounding electrode conductor (GEC)	Concrete-encased rebar cage

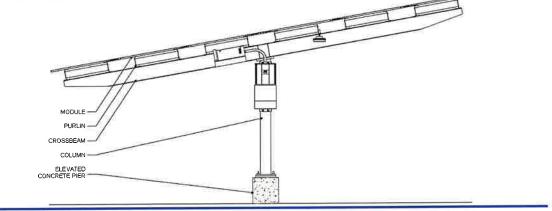
Specsheet

Optional Features: Snow guard, decking, branding

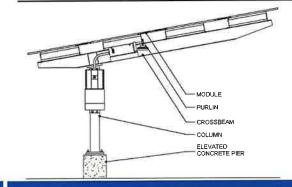


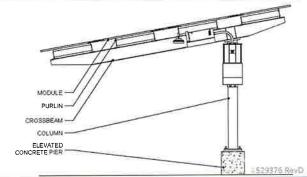
SunPower® | Helix™ Carport 1.5

HELIX Carport Structure



Structural Specifications		
Clearance at drive aisle (south end)	Standard: 11', Optional: 10' to 14'	
Width @ 6 modules up (N–S)	40.2' (footprint on ground)	
@ 5 modules up (N-S)	33.5′	
@ 4 modules up (N-S)	26.8′	
Length	Varies by block; 34.75' minimum (10 modules E–W)	
Column-to-column spacing	34.75′ (typical)	
Cantilever beyond end columns	Up to 12.1'	
Elevated concrete pier diameter	30"	
Elevated concrete pier height	Standard: 30", Optional: 18" to 48" above grade	
Canopy tilt	10 degrees (typical for West Coast) or 7.5 degrees (typical for East Coast)	



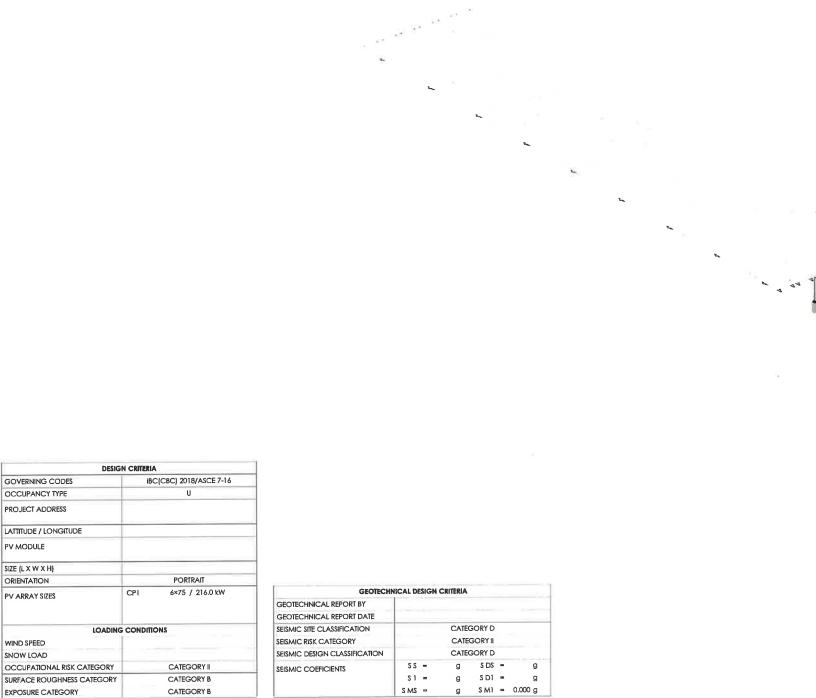


SUNPOWER'

CARPORT DATASHEET

SCALE: - NONE

Exhibit C



STRUCTURAL COVER SHEET	8
	REVISION SCHEDULE

	SHEET INDEX
SHEET	DESCRIPTION
S001	STRUCTURAL COVER SHEET
5002	GENERAL STRUCTURAL NOTES
\$003	GENERAL STRUCTURAL NOTES, CONTINUED
\$100	SITE LAYOUT
S101	CP1 STRUCTURAL VIEWS & BOM
\$102	CP2 STRUCTURAL VIEWS & BOM
\$103	CP3 STRUCTURAL VIEWS & BOM
S200	FOUNDATION DETAILS
\$300	STEEL DETAILS

DESIG	N CRITERIA	
GOVERNING CODES	(BC(CBC) 2018/ASCE 7-16	
OCCUPANCY TYPE	U	
PROJECT ADDRESS		
LATTITUDE / LONGITUDE		
PV MODULE		
SIZE (L X W X H)		
ORIENTATION	PORTRAIT	
PV ARRAY SIZES	CPI 6×75 / 216.0 kW	
LOADING	CONDITIONS	
WIND SPEED		
SNOW LOAD		
OCCUPATIONAL RISK CATEGORY	CATEGORY II	
SURFACE ROUGHNESS CATEGORY	CATEGORY B	
EXPOSURE CATEGORY	CATEGORY B	

GENERAL STRUCTURAL NOTES

- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION, DO NOT SCALE DRAWINGS.
- 2. THE STRUCTURAL ERECTION DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHODS OF CONSTRUCTION THE CONTRACTOR SHALL PROVIDE WHICH ARE REQUIRED TO PROTECT THE STRUCTURE DURING CONSTRUCTION, SUCH MEASURES MIGHT INCLUDE, BUT ARE NOT LIMITED TO BRACING AND SHORING,
- 3. ALL REQUESTS FOR CLARIFICATION (RFC) MUST BE SUBMITTED IN WRITING PRIOR TO PROCEEDING WITH WORK.
- 4. THE ENGINEER OF RECORD SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES.
- 5. ALL DRAWINGS ARE CONSIDERED CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW, CONTROL AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS IN CONNECTION WITH PRE-CONSTRUCTION AND CONSTRUCTION ACTIVITIES.
- 6. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF KERN SOLAR STRUCTURES AND THE ENGINEER OF RECORD IN WRITING PRIOR TO THE INITIATION OF WORK, ALL DISCREPANCIES SHALL BE CLARIFIED IN WRITING BY KERN SOLAR STRUCTURES AND THE ENGINEER OF RECORD PRIOR TO THE CONTINUATION OF WORK.
- 7. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE OR STANDARD REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR EXPENSE.
- B. NOTES AND DETAILS ON APPLICATION / PROJECT SPECIFIC DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND DETAILS.
- 9. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS INCLUDING THE FOLLOWING CODES: LOCAL BUILDING CODE, REGULATING AGENCIES, AUTHORITY HAVING JURISDICTION (AHJ)

CONTRACTOR SUBMITTALS AND SHOP DRAWINGS

- 1. THE CONTRACTOR SUBMITTALS AND SHOP DRAWING ARE INTENDED TO HELP THE STRUCTURAL ENGINEER OF RECORD VERIFY THE DESIGN CONCEPT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CHECK THEIR OWN SHOP DRAWINGS
- 2. THE STRUCTURAL SHOP DRAWINGS WILL BE RETURNED FOR RESUBMITTAL IF A CURSORY REVIEW SHOWS MAJOR ERRORS WHICH SHOULD HAVE BEEN ADDRESSED BY THE CONTRACTOR.
- THE FOLLOWING SUBMITTALS (ALONG WITH SUPPORTING CALCULATIONS)
 ARE REQUIRED FOR STRUCTURAL REVIEW:
- A. REINFORCING STEEL DESIGN INCLUDING FABRICATION DRAWINGS
- B. CONCRETE MIX DESIGN INCLUDING STRENGTH TEST RESULTS
- C. STRUCTURAL STEEL FABRICATION DRAWINGS 4. THE FOLLOWING SUBMITTALS TYPICALLY ARE NOT REQUIRED FOR
- STRUCTURAL REVIEW:
- A. FORMWORK B. STRUCTURAL STEEL MILL REPORTS
- C. SHORING AND BRACING
- 5. SHOP DRAWINGS AND CALCULATIONS SHALL CLEARLY REFERENCE THE DESIGN ASSUMPTIONS USED TO PRODUCE THE SUBMITTAL.
- ALL SUBMITTALS WILL BE PROVIDED IN A DIGITAL FORMAT FOR REVIEW (PREFÉRABLY PDF) BY THE STRUCTURAL ENGINÉER OF RECORD.

STATEMENT OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS

THE FOLLOWING FLEMENTS OF CONSTRUCTION SHALL REQUIRE SPECIAL INSPECTION PER CHAPTER 17 OF THE CURRENT BUILDING CODE UNLESS NOTED OTHERWISE

SPECIAL INSPECTIONS AND TESTING SHALL BE PROVIDED BY AN INSPECTION AGENCY, EMPLOYED BY THE OWNER, AND QUALIFIED BY THE BUILDING OFFICIAL TO INSPECT THE PARTICULAR TYPE OF CONSTRUCTION, TESTS AND INSPECTIONS, AS REQUIRED BY SECTIONS 110 & 1705 OF THE CURRENT IBC, SHALL BE PERFORMED DURING CONSTRUCTION ON THE TYPES OF WORK LISTED BELOW:

CATEGORY	INSPECTION	TESTING
STRUCTURAL STEEL CONSTRUCTION	SECTION 1705/2	SECTION 1705.13
 CONCRETE CONSTRUCTION 	SECTION 1705.3 / TABLE 1705.3	SECTION 1705,3
• SOILS	SECTION 1705 6 / TABLE 1705 6	
 CAST-IN-PLACE DEEP FOUNDATIONS 	SECTION 1705.8 / TABLE 1705.8	

- A. THE SPECIAL INSPECTIONS IDENTIFIED ON PLANS ARE, IN ADDITION TO, AND NOT A SUBSTITUTE FOR, THOSE INSPECTIONS REQUIRED TO BE PERFORMED BY THE GOVERNING JURISDICTION, SPECIALLY INSPECTED WORK WHICH IS INSTALLED OR COVERED WITHOUT THE APPROVAL OF AN INSPECTOR FROM THE GOVERNING JURISDICTION IS SUBJECT TO REMOVAL OR EXPOSURE.
- B, FOR CONTINUOUS INSPECTION, WHEN WORK IN MORE THAN ONE CATEGORY OF WORK REQUIRING SPECIAL INSPECTION IS TO BE PERFORMED SIMULTANEOUSLY, OR THE GEOGRAPHIC LOCATION OF THE WORK IS SUCH THAT IT CANNOT BE CONTINUOUSLY OBSERVED IN ACCORDANCE WITH THE PROVISIONS OF THE CODE, IT IS THE CONTRACTOR'S RESPONSIBILITY TO EMPLOY A SUFFICIENT NUMBER OF INSPECTORS TO ASSURE THAT ALL WORK IS INSPECTED IN ACCORDANCE WITH THOSE PROVISIONS.
- C. THE SPECIAL INSPECTORS MUST BE CERTIFIED BY THE GOVERNING JURISDICTION IN THE CATEGORY OF WORK REQUIRED TO HAVE SPECIAL INSPECTION.
- 1. SOILS INSPECTIONS BY THE SOILS ENGINEER OF RECORD OR THE PROJECT INSPECTOR
- 2. WHEN WAIVED BY THE GOVERNING JURISDICTION

 D. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM THE SPECIAL INSPECTOR OR INSPECTION AGENCY AT LEAST TWO WORKING DAYS PRIOR TO PERFORMING ANY WORK THAT REQUIRES SPECIAL INSPECTION, ALL WORK PERFORMED WITHOUT REQUIRED SPECIAL INSPECTION IS SUBJECT TO REMOVAL
- E. PROVIDE SPECIAL INSPECTION FOR CONNECTIONS BOLTED WITH A325 AND A490 BOLTS. INSPECTIONS SHALL BE DONE PER APPROVED NATIONALLY RECOGNIZED STANDARDS AND THE REQUIREMENTS OF THE CODE AND THE GOVERNING JURISDICTION. WHILE THE WORK IS IN PROGRESS, THE SPECIAL INSPECTOR SHALL DETERMINE THE BOLTS, NUTS, WASHERS AND PAINT: BOLTED PARTS; AND INSTALLATION AND TIGHTENING MEET THE STANDARDS REQUIREMENTS,
- F. THE SPECIAL INSPECTOR FOR HIGH STRENGTH BOLTED CONNECTIONS SHALL:
 - 1. OBSERVE THE CALIBRATION PROCEDURES WHEN SUCH PROCEDURES ARE REQUIRED BY THE PLANS OR SPECIFICATIONS.
 - 2. MONITOR THE INSTALLATION OF BOLTS TO DETERMINE THAT ALL PLIES OF CONNECTED MATERIALS HAVE BEEN DRAWN TOGETHER.
- 3. MONITOR THAT THE SELECTED PROCEDURE IS PROPERLY USED TO TIGHTEN ALL BOLTS. G. THE CONSTRUCTION MATERIALS TESTING LABORATORY MUST BE APPROVED BY THE GOVERNING JURISDICTION, FOR
- TESTING OF MATERIALS, SYSTEMS, COMPONENTS AND, EQUIPMENT.
- H. PERIODIC INSPECTION SHALL OCCUR FREQUENTLY ENOUGH TO INSPECT ALL OF THE INSTALLED ITEMS AND TO
- PERIODICALLY WITNESS THE INSTALLATION OF THE ITEMS. I. THE SPECIAL INSPECTOR SHALL PROVIDE WEEKLY REPORTS AND A FINAL REPORT TO THE STRUCTURAL ENGINEER IN
- ADDITION TO REPORTING REQUIREMENTS OUTLINED IN SECTION 1704.2.4.
- 1. A CERTIFICATE OF SATISFACTORY COMPLETION OF WORK REQUIRING SPECIAL INSPECTION MUST BE COMPLETED AND SUBMITTED TO THE GOVERNING JURISDICTION AND THE STRUCTURAL ENGINEER OF RECORD FOR THE PROJECT.
- K. THE SPECIAL INSPECTOR SHAIL ENSURE THAT ALL DEFICIENCIES NOTED BY THE STRUCTURAL ENGINEER IN STRUCTURAL OBSERVATION REPORTS ARE CORRECTED, SUCH COMPLIANCE SHALL BE REFERENCED IN SPECIAL INSPECTOR REPORT.

STRUCTURAL STEEL

- 1. STRUCTURAL STEEL DESIGN SHALL BE APPROVED AND FABRICATED BY AN AISC APPROVED CONTRACTOR.
- 2. ALL STRUCTURAL STEEL SHALL CONFORM TO THE ASTM DESIGNATION INDICATED BELOW UNLESS OTHERWISE NOTED:

DESCRIPTION	DESIGNATION	COATING / FINISH
W SHAPES - COLUMNS, GIRDERS AND BEAMS	A992-GRADE 50	
BASE PLATES AND CAP PLATES	A572-GRADE 50	HOT DIPPED
STIFFENERS AND MISC. PLATES	A572-GRADE 50, OR A36	GALVANIZED
ANGLES, CHANNELS AND MISC.	A36	PER ASTM A123
HSS SECTIONS	A500-GRADE C	
"C" AND T PURLINS	A653-G90	PRE-GALVANIZED
HIGH STRENGTH BOLTED CONNECTIONS	BOLTS: ASTM A325 NUTS: ASTM A563 WASHERS: F436 TC BOLTS: F1852 TI WASHERS: P959	PRE-GALVANIZED OR STAINLESS STEEL
ANCHOR RODS	F1554-GRADE 36	PRE-GALVANIZED

- 3. THE STRUCTURAL STEEL FABRICATOR SHALL MAINTAIN ALL MANUFACTURERS MATERIAL TEST REPORTS (MTR) FOR ALL STRUCTURAL STEEL MEMBERS.
- 4. THE APPROVED STRUCTURAL STEEL FABRICATOR SHALL EMPLOY DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION CONTROL OF THE WORKMANSHIP AND MATERIALS USED IN FABRICATION, AT COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE BUILDING OFFICIAL STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE PPROVED CONSTRUCTION DOCUMENTS.
- 5. ALL STRUCTURAL STEEL MEMBERS SHALL BE CLASSIFIED AS ARCHITECTURALLY EXPOSED STRUCTURAL STEEL TYPE 3 (AESS 3) AND SHALL BE FABRICATED, FINISHED AND HANDLED PER ANSI/AISC 303-16, CHAPTER 10-AESS 3.
- 6. ALL WELDING TO BE PERFORMED BY WELDERS CERTIFIED TO AWS D1.1 STRUCTURAL WELDING CODE, PER AISC 360 LATEST EDITIONS AND APPROVED WELD PROCEDURES.
- 7. ALL WELDING FILLER MATERIALS SHALL BE APPROVED TO AWS SPECIFICATION AS 20 AND CLASSIFIED TO AWS E7 IT-1.

 8. STRUCTURAL OBSERVATIONS SPECIFIED IN SECTIONS 1, 2 AND 3 OF THE ADJACENT TABLE (STEEL: TESTS AND SPECIAL INSPECTIONS) ARE NOT REQUIRED FOR THIS PROJECT PER BUILDING CODE IF FABRICATION IS COMPLETED BY A FABRICATOR APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION.
- 9. AT COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE OWNER OR OWNER'S AUTHORIZED AGENT FOR SUBMITTAL TO THE BUILDING OFFICIAL STATING THAT WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS
- 10. ALL HIGH STRENGTH BOLTS SHALL BE TIGHTENED TO "SNUG-TIGHT" CONDITION PER AISC 360 SECTION J3.1g AND RCSC SPECIFICATION SECTION 8,1 UNLESS OTHERWISE SPECIFIED.

STEEL: TESTS AND SPECIAL INSPECTIONS				
VERIFICATION AND INSPECTION	TYPE	RESP	REFERENCING STANDARD	
1. VERIFICATION OF STRUCTURAL STEEL MATERIAL				
A. STRUCTURAL STEEL MARKINGS CONFORMING TO AISC 360, CURRENT EDITION	P	St	AISC 360: M5.5	
B. VERIFY MANUFACTURERS MATERIAL TEST REPORTS	P	Si	AISC 360: M5.5	
2. VERIFICATION OF WELD FILLER MATERIALS AND PROCEDURES				
A. VERIFY MARKINGS TO CONFORM TO INDICATED AWS SPECIFICATION	Р	SI	AISC 360: A3.5 AWS A5.20	
B., VERIFY MANUFACTURERS MATERIAL TEST REPORTS OR CERTIFICATE OF COMPLIANCE C. VERIFY WELD PROCEDURE (WPS), WELDER QUALIFICATION AND EQUIPMENT		SI	AISC 360: A3.5 AWS A5.20	
		SI	AISC 360: A3.5 AWS A5.20	
3. VERIFICATION OF WELDING				
A. MULTIPASS WELDS	С	SI	AWS D1, I	
B, SINGLE-PASS WELDS > \$16"	С	SI	AWS D1,1	
C, SINGLE PASS WELDS = \$\(f_0^* \)	Р	SI	AWS D1,1	
4. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS				
A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS		SI	ALSC 360: A3 3, N5.6- RCSC 2.3	
B, VERIFY MANUFACTURERS MATERIAL TEST REPORTS OR CERTIFICATE OF COMPLIANCE		SI	AISC 360: N5.6-1 RCSC 2.1	
C. VERIFY "SNUG-TIGHTEND" CONNECTIONS	Р	SI	AISC 360: M2.5, N5.6	

TEST AND SPECIAL INSPECTIONS KEY

- P (PERIODIC) INDICATES THAT A PERIODIC SPECIAL INSPECTION IS REQUIRED
- C (CONTINUOUS) INDICATES THAT A CONTINUOUS SPECIAL INSPECTION IS REQUIRED
- T (TEST) INDICATES THAT A TEST IS REQUIRED

AUTHORIZED REPRESENTATIVE

- RESPONSIBILITY (PERFORMED BY): SI (SPECIAL INSPECTOR) INDICATES THAT A SPECIAL INSPECTION IS TO BE PERFORMED BY QUALIFIED SPECIAL INSPECTOR
- PL (PROJECT INSPECTOR) INDICATES THAT A SPECIAL INSPECTION IS TO BE PERFORMED BY THE QUALIFIED PROJECT INSPECTOR
- GE (GEOTECHNICAL ENGINEER) INDICATES THAT THE SPECIAL INSPECTION IS TO BE PERFORMED BY A REGISTERED GEOTECHNICAL ENGINEER OR HIS/HER

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GENERAL STRUCTURAL NOTES CONTINUED

FOUNDATION

- CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES, SLICH AS CESSPOOLS, CISTERNS, FOUNDATIONS, ETC., IF ANY SUCH STRUCTURES ARE FOUND, STRUCTURAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY
- 2. CONTRACTOR SHALL REMOVE CONTAMINATED SOILS (WHERE OCCUR) PER THE SOILS REPORT. SOIL REMOVAL AND RECOMPACTION SHALL BE PER THE SOILS REPORT AND APPROVED CONTRACT DOCUMENTS.
- 3. FOUNDATIONS SHALL BE PLACED AND ESTIMATED ACCORDING TO DEPTHS SHOWN ON DRAWINGS, SHOULD SOIL ENCOUNTERED AT THESE DEPTHS NOT BE APPROVED BY THE INSPECTOR OR SOILS ENGINEER, FOUNDATION ELEVATIONS WILL BE ALTERED.
- 4. KEEP EXCAVATIONS FREE OF WATER BEFORE PLACING CONCRETE UNLESS OTHERWISE APPROVED BY THE SOILS ENGINEER, IF UNABLE TO SEAL OFF WATER FLOW, PER THE APPROVAL OF THE SOILS ENGINEER, ALLOW WATER LEVEL TO ATTAIN ITS NORMAL LEVEL AND PLACE CONCRETE BY THE TREMIE METHOD OR OTHER APPROVED METHOD. CONTRACTOR TO PROVIDE FOR DE-WATERING OF EXCAVATIONS FROM EITHER SURFACE WATER, GROUND WATER, OR SEEPAGE, IF REQUIRED.
- 5. EACH BORING FOR THE DRILLED PIER MUST BE INSPECTED BY THE SOILS ENGINEER PRIOR TO PLACING CONCRETE AND REINFORCING STEEL, ADJUST SHAFT LENGTHS UNDER DIRECTION OF THE SOILS ENGINEER AND THE OWNER'S REPRESENTATIVE BASED ON SOIL CONDITIONS AT TIME OF DRILLING,
- 6. PRECAUTIONS SHOULD BE TAKEN DURING THE INSTALLATION OF PIERS TO MINIMIZE THE POSSIBILITY OF CAVING. CLOSELY SPACED PIERS SHOULD BE DRILLED AND FILLED ALTERNATELY, ALLOWING THE CONCRETE TO SET AT LEAST EIGHT HOURS BEFORE DRILLING AN ADJACENT HOLE, PIER EXCAVATIONS SHOULD BE FILLED WITH CONCRETE AS SOON AFTER DRILLING AND INSPECTION AS POSSIBLE.
- 7. PLACE REINFORCING STEEL IN ONE CONTINUOUS UNIT AND ACCURATELY HOLD SECURELY IN FINAL POSITION USING CHAIRS OR SPACERS DURING CONCRETE PLACEMENT.
- 8. AN UNREINFORCED HEIGHT OF 12 INCHES AT THE BOTTOM OF THE SHAFT IS ACCEPTABLE,
- 9. CONSTRUCTION SHALL COMPLY WITH THE REQUIREMENTS OF ACI 336,3R, LATEST EDITION

- 1. REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF CHAPTER 19 OF THE CODE, ASTM A615 (A706 WHERE NOTED ON PLANS), GRADE 60 UNLESS OTHERWISE NOTED, DEFORMATIONS SHALL BE IN ACCORDANCE ACC-A MTZA HTIW
- $\textbf{2.} \ \ \text{BARS SHALL BE CLEAN OF RUST, GREASE, OR OTHER MATERIALS LIKELY TO IMPAIR 80ND, ALL REINFORCING BAR$ BENDS SHALL BE MADE COLD.
- 3. REINFORCING BARS SHALL NOT BE SPLICED UNLESS SPECIFICALLY NOTED ON PLAN AND SHALL CONFORM TO THE
- PROVISIONS OF ACI318, LAP ALL HORIZONTAL BARS AT CORNERS AND INTERSECTIONS.

 4. ALL BARS SHALL BE MARKED SO THEIR IDENTIFICATION CAN BE MADE WHEN THE FINAL IN-PLACE INSPECTION IS
- 5. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH ACI 315.
- 6. COMPLETE AND DETAILED REINFORCING PLACEMENT DRAWINGS SHALL BE PREPARED AND SUBMITTED FOR REVIEW BY THE STRUCTURAL ENGINEER PRIOR TO FABRICATION IN ACCORDANCE WITH SPECIFICATIONS AND APPLICABLE CODES, THESE APPROVED DRAWINGS SHALL BE AVAILABLE ON THE JOB SITE PRIOR TO PLACING OF
- 7, REBAR SPACINGS GIVEN ARE MAXIMUM ON CENTER WHETHER STATED AS "O.C." OR NOT, UNLESS A SPECIFIED
- LENGTH IS GIVEN, ALL REBAR IS CONTINUOUS WHETHER STATED AS "CONT." OR NOT.

 8, MILL TEST REPORTS FOR GRADE 60 BARDS SHALL BE SUBMITTED PRIOR TO PLACEMENT OF CONCRETE.
- 9. MECHANICAL BAR SPLICES (COUPLERS) SHALL BE USED WHERE SPECIFIED ON PLANS. THEY MAY ALSO BE USED AT THE CONTRACTOR'S OPTION IN LIEU OF LAP SPLICES AND WHERE REINFORCING IS SHOWN CONTINUOUS THROUGH BY ACI 318 AND BE ONE OF THOSE LISTED BELOW AND INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS:
- A. HRC 500 SERIES MECHANICAL COUPLERS (ICC ESR-2764)
- B. LENTON A2 SERIES MECHANICAL SPLICES (IAPMO ER-0129)

FOUNDATION TESTS AND SPECIAL INSPECTION	ONS		
VERIFICATION AND INSPECTION	TYPE	RESP	REFERENCING STANDARD
1. SOILS (TABLE 1705.6)			
 A. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY 	Р	GE	ŧ
B. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL	Р	GE	*
C. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE ADN VERIFY THAT SITE HAS BE PREPARED PROPERLY	Р	GE	ž.
2. CAST-IN-PLACE DEEP FOUNDATIONS (TABLE 1705.8)			
A. INSPECT DRILLING OPERATIONS AND MAINTAIN COMLETE AND ACCURATE RECORDS FOR EACCH ELEMENT. B. VERIFY PLACEMENT LOCATIONS, PLUMBNESS, DIAMETER AND DEPTH. VERIFY ADEQUATE END-BEARING STRATA CAPACITY AND PROPER MATERIAL AT DEPTH.		SI	
		SI	*
3. REINFORCING			
INSPECT HEAR STUDS AJ	Р	SI	ACI 318: 20, 25.2, 25.3 26.6.1 - 26.6.3
INSPECT WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A706		SI	ACI 318: 20, 25.2, 25.3 26.6.1 - 26.6.3
C. INSPECT ANCHOR BOLTS AND EMBED PLATES TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE	С	SI	ACI 318: 17.8.2

CONCRETE

- ALL CONCRETE CONSTRUCTION SHALL CONFORM WITH THE CODE AND WITH THE PROVISIONS OF ACI 318
 AND ACI 301.
- 2. CONCRETE MIXES SHALL BE DESIGNED BY A QUALIFIED TESTING LABORATORY AND APPROVED BY THE
- STRUCTURAL ENGINEER. A. MIX DESIGN METHODS (TEST HISTORY OR TRIAL BATCH METHOD) PER THE CODE SHALL BE USED TO
- B. MIX DESIGNS SHALL SATISFY BITHER THE SHRINKAGE CRITERIA OR THE W/C RATIO AND TOTAL WATER CRITERIA.
- 3. PORTLAND CEMENT SHALL CONFORM TO ASTM C-150 TYPE II
- 4 AGGREGATE FOR HARD ROCK CONCRETE SHALL CONFORM TO ALL REQUIREMENTS AND TESTS OF ASTM C33 AND PROJECT SPECIFICATIONS, CONCRETE SHALL BE DESIGNED TO FACILITATE PLACEMENT BY PUMP. EXCEPTIONS MAY BE USED ONLY WITH PERMISSION OF THE STRUCTURAL ENGINEER.
- 5. CONCRETE MIXING OPERATION, ETC. SHALL CONFORM TO ASTM C94.
- 6. SCHEDULE OF STRUCTURAL CONCRETE PERFORMANCE REQUIREMENTS:

PROPORTION CONCRETE SUBMIT MIX DESIGN METHOD DATA.

MEMBER	fc / 28 DAY	MAX W/C	MAX DENSITY
ALL FOOTINGS AND FOUNDATIONS	4000 PSI	0.50	150 PCF

- 7. PLACEMENT OF CONCRETE SHALL CONFORM TO ACL 301 AND PROJECT SPECIFICATIONS, CLEAN AND
- ROUGHEN TO 1/4" AMPLITUDE ALL CONCRETE SURFACES AGAINST WHICH NEW CONCRETE IS TO BE PLACED, B. CONTINUOUS INSPECTION OF CONCRETE SHALL INCLUDE INSPECTION DURING INSTALLATION OF
- REINFORCING STEEL, INSPECTION SHALL BE SCHEDULED SO THAT PLACEMENT OF REINFORCING STEEL CONDUIT, SLEEVES, AND EMBEDDED ITEMS MAY BE CORRECTED PRIOR TO PLACEMENT OF OVERLYING GRIDS OF REINFORCING STEEL,
- 9. FOR CAST-IN-PLACE CONCRETE, THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:

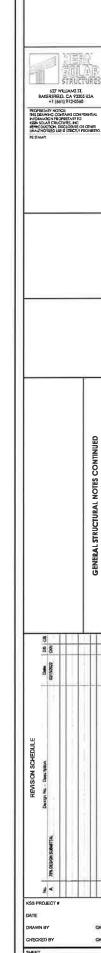
DESCRIPTION	MINIMUM COVER
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3" (±36")
CONCRETE EXPOSED TO EARTH OR WEATHER No. 4 THROUGH No. 18 BAR	2" (±%:1)
CONCRETE EXPOSED TO EARTH OR WEATHER NO. 5 BAR, W31 OR D31 WIRE OR SMALLER	1 10" (±16")
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND	³¼" (±¹¼")

- 10. ALL REINFORCING BARS, ANCHOR BOLTS, AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE
- 11. CONCRETE SHALL BE PUMPED IN PLACE IN 18" TO 24" LIFTS PER ACI RECOMMENDATIONS.
- 12. PIPES OR CONDUITS LARGER THAN 4" DIAMETER SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE EXCEPT WHERE SPECIFICALLY APPROVED BY STRUCTURAL ENGINEER, PIPES OR CONDUITS SHALL NOT DISPLACE OR INTERRUPT REINFORCING BARS, SPACE THE PIPES OR CONDUITS SUCH THAT PROPER CONCRETE PLACEMENT AND CONSOLIDATION IS ACHIEVED.
- 13. FOAM USED AS STAY-IN-PLACE FORMS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 5.8 PSI AT 1% DEFORMATION AND A MINIMUM MODULUS OF 580 PSI PER ASTM D6817.
- 14. PROVIDE MIN 1/4" CHAMFER ON ALL EXPOSED CORNERS UNLESS INDICATED OTHERWISE.
- 15. THE SOLFGST™ SHORING SYSTEM MUST REMAIN INSTALLED 48 HOURS AFTER THE FOUNDATIONS HAVE BEEN CAST OR AFTER CONCRETE REACHES A MINIMUM COMPRESSIVE STRENGTH OF 2000-PSI, WHICHEVER COMES FIRST, BREAK TESTS NOT REQUIRED IF WAITING UNTIL 48 HOURS TO REMOVE SOLFGS™ SHORING SYSTEM

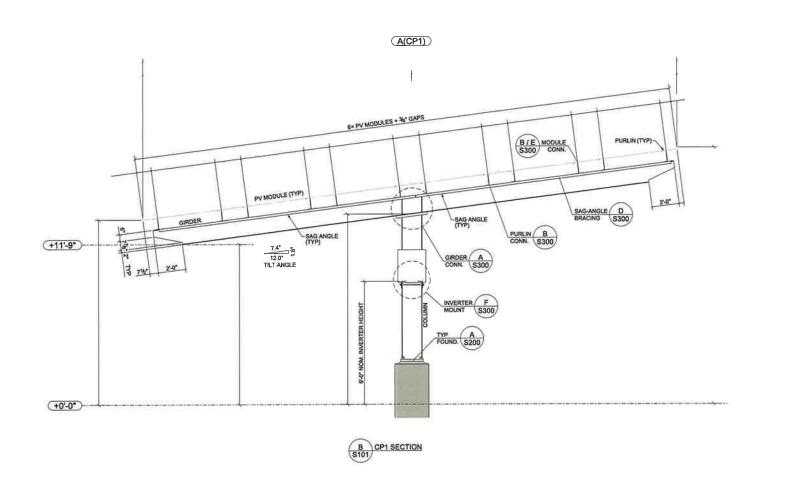
VERIFICATION AND INSPECTION	TYPE	RESP	REFERENCING STANDARD
1. PRE-PLACEMENT INSPECTIONS (TABLE 1705.3)			
A. INSPECT POSITION AND PLACEMENT OF REINFORCEMENT STEEL	С	SI	ACI 318: 26.6
B. INSPECT POSITION OF PLACMENT OF EMBEDED STRUCTURAL STEEL COLUMNS, ANCHOR BOLT ASSEMBLIES, ELECTRICAL CONDUIT AND GROUNDING GRID EMBEDMENTS	C	SI	ACI 318: 26.8-2, 26.11.1.2
C. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS	С	Si	ACI 318: 26.11,1.2
2. CONCRETE PLACEMENT			
A. VERIFY USE OF REQUIRED DEISON MIX	Р	SI	ACI 318: 19, 26.4.3, 26.4.4
B, INSPECT CONCRETE PLACEMENT TECHNIQUES	С	Si	ACI 318: 26.5
C, AT THE TIME CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, RECORD THE FOLLOWING TEST RESULTS OF THE CONCRETE: SLUMP AIR CONTENT TEMPERATURE	С	SI	ACI 318: 26.5, 26.12 ASTM C172 ASTM C31
D. VERIFY SPECIFIED CURING TEMPERATURE AND TECHNIQUES FOR PLACED CONCRETE	P	51	ACI 318: 26.5.3 26.5.5
E. VERIFY IN-SITU CONCRETE STRENGTH PRIOR TO THE REMOVAL O FORMS AND SHORING SYSTEMS	Р	SI	ACI 318: 26,11.2

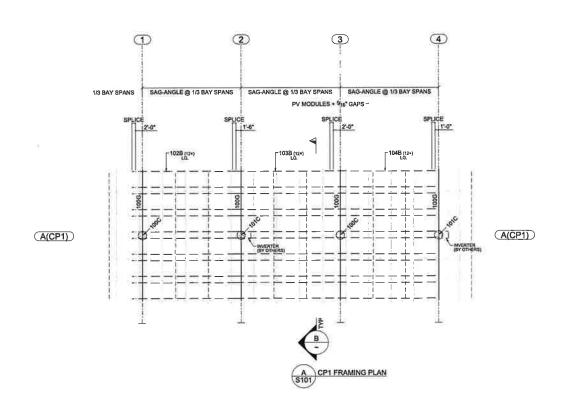
TEST AND SPECIAL INSPECTIONS KEY

- P (PERIODIC) INDICATES THAT A PERIODIC SPECIAL INSPECTION IS REQUIRED
- C (CONTINUOUS) INDICATES THAT A CONTINUOUS SPECIAL INSPECTION IS
- T (TEST) INDICATES THAT A TEST IS REQUIRED RESPONSIBILITY (PERFORMED BY):
- \$1 (SPECIAL INSPECTOR) INDICATES THAT A SPECIAL INSPECTION IS TO BE PERFORMED BY QUALIFIED SPECIAL INSPECTOR
- PI (PROJECT INSPECTOR) INDICATES THAT A SPECIAL INSPECTION IS TO BE PERFORMED BY THE QUALIFIED PROJECT INSPECTOR
- GE (GEOTECHNICAL ENGINEER) INDICATES THAT THE SPECIAL INSPECTION IS TO BE PERFORMED BY A REGISTERED GEOTECHNICAL ENGINEER OR HIS/HER



S003





	BILL OF MATERIALS						
EM IO.	PART NUMBER	SHPPING	PROFILE	DESCRIPTION	LENGTH	MATERIAL	QTY.
STRUC	CTURAL COMPONE	NTS					
i		lxxC	W18X60	COLUMN		GALVANEED PER ASTM A133	
2		1xxG	W18X60	GIRDER		GALVANIZED PER ASTM A123	
а		1xx6	C10X3 50X0 135	CENTER PURLIN		A&S3-G90 PRE-GALV,	
		130%	C10X3 50X0 135	CENTER PURLIN		A653-G90 PRE-GALV	
5		1xx8	C10X3 50X0.135	CENTER PURUN		AASI-G90 PRE-GALV.	
6		1xx8	C10X3 50X0 135	CENTER PURLIN		AASS-G90 PRE-GALV.	
7		1,008	C10X3 50X0 135	CENTER PURLIN		A6S3-G90 PRE-GALV.	
8		1xx8	C10X3 50X0 135	BND PURUN		A6S3-G90 PRÉ-GALV.	
9		1xx8	C10X3.50X0.135	END PURUN		AASJ-G90 PRE-GALV.	
10		1xxT		AB TEMPLATE		A16	
11		1xxdP	BPL1/4"X6"	G-CUP		A36 GALVANZED PER ASTM A123	
12		1xxM	1.6X4X5/16	INV MOUNT	3'-6 1/2"	GALVANIZED PER ASTM A 123	
13		10xx8DUM	28 3/4"X22 1/2"	INVERTER	2'-0 3/4"	A36	
14		1xxtD	L2X2X1/8	SAG ANGLE		GALVANEED FER ASIM AS ES	
STRUC	CTURAL HANDWARE	-	-	-			_
15				HEAVY HEX BOLT 1 1/4°20 x 4 1/2"		A125N GALV.	
16				HEAVY HEX NUT 1 1/4°Ø		AS63 GALV.	
17				FLAT WASHER 1 1/4°00		F436 GALV	
18				HEAVY HEX BOLT 5/8"Ø x 1 3/4"		A325N GALV.	
19				HEAVY HEX NUT 5/8°0		A563 GALV.	
20				FLAT WASHER 5/8"Ø		F436 GALV.	
21				HEX BOLT 1/2"Ø x 1 1/2"		A307 GALV.	
22				HEX NUT 1/2'Ø		AS63 GALV.	
23				FLAT WASHER 1/27Ø		FB44 GALV	
24				HEX BOLT 1/2'Ø x 1 1/4"		A307 GALV.	
25				HEX NUT 1/2'Ø		A\$63 GALV.	
26				RAT WASHER 1/2°Ø		FB44 GALV.	
27				HEX 8OLT 1/2'Ø x 1"		A307 GALV.	
28				HEX NUT 1/2'Ø		A563 GALV.	
\neg				PLAT WASHER 1/27/0		FB44 GALV.	



CP1 STRUCTURAL VIEWS & BOM S101

PRELIMINARY NOT FOR CONSTRUCTION

