

# MURRIETA VALLEY HIGH SCHOOL AUTO LIFT

MURRIETA VALLEY UNIFIED SCHOOL DISTRICT

42200 NIGHTHAWK WAY, MURRIETA, CA 92562

FILE NUMBER: 15-1118  
IDENTIFICATION STAMP  
DIVISION OF THE STATE ARCHITECT  
APP. NO. 04 - 115995 INCR. :  
AC. SL. FLS. JA. SS. DW.  
DATE 05/02/2017

CONSTRUCTION DOCUMENTS

5/2/2017

**BakerNowicki**  
design studio  
731 Ninth Avenue, Suite A  
San Diego, California 92101  
619.795.2450

# MURRIETA VALLEY HIGH SCHOOL AUTO LIFT

## MURRIETA VALLEY UNIFIED SCHOOL DISTRICT

42200 NIGHTHAWK WAY, MURRIETA, CA 92562

### SYMBOLS

NORTH ARROW

ITEM ELEVATION SPOT ELEVATION

ITEM ELEVATION FINISH FLOOR LEVEL

STRUCTURAL GRID LINES

MATCH LINE

DETAIL REFERENCE TAG  
DTL # SHEET NUMBER

BUILDING SECTION TAG  
DTL # SHEET NUMBER

BUILDING ELEVATION TAG  
DTL # SHEET NUMBER

ROOM NAME TAG  
ROOM NUMBER ROOM CEILING HEIGHT

INTERIOR ELEVATION TAG  
DTL # SHEET NUMBER

CONSTRUCTION KEYNOTE  
(SEE LEGEND EACH SHEET)

DEMOLITION KEYNOTE  
(SEE LEGEND EACH SHEET)

### AGENCY REQUIREMENTS

- COMPLIANCE WITH TITLE 24, C.C.R. PARTS 1-6 AND 9.
- TITLE 24, C.C.R. PARTS 1-5 MUST BE KEPT ON SITE DURING CONSTRUCTION.
- ALL ADDENDA MUST BE SIGNED BY ARCHITECT AND APPROVED BY DSA. (SECTION 4-338 (b), PART 1)
- ALL SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS SHALL BE CONSIDERED AS A CHANGE ORDER OR ADDENDA, AND SHALL BE APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION. (IR A-6) (SECTION 4-338(j), PART 1) SUBSTITUTIONS SHALL BE FOR ANY MATERIAL, SYSTEM OR PRODUCT THAT WOULD OTHERWISE BE REGULATED BY DSA.
- THE CHANGE ORDERS(CO) AND FIELD CHANGE DOCUMENTS (PRELIMINARY CHANGE ORDERS) (SECTION 4-338(j)(d), PART 1) MUST BE SIGNED BY ALL THE FOLLOWING:
  - AVE OF RECORD
  - OWNER (CHANGE ORDERS ONLY)
  - STRUCTURAL ENGINEER (WHEN APPLICABLE)
  - DELEGATED PROFESSIONAL ENGINEER (WHEN APPLICABLE)
 AND SHALL BE SUBMITTED TO AND APPROVED BY DSA.
- THE PROJECT INSPECTOR AND TESTING LAB SHALL BE EMPLOYED AND PAID BY THE OWNER AND APPROVED BY ALL OF THE FOLLOWING:
  - AVE OF RECORD
  - STRUCTURAL ENGINEER (WHEN APPLICABLE)
  - DSA
- FOR ALTERATIONS, REHABILITATION OR RECONSTRUCTION AS STATED IN TITLE 24, PART 1 SECTION 4-317(c) OR SIMILAR MEANING; THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NONCOMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE DSA APPROVED DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CONSTRUCTION CHANGE DOCUMENT, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK.

### APPLICABLE CODES

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH:
  - 2016 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, CBSC
  - 2016 CALIFORNIA BUILDING CODE (CBC), PART 2, CBSC (2015 INTERNATIONAL BUILDING CODE & 2016 CALIFORNIA AMENDMENTS)
  - 2016 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, CBSC (2014 NATIONAL ELECTRICAL CODE & 2016 CALIFORNIA AMENDMENTS)
  - 2016 CALIFORNIA MECHANICAL CODE (CMC) PART 4, CBSC (2015 UNIFORM MECHANICAL CODE & 2016 CALIFORNIA AMENDMENTS)
  - 2016 CALIFORNIA PLUMBING CODE (CPC), PART 5, CBSC (2015 UNIFORM PLUMBING CODE & 2016 CALIFORNIA AMENDMENTS)
  - 2016 CALIFORNIA ENERGY CODE, PART 6, CBSC
  - 2016 HISTORICAL BUILDING CODE, PART 8, CBSC
  - 2016 CALIFORNIA FIRE CODE, PART 9, CBSC (2015 INTERNATIONAL FIRE CODE & 2016 CALIFORNIA AMENDMENTS)
  - 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, CBSC
  - 2016 CALIFORNIA REFERENCED STANDARDS, PART 12, CBSC
  - TITLE 8 C.C.R., CH. 4, SUB-CH. 6 - ELEVATOR SAFETY ORDERS
  - TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
- ALL BARRIER FREE ITEMS SHALL COMPLY WITH TITLE 21 AND 24 OF THE CALIFORNIA CODE OF REGULATIONS, 2016.
- ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE REQUIREMENTS OF THESE CODES AND ALL APPLICABLE LOCAL ORDINANCES WHERE CODES CONFLICT, THE MORE STRINGENT SHALL APPLY.
- PROTECTION DURING WELDING: CONFORM TO TITLE 8, C.C.R. FURTHER PROTECT OCCUPANTS AND THE PUBLIC WITH PORTABLE SOLID VISION BARRICADES AROUND LOCATION WHERE WELDING IS BEING PERFORMED. PROVIDE SIGNS WARNING AGAINST LOOKING AT WELDING WITHOUT PROPER EYE PROTECTION OR EQUIVALENT. SEE C.F.C. FOR REQUIREMENTS FOR ON SITE WELDING.
- DURING THE ENTIRE CONSTRUCTION PERIOD, IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN CONDITIONS AT THE PROJECT SITE TO MEET THE REQUIREMENTS OF D.S.A. AND THE CALIFORNIA OCCUPATIONAL REGULATIONS. THIS PROVISION SHALL COVER THE CONTRACTOR'S EMPLOYEES AND ALL OTHER PERSONS WORKING UPON OR VISITING THE SITE. THE CONTRACTOR SHALL BECOME FULLY INFORMED OF ALL APPLICABLE STANDARDS AND REGULATIONS AND INFORM ALL PERSONS AND REPRESENTATIVES RESPONSIBLE FOR WORK UNDER THIS CONTRACT.

### APPLICABLE STANDARDS

NFPA 13	AUTOMATIC SPRINKLER SYSTEMS	2016 EDITION
NFPA 14	STANDPIPE SYSTEMS	2016 EDITION
NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS	2016 EDITION
NFPA 17A	WET CHEMICAL SYSTEMS	2016 EDITION
NFPA 20	STATIONARY PUMPS	2016 EDITION
NFPA 22	WATER TANKS FOR PRIVATE FIRE PROTECTION	2016 EDITION
NFPA 24	PRIVATE FIRE MAINS (CA AMENDED)	2016 EDITION
NFPA 25	INSPECTION, TESTING & MAINTENANCE OF WATER BASED FIRE PROTECTION SYSTEMS	2016 CA EDITION
NFPA 72	NATIONAL FIRE ALARM CODE (CA AMENDED)	2016 EDITION
NFPA 80	FIRE DOOR AND OTHER OPENING PROTECTIVES	2016 EDITION
NFPA 110	EMERGENCY AND POWER STANDBY SYSTEMS	2016 EDITION
NFPA 253	CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS	2013 EDITION
NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2015 EDITION
UL 464	AUDIBLE SIGNAL APPLIANCES	2016 EDITION
UL 521	HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS	1999 EDITION
UL 1424	CABLES FOR POWER-LIMITED FIRE PROT. SIGNALING CIRCUITS	2015 EDITION
UL 1971	SIGNALING DEVICES FOR HEARING IMPAIRED	2002 EDITION

REFERENCE CODE SECTION FOR NFPA STANDARDS - 2016 CBC (SFM) CHAPTER 35

**Statement of General Conformance**  
FOR ARCHITECTS/ENGINEERS WHO UTILIZE PLANS, INCLUDING BY NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS  
(Application No. 04-115995 File No. 33-H18)

All drawings or sheets listed on the cover or index sheet (Civil, Landscape, Structural, Mechanical, Plumbing, Electrical, and Pre-Check Approved drawings).

This drawing, page of specifications/calculations

have been prepared by other design professionals or consultants who are licensed and/or authorized to prepare such drawings in this state. It has been examined by me for:

- design intent and appears to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications prepared by me, and coordination with my plans and specifications and is acceptable for incorporation into the construction of this project.

The Statement of General Conformance "shall not be construed as relieving me of my rights, duties, and responsibilities under Sections 17302 and 81138 of the Education Code and Sections 4-336, 4-341 and 4-344" of Title 24, Part 1, (Title 24, Part 1, Section 4-317 (b))

I find that:  All drawings or sheets listed on the cover or index sheet  This drawing or page

<input checked="" type="checkbox"/> is/are in general conformance with the project design, and	<input type="checkbox"/> is/are in general conformance with the project design, and
<input checked="" type="checkbox"/> has/have been coordinated with the project plans and specifications	<input type="checkbox"/> has/have been coordinated with the project plans and specifications

*Alfred Gessel* 5/2/2017  
Signature Date  
Architect or Engineer designated to be in general responsible charge

ALFRED GESSEL 6-30-2017  
Print Name License Number Exp. Date

*Alfred Gessel* 5/2/2017  
Signature Date  
Architect or Engineer delegated responsibility for this portion of the work

ALFRED GESSEL 6-30-2017  
Print Name License Number Exp. Date

### VICINITY MAP

NOT TO SCALE

### PROJECT DESCRIPTION (SCOPE OF WORK)

STEEL CARPORT STRUCTURE AND AUTOMOTIVE LIFT INSTALLATION, AUTOMOTIVE LIFT RELOCATION, NEW DOOR THRESHOLD AT AUTO SHOP CLASSROOM.

APP NUMBER: 04-115995  
FILE NUMBER: 33-H18

### DEFERRED APPROVAL ITEMS

INSTALLATION OF DEFERRED APPROVAL ITEMS SHALL NOT BE STARTED UNTIL DETAILED PLANS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR ENGINEER WHO HAS BEEN DELEGATED THE RESPONSIBILITY OF COVERING THE WORK SHOWN ON A PARTICULAR PLAN OR SPECIFICATION, AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT. DEFERRED ITEMS SHALL BE COMPLETED PRIOR TO OCCUPANCY OF BUILDINGS AFFECTED BY THE DEFERRED WORK.

DEFERRED APPROVAL ITEMS ARE AS FOLLOWS:  
NONE

THE PLANS AND SPECIFICATIONS SHALL BE STAMPED AND SIGNED BY THE ARCHITECT AND ENGINEER OF RECORD BEFORE SUBMITTAL TO DSA.

### GENERAL NOTES

- CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDA OR A C.C.D. APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, C.C.R.
- A DSA ACCEPTED TESTING LABORATORY, EMPLOYED DIRECTLY BY THE OWNER (DISTRICT) SHALL CONDUCT ALL THE TESTS AND INSPECTIONS FOR THE PROJECT.
- ALL WORK SHALL CONFORM TO 2016 EDITION TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).

### INSPECTOR OF RECORD

INSPECTOR OF RECORD (IOR) OF RECORD SHALL BE EMPLOYED BY THE OWNER AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT (DSA), DUTIES AND REQUIRED IOR CLASSIFICATION PER SECTION 4-342, TITLE 24, PART 1 CCR AND IR A-7; CLASS 2 CERTIFIED BY DSA.

### SHEET LIST

Sheet Number	Sheet Name
G1.0	COVER SHEET
G2.0	TITLE SHEET / SHEET INDEX
G3.0	GENERAL NOTES
G4.0	FIRE ACCESS SITE PLAN
A1.1	OVERALL SITE PLAN
A2.1	FLOOR CEILING AND ENLARGED PLANS
A3.1	ELEVATIONS AND SECTIONS
A9.1	SCHEDULES AND DETAILS
S0.1	GENERAL NOTES
S1.1	DETAILS
S2.1	EQUIPMENT PLAN
MP0.1	MECHANICAL & PLUMBING LEGEND, GENERAL NOTES, AND FLOOR PLANS
E1.0	ELECTRICAL LEGEND AND NOTES
E1.1	ELECTRICAL SITE PLAN
E2.0	TITLE 24 COMPLIANCE FORMS
E2.1	LIGHTING PLAN AND FIXTURE SCHEDULE
E3.1	POWER PLAN
E3.2	PARTIAL ONE-LINE DIAGRAM AND PANEL SCHEDULE
PC S-1	GENERAL NOTES
PC S-2	GENERAL NOTES
PC S-3	FRAMING/FOUNDATION PLAN
PC S-5	ELEVATIONS
PC S-6	CONNECTION DETAILS
PC S-7	FOUNDATION DETAILS
PC S-8	COLUMN & FOOTING SCHEDULE
PC S-9	TESTING & INSPECTION REQUIREMENTS
PC S-10	CONNECTION DETAILS

### PROJECT DIRECTORY

**ARCHITECT**  
BAKERNOWICKI DESIGN STUDIO, LLP  
731 NINTH AVENUE, SUITE A  
SAN DIEGO, CA 92101  
PHONE: (619) 795-2450  
MANAGER: BUDDY GESSEL  
WEB: WWW.BNDESIGNSTUDIO.COM

**STRUCTURAL ENGINEER**  
KNA CONSULTING ENGINEERS  
9931 MURLANDS BLVD.  
IRVINE, CA 92618  
PHONE: (949) 462-3200  
MANAGER: JOSH RANDALL

**ELECTRICAL ENGINEER**  
JOHNSON CONSULTING ENGINEERS  
12875 BROOKPRINTER PLACE, SUITE 300  
POWAY, CA 92064  
PHONE: (858) 679-4030  
MANAGER: MONICA HANSEN

**MECHANICAL ENGINEER**  
DUFOE CONSULTING ENGINEERS  
9665 CHESAPEAKE DRIVE, SUITE 320  
POWAY, CA 92123  
PHONE: (858) 368-9630  
MANAGER: JEFFREY DUFOE

**OWNER**  
MURRIETA VALLEY UNIFIED SCHOOL DISTRICT  
41870 MALBY CT  
MURRIETA, CA 92582  
PHONE: (951) 696-1600

FILE NUMBER: 33-H18

IDENTIFICATION STAMP  
DIVISION OF THE STATE ARCHITECT

APP. NO. 04 - 115995 INCR.:

AC SL FLS JA SS DW

DATE 05/02/2017

### BUILDING CODE ANALYSIS

BLDG	CONSTRUCTION TYPE	OCCUPANCY	SPRINKLERS	WAIVE 1 HR CONSTR. (1)	WAIVE 1 HR CORRIDORS (2)	HEIGHT INCREASE				AREA INCREASE				RATIO	RATIO TOTAL (10)									
						ALLOWABLE STORIES (3)	STORY INCREASE (4)	TOTAL ALLOWABLE	ACTUAL STORIES	ALLOWABLE HEIGHT (3)	HEIGHT INCREASE (4)	TOTAL ALLOWABLE	ACTUAL HEIGHT			FRONTAGE (5) % INCREASE	SPRINKLER (6) % INCREASE	TOTAL ALLOWABLE AREA PER STORY (9)	MULTI-STORY (7) STORIES INCREASE	TOTAL ALLOWABLE	ACTUAL AREA (8)			
II-B	E	No	No	No	No	2	0	2	1	55'	0'	55'	14'	14500 SF	0%	0 SF	0%	0 SF	14500 SF	1	0 SF	14500 SF	900 SF	0.062069

NO. DATE ISSUE PROJECT NO: 13013-00  
DATE: 5/2/2017

DRAWING  
**G2.0**



**LOCAL FIRE AUTHORITY REVIEW**

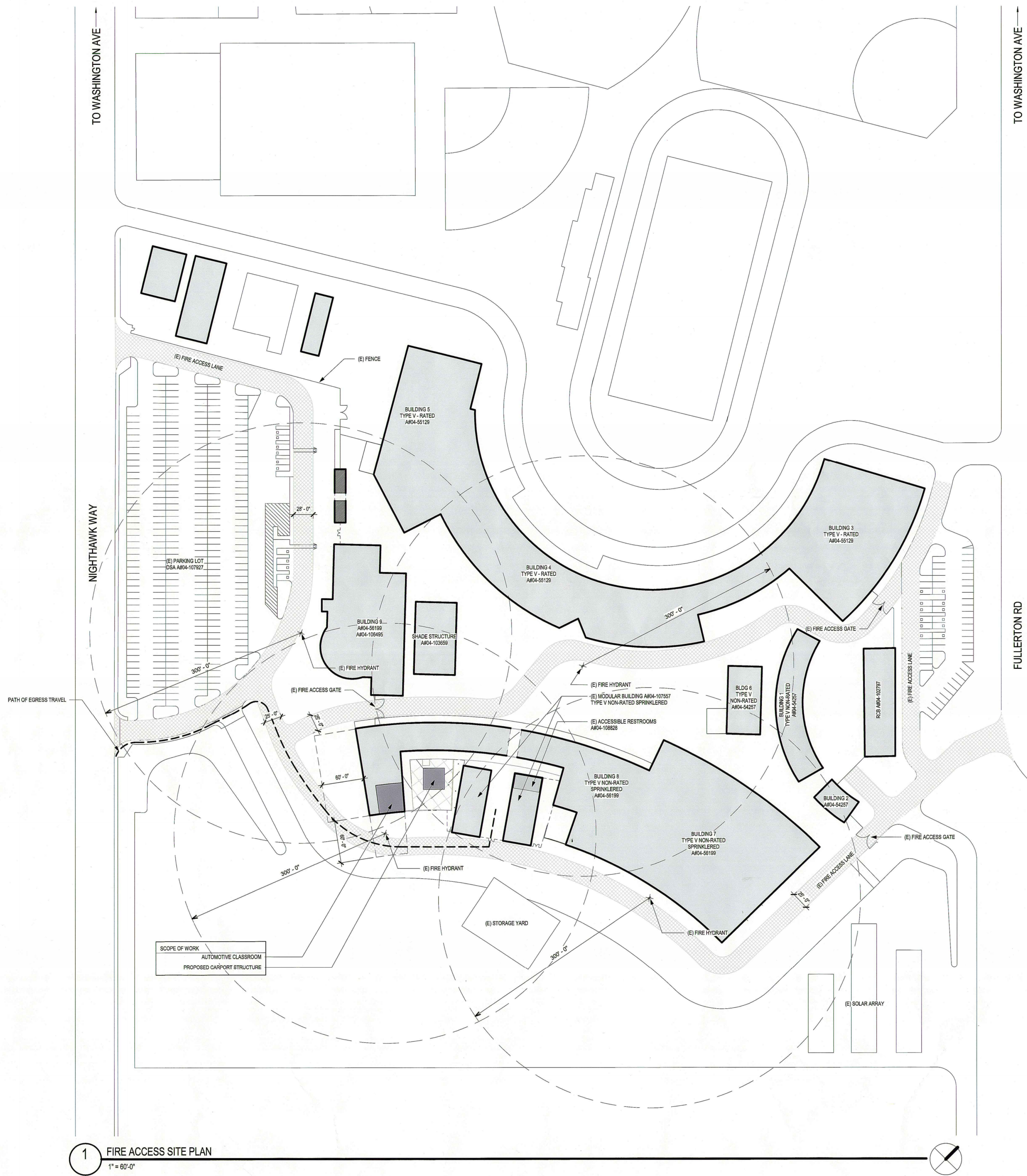
To facilitate the Division of the State Architect's (DSA) approval of the Fire/Life Safety portion of a project, DSA requires Local Fire Authority (LFA) review of certain elements as identified in this form. Use of this form is mandatory for projects that add square footage to a campus or if any item on this form is relevant to the project. For additional information, see DSA 810 Instructions and DSA Policy 09-01.

**PROJECT INFORMATION**  
 School District/Owner: MURRIETA VALLEY UNIFIED SCHOOL DISTRICT  
 Project Name/School: MURRIETA VALLEY HIGH SCHOOL  
 Project Address: 42200 NIGHTHAWK WAY MURRIETA, CA 92562

**LOCAL FIRE AUTHORITY (LFA)**  
 LFA Agency Name: CITY OF MURRIETA FIRE DEPARTMENT (Permit # 17-10150)  
 LFA Reviewer Name: Ralph Steinboff Title: Fire Marshal  
 Email: Telephone Number: (951) 304-3473

I have reviewed and responded to the applicable items for this project as listed below.  
 Note: Only sign this form when it is imaged onto the site plan. A loose form is not acceptable to DSA.  
 LFA Reviewer's Signature: *Ralph Steinboff* Date: 6/24/2017  
 Review Key: *Y* = Complies with LFA requirements "N" = Not approved (complete Section 8)  
 "NA" = Not applicable to the project "NR" = LFA elects not to review

Description	Y	N	NA	NR
1 Where an elevator does not meet medical emergency service cab size, per the California Building Code (CBC), use of stairways for emergency rescue and patient transport is acceptable.				<i>Y</i>
2 Access roads, fire lane markings, pavers and gate entrances are in accordance with Title 19, California Code of Regulations and the California Fire Code, Chapter 5.	<i>Y</i>			
3 Fire hydrant location and distribution complies with the California Fire Code (or see # 4).				
4 Fire hydrant location and distribution complies with NFPA 1142, "Alternate Means." If "NR" is checked, DSA can only approve on-site water storage as an alternate. The signature of the school district official is required to acknowledge the use of alternate means.	<i>Y</i>			
Signature of School District Official: _____ Date: _____				
Print the School District Official's Name: _____				
5 The location(s) of the proposed post indicator valve and fire department connection meet the requirements of this jurisdiction.				<i>Y</i>
6 The location(s) of the detector check valve assembly meet the requirements of this jurisdiction.				<i>Y</i>
7 Is the project located in a hazard severity zone area? (CBC, Chapter 7A, Section 701A.) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Check type if "Yes": <input type="checkbox"/> Moderate <input type="checkbox"/> High <input type="checkbox"/> Very High <input type="checkbox"/> WIFA (If one of these boxes is checked, the project design must meet the requirements of Chapter 7A.)				
COMMENTS (note deficiencies):				



FILE NUMBER: 13-1418  
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 AC SL FLS JA SS DW  
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 DIVISION OF THE STATE ARCHITECT  
 OFFICE OF REGULATION SERVICES  
 APPL #  
 AC FLS SS  
 DATE

**FIRE ACCESS SITE PLAN**

NO. DATE ISSUE PROJECT NO: 13013-00  
 DATE: 2/6/2017

DRAWING  
**G4.0**

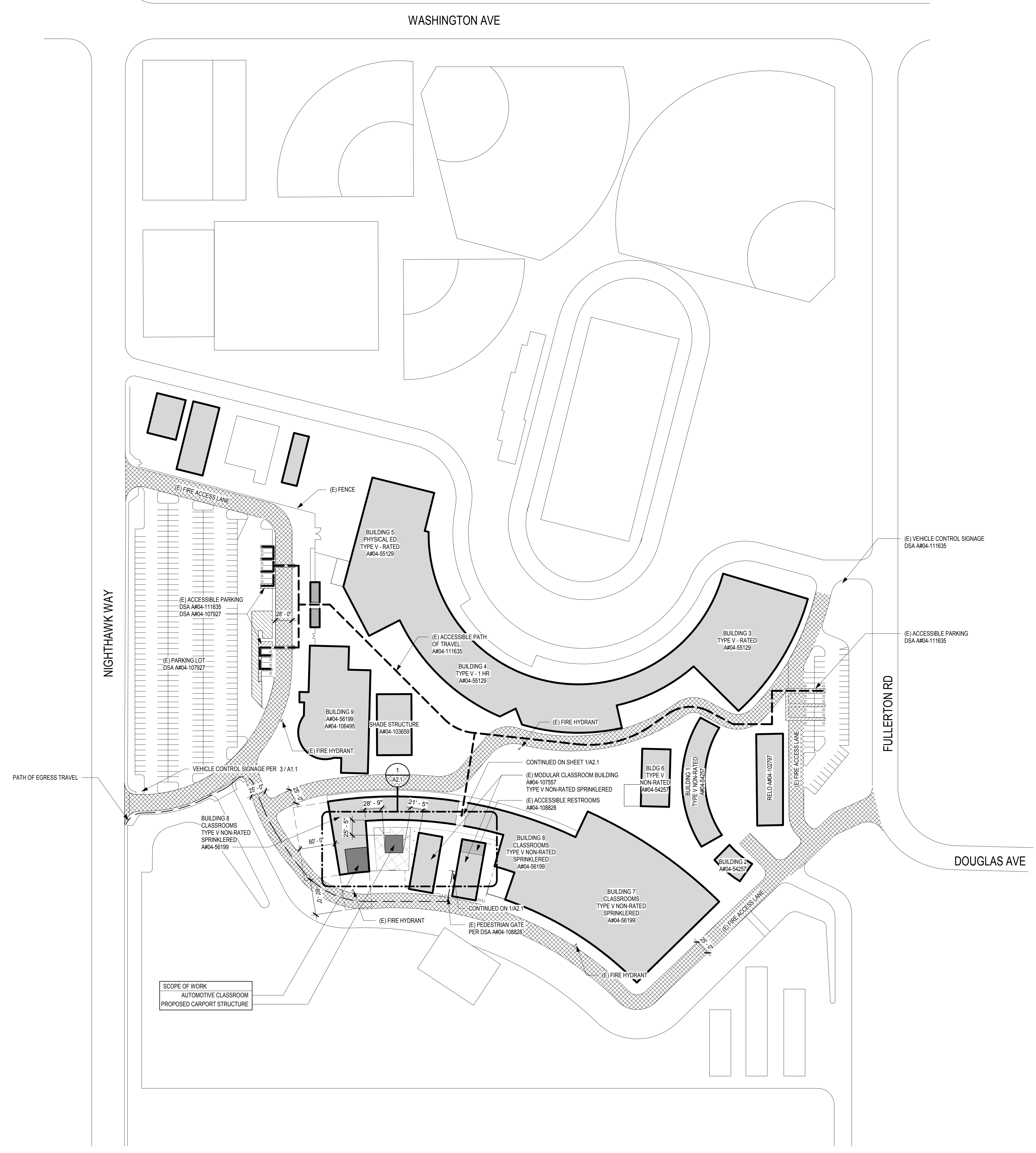
**1 FIRE ACCESS SITE PLAN**  
 1" = 60'-0"

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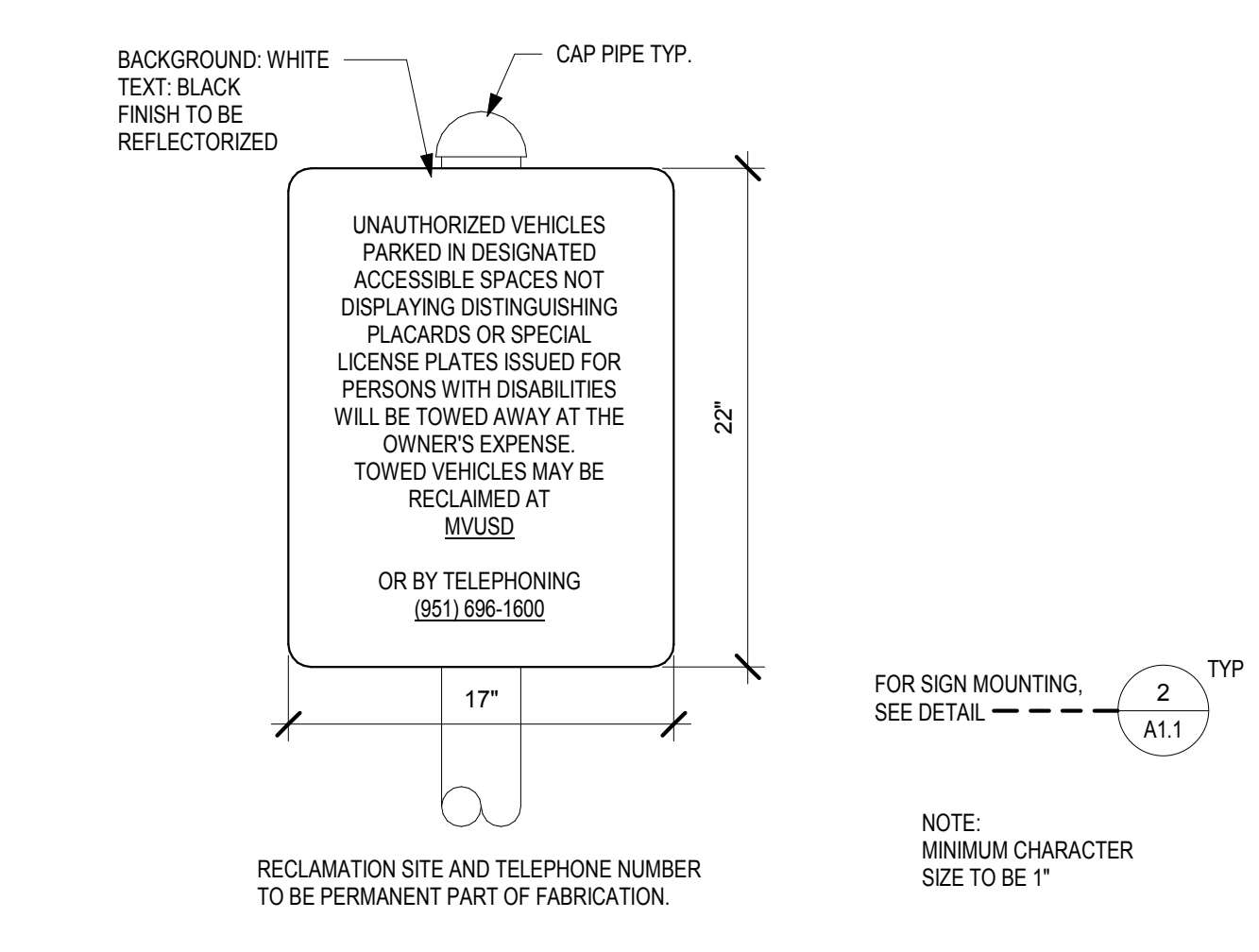
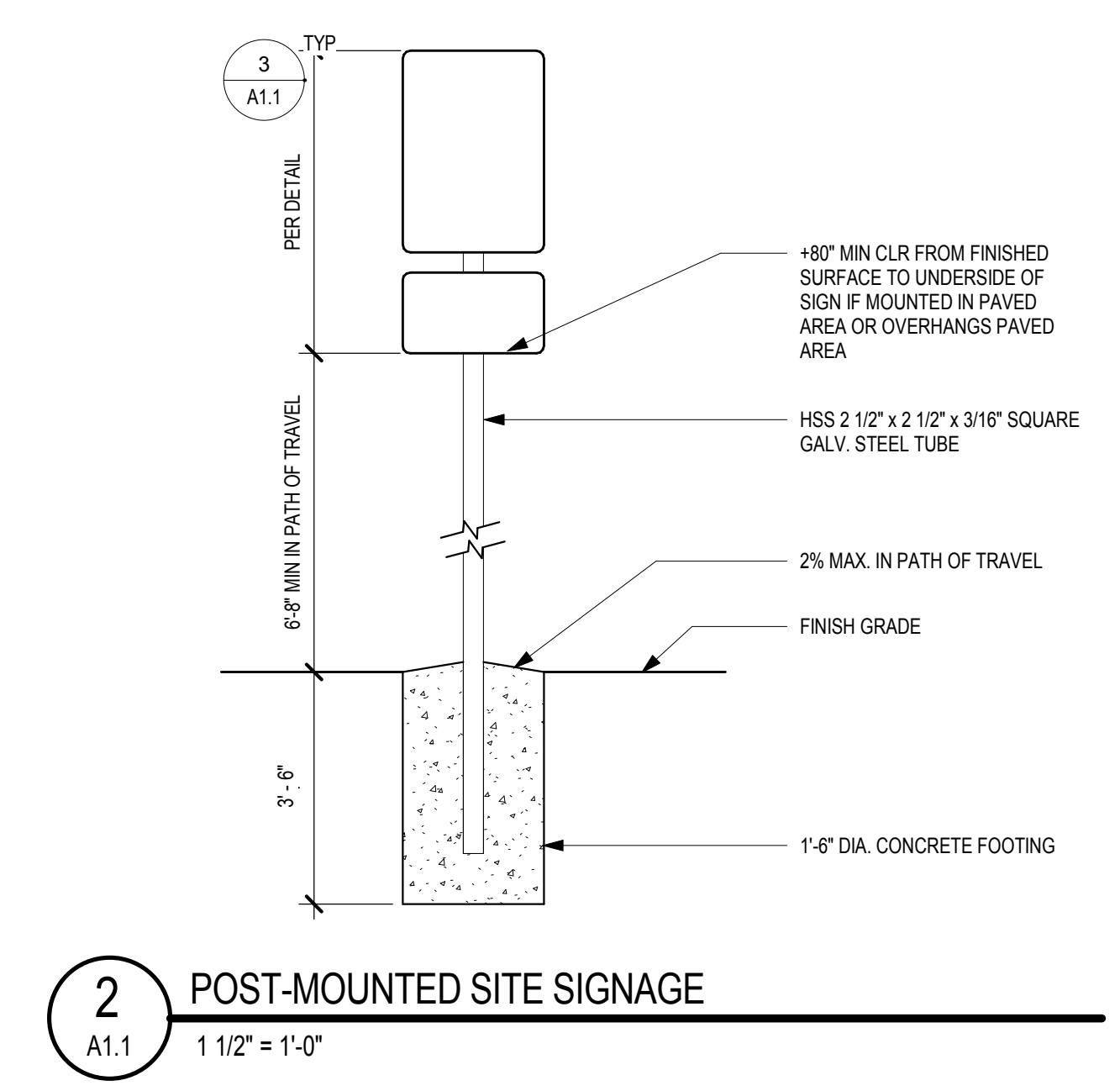
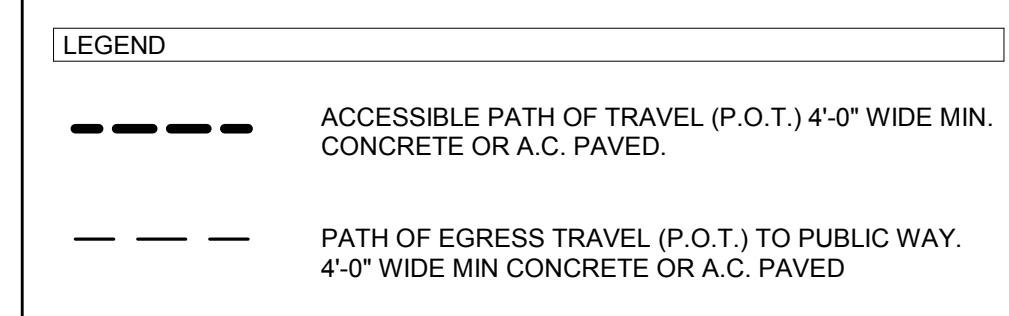
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17-10450

MURRIETA VALLEY UNIFIED SCHOOL  
DISTRICT  
MURRIETA VALLEY HIGH SCHOOL  
AUTO LIFT



- ACCESSIBILITY NOTES**
- DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: THE P.O.T. IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE P.O.T. WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WERE DETERMINED TO BE NONCOMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOP OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OR UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS. DURING CONSTRUCTION, IF P.O.T. ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS PART OF THE PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.
  - PATH OF TRAVEL (P.O.T.) AS INDICATED IS A BARRIER FREE ACCESS COMPLYING WITH THE FOLLOWING: CHANGES IN LEVEL UP TO 1/4" MAX. SHALL BE PERMITTED TO BE VERTICAL AND WITHOUT EDGE TREATMENT (11B-303.2). CHANGES IN LEVEL BETWEEN 1/4" AND 1/2" MAX. SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2 (11B-303.3). SURFACE SHALL BE STABLE, FIRM AND SLIP RESISTANT (11B-302.1). THE RUNNING SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:20 AND THE CROSS SLOPE SHALL NOT BE STEEPER THAN 1:48 (11B-403.3). THE CLEAR WIDTH OF WALKING SURFACES SHALL BE 48" (WITH EXCEPTIONS) (11B-403.5.1). OBJECTS WITH LEADING EDGES MORE THAN 27" AND NOT MORE THAN 80" ABOVE THE FINISH FLOOR OR GROUND SHALL PROTRUDE 4" MAXIMUM HORIZONTALLY IN THE THE CIRCULATION PATH (11B-307.2). CONTRACTOR AND ARCHITECT TO VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED OR WILL BE REMOVED UNDER THIS PROJECT, AND PATH OF TRAVEL COMPLIES WITH CBC 11B.
  - FOR GRATINGS OR STRAINERS LOCATED IN THE SURFACE OF ANY PEDESTRIAN WAY OR IN P.O.T., THE MAXIMUM GRATE OR STRAINER OPENINGS SHALL NOT EXCEED 1/2" IN THE DIRECTION OF TRAFFIC FLOW.
  - MANEUVERING CLEARANCES AREA AT ALL ACCESSIBLE GATES SHALL HAVE 2% MAX. SLOPE IN ALL DIRECTIONS WITHIN DASHED BOUNDARY. PER CBC FIG. 11B-404.2.4.1.



**1 SITE PLAN-OVERALL**  
1" = 80'-0"

**3 VEHICLE CONTROL SIGNAGE**  
A1.1 1 1/2" = 1'-0"

**OVERALL SITE PLAN**

NO.	DATE	ISSUE	PROJECT NO.	13013-00
			DATE:	5/2/2017

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MURRIETA VALLEY UNIFIED SCHOOL DISTRICT  
MURRIETA VALLEY HIGH SCHOOL  
AUTO LIFT

KEYNOTES

GENERAL NOTES

FLOOR PLAN LEGEND

- ACCESSIBLE PATH OF TRAVEL (P.O.T.) 4'-0" WIDE MIN. CONCRETE OR A.C. PAVED. SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION ON MATERIAL, SLOPES AND ELEVATIONS.
- PATH OF EGRESS TRAVEL 4'-0" WIDE MIN. DISCHARGE TO PUBLIC WAY.
- BUILDING OCCUPANCY
- CUMULATIVE OCCUPANCY
- EXITING OCCUPANTS
- FIRE EXTINGUISHER ON HOOK
- SURFACE-MOUNTED FIRE EXTINGUISHER CABINET SEE 10/A8.1 FOR MOUNTING HEIGHTS - 104413 & 104416
- DOOR/GATE NUMBER - SEE A9.1 FOR SCHEDULE

CEILING LEGEND

- EXPOSED METAL DECK

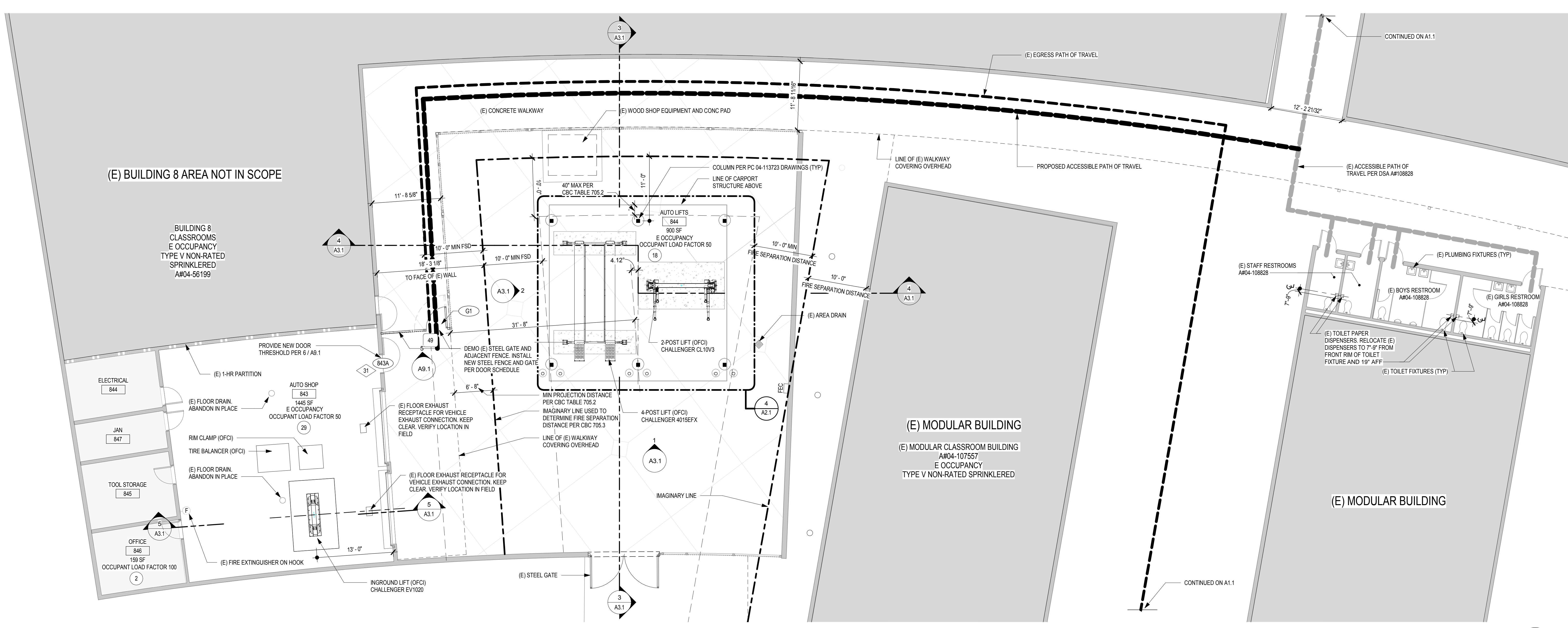
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OFFICE OF REGULATION SERVICES  
APPL # 04-115995  
AC FLS SS \_\_\_\_\_  
DATE: \_\_\_\_\_

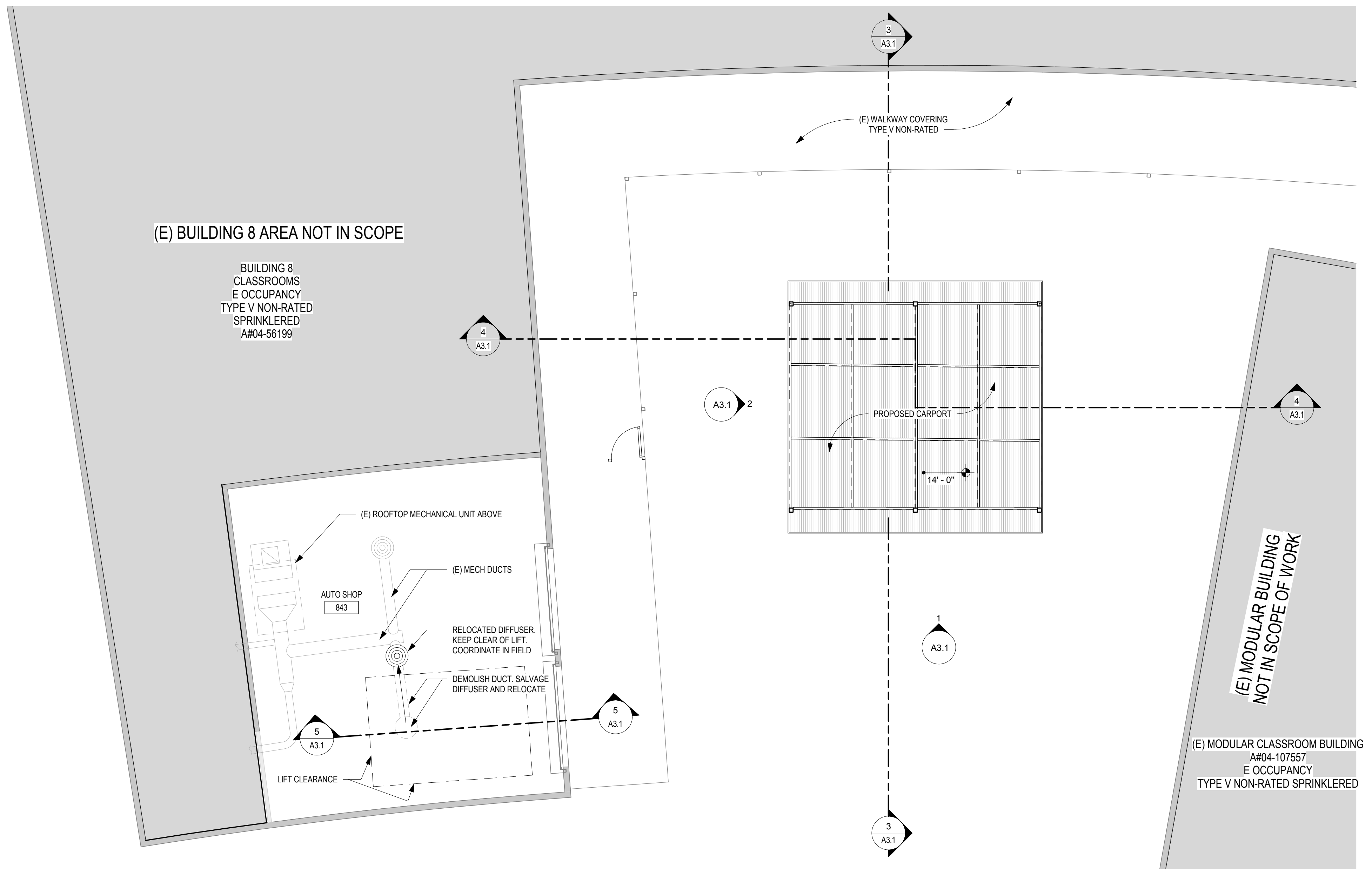
BUILDING ID  
FLOOR CEILING AND  
ENLARGED PLANS

NO. DATE ISSUE PROJECT NO. 13013-00  
DATE: 5/2/2017

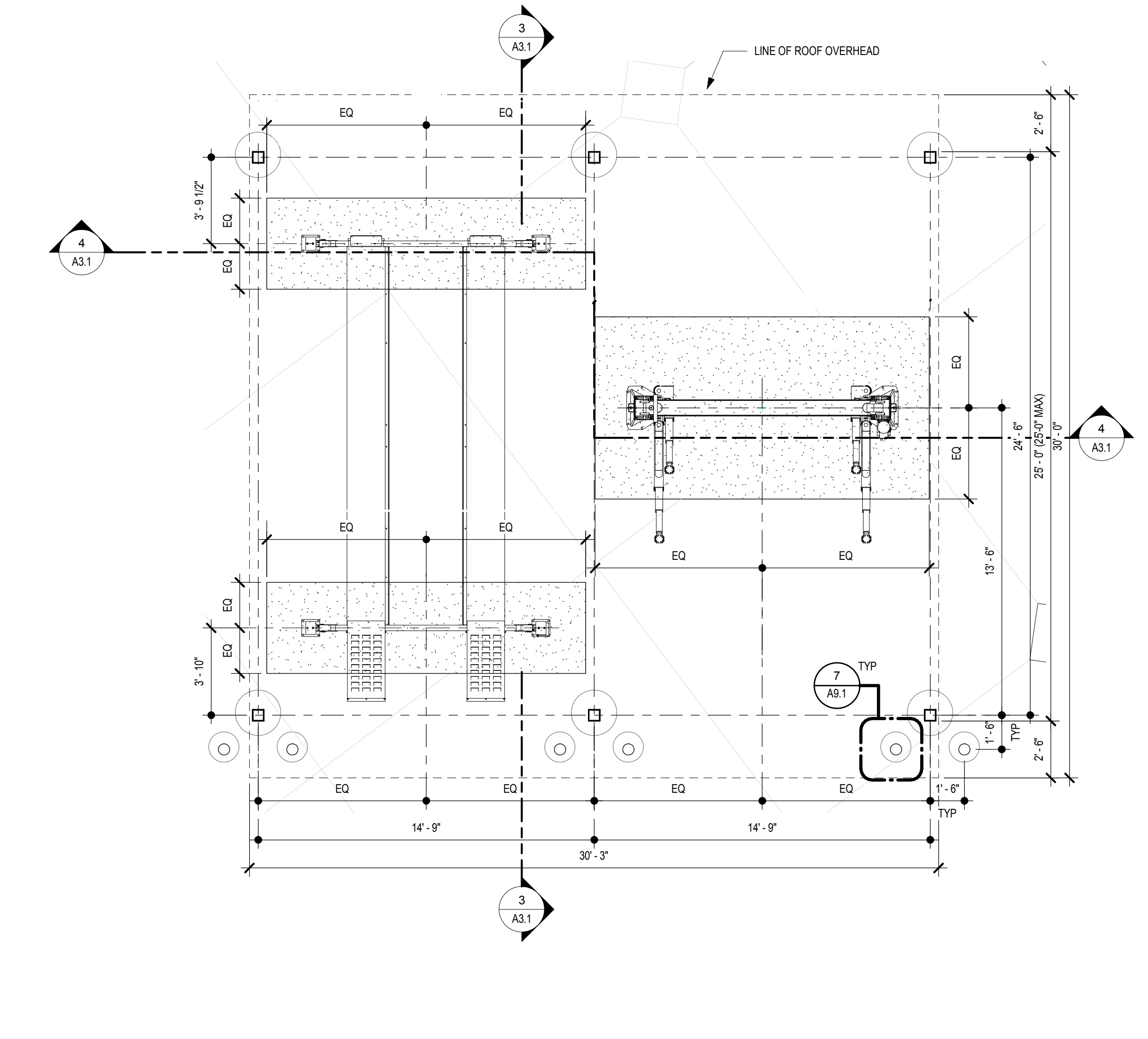
DRAWING  
A2.1



**1** FLOOR PLAN  
A1.1 1/8" = 1'-0"

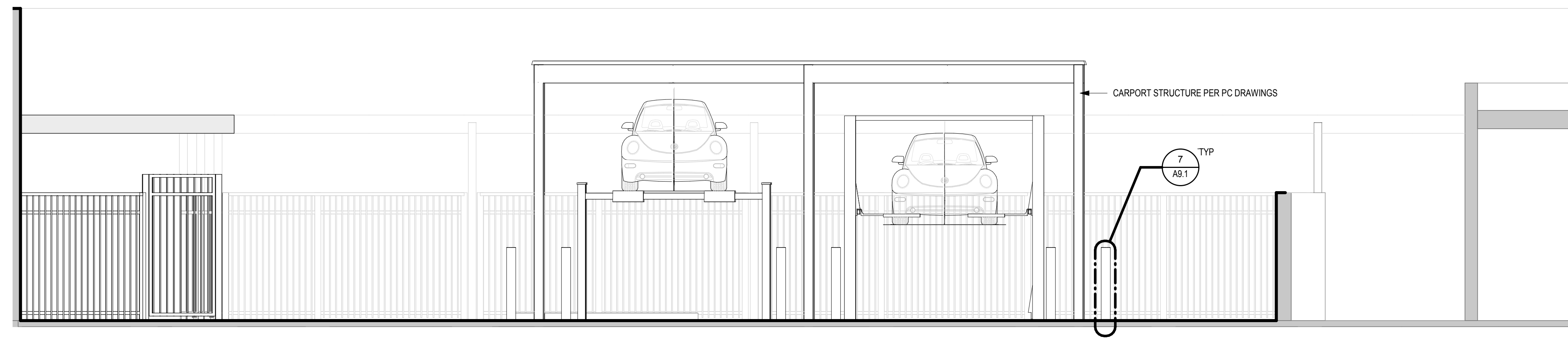


**2** CEILING PLAN  
A1.1 1/8" = 1'-0"

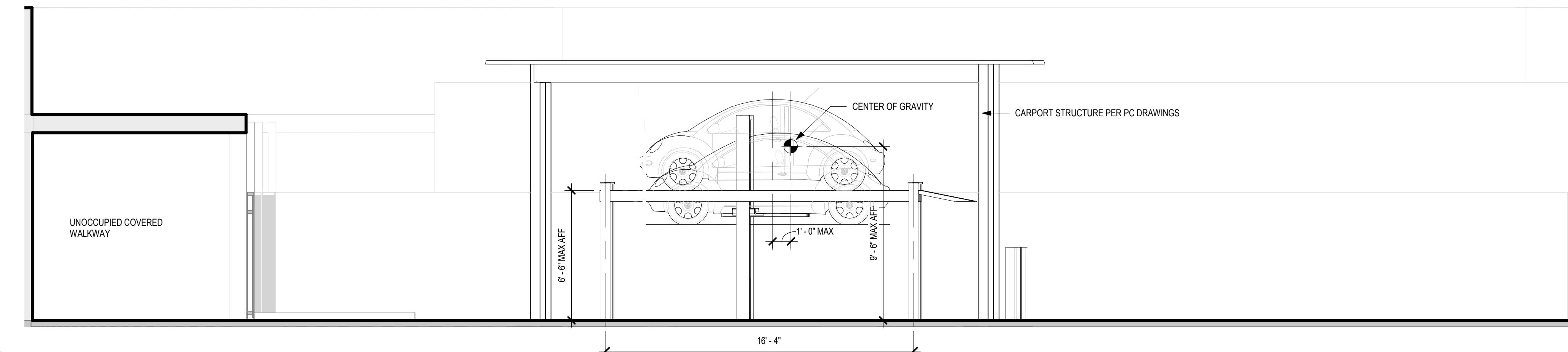


**4** ENLARGED FLOOR PLAN  
A2.1 1/4" = 1'-0"

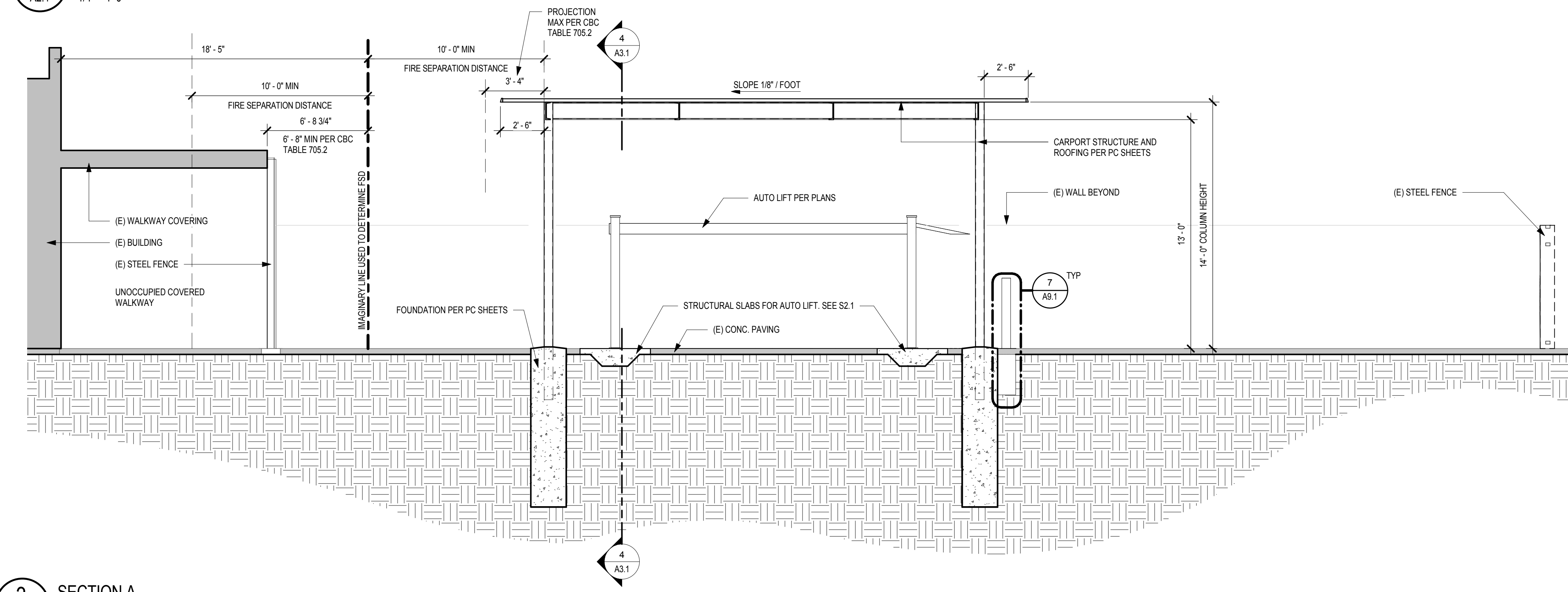
KEYNOTES



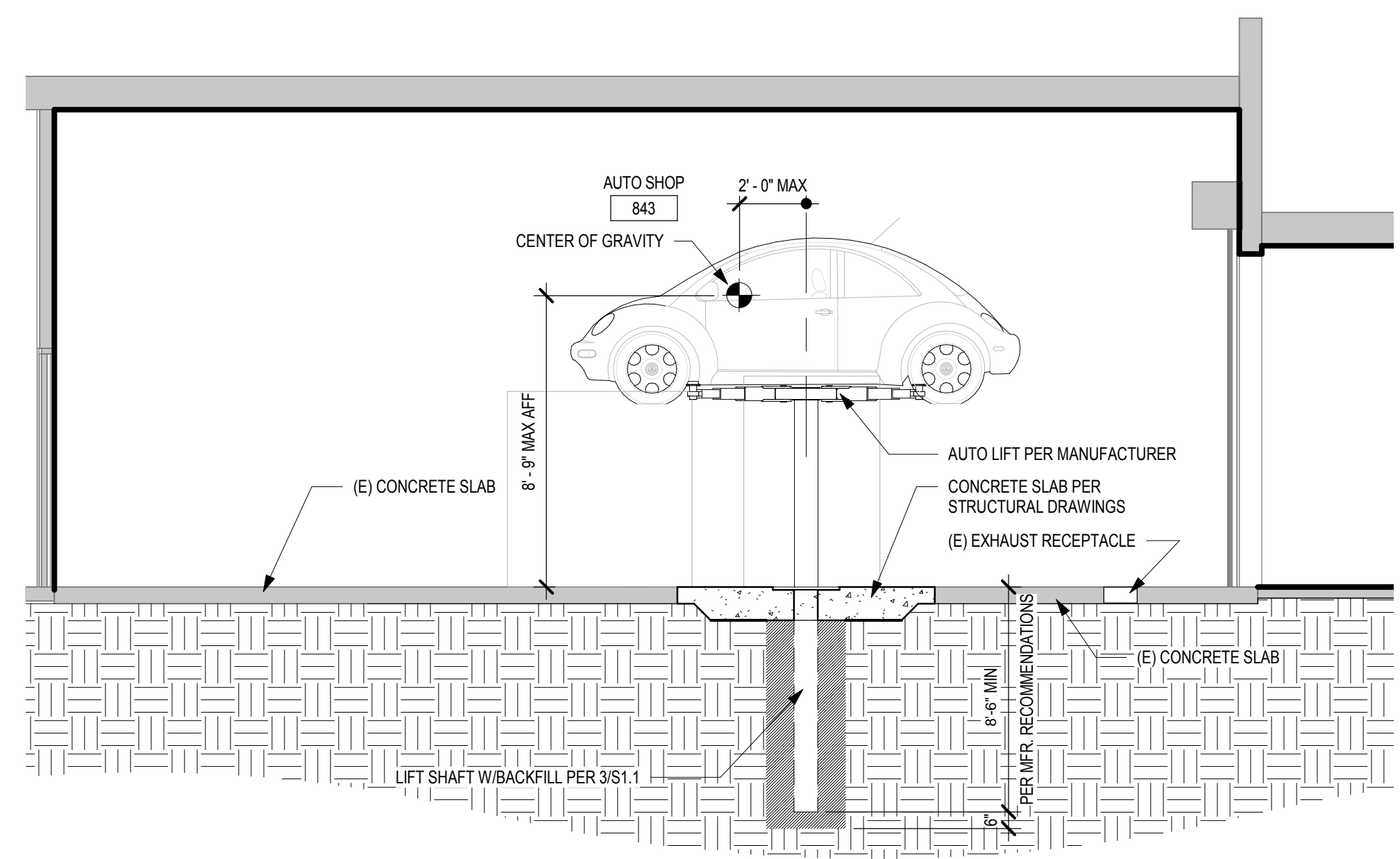
**1** SOUTHEAST ELEVATION  
A2.1 1/4" = 1'-0"



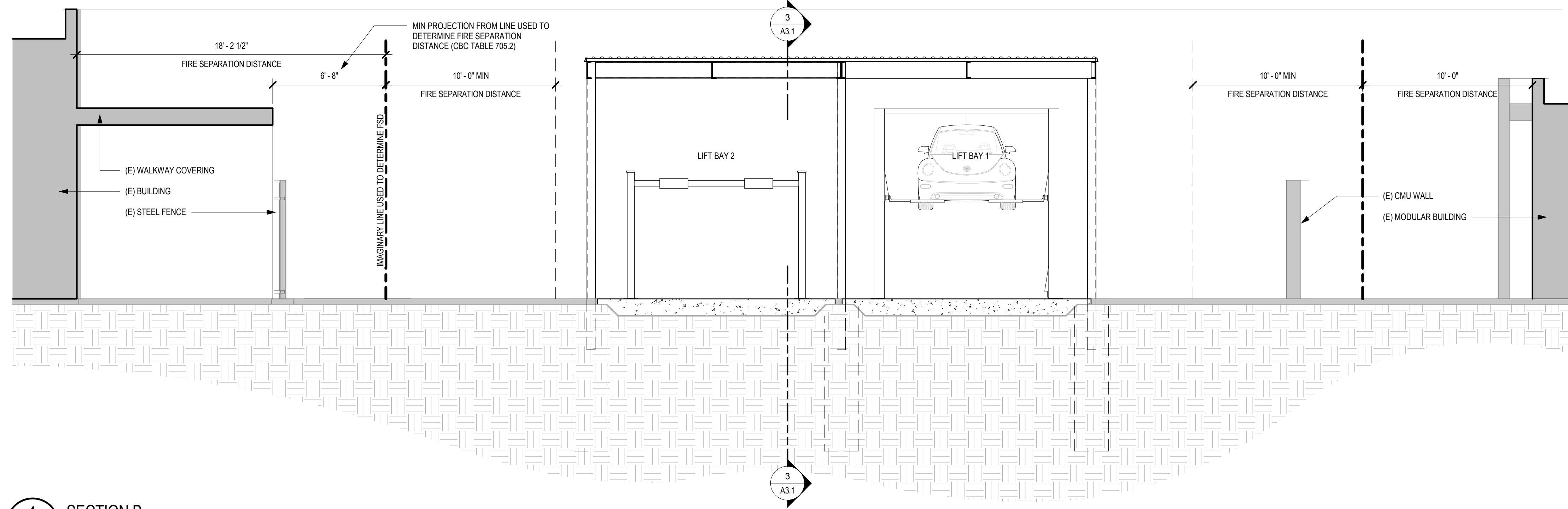
**2** SOUTHWEST ELEVATION  
A2.1 1/4" = 1'-0"



**3** SECTION A  
A2.1 1/4" = 1'-0"



**5** SECTION C  
A2.1 1/4" = 1'-0"



**4** SECTION B  
A2.1 1/4" = 1'-0"

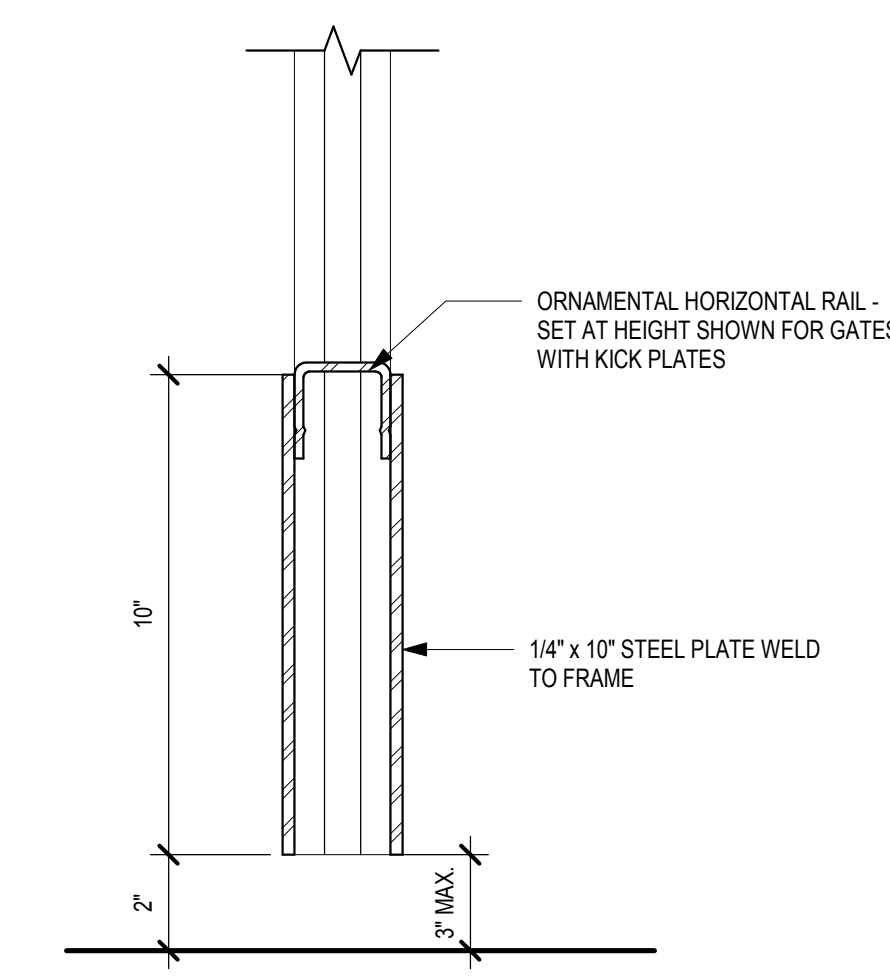
FILE NUMBER: 33-1118  
IDENTIFICATION STAMP  
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AC SL FLS JA SS DW  
DATE 05/02/2017

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APPL # 04-115995  
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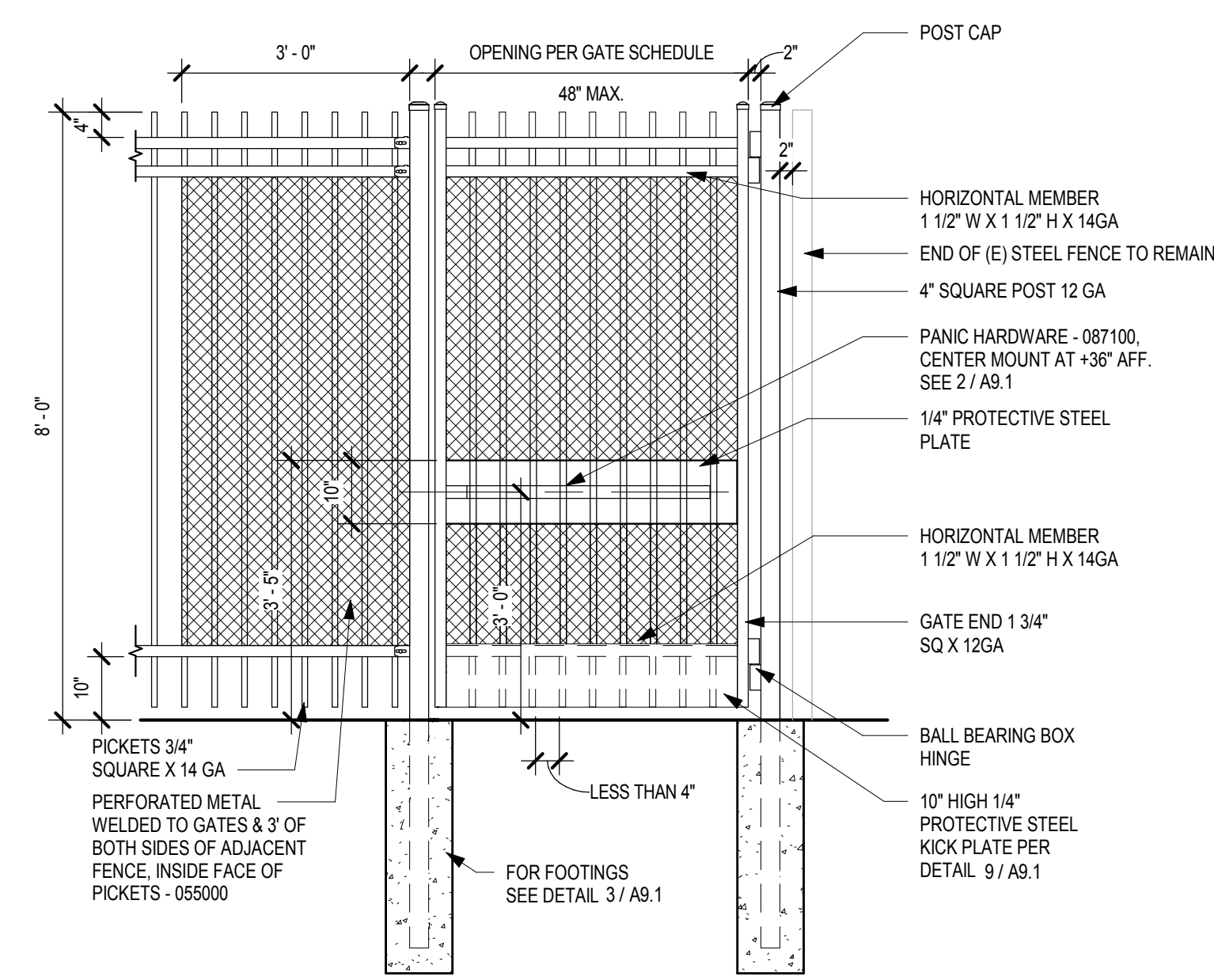
**ELEVATIONS AND SECTIONS**

NO. DATE ISSUE PROJECT NO: 13013-00  
DATE: 5/2/2017

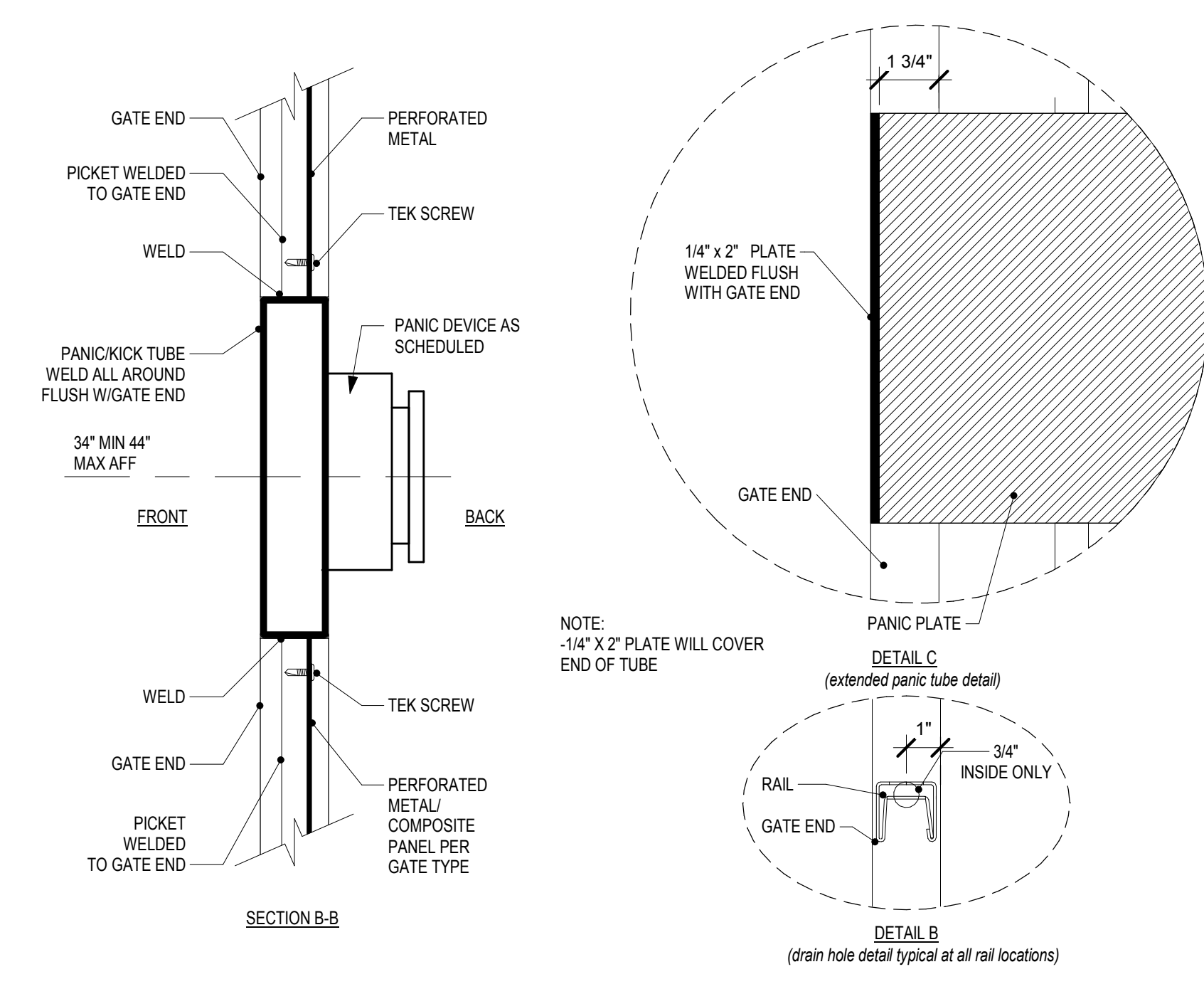
DRAWING  
**A3.1**



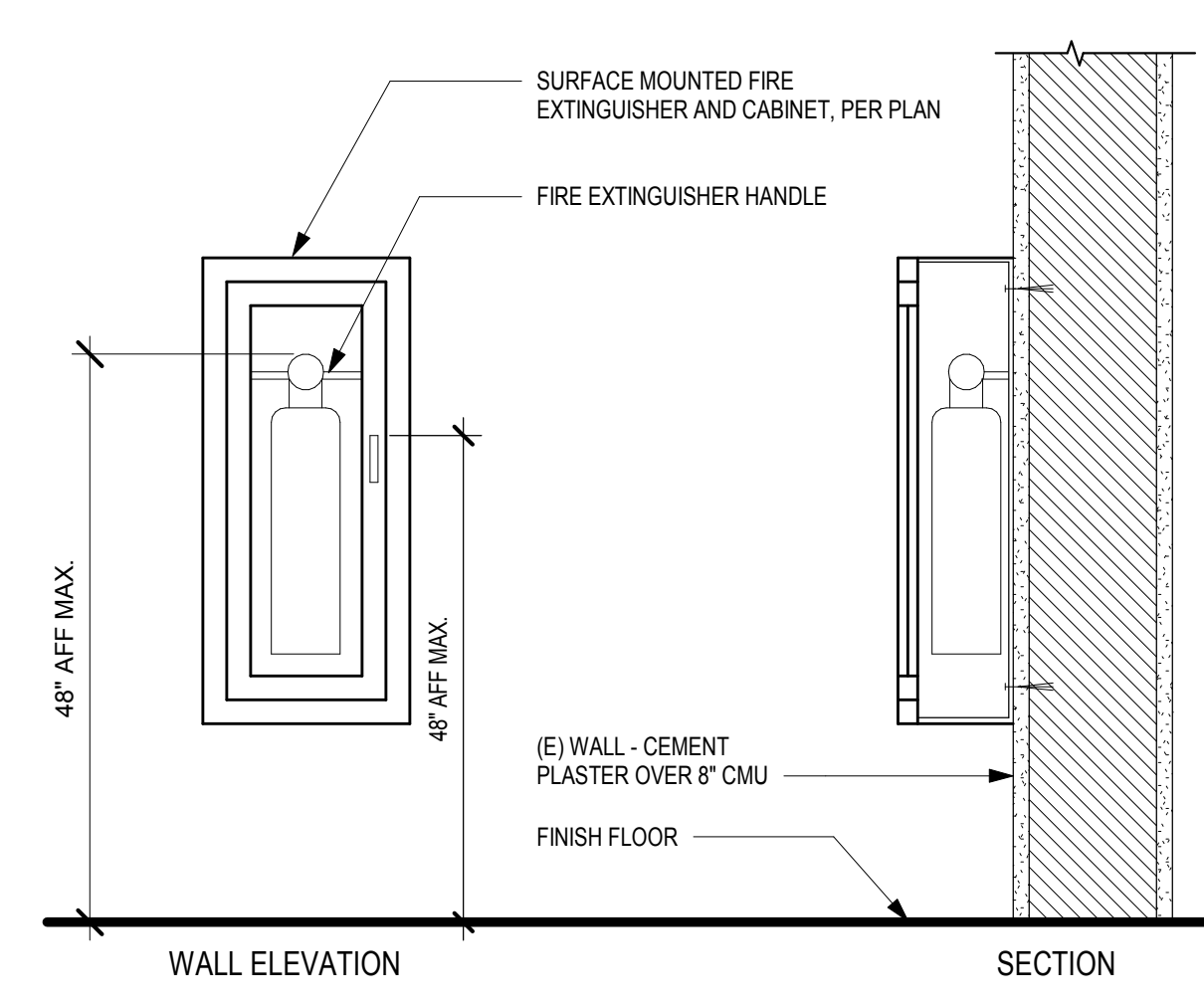
**9** METAL GATE KICK PLATE  
3\"/>



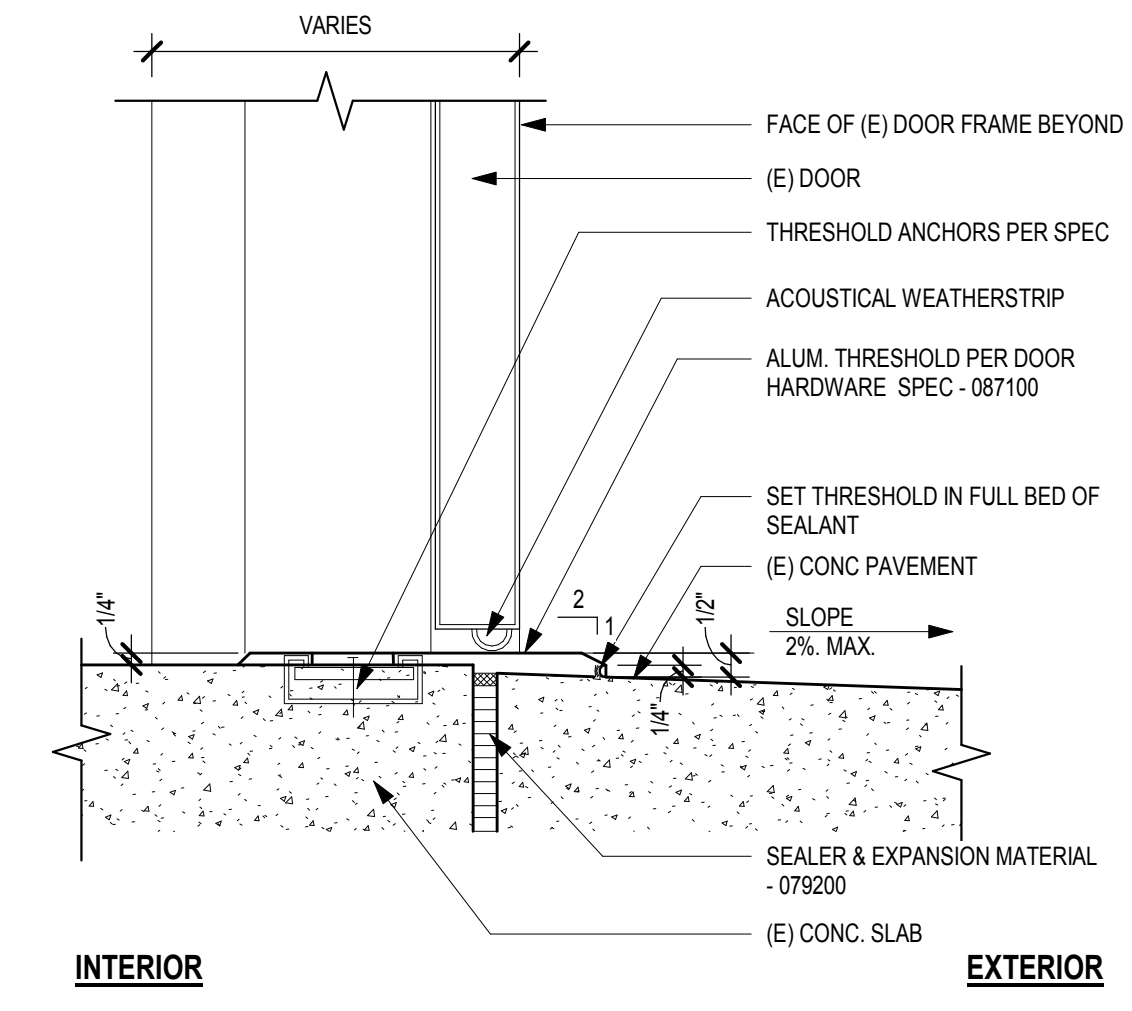
**5** STEEL GATE - TYPE GA  
A2.1 1/2\"/>



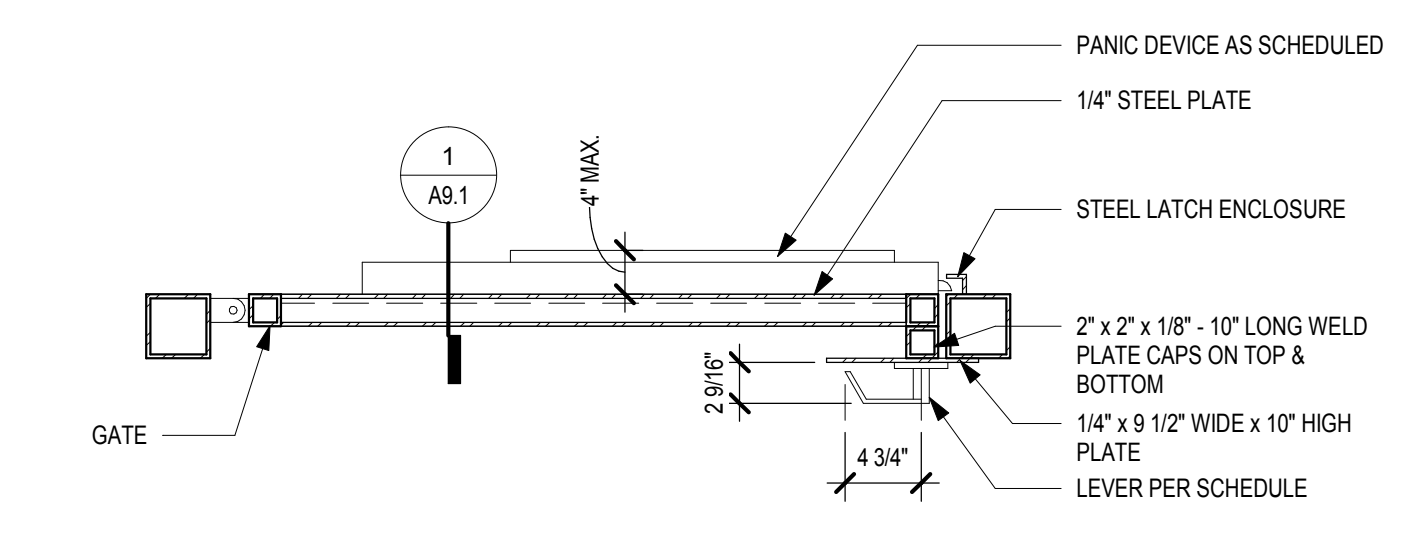
**1** METAL GATE PANIC HARDWARE MOUNTING  
A9.1 3\"/>



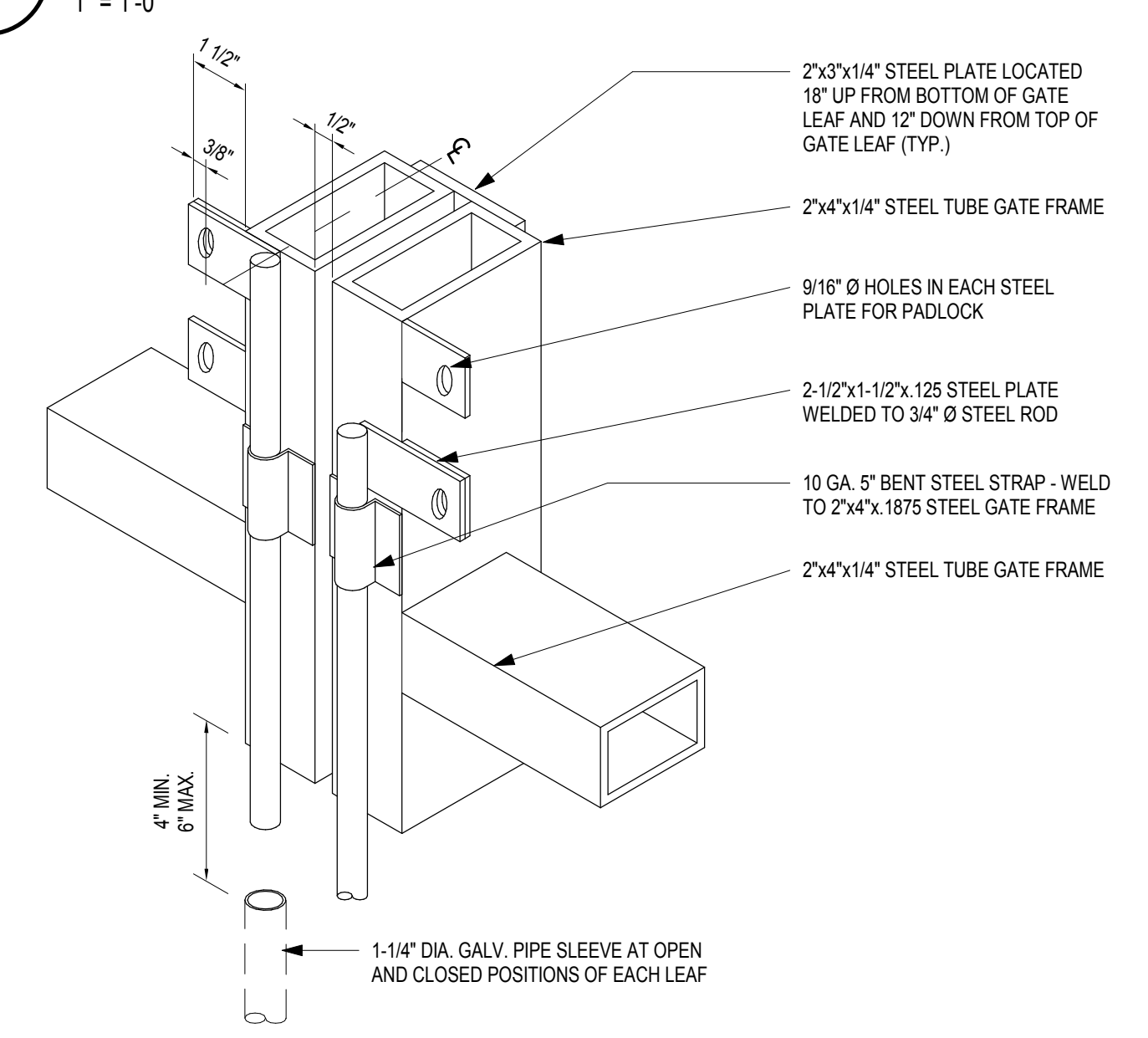
**10** FIRE EXTINGUISHER CABINET  
1\"/>



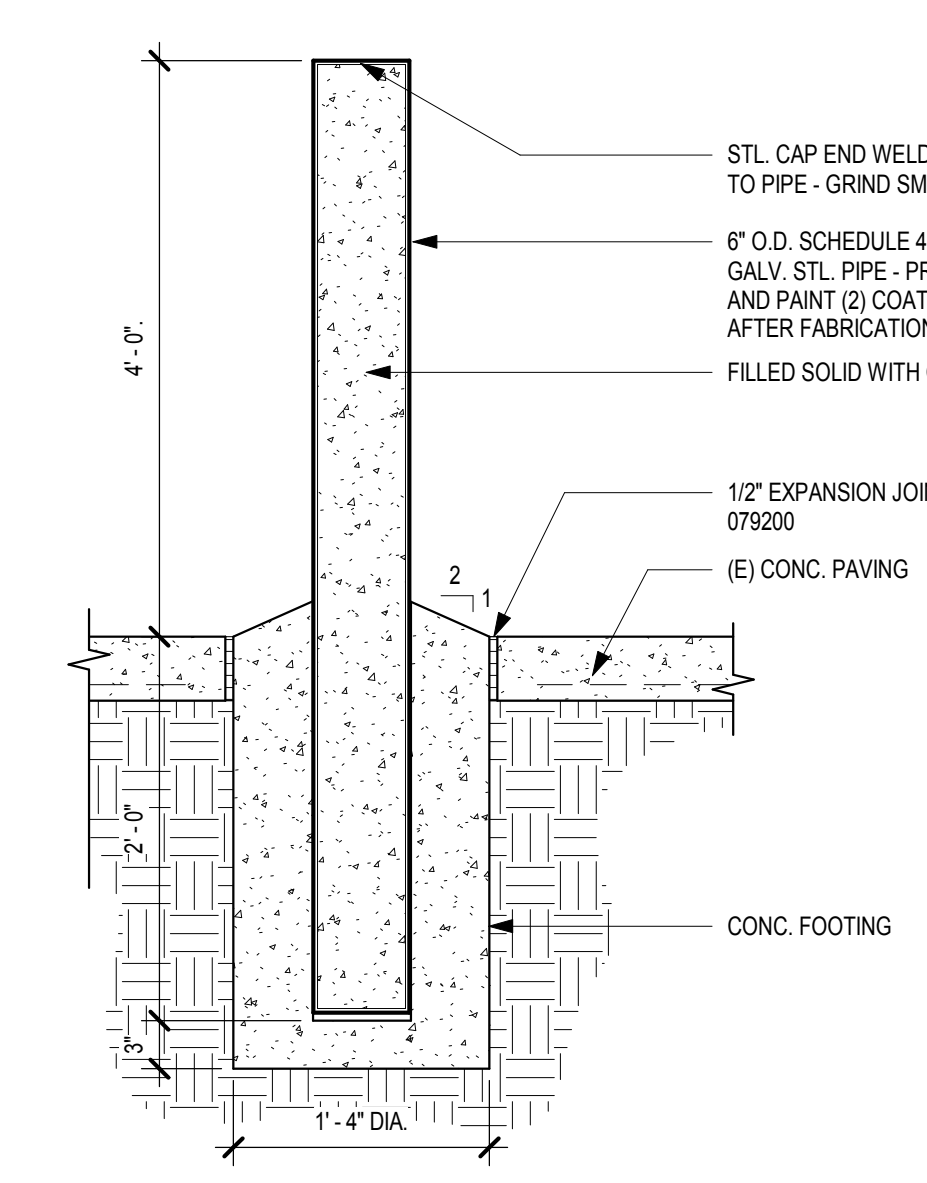
**6** DOOR THRESHOLD  
3\"/>



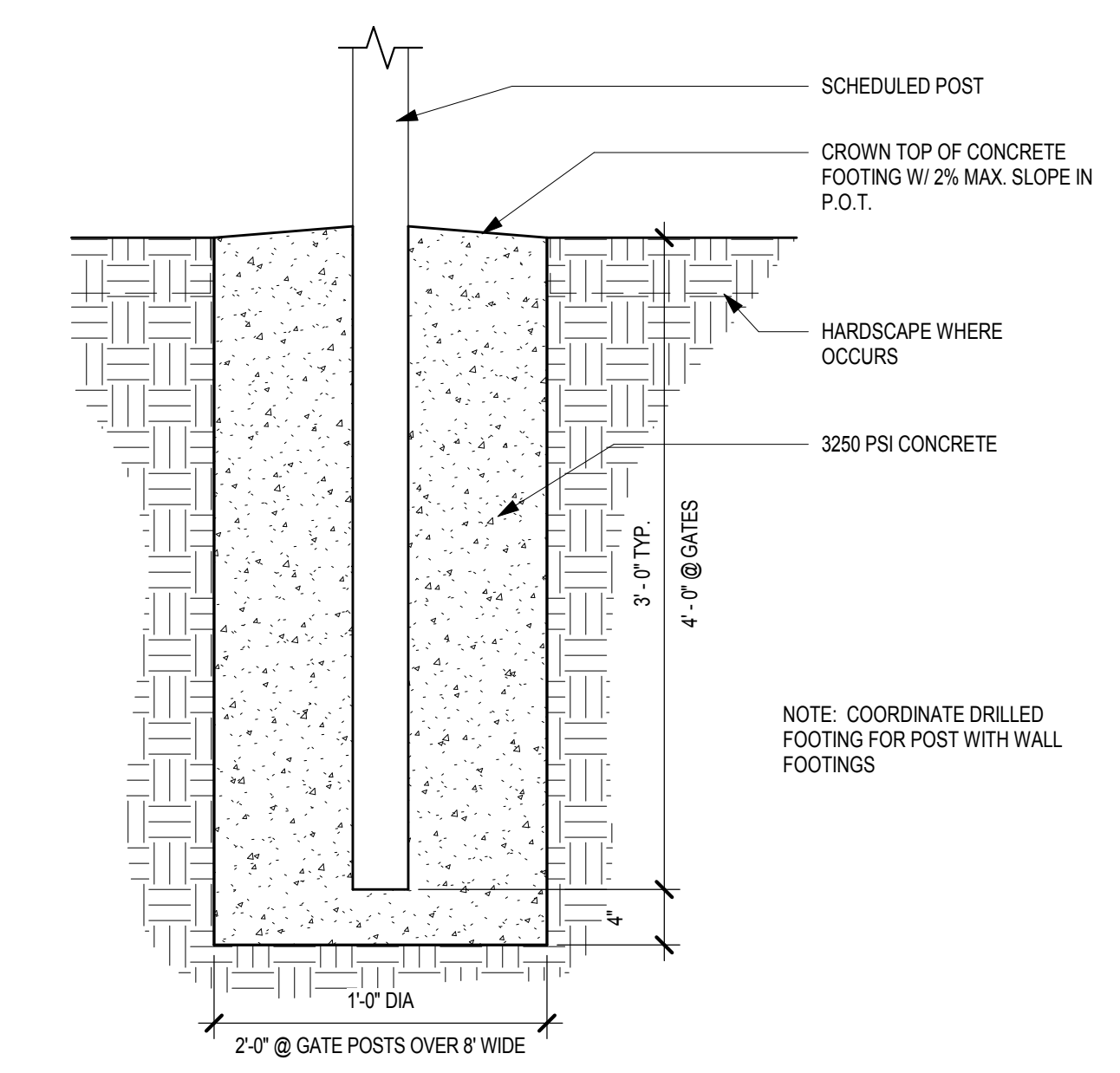
**2** GATE PANIC HARDWARE  
1\"/>



**11** CANE BOLT  
3\"/>



**7** TYPICAL PIPE BOLLARD  
A2.1 1\"/>



**3** METAL FENCE/GATE POST FOOTING  
1\"/>

SCHEDULE-DOOR & GATE														
NO.	WIDTH	HEIGHT	DOOR / GATE			FRAME			OPENING LABEL	DETAILS			PANIC HDW	REMARKS
			TYPE	MAT.	FIN.	GLASS	TYPE	MAT.		FIN.	HEAD	JAMB		
B43A	3'-0"	7'-0"	A	EX.	EX.	--	EX.	EX.	EX.	--	--	6/A9.1	No	HARDWARE SET 1
G1	4'-0"	8'-0"	GA	STL	PTM	--	5/A9.1	STL	PTM	--	5/A9.1	--	Yes	HARDWARE SET 2

**SCHEDULE NOTES**

**MATERIALS**

ALUM ALUMINUM  
HM HOLLOW METAL  
WD WOOD  
STL STEEL  
FG FULL GLASS  
SS STAINLESS STEEL  
FF FACTORY FINISH  
PTM PAINT TO MATCH EXISTING  
EX EXISTING

**DOOR SCHEDULE REMARKS**

1. NOT USED

**GENERAL NOTES**

1. FOR DOOR HARDWARE TYPES, REFER TO SPEC SECTION 087100

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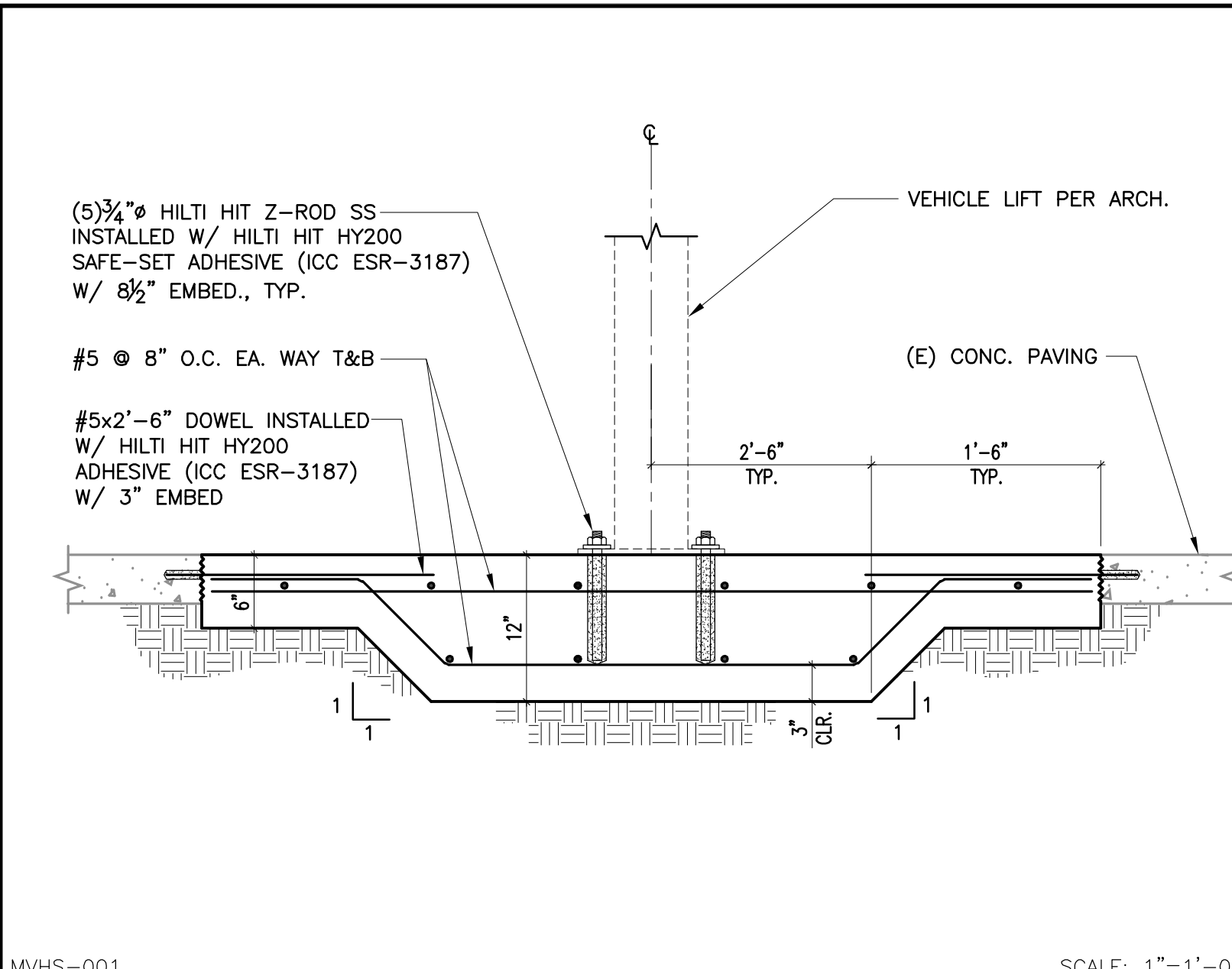
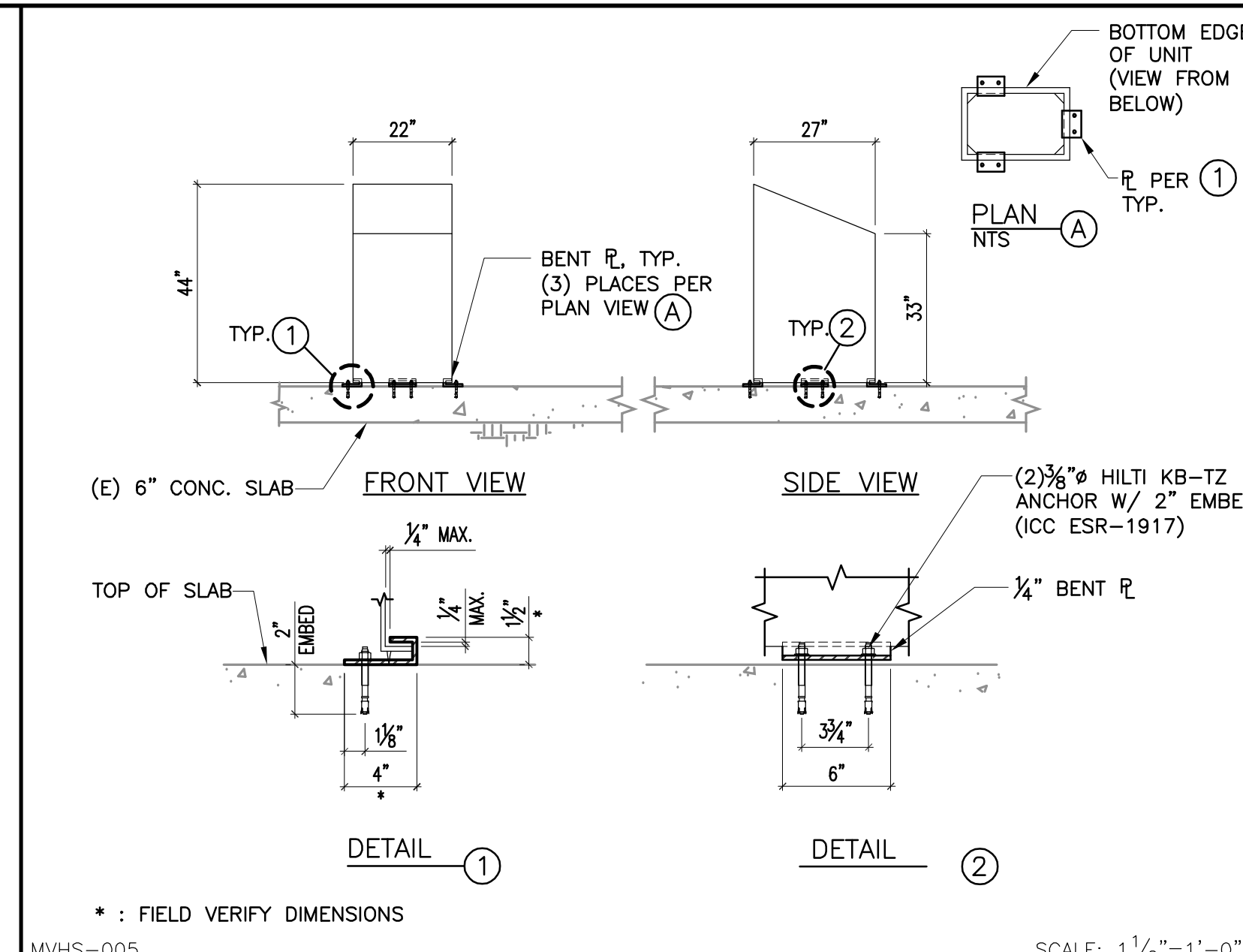
**SCHEDULES AND DETAILS**

NO. DATE ISSUE PROJECT NO. 13013-00  
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DRAWING  
**A9.1**







13

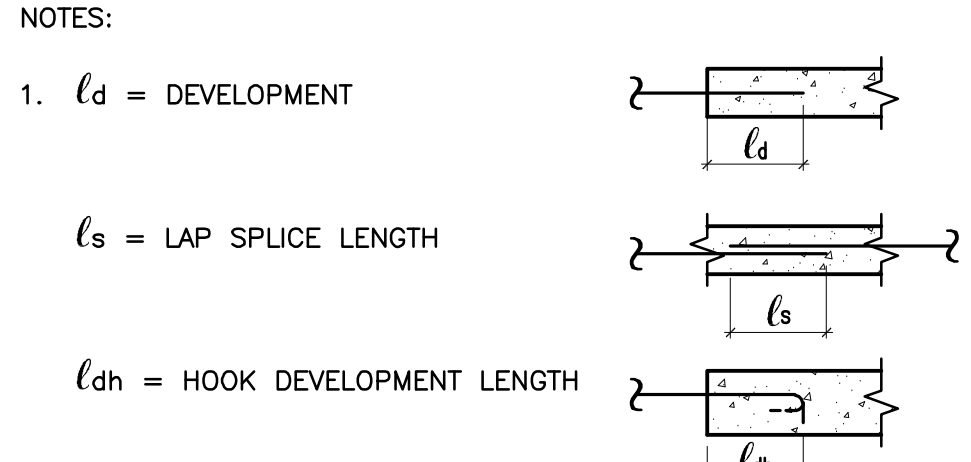
9 TIRE BALANCER ANCHORAGE

5

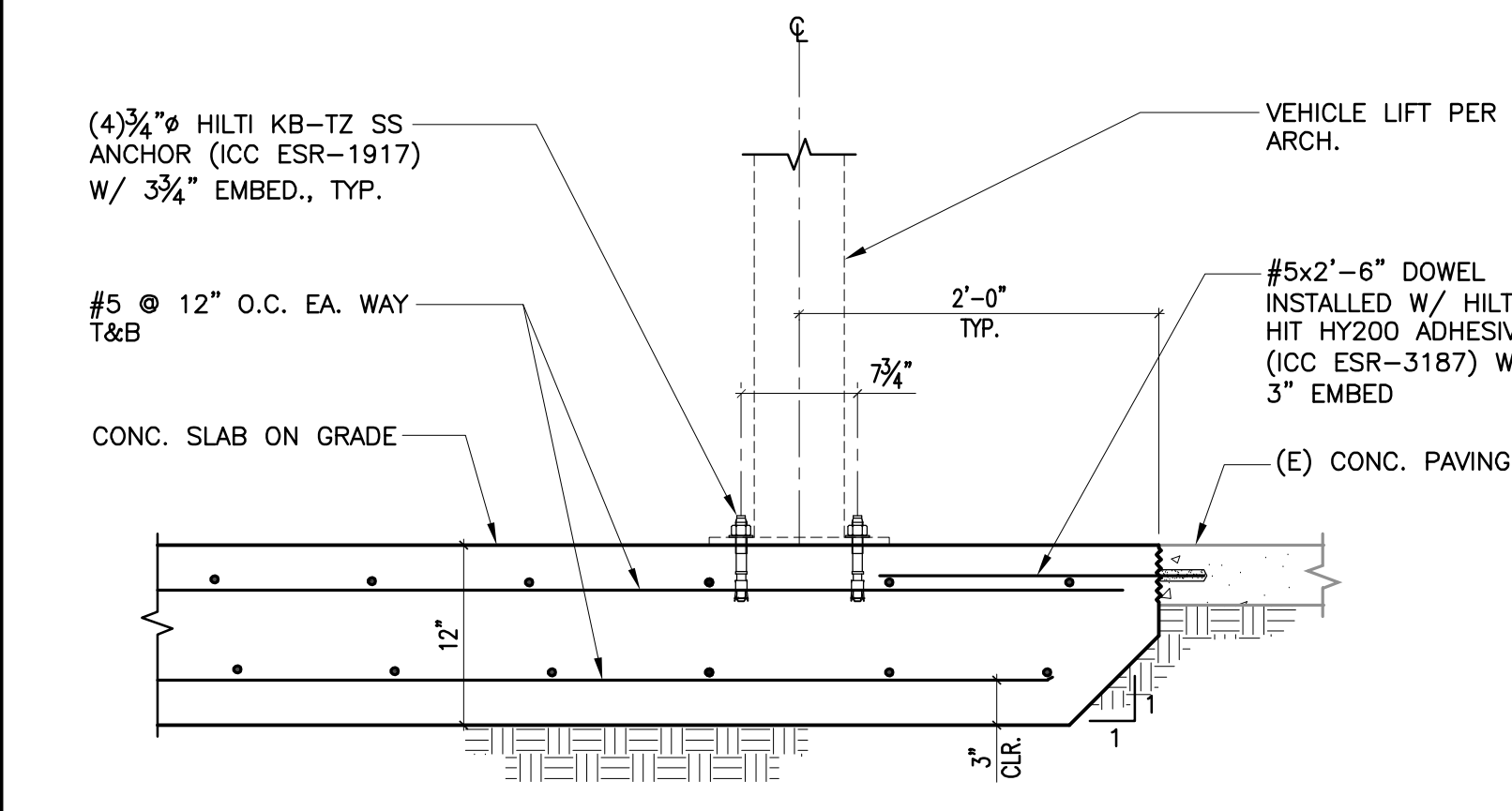
TWO POST CAR LIFT

1

REINFORCING DEVELOPMENT & SPLICE LENGTHS (GRADE 60)																														
TYPE	BAR LOCATION	CONCRETE		BAR SIZE																										
		TYPE	STRENGTH	#3	#4	#5	#6	#7	#8	#9	#10	#11																		
1	VERT. REINF. IN CONC WALL	NWC	$f_c > 4ksi$	$\ell_d$	$\ell_s$	$\ell_d$	$\ell_s$	$\ell_d$	$\ell_s$	$\ell_d$	$\ell_s$	$\ell_d$	$\ell_s$	$\ell_d$	$\ell_s$	$\ell_d$	$\ell_s$	$\ell_d$	$\ell_s$	$\ell_d$	$\ell_s$	$\ell_d$	$\ell_s$							
2	HORIZ. REINF. IN CONC. WALL, FTGS., BEAMS, MISC. (SEE NOTE 5)	NWC	$f_c > 4ksi$	14	18	6	19	25	7	24	31	9	28	37	10	42	54	12	47	62	14	54	70	15	61	79	17	87	113	19
3	SLAB ON GRADE (SEE NOTE 6)	NWC	$f_c > 4ksi$	14	18	6	19	25	7	24	31	9	28	37	10	42	54	12	47	62	14	54	70	15	61	79	17	87	113	19
4	CONC. ROOF OR FLOOR DIAPHRAGMS	LWC	$f_c \geq 3ksi$	23	30	8	30	39	12	37	48	12	44	57	13	65	84	16	74	96	19	83	108	20	93	121	23	104	135	25



- THE ABOVE DEVELOPMENT & SPLICE LENGTHS ARE CLASS B & APPLY TO ALL REINF. U.N.O. ON DWGS.
- FOR NONCONTACT LAP SPLICES AND ALL SPLICES IN SHOTCRETE WALLS, ADD 6" TO THE LENGTHS IN THE TABLE ABOVE.
- WHEN SPLICING BARS OF DIFFERENT SIZE, USE THE LAP SPLICE LENGTH OF LARGER BAR.
- TYPE 2 VALUES NOTED HAVE ALREADY BEEN INCREASED BY 1.3, ASSUMING A "TOP BAR" CONDITION.
- FOR SLABS OR CURBS THICKER THAN 12", THE REBAR LAPS SHALL BE INCREASED TO COMPLY WITH TYPE 2 VALUES.



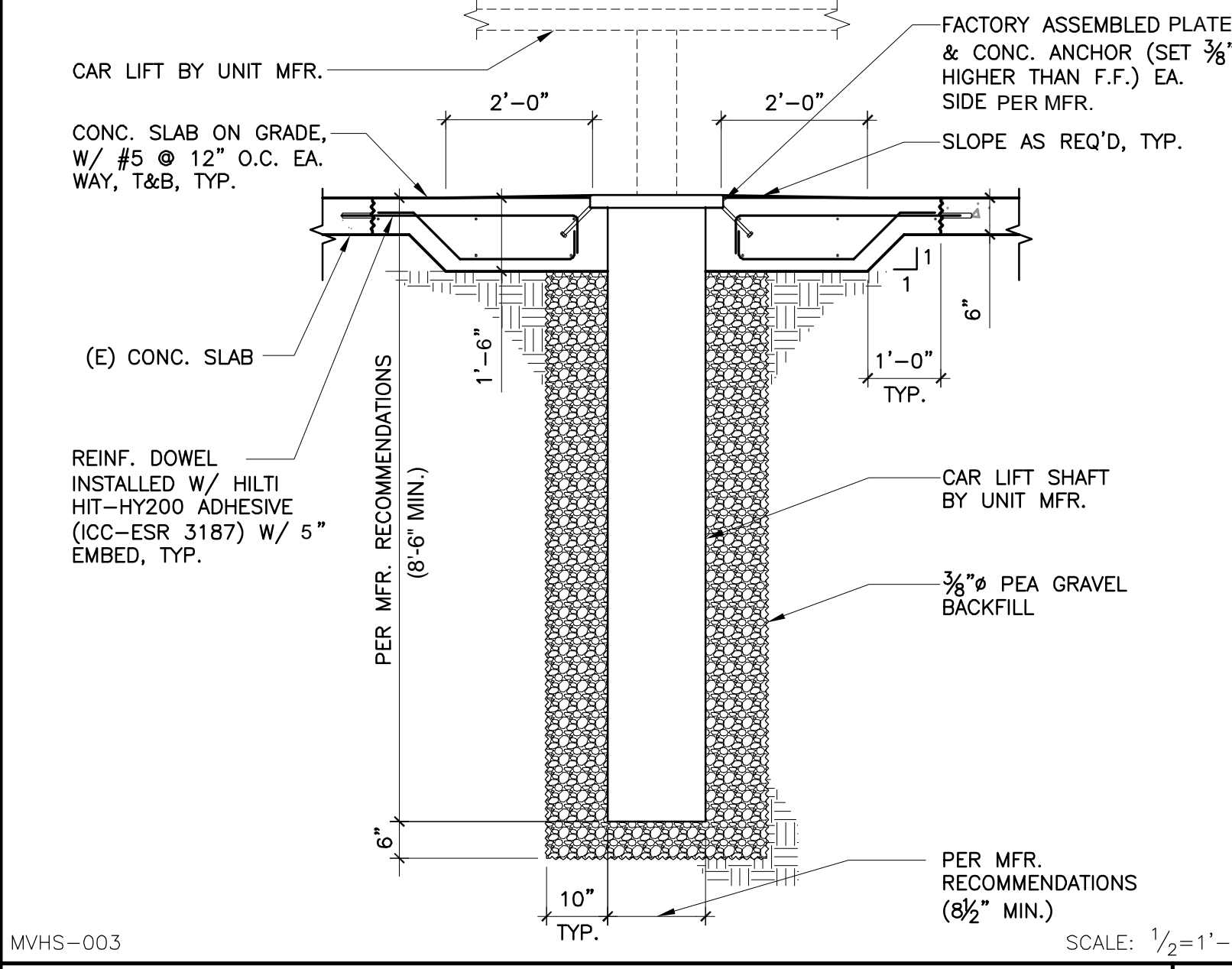
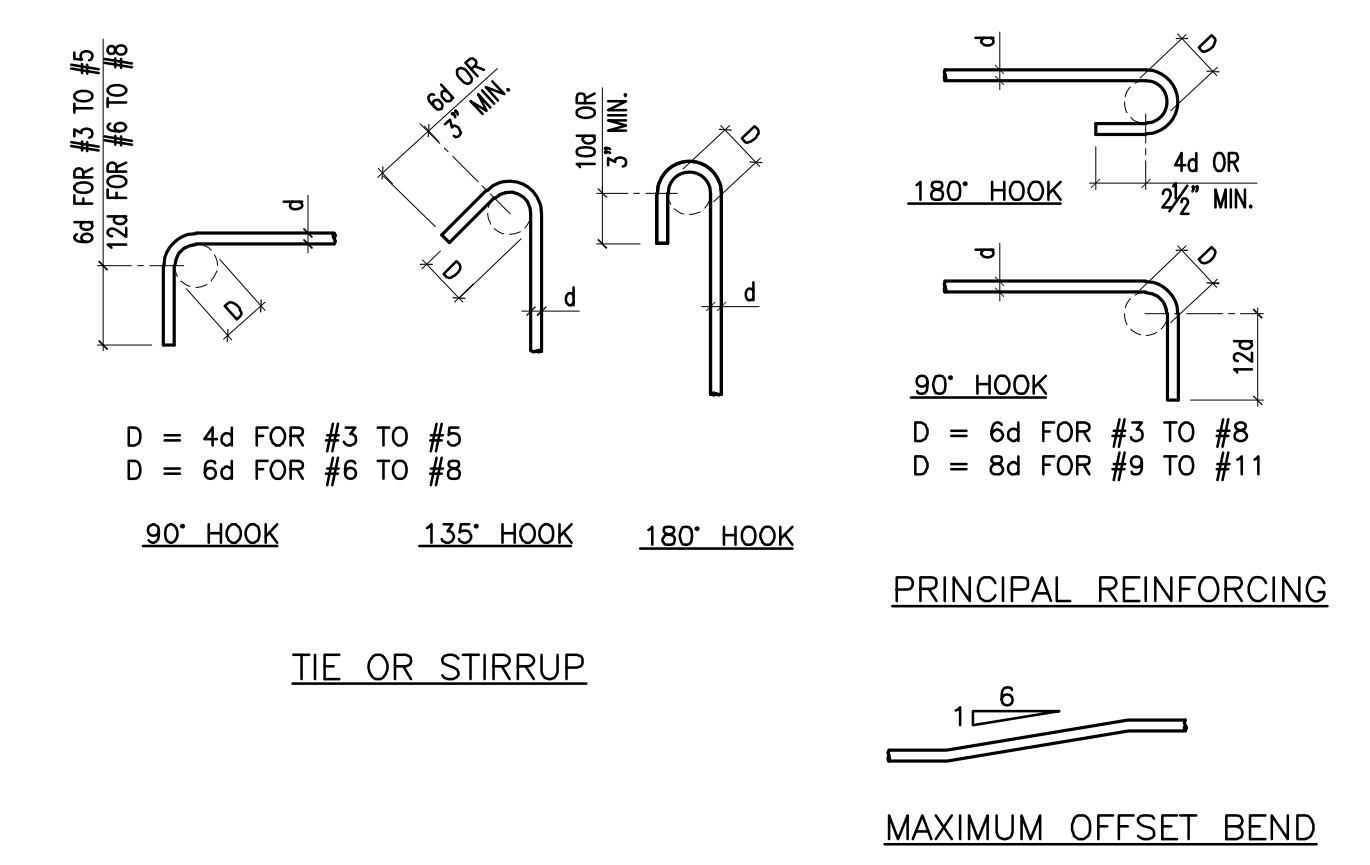
14

REINFORCING DEVELOPMENT AND SPLICE LENGTHS

6

FOUR POST CAR LIFT

2



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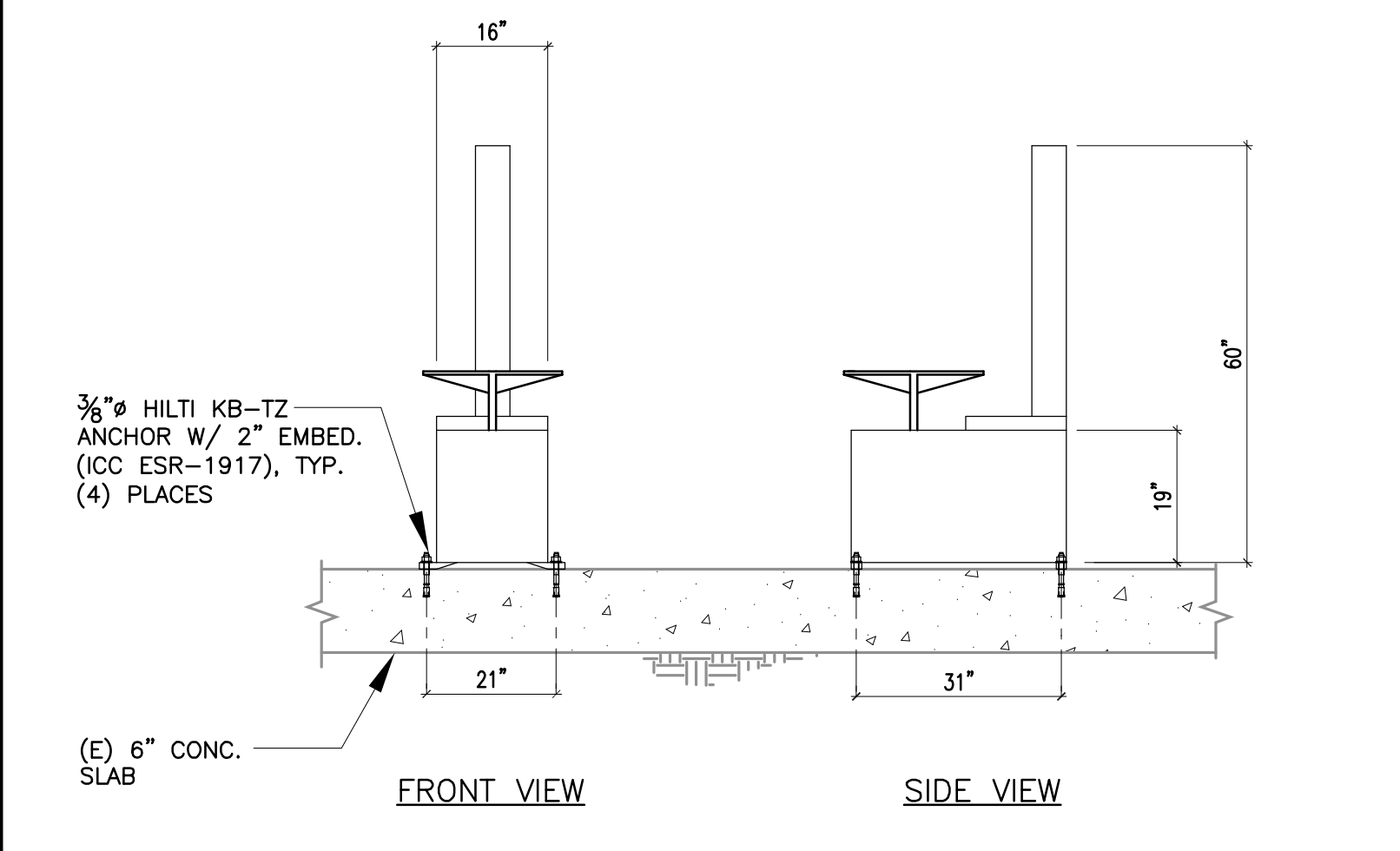
15

BAR BENDS

7

CARRIAGE CAR LIFT SHAFT

3



**CONSULTANT**  
**KNA Consulting Engineers, Inc.**  
9931 Muirlands Boulevard, Irvine, CA 92618  
Tel (949) 462-3200, Fax (949) 462-3201  
KNA JOB NO: 923046

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APPL # 04-115995  
AC FLS SS  
DATE:

DETAILS

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DRAWING  
S1.1

16

12

8



RIM CLAMP ANCHORAGE

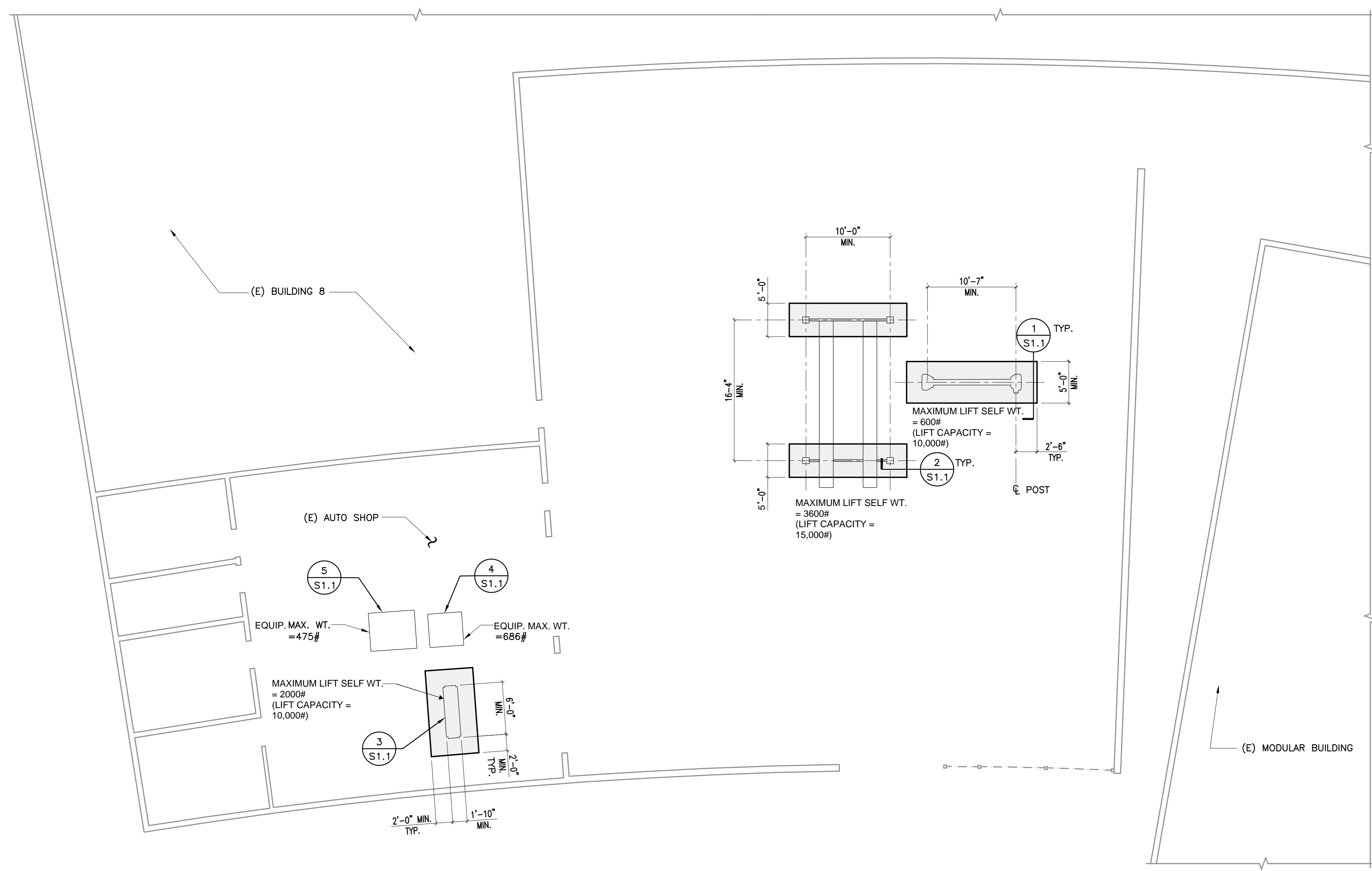
4

**EQUIPMENT PLAN NOTES**

1. SEE SHEETS S0.1 & S1.0 FOR GENERAL NOTES AND TYPICAL DETAILS.
2. SEE SPECIFICATIONS FOR ALL SITE AND SUBGRADE REQUIREMENTS.
3. FOR ANY DIMENSIONAL INFORMATION NOT SHOWN, SEE ARCHITECTURAL DRAWINGS.
4. SEE SHEET S1.0 FOR EQUIPMENT ANCHORAGE DETAILS.
5. SEE ARCHITECTURAL SHEETS FOR LOCATION OF EQUIPMENT.

**EQUIPMENT PLAN LEGEND**


-  : INDICATES EQUIPMENT OUTLINE.
-  : INDICATES NEW CONCRETE SLAB.



**EQUIPMENT PLAN**  
SCALE: 1/8" = 1'-0"

FILE NUMBER: 323418  
IDENTIFICATION STAMP  
DIVISION OF THE STATE ARCHITECT  
APP. NO. 04 - 115995 INCR.  
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DATE 05/02/2017

**CONSULTANT**  
 **Consulting Engineers, Inc.**  
9931 Muirlands Boulevard, Irvine, CA 92618  
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KNA JOB NO: 923046

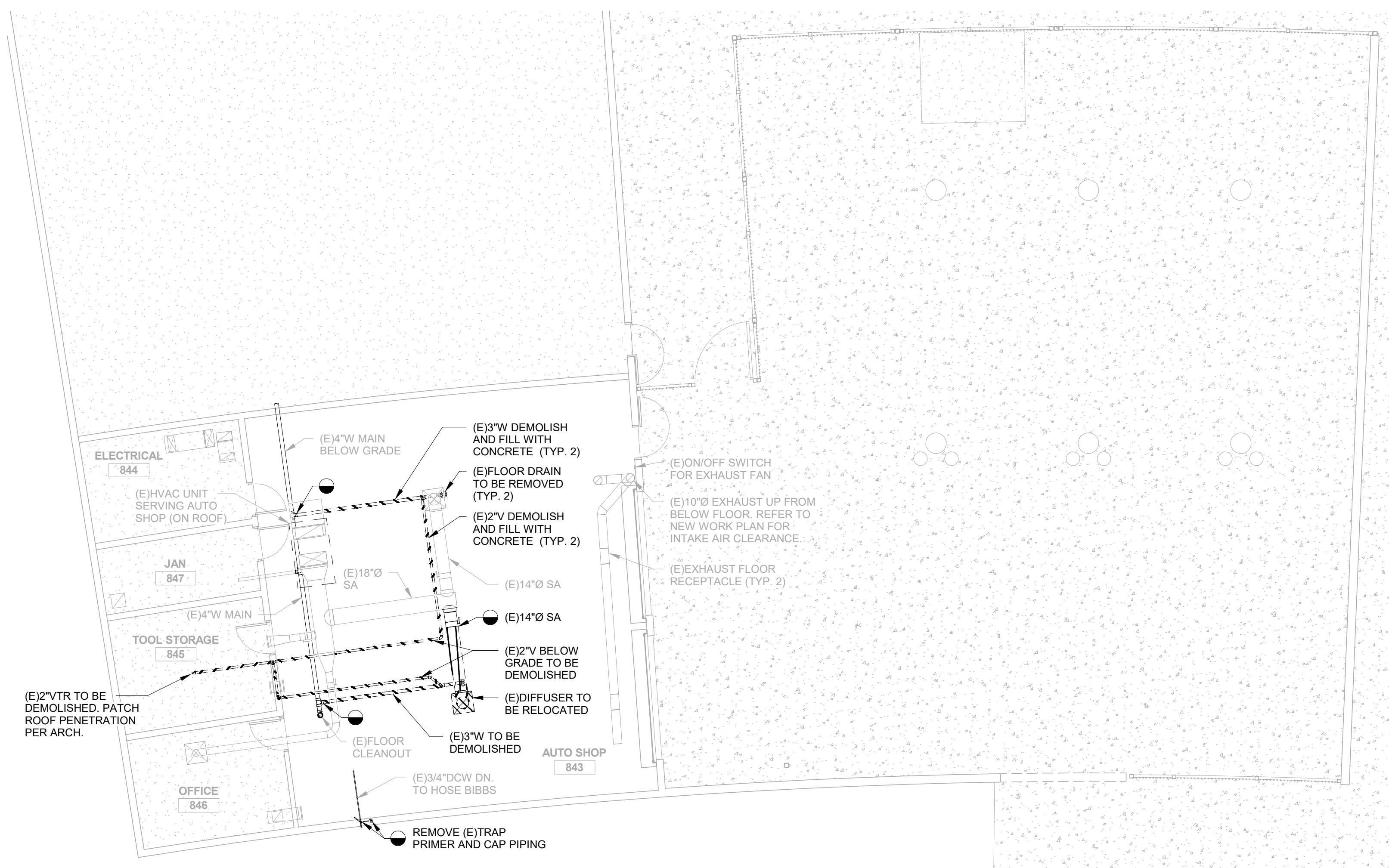


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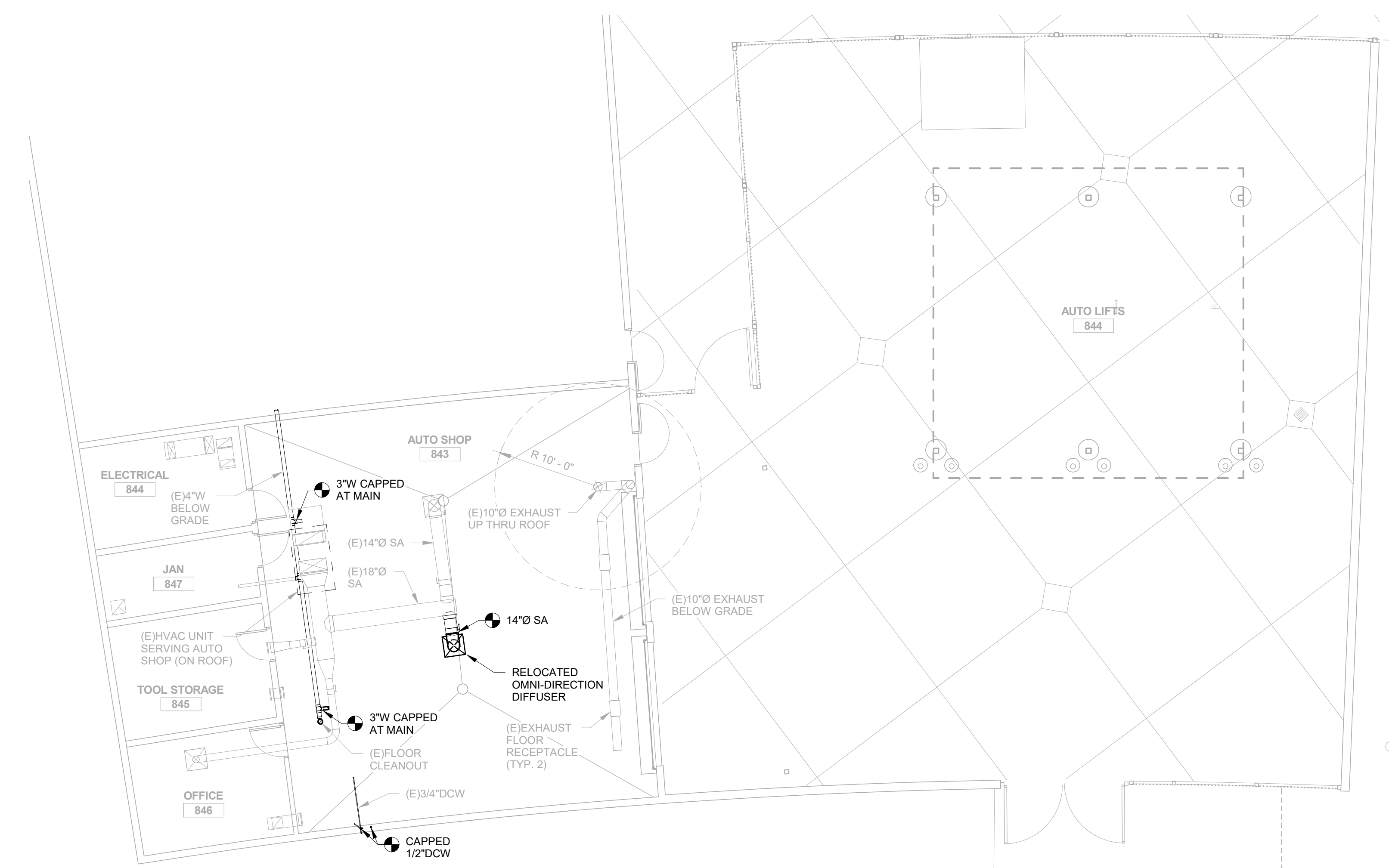
**EQUIPMENT PLAN**

NO. DATE ISSUE PROJECT NO: 13013  
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DRAWING  
**S2.1**



**1 MECHANICAL & PLUMBING DEMOLITION PLAN**  
SCALE: 1/8" = 1'-0"



**2 MECHANICAL & PLUMBING NEW WORK PLAN**  
SCALE: 1/8" = 1'-0"

MECHANICAL LEGEND		
SYMBOL	ABBREV.	DESCRIPTION
	10 x 6	DUCTWORK (1ST NUMBER INDICATES SIDE SHOWN, DOUBLE OR SINGLE LINE)
	M.V.D.	MANUAL VOLUME DAMPER
		RECTANGULAR DUCT UP
		RECTANGULAR DUCT DOWN
		DUCT TRANSITION (RECTANGULAR TO ROUND)
	S.A.	SUPPLY AIR DUCT
	R.A. / O.A.	RETURN AIR DUCT / OUTSIDE AIR DUCT
	E.A.	EXHAUST AIR DUCT
	DN.	PIPE DOWN
		PIPE UP
	L.O.D.	LIMIT OF DEMOLITION
	P.O.C.	POINT OF CONNECTION
	TYP.	TYPICAL
	U.T.R.	UP THRU ROOF

- ### GENERAL NOTES
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH CITY CODES, 2016 CALIFORNIA BUILDING CODE, 2016 CALIFORNIA MECHANICAL CODE, 2016 CALIFORNIA ENERGY CODE, 2016 CALIFORNIA FIRE CODE, 2016 CALIFORNIA GREEN BUILDING STANDARDS, NFPA 90.1, 90.2, 90.3, 90.4, 90.5, 90.6, 90.7, 90.8, 90.9, 90.10, 90.11, 90.12, 90.13, 90.14, 90.15, 90.16, 90.17, 90.18, 90.19, 90.20, 90.21, 90.22, 90.23, 90.24, 90.25, 90.26, 90.27, 90.28, 90.29, 90.30, 90.31, 90.32, 90.33, 90.34, 90.35, 90.36, 90.37, 90.38, 90.39, 90.40, 90.41, 90.42, 90.43, 90.44, 90.45, 90.46, 90.47, 90.48, 90.49, 90.50, 90.51, 90.52, 90.53, 90.54, 90.55, 90.56, 90.57, 90.58, 90.59, 90.60, 90.61, 90.62, 90.63, 90.64, 90.65, 90.66, 90.67, 90.68, 90.69, 90.70, 90.71, 90.72, 90.73, 90.74, 90.75, 90.76, 90.77, 90.78, 90.79, 90.80, 90.81, 90.82, 90.83, 90.84, 90.85, 90.86, 90.87, 90.88, 90.89, 90.90, 90.91, 90.92, 90.93, 90.94, 90.95, 90.96, 90.97, 90.98, 90.99, 90.100.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION AND PROVIDE REPAIR OF ADJACENT EXISTING SURFACES, EQUIPMENT AREAS, AND PROPERTY THAT MAY BE DAMAGED AS A RESULT OF ANY DEMOLITION AND/OR NEW WORK.
  - THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, EQUIPMENT, TRANSPORTATION AND SERVICES NECESSARY FOR THE COMPLETION OF THE WORK. ALL MATERIALS & WORK SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES AND GOVERNING REGULATIONS AND SHALL MEET WITH THE APPROVAL OF THE CITY AND STATE FIRE MARSHAL.
  - ALL DRAWINGS ARE CONSIDERED TO BE PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO ANY CONSTRUCTION, INCLUDING ARCHITECTURAL, STRUCTURAL, AIR CONDITIONING, PLUMBING, AND ELECTRICAL. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE START OF CONSTRUCTION SO THAT A CLARIFICATION MAY BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENT SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE, AND AT NO EXPENSE TO THE OWNER.
  - DO NOT SCALE DRAWINGS - ALL DIMENSIONS AND JOB SITE CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE JOB SITE PRIOR TO BID SUBMITTAL, START OF CONSTRUCTION AND / OR FABRICATION OF MATERIALS. IF DISCREPANCIES ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED FOR CLARIFICATION.
  - CONTRACTOR SHALL COORDINATE ALL DUCT, PIPE AND EQUIPMENT LOCATIONS WITH PLUMBING, ELECTRICAL, STRUCTURAL, AND ALL OTHER TRADES.
  - ALL DUCTWORK SHALL BE CONSTRUCTED, ERECTED & TESTED IN ACCORDANCE WITH THE MOST RESTRICTIVE OF LOCAL REGULATIONS AND PROCEDURES DETAILED IN THE A.S.H.R.A.E. HANDBOOK OF FUNDAMENTALS OR THE APPLICABLE STANDARDS ADOPTED BY S.M.A.C.N.A. PROVIDE RECTANGULAR DUCTS OF GALVANIZED STEEL & PREFABRICATED SPIRAL LOCKSEAM DUCTS AND FITTINGS.
  - DUCT MATERIALS SHALL COMPLY WITH ANSISMACNA 006-2006 HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE, 3RD EDITION.
  - PROVIDE DUCT MANUAL VOLUME DAMPERS IN EACH BRANCH DUCT AND IN EACH MAIN DUCT TO PROVIDE FOR COMPLETE AIR BALANCE OF THE SYSTEM. PROVIDE ADEQUATE ACCESS AND IDENTIFICATION.
  - ALL DUCTWORK AND PIPING SHALL BE INSULATED CONSISTENTLY WITH THE REQUIREMENTS OF SECTIONS 118, 123, & 124 OF THE 2016 ENERGY EFFICIENCY STANDARDS (E.E.S.) AND TABLES 6-8A AND 6-8B OF 2016 C.M.C.
  - INSULATION MATERIAL SHALL MEET THE CALIFORNIA QUALITY STANDARD PER SECTION 118 OF E.E.S.
  - HVAC UNITS SHUTDOWN TO BE ACCOMPLISHED USING THE BUILDING'S FIRE ALARM SYSTEM.
  - MATERIAL EXPOSED WITHIN A DUCT OR PLENUM SHALL COMPLY WITH SECTION 602.2 OF 2016 C.M.C.
  - ALL OUTLETS FOR FUTURE CONNECTIONS SHALL BE INSTALLED SO AS TO PERMIT EASY CONNECTION. COORDINATE DUCTWORK, STRUCTURAL CONDITIONS AND ARCHITECTURAL LAYOUT.
  - SEE ARCHITECTURAL DRAWINGS FOR ROOF ACCESS AND ADDITIONAL ENERGY CONSERVATION NOTES.
  - ALL PLUMBING EQUIPMENT, MATERIALS, AND ALL CONNECTIONS THERETO SHALL BE INSTALLED COMPLETE PER MANUFACTURER INSTRUCTIONS TO PROVIDE A COMPLETE AND FULLY OPERATIONAL SYSTEM.
  - ALL PLUMBING SOLDER SHALL BE LEAD FREE.
  - PLUMBING PIPING SYSTEMS SHALL BE INSULATED PER BUILDING ENERGY EFFICIENCY STANDARDS (E.E.S.) SECTION 123. ALL INSULATING MATERIALS INSTALLED SHALL BE CERTIFIED BY CALIFORNIA ENERGY COMMISSION TO MEET C.E.C. E.E.S. SECTION 118, 123 & 124.
  - NO CPVC SHALL BE INSTALLED FOR POTABLE WATER SUPPLY. ALL PLUMBING FIXTURES & PIPING USED TO CONVEY DRINKING WATER SHALL BE AB1953 COMPLIANT. IDENTIFICATION OF POTABLE AND NON-POTABLE WATER PIPES AND OUTLETS SHALL COMPLY WITH SECTION 614.0 OF THE 2016 CALIFORNIA PLUMBING CODE.
  - EACH PLUMBING FIXTURE THAT CONNECTS TO THE SANITARY SEWER SYSTEM SHALL BE PROPERLY TRAPPED AND VENTED IN ACCORDANCE WITH THE 2016 CALIFORNIA PLUMBING CODE.

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- ### SEISMIC RESTRAINING NOTES
- ALL MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A-1.18 THROUGH 1616A-1.26 AND ASCE 7-10 CHAPTER 13, 26, AND 30:
- ALL PERMANENT EQUIPMENT AND COMPONENTS.
  - TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
  - MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.
- THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.
- COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
  - COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.
- FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR SHALL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.
- PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8, AND 2016 CBC SECTIONS 1616A-1.23, 1616A-1.24, 1616A-1.25, AND 1616A-1.26.
- THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE, COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE MADE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.
- MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEM (E):  
 MP[X] MD[X] PP[X] E[X] - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.  
 MP[ ] MD[ ] PP[ ] E[ ] - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM)\*  
 MP[ ] MD[ ] PP[ ] E[ ] - OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2009), INCLUDING ANY ADDENDA. FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL AND CONNECTION LEVEL FOR THE PROJECT AND CONDITIONS.

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DATE:

**MECHANICAL & PLUMBING LEGEND, GENERAL NOTES, AND FLOOR PLANS**

NO. DATE ISSUE PROJECT NO: 13013  
DATE: 05.02.2017

DRAWING  
**MP0.1**



KEYNOTES

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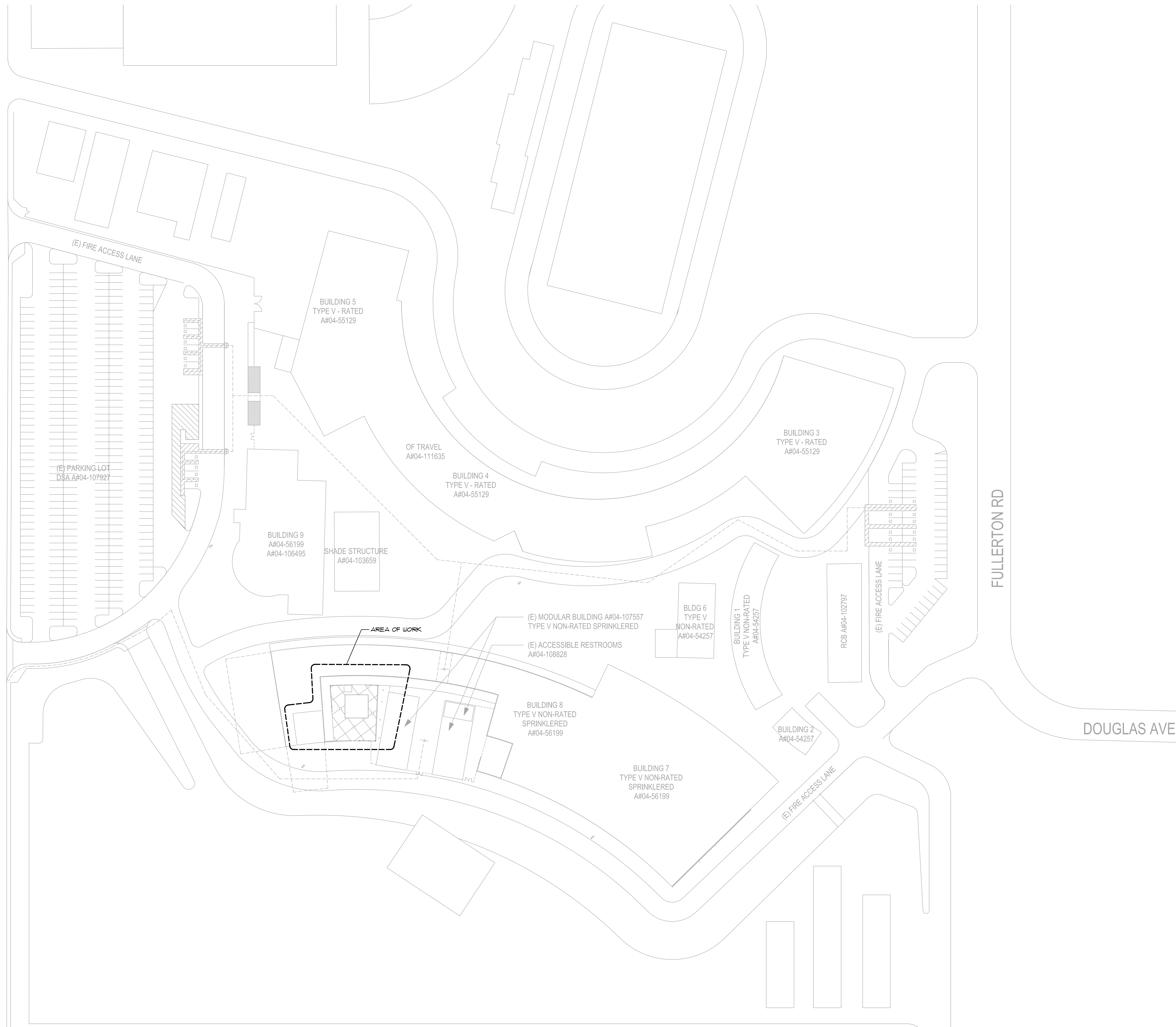
**JOHNSON**  
CONSULTING ENGINEERS, INC.  
Power | Lighting | Multimedia  
Communications | Data Networking  
12875 Brookprinter Place, Suite 300  
Poway, CA 92084  
P 858.679.4030 | F 858.513.0559  
www.jce-inc.com  
#3027 2/10/2017

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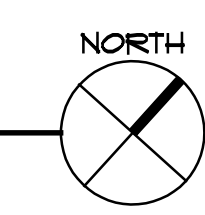
**ELECTRICAL SITE PLAN**

NO. DATE ISSUE PROJECT NO. 13013  
DATE: 05/02/2017

DRAWING  
**E1.1**



**ELECTRICAL SITE PLAN - NOT FOR CONSTRUCTION - FOR REFERENCE ONLY**  
SCALE: 1" = 50'-0"



MURRIETA VALLEY UNIFIED SCHOOL DISTRICT MURRIETA VALLEY HS AUTO LIFT

KEYNOTES

STATE OF CALIFORNIA OUTDOOR LIGHTING CERTIFICATE OF COMPLIANCE. PROJECT: MURRIETA VALLEY HIGH SCHOOL AUTO SHOP UPGRADES. DATE: 2/10/2017.

STATE OF CALIFORNIA OUTDOOR LIGHTING CERTIFICATE OF COMPLIANCE. PROJECT: MURRIETA VALLEY HIGH SCHOOL AUTO SHOP UPGRADES. DATE: 2/10/2017.

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STATE OF CALIFORNIA OUTDOOR LIGHTING CONTROLS CERTIFICATE OF COMPLIANCE. PROJECT: MURRIETA VALLEY HIGH SCHOOL AUTO SHOP UPGRADES. DATE: 2/10/2017.

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STATE OF CALIFORNIA OUTDOOR LIGHTING CONTROLS CERTIFICATE OF COMPLIANCE. PROJECT: MURRIETA VALLEY HIGH SCHOOL AUTO SHOP UPGRADES. DATE: 2/10/2017.

STATE OF CALIFORNIA OUTDOOR LIGHTING POWER ALLOWANCES CERTIFICATE OF COMPLIANCE. PROJECT: MURRIETA VALLEY HIGH SCHOOL AUTO SHOP UPGRADES. DATE: 2/10/2017.

FILE NUMBER: 04-119595 IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT APP NO. 04 - 115995 INCR. AC\_SL\_FL5\_JA\_SS\_DW DATE: 05/02/2017

STATE OF CALIFORNIA OUTDOOR LIGHTING POWER ALLOWANCES CERTIFICATE OF COMPLIANCE. PROJECT: MURRIETA VALLEY HIGH SCHOOL AUTO SHOP UPGRADES. DATE: 2/10/2017.

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STATE OF CALIFORNIA OUTDOOR LIGHTING POWER ALLOWANCES CERTIFICATE OF COMPLIANCE. PROJECT: MURRIETA VALLEY HIGH SCHOOL AUTO SHOP UPGRADES. DATE: 2/10/2017.

JOHNSON CONSULTING ENGINEERS, INC. Power | Lighting | Multimedia Communications | Data Networking. 12875 Brookprinter Place, Suite 300 Poway, CA 92064 P 858.679.4030 F 858.619.0559 www.jce-inc.com

TITLE 24 COMPLIANCE FORMS

NO. DATE ISSUE PROJECT NO. 13013 DATE: 05/02/2017

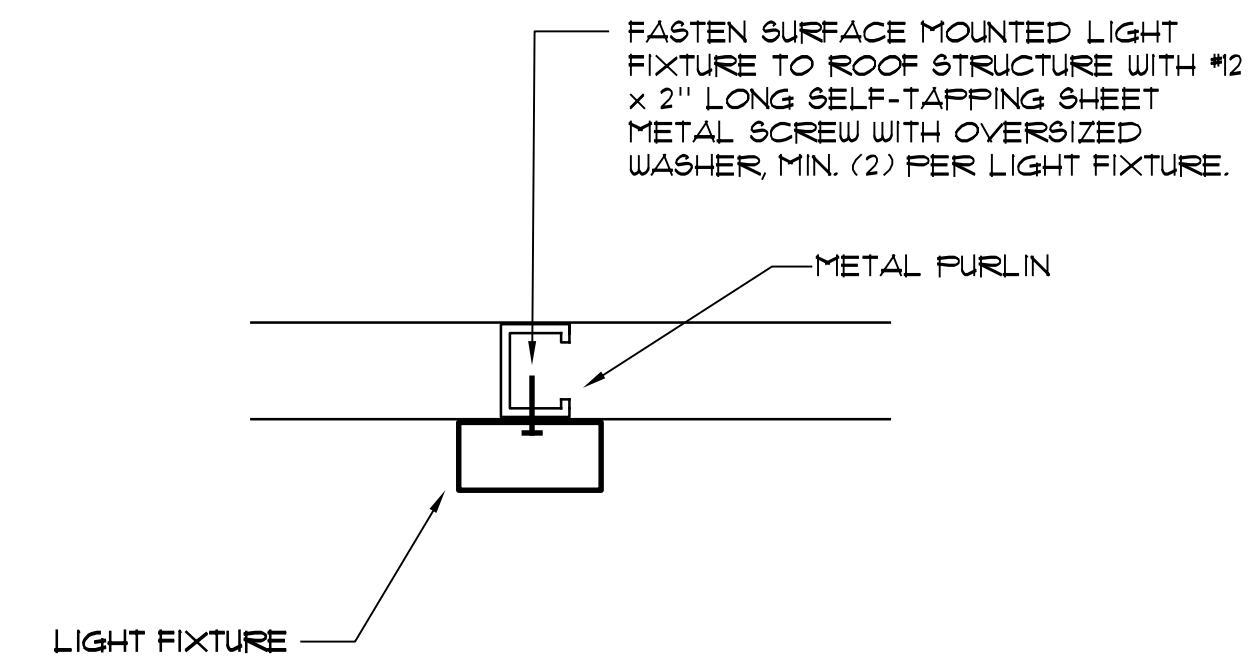
DRAWING E2.0

KEYNOTES  
**GENERAL NOTES:**

- ALL EXPOSED CONDUIT SHALL BE RGS.
- LETTERS IN OR ADJACENT TO EACH FIXTURE OR FIXTURE ROW INDICATES SWITCH AND OR OCCUPANCY SENSOR WHICH CONTROLS THE LIGHTING FIXTURE.
- CIRCUIT HOMERUNS ARE INDICATED TO SHOW THE LOCATION AND NUMBER OF CIRCUITS TO BE GROUPED TOGETHER.
- PROVIDE MINIMUM 1/2" CONDUIT AND #2 CIRCUIT CONDUCTORS AS REQUIRED TO CONNECT EACH LIGHTING FIXTURES TO THEIR INDICATED CONTROL DEVICES. (CON)

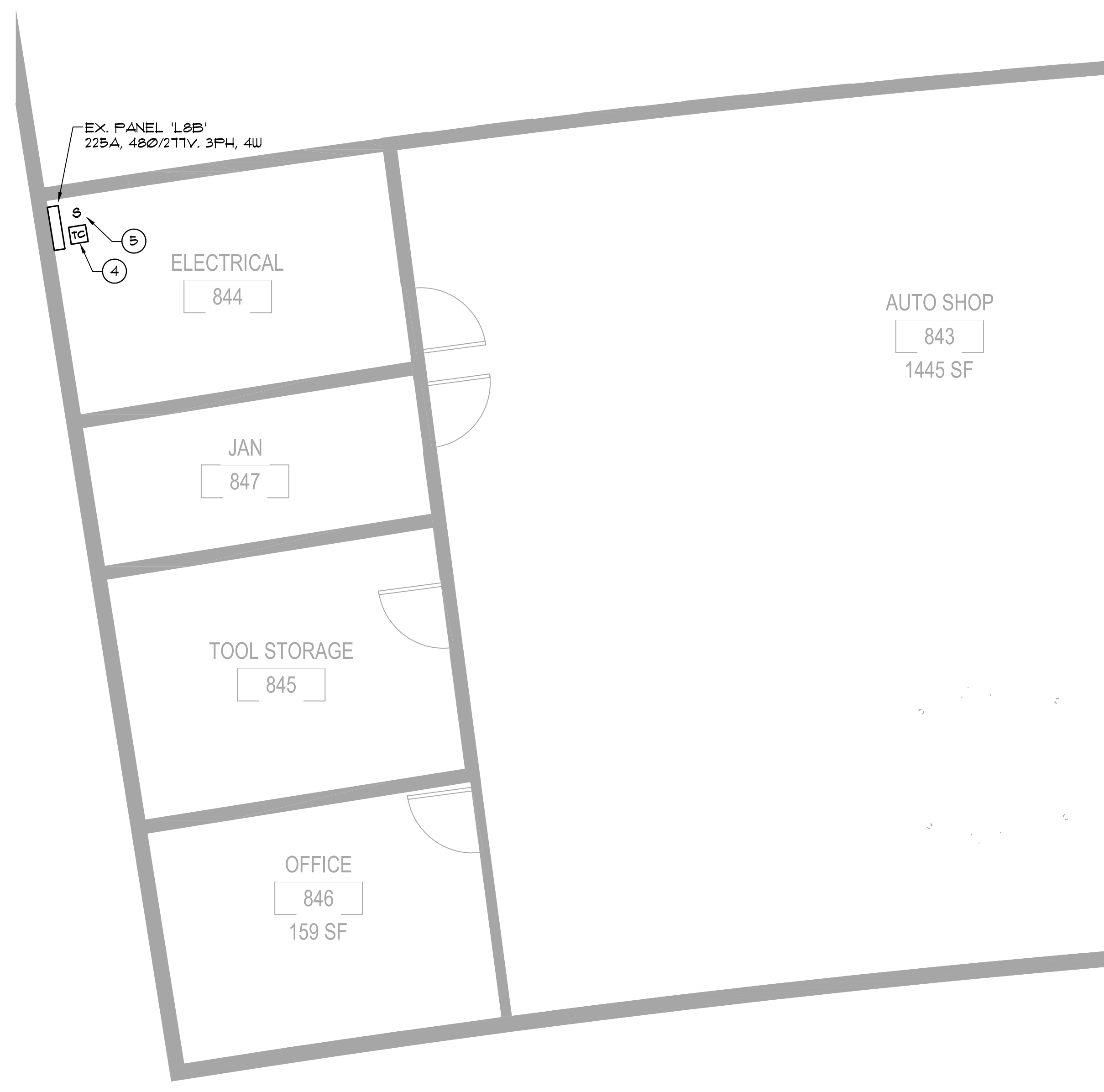
- KEY NOTES:**
- FIXTURES MOUNTED TO BOTTOM OF BEAM.
  - (1) #2 (HOT), (1) #10 (NEUTRAL), (1) #2 (GND), 3/4" C.
  - ROUTE THROUGH NEW TIMECLOCK MOUNTED ABOVE PANEL 'L8B'.
  - NEW ASTRONOMICAL TIMECLOCK SEE SPECIFICATIONS.
  - MANUAL OVERRIDE SWITCH FOR TIMECLOCK CONTROL.

Mark		Approved Manufacturer's (See Key Note No.1)	Catalog Series Type (See Key Note No.2)	FIXTURE		MOUNTING						Description	
				OTHER	LED	Recessed / Surface / Ceiling	Recessed / Wall	Pendant / Chain	Surface / Wall	Pole			
A	ILP	WTZ LED SERIES	DRIVER 120/277V 0-10v Dim	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6 7/9"W X 4 3/8"D X 51 2/3"L ENCLOSED AND GASKETED FIBERGLASS LED FIXTURE WITH RIBBED FROSTED ACRYLIC LENS, WET LISTED. MINIMUM 7300 LUMENS AT A CCT OF 4000 KELVIN. DRIVER VOLTAGE UNIVERSAL WITH PRE-SET 40% DIMMING OCCUPANCY SENSOR OPTION.  <input type="checkbox"/> Provide custom color finish, to be selected at time of submittal <input type="checkbox"/> Provide emergency battery backup	<div style="border: 1px solid black; border-radius: 50%; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;"> <span style="font-size: 10px;">1</span> E2.1                 </div>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				



**NOTE:**  
1. REFERENCE CARPORT SHADE STRUCTURE PLANS FOR TYPE OF CEILING STRUCTURE AT ALL FIXTURE LOCATIONS.

**SURFACE MOUNTED FIXTURE MOUNTING DETAIL**  
NO SCALE



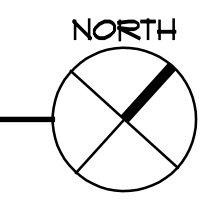
FILE NUMBER: 03-1118  
IDENTIFICATION STAMP  
DIVISION OF THE STATE ARCHITECT  
APP. NO. 04 - 115995 INCR.  
AC, SL, FLS, SA, SS, DW  
DATE: 05/02/2017

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DIVISION OF THE STATE ARCHITECT  
OFFICE OF REGULATION SERVICES  
APPL. # 04-115995  
AC, FLS, SS  
DATE:

**LIGHTING PLAN /  
FIXTURE SCHEDULE**

NO. DATE ISSUE PROJECT NO. 13013  
DATE: 05/02/2017





MURRIETA VALLEY UNIFIED SCHOOL  
DISTRICT  
MURRIETA VALLEY HS AUTO LIFT

EQUIPMENT ELEC SCHEDULE						
MARK	VOLTAGE/ PHASE	CONDUIT/WIRE	FUSE	DISC. SWITCH	PANEL	DESCRIPTION
A1	200/1	3/4" C., (2) #10, (1) #10 GND	25	2P/30/3R	P8N	CARTRIDGE LIFT - 2HP (12 FLA) ①
A2	200/1	3/4" C., (2) #10, (1) #10 GND	25	2P/30/3R	P8N	4 POST LIFT - 2HP (12 FLA) ①
A3	200/1	3/4" C., (2) #10, (1) #10 GND	25	2P/30/3R	P8N	2 POST LIFT - 2HP (12 FLA) ①

① INSTALL PER MANUFACTURER'S INSTRUCTIONS.

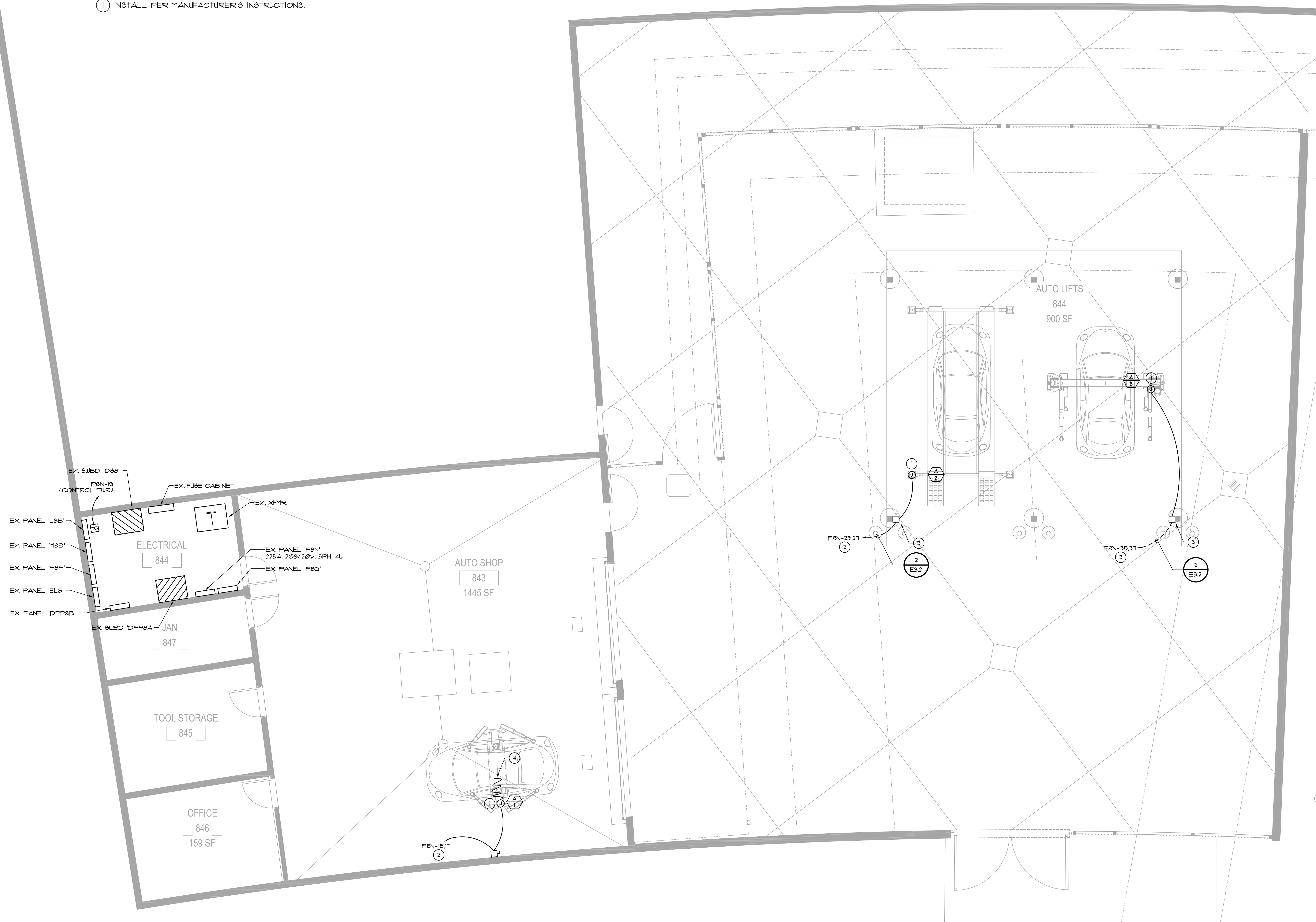
KEYNOTES

GENERAL NOTES:

- REFERENCE ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT LOCATION OF ALL WALL MOUNTED POWER DEVICES WHERE INDICATED AT MOUNTING HEIGHTS OTHER THAN #8'.
- ALL EXPOSED CONDUIT SHALL BE RGS.
- NUMBERS ADJACENT TO EACH POWER DEVICE INDICATES THE CIRCUIT NUMBER TO WHICH THE DEVICE IS TO BE CONNECTED.
- CIRCUIT HOMERUNS ARE INDICATED TO SHOW THE LOCATION AND NUMBER OF CIRCUITS TO BE GROUPED TOGETHER.
- PROVIDE MINIMUM 1/2" CONDUIT AND #2 CIRCUIT CONDUCTORS AS REQUIRED TO CONNECT EACH POWER DEVICE TO THEIR INDICATED CIRCUIT (U.O.N.).
- FIELD VERIFY EXACT ROUTING LOCATION FOR CONCEALED CONDUITS AND RECEPTACLES PRIOR TO ROUGH-IN.

KEY NOTES:

- FIELD VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
- REFER TO EQUIPMENT SCHEDULE FOR WIRING REQUIREMENTS.
- MOUNT DISCONNECT ON COLUMN.
- PROVIDE SEALTIGHT FLEX CONNECTION TO UNIT.



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AC SL FLS JA SS DW  
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#3027 5/1/2017

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DIVISION OF THE STATE ARCHITECT  
OFFICE OF REGULATION SERVICES  
APPL# 04-115995  
AC FLS SS  
DATE:

POWER PLAN

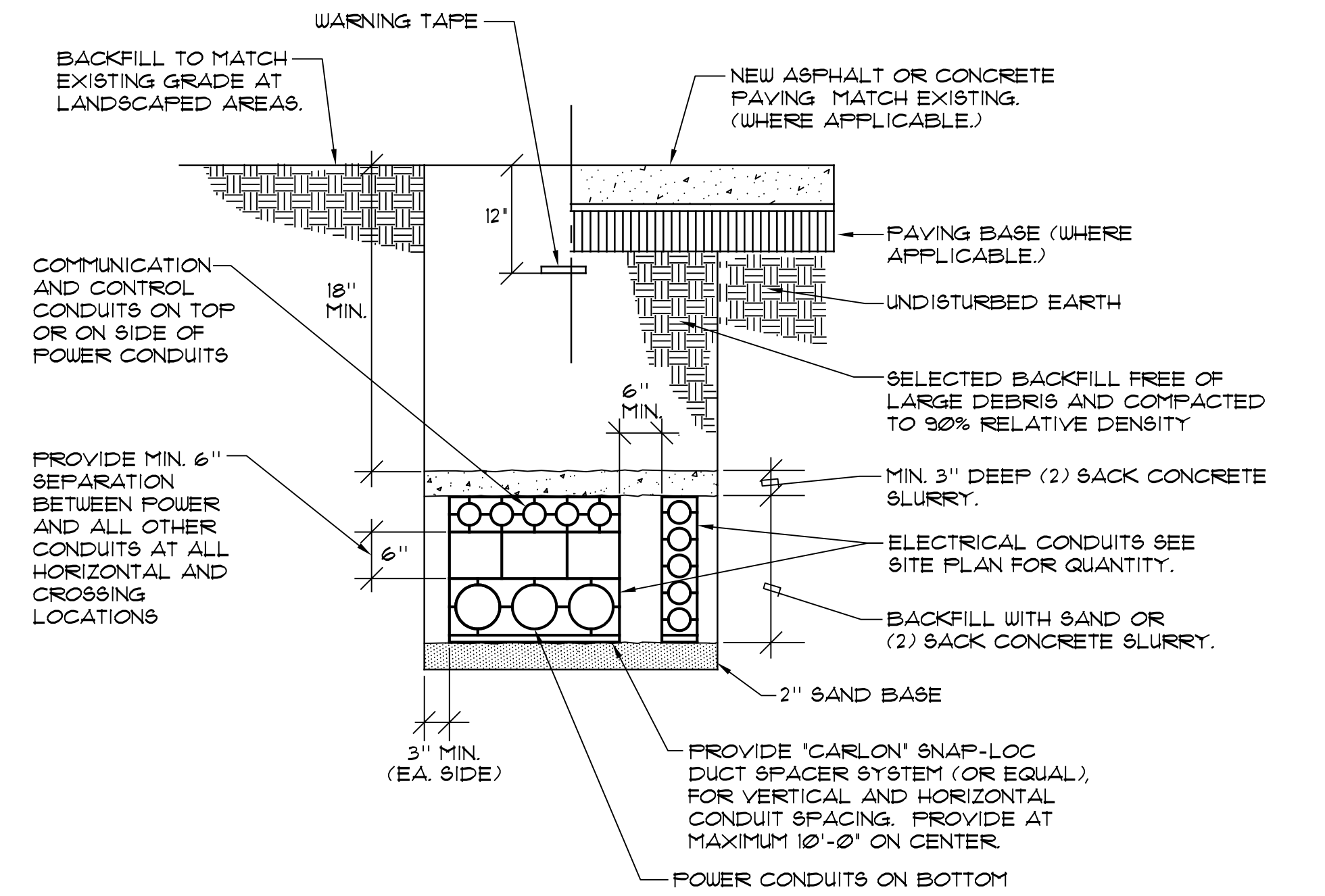
NO. DATE ISSUE PROJECT NO. 13013  
DATE: 05/02/2017

DRAWING  
E3.1

KEYNOTES

KEY NOTES:

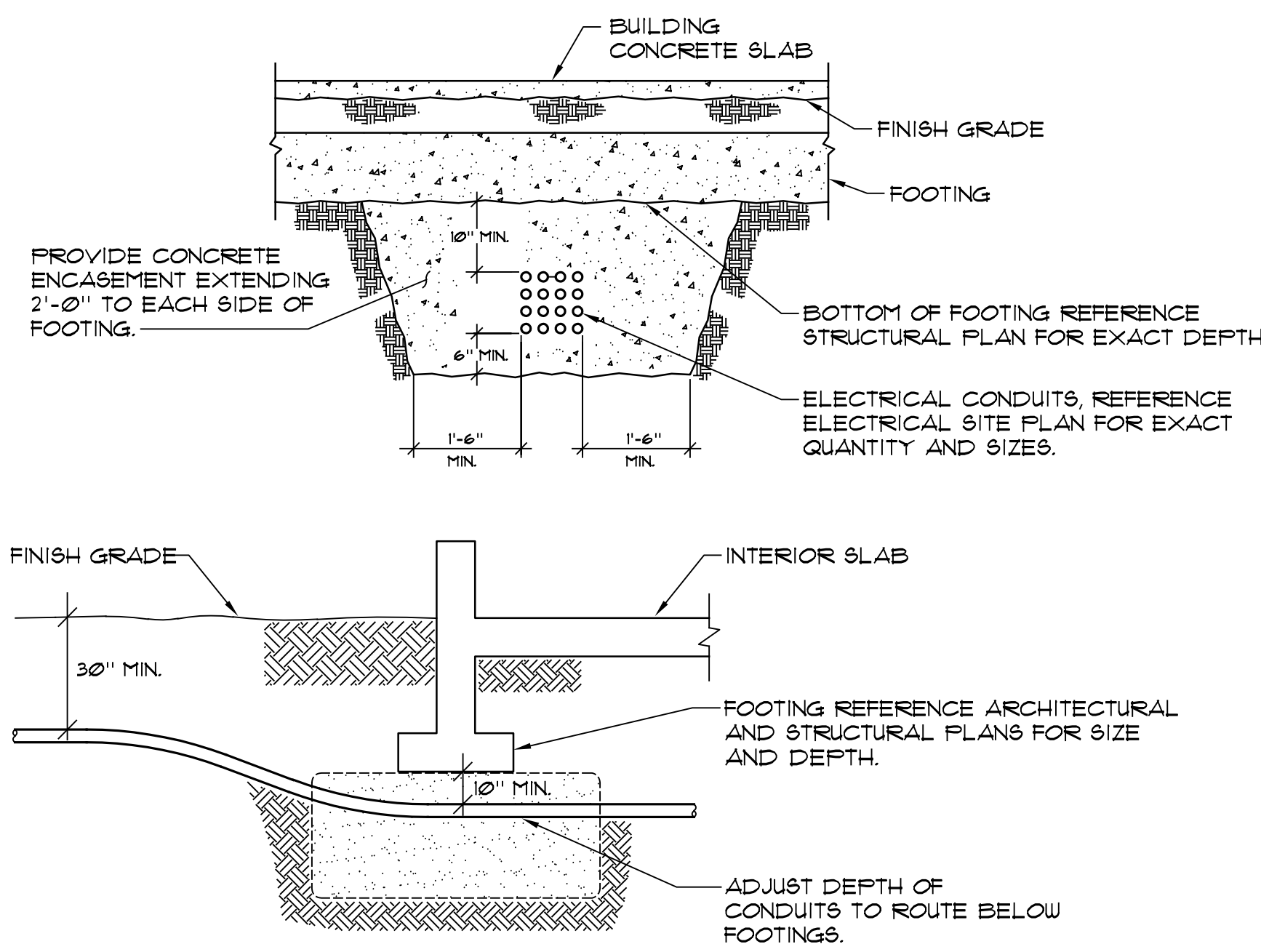
- 1 REPLACE EXISTING 20A/1P CIRCUIT BREAKERS WITH NEW 30A/2P CIRCUIT BREAKERS. MATCH EXISTING MANUFACTURER AND RATING.



TYPICAL TRENCH DETAIL

NO SCALE

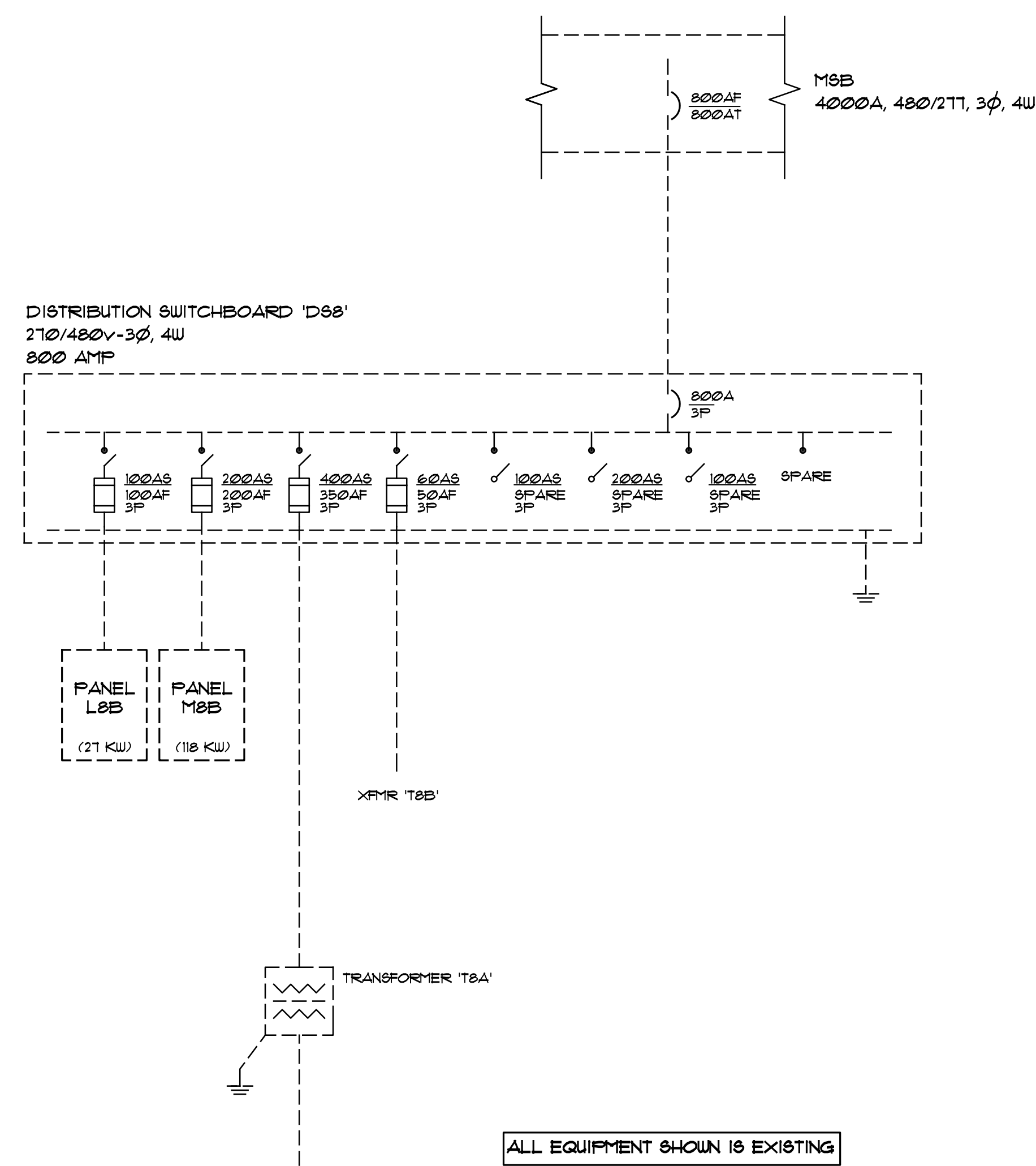
2  
E3.2



UNDERGROUND CONDUIT - INSTALLATION AT BUILDING FOOTING

NO SCALE

3  
E3.2



ELECTRICAL ONE-LINE DIAGRAM

NO SCALE

1  
E3.2

EX P8N		120/208 3PH, 4WIRE	225 AMP	Main	Breaker	ENCLOSURE TYPE	ENCLOSURE NOTE								
LCL	NHL	CIRCUIT DESCRIPTION	AMP	POLE	NO	PHASE A	PHASE B	PHASE C	NO	AMP	POLE	CIRCUIT DESCRIPTION	LCL	NHL	
X	X	EX. PARIS WASHER	20	1	1	800	800		2	20	1	EX. OUTLETS		X	
X	X	EX. OUTLETS	20	1	3	800	800		4	20	1	EX. OUTLETS		X	
X	X	EX. OUTLETS	20	1	5	800	800		6	20	1	EX. OUTLETS		X	
X	X	EX. OUTLETS	20	1	7	800	800		8	20	1	EX. OUTLETS		X	
		SPARE	20	1	9	800	800		10	20	1	EX. OUTLETS		X	
X	X	EX. DRILL PRESS	30	1	11	800	2500		12	20	1	EX. OUTLETS		X	
X	X	EX. BRAKE LATHE	40	1	13	3350	3300		14	40	3	EX. AIR COMPRESSOR		X	
X	X	CARRIAGE LIFT	30	2	15	3300	1250		16	-	-			X	
X	X		-	-	17		1250		18	-	-	EX. DROP CORD		X	
X	X	TIME CLOCK	20	1	19	800	800		20	20	1	SPARE		X	
X	X	EX. ARC WELDER	90	2	21	6550	6550		22	20	1	EX. WIRE WELDER		X	
X	X	4-POST LIFT	30	2	25	1250	800		24	20	1	EX. DROP CORD		X	
X	X		-	-	27		1250		28	20	1	SPARE		X	
		SPARE	20	1	29		800		30	20	1	EX. DROP CORD		X	
		EX.	20	2	31	1500	1500		32	20	2	LIFT #1		X	
		EX.	-	-	33	1500	1500		34	-	-	LIFT #2		X	
X	X	2-POST LIFT	30	2	35	1250	1500		36	20	2			X	
X	X		-	-	37	1250	1500		38	-	-	SPARE		X	
		SPARE	20	1	39				40	20	1	SPARE		X	
		SPARE	20	1	41				42	20	1	SPARE		X	
SPECIAL PANEL															
NOTE															
NHL= Non Harmonic Load															
LCL= Long Continuous Load															
25% LONG CONTINUOUS LOADS															
SUB PANEL															
SUB PANEL															
Max. Neut. Load															
28 AMPS															
TOTAL LOAD PER PHASE				19050				17800				20600			
HIGH PHS				20600				/ 0.9pf = KVA				120V 190.7 AMPS			
ALL PHASES				57450				/ 0.9pf = KVA				208V/3PH 177.3 AMPS			
DRAWN PER															
NEC 220-34 0 sq. ft.															

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OFFICE OF REGULATION SERVICES  
APPL. # 04-115995  
AC, FLS, SS  
DATE:

PARTIAL ONE-LINE  
DIAGRAM & PANEL  
SCHEDULE

NO. DATE ISSUE PROJECT NO. 13013  
DATE: 05/02/2017

DRAWING  
E3.2

**NATIONAL CARPORT INDUSTRIES**

**John Swanner**

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FAX (903) 892-9098  
www.schoolshelters.com  
johnswanner@nationalcarport.com

# NATIONAL CARPORT SHADE STRUCTURE



4 S.T.E.L. ENGINEERING, INC.  
ENGINEER OF RECORD: DUSTIN ROSEFINK, S 5885  
PROJECT MANAGER: SCOTT KAEDING  
109 EAST ESCALONES  
SAN CLEMENTE, CA. 92672  
PHONE: (949) 388-9333 FAX: (949) 388-3773

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**ASTEEL ENGINEERING**  
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949.388.9333 | FAX 949.388.3773

**NATIONAL CARPORT INDUSTRIES LUNCH SHELTER**  
SCANNED  
FILE # 04-115995  
DATE: 05/02/2017

**AHJ APPROVAL**  
IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
A#04-113723  
AC FL SS DW  
DATE: NOV 04 2014  
DATE: 05/02/2017

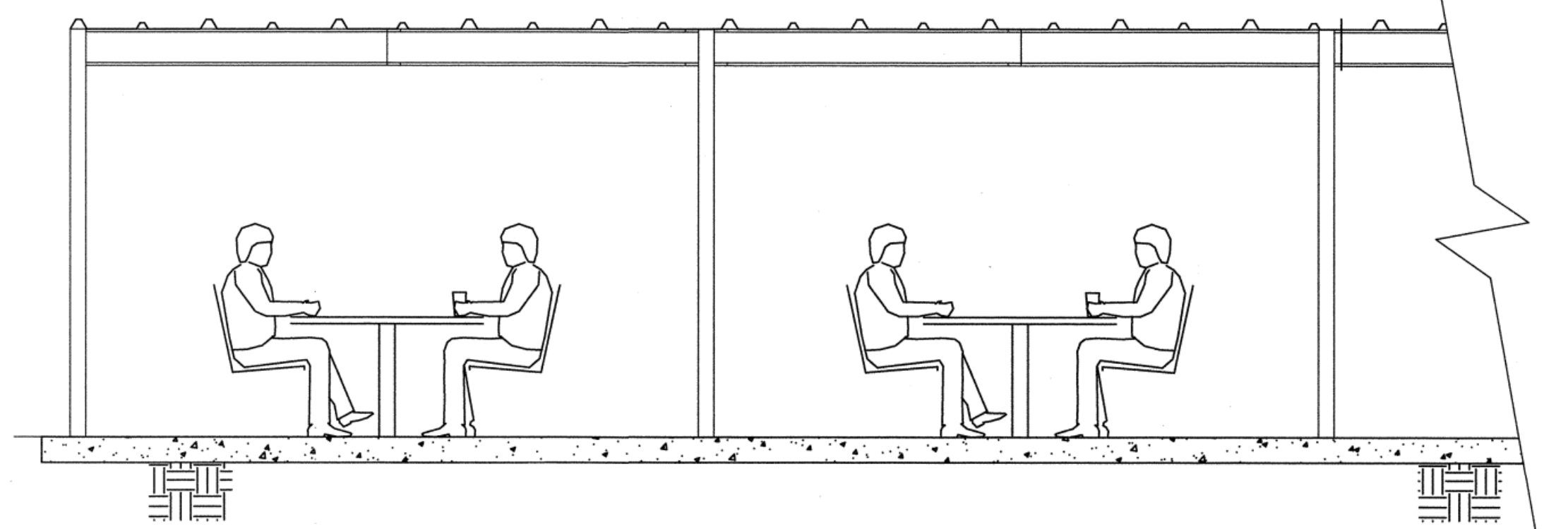
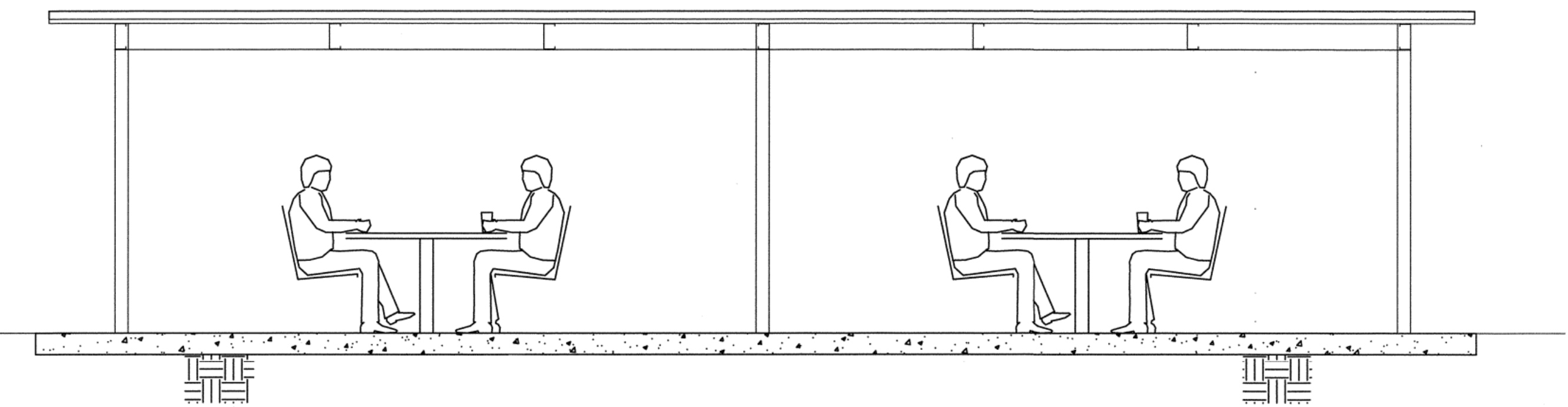
**GENERAL NOTES**  
S-1

IDENTIFICATION STAMP  
DIVISION OF THE STATE ARCHITECT  
APP. NO. 04 - 115995 INCR. :  
AC FL SS DW  
DATE: 05/02/2017

MARK	DATE	DESCRIPTION

4 STEEL JOB # 14-1015  
DATE 11-03-14  
DRAWN BY MAP  
CHECKED DKR

PRE-CHECK (PC) DOCUMENT  
CODE: 2013 CBC  
A SEPARATE PROJECT APPLICATION FOR  
CONSTRUCTION IS REQUIRED.



**GENERAL NOTES:**

- MINIMUM COLUMN EMBEDMENT, (AS PER DETAILS)
  - ALL BEAMS AND ROOF DECK TO BE GALVANIZED BY HOT DIP PROCESS CONFORMING TO ASTM A 123-02.
  - COLUMNS TO BE FIELD PAINTED, PRIMED & FINISH, BY OTHERS OR GALVANIZED COAT.
  - GUAGE SIZE USED BASED ON METAL THICKNESS
  - DESIGN CONFORMS TO APPLICABLE CODES, TITLE 24, CCR, PARTS 1 & 2, 2013 CALIFORNIA BUILDING CODE
- OPTION 1**  
DEAD LOADS:  
SOLAR: 3.0 psf  
DECK: 1.10 psf  
FRAMING: 1.33 psf  
TOTAL DEAD LOAD: 5.43 psf
- ROOF LIVE LOAD (Lr):  
WITH SOLAR PANELS INSTALLED 0 psf (PER I.R. 16-B)  
ROOF DECK 20 psf  
POINT LOAD 300 lb (PER I.R. 16-B)
- SNOW LOAD:  
GROUND 20 psf
- WIND:**  
BASIC WIND SPEED (3 SECOND GUST): 115 mph  
RISK CATEGORY: III  
WIND IMPORTANCE FACTOR: 1.15  
WIND EXPOSURE: C  
INTERNAL PRESSURE: N/A  
(OPEN STRUCTURE)  
G = .85  
Kd = 0.85  
Kz = 0.86  
Kzt = 1.00
- COMPONENTS & CLADDING:**  
DOWN: 26.62 psf  
UP: 26.96 psf
- SEISMIC:**  
SEISMIC IMPORTANCE FACTOR: 1.25  
SITE CLASS: D  
SEISMIC DESIGN CATEGORY: E  
SEISMIC FORCE RESISTING: CANTILEVERED COLUMN EQUIVALENT LATERAL FORCE
- ANALYSIS PROCEDURE:  
MAPPED SPECTRAL RESPONSE: Ss = 1.50  
ACCELERATION: Si = 1.39  
SPECTRAL RESPONSE: Sds = 1.0  
COEFFICIENTS: Sdi = 1.39  
RESPONSE MODIFICATION FACTOR: R = 1.25  
DESIGN BASE SHEAR: V = 1,917.3 lbs  
SEISMIC RESPONSE COEFFICIENT: Cs = 1.00
- MAPPED SPECTRAL RESPONSE: Ss = 3.00  
ACCELERATION: Si = 1.39  
SPECTRAL RESPONSE: Sds = 2.00  
COEFFICIENTS: Sdi = 1.39  
RESPONSE MODIFICATION FACTOR: R = 2.5  
DESIGN BASE SHEAR: V = 1,972.3 lbs  
SEISMIC RESPONSE COEFFICIENT: Cs = 1.00

- OPTION 2**  
DEAD LOADS:  
SOLAR: 3.0 psf  
DECK: 1.10 psf  
FRAMING: 1.33 psf  
TOTAL DEAD LOAD: 5.43 psf
- ROOF LIVE LOAD (Lr):  
WITH SOLAR PANELS INSTALLED 0 psf (PER I.R. 16-B)  
ROOF DECK 20 psf  
POINT LOAD 300 lb (PER I.R. 16-B)
- SNOW LOAD:  
GROUND 20 psf
- WIND:**  
BASIC WIND SPEED (3 SECOND GUST): 115 mph  
RISK CATEGORY: III  
WIND IMPORTANCE FACTOR: 1.15  
WIND EXPOSURE: C  
INTERNAL PRESSURE: N/A  
(OPEN STRUCTURE)  
G = .85  
Kd = 0.85  
Kz = 0.86  
Kzt = 1.00
- COMPONENTS & CLADDING:**  
DOWN: 26.62 psf  
UP: 26.96 psf
- SEISMIC:**  
SEISMIC IMPORTANCE FACTOR: 1.25  
SITE CLASS: D  
SEISMIC DESIGN CATEGORY: E  
SEISMIC FORCE RESISTING: CANTILEVERED COLUMN EQUIVALENT LATERAL FORCE
- ANALYSIS PROCEDURE:  
MAPPED SPECTRAL RESPONSE: Ss = 1.50  
ACCELERATION: Si = 1.39  
SPECTRAL RESPONSE: Sds = 1.0  
COEFFICIENTS: Sdi = 1.39  
RESPONSE MODIFICATION FACTOR: R = 1.25  
DESIGN BASE SHEAR: V = 2,922.8 lbs  
SEISMIC RESPONSE COEFFICIENT: Cs = 1.00
- MAPPED SPECTRAL RESPONSE: Ss = 3.00  
ACCELERATION: Si = 1.39  
SPECTRAL RESPONSE: Sds = 2.00  
COEFFICIENTS: Sdi = 1.39  
RESPONSE MODIFICATION FACTOR: R = 2.5  
DESIGN BASE SHEAR: V = 2,977.7 lbs  
SEISMIC RESPONSE COEFFICIENT: Cs = 1.00

- SCREWS TO BE TEK SELF-DRILLING TAPPING SCREWS ICC # ESR-1976. AS MFG. BY ITW BUILDEX. SELF DRILLING SCREWS ARE REFERRED TO AS SDS. SHEET METAL SCREWS ARE REFERRED TO AS SMS.
- ALL INDEPENDENT TESTING AND INSPECTION SHALL BE PAID FOR AND SCHEDULED BY THE OWNER.
- NO ELECTRICAL WORK INCLUDED.
- CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDA OR A CONSTRUCTION CHANGE DOCUMENT APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
- A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTIONS OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SEC. 4-342, PART 1, TITLE 24, CCR. MINIMUM CLASS II INSPECTOR SHALL BE HIRED.
- OWNER TO SIGN DRILLING RELEASE BEFORE WORK.
- PROCEEDS  
SOLAR PANELS AND CONNECTIONS DESIGNED BY OTHERS; SOLAR PANELS AND ANY MATERIALS USED TO ATTACH SOLAR PANELS TO THE STRUCTURE MUST HAVE A TOTAL WEIGHT OF LESS THAN OR EQUAL TO 3.0 PSF. SOLAR PANELS MUST MEET CLASS "B" ROOFING MIN REQUIREMENTS PROVIDE CUT-SHEET OF MATERIAL AT BACK CHECK.
- CUSTOM SIZES & LOADING REQUIRE SUPPLEMENTARY SHOP DRAWINGS & CALCULATIONS
- IF SNOW LOAD IS USED THEN Pg, Pf, Ps, Ce, I, Ct SHALL BE USED ON SITE SPECIFIC PLANS.
- STRUCTURE HAVE NOT BEEN DESIGNED FOR DRIFT LOADS. IF SITE SPECIFIC SNOW LOAD EXISTS, STRUCTURES SHALL MAINTAIN A 20' MINIMUM SEPARATION DISTANCE OF THE ROOF AND HIGHER STRUCTURES OR TERRAIN FEATURES. NO WELDING.
- ALL DIMENSIONS ON FOUNDATION AND FRAMING PLANS ARE MEASURED ALONG SLOPE OF STRUCTURE.

**SOLAR NOTES**

- MODULES TO BE PARALLEL TO ROOF SURFACE/ SLOPE.
- MAX EXTENT OF MODULES NOT TO EXCEED MAX PLAN VIEW DIMENSION.
- SITE SPECIFIC CLIP DETAIL TO BE PROVIDED BY OTHERS AT TIME OF SPECIFIC PROJECT SUBMITTAL.
- SITE SPECIFIC PANEL LAYOUT TO BE PROVIDED BY OTHERS AT TIME OF SPECIFIC PROJECT SUBMITTAL.

**BUILDING DATA**

A - 2/ A - 3 OCCUPANCY. RISK CATEGORY III AND LOWER  
II - B CONSTRUCTION - NONCOMBUSTIBLE CONSTRUCTION CLASS A ROOFING  
HEIGHT = PER COLUMN SCHEDULE  
THIS BUILDING SHALL COMPLY TO SECTION 3104 AND TABLE 503 OF THE 2013 C.B.C.

**DRAWING INDEX**

- SHEET 5-1 - GENERAL NOTES
- SHEET 5-2 - GENERAL NOTES
- SHEET 5-3 - FRAMING/FOUNDATION PLAN (OPTION 1)
- SHEET 5-4 - FRAMING/FOUNDATION PLAN (OPTION 2)
- SHEET 5-5 - ELEVATIONS
- SHEET 5-6 - CONNECTION DETAILS
- SHEET 5-7 - FOUNDATION DETAILS
- SHEET 5-8 - COLUMN & FOOTING SCHEDULE
- SHEET 5-9 - TESTING & INSPECTION REQUIREMENTS
- SHEET 5-10 - CONNECTION DETAILS

**CODES**

- TITLE 24 CODES:  
2013 CALIFORNIA ADMINISTRATIVE CODE (CAC) .....(PART 1, TITLE 24, CCR)  
2013 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1 AND 2.....(PART 2, TITLE 24, CCR)  
(2012 INTERNATIONAL BUILDING CODE WITH 2013 CALIFORNIA AMENDMENTS)  
2013 CALIFORNIA ELECTRICAL CODE .....(PART 3, TITLE 24, CCR)  
(2011 NATIONAL ELECTRICAL CODE WITH 2013 CALIFORNIA AMENDMENTS)  
2013 CALIFORNIA MECHANICAL CODE (CMC) .....(PART 4, TITLE 24, CCR)  
(2012 UNIFORM MECHANICAL CODE WITH 2013 CALIFORNIA AMENDMENTS)  
2013 CALIFORNIA PLUMBING CODE (CPC) .....(PART 5, TITLE 24, CCR)  
(2012 UNIFORM PLUMBING CODE WITH 2013 CALIFORNIA AMENDMENTS)  
2013 CALIFORNIA ENERGY CODE .....(PART 6, TITLE 24, CCR)  
(2008 EDITION CALIFORNIA ENERGY COMMISSION BUILDING ENERGY EFFICIENCY STANDARDS)  
2013 CALIFORNIA FIRE CODE (CFC) .....(PART 9, TITLE 24, CCR)  
(2012 INTERNATIONAL FIRE CODE WITH 2013 CALIFORNIA AMENDMENTS)  
2013 CALIFORNIA GREEN BUILDING STANDARDS CODE .....(PART 11, TITLE 24, CCR)  
2013 CALIFORNIA REFERENCED STANDARDS CODE .....(PART 12, TITLE 24, CCR)
- NFPA 13 - 2013  
NFPA 72 - 2013
- REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS:  
2013 CBC, CHAPTER 35  
2013 CFC, CHAPTER 47

**CONCRETE NOTES**

1. CONCRETE MIN. 3000 psi AT 28 DAYS. (NOTE: DESIGN BASED ON 3000 psi) IF 3500 psi OR GREATER IS UTILIZED, CONTINUOUS BATCH PLANT INSPECTION MAY BE WAIVED PER 2013 CBC 1705A.3.3 AND PERIODIC INSPECTION SHALL COMPLY WITH NOTE 10.
2. CONCRETE TO REACH 1000 psi PRIOR TO REMOVAL OF SHORING AND/OR INSTALLATION OF BEAMS AND PURLINS. (NOTE: A HIGHER COMPRESSIVE CONCRETE MAY BE USED TO ACHIEVE 1000 psi SOONER. SUBMIT AN APPROVED CONCRETE MIX DESIGN TO JUSTIFY)
3. CONCRETE TO REACH 3000 psi PRIOR TO INSTALLATION OF SOLAR PANELS. (NOTE: A HIGHER COMPRESSIVE CONCRETE MAY BE USED TO ACHIEVE 3000 psi SOONER. SUBMIT AN APPROVED CONCRETE MIX DESIGN TO JUSTIFY)
4. REINFORCEMENT BARS #5 AND GREATER SHALL BE ASTM A615, GR60. BARS LESS THAN #5 SHALL BE ASTM A615, GR40 MINIMUM.
5. MINIMUM CONCRETE COVER SHALL BE 2 1/2" TO EARTH (DRILLED PIER FOUNDATIONS ONLY), 3" TO EARTH ALL OTHER CONCRETE, 2" TO SKY. PER CBC TABLE 1808A.8.2
6. ALL REINFORCING STEEL AND OTHER EMBEDDED ITEMS SHALL BE SECURELY POSITIONED PRIOR TO THE POURING OF CONCRETE.
7. ALL CONCRETE WORK SHALL COMPLY WITH ACI 301 + 318 LATEST EDITION.
8. AGGREGATE GRADATION AND QUALITY SHALL BE IN ACCORDANCE WITH ACI 302-IR.
9. COLD JOINTS SHALL HAVE A ROUGHENED SURFACE. CONCRETE BONDING AGENT TO BE USED SHALL HAVE A TENSILE STRENGTH EXCEEDING 7.5  $\sqrt{f_c}$ , WHERE  $f_c$  IS THE CONCRETE COMPRESSIVE STRENGTH OF THE SITE SPECIFIC CONCRETE BEING USED. A SUBMITTAL FOR CONCRETE BONDING AGENT SHALL BE APPROVED BY DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO INSTALLATION. DSA INSPECTOR OF RECORD TO PERIODICALLY INSPECT INSTALLATION OF BONDING AGENT.
10. WHEN CONTINUOUS BATCH PLANT INSPECTION IS WAIVED, THE FOLLOWING PERIODIC INSPECTION REQUIREMENTS SHALL APPLY:
  - QUALIFIED TECHNICIAN OF THE TESTING LABORATORY SHALL CHECK THE FIRST BATCH AT THE START OF THE DAY.
  - LICENSED WEIGHMASTER TO POSITIVELY IDENTIFY MATERIALS AS TO QUANTITY AND CERTIFY TO EACH LOAD BY A BATCH TICKET.
  - BATCH TICKETS, INCLUDING MATERIAL QUANTITIES AND WEIGHTS SHALL ACCOMPANY THE LOAD, SHALL BE TRANSMITTED TO THE INSPECTOR OF RECORD BY A TRUCK DRIVER WITH LOAD IDENTIFIED THEREON. THE LOAD SHALL NOT BE PLACED WITHOUT A BATCH TICKET IDENTIFYING THE MIX. THE INSPECTOR WILL KEEP A DAILY RECORD OF PLACEMENTS, IDENTIFYING EACH TRUCK, ITS LOAD, AND TIME OF RECEIPT, AND APPROXIMATE LOCATION OF DEPOSIT IN THE STRUCTURE AND WILL TRANSMIT A COPY OF THE DAILY RECORD TO THE ENFORCEMENT AGENCY.
11. CONCRETE MAY BE PUMPED, POURED, TREMIED, TAILGATED, FUNNELED OR OTHER SUCH METHODS INTO PLACE. CONCRETE SHALL BE ALLOWED TO FREE FALL THE ENTIRE DEPTH OF THE FOUNDATION. PLACEMENT OF ANY FREE-FALL CONCRETE SHALL BE SUCH THAT THE CONCRETE DOES NOT ALTER THE EMBEDMENT DEPTH OR THE CLEARANCE OF THE REINFORCING BAR CAGE OR OTHER EMBEDDED MATERIALS.

**SOILS NOTES**

1. FOUNDATION SELECTIONS TO BE BASED ON CLASS W SOILS (SOIL CLASS 5 OF CBC TABLE 1806A.2) IN THE SOIL CLASS TABLE BELOW UNLESS A GEOTECHNICAL REPORT IS SUBMITTED WITH SITE-SPECIFIC PARAMETERS.
2. THE SITE-SPECIFIC GEOTECHNICAL REPORT IS TO BE SPECIFIC TO THE LOCATION OF THE PHOTOVOLTAIC STRUCTURES. BORING SHALL BE DONE AT THE SPECIFIC LOCATION WHERE THE PHOTOVOLTAIC STRUCTURES ARE TO OCCUR. THE GEOTECHNICAL REPORT SHALL CONFORM WITH CBC SECTION 1803A
3. THE SITE-SPECIFIC GEOTECHNICAL REPORT SHALL SPECIFY THAT THE LATERAL BEARING PRESSURE IS PERMITTED TO BE INCREASED BY ONE-THIRD WHERE USED WITH THE ALTERNATIVE BASIC LOAD COMBINATION OF CBC SECTION 1605A.3.2 THAT INCLUDE WIND OR EARTHQUAKE LOADS.
4. THE SITE SPECIFIC GEOTECHNICAL ENGINEER SHALL SPECIFY WHETHER THE LATERAL BEARING PRESSURE DOES OR DOES NOT ACT OVER A PROJECTED AREA EQUAL TO TWO TIMES THE PIER DIAMETER. IF THE LATERAL BEARING PRESSURE DOES, THE LATERAL BEARING PRESSURE IS PERMITTED TO BE DOUBLED.
5. ALL STRUCTURES ARE PERMITTED TO HAVE THE INCREASE OF THE LATERAL BEARING PRESSURES OF CBC SECTION 1806A.3.4 (DOUBLE THE ALLOWABLE LATERAL BEARING PRESSURE IF GROUND MOTION OF 1/2" DOES NOT ADVERSELY AFFECT THE STRUCTURE). GEOTECHNICAL ENGINEER TO ADDRESS IF ALLOWABLE TO DOUBLE LATERAL BEARING PRESSURE IN REPORT.
6. GEOTECHNICAL ENGINEER TO SPECIFICALLY ADDRESS IF NOTES 5 & 6 MAY BE APPLIED SIMULTANEOUSLY. (SAMPLE: ALLOWABLE LATERAL BEARING PRESSURE OF 100 psf/ft MAY BE USED AT THIS SITE WITH AN ALLOWABLE INCREASE FOR 1/2" GROUND MOTION DOUBLING THE ALLOWABLE LATERAL BEARING TO 200 psf/ft. ADDITIONALLY, DUE TO THE FOUNDATION PIER SPACING, IT IS ACCEPTABLE TO DOUBLE TO ALLOWABLE LATERAL PRESSURE TO 400 psf/ft.)
7. THE SITE-SPECIFIC GEOTECHNICAL REPORT SHALL STATE THE ALLOWABLE LATERAL BEARING CAPACITY AND THE ALLOWABLE VERTICAL BEARING CAPACITIES SUCH THAT A CLASS OF SOIL FROM THE BELOW LIST MAY BE SELECTED FOR FOUNDATION SELECTIONS.
8. A COPY OF THE GEOTECHNICAL REPORT SHALL BE PROVIDED AT THE TIME OF PLAN REVIEW.
9. THE SOIL CLASSES IN THE CHART BELOW ARE THE VALUES USED IN THE CALCULATIONS TO DETERMINE THE REQUIRED FOUNDATION DEPTHS. THESE VALUES HAVE NOT BEEN DOUBLED OR ADJUSTED BASED ON SITE-SPECIFIC CONDITIONS. SITE-SPECIFIC SELECTIONS OF SOILS CLASS SHALL BE DETERMINED PER NOTE 11.
10. A SOILS CLASS SHALL BE SELECTED ON THE SITE-SPECIFIC PLANS BASED ON THE FINAL VALUES DETERMINED TO BE ACCEPTABLE BY THE SITE-SPECIFIC GEOTECHNICAL ENGINEER ONCE ALLOWABLE SOILS VALUES HAVE BEEN ADJUSTED APPROPRIATELY PER THE SITE-SPECIFIC GEOTECHNICAL REPORT.

ALLOWABLE BEARING AND LATERAL BEARING		
SOILS CLASS	ALLOWABLE BEARING PRESSURE (psf)	LATERAL BEARING (psf/ft BELOW NATURAL GRADE)
CLASS W	1500	200
CLASS X	2000	300
CLASS Y	2000	400

11. GEOTECHNICAL REPORT TO PROPERLY CONSIDER ALL SOILS NOTES AND PROVIDE FINAL SUMMARIZING RECOMMENDATIONS SPECIFICALLY STATING THE SOILS CLASS TO BE SELECTED FOR THE SITE.

FOR EXAMPLE:  
THE ALLOWABLE VERTICAL BEARING PRESSURE IS 1,500 psf AND MAY BE INCREASED TO 500 psf FOR EACH ADDITIONAL DEPTH BELOW 1'-0" BELOW THE SURFACE.

THE ALLOWABLE LATERAL BEARING PRESSURE IS 100 psf/ft. WITH THE PIER SPACING GREATER THAN 6'-0" O.C. THE LATERAL BEARING PRESSURE MAY BE ASSUMED TO ACT ON TWICE THE DIAMETER OF THE PIER AND UTILIZE A LATERAL BEARING PRESSURE OF 200 psf/ft. SINCE THE STRUCTURES HAVE BEEN DESIGNED TO ACCOMMODATE 1/2" DEFLECTION AT THE GROUND THE ALLOWABLE BEARING PRESSURE MAY BE DOUBLED. THE ALLOWABLE LATERAL BEARING PRESSURE MAY BE DOUBLED TWICE TO A VALUE OF 400 psf/ft. THEREFORE THE SOIL IS CLASS Y AND THE FOUNDATIONS ON SHEET S-8 SHALL BE BASED ON CLASS Y.

**STEEL NOTES**

1. COLD FORMED STEEL SIZES ARE BASED ON GAUGE THICKNESS.
2. PURLINS, BEAMS, POSTS (FRAMING MEMBERS) HAVE MIN. YIELD STRENGTHS AS INDICATED.
3. ZINC COATED CONFORMANCE WITH G60 STANDARD OR BETTER. COLD FORM MEMBERS TO BE GALVANIZED IN ACCORDANCE WITH ASTM A653. TUBE STEEL MEMBERS AND PLATES IN ACCORDANCE WITH ASTM A123.
4. FASTENERS SHALL BE GALVANIZED, CADMIUM PLATED, OR ZINC COATED.
5. ALL BOLTS TO MEET OR EXCEED ASTM A307. NO BOLTING INSPECTIONS REQUIRED.
6. ALL PLATES AND ANGLES TO BE ASTM A36 U.N.O.
7. ALL STRUCTURAL TUBING TO BE ASTM A1085 U.N.O.
8. ALL PURLINS TO BE ASTM A653 GR. 55.
9. ALL MEMBERS TO BE GALVANIZED OR PRIMED AND PAINTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. ALL CONTRACT DOCUMENTS SHALL SPECIFY THE TYPE OF SSPC CORROSION RESISTING SYSTEM TO BE UTILIZED AND THE SSPC GRADE FOR CLEANING, MINIMUM SSPC GRADE SP2.

PRE-CHECK (PC) DOCUMENT  
CODE: 2013 CBC  
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EXP. 06-30-2019  
11-03-14

**NATIONAL CARPORT INDUSTRIES LUNCH SHELTER**

AHJ APPROVAL  
IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
A#04-113723  
AC DK FLS JA SS JK  
DATE NOV 01 2017

REVISIONS

MARK	DATE	DESCRIPTION

4 STEL JOB # 14-1015

DATE 11-03-14

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GENERAL NOTES

S-2

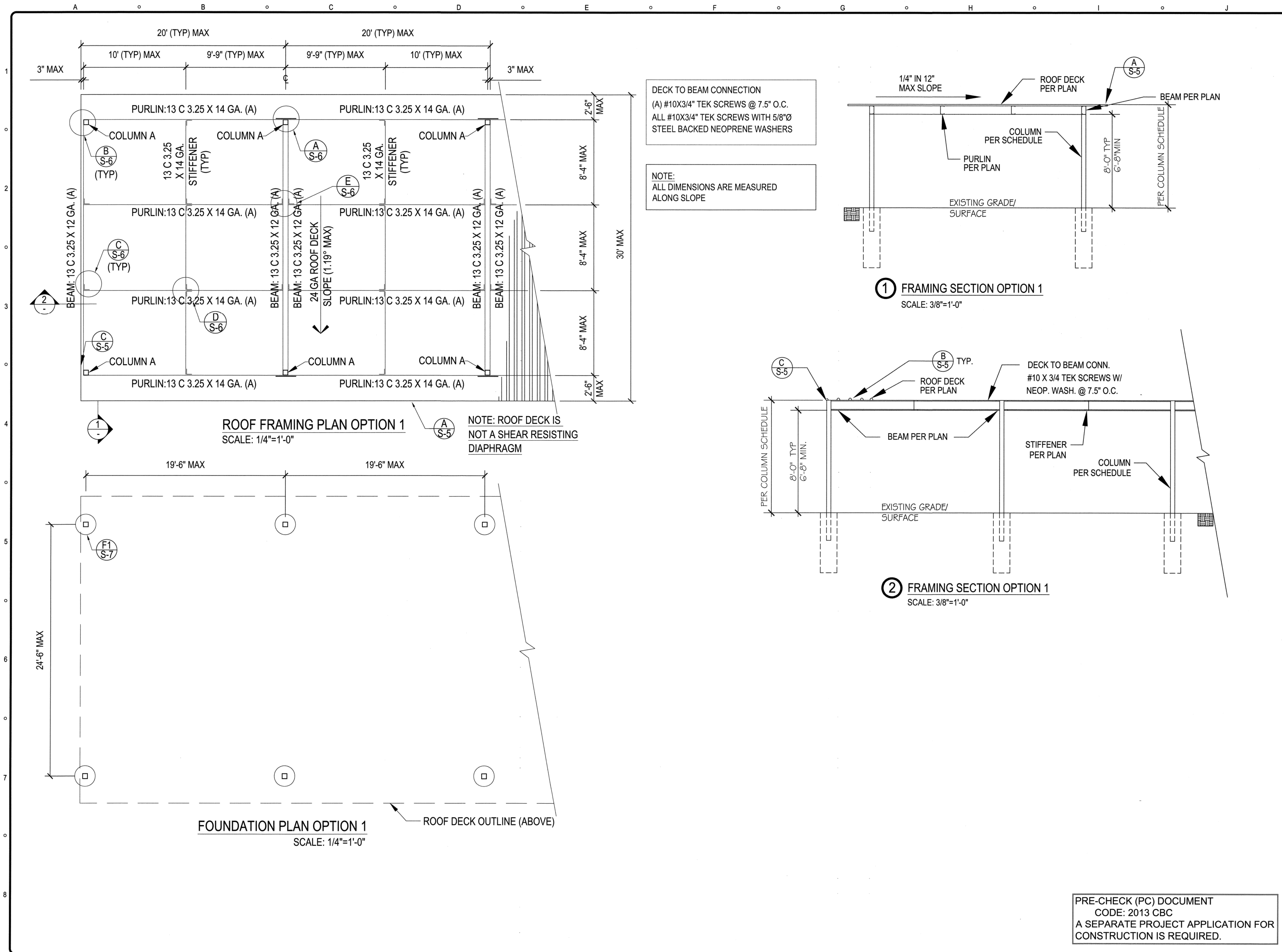
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DATE 05/02/2017

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**NATIONAL CARPORT INDUSTRIES**  
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**FRAMING/FOUNDATION PLAN (OPTION 1)**

**S-3**

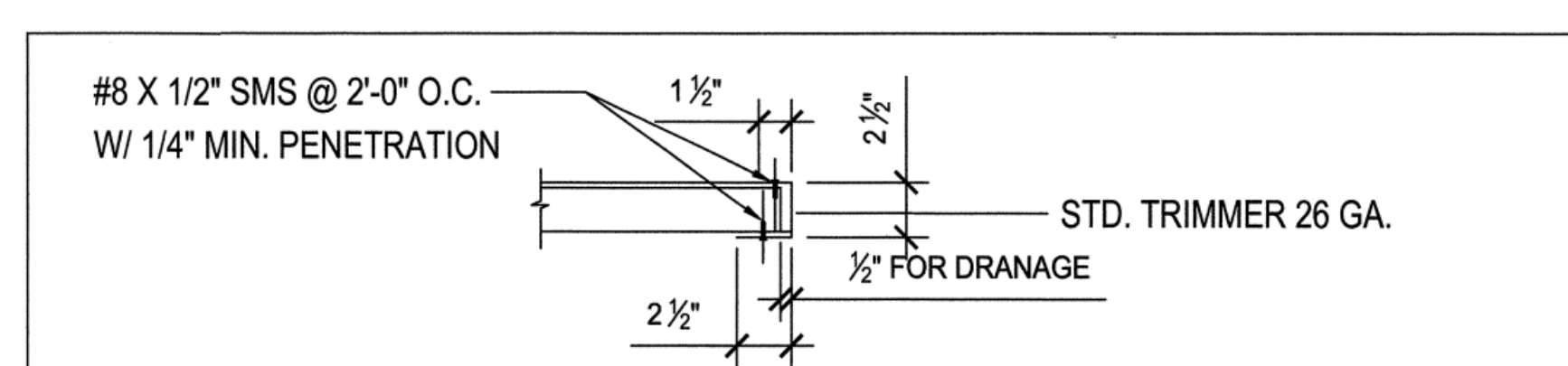
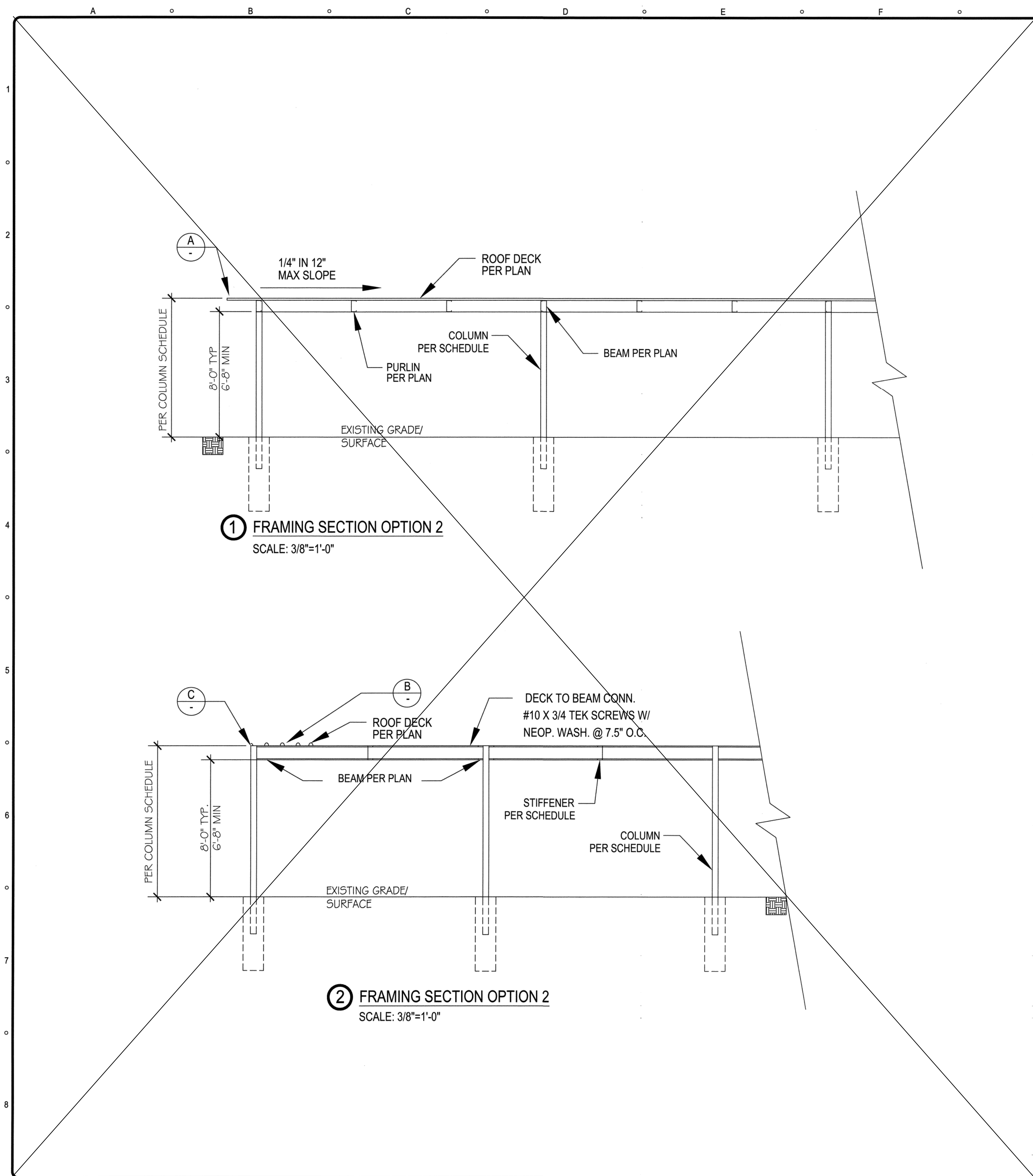
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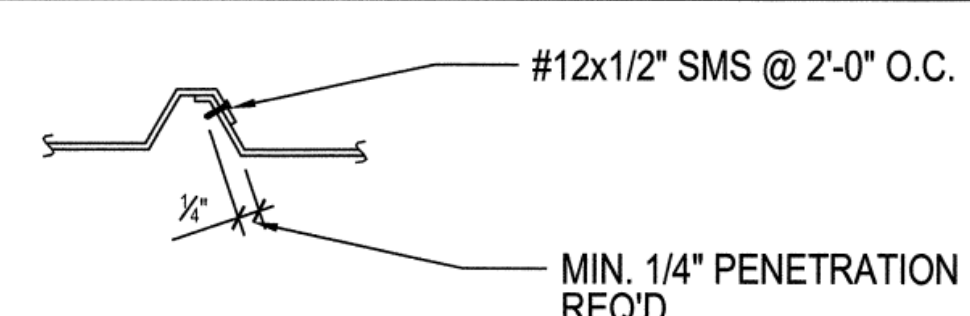
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APPL # 04-115995  
AC  FLS  SS   
DATE:

**FRAMING/FOUNDATION PLAN**

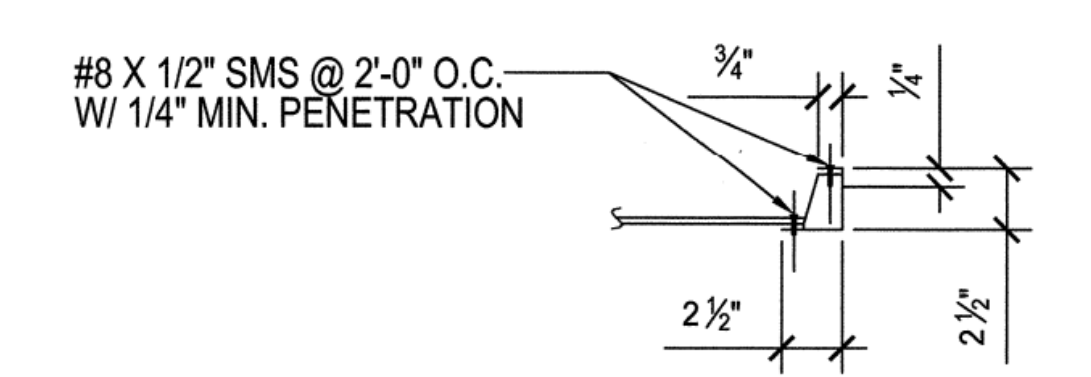
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DATE: 5/2/2017



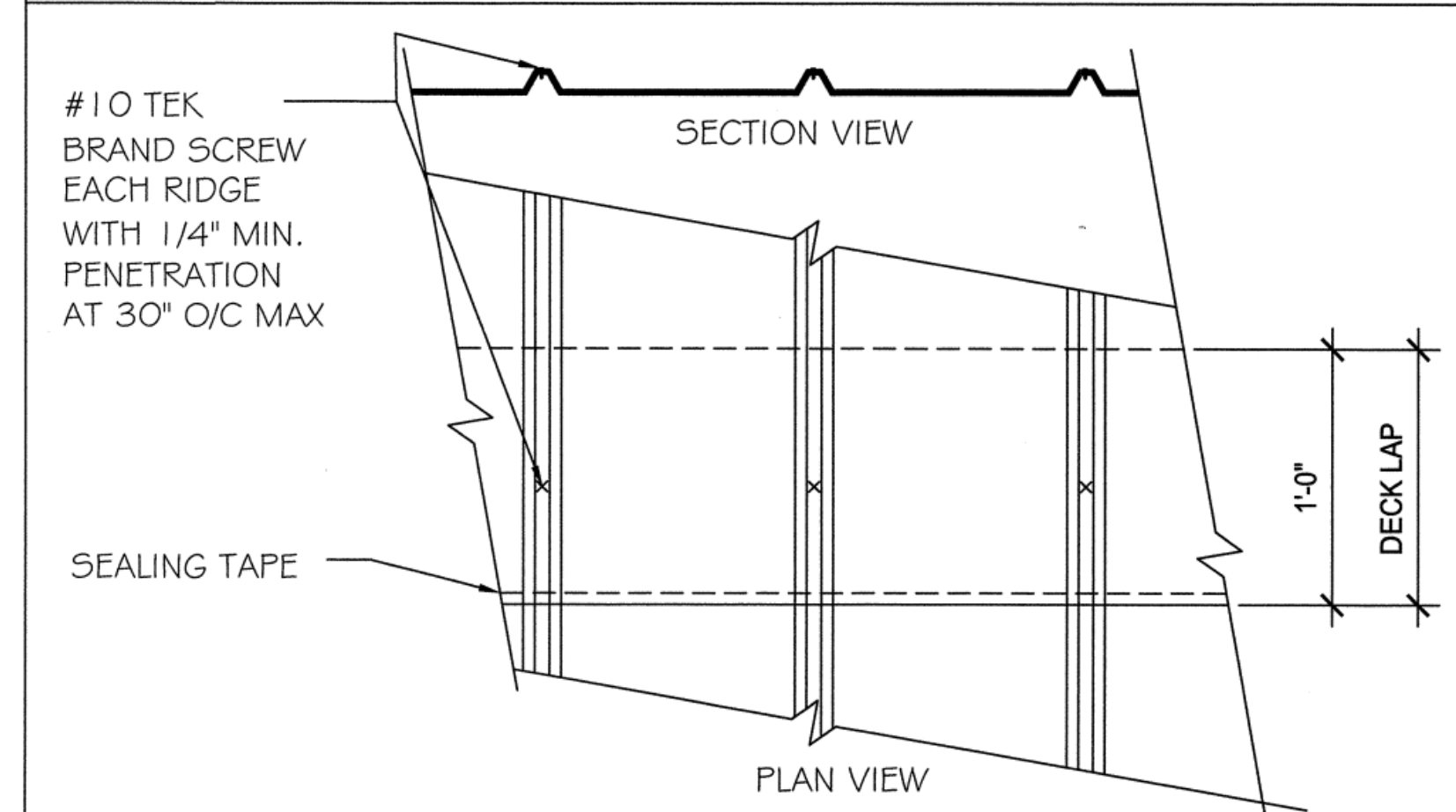
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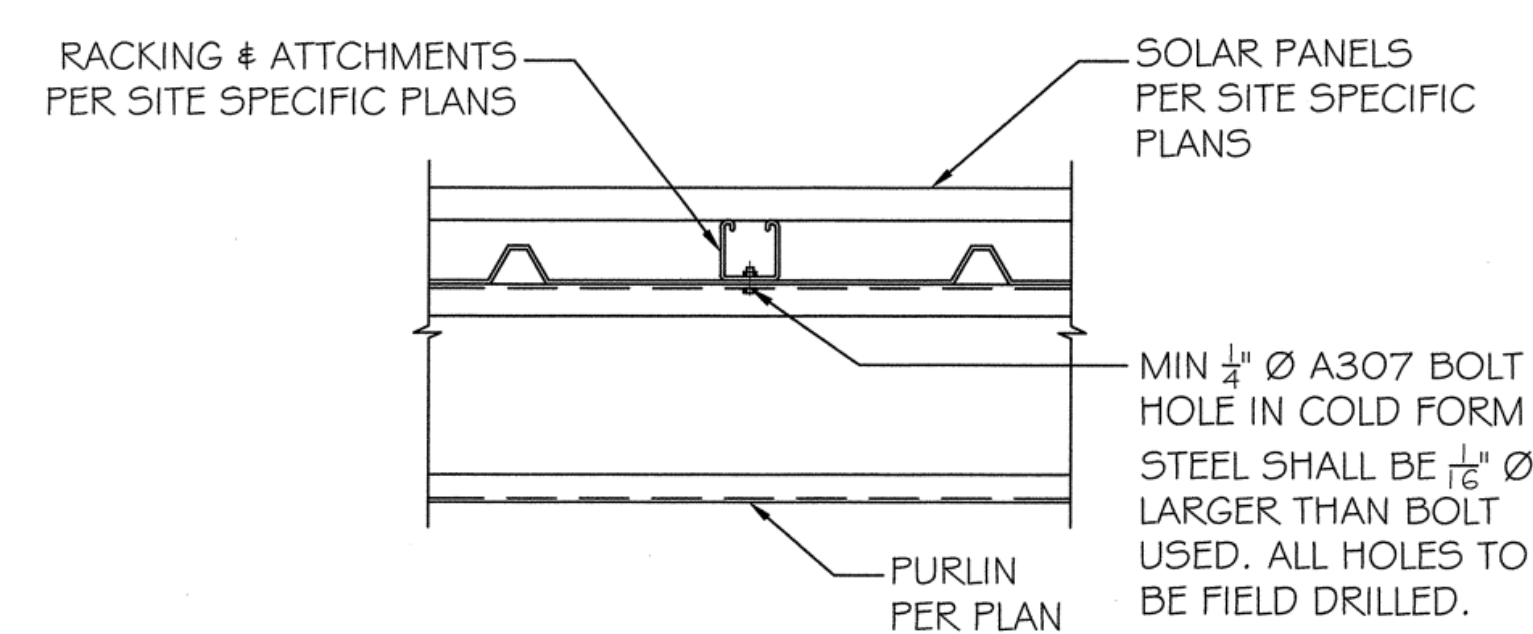
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DETAIL **C** TRIM DETAIL "C" (N/S)



DETAIL **D** DECK OVERLAP "D" (N/S)



DETAIL **E** PANEL ATTACHMENT DETAIL "E" (N/S)

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11-03-14

**NATIONAL CARPORT INDUSTRIES LUNCH SHELTER**

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4 STEL JOB # 14-1015

DATE 11-03-14

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ELEVATIONS

**S-5**

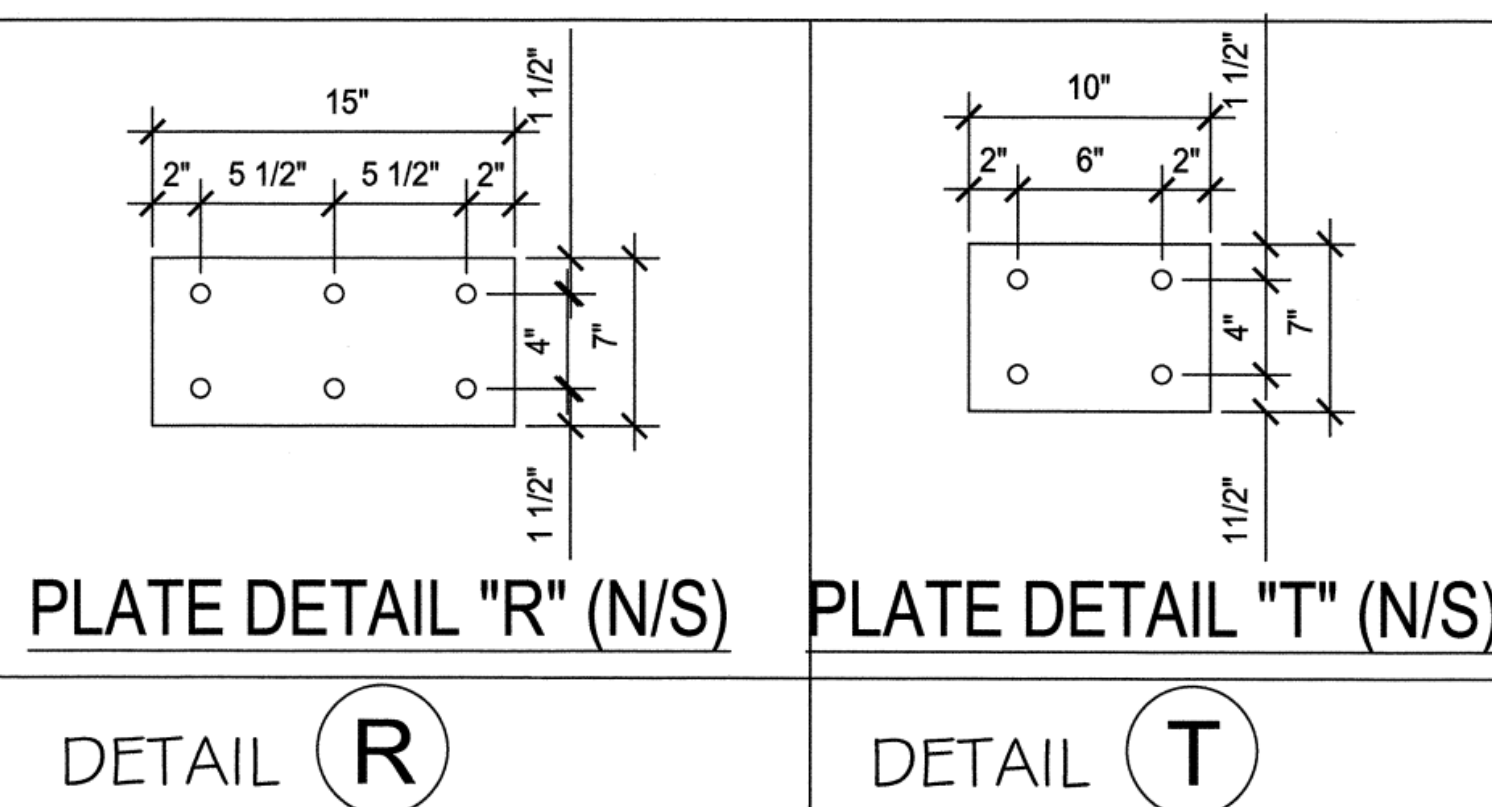
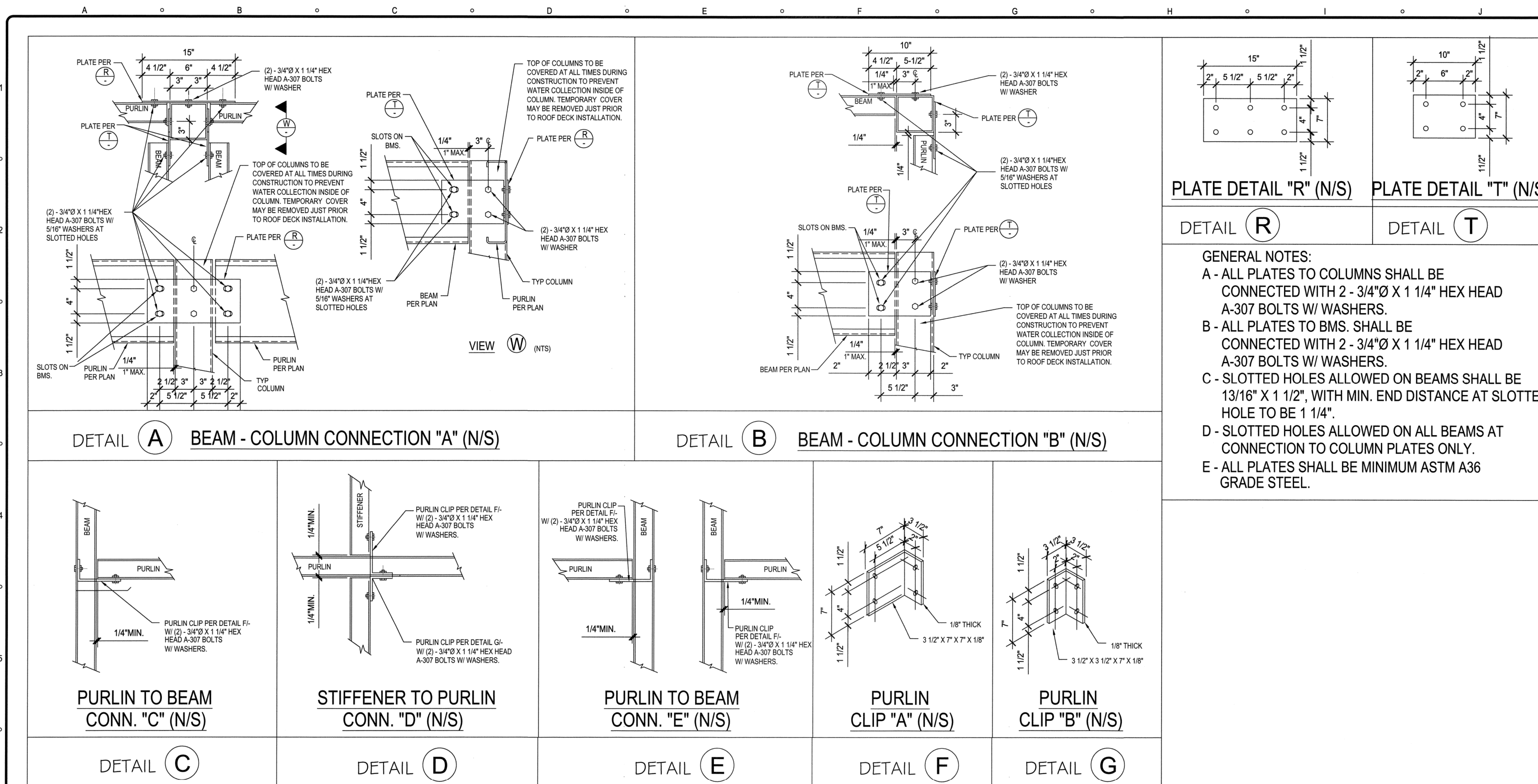
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ELEVATIONS

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**PC S-5**



**GENERAL NOTES:**  
**A** - ALL PLATES TO COLUMNS SHALL BE CONNECTED WITH 2 - 3/4" X 1 1/4" HEX HEAD A-307 BOLTS W/ WASHERS.  
**B** - ALL PLATES TO BMS. SHALL BE CONNECTED WITH 2 - 3/4" X 1 1/4" HEX HEAD A-307 BOLTS W/ WASHERS.  
**C** - SLOTTED HOLES ALLOWED ON BEAMS SHALL BE 13/16" X 1 1/2", WITH MIN. END DISTANCE AT SLOTTED HOLE TO BE 1 1/4".  
**D** - SLOTTED HOLES ALLOWED ON ALL BEAMS AT CONNECTION TO COLUMN PLATES ONLY.  
**E** - ALL PLATES SHALL BE MINIMUM ASTM A36 GRADE STEEL.

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**NATIONAL CARPORT INDUSTRIES LUNCH SHELTER**

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**CONNECTION DETAILS**  
**S-6**

FILE NUMBER: 03-1418  
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**CONNECTION DETAILS**

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**LUNCH SHELTER**

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4 STEL JOB # 14-1015  
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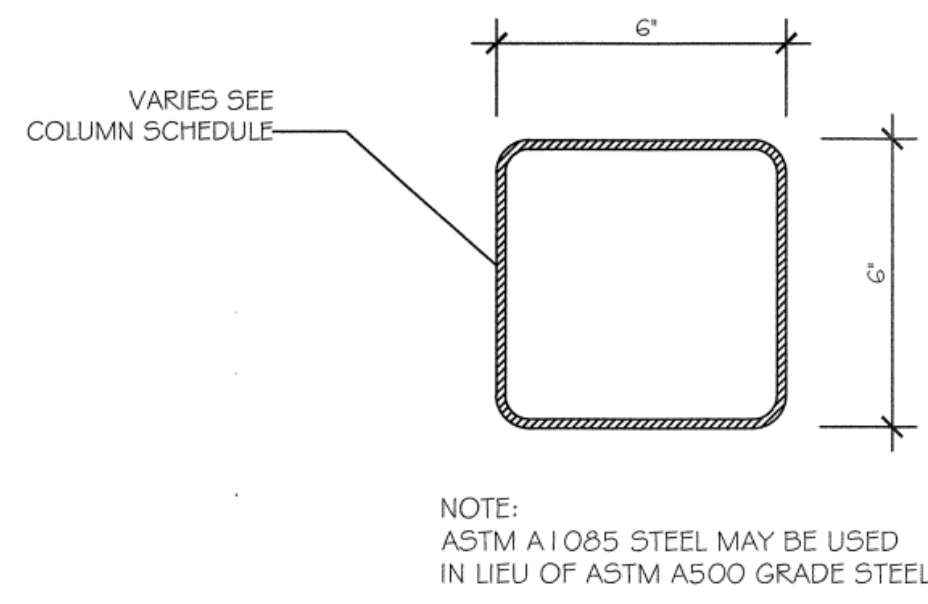
**FOUNDATION DETAILS**

**S-7**

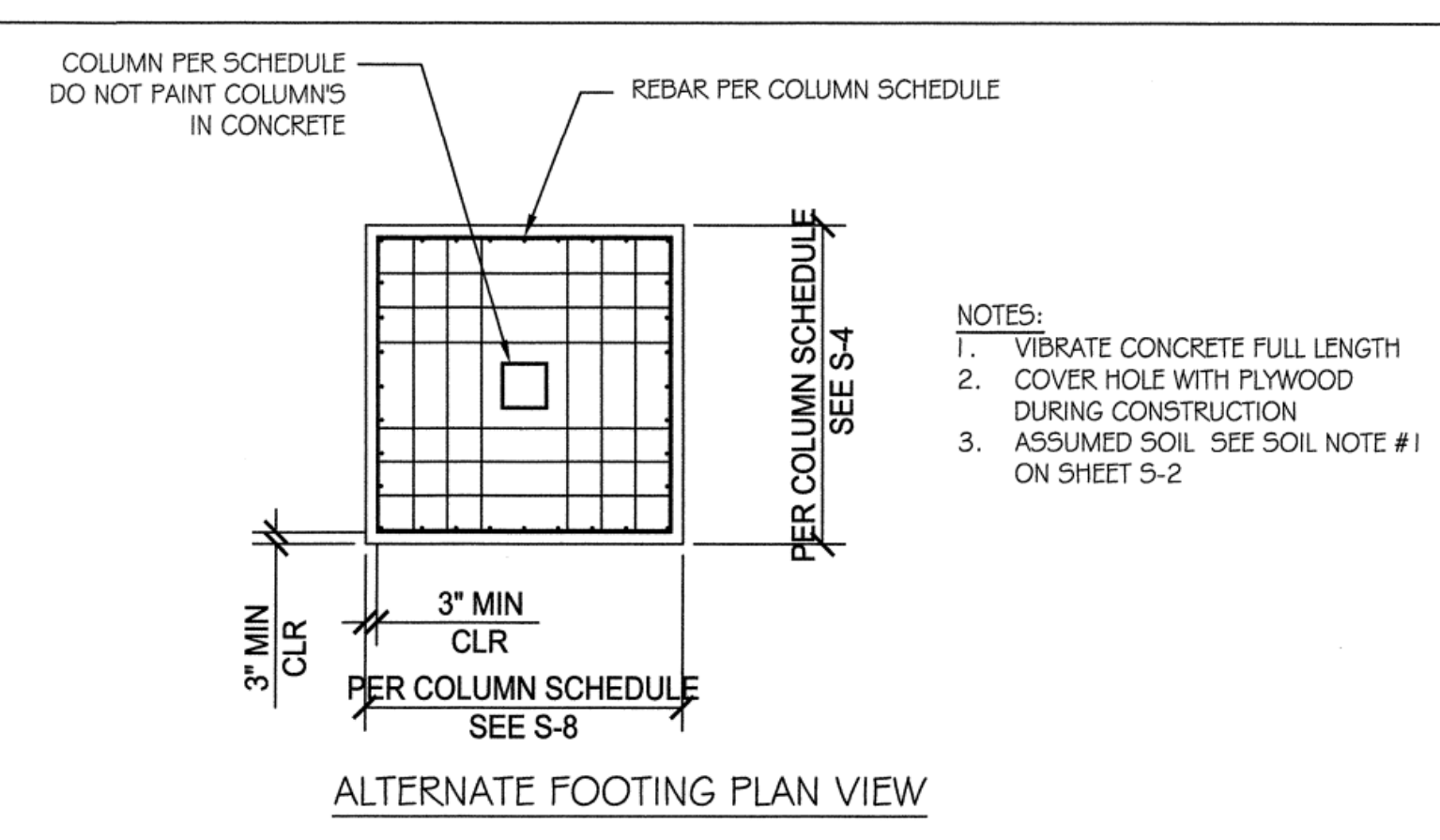
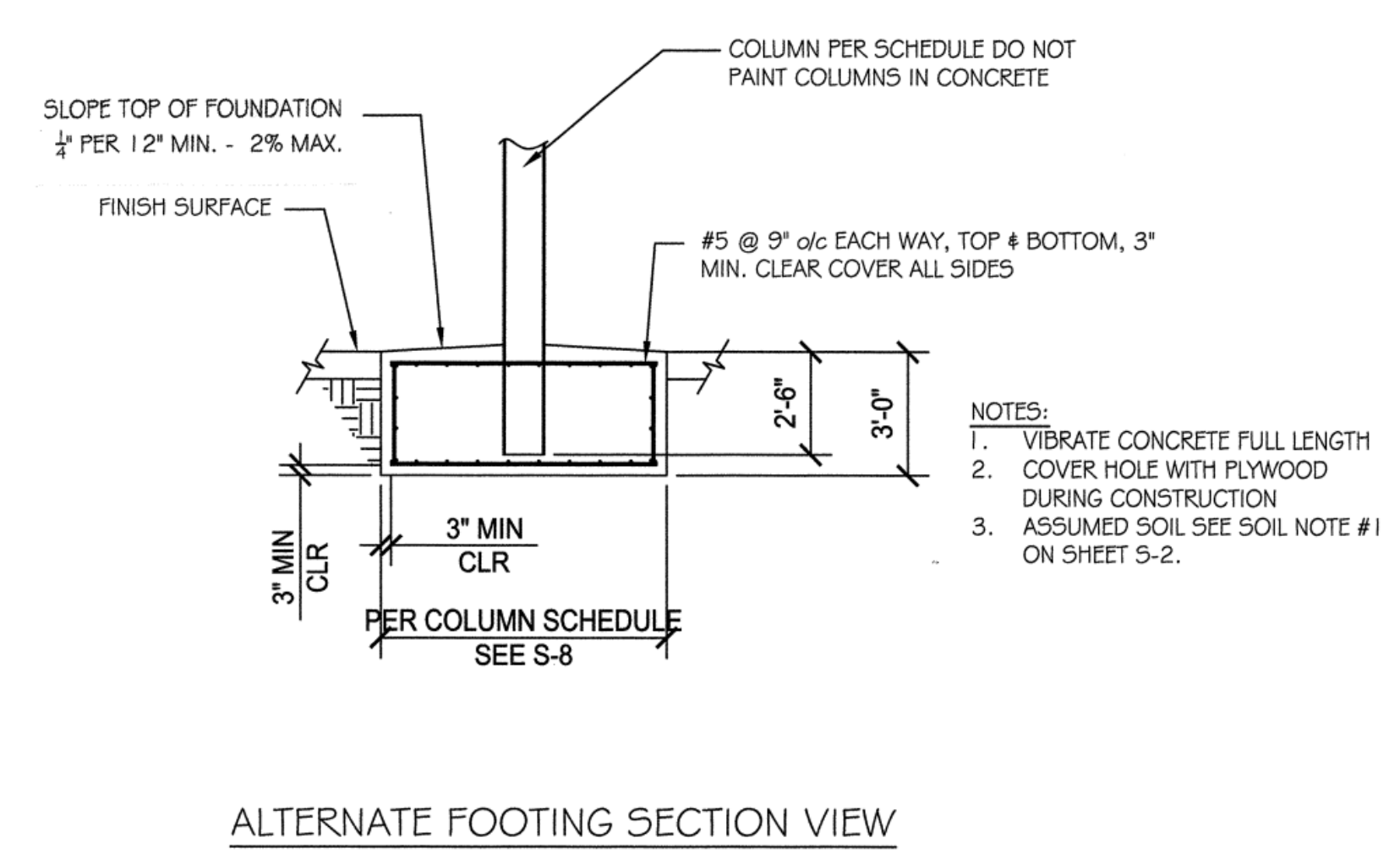
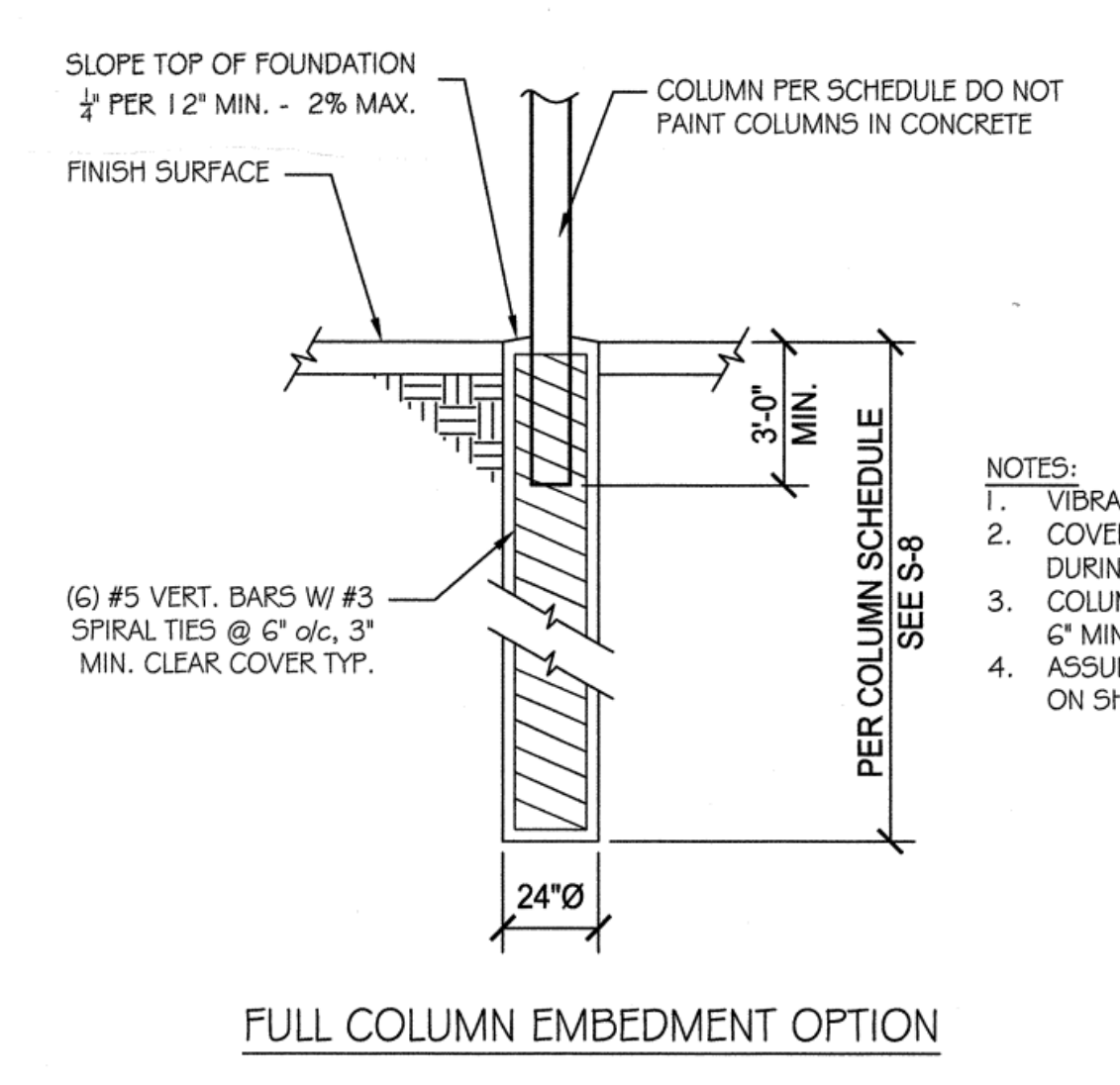
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DATE 05/02/2017

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OFFICE OF REGULATION SERVICES  
APPL # 04-115995  
AC  FLS  SS   
DATE:

STRUCTURAL PROPERTIES									
MEMBER	ASTM GRADE	Fy (ksi)	A (in <sup>2</sup> )	Sx (in <sup>3</sup> )	Sy (in <sup>3</sup> )	Ix (in <sup>4</sup> )	Iy (in <sup>4</sup> )	Rx (in)	Ry (in)
HSS 6"x6"x1/4"	A500 GR. B	46	5.24	9.54	9.54	28.6	28.6	2.34	2.34
HSS 6"x6"x5/16"	A500 GR. B	46	6.43	11.4	11.4	34.3	34.3	2.31	2.31
HSS 6"x6"x3/8"	A1085	50	8.08	13.9	13.9	41.6	41.6	2.27	2.27



**COLUMN** 2



**FOOTING DETAIL** **F1** NOT TO SCALE

PRE-CHECK (PC) DOCUMENT  
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A SEPARATE PROJECT APPLICATION FOR  
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**FOUNDATION DETAILS**

NO. DATE ISSUE PROJECT NO: 13013-00  
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**NATIONAL CARPORT INDUSTRIES**  
**LUNCH SHELTER**

AHJ APPROVAL  
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DATE NOV 04 2014

REVISIONS		
MARK	DATE	DESCRIPTION

4 STEEL JOB # 14-1015

DATE 11-03-14

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**COLUMN & FOOTING SCHEDULE**

**S-8**

FILE NUMBER: 04-113723  
IDENTIFICATION STAMP  
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DATE 05/02/2017

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OFFICE OF REGULATION SERVICES  
APPL # 04-115995  
AC FLS SS  
DATE:

PRE-CHECK (PC) DOCUMENT  
CODE: 2013 CBC  
A SEPARATE PROJECT APPLICATION FOR  
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COLUMN AND FOOTING SCHEDULE										
1.19° MAX SLOPE: 1'2"-0" MAX COLUMN HEIGHT										
R=1.25, S <sub>s</sub> = 1.5					R=2.5, S <sub>s</sub> = 3.0					
COLUMN	SOIL CLASS	FOOTING DEPTH	ALT. FOOTING SIZE	FOOTING REBAR	COLUMN	SOIL CLASS	FOOTING DEPTH	ALT. FOOTING SIZE	FOOTING REBAR	
COLUMN A	H55 6"x6"x1/4"	W	7'-3" MIN.	5'-6" SQ. MIN.	⊕ 5/7	COLUMN A	H55 6"x6"x3/8"	W	7'-3" MIN.	5'-9" SQ. MIN.
		X	6'-3" MIN.	5'-6" SQ. MIN.				⊕ 5/7		
		Y	5'-6" MIN.	5'-6" SQ. MIN.				⊕ 5/7		
COLUMN B	H55 6"x6"x1/4"	W	8'-3" MIN.	6'-6" SQ. MIN.	⊕ 5/7	COLUMN B	H55 6"x6"x3/8"	W	8'-6" MIN.	6'-6" SQ. MIN.
		X	7'-3" MIN.	6'-3" SQ. MIN.				⊕ 5/7		
		Y	6'-6" MIN.	6'-3" SQ. MIN.				⊕ 5/7		

COLUMN AND FOOTING SCHEDULE										
1.19° MAX SLOPE: 1'4"-0" MAX COLUMN HEIGHT										
R=1.25, S <sub>s</sub> = 1.5					R=2.5, S <sub>s</sub> = 3.0					
COLUMN	SOIL CLASS	FOOTING DEPTH	ALT. FOOTING SIZE	FOOTING REBAR	COLUMN	SOIL CLASS	FOOTING DEPTH	ALT. FOOTING SIZE	FOOTING REBAR	
COLUMN A	H55 6"x6"x1/4"	W	7'-6" MIN.	6'-0" SQ. MIN.	⊕ 5/7	COLUMN A	H55 6"x6"x3/8"	W	7'-9" MIN.	6'-0" SQ. MIN.
		X	6'-6" MIN.	5'-9" SQ. MIN.				⊕ 5/7		
		Y	5'-9" MIN.	5'-9" SQ. MIN.				⊕ 5/7		
COLUMN B	H55 6"x6"x5/16"	W	8'-9" MIN.	7'-0" SQ. MIN.	⊕ 5/7	COLUMN B	H55 6"x6"x3/8"	W	9'-0" MIN.	7'-0" SQ. MIN.
		X	7'-6" MIN.	6'-9" SQ. MIN.				⊕ 5/7		
		Y	6'-9" MIN.	6'-9" SQ. MIN.				⊕ 5/7		

MURRIETA VALLEY UNIFIED SCHOOL DISTRICT  
MURRIETA VALLEY HIGH SCHOOL  
AUTO LIFT

## PIER FOOTING OPTION

DSA-103 Statement of Structural Tests & Special Inspections - 2013 CBC

**1. GENERAL**

**2. CAST-IN-PLACE CONCRETE**

**3. CONCRETE**

**4. CAST-IN-PLACE CONCRETE**

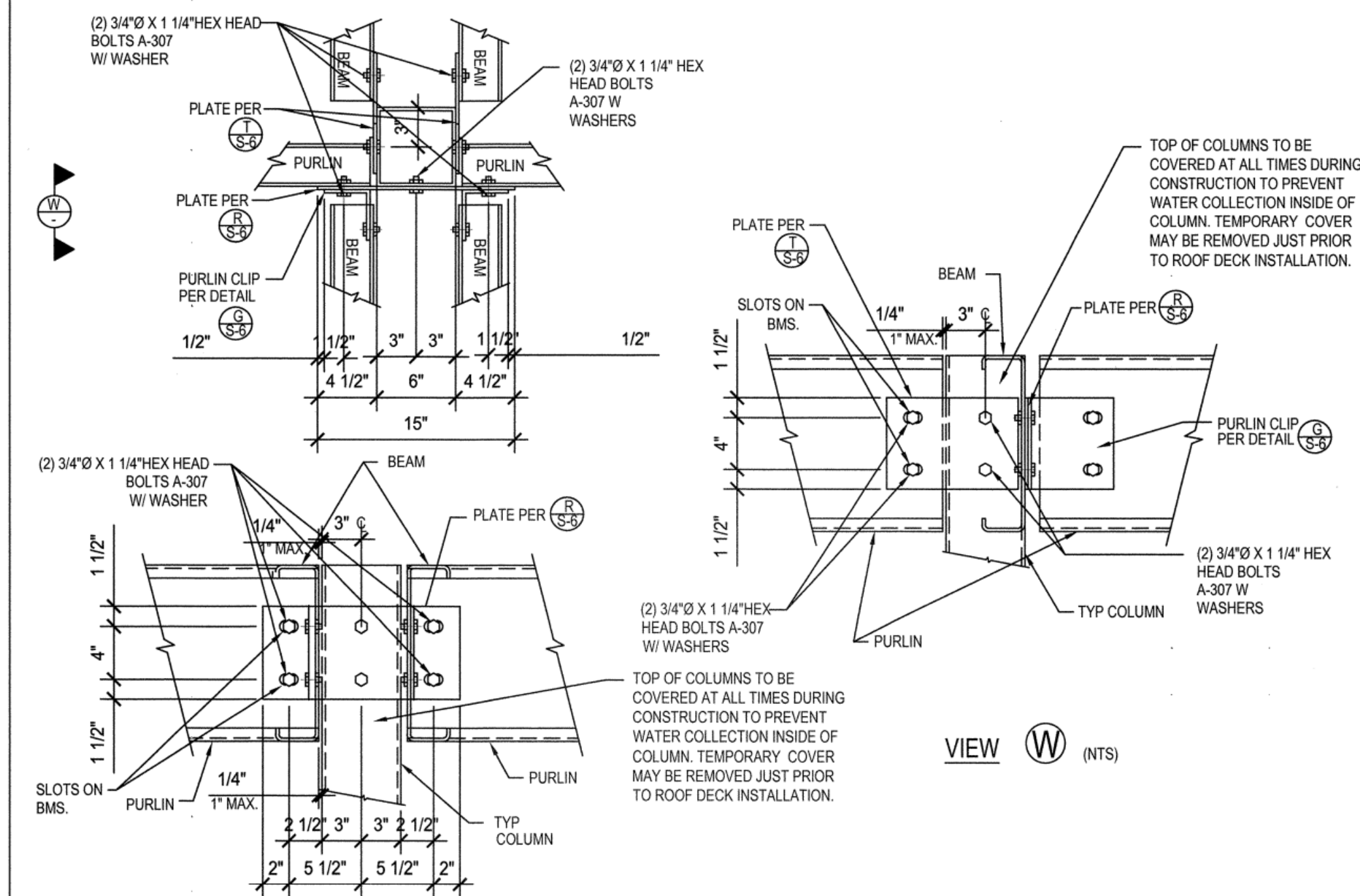
**5. MASONRY**

**6. STEEL**

**7. STRUCTURAL STEEL AND COLD-FORMED STEEL USED FOR STRUCTURAL PURPOSES**

**8. WOOD**

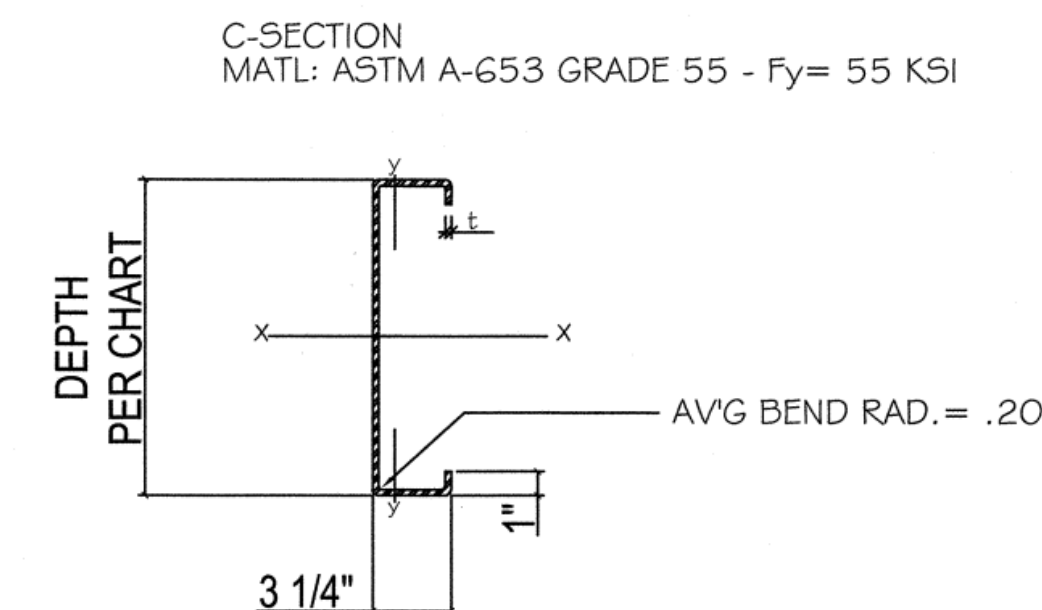
**9. OTHER**



DETAIL H BEAM - COLUMN CONNECTION "H" (NTS)

C-SECTIONAL PROPERTIES  
NATIONAL CARPORTS INDUSTRIES  
AISI 2007 COLD FORMED STEEL DESIGN MANUAL

GAGE	DEPTH (in)	Fy (ksi)	Wt. (plf)	A (in <sup>2</sup> )	Ixe (in <sup>4</sup> )	Sxe (in <sup>3</sup> )	rx (in)	Iye (in <sup>4</sup> )	Sye (in <sup>3</sup> )	ry (in)
14	13	55	4.90	1.440	34.43	5.207	4.89	1.781	0.712	1.11
12	13	55	7.23	2.127	50.26	7.732	4.86	2.476	0.984	1.08



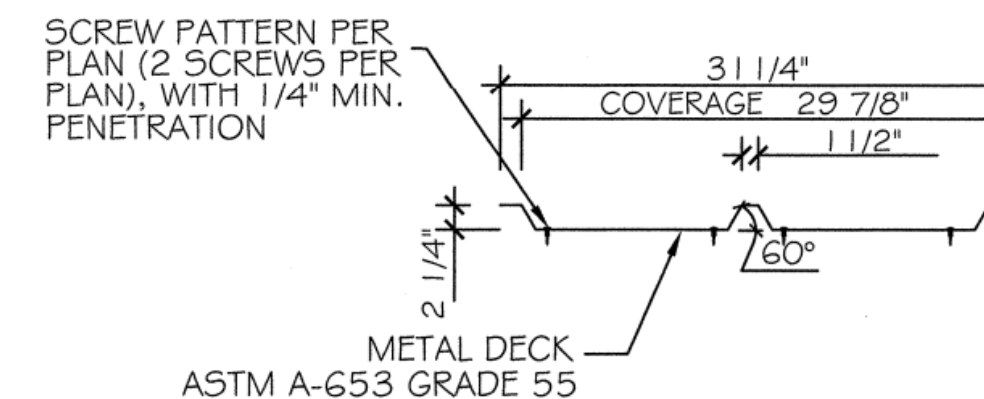
## BEAM DETAIL

NOT TO SCALE

3

ROOF DECK PROFILE SECTIONAL PROPERTIES  
NATIONAL CARPORTS INDUSTRIES  
FULLY BRACE STRENGTH - 2007 AISI SPECIFICATION SUPPLEMENT I (ASD)

GAGE	Fy (ksi)	Wt. (psf)	A (in <sup>2</sup> )	Ixe (in <sup>4</sup> )	Sxe (in <sup>3</sup> )	Iye (in <sup>4</sup> )	Sye (in <sup>3</sup> )
24	55	1.098	0.800	0.3530	0.1863	0.2490	0.2103



## METAL DECK DETAIL

NOT TO SCALE

8

PRE-CHECK (PC) DOCUMENT  
CODE: 2013 CBC  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

## SPREAD FOOTING OPTION

DSA-103 Statement of Structural Tests & Special Inspections - 2013 CBC

**1. GENERAL**

**2. CAST-IN-PLACE CONCRETE**

**3. CONCRETE**

**4. CAST-IN-PLACE CONCRETE**

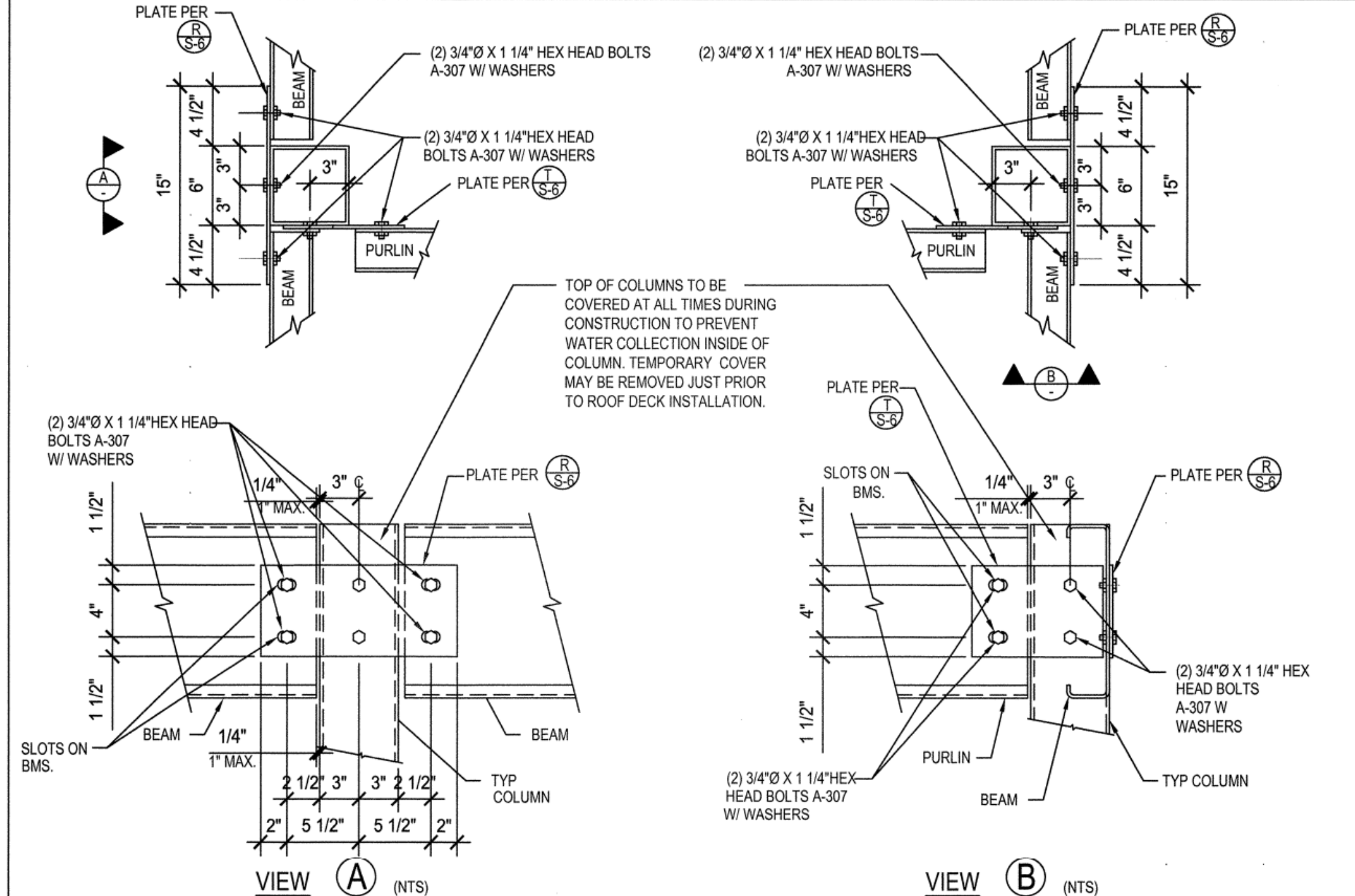
**5. MASONRY**

**6. STEEL**

**7. STRUCTURAL STEEL AND COLD-FORMED STEEL USED FOR STRUCTURAL PURPOSES**

**8. WOOD**

**9. OTHER**



DETAIL I BEAM - COLUMN CONNECTION "I" (NTS)

NOTE:  
THE EXAMPLE FORM DSA-103'S SHOWN ON THIS SHEET ARE FOR ILLUSTRATION PURPOSES ONLY TO ASSIST IN THE COMPLETION OF FUTURE PROJECT-SPECIFIC FORM DSA-103'S. A FORM DSA-103 IS TO BE COMPLETED FOR EACH APPLICATION THAT THIS PC IS BEING INCORPORATED INTO AND ALL EXAMPLE FORM DSA-103'S ARE TO BE CROSSED OUT ON THIS DRAWING

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SAN CLEMENTE, CA 92672  
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REGISTERED PROFESSIONAL ENGINEER  
CALIFORNIA  
S 5885  
EXP. 06-30-2016  
11-03-14

NATIONAL CARPORT INDUSTRIES  
LUNCH SHELTER

AHJ APPROVAL  
IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
A#04-113723  
AC FL S SS  
DATE NOV 04 2014

REVISIONS

MARK	DATE	DESCRIPTION

4 STEEL JOB # 14-1015  
DATE 11-03-14  
DRAWN BY MAP  
CHECKED DKR

TESTING & INSPECTION REQUIREMENTS

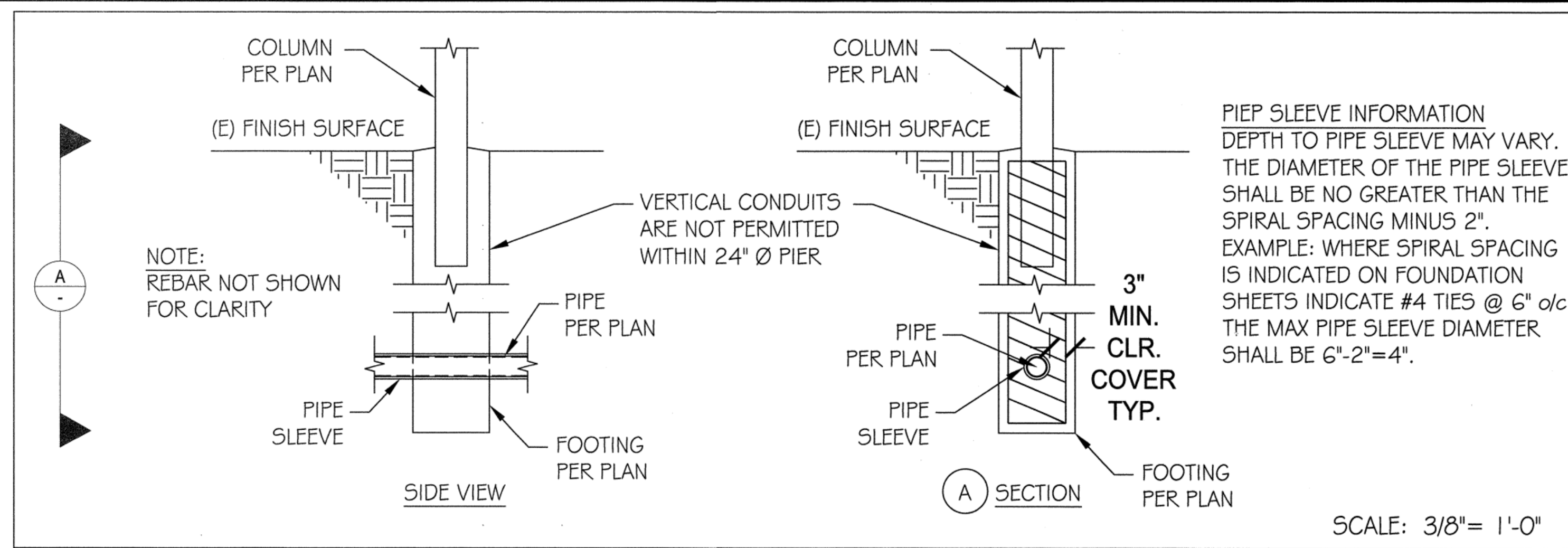
**S-9**

IDENTIFICATION STAMP  
DIVISION OF THE STATE ARCHITECT  
OFFICE OF REGULATION SERVICES  
APPL # 04-115995  
AC FL S SS  
DATE

## TESTING & INSPECTION REQUIREMENTS

NO. DATE ISSUE PROJECT NO. 13013-00  
DATE: 5/2/2017

## DRAWING PC S-9



PIPE THROUGH PIER FOOTING

2

PIEP SLEEVE INFORMATION  
DEPTH TO PIPE SLEEVE MAY VARY.  
THE DIAMETER OF THE PIPE SLEEVE  
SHALL BE NO GREATER THAN THE  
SPIRAL SPACING MINUS 2".  
EXAMPLE: WHERE SPIRAL SPACING  
IS INDICATED ON FOUNDATION  
SHEETS INDICATE #4 TIES @ 6" o/c  
THE MAX PIPE SLEEVE DIAMETER  
SHALL BE 6"-2"=4".

SCALE: 3/8"= 1'-0"

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REGISTERED PROFESSIONAL ENGINEER  
DAVID K. RESENAK  
S 5885  
EXP. 06-30-2016  
11-03-14

**NATIONAL CARPORT  
INDUSTRIES  
LUNCH SHELTER**

AHJ APPROVAL  
IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
A#04-113723  
AC [initials] FLS [initials] SS [initials]  
DATE NOV 04 2014

REVISIONS

MARK	DATE	DESCRIPTION

4 STEL JOB # 14-1015  
DATE 11-03-14  
DRAWN BY MAP  
CHECKED DKR

**CONNECTION  
DETAILS**

**S-10**

PRE-CHECK (PC) DOCUMENT  
CODE: 2013 CBC  
A SEPARATE PROJECT APPLICATION FOR  
CONSTRUCTION IS REQUIRED.

FILE NUMBER: 04-113723  
IDENTIFICATION STAMP  
DIVISION OF THE STATE ARCHITECT  
APP. NO. 04 - 115995 INCR. :  
AC [initials] FLS [initials] SS [initials]  
DATE 05/02/2017

IDENTIFICATION STAMP  
DIVISION OF THE STATE ARCHITECT  
OFFICE OF REGULATION SERVICES  
APPL # 04-115995  
AC [initials] FLS [initials] SS [initials]  
DATE:

**CONNECTION DETAILS**

NO. DATE ISSUE PROJECT NO: 13013-00  
DATE: 5/2/2017

DRAWING  
**PC S-10**