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ABBREVIATIONS

AB	ANCHOR BOLT	DS	DEFORMED SHANK	GLB	GLUE-LAM BEAM	OSB	ORIENTED STRAND BOARD
ARCH	ARCHITECTURAL	DIA	DIAMETER	HDR	HEADER	PL	PLATE
L	ANGLE	DWL	DOWEL	HORIZ(H)	HORIZONTAL	PLYWD	PLYWOOD
BLDG	BUILDING	EXIST(E)	EXISTING	HSB	HIGH STRENGTH BOLT	PSL	PARALLAM®
BLKG	BLOCKING	EXP BT	EXPANSION BOLT	INT	INTERIOR	PT	PRESSURE TREATED
BM	BEAM	EF	EACH FACE	JST	JOIST	REINF	REINFORCEMENT
BOT(B)	BOTTOM	EL	ELEVATION (DATUM)	JT	JOINT	REQ'D	REQUIRED
CB	CARRIAGE BOLT	ELEV	ELEVATION (VIEW)	KS	KING STUD	SHG	SHEATHING
CTR	CENTER	EN	EDGE NAILING	LVL	MICROLAM™	STD	STANDARD
CJ	CONSTRUCTION JOINT	ES	EACH SIDE	MAX	MAXIMUM	STIFF	STIFFENER
CCJ	CONTROL JOINT	EA	EACH	MB	MACHINE BOLTS	ST	STEEL
CMU	CONCRETE MASONRY UNIT	EW	EACH WAY	MIN	MINIMUM	SYM	SYMMETRICAL
CTSK	COUNTERSINK	EXT	EXTERIOR	MAS	MASONRY	T&B	TOP & BOTTOM
CLR	CLEAR	FIN	FINISH	MFR	MANUFACTURER	T.O.P.	TOP OF PLYWOOD
CONT	CONTINUOUS	FLR	FLOOR	MO	MASONRY OPENING	T.O.S.	TOP OF STEEL
COL	COLUMN	FOUND	FOUNDATION	MECH	MECHANICAL	TYP	TYPICAL
CONC	CONCRETE	FOS	FACE OF STUD	NS	NEAR SIDE	VERT(V)	VERTICAL
CONN	CONNECTION	FS	FAR SIDE	NTS	NOT TO SCALE	UNO	UNLESS NOTED OTHERWISE
CONSTR	CONSTRUCTION	FTG	FOOTING	OC	ON CENTER	WWF	WELDED WIRE FABRIC
CS	CRIPPLE STUD	GALV	GALVANIZED	OPNG	OPENING	w/	WITH

THE FOLLOWING NOTES SHALL APPLY TO ALL SHEETS

1. IT SHALL BE THE CONTRACTORS DIRECT RESPONSIBILITY TO COMPLY WITH TYPICAL DETAILS AND GENERAL NOTES AS DELINEATED OR DEFINED ON THE TYPICAL DETAIL DRAWINGS OF THESE CONTRACT DOCUMENTS REGARDLESS OF SPECIFIC FLAGGING OR REFERENCE TO APPLICABLE NOTE OR DETAIL.
2. DO NOT SCALE DRAWINGS. DRAWINGS ARE DIAGRAMMATIC AND MAY NOT SCALE ACCURATELY. ANY DIMENSIONAL OMISSIONS OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD IMMEDIATELY.
3. CONTRACTOR TO VERIFY DIMENSIONS PRIOR TO CONSTRUCTION.
4. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AND NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES.

BASIS OF DESIGN

CODE REFERENCE - 2006 IBC / ASCE 7-05
OCCUPANCY CATEGORY IV
VA HANDBOOK H-18-8, SEISMIC DESIGN REQUIREMENTS, FEBRUARY 2011

LIVE LOADS	
Ground Snow Load	30 psf
Ce	1.00
Ct	1.00
Is	1.20
Flat Roof Snow Load, Pf	25 psf

WIND LOADS	
Basic Wind Speed, v3s	100 mph
Exposure	C
Iw	1.15
Enclosure Classification	Enclosed

SOILS*	
Maximum Allowable Soil Bearing	3,500 psf
Coefficient of Friction	0.4
Active Pressure	40 pcf
Passive Pressure	300 pcf
Frost Depth	24"

*Soils values are based on worst case parameters from adjacent buildings on the VA campus.

SEISMIC LOADS	
Site Class	D
Ie	1.50
Ss	1.500
S1	0.600
Sds	1.00
Sd1	0.60
Seismic Design Category	D
Seismicity (H-18-8)	Very High
Analysis Procedure	Equivalent Lateral Force Procedure
Basic Seismic Force ResistingSystem(s)	Building 1- Ordinary Reinforced Concrete Shearwalls (R=4) Bridge and Addition- Ordinary Steel Moment Frames (R=3.5) Bridge and Addition- Ordinary Steel Concentrically Braced Frames (R=3.25)
Base Shear, V=CsW	0.38W (R=4) 0.43W (R=3.5) 0.46W (R=3.25)

PROJECT TITLE

STRUCTURAL DRAWINGS FOR

VA SIERRA NEVADA HEALTH CARE SYSTEM CANTEEN RELOCATION DESIGN

975 KIRMAN AVE.
RENO, NEVADA 89502

INDEX TO DRAWINGS

1-SS0.1	STRUCTURAL COVER SHEET / GENERAL NOTES
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1-SS1.2	TYPICAL DETAILS
1-SS2.1	FOUNDATION/FIRST FLOOR AND SECOND FLOOR/LOW ROOF FRAMING PLANS
1-SS2.2	THIRD FLOOR/HIGH ROOF FRAMING PLAN
1-SS3.1	WALL ELEVATION
1-SS4.1	SECTIONS AND DETAILS
1-SS4.2	SECTIONS AND DETAILS

GENERAL NOTES

I. GENERAL

A. THE FOLLOWING GENERAL NOTES APPLY TO ALL STRUCTURAL DRAWINGS UNLESS NOTED OTHERWISE.

B. ALL PHASES OF WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE 2006 INTERNATIONAL BUILDING CODE AND THE LATEST EDITION OF ASTM OR OTHER INDUSTRY STANDARDS REFERENCED.

C. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE UNLESS OTHERWISE INDICATED; THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKMEN, AND OTHER PERSONS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, PREPARING AND FOLLOWING A WRITTEN SAFETY PROGRAM FOR THE CONSTRUCTION PROJECT, BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, SHORING FOR THE BUILDING, FORMS AND SCAFFOLDING, AND ALL RETAINING WALLS. THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REGULATIONS AND RETAIN HIS OWN ENGINEER WHERE REQUIRED.

D. IN THE EVENT THAT CERTAIN FEATURES OF CONSTRUCTION ARE NOT FULLY SHOWN ON THE DRAWINGS OR CALLED FOR IN THE NOTES OR SPECIFICATIONS, THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR CONDITIONS THAT ARE SHOWN OR CALLED FOR AND SHALL BE REVIEWED BY THE ARCHITECT.

E. IN THE EVENT THAT CERTAIN EXISTING CONDITIONS ARE FOUND TO BE DIFFERENT FROM THOSE SHOWN ON THE PLANS AND DETAILS, THE ARCHITECT SHALL BE IMMEDIATELY NOTIFIED SO THAT THE PROPER REVISIONS CAN BE MADE IF NECESSARY.

F. NO CHANGES OR DEVIATIONS FROM THE PLANS AND SPECIFICATIONS WILL BE ALLOWED WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT.

G. WHERE SHOP DRAWINGS ARE REQUIRED, THEY SHALL BE COMPLETE AND COORDINATED BY THE CONTRACTOR. REPRODUCTIONS OF CONTRACT DRAWINGS WILL NOT BE ACCEPTABLE.

II. FOUNDATIONS

A. FOUNDATION DESIGN ASSUMES THE PRESENCE OF ADEQUATE NATIVE SOILS. THE CONTRACTOR SHALL VERIFY THAT EXISTING SOILS ARE SUITABLE FOR THE PROPOSED IMPROVEMENTS AND SHALL NOTIFY THE ARCHITECT IMMEDIATELY IF ANY DEFICIENCIES OR DISCREPANCIES ARE NOTED SO THAT APPROPRIATE MEASURES CAN BE TAKEN.

B. NATIVE MATERIALS, FILL AND BACKFILL SHALL BE REASONABLY WELL GRADED, FREE OF ORGANICS, WITH 100% PASSING THE 4" SIEVE, 70% TO 100% PASSING THE 3/4" SIEVE, 15% TO 65% PASSING THE #40 SIEVE AND 5% TO 20% PASSING THE #200 SIEVE. THE LIQUID LIMIT SHALL NOT EXCEED 35 AND THE PLASTIC INDEX SHALL NOT EXCEED 12.

C. STRIP SITE AS REQUIRED FOR IMPROVEMENTS. CLEAR ALL EXISTING STRUCTURES, DEBRIS, PAVING AND ORGANICS. THE CONTRACTOR SHALL TAKE CARE TO LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION AND AVOID OR RE-LOCATE UTILITIES AS REQUIRED.

D. EXCAVATE AS NECESSARY TO PROPERLY CONSTRUCT IMPROVEMENTS.

E. SCARIFY, MOISTURE CONDITION, AND RE-COMPACT FOOTING SUB-GRADES TO 95% RELATIVE COMPACTION. PLACE FILL AND BACKFILL IN UNIFORM HORIZONTAL LIFTS OF 6" COMPACTED THICKNESS. MOISTURE CONDITION AND COMPACT TO 95% RELATIVE COMPACTION BELOW IMPROVEMENTS AND TO 90% RELATIVE COMPACTION OUTSIDE OF IMPROVEMENTS.

F. FOOTINGS SHALL BEAR NOT LESS THAN 24" BELOW FINISHED GRADE.

G. FOOTINGS MAY BE POURED IN NEAT EXCAVATION WHERE POSSIBLE, PROVIDED AN EXTRA 1" WIDTH OF FOOTING IS PROVIDED ON EACH SIDE.

H. ALL FOOTING EXCAVATIONS SHALL BE HAND CLEANED PRIOR TO PLACING CONCRETE.

I. CONCRETE SLABS, STEPS AND FLATWORK SHALL BE PLACED OVER 6" COMPACT, TYPE II AGGREGATE BASE. COMPACT AGGREGATE BASE TO 95% RELATIVE COMPACTION.

J. TRENCHING AND BACKFILL FOR UTILITIES SHALL COMPLY WITH THE REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION AND WITH ALL BEST INDUSTRY PRACTICES.

K. THE CONTRACTOR SHALL VERIFY THAT EXISTING SOILS ARE PROPER TO SUPPORT THE ASSUMED BEARING PRESSURES PRIOR TO POURING CONCRETE.

III. CONCRETE

A. ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF THE ACI MANUAL OF CONCRETE PRACTICE.

B. CONCRETE AT FOUNDATIONS IN CONTACT WITH SOILS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS, SHALL HAVE A MAXIMUM WATER TO CEMENT RATIO OF 0.50, AND SHALL HAVE AN ENTRAPPED AIR CONTENT OF 1% TO 3%.

C. CONCRETE AT INTERIOR SLABS ON GRADE OR WALLS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS, SHALL HAVE A MAXIMUM WATER TO CEMENT RATIO OF 0.50, SHALL HAVE AN ENTRAPPED AIR CONTENT OF 1% TO 3%, SHALL CONTAIN 1.5 LB/CY OF FIBERMESH STEALTH POLYPROPYLENE FIBERS OR APPROVED EQUAL, AND SHALL HAVE A MAXIMUM UNIT WEIGHT OF 130 PCF.

D. EXTERIOR CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS, SHALL HAVE A MAXIMUM WATER TO CEMENT RATIO OF 0.45, SHALL HAVE AN ENTRAINED AIR CONTENT OF 5% TO 7%, AND SHALL CONTAIN 1.5 LB/CY OF FIBERMESH STEALTH POLYPROPYLENE FIBERS OR APPROVED EQUAL.

E. ALL CONCRETE MIXES SHALL UTILIZE TYPE II LOW ALKALI CEMENT CONFORMING TO ASTM C150. HARDROCK AGGREGATE SHALL CONFORM TO ASTM C33. COURSE AGGREGATE GRADATION SHALL MEET THE REQUIREMENTS OF SIZE NO. 67 UNLESS NOTED OTHERWISE.

F. CONCRETE SLUMP SHALL NOT EXCEED 3" WHEN TESTED IN ACCORDANCE WITH ASTM C143 FOR FOOTINGS, SLABS, BEAMS AND GIRDERS OR 4" FOR CAST-IN-PLACE WALLS AND COLUMNS. SLUMP INDICATED IS WITH WATER ONLY. ADDITIONAL SLUMP IS ACCEPTABLE IF ADDED BY MEANS OF APPROVED ADDITIVES THAT DO NOT INCREASE SHRINKAGE OR ADVERSELY AFFECT THE CONCRETE.

G. NON-SHRINK GROUT OR DRY PACK SHALL BE A PREMIXED, NONMETALLIC FORMULA WITH A MINIMUM COMPRESSIVE STRENGTH OF 7000 PSI AT 28 DAYS AND HAVING THE FOLLOWING CHARACTERISTICS: NO SHRINKAGE AFTER PLACEMENT OR EXPANSION AFTER SET (ASTM C1090), ONE DAY COMPRESSIVE STRENGTH OF AT LEAST 3000 PSI (ASTM C109) AND INITIAL SET TIME OF NOT LESS THAN 45 MINUTES (ASTM C191). PROVIDE "HI-FLOW GROUT" OR "DRY PACK GROUT" BY EUCLID, OR AN APPROVED EQUAL.

H. REINFORCING SHALL BE DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60. ALL REINFORCING TO BE WELDED OR FIELD BENT SHALL CONFORM TO ASTM A706. SUPPORTS AND ACCESSORIES SHALL BE FURNISHED AS SHOWN OR REQUIRED. CHAIRS PLACED AGAINST EXPOSED SURFACES SHALL BE GALVANIZED OR PROVIDED WITH PLASTIC FEET.

I. MINIMUM COVERAGE FOR REINFORCING SHALL BE THE CLEAR DISTANCE TO THE FACE OF BARS AS FOLLOWS: 3" FOR CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH; 2" FOR #6 AND LARGER BARS FROM FORMED SURFACES EXPOSED TO EARTH OR WEATHER (1 1/2" FOR #5 AND SMALLER).

J. ALL REINFORCING STEEL SHALL BE ACCURATELY POSITIONED AND SECURED IN PLACE WITH CHAIRS, TIES, BOLSTERS OR DOBIES PRIOR TO PLACEMENT OF CONCRETE AS RECOMMENDED IN THE CRSI MANUAL OF STANDARD PRACTICE.

K. SPLICES IN REINFORCEMENT SHALL NOT BE MADE AT OR NEAR POINTS OF MAXIMUM STRESS. SPLICES SHALL BE LAPPED NOT LESS THAN 48 DIAMETERS. SPLICES SHALL BE LAPPED NOT LESS THAN 72 DIAMETERS IN CONCRETE ON METAL DECK. IN NO CASE SHALL A SPLICE BE LESS THAN 18".

L. CONCRETE FORMWORK SHALL CONFORM TO ACI 347. CLEAN AND ROUGHEN CONSTRUCTION JOINTS AND LIGHTLY MOISTEN FORMS AND SUBGRADE PRIOR TO PLACEMENT OF CONCRETE. INSTALL W.R. MEADOWS, INC. "SEALTIGHT DUOGARD" CHEMICAL RELEASE AGENT OR APPROVED EQUAL PRIOR TO PLACEMENT OF CONCRETE. PLACE CONCRETE USING METHODS WHICH AVOID SEGREGATION. MECHANICALLY VIBRATE ALL CONCRETE, INCLUDING FLOOR SLABS, TO CONSOLIDATE IT IN FORMS.

M. FINISH CONCRETE AS FOLLOWS UNLESS NOTED OTHERWISE: INTERIOR FLATWORK SHALL RECEIVE A STEEL TROWELED FINISH, EXTERIOR FLATWORK SHALL RECEIVE A MEDIUM BROOM FINISH PERPENDICULAR TO TRAFFIC, SACK AND PATCH FORMED CONCRETE EXPOSED TO VIEW FOR A SMOOTH FINISH, PATCH LARGE HOLES OR DEFECTS AT FORMED CONCRETE NOT EXPOSED TO VIEW. FRESHLY PLACED CONCRETE SHALL BE CURED AND PROTECTED FROM THE WEATHER IN ACCORDANCE WITH ACI 305 IN HOT WEATHER AND ACI 306 IN COLD WEATHER.

N. ALL CONCRETE EDGES, CORNERS AND INTERSECTIONS SHALL BE TOOLED OR CHAMFERED NO LESS THAN 3/4" WHETHER SHOWN ON THE DRAWINGS OR NOT.

O. CONSTRUCTION JOINTS WILL NOT BE PERMITTED, EXCEPT AS SHOWN ON THE DRAWINGS, WITHOUT WRITTEN CONSENT OF THE ARCHITECT.

P. SEE ARCHITECTURAL DRAWINGS FOR SPECIAL JOINT LAYOUT AND REQUIREMENTS AT EXPOSED CONCRETE FINISH LOCATIONS. AT SLABS ON GRADE, CONTRACTOR SHALL SUBMIT JOINT LAYOUT SHOP DRAWINGS TO THE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO POURING SLABS.

Q. CONCRETE MIX DESIGNS IN ACCORDANCE WITH ASTM C94 SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO PLACEMENT OF ANY CONCRETE. SHOP DRAWINGS OF REINFORCING STEEL SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO ANY FABRICATION.

IV. STRUCTURAL STEEL

A. ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE AISC MANUAL OF STEEL CONSTRUCTION.

B. ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A36, UNLESS NOTED OTHERWISE. W SHAPES SHALL CONFORM TO ASTM A992. PIPE SHALL CONFORM TO ASTM A53, GRADE B. HOLLOW STRUCTURAL SECTIONS (HSS) SHALL CONFORM TO ASTM A500, GRADE B.

C. ANCHOR BOLTS (AB) SHALL CONFORM TO ASTM F1554 GRADE 36, UNLESS NOTED OTHERWISE. MACHINE BOLTS (MB) SHALL CONFORM TO ASTM A307. HIGH STRENGTH BOLTS (HSB) SHALL BE ASTM A325 OR A490 AS NOTED AND SHALL CONFORM TO THE REQUIREMENTS OF THE "AISC SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS." CONTACT FACES OF STEEL AT CONNECTIONS WHERE HIGH STRENGTH BOLTS ARE USED SHALL NOT BE PAINTED. UNLESS NOTED OTHERWISE, HIGH STRENGTH BOLTS SHALL BE TENSION CONTROL TO ENSURE PROPER INSTALLATION.

D. HEADED STUDS SHALL BE NELSON STUD ANCHORS (NSA) BY TRW OR APPROVED EQUAL, AND SHALL BE INSTALLED PER MANUFACTURERS REQUIREMENTS.

E. ALL WELDING SHALL CONFORM TO THE AMERICAN WELDING SOCIETY'S SPECIFICATIONS FOR THE MATERIAL BEING WELDED. ALL WELDING SHALL BE PERFORMED ONLY BY AWS CERTIFIED WELDERS.

F. ALL STRUCTURAL STEEL WORK SHALL BE SHOP PAINTED AND TOUCHED UP IN THE FIELD AFTER ERECTION EXCEPT WHERE STEEL IS TO BE EMBEDDED IN CONCRETE, FIREPROOFED, OR WHERE REQUIRED FOR SPECIAL CONNECTIONS. PROVIDE 3" MINIMUM CONCRETE COVER FOR ALL STEEL EXPOSED TO EARTH.

G. SHOP DRAWINGS OF ALL STRUCTURAL STEEL SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO ANY FABRICATION. CALCULATIONS FOR ALL METAL FABRICATIONS DESIGNED AND DETAILED BY THE CONTRACTOR SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO ANY FABRICATION.

V. COLD-FORMED STEEL FRAMING

A. ALL COLD-FORMED STEEL FRAMING SHALL BE MANUFACTURED BY CURRENT MEMBERS OF THE STEEL STUD MANUFACTURER'S ASSOCIATION (SSMA) AND SHALL BE OF THE MINIMUM TYPES AND SIZES INDICATED ON THE DRAWINGS.

B. ALL MEMBERS 16 GAGE AND HEAVIER SHALL BE FORMED FROM STEEL CONFORMING TO ASTM A653, GRADE 50. ALL MEMBERS 18 GAGE AND LIGHTER SHALL BE FORMED FROM STEEL CONFORMING TO ASTM A653, GRADE 33. ALL MEMBERS SHALL BE GALVANIZED WITH A G-60 COATING MEETING THE REQUIREMENTS OF ASTM A924.

C. PROVIDE ALL ACCESSORIES INCLUDING, BUT NOT LIMITED TO, TRACKS, CLIPS, WEB STIFFENERS, ANCHORS, FASTENING DEVICES, RESILIENT CLIPS, BRIDGING, AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE AND PROPER INSTALLATION, AND AS RECOMMENDED BY THE MANUFACTURER FOR THE STEEL MEMBERS USED.

D. FASTENING OF COMPONENTS SHALL BE BY SELF-DRILLING SCREWS OR BY WELDING. WIRE TYING OF COMPONENTS WILL NOT BE ALLOWED. SCREWS OR WELDS SHALL BE OF SUFFICIENT SIZE TO INSURE THE STRENGTH OF THE CONNECTION. WELDING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS EXPERIENCED IN WELDING OF SHEET METAL. ALL WELDS OF GALVANIZED STEEL SHALL BE TOUCHED UP WITH A ZINC-RICH PAINT.

E. ALL FRAMING COMPONENTS SHALL BE CUT FOR TIGHT FIT AGAINST ABUTTING MEMBERS AND SHALL BE PLUMBED, ALIGNED, AND SECURELY ATTACHED TO PREVENT ROTATION, TWISTING OR ANY OTHER DISPLACEMENT.

F. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW PRIOR TO ANY FABRICATION OR INSTALLATION OF EXTERIOR WALL FRAMING. SHOP DRAWINGS SHALL INCLUDE MATERIAL CUTSHEETS, DETAILS TO BE USED AND FRAMING ELEVATIONS SHOWING THE LAYOUT OF ALL STEEL STUD FRAMING MEMBERS AS WELL AS ADDITIONAL STRUCTURAL STEEL FRAMING REQUIRED FOR THE SUPPORT OF WALL SYSTEMS.

VI. METAL DECKING

A. METAL DECK SHALL BE BY VERCO MANUFACTURING CO. OR APPROVED EQUAL OF THE TYPES AND GAGES SHOWN ON THE DRAWINGS.

B. DECKING SHALL BE ATTACHED TO STEEL SUPPORTS AND HAVE SIDE LAP ATTACHMENTS AS SHOWN ON THE DRAWINGS.

C. DECK WELDING SHALL BE DONE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY'S SPECIFICATIONS AND SHALL BE PERFORMED BY WELDERS EXPERIENCED IN METAL DECK WELDING.

D. DECKING SHALL BEAR NO LESS THAN 2" ON STEEL SUPPORTS AND SHALL SPAN CONTINUOUSLY OVER NO LESS THAN THREE CONSECUTIVE SPANS WHEREVER POSSIBLE.

E. ITEMS SUSPENDED FROM FLOOR AND ROOF DECK SYSTEMS SHALL CONFORM TO THE APPROPRIATE TYPICAL DETAILS. IF ALTERNATE SUPPORT SYSTEMS FOR SUSPENDED ITEMS ARE DESIRED, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ARCHITECT FOR APPROVAL. ALTERNATE SUPPORT FRAMING SHALL CONNECT TO APPROPRIATE STEEL FRAMING AND SHALL NOT CONNECT TO METAL DECK.

F. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE SHORING AS REQUIRED TO ENSURE THAT CONSTRUCTION LOADS PLACED ON PLAIN OR COMPOSITE METAL DECK DO NOT EXCEED THE DECK LOAD BEARING CAPACITY.

G. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO ANY FABRICATION.

VII. HOLES IN STRUCTURES

A. OPENINGS, POCKETS, HOLES, CANS, ETC. SHALL NOT BE PLACED IN ANY SLAB, BEAM, COLUMN, WALL, OR OTHER STRUCTURAL MEMBER UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS OR WRITTEN PERMISSION IS OBTAINED FROM THE ARCHITECT.

B. DO NOT OVERCUT AT CORNERS WHEN CUTTING A NEW OPENING IN EXISTING CONCRETE OR MASONRY; COREDRILL, CHIP AND GRIND AS REQUIRED AT CORNERS. A LAYOUT OF ALL PROPOSED OPENINGS SHALL BE REVIEWED BY THE ARCHITECT PRIOR TO SAWCUTTING.

C. UTILIZE CURRENT TECHNOLOGY DETECTION EQUIPMENT TO LOCATE OBSTACLES (REBAR, ELECTRICAL, ETC.) WITHIN CONCRETE (FLOORS, WALLS, CEILINGS, ROOFS, ETC.) AT EVERY LOCATION WHERE CONCRETE IS TO BE PENETRATED (DRILLING, SAWING, CORING, ETC.). PROVIDE RESULTS TO THE COTR AT LEAST 48 HOURS PRIOR TO THE PENETRATION ACTION. ANY OBSTACLES DAMAGED SHALL BE REPAIRED IN A MANNER ACCEPTABLE TO THE COTR AT THE CONTRACTOR'S EXPENSE.

VIII. POST INSTALLED ANCHORS

A. EXPANSION ANCHORS IN CONCRETE OR MASONRY SHALL BE ITW RAMSET/REDHEAD "TRUBOLT+" WEDGE ANCHORS PER ICC REPORT ESR-2427, OR APPROVED EQUAL. SPECIAL INSPECTION REQUIRED.

B. EPOXY/ADHESIVE ANCHORS SHALL USE SIMPSON "SET-XP" EPOXY PER ICC-ES REPORT ESR-2508 (IN CONCRETE) OR SIMPSON "SET" EPOXY PER ICC-ES REPORT ESR-1772 (IN MASONRY), OR APPROVED EQUAL. SPECIAL INSPECTION REQUIRED.

C. HEAVY DUTY SCREW ANCHORS SHALL BE SIMPSON "TITEN HD" PER ICC-ES REPORT ESR-2713 (IN CONCRETE) OR ESR-1056 (IN MASONRY), OR APPROVED EQUAL. SPECIAL INSPECTION REQUIRED.

D. DROP-IN ANCHORS IN CONCRETE SHALL BE SIMPSON DROP-IN ANCHORS PER ICC-ES REPORT ESR-1396, OR APPROVED EQUAL.

E. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ALL EVALUATION REPORT AND MANUFACTURER RECOMMENDATIONS AND SPECIAL INSPECTION SHALL BE PROVIDED WHERE REQUIRED.

F. WHERE POST INSTALLED ANCHORS ARE TO BE USED, IT SHALL BE THE CONTRACTOR'S DIRECT RESPONSIBILITY TO COORDINATE THE LOCATIONS OF REINFORCING STEEL OR OTHER SIMILARLY EMBEDDED ITEMS TO WORK WITH POST INSTALLED ANCHORS AND TO AVOID CONFLICTS WHEN DRILLING HOLES.

IX. PERFORMANCE SPECIFICATION (DEFERRED SUBMITTAL) ITEMS

A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING COMPLETE DESIGN AND CONSTRUCTION OF THE FOLLOWING ITEMS:

1. SUPPORT, BRACING AND ANCHORAGE OF NON-STRUCTURAL (ARCHITECTURAL, MECHANICAL, ELECTRICAL, SPRINKLER, ETC.) COMPONENTS AND SYSTEMS FOR WIND OR SEISMIC LOADS IN ACCORDANCE WITH ASCE 7-05, CHAPTER 6 (WIND) AND CHAPTER 13 (SEISMIC).
2. METAL FABRICATIONS INCLUDING THE FOLOWING: SUPPORT FRAMING, BRACING, AND ANCHORAGE FOR WALL AND CEILING MOUNTED ITEMS, OVERHEAD AND TRACKED TYPE DOOR AND GATE SYSTEMS, KITCHEN HOODS AND EQUIPMENT, AND ARCHITECTURAL TRELLIS. SEE SPECIFICATION SECTION 05 50 00.
3. COLD FORMED METAL FRAMING. SEE SPECIFICATION SECTION 05 40 00.

B. THE ITEMS LISTED ABOVE ARE NOT INTENDED TO BE ALL INCLUSIVE AND ONLY REPRESENT STRUCTURAL PORTIONS OF THE WORK. ADDITIONAL PERFORMANCE SPECIFICATION ITEMS MAY BE REQUIRED. REFER TO THE DESIGN DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL ITEMS AND REQUIREMENTS.

C. WHERE CALLED OUT, SIZES OF SUCH ITEMS IN THESE DRAWINGS ARE MINIMUMS TO BE VERIFIED BY THE FINAL DESIGN PROVIDED BY THE CONTRACTOR, HIS SUBCONTRACTOR OR HIS CONSULTANT.

D. WHERE SEPARATE PERFORMANCE SPECIFICATION ITEMS INTERACT, THE DESIGN OF EACH ITEM SHALL INCLUDE THE INTERACTION EFFECTS AND SHALL BE COORDINATED WITH ONE ANOTHER.

E. PERFORMANCE SPECIFICATION SYSTEMS, COMPONENTS AND THEIR ATTACHMENTS SHALL BE DESIGNED TO ACCOMMODATE DRIFT OF THE MAIN STRUCTURAL FRAME IN ACCORDANCE WITH ASCE 7-05 SECTION 13.3.2. MAIN STRUCTURAL FRAME DESIGN STORY DRIFT SHALL BE ASSUMED TO EQUAL 2.5% OF THE STORY HEIGHT PER ASCE 7-05, SECTION 12.12, UNLESS NOTED OTHERWISE.

F. PERFORMANCE SPECIFICATION ITEM DESIGNS SHALL BE STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEVADA. DESIGNS ARE TO BE SUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

X. QUALITY ASSURANCE PLAN

A. THE INTENT OF THIS QUALITY ASSURANCE PLAN IS TO IDENTIFY STRUCTURAL SYSTEMS OR ELEMENTS THAT ARE CRITICALLY IMPORTANT TO THE STRUCTURE'S ABILITY TO SAFELY RESIST CODE REQUIRED LOADS. QUALITY ASSURANCE FOR THE ITEMS LISTED BELOW WILL BE ACCOMPLISHED THROUGH THE USE OF SPECIAL INSPECTION & MATERIALS TESTING AND STRUCTURAL OBSERVATION. IN ADDITION, THE CONTRACTOR SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND OWNER IN ACCORDANCE WITH THE 2006 IBC SECTION 1706.

B. LATERAL FORCE RESISTING SYSTEM(S): ORDINARY STEEL MOMENT FRAMES AND ORDINARY STEEL CONCENTRICALLY BRACED FRAMES.

XI. SPECIAL INSPECTION AND MATERIAL TESTING

A. SPECIAL INSPECTION AND ASSOCIATED MATERIALS TESTING SHALL BE PROVIDED BY THE CONTRACTOR FOR THE PROCESSES AND MATERIALS REQUIRED FOR CONSTRUCTION. THE TYPE AND FREQUENCY OF SPECIAL INSPECTIONS AND MATERIALS TESTING AS WELL AS THE FREQUENCY AND DISTRIBUTION OF RELATED REPORTS SHALL BE AS INDICATED IN THE CONSTRUCTION DOCUMENTS AND AS REQUIRED BY ALL APPLICABLE CODES.

B. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE ARCHITECT AND OWNER. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN IF UNCORRECTED, TO THE ARCHITECT AND OWNER. AT THE CONCLUSION OF WORK, THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT TO THE ARCHITECT AND OWNER INDICATING THE WORK REQUIRING SPECIAL INSPECTION WAS INSPECTED AND IS IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS AND THAT ALL DISCREPANCIES NOTED IN THE INSPECTION REPORTS HAVE BEEN CORRECTED.

C. SPECIAL INSPECTIONS IN ACCORDANCE WITH 2006 IBC CHAPTER 17 SHALL BE REQUIRED FOR THE FOLLOWING STRUCTURAL ITEMS:

1. STEEL CONSTRUCTION IN ACCORDANCE WITH 2006 IBC TABLE 1704.3.
2. CONCRETE CONSTRUCTION IN ACCORDANCE WITH 2006 IBC TABLE 1704.4.
3. SOILS IN ACCORDANCE WITH 2006 IBC TABLE 1704.7.
4. POST INSTALLED ANCHORS IN ACCORDANCE WITH EVALUATION REPORTS AND MANUFACTURER RECOMMENDATIONS.

D. THE SPECIAL INSPECTIONS LISTED ABOVE ARE NOT INTENDED TO BE ALL INCLUSIVE AND ONLY REPRESENT SPECIAL INSPECTIONS FOR STRUCTURAL PORTIONS OF THE WORK. ADDITIONAL SPECIAL INSPECTIONS OF ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING OR OTHER SYSTEMS MAY BE REQUIRED. REFER TO THE APPROPRIATE DESIGN DISCIPLINES FOR ADDITIONAL INFORMATION.

XII. STRUCTURAL OBSERVATION

A. THE CONTRACTOR SHALL PROVIDE THE ARCHITECT WITH WRITTEN NOTICE 48 HOURS PRIOR TO THE FOLLOWING CONSTRUCTION ACTIVITIES SO THAT APPROPRIATE STRUCTURAL OBSERVATION MAY BE PERFORMED: CONCRETE PLACEMENT, STEEL ERECTION, DIAPHRAGM NAILING/WELDING, AND GROUTING OF MASONRY. DEFICIENCIES WILL BE REPORTED IN WRITING TO THE CONTRACTOR FOR CORRECTION, THEN IF UNCORRECTED, TO THE BUILDING OFFICIAL. AT THE CONCLUSION OF WORK, THE STRUCTURAL ENGINEER WILL REVIEW THE PROJECT FOR GENERAL CONFORMANCE WITH PROJECT REQUIREMENTS. IF, IN THE OPINION OF THE STRUCTURAL ENGINEER, THE PROJECT STILL CONTAINS REPORTED DEFICIENCIES THAT HAVE NOT BEEN ADDRESSED BY THE CONTRACTOR, A WRITTEN STATEMENT WILL BE SENT TO THE ARCHITECT INDICATING THAT SITE VISITS HAVE BEEN MADE AND THAT CERTAIN DEFICIENCIES REMAIN UNRESOLVED.

FULLY SPRINKLERED

Revisions:	Date

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Drawing Title	Project Title	Project Number
STRUCTURAL COVER SHEET GENERAL NOTES	VA SIERRA NEVADA HEALTH CARE SYSTEM - CANTEEN RELOCATION DESIGN - , RENO, NEVADA	654-11-227
		Building Number: 1
Approved: Project Director	Location: 975 KIRMAN AVE., RENO, NEVADA 89502	Drawing Number: 1-SS0.1
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Office of Construction and Facilities Management
Department of Veterans Affairs