Golden Eagle Little League Fields Expansion
Restroom and Storage Building

City of Sparks
6200 Touchdown Drive
Sparks, Nevada 89436

Bid # 14/15-001 PWP # WA-2014-224

May 09, 2014

Permit/Bid Set

Approved By:_____Date:_____
Neil C. Krutz, P.E. - Deputy City Manager
Deputy City Manager

Approved By:_____Date:_____
Tracy Domingues
Director, Parks and Recreation

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JEFFREY M. KLIPPENSTEIN REGISTERED No. 2687 5.9.2014 ARCHITECT STATE OF NEVADA

△	Date	Revision

Consultant

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Golden Eagle Little League Fields
Restroom and Storage Building

City of Sparks
6200 Touchdown Drive
Sparks, Nevada 89436

Title Sheet

May 09, 2014
H+K Project No: 1408

G001

Abbreviations

&	And
@	At
(e)	Existing
⊥	Perpendicular
#	Pound or Number

A

Adj.	Adjustable
Aggr.	Aggregate
Alt.	Alternate
Alum.	Aluminum
Approx.	Approximately
Arch.	Architectural/Architect
A.C.	Asphalt Concrete

B

Bm.	Beam
Blk.	Block
Blkg.	Blocking
Bd.	Board
B.O.	Bottom of
Bldg.	Building
B.U.R.	Built up Roofing

C

C.I.	Cast Iron
C.B.	Catch Basin
Clg.	Ceiling
Ctr.	Center
C.L.	Center Line
Cer.	Ceramic
C.O.	Cleanout
C.W.	Cold Water
Col.	Column
Conc.	Concrete
Conn.	Connection
Const.	Construction
C.J.	Construction Joint
Contin.	Continuous
Contr.	Contractor
Cu. Ft.	Cubic Foot

D

D.G.	Decomposed Granite
Dept.	Department
Det.	Detail
Dia.	Diameter
Diff.	Diffuser
Dim.	Dimension
Dbl.	Double
DN	Down
D.S.	Downspout
Dwg.	Drawing
D.F.	Drinking Fountain

E

Ea.	Each
Etc.	Etcetera
E.W.C.	Electric Water Cooler
Elec.	Electrical
Elev.	Elevation
Emer.	Emergency
Encl.	Enclosure
Eq.	Equal
Equip.	Equipment
Exh.	Exhaust
Exp.	Expansion
E.J.	Expansion Joint
Ext.	Exterior

F

F.O.	Face of
Fin.	Finish
F.G.	Finish Grade
F.E.	Fire Extinguisher
F.E.C.	Fire Extinguisher Cabinet
Fprf.	Fireproof(ing)
Fixt.	Fixture
Flash.	Flashing
Flr.	Floor
F.D.	Floor Drain
F.L.	Flow Line
Ft.	Foot
Ftg.	Footing
Fdn.	Foundation
FBO	Furnished by Others
Furr.	Furring
Fut.	Future

G

Galv.	Galvanized
G.I.	Galvanized Iron
Ga.	Gage
Gen.	General
Gl.	Glass
GLB	Glue-Laminated Beam
Gyp.	Gypsum

H

Ht.	Height
H.C.	Hollow Core
H.M.	Hollow Metal
Horiz.	Horizontal
H.B.	Hose Bibb
H.W.	Hot Water
Hr.	Hour

I

In.	Inch(es)
I.D.	Inside Diameter
Insul.	Insulation
Int.	Interior

J

Jt.	Joint

L

Lab	Laboratory
Lav.	Lavatory
Lt.	Light

M

Mfr.	Manufacturer
M.O.	Masonry Opening
Max.	Maximum
Mech.	Mechanical
Memb.	Membrane
Met.	Metal
Min.	Minimum
Misc.	Miscellaneous
MPH	Miles per hour
Mtd.	Mounted

N

Nom.	Nominal
N.I.C.	Not in Contract
N.T.S.	Not to Scale
No.	Number

O

O.C.	On Center
O.D.	Outside Diameter
O.H.	Opposite Hand

P

Pr.	Pair
P. Lam.	Plastic Laminate
Pl.	Plate
Plywd.	Plywood
Pt.	Point
Prefab.	Prefabricated
Prop.	Property
PSF	Pounds per square foot
PSI	Pounds per square inch

R

Rad.	Radius
Ref.	Reference
Reinf.	Reinforced
Req.	Required
R.A.	Return Air
Rev.	Revision
R.O.W.	Right of Way
R.D.	Roof Drain
Rm.	Room
R.O.	Rough Opening

S

Sched.	Schedule
Sect.	Section
Sht.	Sheet
Sim.	Similar
S.C.	Solid Core
Spec.	Specification
Sq.	Square
SF	Square foot
St. Stl.	Stainless Steel
Std.	Standard
Stl.	Steel
Stg.	Storage
Struct.	Structural
Susp.	Suspended
Sym.	Symmetrical

T

Tel.	Telephone
T.V.	Television
T.&G.	Tongue and Groove
T.C.	Top of Curb (or Concrete)
T.O.	Top of

U

U.N.O.	Unless Noted Otherwise

V

Vert.	Vertical
V.C.T.	Vinyl Composition Tile

W

W.C.	Water Closet
Wt.	Weight
W.F.	Wide Flange
Wdw.	Window
W/	With
W/O	Without
Wd.	Wood
W.J.	Weakened Plane Joint

Y

Yd.	Yard

General Notes

1. These general notes pertain to work described on all contract documents.
2. The contract documents consist of the owner-contractor agreement, the conditions of the contract (general, supplementary and other conditions), the drawings, the specifications, and all addenda issued prior to and all modifications issued after execution of the contract.
3. The work comprises the completed construction required by the contract documents and includes all labor necessary to produce such construction, and all materials and equipment incorporated or to be incorporated in such construction.
4. Shop drawings, product data and samples are not a part of the contract documents. The Architect will review them, but only for conformance with the design concept of the work and with the information given in the contract documents. The Contractor shall not be relieved of responsibility for any deviation from the requirements of the contract documents by the Architect's review of shop drawings, product data or samples.
5. The Contractor shall carefully study and compare the contract documents and shall at once report to the Architect any error, inconsistency or omission he may discover. The Contractor shall perform no portion of the work at any time without contract documents or, where required, approved shop drawings, product data or samples for such portion of the work.
6. All work is to conform with the contract documents. Drawings are NOT to be scaled for information. If unable to locate dimensions for any item of work, consult with the Architect before proceeding with construction.
7. In the event certain features of the construction are not fully shown on the contract documents, then 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.
8. All work shall be performed within strict conformance to the minimum standards of the current edition of the adopted building codes of the authority having jurisdiction and all applicable national, state, and local laws, regulations, and ordinances.
9. The Contractor shall be responsible for the general safety during construction, and all work shall conform to pertinentsafety regulations.
10. The Contractor shall coordinate locations of any and all mechanical, telephone, electrical, lighting and plumbing including all piping, ductwork and conduit. Coordinate all required clearances for installation and maintenance of the above equipment.
11. The Contractor shall supervise and direct the work, using his best skill and attention. He shall be solely responsible for all construction means, methods, techniques, sequences and procedures and for coordinating all portions of the work under the contract.
12. The Contractor shall be responsible for the acts and omissions of his employees, subcontractors, and their agents and employees, and other persons performing any work under a contract with the Contractor.
13. The Contractor shall pursue work in a continuous and diligent manner to ensure a timely completion of the project.
14. The Contractor at all times shall keep the premises free from accumulation of waste materials or rubbish caused by his operations. At the completion of the work he shall remove all his waste materials and rubbish from and about the project as well as all his tools, construction equipment, machinery, and surplus materials.
15. The Contractor shall be responsible for the location and/or protection of all existing and proposed piping, utilities, structures, adjacent streets and improvements during the period of construction.
16. Unless otherwise provided in the contract documents, the Contractor shall provide and pay for all labor, materials, equipment, tools, construction equipment and machinery, water, heat, utilities, transportation, and other facilities and services necessary for the proper execution and completion of the work.
17. Where conflicts occur, coordinate the layout and exact location of all partitions, doors, telephones, and electrical/communication outlets and switches with Architect in the field before proceeding with construction.
18. Where conflict is encountered between the contract documents that will materially affect the quality or extent of the work, such conflict shall be resolved to the satisfaction of the Architect before the affected items and/or material are purchased, fabricated and/or installed.
19. Where pre-manufactured or prefabricated items and/or materials are to be installed - the Contractor shall verify rough or finished dimensions in the field prior to purchase or fabrication.
20. The Contractor shall guarantee all work and materials to be free from defects for a minimum of one year from date of final acceptance, and promptly remedy such defects and any subsequent damage caused by the defects or repair thereof, at no expense to the owner. Guarantee periods of greater than one year may be required and contained within the contract documents.
21. Where any item and/or material is indicated in the contract documents, and not necessarily detailed in each specific case, but is required for a complete and professional installation - such item and/or material shall provided as if shown and detailed in full. Provide means to furnish and install.
22. Contractor is requested to visit the site as part of the pre-bid site visit to compare the drawings and specifications with any work in place, and inform himself of all conditions, including the work, if any, being performed. Failure to visit the site will in no way relieve the Contractor from necessity of furnishing any materials or performing any work in accordance with the drawings and specifications that may be required to complete the work without additional cost to the owner.
23. Existing conditions including material sizes, configurations, and locations as shown on the drawings may not be an exact illustration of existing as-built conditions. The Contractor shall include in his bid the cost of furnishing, installing, modifying, existing and/or new materials (minor in nature) required for a complete and professional installation that may be required by minor variations between existing conditions as shown, and actual as-built conditions.

Project Team

Owner:

City of Sparks
431 Prater Way
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(775) 353-4083
(775) 353-1635 (fax)
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Email: bcason@cityofsparks.us

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(775) 826-3076 (fax)
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Email: CRoper@hyytinenengineering.com

Mechanical/Plumbing Engineer:

Ainsworth Associates Mechanical Engineer
1420 Holcomb Avenue, Suite 201
Reno, NV 89502
(775) 329-9100
(775) 329-9105 (fax)
Contact: Roger Gravelle
Email: rgravelle@aa-me.com

Electrical Engineer:

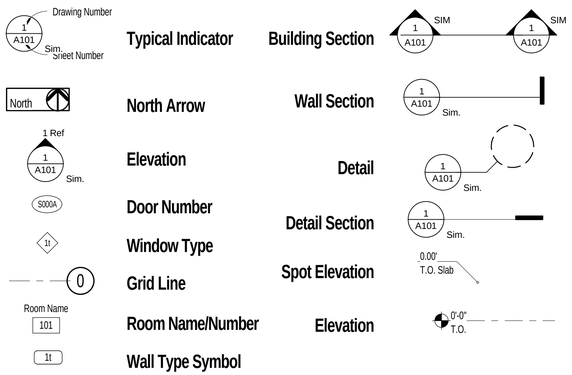
JP Engineering
10597 Double R Blvd. #1
Reno, NV 89521
(775) 852-2337
(775) 852-2352 (fax)
Contact: James Solaro, PE
Email: James@jpengrv.com

Sheet Index

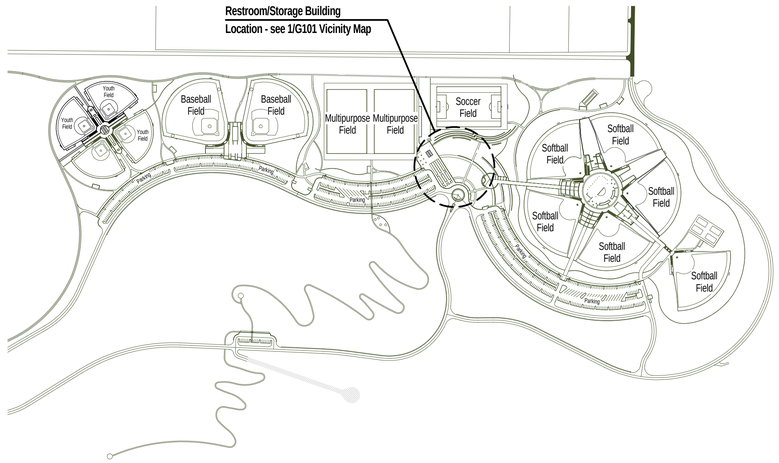
Design Criteria

Applicable Codes:	
Building Code:	2012 International Building Codes (IBC)
Mechanical Code:	2012 Uniform Mechanical Code (UMC)
Plumbing Code:	2012 Uniform Plumbing Code (UPC)
Electrical Code:	2011 National Electrical Code (NEC)
Fire Code:	2012 International Fire Code, Vol. 1 (IFC)
	State Fire Marshal, Nevada Department of Public Safety
Regulations	
Accessibility Codes:	1994 Americans with Disabilities Act, Accessibility Guidelines and 2003 ICC/ANSI 117.1
Energy Code:	2009 International Energy Conservation Code
Occupancy Group:	U
Type of Construction:	Type V-B
Floor Area:	
First Floor:	768 Sq.Ft.
Total:	768 Sq.Ft.
Allowable Area	1 story - 9,000 Sq. Ft.
Required Area and/or Occupancy Separations:	None
Fire Sprinkler Requirements:	No
Alarm Systems:	None
No. Stories:	1
Height:	15'-11"
Insulation Requirements:	
Roof/Ceiling:	R-30
Walls:	R-15
Foundation:	R-7.5
LIVE LOADING	
Roof	23 psf
Floor - Normal	30 psf
Wind	130 mph, (Risk Category II) Exposure C
Seismic	Site Class D
DESIGN STRESSES	
Soil Bearing:	2000 psf w/ 1/3 Increase for Wind and Seismic
Concrete:	3000 psi
Rebar:	ASTM A615, Grade 60
Structural Steel	ASTM A36
Lumber:	Not Applicable
Masonry	f'm = 1500 psi

Symbols

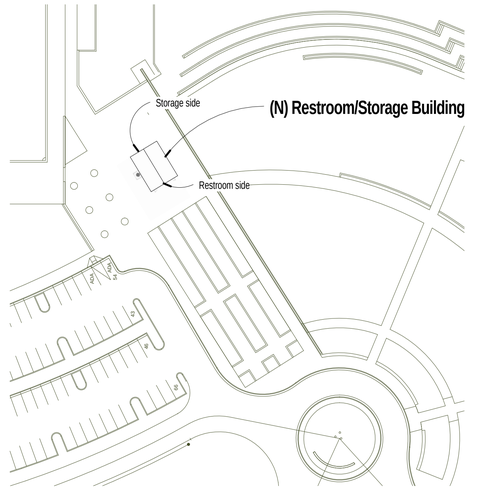


Location Map



Sparks, NV

North



1 Vicinity Map

1" = 60'-0"

North

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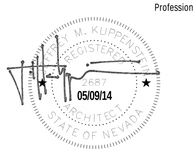

Date Revision

Consultant

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Restroom and Storage Building

City of Sparks
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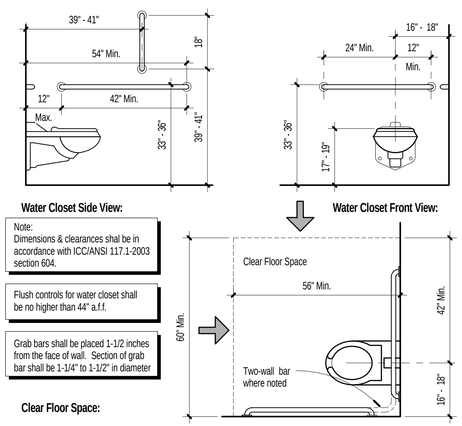
Project Data

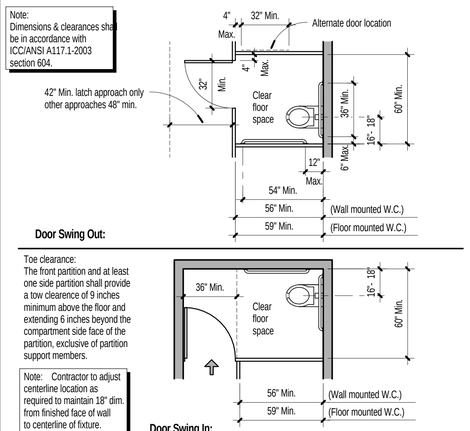
May 09, 2014
H+K Project No: 1408

G101



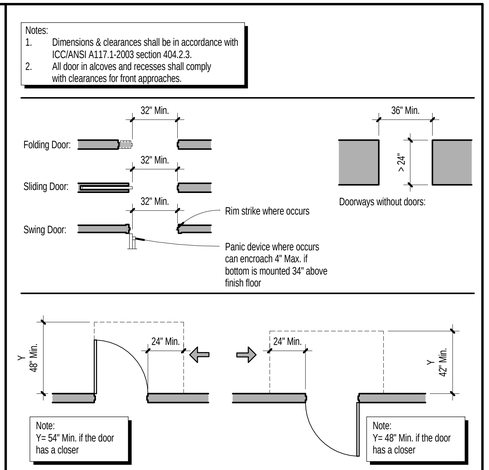
7 Single Toilet - Wall Mounted Requirements

1/2" = 1'-0"



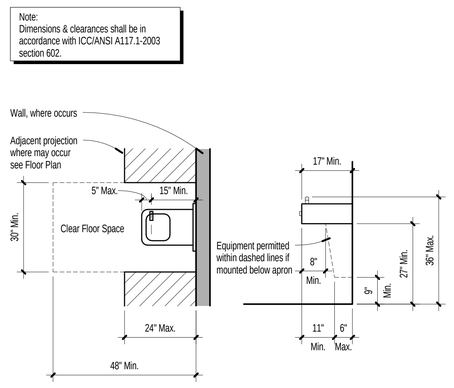
4 Wheelchair Accessible Toilet Stalls

1/4" = 1'-0"



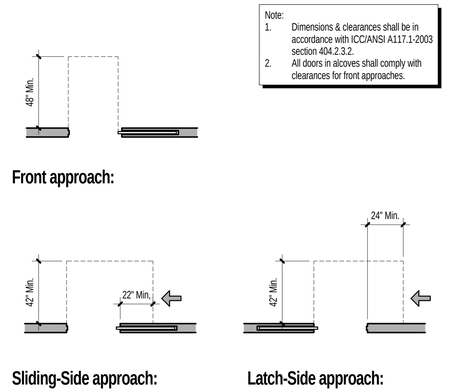
2 Swing Door Approach

1/4" = 1'-0"



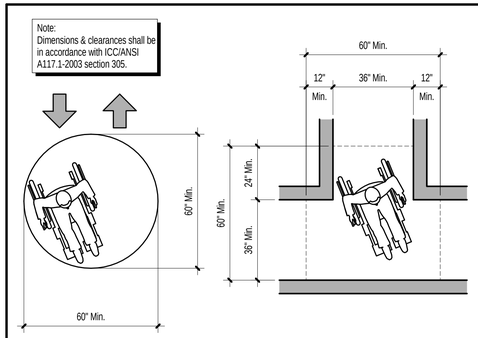
6 Accessible Drinking Fountain

1/2" = 1'-0"



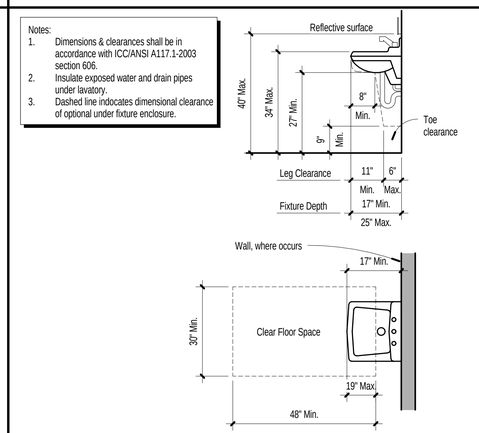
3 Sliding Door Approaches

1/4" = 1'-0"



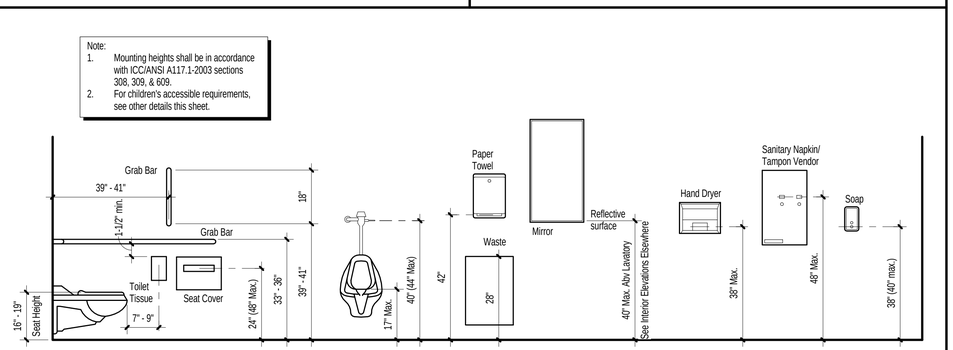
8 Wheelchair Turning Radius

3/8" = 1'-0"



5 Clearances at Lavatories and Sinks

1/2" = 1'-0"



1 Typical Accessible Toilet Accessory Mounting Heights

1/2" = 1'-0"

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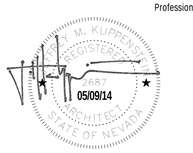

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Accessibilty Diagrams

May 09, 2014
H+K Project No: 1408

G102

BASIS OF BEARINGS

NAD83 STATE OF NEVADA STATE PLANE – WEST ZONE

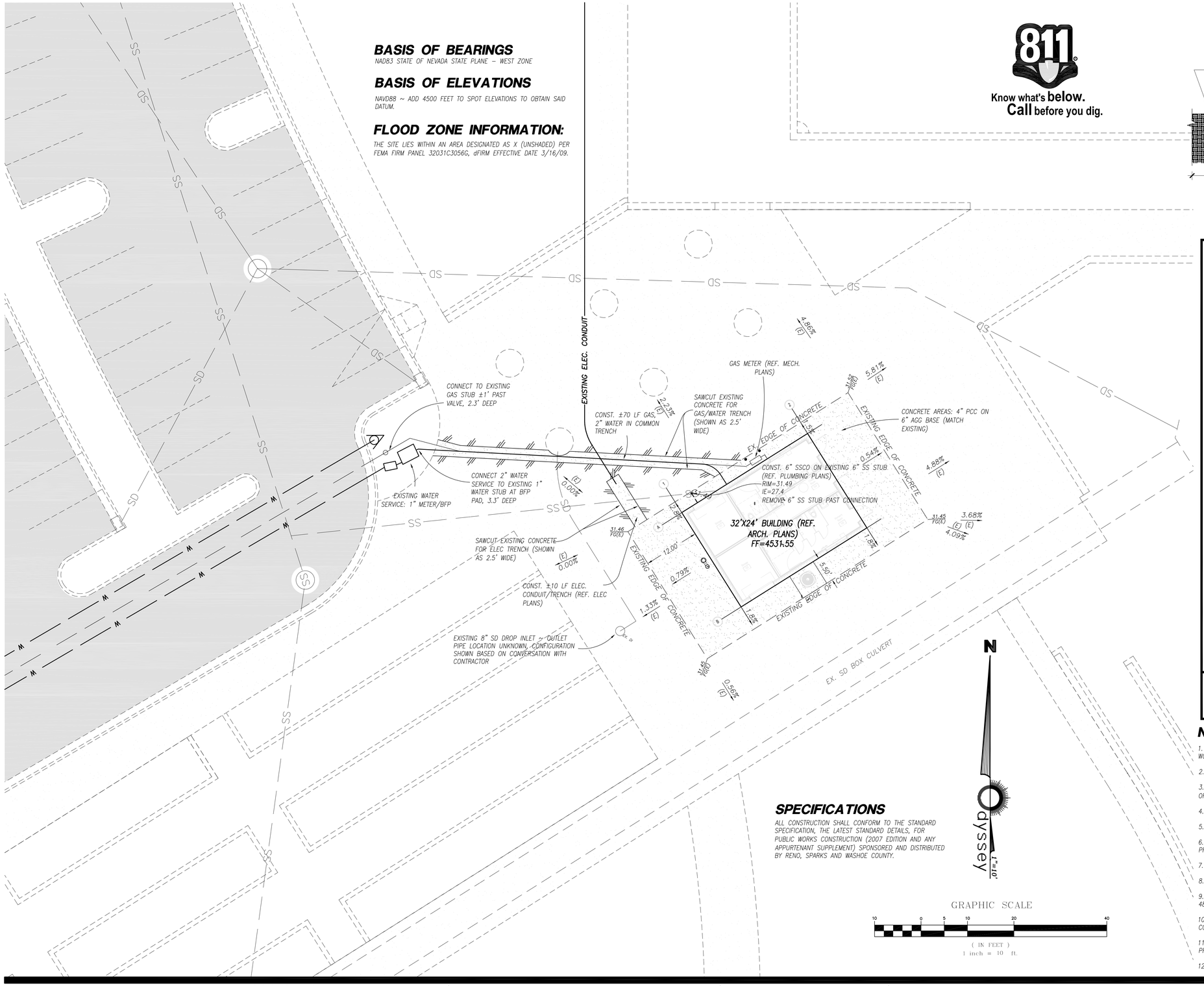
BASIS OF ELEVATIONS

NAVD88 ~ ADD 4500 FEET TO SPOT ELEVATIONS TO OBTAIN SAID DATUM.

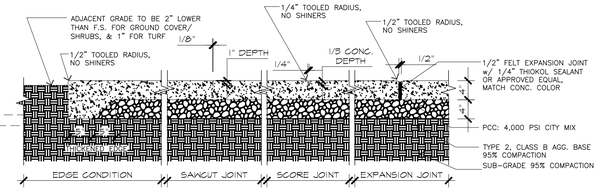
FLOOD ZONE INFORMATION:

THE SITE LIES WITHIN AN AREA DESIGNATED AS X (UNSHADED) PER FEMA FIRM PANEL 32031C3056G, dFIRM EFFECTIVE DATE 3/16/09.

811 Know what's below. Call before you dig.

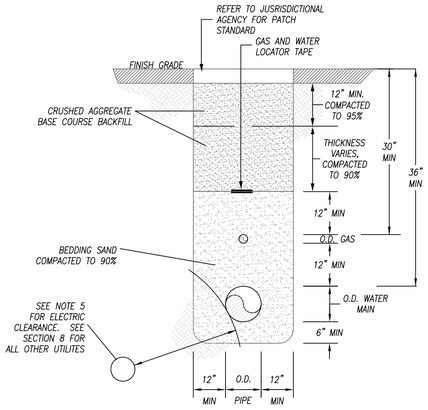


NOTES:
1. TRANSVERSE/EXPANSION JOINT TO BE PLACED EVERY 30' O.C. MAXIMUM. SCORE JOINT TO BE PLACED EVERY 10' O.C. MAXIMUM, BUT SHALL NOT EXCEED PAVING WIDTH.
2. A 2% CROSS-SLOPE MAXIMUM SHALL OCCUR ON ALL PAVING.
3. CONCRETE PAVING TO HAVE MEDIUM BROOM FINISH PERPENDICULAR TO PATH OF TRAVEL.
4. JOINTS TO OCCUR AT ALL CONCRETE CORNERS.
5. APPLY THICKENED EDGE AS REQUIRED PER PLAN.



CONCRETE PAVING

(PER PREVIOUS GOLDEN EAGLE REGIONAL PARK PLANS BY STANTEC)



NOTES:
1. ALL TRENCHES MUST CONFORM TO APPLICABLE TMWA, CITY, STATE, COUNTY, AND OSHA SPECIFICATIONS AND REQUIREMENTS. IN THE CASE OF CONFLICT, THE MORE RIGID SPECIFICATION OR STANDARD SHALL APPLY.
2. BEDDING SAND SHALL BE COMPACTED TO 90% MAXIMUM DENSITY PER SECTION 5.05.03 AND SHALL BE A MINIMUM OF 12" ABOVE AND 6" BELOW THE MAIN. PER SECTION 5 OF TMWA STANDARDS.
3. CRUSHED AGGREGATE BASE COURSE BACKFILL SHALL BE PLACED IN 12" MAXIMUM LOOSE LIFTS. THE TOP 12" SHALL BE COMPACTED TO 95% MAXIMUM DENSITY. THE AREA ABOVE THE BEDDING SAND & BELOW 12" FROM FINISH GRADE SHALL BE COMPACTED TO 90% MAXIMUM DENSITY. PER SECTION 5 OF TMWA STANDARDS.
4. METALLIC WATER AND GAS LOCATOR TAPE SHALL BE PLACED IN ALL TRENCHES AT LEAST 12" ABOVE THE GAS.
5. ELECTRIC UTILITIES MUST BE LOCATED BELOW WATER & MAINTAIN 2' MINIMUM RADIAL CLEARANCE FROM TMWA WATER FACILITIES. IF 2' RADIAL CLEARANCE CAN NOT BE MET ELECTRIC CONDUIT MUST BE CONCRETE ENCASED AT LEAST 18" EACH SIDE OF WATER CROSSING. FIBER OPTIC AND/OR COMMUNICATION CONDUITS SHALL NOT BE PLACED IN THE SAME TRENCH AS WATER.
6. ALL CHANGES MUST BE APPROVED BY THE TMWA INSPECTOR AND/OR THE TMWA ENGINEER.
7. SEPARATION FOR PIPES IN A JOINT TRENCH SHALL BE A MINIMUM OF 12".

TRUCKEE MEADOWS WATER AUTHORITY	DATE	APPENDIX 10L MISCELLANEOUS WATER DETAILS	DRAWING NUMBER
	7/2011	TRENCH DETAIL GAS AND WATER	10L-7
	REV 02/2014		

SPECIFICATIONS

ALL CONSTRUCTION SHALL CONFORM TO THE STANDARD SPECIFICATION, THE LATEST STANDARD DETAILS, FOR PUBLIC WORKS CONSTRUCTION (2007 EDITION AND ANY APPURTENANT SUPPLEMENT) SPONSORED AND DISTRIBUTED BY RENO, SPARKS AND WASHOE COUNTY.

N

Odyssey

1"=10'

GRAPHIC SCALE

10 0 5 10 20 40

(IN FEET)
1 inch = 10 ft.

NOTES

1. ALL SITE WORK CONSTRUCTION SHALL BE COMPLETED IN CONFORMANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND ANY APPURTENANT SUPPLEMENTS.
2. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND FEES REQUIRED FOR CONSTRUCTION.
3. THE CONTRACTOR SHALL VERIFY IN FIELD, ALL ELEVATIONS, DIMENSIONS, FLOW LINES, EXISTING CONDITIONS, AND POINTS OF CONNECTION WITH ADJOINING PROPERTY (PUBLIC OR PRIVATE).
4. ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.
5. THE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL DAMAGE TO EXISTING UTILITIES DURING CONSTRUCTION.
6. THE CONTRACTOR SHALL MAINTAIN A DUST CONTROL PROGRAM, INCLUDING THE CONTRACTOR SHALL MAINTAIN AN ON-GOING PROCESS OF REMOVAL OF ALL SPILLAGE OF EXCAVATION MATERIAL ON ALL PAVED STREETS.
7. LAND GRADING SHALL BE DONE IN A METHOD TO PREVENT DUST FROM TRAVERSING THE PROPERTY LINE.
8. THE CONTRACTOR SHALL NOTIFY ALL EFFECTED PUBLIC ENTITIES 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
9. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, THE SOILS ENGINEER, CITY OF SPARKS, TMWA, AND NV ENERGY 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGE TO EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION.
11. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO CONTACT THE UTILITY COMPANIES FOR LOCATIONS OR POT-HOLING PRIOR TO CONSTRUCTION.
12. ADD 4500 FEET TO ALL SPOT ELEVATIONS.

Professional Seal

PROFESSIONAL ENGINEER - STATE OF NEVADA - RYAN T. SIMS - Exp. 6-30-14 - CIVIL - No. 16951

△ Date Revision

Consultant

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H+K ARCHITECTS
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F 775+332+6642
hkarchitects.com

Golden Eagle Little League Fields Expansion Restroom/Storage Building

City of Sparks
6200 Touchdown Drive
Sparks, Nevada 89436

CIVIL
SITE/UTILITY
PLAN

May 01, 2014
H+K Project No: 1408

C101

Toilet Accessories Schedule

	Description	Model Number	Manufacturer	Remarks
A	Hand Dryer	AB04-120V	Dyson	
B	Liquid-Soap Dispenser	B-4063	Bobrick	Recessed - Contura
C	Combination Towel (Folded) Dispenser/Waste Receptacle	B-43944	Bobrick	Recessed - Contura
D	Toilet Tissue (Roll) Dispenser	B-4288	Bobrick	Surface Mounted - Contura
E	Seat Cover Dispenser	B-4221	Bobrick	Surface Mounted - Contura
F	Grab Bar	B-5837	Bobrick	
G	Diaper-Changing Station	KB100-00	Bobrick	Surface mounted w/ top at 44" A.F.F. to conform with ADA Standards
H	Vendor	B-43500	Bobrick	Recessed
J	Sanitary Napkin Disposal Unit	B-270	Bobrick	Surface Mounted - Contura
K	Mirror with Stainless Steel Angle Frame	B-165	Bobrick	
L	Mop and Broom Holder	B-239	Bobrick	Mount at 5'-6" A.F.F. to shelf
M	Grab bar	B-5806x42	Bobrick	
U	Grab Bar	B-5806x18	Bobrick	Mount in a vertical position
V	Towel (Folded) Dispenser	B-4262	Bobrick	Surface Mounted
W	Liquid-Soap Dispenser	B-4112	Bobrick	Horizontally oriented, surface mounted

Schedule Notes

1. Where grab bars are noted to be installed in new or existing surfaces install per the following:
   At gyp. board: 2562 series anchor plate
   At toilet compartments: 252-30
2. Product Specification for all toilet accessories shall be Bobrick Contura Series (U.N.O.), as listed in the manufacturer's current data, or an equal approved by the Architect.
3. Toilet Accessories are noted on the plans. Refer to the typical Toilet Accessory Mounting Heights per detail 1/G102 for mounting height of accessories.

Wall Legend

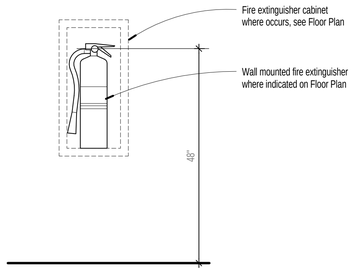
Masonry wall w/ Interior Furring: Masonry wall (see structural) w/ 3" z-furring at 24" o.c., 5/8" gypsum board on interior side only and 3" rigid insulation.

Interior Wood Stud Wall:
Wood stud wall w/ studs spaced at 16" o.c. w/ 5/8" gyp. bd. at each side. Studs size to be 2x4 (U.N.O.). All partitions are to have 3-1/2" sound attenuation batts (U.N.O.).

Sheet Notes

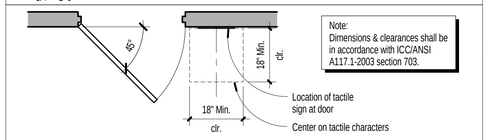
1. All door locations in gypsum board partitions not dimensioned will be 4" from the studs of perpendicular wall to door edge (U.N.O.).
2. All dimensions are from face-of-stud, face of CMU, or center of framed opening, unless noted otherwise.
3. For dimensions of masonry walls and rough openings, see the Structural drawings. Masonry dimensions shown on this plan are for reference only. Any discrepancies found between the dimensions on this sheet and the Structural drawings shall be brought to the immediate attention of the Architect.
4. Provide solid wood blocking behind all fixtures and wall mounted accessories. This includes cabinets and any other items that are wall mounted.
5. Plan symbol abbreviations are as follows, but not limited to:
   f.e.c Fire extinguisher cabinet - see 5/A101
   d.f. Drinking fountain - see Plumbing
6. See Floor Plan for location of floor drains. All floors not to exceed a cross slope of 1:50 (2%) per ADAAG.

Note:
The handle of the fire extinguisher shall be 48" A.F.F. Contractor shall coordinate mounting height of cabinet with the fire extinguisher mounting height.

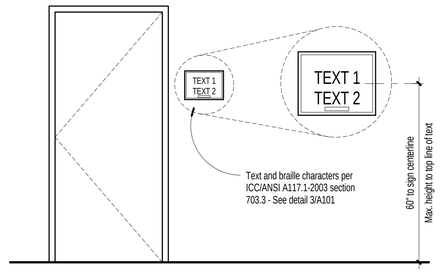


5 Typ. Fire Extinguisher Mounting Height

3/4" = 1'-0"



Note:
Dimensions & clearances shall be in accordance with ICC/ANSI A117.1-2003 section 703.

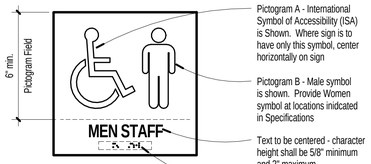


4 Typical Sign Mounting

1/2" = 1'-0"

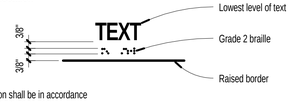
Note:
Signs shall be in accordance with ICC/ANSI A117.1-2003 section 703.

Pictogram Field



Pictogram shall contrast with field color, either light on dark or dark on light

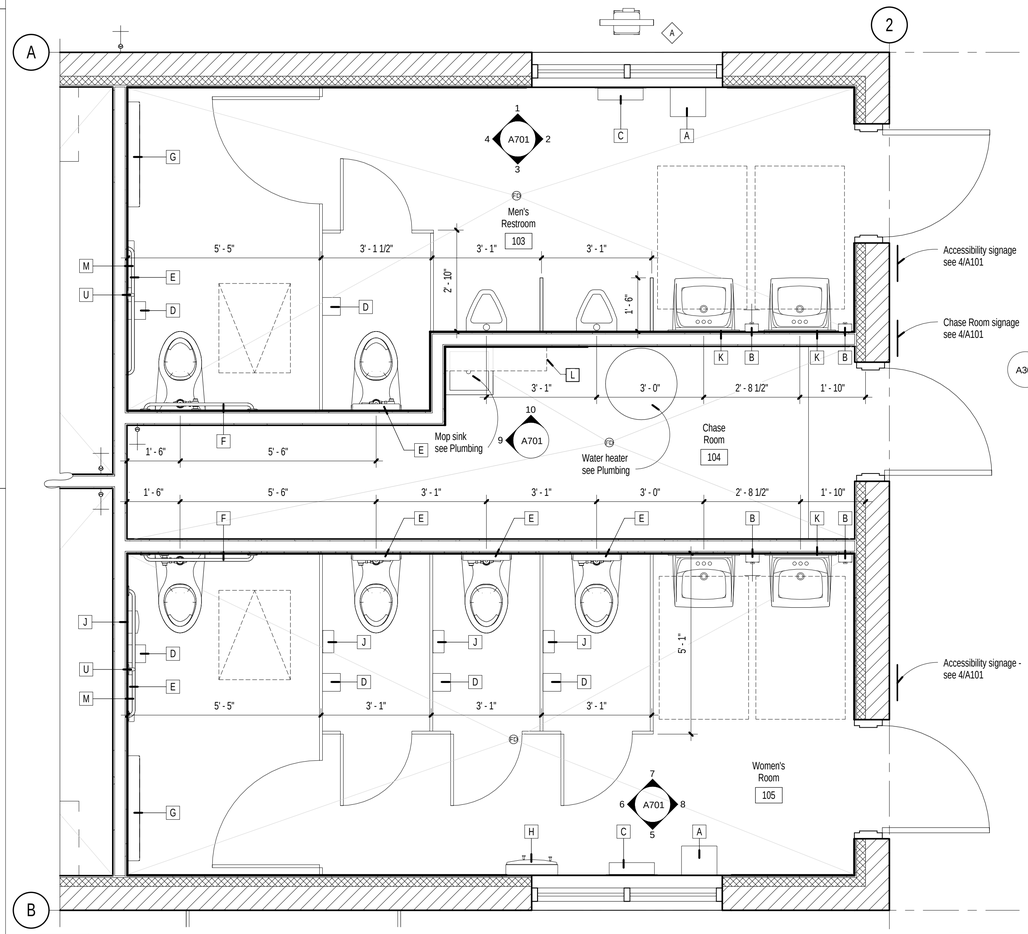
Braille Location



Braille configuration shall be in accordance with ICC/ANSI A117.1-2003 703.4

3 Sign Detail

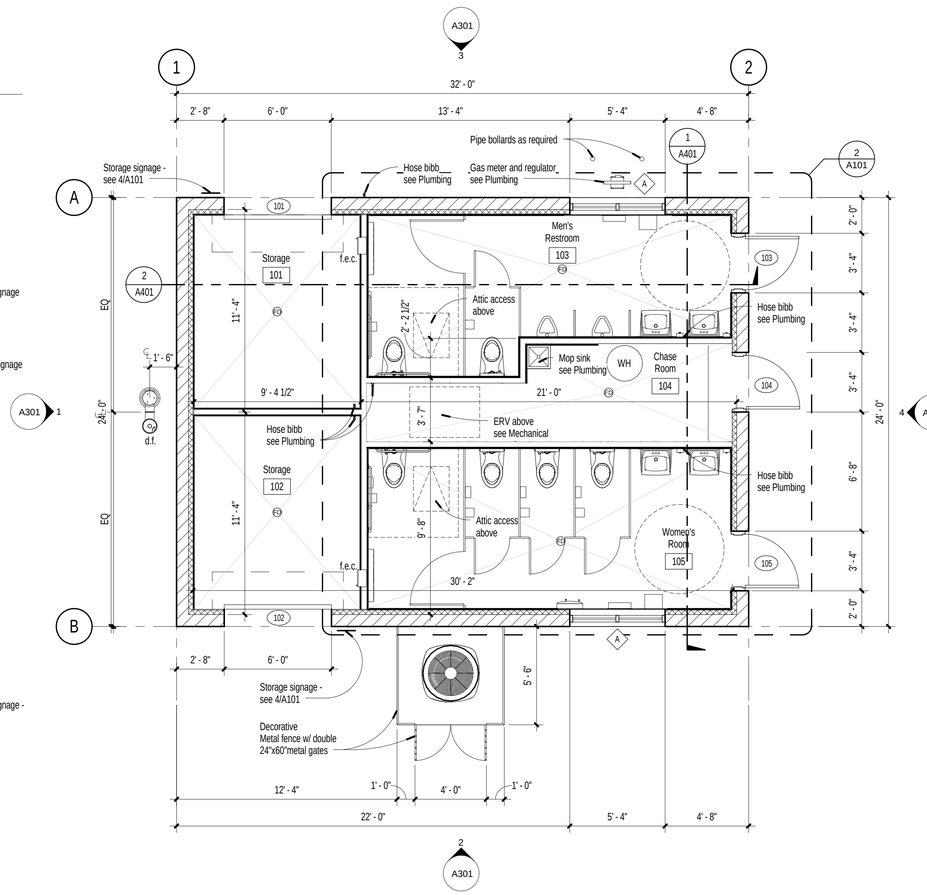
3" = 1'-0"



2 Enlarged Restroom Plan

1/2" = 1'-0"

North



1 Floor Plan

1/4" = 1'-0"

North

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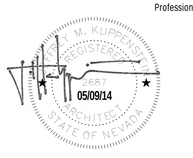
Professional Seal



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Floor Plan

May 09, 2014
H+K Project No: 1408

A101

Ceiling Plan Legend

Gypsum board ceiling, see Specifications for requirements. Texture and paint.

Indicates the ceiling height, see Plan.

0' - 0" Ceiling height above finish floor.

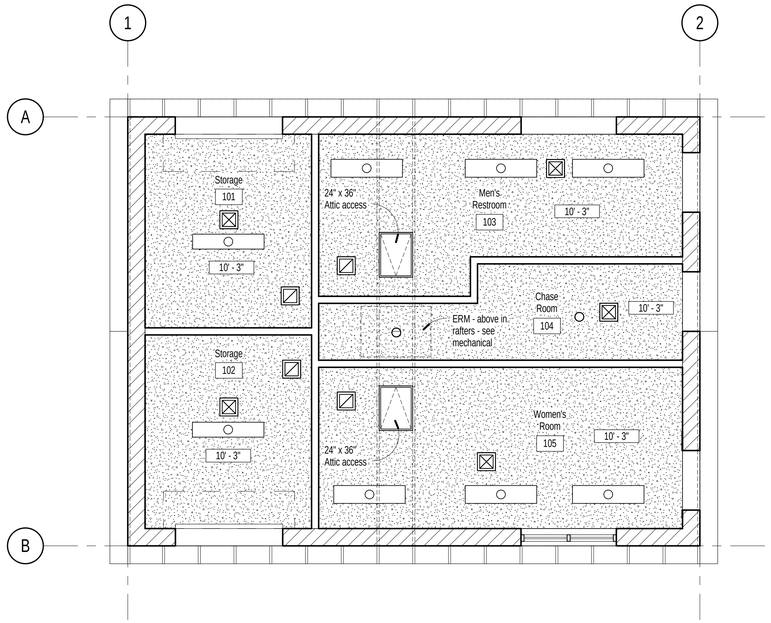
Fluorescent light fixture - see Electrical for size and type

Supply air diffuser - see Mechanical for size and type

Return air diffuser - see Mechanical for size and type

Exhaust air grille - see Mechanical for size and type

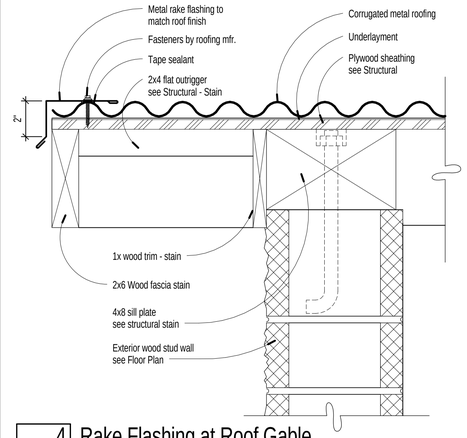
Access door - see Project Manual for configuration and type. Door shall be rated in accordance with the rating of the ceiling it is installed within.



7 Reflected Ceiling Plan

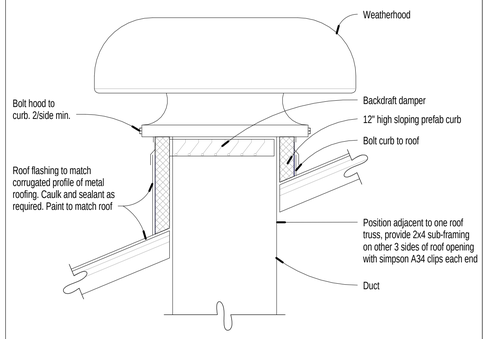
1/4" = 1'-0"

North



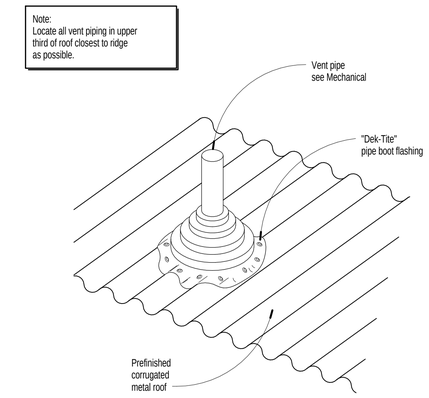
4 Rake Flashing at Roof Gable

3" = 1'-0"



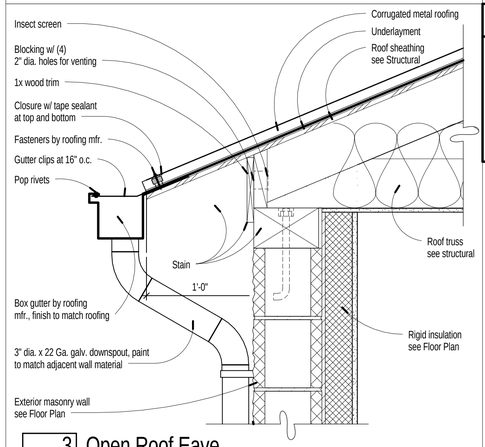
5 Weatherhood Detail

3" = 1'-0"



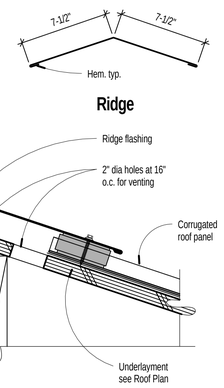
6 Vent Stack Boot Flashing

1" = 1'-0"



3 Open Roof Eave

1 1/2" = 1'-0"



2 Roof - Hip - Ridge Flashing

3" = 1'-0"

Roof Notes

1. The Roof System is to include the following:
   Prefab wood trusses at 24" o.c. with roof slope as noted on plan w/ corrugated metal roofing over underlayment over plywood sheathing (see Structural). All roof areas shall have batt insulation (R-30) wire supported between top chords of trusses over 1" corrugated baffle spacer between batts and plywood to allow venting.
2. The mechanical equipment shown on this plan is for reference only. Refer to Mechanical and Electrical drawings for exact location and quantities and other information.
3. Attic Ventilation Calculations:
   Ventiliation area required = 1001 SF / 300 = 3.3 SF
   Eave vents provided: (4) 2" dia. holes at 8 bays (8x.09) = .72
   Ridge vents provided: (36) 2" dia. holes @ 24" o.c. (36x.09) = 3.24
   Total vent area provided: .72 SF eave vents + 3.2 SF ridge vents = 3.96
4. Install expanding insulating foam around edges of all blocking at building perimeter. Install from inside of building.

1 Roof Plan

1/4" = 1'-0"

North

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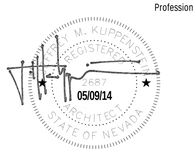
Professional Seal



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Restroom and Storage Building

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Roof & Reflected Ceiling Plan

May 09, 2014
H+K Project No: 1408

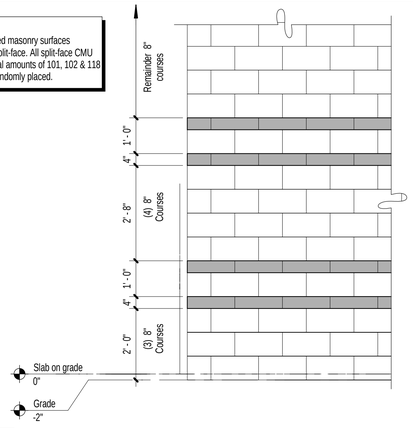
A201

Color + Materials Schedule

Split-face Masonry Units

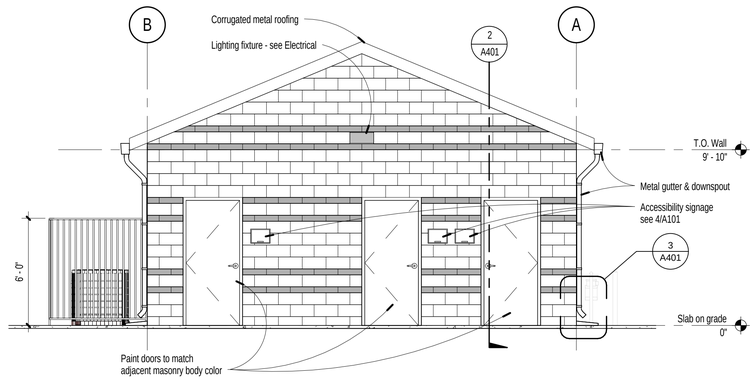
Mfg. Basalite Concrete Products LLC
Colors: #101 (33%) - Random
Colors: #102 (33%) - Random
Colors: #118 (32%) - Random
Colors: #125 (2%) - Random
Mortar Color: Match color to (e) mortar of (e) buildings on site. All joints to be raked.

Note:
All exposed masonry surfaces shall be split-face. All split-face CMU to be equal amounts of 101, 102 & 118 colors - randomly placed.



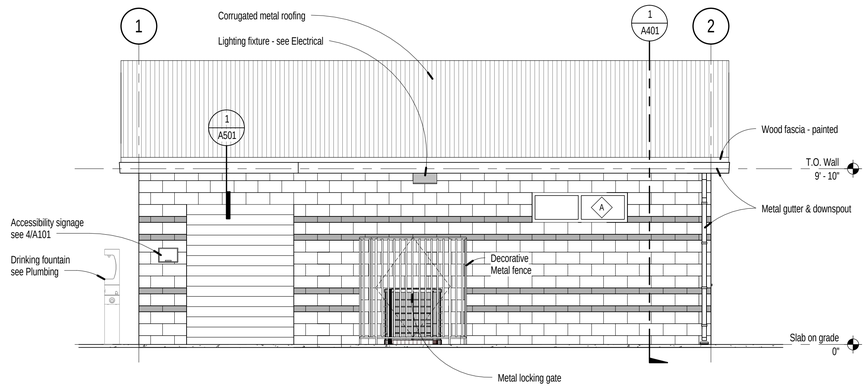
5 Masonry Pattern

1/2" = 1'-0"



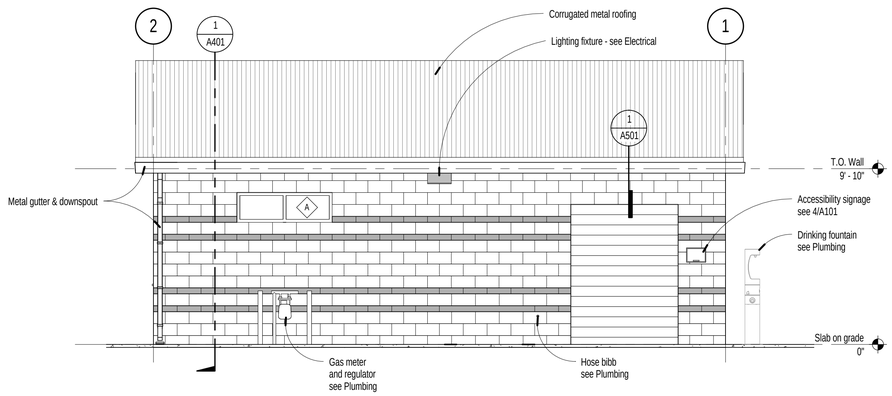
4 West Elevation

1/4" = 1'-0"



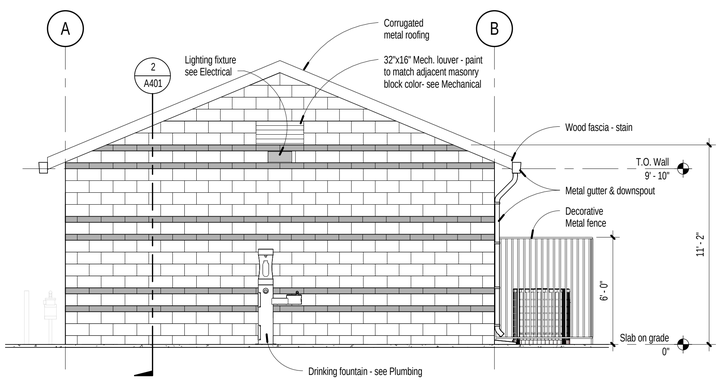
2 North Elevation

1/4" = 1'-0"



3 South Elevation

1/4" = 1'-0"



1 East Elevation

1/4" = 1'-0"

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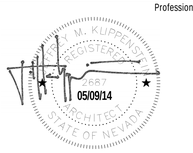

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Restroom and Storage Building

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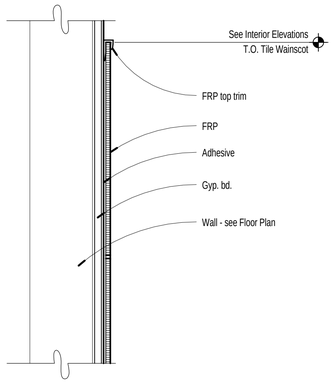
Exterior Elevations

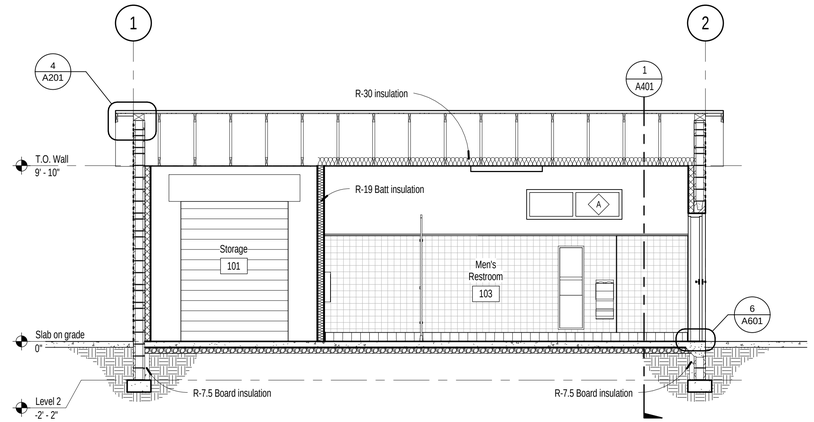
May 09, 2014
H+K Project No: 1408

A301



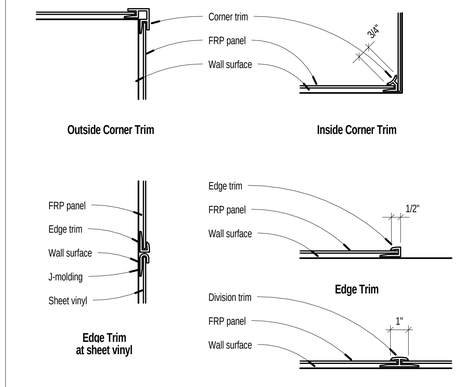
5 FRP Wainscot Top

3" = 1'-0"



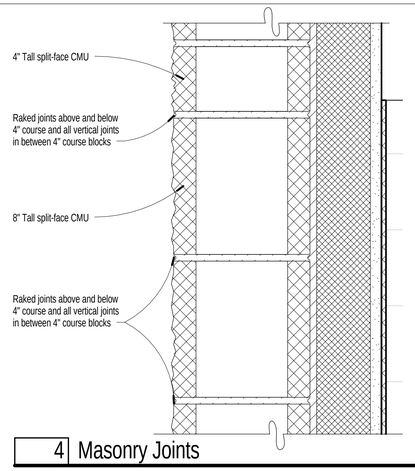
2 Section 2

1/4" = 1'-0"



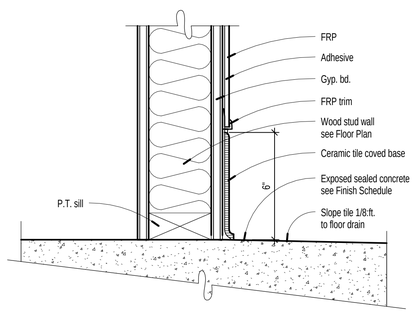
7 Typ. FRP Trim Detail

3" = 1'-0"



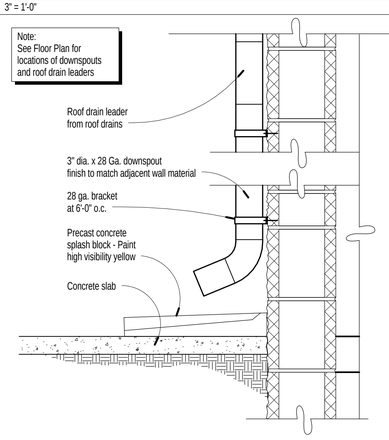
4 Masonry Joints

3" = 1'-0"



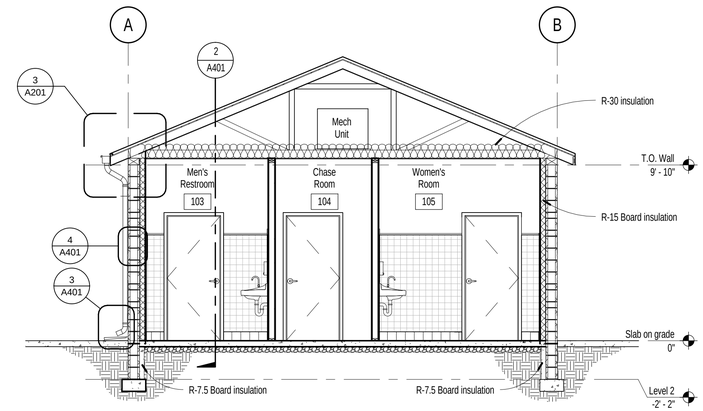
6 Ceramic Tile Base

3" = 1'-0"



3 Downspout and Splash Block (Alternate #1)

1 1/2" = 1'-0"



1 Section 1

1/4" = 1'-0"

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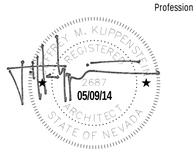
Professional Seal



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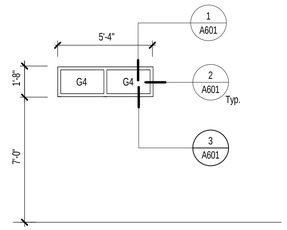
Building Sections &
Architectural Details

May 09, 2014
H+K Project No: 1408

A401

Window Elevations



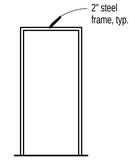
A

Frame Material: AL

Door Schedule

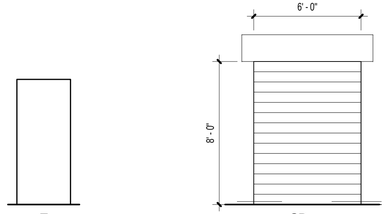
Door No.	DOOR Size	Pair	Mat'l	Type	Glass	Rating	FRAME Mat'l	Size	Elev	Glass	Rating	DETAILS Head	Strike	Hinge	Sill	Label	Hardw. Group	REMARKS
101	6'-0" x 8'-0"		Spec.	CD	-	-	Spec.	Spec.	-	-	-	2/A501	3/A501	3/A501	6/A601	-	Spec.	
102	6'-0" x 8'-0"		Spec.	CD	-	-	Spec.	Spec.	-	-	-	2/A501	3/A501	3/A501	6/A601	-	Spec.	
103	3'-0" x 7'-0"		ST	F	-	-	ST	9 3/8"	A	-	-	4/A601	5/A601	5/A601	6/A601	-	H1	
104	3'-0" x 7'-0"		ST	F	-	-	ST	9 3/8"	A	-	-	4/A601	5/A601	5/A601	6/A601	-	H1	
105	3'-0" x 7'-0"		ST	F	-	-	ST	9 3/8"	A	-	-	4/A601	5/A601	5/A601	6/A601	-	H1	

Frame Elevations



A

Door Types



F CD

Door Schedule Notes

Hardware supplier shall coordinate keying with Owner prior to submittal.

The following products are not available for substitution. This is required to coordinate with the existing hardware systems within City of Sparks.
In such case, only the products below will be accepted:
Schilage Hardware

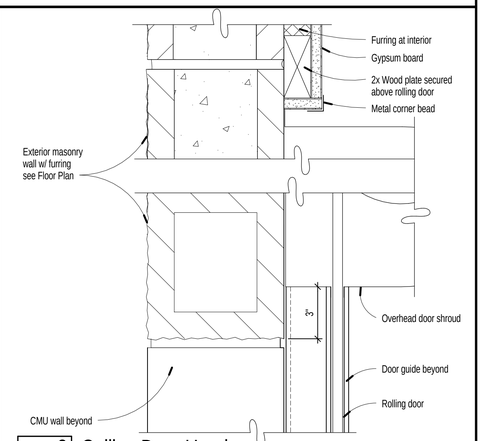
Glazing Legend

G4 1" Insulated glass.

Material and Type Legend

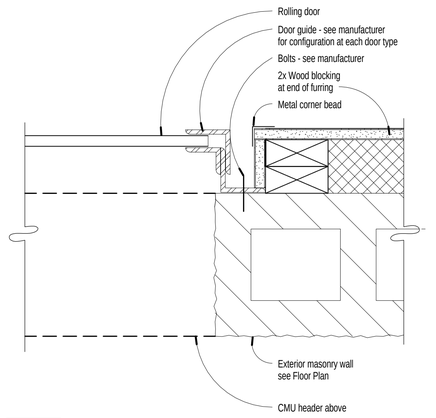
ST Steel Hollow Metal - painted
AL Anodized Aluminum - Black
CD Coiling Door - Paint

Note: All door hardware provided shall be compliant with Section 1008.1.8 and 1008.1.8.3 of the 2012 IBC. (See Specification)



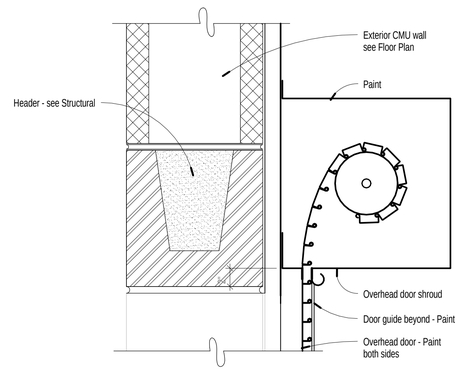
2 Coiling Door Head

3" = 1'-0"



3 Coiling Door Jamb

3" = 1'-0"



1 Overhead Door Head

3" = 1'-0"

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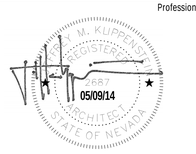
Professional Seal



Date	Revision

Consultant

H+K ARCHITECTS
5485 Reno Corporate Drive, Suite 100
Reno, Nevada 89511-2262
P 775+332+6640
F 775+332+6642
hkarchitects.com

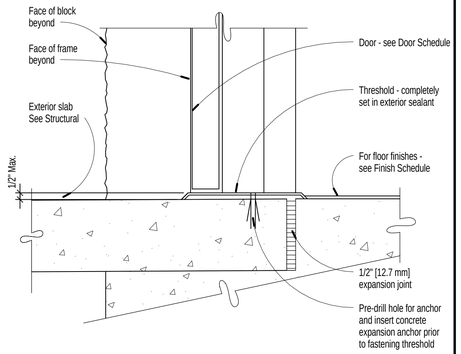
Golden Eagle Little League Fields
Restroom and Storage Building

City of Sparks
6200 Touchdown Drive
Sparks, Nevada 89436

Door Schedule Elevations and Details

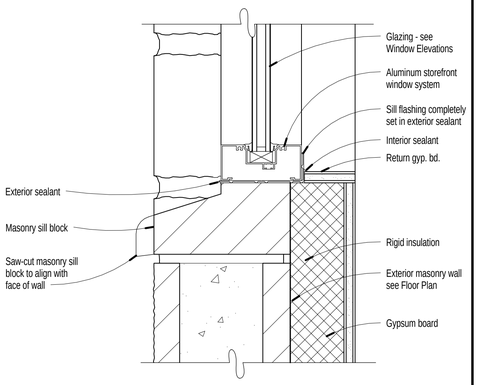
May 09, 2014
H+K Project No: 1408

A501



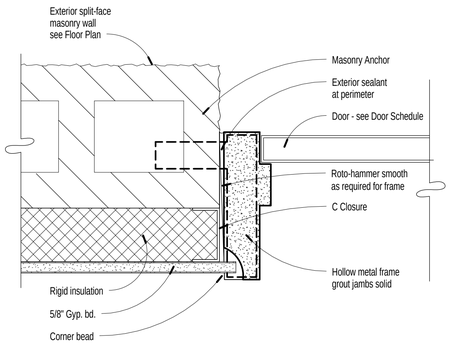
6 Door - Sill

3" = 1'-0"



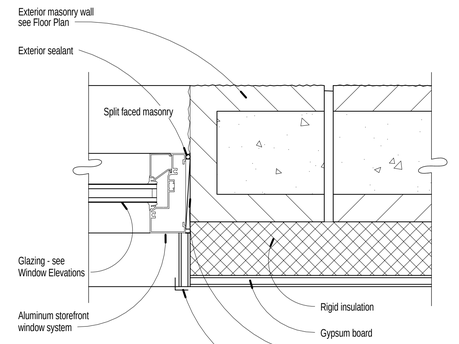
3 Window - Sill

3" = 1'-0"



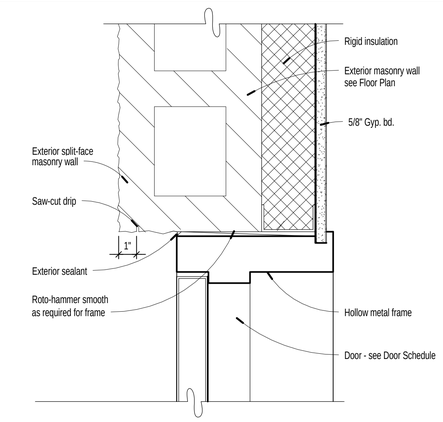
5 Door Jamb

3" = 1'-0"



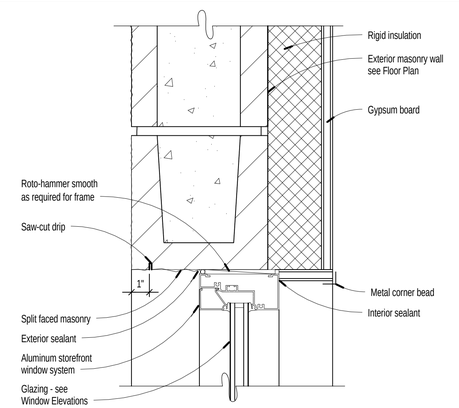
2 Window - Jamb

3" = 1'-0"



4 Door - Head

3" = 1'-0"



1 Window - Head

3" = 1'-0"

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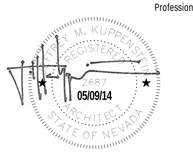
Professional Seal



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Door & Window Details

May 09, 2014
H+K Project No: 1408

A601

Material Schedule

Floor Materials:

F1 Stained Concrete
Mfg: Scofield
Color: Antique Amber (CS - 15)

Base Materials:

B1 Coved Tile Base
Mfg: Daltile
Quarry Base Tile - P-3665
Color: Gray
Size: 6"x6"
Grout: Color to match tile

Ceiling Materials:

C1 Gypsum Board attached to bottom of premanfactured truss cords - Paint
Paint color: P2

Wall Materials:

W1 Gypsum Board (Paint) w/ FRP
Paint color: P1
FRP Mfg: See specifications

Paint / Stain Color Schedule

P1 Paint Color #1
Color to match:
Sherwin Williams - Bagel (SW 6114)

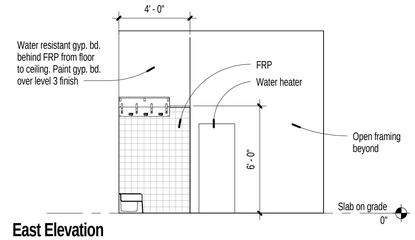
P2 Paint Color #2
Color to match:
Sherwin Williams - White Duck (SW 7010)

Roof Material

Roof Material
Corrugated Metal Roofing
Color to match : Corten 'AZP'

Finish Schedule

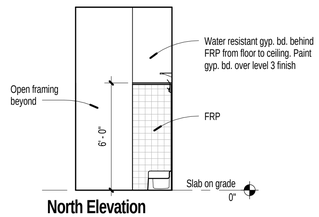
No.	Room Name	Floor	Base	Walls				Ceiling	Remarks
				North	East	South	West		
101	Storage	F1	-	W1	W1	W1	W1	C1	
102	Storage	F1	-	W1	W1	W1	W1	C1	
103	Men's Restroom	F1	B1	W1	W1	W1	W1	C1	
104	Chase Room	F1	-	W1	W1	W1	W1	C1	
105	Women's Restroom	F1	B1	W1	W1	W1	W1	C1	



East Elevation

10 Chase Room 104

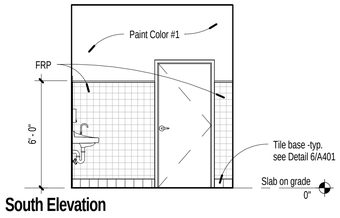
1/4" = 1'-0"



North Elevation

9 Chase Room 104

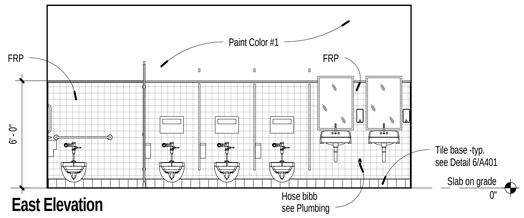
1/4" = 1'-0"



South Elevation

8 Womens Restroom 105

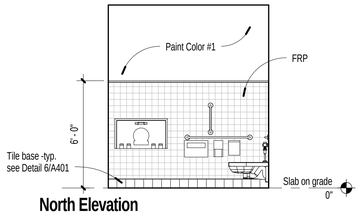
1/4" = 1'-0"



East Elevation

7 Womens Restroom 105

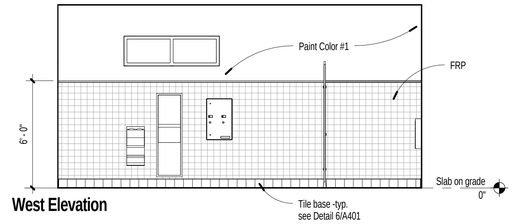
1/4" = 1'-0"



North Elevation

6 Womens Restroom 105

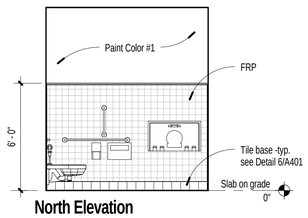
1/4" = 1'-0"



West Elevation

5 Womens Restroom 105

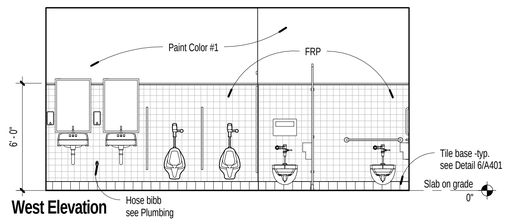
1/4" = 1'-0"



North Elevation

4 Mens Restroom 103

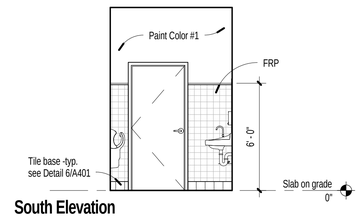
1/4" = 1'-0"



West Elevation

3 Mens Restroom 103

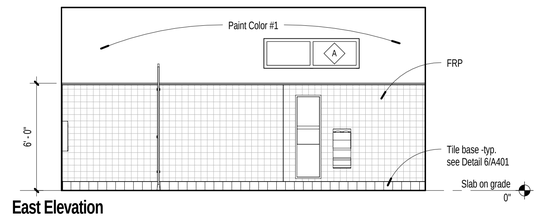
1/4" = 1'-0"



South Elevation

2 Mens Restroom 103

1/4" = 1'-0"



East Elevation

1 Mens Restroom 103

1/4" = 1'-0"

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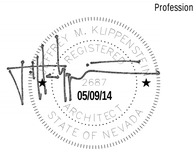
Professional Seal



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Room Finish Schedule and Interior Elevations

May 09, 2014
H+K Project No: 1408

A701

ABBREVIATIONS

A.B.	ANCHOR BOLT(S)	D.J.	DOWELED JOINT	HORIZ.(H)	HORIZONTAL	PL	PLATE
L	ANGLE	D.S.	DEFORMED SHANK	HDG	HOT DIP GALVANIZED	PLBG	PLUMBING
ARCH.	ARCHITECT(URAL)	DIA. OR ø	DIAMETER	HSB	HIGH STRENGTH BOLT	PLYWD	PLYWOOD
BM	BEAM	EXIST.(E)	EXISTING	INT.	INTERIOR	PSL	PARALLEL STRAND LUMBER
BRG	BEARING	E.F.	EACH FACE	JT	JOINT	P.T.	PRESSURE TREATED
BTWN	BETWEEN	ELEC.	ELECTRICAL	LLH	LONG LEG HORIZONTAL	REINF.	REINFORCEMENT
BEV.	BEVEL(ED)	EL.	ELEVATION (DATUM)	LLV	LONG LEG VERTICAL	REQ'D	REQUIRED
BLK(G)	BLOCK(ING)	ELEV.	ELEVATOR	LVL	LAMINATED VENEER LUMBER	R.O.	ROUGH OPENING
B.S.	BOTH SIDES	E.N.	EDGE NAILING	MAX.	MAXIMUM	SIM.	SIMILAR
BOT.	BOTTOM	E.S.	EACH SIDE	M.B.	MACHINE BOLTS	STD	STANDARD
BLDG	BUILDING	EA.	EACH	MIN.	MINIMUM	STIFF.	STIFFENER
C.B.	CARRIAGE BOLT(S)	E.W.	EACH WAY	MAS.	MASONRY	STL.	STEEL
CTR	CENTER	EXT.	EXTERIOR	MFR	MANUFACTURER	STRUCT.	STRUCTURAL
CL	CENTER LINE	FIN.	FINISH	M.O.	MASONRY OPENING	T&B	TOP & BOTTOM
C.J.	CONSTRUCTION JOINT	FLR	FLOOR	MECH.	MECHANICAL	T.O.	TOP OF
CCJ	CONTROL JOINT	FND	FOUNDATION	N.S.	NEAR SIDE	T.O.P.	TOP OF PLYWOOD
CMU	CONCRETE MASONRY UNIT	F.O.S.	FACE OF STUD(S)	NSA	NELSON STUD®ANCHOR	T.O.S.	TOP OF STEEL
CTSK	COUNTERSINK	F.S.	FAR SIDE	(N)	NEW	TYP.	TYPICAL
CLR	CLEAR	FTG	FOOTING	NTS	NOT TO SCALE	V.I.F.	VERIFY IN FIELD
CONT.	CONTINUOUS	GALV.	GALVANIZED	O.C.	ON CENTER	VERT.(V)	VERTICAL
COL.	COLUMN	GLB	GLUED LAMINATED BEAM	O.H.	OPPOSITE HAND	UNO	UNLESS NOTED OTHERWISE
CONC.	CONCRETE	HDR	HEADER	OPNG	OPENING	WWF	WELDED WIRE FABRIC
CONN.	CONNECTION			OSB	ORIENTED STRAND BOARD	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 ARCHITECT IMMEDIATELY.
3. THE CONTRACTOR SHALL VERIFY DIMENSIONS PRIOR TO CONSTRUCTION.
4. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AND NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES.

BASIS OF DESIGN

CODE REFERENCE - 2012 INTERNATIONAL BUILDING CODE
RISK CATEGORY II- RESTROOM/STORAGE BUILDING

SNOW LOADS	
Elevation	4,600ft
Ground snow load, Pg	30psf
Ce	0.90
Ct	1.20
Is	1.00
Flat Roof Snow Load, Pf	23psf

WIND LOADS	
Basic Wind Speed, Vult	130mph (Risk Category II)
Exposure	C
Enclosure Classification	Enclosed

SOILS	
Soils Engineer Report # Report date	Stantec Consulting, Inc. 180550861 May, 2006
Maximum Allowable Soil Bearing	2,000psf w/ 1/3 Increase for Wind and Seismic
Coefficient of Friction	0.25
Frost Depth	24"

SEISMIC LOADS	
Site Class	D
Ie	1.00
Ss	1.500
S1	0.500
Sds	1.00
Sd1	0.50
Seismic Design Category	D
Analysis Procedure	Equivalent Lateral Force Procedure
Basic Seismic Force Resisting System(s)	Special Reinforced Masonry Shearwalls (R=5)
Base Shear, V=CsW	0.20W

PROJECT TITLE

STRUCTURAL DRAWINGS
FOR

GOLDEN EAGLE LITTLE LEAGUE FIELDS EXPANSION
RESTROOM/STORAGE BUILDING

CITY OF SPARKS

6200 TOUCHDOWN DRIVE
SPARKS, NEVADA 89436

INDEX TO DRAWINGS

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 2012 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. 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. 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.

H. 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. LOCATION OF TEST HOLES AND LOGS THEREOF ARE SHOWN IN THE SOIL REPORT, A COPY OF WHICH IS ON FILE IN THE ARCHITECTS OFFICE. THE SOILS REPORT IS PROVIDED FOR REFERENCE ONLY AND IS NOT A PART OF THE CONTRACT DOCUMENTS.

B. THE SOILS ENGINEER SHALL REVIEW ALL SITEWORK AND FOOTING EXCAVATIONS BEFORE ANY CONCRETE IS CAST AND SUBMIT A LETTER OF COMPLIANCE TO THE ARCHITECT INDICATING THAT ALL WORK IS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

C. THE SOILS ENGINEER SHALL REVIEW ALL MATERIALS PRIOR TO PLACEMENT, OBSERVE PLACEMENT OPERATIONS AND SUBMIT A LETTER OF COMPLIANCE TO THE ARCHITECT INDICATING THAT ALL WORK IS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

D. 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.

E. EXCAVATE AND OVER-EXCAVATE AS NECESSARY TO PROPERLY CONSTRUCT IMPROVEMENTS AND TO PROVIDE A MINIMUM OF 2'-0" OF ENGINEERED FILL BELOW IMPROVEMENTS. OVER-EXCAVATION AND PLACEMENT OF ENGINEERED FILL SHALL EXTEND A MINIMUM OF 2'-0" BEYOND ALL EDGES OF FOOTINGS.

F. SCARIFY, MOISTURE CONDITION, AND RE-COMPACT THE TOP 12" OF NATIVE 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.

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

H. FOOTINGS MAY BE POURED IN NEAT EXCAVATION WHERE POSSIBLE, PROVIDED AN EXTRA 1" WIDTH OF FOOTING IS PROVIDED ON EACH SIDE AND WRITTEN APPROVAL IS GIVEN BY THE ARCHITECT.

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

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

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

III. CONCRETE

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

B. CONCRETE AT FOUNDATIONS OR WALLS 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 3500 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%, AND SHALL CONTAIN 1.5 LB/CY OF FIBERMESH STEALTH POLYPROPYLENE FIBERS OR APPROVED EQUAL.

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. 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 5000 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).

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 WIRE 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. 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. MASONRY

A. ALL MASONRY WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 530.1, MINIMUM DESIGN STRENGTH F'm = 1500 PSI.

B. CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90, SHALL BE MADE WITH LIGHTWEIGHT AGGREGATE WITH A MINIMUM COMPRESSIVE STRENGTH OF 1900 PSI AT 28 DAYS. MASONRY UNITS SHALL BE OF THE SIZE, SHAPE, COLOR, TEXTURE AND LAYOUT AS DIRECTED AND APPROVED BY THE ARCHITECT. USE OPEN END UNITS WHEREVER POSSIBLE. USE BOND BEAM UNITS AT HORIZONTAL REINFORCING.

C. MORTAR SHALL CONFORM TO ASTM C270, TYPE M WITH A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS. MORTAR COLOR SHALL BE AS DIRECTED AND APPROVED BY THE ARCHITECT.

D. GROUT SHALL CONFORM TO ASTM C476 WITH A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS. GROUT SHALL BE COARSE GROUT IN WALLS 8" AND LARGER AND FINE GROUT IN 6" WALLS OR WHERE CONDITIONS WARRANT.

E. REINFORCING SHALL BE DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60. ALL REINFORCING TO BE WELDED 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.

F. HORIZONTAL AND VERTICAL REINFORCING BARS SHALL BE DETAILED AND POSITIONED AS SHOWN ON THE DRAWINGS.

G. LAY BLOCK IN RUNNING BOND IN 3/8" FULL SHOVED HEAD AND BED JOINTS AND TOOL ALL JOINTS AS CONCAVE WEATHER RESISTANT JOINTS UNLESS DIRECTED OTHERWISE BY THE ARCHITECT. CONTRACTOR TO COORDINATE WITH ARCHITECTURAL DRAWINGS FOR ALL MASONRY TYPES, DIMENSIONS AND LAYUP PATTERNS PRIOR TO CONSTRUCTION.

H. ALL CELLS SHALL BE GROUTED SOLID IN 8'-0" MAXIMUM LIFTS. SPLICES OF REINFORCEMENT SHALL BE LOCATED SUCH THAT THE FULL SPLICE LENGTH IS WITHIN A LIFT AND IS OBSERVABLE AND VERIFIABLE PRIOR TO POURING GROUT. CUT CLEANOUT OPENINGS SHALL BE PROVIDED AT THE BOTTOM OF EACH LIFT FOR CLEANING AND INSPECTION. AT THE CONTRACTOR'S OPTION, LIFTS MAY BE REDUCED TO 5'-0" MAXIMUM WITH CLEANOUTS OMITTED. ALL GROUT SHALL BE VIBRATED AND REVIBRATED USING INTERNAL MECHANICAL VIBRATORS. KEY ALL GROUT POURS BY HOLDING TOP OF GROUT 1 1/2" BELOW TOP OF BLOCK.

I. PROTECT MASONRY WORK AS REQUIRED BY ACI 530.1 FOR COLD WEATHER, HOT WEATHER AND MOISTURE.

J. CERTIFICATES FOR CONCRETE MASONRY UNITS AND MIX DESIGNS FOR MORTAR AND GROUT SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO PLACEMENT OF ANY MASONRY. SHOP DRAWINGS INCLUDING ELEVATIONS OF EACH WALL WITH REBAR, ALL DIMENSIONED OPENINGS AND THEIR LOCATIONS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO ANY FABRICATION. OPENINGS SHALL INCLUDE BUT NOT BE LIMITED TO MECHANICAL AND PLUMBING LOCATIONS.

V. WOOD FRAMING

A. FRAMING LUMBER USED IN FLEXURE SHALL BE DOUGLAS FIR NO. 2 FOR 2X10 AND SMALLER AND DOUGLAS FIR NO. 1 FOR MEMBERS LARGER THAN 2X10. STRUCTURAL WALL STUDS SHALL BE DOUGLAS FIR NO. 2. WOOD POSTS SHALL BE DOUGLAS FIR NO. 1.

B. PLATES, BRIDGING, AND BLOCKING SHALL BE DOUGLAS FIR NO. 2 MINIMUM.

C. PLATES ATTACHED TO CONCRETE OR MASONRY AT GRADE SHALL BE PRESSURE TREATED AND CONNECTORS FOR PRESSURE TREATED LUMBER SHALL BE GALVANIZED OR STAINLESS.

D. FRAMING LUMBER MOISTURE CONTENT AT THE TIME OF DELIVERY TO THE JOB SHALL NOT EXCEED 19% BY WEIGHT.

E. SHEATHING SHALL BE APA APPROVED PLYWOOD OR OSB OF THE GRADES AND SIZES SHOWN ON THE DRAWINGS. OSB SHALL NOT BE USED IN CONDITIONS WITH EXTERIOR EXPOSURE.

F. NAILING SHALL BE IN ACCORDANCE WITH 2012 IBC TABLE 2304.9.1 FASTENING SCHEDULE WHERE NOT OTHERWISE SHOWN ON THE DRAWINGS.

G. BOLTS SHALL CONFORM TO ASTM A307 WITH STANDARD CUT WASHERS WHERE HEAD OR NUT BEARS ON WOOD.

H. FRAMING ANCHORS, STRAPS, CONNECTIONS, HANGERS, ETC., SHALL BE SIMPSON STRONG TIE, SILVER OR EQUAL HAVING ICC APPROVAL; PREDRILL NAIL HOLES AS REQUIRED TO AVOID SPLITTING. ALL HANGERS AND CONNECTIONS SHALL BE NAILED FOR MAXIMUM CAPACITY.

VI. METAL PLATE CONNECTED WOOD TRUSSES

A. FACTORY FABRICATED METAL PLATE CONNECTED WOOD TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH ANSI / TPI 1 FOR THE FOLLOWING LOADS. SHOP DRAWINGS BEARING THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NEVADA SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO ANY FABRICATION. SHOP DRAWINGS SHALL ALSO INCLUDE THE MANUFACTURER'S INSTALLATION INSTRUCTIONS ON LATERAL BRACING AND ALL REQUIRED HANGERS.

B. DESIGN TRUSSES FOR THE FOLLOWING LOADS: DEAD LOAD = 16 PSF; NO MORE THAN 10 PSF TOTAL DEAD LOAD SHALL BE USED TO RESIST WIND UPLIFT LOADING; LIVE LOAD = 23 PSF (SNOW), 10 PSF BOTTOM CHORD (NON-CONCURRENT WITH SNOW). SEE ROOF FRAMING PLANS FOR SPECIAL LOADS. TRUSSES SHALL BE DESIGNED FOR COMPONENT AND CLADDING WIND FORCES; SEE BASIS OF DESIGN FOR ADDITIONAL INFORMATION. NO STRESS INCREASES SHALL BE ALLOWED FOR REPETITIVE MEMBERS.

C. LIMIT TRUSS DEFLECTIONS TO L/360 FOR LIVE LOADS AND L/240 FOR TOTAL LOADS.

D. SEE DRAWINGS FOR TRUSS CONFIGURATIONS. DIAGONAL WEB MEMBERS MAY BE LOCATED PER THE TRUSS FABRICATOR'S REQUIREMENTS, HOWEVER, WHERE DIFFERENT TRUSS TYPES ARE LOCATED IN A SINGLE RUN, WEB MEMBERS AND PANEL POINTS SHALL LINE UP SO THAT A CLEAR PASSAGE IS MADE AVAILABLE FOR MECHANICAL DUCT WORK, ETC.

E. MINIMUM MEMBER SIZES SHALL BE 2X6 TOP CHORDS AND 2X4 FOR ALL OTHER MEMBERS. USE DOUG-FIR LARCH FOR TOP CHORD MEMBERS. USE DOUG-FIR LARCH OR HEM-FIR LUMBER OR BETTER FOR OTHER MEMBERS. USE "S-DRY" OR "KILN-DRY" LUMBER WITH 19% OR LESS MOISTURE CONTENT WHEN FABRICATED.

F. TRUSSES SHALL BE MARKED BY THE FABRICATOR AT LOCATIONS REQUIRING CONTINUOUS BRACING. CROSS BRACING SHALL BE FURNISHED AND INSTALLED AS INDICATED BY THE TRUSS MANUFACTURER AND AS SHOWN ON THESE DRAWINGS.

G. CONNECTORS BETWEEN TRUSS ELEMENTS ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER.

H. CAMBER TRUSSES FOR TWO TIMES THE DEAD LOAD DEFLECTION.

VII. PERFORMANCE SPECIFICATION (DEFERRED SUBMITTAL) ITEMS

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

1. METAL PLATE CONNECTED WOOD TRUSSES
2. SUPPORT, BRACING AND ANCHORAGE OF MECHANICAL, ELECTRICAL, SPRINKLER, OR OTHER PIPING SYSTEMS FOR WIND OR SEISMIC LOADS IN ACCORDANCE WITH ASCE 7-10, CHAPTER 6 (WIND) AND CHAPTER 13 (SEISMIC).

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 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.

VIII. SPECIAL INSPECTION AND MATERIAL TESTING

A. SPECIAL INSPECTION AND ASSOCIATED MATERIALS TESTING SHALL BE PERFORMED 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, OWNER AND BUILDING OFFICIAL. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN IF UNCORRECTED, TO THE ARCHITECT, OWNER AND BUILDING OFFICIAL. AT THE CONCLUSION OF WORK, THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT TO THE ARCHITECT, OWNER AND BUILDING OFFICIAL 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 2012 IBC CHAPTER 17 SHALL BE REQUIRED FOR THE FOLLOWING STRUCTURAL ITEMS:

1. CONCRETE CONSTRUCTION IN ACCORDANCE WITH 2012 IBC TABLE 1705.3.
2. MASONRY CONSTRUCTION IN ACCORDANCE WITH ACI 530 TABLE 1.18.2 – LEVEL B QUALITY ASSURANCE.
3. SOILS IN ACCORDANCE WITH 2012 IBC TABLE 1705.6.

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

IX. 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.

Professional Seal

PROFESSIONAL ENGINEER - STATE OF NEVADA
CHRISTOPHER M. ROPER
CIVIL & STRUCTURAL
No. 15051
EXP. 12/31/15 — 4/23/14

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Golden Eagle Little League Fields Expansion
Restroom/Storage Building

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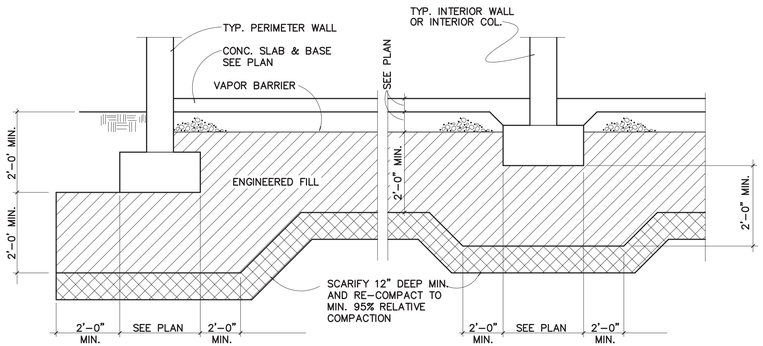
Project Data
Structural Cover Sheet
General Notes

May 1, 2014
H+K Project No.:1408

S001

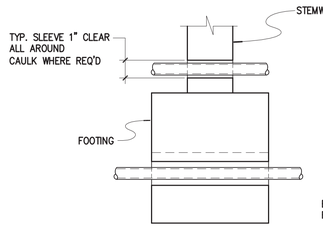
File: Mod:Aug April 22, 2020 6:00 PM



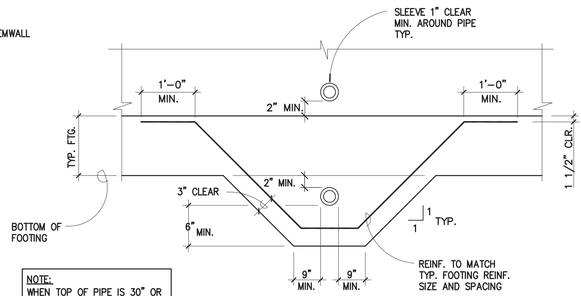
ENGINEERED FILL

N.T.S.

1 S101



SECTION



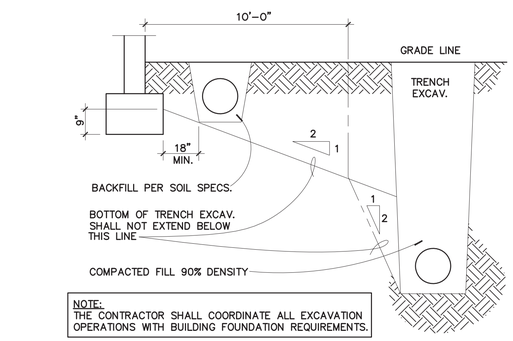
NOTE:
WHEN TOP OF PIPE IS 30" OR MORE BELOW BOTTOM OF FOOTING ADDNL REINF. IS NOT REQ'D.

ELEVATION

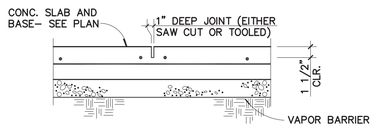
TYPICAL PIPE ENTRANCE

N.T.S.

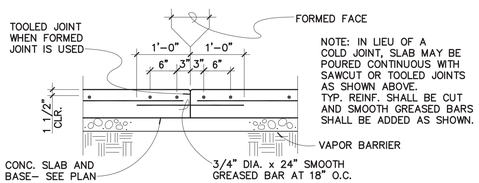
2 S101



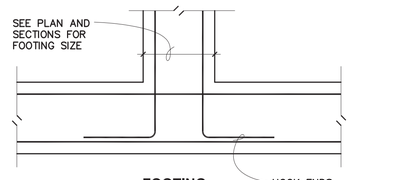
NOTE:
THE CONTRACTOR SHALL COORDINATE ALL EXCAVATION OPERATIONS WITH BUILDING FOUNDATION REQUIREMENTS.



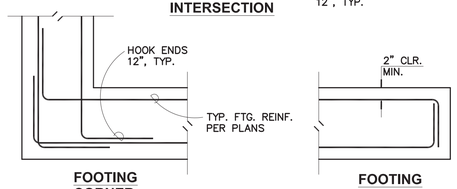
CONTROL JOINT (C.J.) AT 10'-0" O.C. MAX.



DOWELED JOINT (D.J.) AT 20'-0" O.C. MAX.

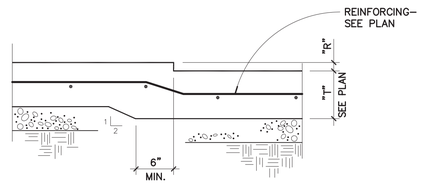


FOOTING INTERSECTION



FOOTING CORNER

FOOTING END

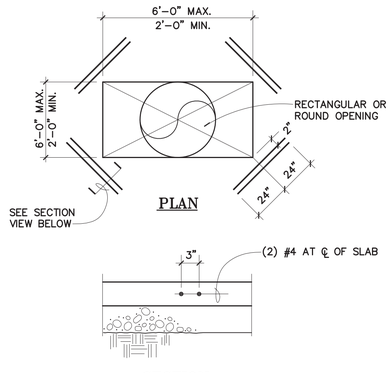


NOTE:
THIS CONDITION OCCURS IF "R" (RECESS DEPTH) IS LESS THAN OR EQUAL TO 2".

EXCAVATION PARALLEL TO FOOTING

N.T.S.

3 S101

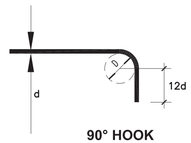


SECTION

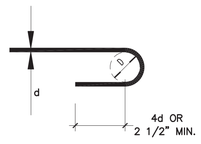
TYPICAL SLAB JOINTS

N.T.S.

4 S101



90° HOOK



180° HOOK

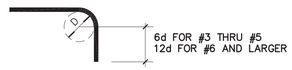
D = 6d FOR #3 TO #8
D = 8d FOR #9 TO #11
D = 10d FOR #14 AND #18

NOTES:
1. ALL BENDS SHALL BE MADE COLD.
2. #14 AND #18 BARS SHALL BE BEND TESTED AND LAB APPROVED PRIOR TO BENDING.

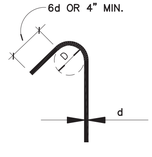
TYP. REINF. LAP IN FOOTING

N.T.S.

5 S101

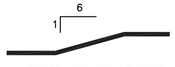


90° HOOK
TIE OR STIRRUP



135° HOOK

D = 4d FOR #5 AND SMALLER
D = 6d FOR #6 TO #8
D = 8d FOR #9 TO #11
D = 10d FOR #14 AND #18



MAX. OFFSET BEND

RECESSED SLAB-ON-GRADE

N.T.S.

6 S101

OPENING IN SLAB-ON-GRADE

N.T.S.

7 S101

HOOKS AND BENDS FOR PRINCIPAL REINFORCING

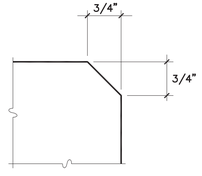
N.T.S.

8 S101

TIE & STIRRUP HOOKS

N.T.S.

9 S101



NOTE: CHAMFER ALL EXPOSED CORNERS OF CONCRETE WALLS, COLUMNS, BEAMS, ETC., EXCEPT WHERE DETAILED OTHERWISE.

TYPICAL CONCRETE CHAMFER

N.T.S.

10 S101

Professional Seal

PROFESSIONAL ENGINEER–STATE OF NEVADA
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Golden Eagle Little League Fields Expansion Restroom/Storage Building

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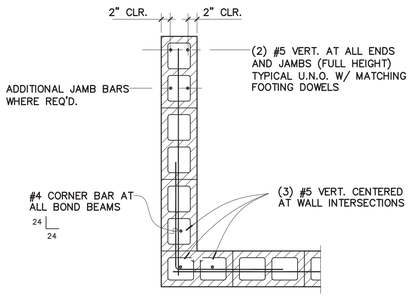
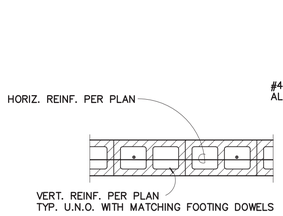
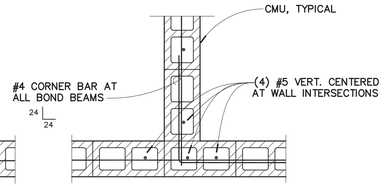
Project Data
Typical Details

May 1, 2014
H+K Project No.:1408

S101







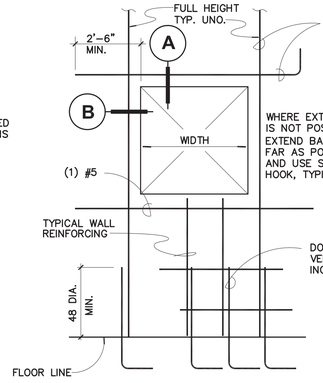
NOTES:

1) GROUT ALL CELLS SOLID.
2) SEE WALL SECTIONS AND DETAILS FOR SPECIAL REINFORCING.
3) ALL VERTICAL REINFORCING SHALL BE FULL HEIGHT TYPICALLY UNLESS NOTED OTHERWISE, WITH SPLICES AS REQUIRED.
4) PROVIDE LEVEL 1 SPECIAL INSPECTION

TYPICAL 8" CMU WALL REINFORCING

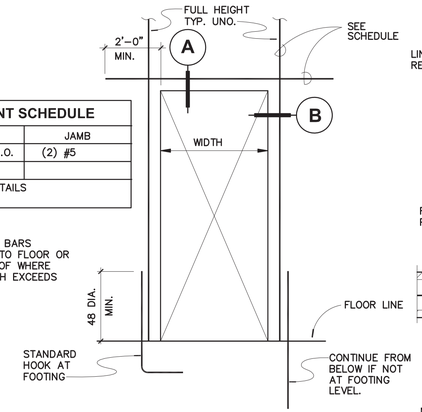
N.T.S

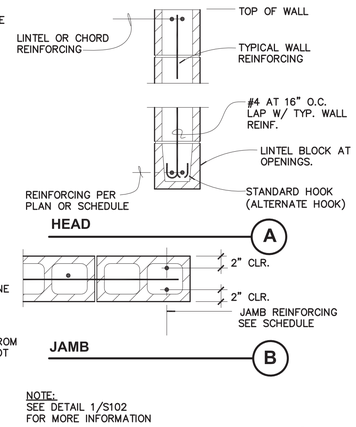
1 S102



REINFORCEMENT SCHEDULE		
WIDTH	HEAD	JAMB
0'-0" to 6'-0"	(2) #5 U.N.O.	(2) #5
SEE PLAN AND SPECIFIC DETAILS FOR ADDITIONAL NOTES		

NOTE:
EXTEND JAMB BARS FROM FLOOR TO FLOOR OR FLOOR TO ROOF WHERE OPENING WIDTH EXCEEDS 2'-0"





NOTE:
SEE DETAIL 1/S102
FOR MORE INFORMATION

HEAD AND JAMB REINFORCING AT 8" CMU WALL OPENINGS U.N.O.

N.T.S.

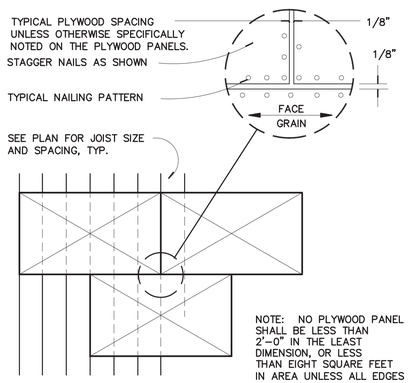
2 S102

IN ALL CASES, THE WALL REINFORCEMENT MUST TAKE PRECEDENCE OVER THE LOCATION OF THE CONDUITS, AND ADEQUATE ROOM IN THE CMU CELLS NEEDS TO BE MAINTAINED TO ALLOW FOR THE GROUT TO FLOW PROPERLY. IN GENERAL, THE FOLLOWING NOTES NEED TO BE FOLLOWED:

1. NO VERTICAL ELECTRICAL CONDUIT IS TO BE PLACED IN THE FIRST 8" OF WALL JAMB AT THE WALL OPENINGS, WHICH SHALL BE RESERVED FOR JAMB REINFORCEMENT ONLY. PLACE VERTICAL CONDUITS IN NEXT ADJACENT CELL.
2. WHERE POSSIBLE, VERTICAL CONDUIT WILL BE PLACED IN NON REINFORCED CELLS.
3. NO MORE THAN ONE 3/4" DIA. VERT. CONDUIT WILL BE PLACED IN A REINFORCED CELL AND:
   a. THE CONDUIT IS TO BE LOCATED SUCH THAT GROUT WILL BE ABLE TO FLOW COMPLETELY AROUND THE REINFORCING BARS.
   b. NO MORE THAN TWO 3/4" DIA. VERTICAL CONDUITS WILL BE PLACED IN A NON-REINFORCED CELL UNLESS OTHER STRUCTURAL PROVISIONS ARE MADE.
4. IN HORIZONTAL BOND BEAMS, THE REBAR IS TO TAKE PRECEDENCE WHEREVER POSSIBLE, THE MASON SHALL PROVIDE ADDITIONAL ROWS OF BOND BEAM UNITS FOR HORIZONTAL CONDUITS TO RUN. IN NO CASE SHALL HORIZONTAL CONDUIT BE PLACED IN A BOND BEAM HAVING TWO HORIZONTAL BARS. ONLY IN CASES WHERE NO ALTERNATIVE IS AVAILABLE SHALL ONE CONDUIT BE PLACED IN THE SAME BOND BEAM AS ONE HORIZONTAL REBAR. NO MORE THAN TWO 3/4" DIA. MAX. SIZE CONDUITS BE PLACED IN A SINGLE BOND BEAM, PROVIDING THERE IS NO HORIZONTAL REBAR IN BOND BEAM.

CONDUITS IN CMU

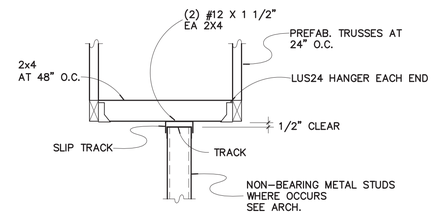
3 S102



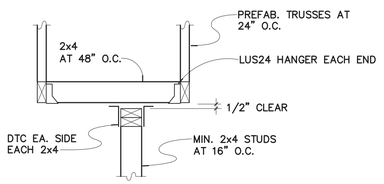
TYPICAL PLYWOOD SPACING & NAILING

N.T.S.

4 S102



AT METAL STUDS



AT WOOD STUDS

NOTE: WHERE WALLS ARE PERPENDICULAR TO TRUSSES CONNECT PARTITIONS TO EVERY OTHER TRUSS WITH HTC4.

NON-BEARING PARTITION

N.T.S.

5 S102

Professional Seal

PROFESSIONAL ENGINEER - STATE OF NEVADA
CHRISTOPHER M. ROPER
CIVIL & STRUCTURAL
No. 15051
EXP. 12/31/15
4/23/14

Date	Revision

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Golden Eagle Little League Fields Expansion Restroom/Storage Building

City of Sparks
6200 Touchdown Drive
Sparks, Nevada 89436

Project Data
Typical Details

May 1, 2014
H+K Project No.:1408

S102

Title block.dwg April 22, 2010 6:00 PM

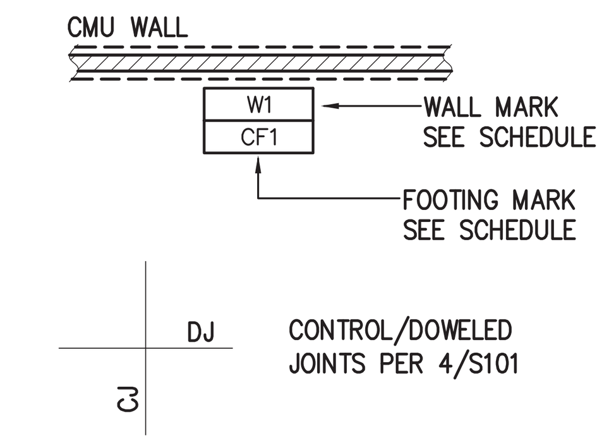
MASONRY WALL SCHEDULE

MARK	CMU THICKNESS	VERT. REINF.	HORIZ. REINF.	REMARKS
W1	8"	#5 @ 24" O.C.	#4 @ 24" O.C.	1. ALL VERT. REINF. TO BE CENTERED IN WALL. 2. GROUT ALL CELLS SOLID. 3. TYPICAL WALL.

CONTINUOUS FOOTING SCHEDULE

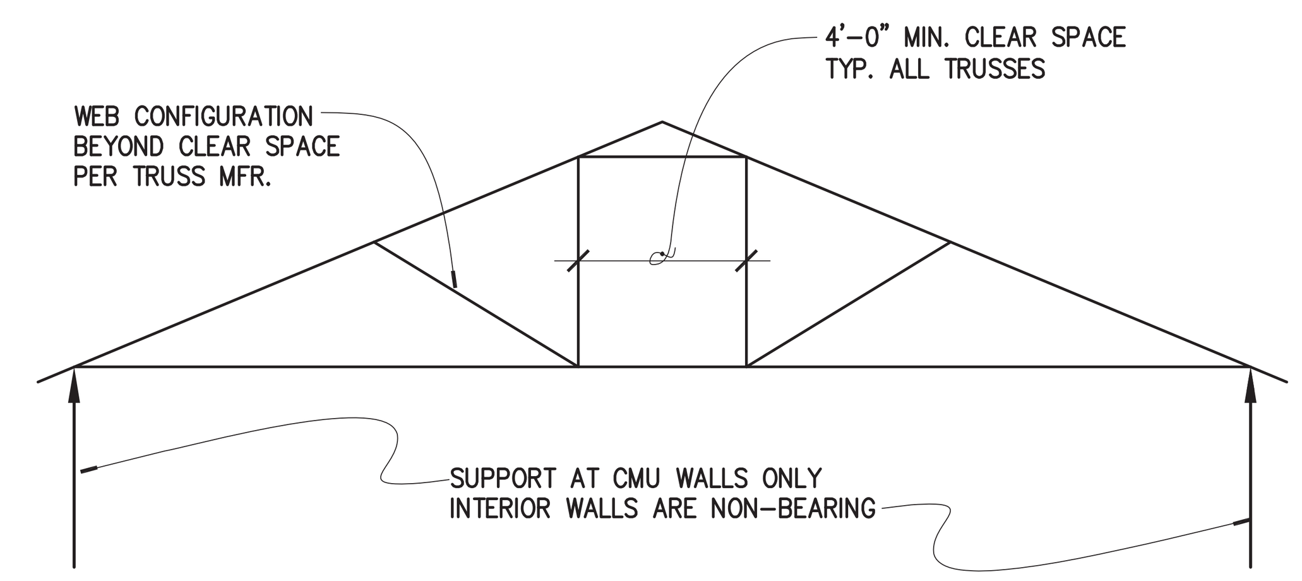
MARK	SIZE (WxD)	REINFORCEMENT	REMARKS
CF1	1'-4" x 12"	(3) #4 CONT.	TYPICAL FOOTING

LEGEND



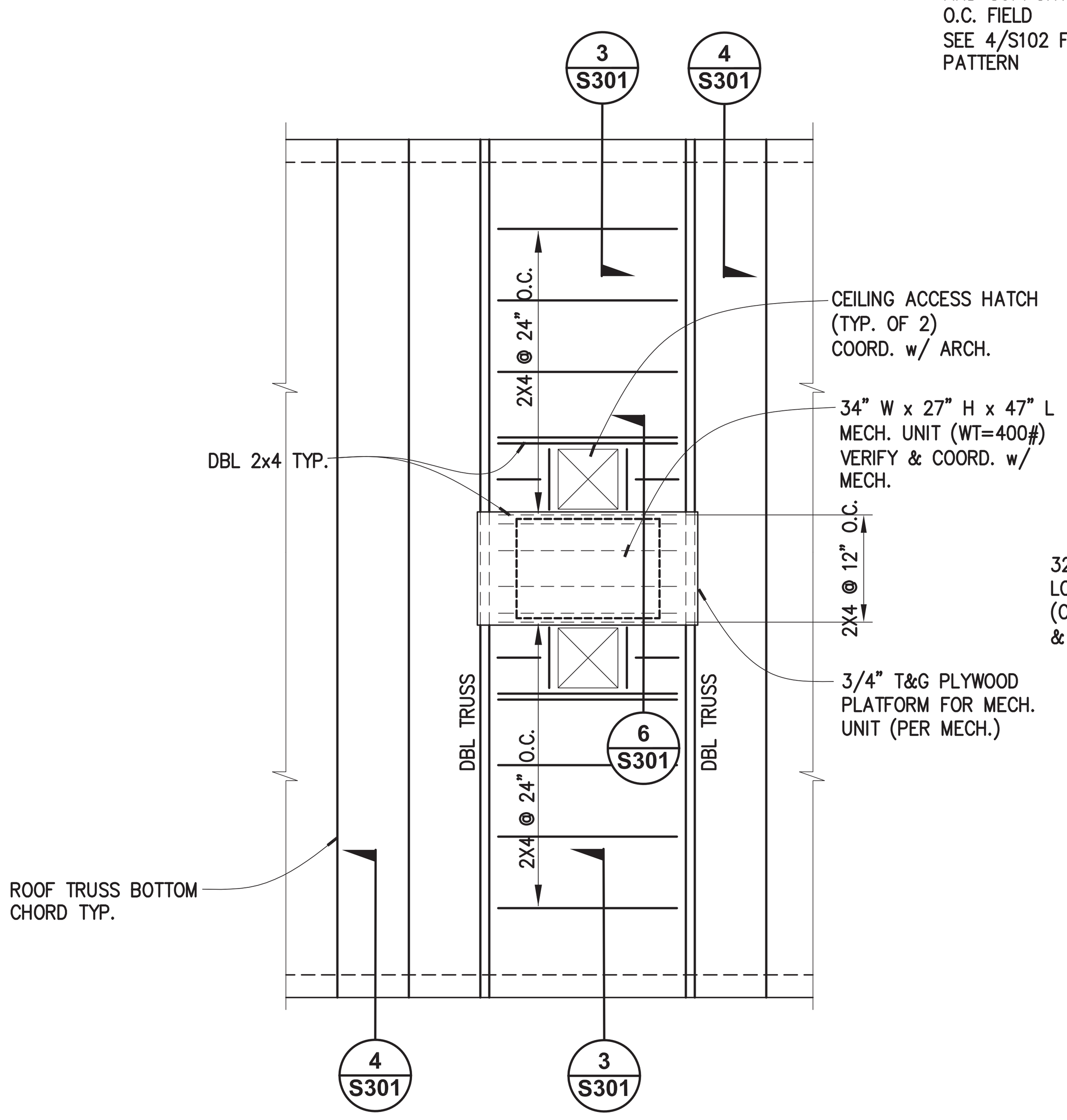
NOTES

1. SEE 1/S101 FOR ENGINEERED FILL REQUIREMENTS.
2. SEE ARCHITECTURAL DRAWINGS FOR ALL CMU COURSING AND LAYOUT.



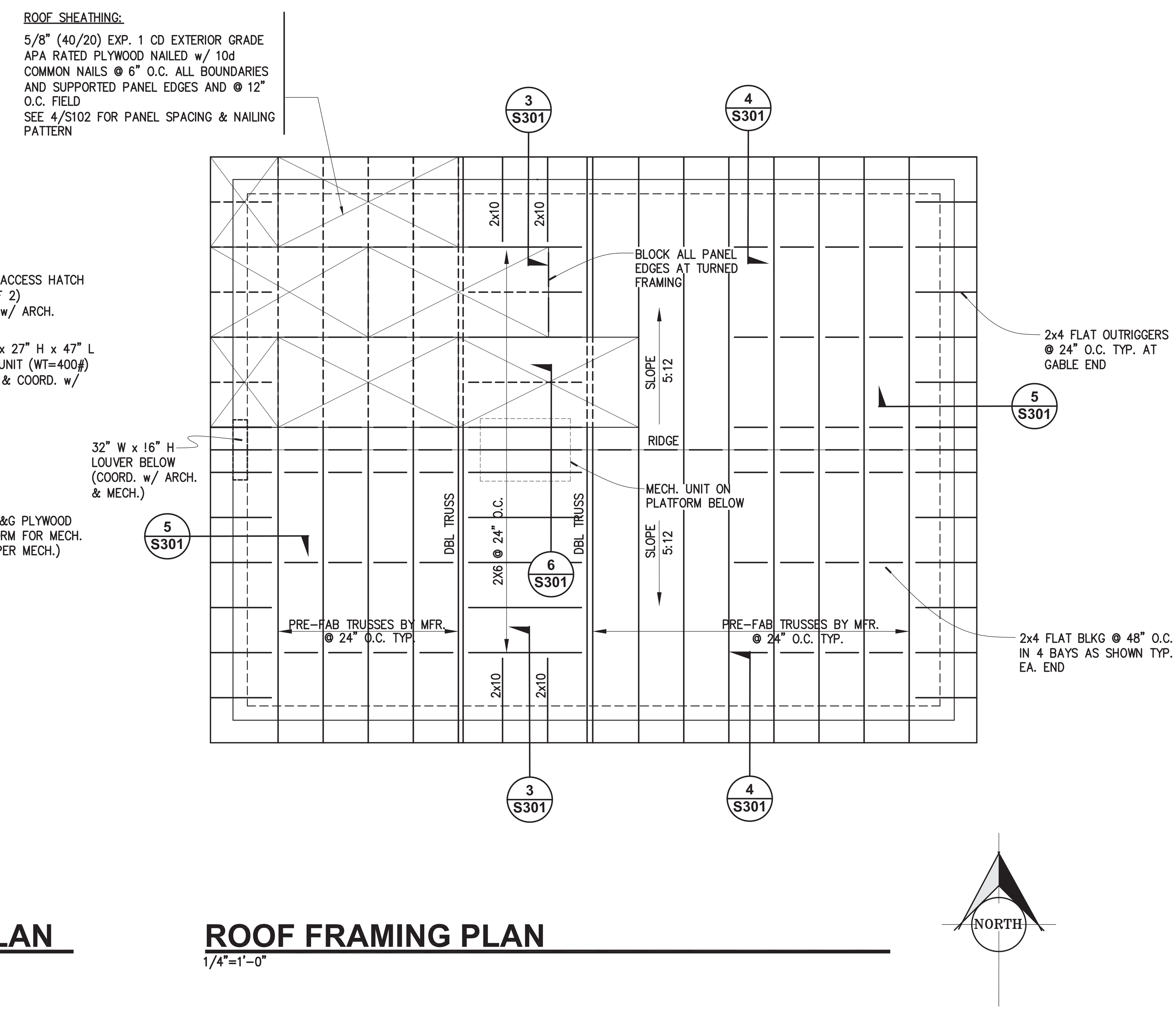
TRUSS PROFILE

N.T.S.



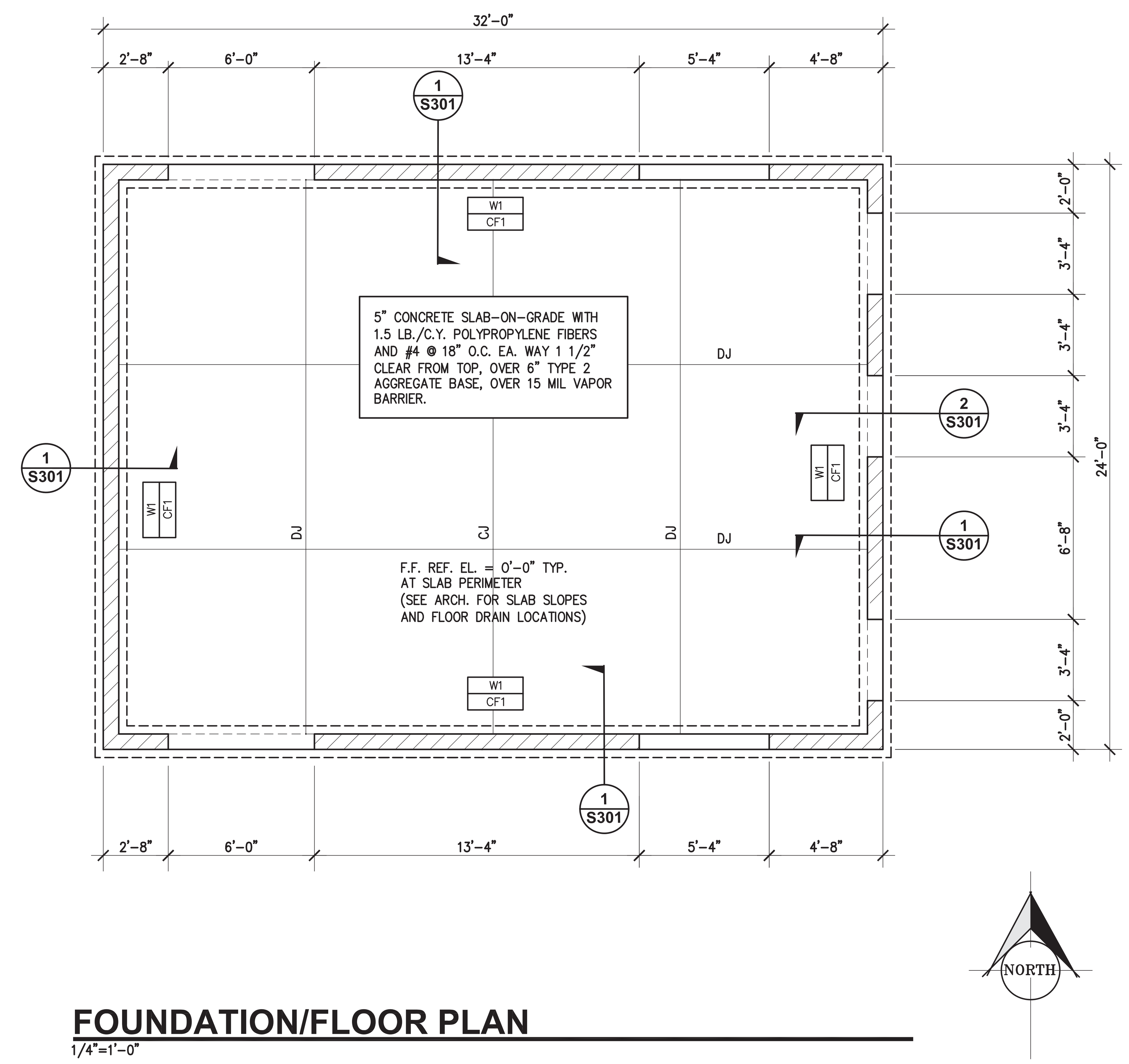
CEILING PARTIAL FRAMING PLAN

1/4"=1'-0"



ROOF FRAMING PLAN

1/4"=1'-0"



FOUNDATION/FLOOR PLAN

1/4"=1'-0"

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Professional Seal: PROFESSIONAL ENGINEER - STATE OF NEVADA, CHRISTOPHER M. ROPER, CIVIL & STRUCTURAL, No. 15052, EXP 12/31/15, 4/23/14

Date	Revision

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Golden Eagle Little League Fields Expansion
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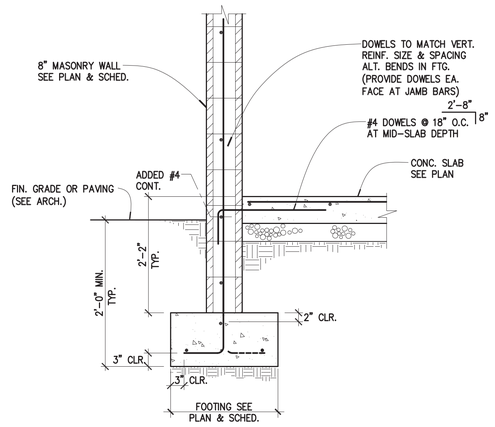
Project Data
Foundation/Floor Plan
Roof framing Plan

May 1, 2014
H+K Project No.:1408

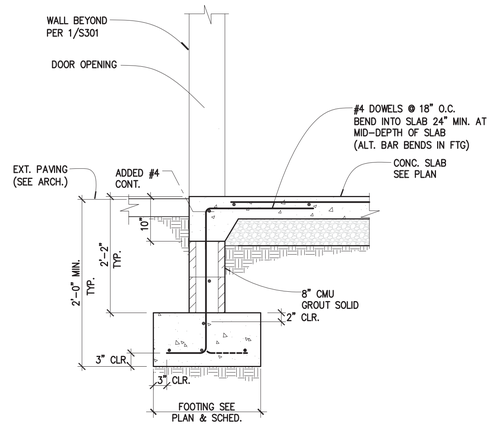
S201



EXTERIOR WALL

3/4" = 1'-0"

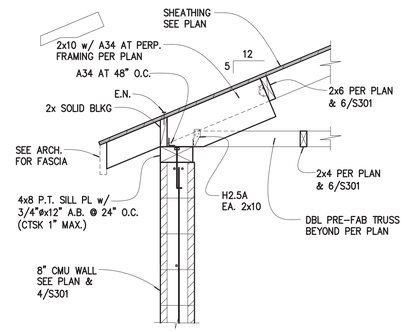
1 S301



EXTERIOR WALL DOOR OPENING

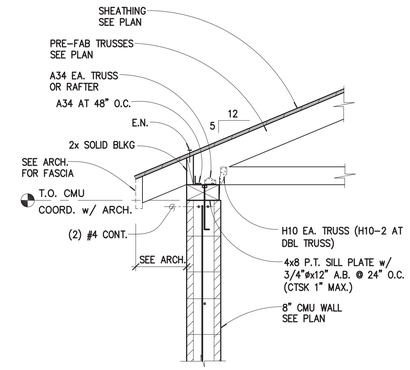
3/4" = 1'-0"

2 S301



EAVE AT TURNED FRAMING

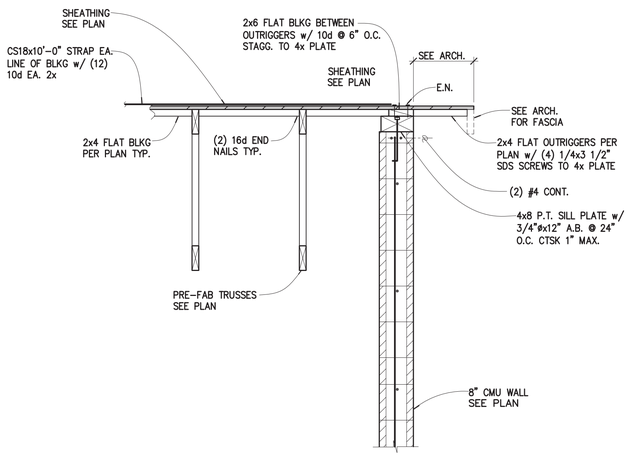
3 S301



EAVE CONN. TO WALL

3/4" = 1'-0"

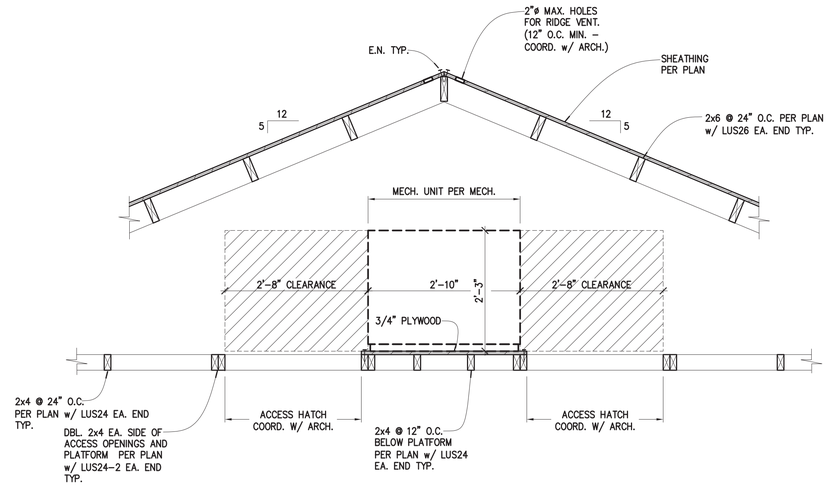
4 S301



GABLE CONN. TO WALL

3/4" = 1'-0"

5 S301



ROOF SECTION AT MECHANICAL PLATFORM

3/4" = 1'-0"

6 S301

NOTE:
SEE ARCHITECTURAL DRAWINGS FOR ALL CMU COURSING AND LAYOUT.

Professional Seal

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Project Data
Details

May 1, 2014
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S301

PLUMBING FIXTURES

WC-1 WATER CLOSET
AMERICAN STANDARD MODEL #2257.001 "AFWALL" 1.6 GPF WALL HUNG WATER CLOSET. FURNISH WITH SLOAN ROYAL MODEL #111 ES-S SENSOR OPERATED HARD WIRED FLUSH VALVE WITH TRANSFORMER AND TRAP PRIMER AS REQUIRED. CHURCH SEAT #2955SC AND ZURN CARRIER. LOCATE HARD-WIRED TRANSFORMER IN PLUMBING CHASE.

U-1 URINAL
AMERICAN STANDARD MODEL #6590.001 "WASHBROOK" WATER SAVER 1.0 GPF URINAL FURNISH WITH SLOAN ROYAL MODEL #186-1-ES-S SENSOR OPERATED HARD WIRED FLUSH VALVE WITH TRANSFORMER #EL-154. LOCATE HARD-WIRED TRANSFORMER IN PLUMBING CHASE.

L-1 LAVATORY
AMERICAN STANDARD MODEL #0124.024 "COMRADE" VITREOUS CHINA WALL HUNG LAVATORY WITH SLOAN OPTIMA MODEL #ETF-600 SENSOR OPERATED FAUCET. GRID STRAINER, 17 GAUGE CHROME PLATED P-TRAP, SPEEDWAY FITTINGS, AND EL-154 TRANSFORMER. LOCATE HARD-WIRED TRANSFORMER IN PLUMBING CHASE WITH FLEXIBLE STAINLESS CONDUITS PENETRATING BATHROOM WALL AS HIGH AS POSSIBLE TO THE UNDERSIDE OF THE LAVATORY.

SS-1 SERVICE SINK
FLORESTONE MODEL #MSR2424 MOLDED STONE MOP RECEPTOR COMPLETE WITH #MR-370 HOSE AND CLAMP, #MR-371 VACUUM BREAKER FAUCET, #MR-373 RIM GUARDS, #MR-375 CHROME FLAT STRAINER AND #MR-377 WALL GUARDS.

DF-1 DRINKING FOUNTAIN
ELKAY MODEL #LK4420BF1UFR ADA COMPLIANT FREEZE RESISTANT BOTTLE FILLING STATION/DRINKING FOUNTAIN COMBO WITH DUAL-VALVE CONTROL ASSEMBLY.

FD-1 FLOOR DRAIN
ZURN MODEL #Z-415 WITH TYPE "B" NICKEL BRONZE STRAINER AND BOTTOM OUTLET. FURNISH WITH CAST TRAP. SIZE AS SHOWN ON DRAWINGS. PROVIDE TRAP PRIMER CONNECTION WHERE SHOWN ON DRAWINGS.

HB-1 HOSE BIBB (INTERIOR)
WOODFORD MODEL 24P WITH VACUUM BREAKER AND LOOSE KEY HANDLE.

HB-2 HOSE BIBB (EXTERIOR)
WOODFORD FREEZE PROOF MODEL 65 WITH VACUUM BREAKER AND LOOSE KEY HANDLE.

TV-1 TEMPERING VALVE (DOMESTIC HW)
SYMMONS MODEL #6-102-W TEMPERING STATION WITH DIAL THERMOMETER, SHUT-OFF VALVE, UNIONS, CHECK STOPS AND WALL BRACKET. 1/2" INLET AND 1/2" OUTLET. 10 PSI MAXIMUM PRESSURE DROP. PROVIDE SPARE CARTRIDGE.

WHA-1 WATER HAMMER ARRESTOR
SIOUX CHIEF "HYDRA-RESTER" PISTON STYLE WATER HAMMER ARRESTOR PDI STANDARD AS NOTED ON DRAWINGS.

WH-1 WATER HEATER
BRADFORD WHITE MODEL #PDX-75S-70FB-3N POWER DIRECT VENT WATER HEATER. 75 GALLONS STORAGE, 68 GPH RECOVERY @ 100° RISE, 54.3 MBH INPUT @ ALTITUDE. 120V/SINGLE PHASE. 1250 LBS. OP. WGT.

CP-1 CIRCULATING PUMP
B&G MODEL # NBF 33-3/4" FOR 4 GPM @ 9 FOOT TDH, 125 WATTS, @ 115V/1ø.

ENERGY RECOVERY VENTILATOR

TAG	GREENHECK MODEL #	CFM	ESP (IN WG)	EFF.	WHEEL PERFORMANCE								HP	RPM	V/C/P	MCA	MOCP	WEIGHT
					SUMMER OUTDOOR		SUMMER EXHAUST		WINTER OUTDOOR		WINTER EXHAUST							
					EAT	LAT	EAT	LAT	EAT	LAT	EAT	LAT						
ERV 1	ERV-251S-10-A	900	.5	71.2	95/63	78/65	75	89.2	6	53/46	72	25	1/2	1418	208/60/1	12.8	15	380 LB.

ACCESSORIES:
1. UL-1995
2. OUTDOOR AIR FILTER(S): 2" MERV 8
3. EXHAUST AIR FILTER(S): 2" MERV 8
4. SUPPLY DAMPERS: MOTORIZED LOW LEAKAGE
5. EXHAUST DAMPERS: MOTORIZED LOW LEAKAGE
6. DIRTY FILTER SENSOR: OUTDOOR AND EXHAUST
7. MOTOR STARTERS
8. DISCONNECT
9. 24 VAC TRANSFORMER
10. BMS INTERFACE
11. TIMED EXHAUST FROST CONTROL

MECHANICAL EQUIPMENT SCHEDULE

ALL DATA HEREIN IS CORRECTED FOR 5000 FT. ELEVATION

HC 1 HEATING COIL
TEMTROL 20"x13.5" 2 ROW-10 FPI, 900 CFM AT A MAX .18" APD, 48.0 MBH SENSIBLE HEAT, 85.3° LDB, 3.5 GPM AT A MAX 6.5 FT WPD.

CC 1 COOLING COIL
CARRIER MODEL CNPHP3617A CASED HORIZONTAL COIL, 900 CFM @ MAX .16" APD, 22.3 MBH TC, 18.8 MBH S.C. @ 80°/62° EAT, OP. WGT. 65 LBS.

CU 1 CONDENSING UNIT
CARRIER MODEL #24APA536 AIR COOLED CONDENSING UNIT, 22.3 MBH TOTAL CAPACITY @ 95° AMB. 17.8 FLA, 21.9 MCA, 35 AMPS MOCP @ 208V/SINGLE PHASE. 300 LBS. OP. WGT.

AIR DISTRIBUTION SCHEDULE

NUMBERS ARE TITUS AND AS BASIS FOR DESIGN, EXCEPT WHERE NOTED

CD	CEILING DIFFUSER	GYP. BD.	TITUS MODEL MCD TYPE 6 FRAME
G	EXHAUST GRILLE	GYP. BD.	TITUS MODEL 50F 1/2"x1/2"x1/2" TYPE 1 FRAME
L	LOUVER	–	RUSKIN MODEL #ELF 6375 DX

GENERAL NOTES

1. A BOOK SPECIFICATION HAS BEEN PROVIDED FOR THIS PROJECT WHICH IS AN INTEGRAL PART OF THE CONSTRUCTION DOCUMENTS.
2. COORDINATE EXACT LOCATION OF EQUIPMENT AND OF PENETRATIONS THROUGH ROOF, FLOOR AND WALLS WITH STRUCTURAL DRAWINGS PRIOR TO ANY ROUGH-IN.
3. COORDINATE THE ROUTING OF DUCTWORK WITH PLUMBING AND ELECTRICAL SECTIONS PRIOR TO BEGINNING WORK.
4. SEE REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL GRILLES AND DIFFUSER IN CEILING.
5. ALL DUCT BRANCH SIZES TO CEILING DIFFUSER ARE CEILING DIFFUSER NECK SIZE EXCEPT WHERE NOTED.
6. PROVIDE MANUAL VOLUME DAMPER AT EACH BRANCH DUCT TAKEOFF. FLEXIBLE DUCT LENGTH SHALL NOT EXCEED 5'-0".
7. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES AND INDUSTRY STANDARDS.
8. SEE ARCHITECTURAL DRAWINGS FOR LOUVER LOCATIONS AND MOUNTING HEIGHTS.
9. ALL DUCT BRANCH SIZES TO CEILING ARE CEILING DIFFUSER SIZES EXCEPT WHERE NOTED. CD DESIGNATION "8/8 CD-4" INDICATES AN 8x8 RECTANGULAR DUCT CONNECTION WITH 4-WAY PATTERN. FIELD FABRICATED TRANSITION FROM ROUND DUCT TO RECTANGULAR CONNECTION REQUIRED.
10. DUCT SIZES SHOWN ARE NET INSIDE DIMENSIONS.
11. USE FLEXIBLE DUCT CONNECTION TO CONNECT DUCTWORK TO ALL EQUIPMENT.
12. VERIFY EXACT LOCATION, INVERT ELEVATION, SIZES, AND POINT OF CONNECTION OF ALL EXISTING UTILITIES PRIOR TO ROUGH-IN OF ANY PIPING.
13. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF PLUMBING FIXTURES TO MEET ADA REQUIREMENTS.
14. FOR ALL WALL HUNG FIXTURES, PROVIDE A 1/8" x 6" BACKING PLATE BOLTED TO A MINIMUM OF 4 STUDS. PROVIDE CONCEALED ARMS FOR LAV'S BOLTING TO BACKING PLATE.
15. HANDI-CAP WATER CLOSETS SHALL HAVE WATER ROUGH-IN LOCATED TO PROVIDE FLUSH HANDLE FACING THE WIDE SIDE OF STALL.
16. INSULATE P-TRAP AND HOT WATER SUPPLY ON ALL LAVATORIES AND SINKS WITH SKAL + GARD.
17. ALL WATER PIPING IN EXTERIOR WALLS SHALL BE INSULATED AND INSTALLED INSIDE THE BUILDING INSULATION.
18. COORDINATE THE ROUTING OF PLUMBING WITH DUCTWORK AND ELECTRICAL SECTIONS PRIOR TO BEGINNING WORK.

DRAWING INDEX

LEGEND

ALL ITEMS SHOWN IN THIS LEGEND ARE NOT NECESSARILY USED ON THE DRAWINGS.

ABBREVIATION	SYMBOL	DESCRIPTION
SUP		SUPPLY AIR
RET		RETURN AIR
EXH		EXHAUST AIR
CA		COMBUSTION AIR
RA		RELIEF AIR
TA		TRANSFER AIR
OSA		OUTSIDE AIR/MAKE-UP AIR
CD		CEILING DIFFUSER
R		REGISTER WITH OBD
FLEX.D.		FLEXIBLE DUCT
FDC		FLEXIBLE DUCTWORK CONNECTOR
LD		LINED DUCTWORK
MVD		MANUAL VOLUME DAMPER
BDD		BACK DRAFT DAMPER
SGD		SLIDE GATE DAMPER
G		RETURN/EXHAUST GRILLE
SWR		SIDE WALL REGISTER
OBD		OPPOSED BLADE DAMPER
FR		FLOOR REGISTER
AD		ACCESS DOOR
LD		LINEAR DIFFUSER
SD		SLOT DIFFUSER
LFM		LAMINAR FLOW MODULE
FD	F	FIRE DAMPER
AF	AF	AIR FLOW MEASURING STATION
M	M	MOTORIZED DAMPER
FS	FSD	COMBINATION FIRE/SMOKE DAMPER
T	T	THERMOSTAT
TS	TS	TEPERATURE SENSOR
TCP		TEMPERATURE CONTROL PANEL
UC		UNDER CUT
DL		DOOR LOUVER
CFM		CUBIC FEET PER MINUTE
RD		ROUND
REF		REFERENCE
LLS		LOW LIMIT SENSOR
POC		POINT OF CONNECTION
FBO		FURNISHED BY OTHERS
——	CO_2	CO_2 SENSOR
S OR W		SOIL, WASTE OR SEWER BELOW GRADE
S OR W		SOIL, WASTE OR SEWER ABOVE GRADE
ORWL	ORWL	OVERFLOW RAIN WATER LEADER
RWL	RWL	RAIN WATER LEADER
SD	SD	STORM DRAIN BELOW GRADE
G	G	LOW PRESSURE NATURAL GAS
V		VENT
CW	–	COLD WATER
HW	– –	HOT WATER (110°, 120°, OR 140° AS NOTED)
HWR	– – –	HOT WATER RETURN
HW / CW / HWR		HEAT TRACED
D	D	DRAIN
GV		GATE VALVE
TH.		THERMOMETER
P & TR		PRESSURE & TEMPERATURE RELIEF VALVE
PG		PRESSURE GAUGE WITH GAUGE COCK
FD		FLOOR DRAIN
FS		FLOOR SINK
F, GCO OR COTG		FLOOR, GRADE CLEANOUT, CLEANOUT TO GRADE
HB		HOSE BIBB
WCO		WALL CLEANOUT
UN		UNION
VTR		VENT THRU ROOF
RD		ROOF DRAIN
AFS		AUTOMATIC FIRE SPRINKLER RISER
TYP.		TYPICAL
REF.		REFERENCE
I.E.		INVERT ELEVATION

PLUMBING ROUGH-IN SCHEDULE

ABBR.	FIXTURE	ROUGH-IN SIZES (INCHES)					COMMENTS
		HW	CW	V	TRAP	S/W	
WC-1	WATER CLOSET	–	1	2	INTEG.	4	WALL HUNG (FV)
U-1	URINAL	–	3/4	1-1/2	INTEG.	2	WALL HUNG
L-1	LAVATORY	1/2	1/2	1-1/2	1-1/4 x 1-1/2	1-1/2	WALL HUNG
SS-1	SERVICE SINK	1/2	1/2	2	3	3	FLOOR MOUNTED
DF-1	DRINKING FOUNTAIN	–	1/2	1-1/2	1-1/4 x 1-1/2	1-1/2	BARRIER FREE HI-LO
FD-1	FLOOR DRAIN	–	–	1-1/2	1-1/2 x 2	2	WITH TRAP PRIMER CONNECTION WHERE NOTED ON PLANS
HB-1	HOSE BIBB	–	3/4	–	–	–	INTERIOR
HB-2	HOSE BIBB	–	3/4	–	–	–	EXTERIOR

Professional Seal

MECHANICAL ENGINEER - STATE OF NEVADA
STEVEN H. AINSWORTH
Exp. 12-31-14
MECHANICAL
No. 8139

5.1.14

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JOB: 2014-035

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Restroom/Storage Building

City of Sparks
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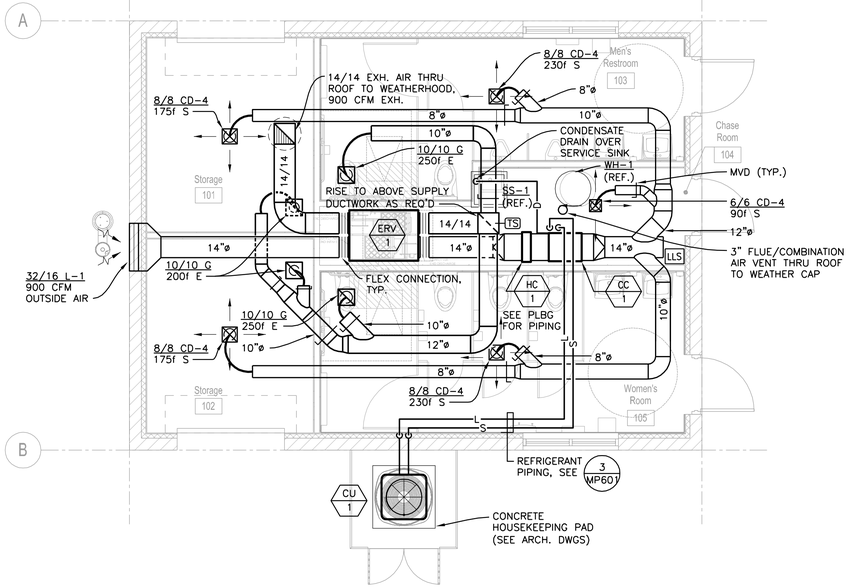
Sparks, Nevada 89436

MECHANICAL & PLUMBING FIXTURES, EQUIPMENT, AND NOTES
May 1, 2014
H+K Project No: 1408

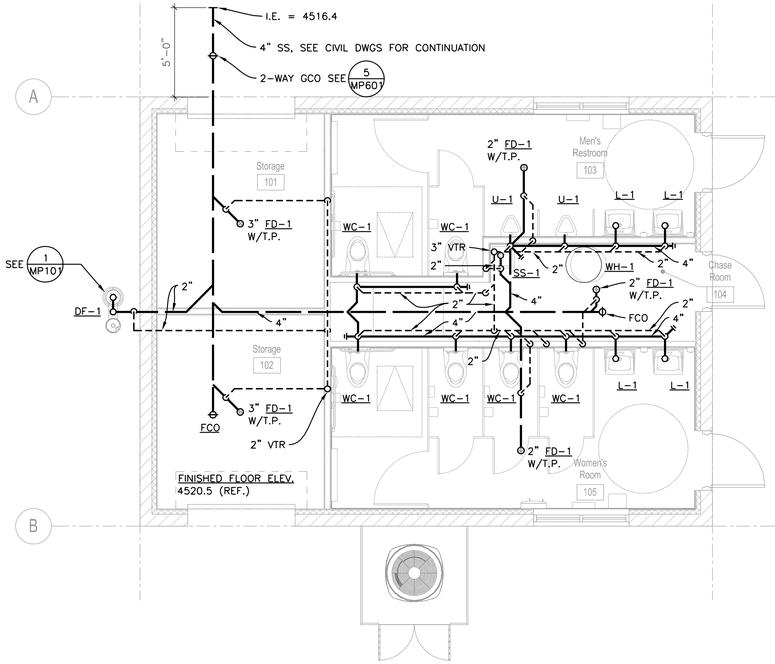
MP001



MECHANICAL FLOOR PLAN

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

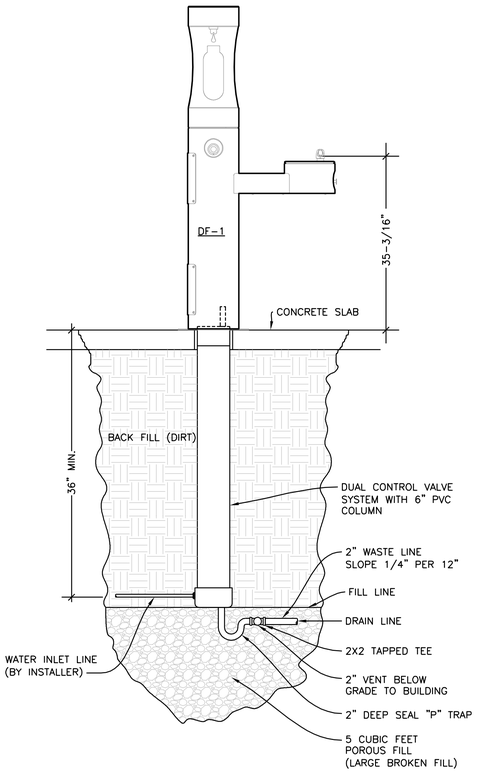
A MP101



PLUMBING PLAN - WASTE AND VENT

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

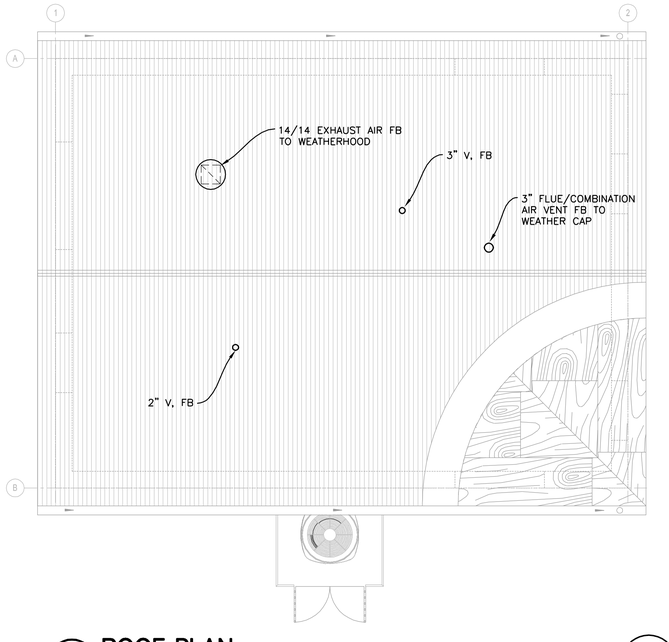
B MP101



BOTTLE FILLING STATION DETAIL

SCALE: NONE

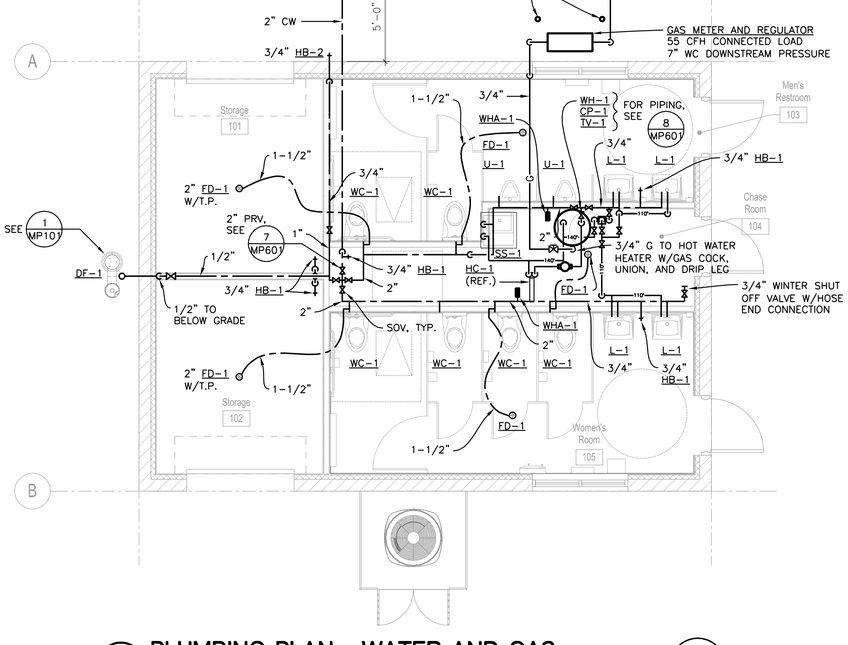
1 MP101



ROOF PLAN

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

C MP101



PLUMBING PLAN - WATER AND GAS

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

D MP101

Professional Seal

STEVEN H. AINSWORTH Exp. 12-31-14 MECHANICAL — STATE OF NEVADA — REGISTERED PROFESSIONAL ENGINEER — No. 8119

5.1.14

Date Revision

Consultant

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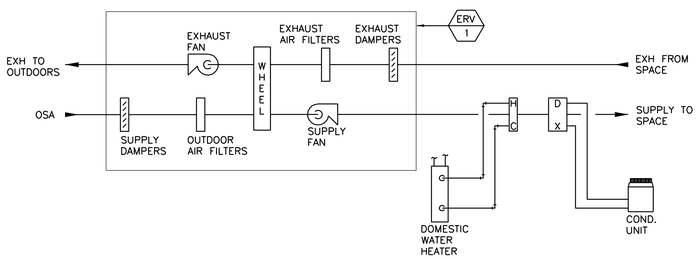
Golden Eagle Little League Fields Expansion
Restroom/Storage Building

City of Sparks
6200 Touchdown Drive
Sparks, Nevada 89436

MECHANICAL & PLUMBING PLANS

May 1, 2014
H+K Project No: 1408

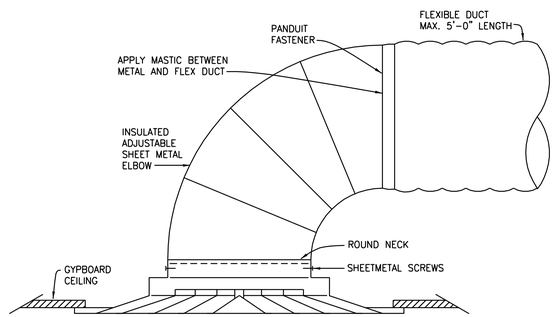
MP101



HEAT RECOVERY SYSTEM DESIGN

SCALE: NONE

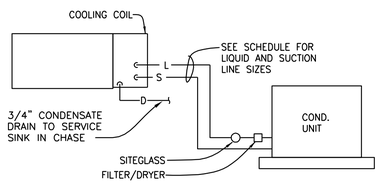
1 MP601



CEILING DIFFUSER

SCALE: NONE

2 MP601

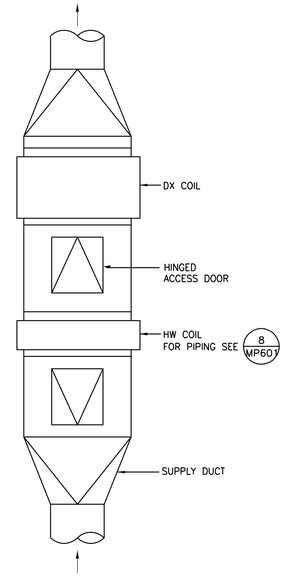


REFRIGERANT LINE SIZES		
SYMBOL	LIQUID O.D.	SUCTION O.D.
CU 1 / CC 1	3/8"	3/4"

REFRIGERATION PIPING

SCALE: NONE

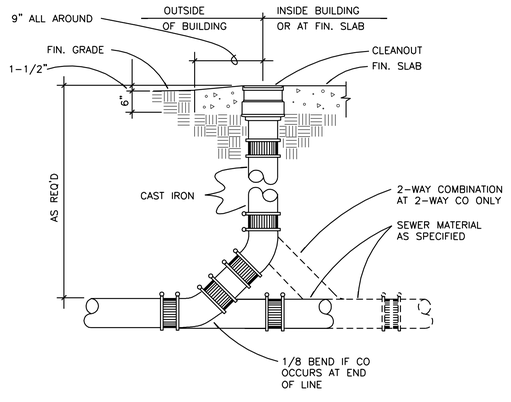
3 MP601



HOT WATER COIL IN DUCT

SCALE: NONE

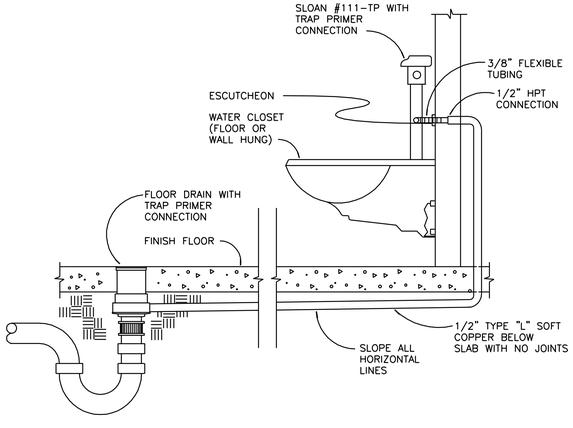
4 MP601



CLEAN-OUT TO GRADE

SCALE: NONE

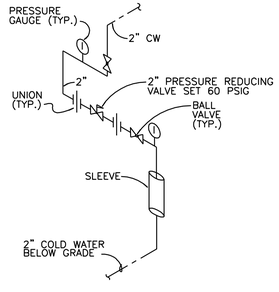
5 MP601



FLUSH/TRAP PRIMER

SCALE: NONE

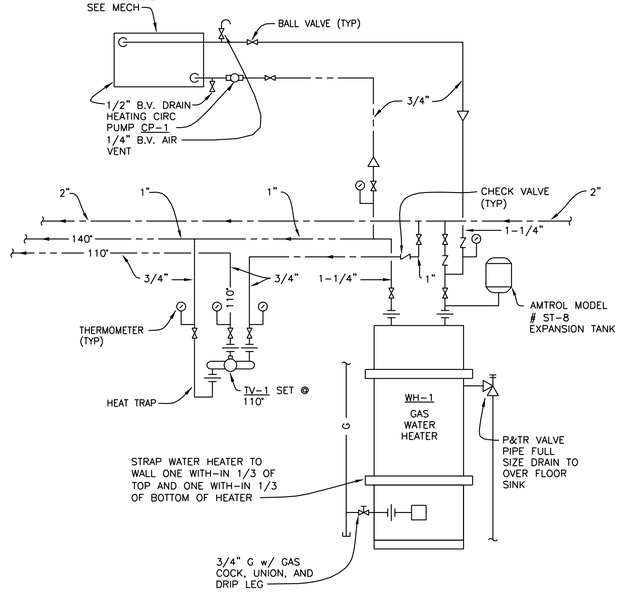
6 MP601



PRESSURE REDUCING VALVE

SCALE: NONE

7 MP601



GAS WATER HEATER

SCALE: NONE

8 MP601

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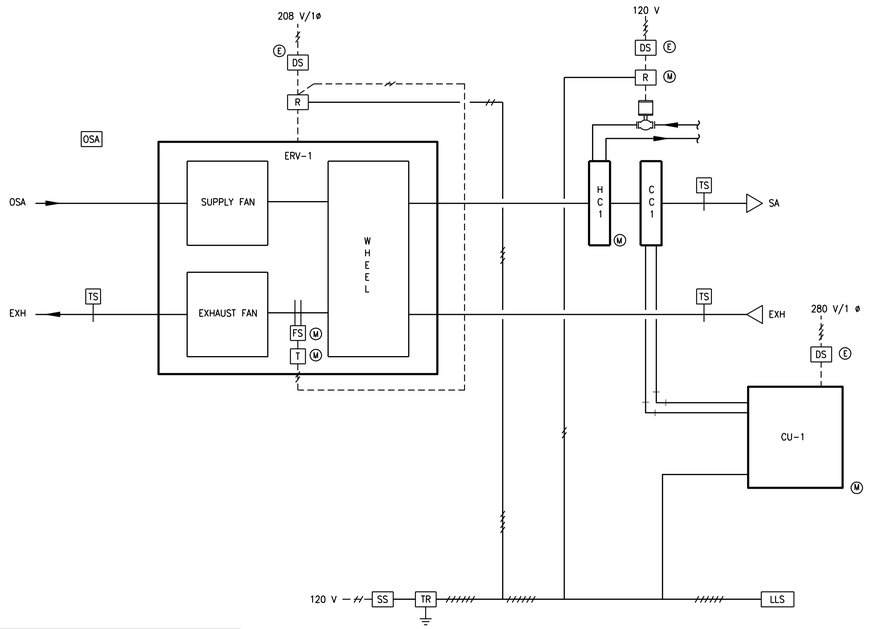
MECHANICAL & PLUMBING DETAILS

May 1, 2014
H+K Project No: 1408

MP601



NOTES:
1. ALL WORK SHALL BE ALERTON BY BUILDING CONTROL SERVICES (775) 826-8998 (NO EXCEPTIONS).

CONTROL DIAGRAM

CONTROL SEQUENCE

OCCUPIED CYCLE:
1. A PUSH BUTTON LOCATED IN THE CONCESSION AREA SHALL PLACE THE ERV INTO OCCUPIED MODE FOR A PROGRAMMED LENGTH OF TIME.
2. ERV (SUPPLY/EXHAUST FANS AND HEAT WHEEL) SHALL START AND RUN CONTINUOUSLY.
3. THE HEATING PUMP SHALL CYCLE TO MAINTAIN THE CURRENT OCCUPIED HEATING SETPOINT AS READ BY EXHAUST SENSOR.
4. THE DX COOLING SHALL CYCLE TO MAINTAIN THE CURRENT OCCUPIED COOLING SETPOINT AS READ BY EXHAUST SENSOR.

UNOCCUPIED CYCLE:
1. UNIT RETURNS TO UNOCCUPIED MODE AFTER PROGRAMMED LENGTH OF TIME HAS EXPIRED.
2. ERV (SUPPLY/EXHAUST FANS AND HEAT WHEEL) SHALL STOP.
3. DURING A CALL FOR UNOCCUPIED HEATING, THE ERV (SUPPLY/EXHAUST FANS AND HEAT WHEEL) SHALL START AND THE HEATING PUMP SHALL CYCLE TO MAINTAIN THE CURRENT UNOCCUPIED HEATING SETPOINT.
4. DURING A CALL FOR UNOCCUPIED COOLING, THE ERV (SUPPLY/EXHAUST FANS AND HEAT WHEEL) SHALL START AND DX COOLING SHALL CYCLE TO MAINTAIN THE CURRENT UNOCCUPIED COOLING SETPOINT.

SAFETY CONTROL:
1. IF THE FROST SWITCH INDICATES THAT THERE IS FROST BUILT UP ON THE HEAT WHEEL, THE UNIT SHALL BE DE-ENERGIZED FOR A PROGRAMMED LENGTH OF TIME TO ALLOW THE HEAT WHEEL TO DEFROST.
2. IF THE LOW LIMIT SENSOR LOCATED IN THE SPACE FALLS BELOW THE UNOCCUPIED HEATING SETPOINT, THE ERV (SUPPLY/EXHAUST FANS AND THE HEAT WHEEL) SHALL START AND THE HEATING PUMP SHALL CYCLE ON TO MAINTAIN THE UNOCCUPIED HEATING SETPOINT.
3. WHEN THE OUTSIDE AIR TEMPERATURE FALLS BELOW 35°F, HEATING PUMP SHALL CYCLE ON TO PROTECT PIPING/COIL.

OPERATORS TERMINAL:
1. SEE "TEMPERATURE CONTROL AND EMCS GENERAL NOTES".
2. ERV COMMAND(S) (ON/OFF).
3. COOLING (ON/OFF).
4. HEATING (ON/OFF).
5. SPACE TEMPERATURE (°F).
6. OUTSIDE AIR TEMPERATURE (°F).
7. SUPPLY AIR TEMPERATURE (°F).
8. RETURN AIR TEMPERATURE (°F).
9. EXHAUST AIR TEMPERATURE (°F).
10. FROST SWITCH (ALARM/NORMAL).
11. LOW LIMIT TEMPERATURE (°F).

CONTROL LEGEND

ERV	–	ENERGY RECOVERY VENTILATOR
SF	–	SUPPLY FAN
EF	–	EXHAUST FAN
CC	–	COOLING COIL
CU	–	CONDENSING UNIT
HC	–	HEATING COIL
SS	–	SYSTEM SWITCH
TR	–	TRANSFORMER (100 VA 120 V TO 24 V)
DS	–	DISCONNECT SWITCH
R	–	RELAY – SPST 24 VOLT
OSA	–	OUTSIDE AIR SENSOR
LLS	–	LOW LIMIT SENSOR
TS	–	TEMPERATURE SENSOR
FS	–	DUCT SENSOR (FROST SENSOR FURNISHED WITH EQUIPMENT)
T	–	TIMER (ADJUSTABLE) FURNISHED WITH EQUIPMENT
– – – –		POWER WIRE AND CONDUIT BY ELECTRICAL CONTRACTOR
———		CONTROL WIRE BY TEMPERATURE CONTROL CONTRACTOR
(E)		FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR
(M)		FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR

Professional Seal

STATE OF NEVADA – REGISTERED PROFESSIONAL ENGINEER – STEVEN H. AINSWORTH – Exp. 12-31-14 – MECHANICAL – No. 8139

5.1.14

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TEMPERATURE CONTROLS

May 1, 2014
H+K Project No: 1408

TC101

SPECIFICATIONS

ITEM	DESCRIPTION
16.1	STANDARDS AND CODES: ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), AS WELL AS ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES. THIS DOES NOT RELIEVE THE CONTRACTOR FROM FURNISHING AND INSTALLING WORK SHOWN OR SPECIFIED WHICH MAY EXCEED THE REQUIREMENTS OF SUCH ORDINANCES, LAWS, REGULATIONS AND CODES.
16.2	COMPLETE INSTALLATION: PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, ACCESSORIES, ETC., NECESSARY TO ACCOMPLISH A COMPLETE ELECTRICAL SYSTEM IN ACCORDANCE WITH THE PLANS TOGETHER WITH THE SPECIFICATIONS.
16.3	PERMITS: OBTAIN AND PAY FOR ALL BUILDING AND WORKING PERMITS AND INSPECTION FEES REQUIRED FOR THIS PROJECT.
16.4	DRAWINGS: DATA PRESENTED ON THESE DRAWINGS SHALL BE FIELD VERIFIED SINCE ALL DIMENSIONS, LOCATIONS, AND LEVELS ARE GOVERNED BY ACTUAL FIELD CONDITIONS. REVIEW ALL ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL AND SPECIALTY SYSTEMS DRAWINGS AND ADJUST ALL WORK TO MEET THE REQUIREMENTS ON CONDITIONS SHOWN THEREON, DO NOT SCALE ELECTRICAL PLANS FOR FIXTURE, DEVICE OR APPLIANCE LOCATIONS. USE CONFIGURED DIMENSIONS IF GIVEN OR CHECK ARCHITECTURAL OR MECHANICAL DRAWINGS.
16.5	COPYRIGHT: THESE PLANS, SPECIFICATIONS AND ALL RELATED ADDENDA AND DOCUMENTS CONSTITUTE COPYRIGHT MATERIALS OF JP ENGINEERING. ALL RIGHTS CONFERRED BY THE COPYRIGHT AND SIMILAR LAWS ARE RESERVED TO JP ENGINEERING. THESE MATERIALS SHALL REMAIN THE SOLE PROPERTY OF JP ENGINEERING AND MAY NOT BE REPRODUCED, DISTRIBUTED TO OTHERS OR USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE PRIOR WRITTEN CONSENT OF JP ENGINEERING.
16.6	LOCATIONS: INDICATED LOCATIONS OF ALL OUTLETS AND EQUIPMENT ARE SUBJECT TO CHANGE. SHIFT/RELOCATE/RECONFIGURE ANY OUTLET, EQUIPMENT OR CONNECTION POINT UP TO 10' AS DIRECTED BY ENGINEER, AT NO ADDED COST.
16.7	RECORD DRAWINGS: CONTRACTOR SHALL PROVIDE, PRIOR TO FINAL ACCEPTANCE AND OBSERVATION, ONE SET OF REVISED RECORD ELECTRICAL CONSTRUCTION DOCUMENTS ON REPRODUCIBLE MEDIUM INDICATING THE FOLLOWING ADDITIONAL INFORMATION: EXACT ROUTING OF ALL CONDUITS LARGER THAN 1" EXACT LOCATION OF ALL SERVICE GROUNDING/BONDING CONNECTIONS CONTRACTORS NAME, ADDRESS AND TELEPHONE NUMBER RECORD NOTATIONS SHALL BE CLEARLY DRAWN AT A DRAFTING APPEARANCE EQUAL TO THE ORIGINAL DRAWINGS. CONTRACTOR SHALL ALSO PROVIDE ALL OPERATING AND MAINTENANCE MANUALS PRIOR TO FINAL PAYMENT.
16.8	EXAMINATION OF SITE AND EXISTING CONDITIONS: BEFORE SUBMITTING A PROPOSAL, CONTRACTOR SHALL EXAMINE THE SITE AND FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND LIMITATIONS. NO EXTRAS WILL BE ALLOWED BECAUSE OF THE CONTRACTOR'S MISUNDERSTANDING OF THE AMOUNT OF WORK INVOLVED OR HIS LACK OF KNOWLEDGE OF ANY SITE CONDITIONS WHICH MAY AFFECT HIS WORK. ANY APPARENT VARIANCE OF THE DRAWINGS OR SPECIFICATIONS FROM THE EXISTING CONDITIONS AT THE SITE SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER BEFORE SUBMITTING A PROPOSAL.
16.9	TESTING: PRIOR TO PLACING IN SERVICE, ALL ELECTRICAL SYSTEMS SHALL BE TESTED FOR OPENS, GROUNDS, AND PHASE ROTATION. THE MAIN SERVICE GROUND AND ALL LOCAL TRANSFORMER MADE GROUNDS SHALL BE MEGGER-TESTED. PROVIDE GFI TESTING FOR SERVICE SWITCHBOARD.
16.10	GROUNDING: GROUND ALL EQUIPMENT AND SYSTEM NEUTRAL IN ACCORDANCE WITH ARTICLE 250 OF THE NEC. EQUIPMENT GROUNDS HAVE NOT BEEN SHOWN ON DRAWINGS – WHERE GROUND WIRES HAVE BEEN SHOWN THEY INDICATE AN INSULATED GROUND.
16.11	EQUIPMENT STANDARDS: ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND OF THE HIGHEST QUALITY AVAILABLE ("SPECIFICATION GRADE"). SERVICE EQUIPMENT SHALL BE FACTORY-ASSEMBLED COMMERCIAL-GRADE, CONFIGURED PER SERVING UTILITY STANDARDS. WIRING DEVICES SHALL BE SPECIFICATION GRADE WITH NYLON PLATES, WHITE UNLESS OTHERWISE NOTED, RAISED STEEL BOX COVERS MAY BE USED IN UTILITY AREAS.
16.12	TAMPER-PROOF: ALL EQUIPMENT AND CIRCUITING ACCESSIBLE BY THE PUBLIC SHALL BE TAMPER-PROOF AND VANDAL RESISTANT. OPENABLE DEVICES AND EQUIPMENT SHALL BE PADLOCKABLE.
16.13	PANELBOARDS: PANELS SHALL HAVE FLUSH MONO-FLAT TRIM, LOCKING DOOR-IN-DOOR HINGED COVERS AND BOLT-ON CIRCUIT BREAKERS. FLUSH-MOUNTED PANELS SHALL HAVE EMPTY CONDUITS STUBBED TO ACCESSIBLE ATTIC SPACE: ONE 1" CONDUIT FOR EACH FOUR SPARE/SPACE CIRCUITS. PROVIDE ONE TYPED AND ONE SPARE PANEL SCHEDULE FOR OWNER'S USE. SCHEDULES SHALL BE TWO COLUMN TYPE WITH ODD CIRCUIT NUMBERS ON THE LEFT AND EVEN NUMBERS ON THE RIGHT.
16.14	CIRCUITING: ALL WIRING SHALL BE IN CONDUIT, CONCEALED EXCEPT WHERE NOTED. EMT WITH STEEL SET SCREW INSULATED-THROAT FITTINGS MAY BE USED IN DRY, PROTECTED INTERIOR LOCATIONS. PVC SCHEDULE 40 SHALL BE USED BELOW GRADE AT MINIMUM -24". WRAPPED RIGID ELBOWS AND RISERS SHALL BE USED FOR ALL THROUGH-GRADE TRANSITIONS AND STUB-UPS. RGS OR IMC CONDUIT WITH THREADED FITTINGS SHALL BE USED IN ALL LOCATIONS WHERE EXPOSED TO THE ELEMENTS OR SUBJECT TO PHYSICAL DAMAGE. METAL-CLAD CABLE (TYPE MC) WILL BE ACCEPTABLE FOR INSTALLATION AS FLEXIBLE WHIPS FROM JUNCTION BOXES TO LIGHTING FIXTURES AND WITHIN CASEWORK. TYPE MC CABLE MAY NOT BE USED FOR HOMERUNS OR SINGLE BRANCH CIRCUITS. ENT IS NOT ALLOWED. CONNECT RECESSED AND SUSPENDED LIGHTING FIXTURES, MOTORIZED AND VIBRATING EQUIPMENT WITH STEEL FLEX. ALL CONDUIT SHALL HAVE PULL CORD IF OTHERWISE EMPTY.
16.15	WIRING: WIRE SHALL BE COPPER UNLESS OTHERWISE INDICATED. MINIMUM WIRE SIZE SHALL BE #12 AWG. INSULATION SHALL BE THW, THWN OR THHN.
16.16	FUSES: FUSES SHALL BE SIZED PER ACTUAL NAMEPLATE OF EQUIPMENT SERVED. FUSES SHALL BE DUAL-ELEMENT, CURRENT-LIMITING, AND SHALL BE INTERCHANGEABLE BETWEEN FRAME SIZES WITH STANDARD FACTORY FUSE REDUCERS. FUSES SHALL BE AS FOLLOWS UNLESS OTHERWISE INDICATED: CIRCUITS 601 TO 6000 AMPERES SHALL BE PROTECTED BY CURRENT LIMITING BUSSMANN LOW-PEAK TIME-DELAY FUSES KRP-C – UL CLASS L CIRCUITS 0 TO 600 AMPERES SHALL BE PROTECTED BY CURRENT LIMITING BUSSMANN LOW-PEAK DUAL-ELEMENT FUSES LPN-RK (250 VOLTS) OR LPS-RK (600 VOLTS) – UL CLASS RK1 ALL INDIVIDUAL MOTOR CIRCUITS RATED 480 AMPERES OR LESS SHALL BE PROTECTED BY BUSSMANN LOW-PEAK DUAL-ELEMENT FUSES LPN-RK (250 VOLTS) OR LPS-RK (600 VOLTS)-UL CLASS RK1 OR L CIRCUIT BREAKER PANELS SHALL BE PROTECTED BY BUSSMANN LOW-PEAK DUAL-ELEMENT FUSES LPN-RK (250 VOLTS), LPS-RK (600 VOLTS) OR BUSSMANN LOW-PEAK KRP-C TIME-DELAY FUSES – UL CLASS RK1 OR L ALL DUAL-ELEMENT FUSES SHALL HAVE SEPARATE OVERLOAD AND SHORT-CIRCUIT ELEMENTS. PROVIDE SPARE FUSE CABINET AFTER THE COMPLETION OF THE PROJECT WITH ONE SET OF SPARE FUSES FOR EVERY SIZE USED.
16.17	UTILITY SERVICES: PROVIDE POWER AND COMMUNICATIONS SYSTEM SERVICES IN ACCORDANCE WITH THE REQUIREMENTS OF THE SERVING UTILITIES. PROVIDE EXCAVATION, RACEWAY, STRUCTURES, GROUNDING, ETC. AS REQUIRED. CONTACT SERVING UTILITIES AND OBTAIN THEIR PROJECT SPECIFIC REQUIREMENTS PRIOR TO BID. UTILITY WORK INDICATED HEREIN IS FOR BIDDING ASSISTANCE ONLY. THESE PLANS DO NOT PURPORT TO INDICATE ALL WORK REQUIRED. (UTILITY SERVICE CHARGES PAID BY OTHERS).
16.18	TEMPORARY CONSTRUCTION POWER: PROVIDE TEMPORARY ELECTRICAL POWER AND LIGHTING FOR ALL TRADES THAT REQUIRE SERVICE DURING THE COURSE OF THIS PROJECT. PROVIDE TEMPORARY SERVICE AND DISTRIBUTION AS REQUIRED. COMPLY WITH THE NEC AND OSHA REQUIREMENTS. (ENERGY COSTS BY OTHERS).
16.19	SUBMITTALS: BEFORE ORDERING ANY EQUIPMENT, CONTRACTOR SHALL SUBMIT SIX COPIES OF FACTORY SHOP DRAWINGS FOR ALL LIGHTING FIXTURES, SWITCHGEAR, PANELS, MOTOR CONTROLLERS, WIRING DEVICES, ETC. PROPOSED FOR THIS PROJECT.
16.20	SUBSTITUTIONS: PROPOSED SUBSTITUTIONS SHALL BE EQUAL OR SUPERIOR TO SPECIFIED ITEMS IN ALL RESPECTS. DETERMINATION OF EQUALITY RESTS SOLELY WITH ENGINEER. SUBSTITUTIONS MUST BE SUBMITTED A MINIMUM OF 10 WORKING DAYS PRIOR TO BID FOR CONSIDERATION. PROPOSED SUBSTITUTIONS PROVIDED LATER WILL NOT BE REVIEWED OR ALLOWED. BID SUBSTITUTED MATERIAL WILL ONLY BE ALLOWED IF ACCEPTED IN WRITING BY ENGINEER.
16.21	IDENTIFICATION: PROVIDE ENGRAVED NAMEPLATES FOR ALL SWITCHBOARDS, PANELS, TRANSFORMERS, DISCONNECTS, MOTOR STARTERS, CONTACTORS, TIME SWITCHES AND CABINETS. NAMEPLATES SHALL INCLUDE THE FOLLOWING INFORMATION AS APPLICABLE: DESIGNATION (i.e. PANEL A) FUNCTION (i.e. AIR HANDLER AH-1) VOLTAGE, PHASE, WIRE (i.e. 480 VOLT, 3ø, 4W.) FEEDER SIZE (i.e. 4-#4/0 THWN CU IN 2" C.) SOURCE (i.e. SWITCHBOARD MSB) NAMEPLATES SHALL BE WHITE LETTERS ON BLACK FOR NORMAL EQUIPMENT AND WHITE LETTERS ON RED FOR EMERGENCY EQUIPMENT.
16.22	GUARANTEE: THE COMPLETE ELECTRICAL SYSTEM, AND ALL PORTIONS THEREOF, SHALL BE GUARANTEED TO BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. PROMPTLY REMEDY SUCH DEFECTS AND ANY SUBSEQUENT DAMAGE CAUSED BY THE DEFECTS OR REPAIR THEREOF AT NO EXPENSE TO THE OWNER. LAMPS ARE EXEMPT FROM THIS GUARANTEE, BUT SHALL BE NEW AT TIME OF FINAL ACCEPTANCE.
16.23	COORDINATION: THE CIVIL, ARCHITECTURAL, MECHANICAL, KITCHEN AND INTERIOR DRAWINGS CONTAIN DETAIL DESCRIPTIONS, CIRCUITING AND CONNECTION REQUIREMENTS WHICH ARE PART OF DIVISION 16 RESPONSIBILITIES. ELECTRICAL CONTRACTOR SHOULD NOT SUBMIT BIDS ON THIS PROJECT BEFORE REVIEWING ALL PROJECT DRAWINGS, SPECIFICATIONS AND ADDENDA.

MASTER SYMBOL LIST

SIGNAL OUTLETS

▼	TELEPHONE: 4S BOX WITH SINGLE GANG MUD RING UON, +18" AFF UON
▼	TELEPHONE: 4S BOX WITH SINGLE GANG MUD RING UON, WALL MOUNT +54" AFF UON
▽	DATA: 4S BOX WITH SINGLE GANG MUD RING UON, +18" AFF UON
▼	VOICE/DATA: 4S BOX WITH SINGLE GANG MUD RING UON, +18" AFF UON
Ⓣ	TELEVISION: 4S BOX WITH SINGLE GANG MUD RING UON, +18" AFF UON
Ⓒ	CAMERA: 4S BOX WITH SINGLE GANG MUD RING UON, CEILING MOUNTED UON
Ⓜ	MICROPHONE: 4S BOX WITH SINGLE GANG MUD RING UON, +18" AFF UON
Ⓥ	VOLUME CONTROL: 4S BOX WITH SINGLE GANG MUD RING UON, +48" TO TOP UON
Ⓢ	SPEAKER: 8" COAXIAL WITH BACK BOX AND GRILLE, CEILING MOUNTED UON
——⊣	3/4"C (UON) STUB INTO ACCESSIBLE CEILING SPACE

SWITCHES

S	SINGLE POLE: 20A, 120/277V, +48" TO TOP UON
S_2	TWO POLE: 20A, 120/277V, +48" TO TOP UON
S_3	THREE WAY: 20A, 120/277V, +48" TO TOP UON
S_4	FOUR WAY: 20A, 120/277V, +48" TO TOP UON
S_X	X INDICATES EMERGENCY CIRCUIT
S_P	P INDICATES PILOT LIGHT (LIGHTED WHEN ON)
S_L	L INDICATES PILOT LOCATOR (LIGHTED WHEN OFF)
S_K	K INDICATES KEY OPERATED SWITCH
S_M	MANUAL MOTOR STARTER: 20A, 120/277V, POLES AND HEATERS AS REQUIRED
S_{MC}	MOMENTARY CONTACT: 20A, 120/277V, SPDT CENTER NORMALLY OFF UON, +48" TO TOP UON
D	DIMMER: 600 WATT UON, ELECTRONIC SLIDER, WITH ON/OFF TOGGLE, +48" TO TOP UON (PLANS SHALL INDICATE TYPE: FLUOR, INCAND OR LOW-VOLTAGE)
◆	MOTION/OCCUPANCY SENSOR SWITCH WITH OFF-AUTO SELECTOR – WALL MOUNTED AT +48" TO TOP UON
OS = 360 OS = 180 OS = 90	ULTRASONIC MOTION/OCCUPANCY SENSOR SWITCH CEILING MOUNTED ARROWS INDICATE DIRECTION AND COVERAGE PROVIDE WITH POWER PACK PER MANUFACTURERS REQUIREMENTS
PE	PHOTO ELECTRIC SWITCH: 1600VA UON

METHODS

S_X	SHADING INDICATES: FIXTURE, OUTLET, EQUIPMENT, ETC. ON EMERGENCY 'X' OR NIGHT LIGHT 'NL' CIRCUIT
SS	DEVICE MOUNTED IN MULTIPLE UNDER COMMON COVER MAXIMUM HEIGHT ON WALL SHALL BE +48" TO TOP UON
	DEVICES MOUNTED IN OR ABOVE COUNTER/BACKSPLASH: MAXIMUM HEIGHT ON WALLS SHALL BE +48" TO TOP UON
	FLUSH FLOOR MOUNTED WIRING DEVICES
	FLUSH FLOOR MOUNTED WIRING DEVICES IN SINGLE MULTI-COMPARTMENT BOX
	RECEPTACLE MOUNTED IN CEILING OR CASEWORK
F	FINE DASHING INDICATES EXISTING EQUIPMENT AND DEVICES TO BE REMOVED

DESIGNATIONS

/1/	LIGHT FIXTURE: F1 = TYPE (SEE FIXTURE SCHEDULE)
◇2	SHEET NOTE
△1	REVISION DELTA: NUMBER REPRESENTS REVISION
AC 1	MECHANICAL AND PLUMBING EQUIPMENT
A 5	MISCELLANEOUS: THESE AND OTHER SYMBOLS AS INDICATED IN TABLES AND SCHEDULES ON THE PLANS.

RECEPTACLES

	DUPLEX: 20A, 125V, NEMA 5-20, +18" AFF
	DOUBLE DUPLEX: 20A, 125V, NEMA 5-20, +18" AFF
	HALF SWITCHED DUPLEX: 20A, 125V, NEMA 5-20, +18" AFF (TOP HALF SWITCHED)
	DUPLEX GFCI: 20A, 125V, GFCI, NEMA 5-20 GFR, +18" AFF
	DUPLEX I.G.: 20A, 125V, ISO. GND., NEMA 5-20 IG +18" AFF (WHITE WITH ORANGE TRIANGLE, UON)
	DOUBLE DUPLEX I.G.: 20A, 125V, ISO. GND., NEMA 5-20 IG +18" AFF (WHITE WITH ORANGE TRIANGLE, UON)
	SPECIAL RECEPTACLE – AS INDICATED ON PLANS, +18" AFF

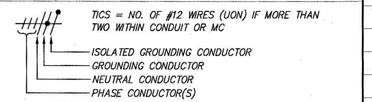
NOTE: DIAMOND SYMBOLS INDICATES DEDICATED CIRCUIT.

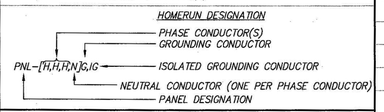
EQUIPMENT

	SWITCHBOARD
	PANELBOARD: SURFACE MOUNTED
	PANELBOARD: FLUSH MOUNTED
	TRANSFORMER
	RELAY (120V COIL , STEP DN XFMR IF REQUIRED, UON)
	CONTACTOR (120V COIL, STEP DN XFMR IF REQUIRED, UON)
	COMBINATION MAGNETIC STARTER/FUSED DISCONNECT
	NON-FUSIBLE DISCONNECT SWITCH
	FUSIBLE DISCONNECT SWITCH
	PULLBOX: SIZE AS REQUIRED BY NEC
	JUNCTION BOX: SIZE AS REQUIRED BY NEC
	SURFACE RACEWAY WITH OR WITHOUT DEVICES
TP	TELEPOWER POLE

CIRCUITING

	CONDUIT IN WALL OR ABOVE CEILING
	CONDUIT IN FLOOR OR BELOW GRADE
	METAL CLAD CABLE (MC)
—OH—	OVERHEAD SERVICE
— P —	PRIMARY
— S —	SECONDARY
— T —	TELEPHONE
—TV—	TELEVISION
	LOW VOLTAGE AND/OR CONTROL CIRCUITNG
	EMERGENCY CIRCUIT
	STUB OUT: MARK AND CAP (SITE)
	CIRCUITING UP OR DOWN





MISCELLANEOUS

T	THERMOSTAT: AT +54" TO TOP UON (OR PER MECH PLANS)
F	EXHAUST FAN: FRACTIONAL HORSEPOWER
1	MOTOR: NUMBER = HORSEPOWER
SIGN	SIGNAGE CONNECTION
	SHUNT TRIP STATION: +7'-6" AFF, 12" RED TRIANGLE, UON
	CONTROL STATION: AT +48" TO TOP UON
a b	DUAL LEVEL LIGHTING CONTROL SWITCH 'a' = CENTER (1) LAMP SWITCH 'b' = OUTER (2) LAMPS

NOTE:
THIS IS A MASTER SYMBOL LIST, ALL SYMBOLS SHOWN MAY NOT BE USED WITHIN THIS SET OF PLANS

ABBREVIATIONS

℄	CENTERLINE
AFF	ABOVE FINISHED FLOOR
AIC	AMPERES INTERRUPTING CAPACITY
AFC	ABOVE FINISH CEILING
BMS	BUILDING MANAGEMENT SYSTEM
C	CONDUIT
CB	CIRCUIT BREAKER
CLG	CEILING
CIR	CIRCUIT
DPDT	DOUBLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
(E)	EXISTING TO REMAIN
ELEV	ELEVATOR
EMT	ELECTRICAL METALLIC TUBING
EPO	EMERGENCY POWER OFF SYSTEM
FBO	FURNISHED BY OTHERS
FPEN	FUSE PER EQUIPMENT NAMEPLATE
FLUOR	FLUORESCENT
FU	FUSE: DUAL-ELEMENT, TIME DELAY
GFI/GFCI	GROUND FAULT INTERRUPTER
GND	GROUND
HOA	HAND-OFF-AUTOMATIC
HID	HIGH INTENSITY DISCHARGE
IG	ISOLATED GROUND
INCAND	INCANDESCENT
K	kcmil (300K = 300 kcmil)
LTG	LIGHTING
LV	LOW VOLTAGE
MCP	MOTOR CIRCUIT PROTECTOR
MC	MULTI-CONDUCTOR CABLE
(N)	NEW
NC	NORMALLY CLOSED
NEUT	NEUTRAL
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
PNL	PANEL
PVC	POLYVINYL CHLORIDE CONDUIT
(R)	EXISTING TO BE RELOCATED
RAC	RIGID ALUMINUM CONDUIT
RSC	RIGID STEEL CONDUIT
SLD	SINGLE LINE DIAGRAM
SO	SEAL OFF
SPDT	SINGLE POLE DOUBLE THROW
SPEN	SIZE PER EQUIPMENT NAMEPLATE
SPST	SINGLE POLE SINGLE THROW
TEL	TELECOM
TYP	TYPICAL
UNSW	UNSWITCHED
UON	UNLESS OTHERWISE NOTED
WP	WEATHERPROOF (NEMA 3R)
WT	WATERTIGHT
(X)	EXISTING TO BE REMOVED
XFMR	TRANSFORMER
XP	EXPLOSION PROOF

Professional Seal

REGISTERED PROFESSIONAL ENGINEER-STATE OF NEVADA
JAMES P. SOLARO
No. 15516
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△ Date Revision

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Golden Eagle Little League Fields Expansion
Restroom/Storage Building

City of Sparks
6200 Touchdown Drive
Sparks, Nevada 89436

SYMBOL LIST
AND DRAWING INDEX

May 01, 2014
H+K Project No.: 1408

E001

❑ 4. Independent controls for each space (switch/occupancy sensor).

Exceptions:

❑ Areas designated as security or emergency areas that must be continuously illuminated.

❑ Lighting in stairways or corridors that are elements of the means of egress.

❑ 5. Master switch at entry to hotel/motel guest room.

❑ 6. Individual dwelling units separately metered.

❑ 7. Medical task lighting or art/history display lighting claimed to be exempt from compliance has a control device independent of the control of the nonexempt lighting.

❑ 8. Each space required to have a manual control also allows for reducing the connected lighting load by at least 50 percent by either controlling all luminaires, dual switching of alternate rows of luminaires, alternate luminaires, or alternate lamps, switching the middle lamp luminaires independently of other lamps, or switching each luminaire or each lamp.

Exceptions:

❑ Only one luminaire in space.

❑ An occupant-sensing device controls the area.

❑ The area is a corridor, storeroom, restroom, public lobby or sleeping unit.

❑ Areas that use less than 0.6 Watts/sq.ft.

❑ 9. Automatic lighting shutoff control in buildings larger than 5,000 sq.ft.

Exceptions:

❑ Sleeping units, patient care areas; and spaces where automatic shutoff would endanger safety or security.

❑ 10. Photocell/astronomical time switch on exterior lights.

Exceptions:

❑ Lighting intended for 24 hour use.

❑ 11. Tandem wired one-lamp and three-lamp ballasted luminaires (No single-lamp ballasts).

Exceptions:

❑ Electronic high-frequency ballasts; Luminaires on emergency circuits or with no available pair.

Section 5: Compliance Statement

Compliance Statement: The proposed lighting design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the 2009 IECC requirements in COMcheck Version 3.9.2 and to comply with the mandatory requirements in the Requirements Checklist.

Name - Title | Signature | Date

COMcheck Software Version 3.9.2
Interior Lighting Compliance Certificate

2009 IECC

Section 1: Project Information

Project Type: **New Construction**
Project Title : Golden Eagle Little League Fields Expansion

Construction Site:
6200 Touchdown Drive
Sparks, NV 89436

Owner/Agent:

Designer/Contractor:
James Solaro, PE
JP Engineering, LLC
10597 Double R Blvd
Reno, NV 89521
775-852-2337

Section 2: Interior Lighting and Power Calculation

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B x C)
Restroom/Storage (Warehouse)	768	0.8	614
		Total Allowed Watts =	614

Section 3: Interior Lighting Fixture Schedule

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Restroom/Storage (Warehouse 768 sq.ft.) :				
Linear Fluorescent 1: F1: See Fixture Schedule: 48" T8 32W: Electronic:	2	4	65	260
Linear Fluorescent 2: F1X: See Fixture Schedule: 48" T8 32W: Electronic:	2	2	65	130
Linear Fluorescent 3: F2: See Fixture Schedule: 48" T8 32W: Electronic:	2	2	65	130
Linear Fluorescent 4: F3: See Fixture Schedule: 48" T8 32W: Electronic:	1	2	32	64
			Total Proposed Watts =	584

Section 4: Requirements Checklist

Interior Lighting PASSES: Design 5% better than code.

Lighting Wattage:

❑ 1. Total proposed watts must be less than or equal to total allowed watts.

Allowed Watts	Proposed Watts	Complies
614	584	YES

Controls, Switching, and Wiring:

❑ 2. Daylight zones under skylights more than 15 feet from the perimeter have lighting controls separate from daylight zones adjacent to vertical fenestration.

❑ 3. Daylight zones have individual lighting controls independent from that of the general area lighting.

Exceptions:

❑ Contiguous daylight zones spanning no more than two orientations are allowed to be controlled by a single controlling device.

❑ Daylight spaces enclosed by walls or ceiling height partitions and containing two or fewer light fixtures are not required to have a separate switch for general area lighting.

Exterior Lighting Efficacy:

❑ 6. All exterior building grounds luminaires that operate at greater than 100W have minimum efficacy of 60 lumen/watt.

Exceptions:

❑ Lighting that has been claimed as exempt and is identified as such in Section 3 table above.

❑ Lighting that is specifically designated as required by a health or life safety statue, ordinance, or regulation.

❑ Emergency lighting that is automatically off during normal building operation.

❑ Lighting that is controlled by motion sensor.

Section 5: Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the 2009 IECC requirements in COMcheck Version 3.9.2 and to comply with the mandatory requirements in the Requirements Checklist.

James Solaro, PE | Signature | 5/1/14
Name - Title | Date

COMcheck Software Version 3.9.2
Exterior Lighting Compliance Certificate

2009 IECC

Section 1: Project Information

Project Type: **New Construction**
Project Title : Golden Eagle Little League Fields Expansion
Exterior Lighting Zone: **2 (Residential mixed use area)**

Construction Site:
6200 Touchdown Drive
Sparks, NV 89436

Owner/Agent:

Designer/Contractor:
James Solaro, PE
JP Engineering, LLC
10597 Double R Blvd
Reno, NV 89521
775-852-2337

Section 2: Exterior Lighting Area/Surface Power Calculation

A Exterior Area/Surface	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B x C)	F Proposed Watts
Restroom Site (Plaza area)	1520 ft2	0.14	Yes	213	216
			Total Tradable Watts* =	213	216
			Total Allowed Watts =	213	
			Total Allowed Supplemental Watts** =	600	

* Wattage tradeoffs are only allowed between tradable areas/surfaces.
** A supplemental allowance equal to 600 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Section 3: Exterior Lighting Fixture Schedule

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Restroom Site (Plaza area 1520 ft2): Tradable Wattage				
LED 1: L1: See Fixture Schedule: LED Roadway-Parking Unit 54W:	1	3	54	162
LED 2: L1X: See Fixture Schedule: LED Roadway-Parking Unit 54W:	1	1	54	54
			Total Tradable Proposed Watts =	216

Section 4: Requirements Checklist

Lighting Wattage:

❑ 1. Within each non-tradable area/surface, total proposed watts must be less than or equal to total allowed watts. Across all tradable areas/surfaces, total proposed watts must be less than or equal to total allowed watts.
Compliance: Passes using supplemental allowance watts.

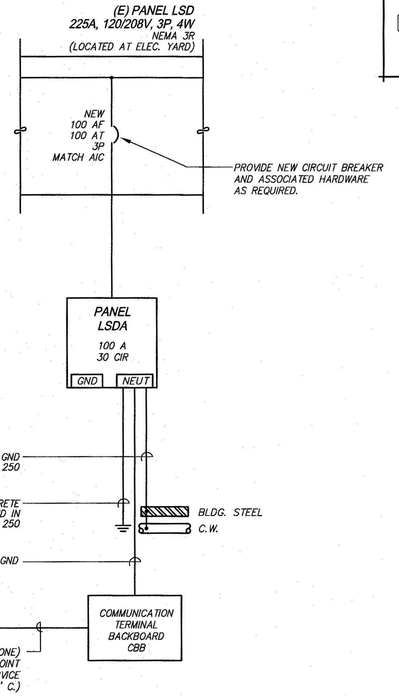
Controls, Switching, and Wiring:

❑ 2. All exemption claims are associated with fixtures that have a control device independent of the control of the nonexempt lighting.

❑ 3. Lighting not designated for dusk-to-dawn operation is controlled by either a a photosensor (with time switch), or an astronomical time switch.

❑ 4. Lighting designated for dusk-to-dawn operation is controlled by an astronomical time switch or photosensor.

❑ 5. All time switches are capable of retaining programming and the time setting during loss of power for a period of at least 10 hours.



A E002 — PARTIAL SINGLE LINE DIAGRAM
SCALE: NOT TO SCALE

LIGHTING FIXTURE SCHEDULE

LIGHTING FIXTURE CATALOG NUMBERS ARE SERIES TYPE ONLY. PROVIDE TRIMS, BALLASTS, MOUNTING EQUIPMENT, FITTINGS AND LAMPS AS REQUIRED BY THE SPECIFICATIONS AND PROJECT CONDITIONS FOR A COMPLETE INSTALLATION. THIS IS NOT A STANDALONE SCHEDULE AND FIXTURES MUST INCORPORATE ALL WORK INDICATED OR IMPLIED THROUGHOUT THE DRAWINGS AND SPECIFICATIONS.

TYPE	SYMBOL	SKETCH	DESCRIPTION AND MANUFACTURER
F1			FLUORESCENT 2-LAMP SURFACE MOUNTED LUMINAIRE WITH ACRYLIC WRAPAROUND LENS AND ELECTRONIC BALLAST. **MOUNTING HEIGHT:** CEILING, SURFACE **LAMP:** (2) F032 T8 4100K **VOLTAGE:** MVOLT **MANUFACTURER:** LITHONIA: VSL 2 32 MVOLT GEB10IS **SUBSTITUTIONS:** ◉ OR EQUAL ○ SUBJECT TO REVIEW ○ NO EQUAL
F1X			FLUORESCENT 2-LAMP SURFACE MOUNTED LUMINAIRE WITH ACRYLIC WRAPAROUND LENS AND ELECTRONIC BALLAST AND EMERGENCY BATTERY PACK. **MOUNTING HEIGHT:** CEILING, SURFACE **LAMP:** (2) F032 T8 4100K **VOLTAGE:** MVOLT **MANUFACTURER:** LITHONIA: VSL 2 32 MVOLT GEB10IS ELDW **SUBSTITUTIONS:** ◉ OR EQUAL ○ SUBJECT TO REVIEW ○ NO EQUAL
F2			FLUORESCENT 2-LAMP SURFACE MOUNTED LUMINAIRE WITH ACRYLIC WRAPAROUND LENS AND ELECTRONIC BALLAST. **MOUNTING HEIGHT:** CEILING, SURFACE **LAMP:** (2) F032 T8 4100K **VOLTAGE:** MVOLT **MANUFACTURER:** LITHONIA: LB 2 32 MVOLT GEB10IS **SUBSTITUTIONS:** ◉ OR EQUAL ○ SUBJECT TO REVIEW ○ NO EQUAL
F3			FLUORESCENT 4 FOOT, 1-LAMP OPEN STRIP FIXTURE WITH ELECTRONIC BALLAST AND WIRE GUARD. **MOUNTING HEIGHT:** CEILING **LAMP:** (2) F032 T8 4100K **VOLTAGE:** MVOLT **MANUFACTURER:** LITHONIA: C 1 32 MVOLT GEB10IS WGCUN NST **SUBSTITUTIONS:** ◉ OR EQUAL ○ SUBJECT TO REVIEW ○ NO EQUAL
L1			LED, ARCHITECTURAL WALL SCONCE, DARK BRONZE FINISH, SELF CONTAINED, WET LOCATION LISTED. **MOUNTING HEIGHT:** 10'-0" AFF **LAMP:** INCLUDED **VOLTAGE:** 10A700,40K **MANUFACTURER:** LITHONIA: WST LED 2 10A700/40K SR4 MVOLT DDBXD **SUBSTITUTIONS:** ◉ OR EQUAL ○ SUBJECT TO REVIEW ○ NO EQUAL
L1X			LED, ARCHITECTURAL WALL SCONCE, DARK BRONZE FINISH, SELF CONTAINED, WET LOCATION LISTED, 90 MINUTE BATTERY BACKUP. **MOUNTING HEIGHT:** 10'-0" AFF **LAMP:** INCLUDED **VOLTAGE:** 10A700,40K **MANUFACTURER:** LITHONIA: WST LED 2 10A700/40K SR4 MVOLT ELCW DDBXD **SUBSTITUTIONS:** ◉ OR EQUAL ○ SUBJECT TO REVIEW ○ NO EQUAL

								LOCATION:			**Equipment Room**		
DF	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	DESCRIPTION	DF
L	EXTERIOR BUILDING	100	20/1	1	2727			2	35	2627		M1
L	INTERIOR BUILDING	1030	20/1	3		3657		4	-	2627	Condensing Unit #1	M1
				5			2627	6	3	2627		M1
				7	1331			8	20	1331	ERV #1	M
				9		1331		10	2	1331		M
				11			720	12	20/1	720	GENERAL RECEPTS	R
				13	1400			14	20/1	1400	AIR BLADE	E
				15		1400		16	20/1	1400	AIR BLADE	E
				17			1080	18	20/1	1080	STORAGE RECEPTS	R
				19	325			20	20/1	325	WATER HEATER CIRC PUMP	E
				21		200		22	20/1	200	FLUSH VALVES	E
				23			0	24				
				25	0			26				
				27		0		28				
				29			0	30				
				31	0			32				
				33		0		34				
				35			0	36				
				37	0			38				
				39		0		40				
				41			0	42				
					5783	6588	4427					

AMPS:	100	**NEUTRAL BUS:**	100%	**CON. KVA:**	16.8
VOLTAGE:	208	**GROUND BUS:**	STANDARD	**CON. AMPS:**	46.6
PHASE / WIRE:	3-PH , 4W	**AIC RATING:**	10,000	**NET KVA:**	19.1
MAIN:	100/3	**NEMA RATING:**	1	**NET AMPS:**	52.9
LUGS:	MCB	**PANEL**		**Notes:**	
MOUNTING:	SURFACE	**LA**		Provide shunt trip main circuit breaker.	
BUS:	COPPER				
DOOR:	STANDARD				

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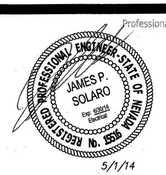

Date Revision

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Golden Eagle Little League Fields Expansion
Restroom/Storage Building

City of Sparks
6200 Touchdown Drive
Sparks, Nevada 89436

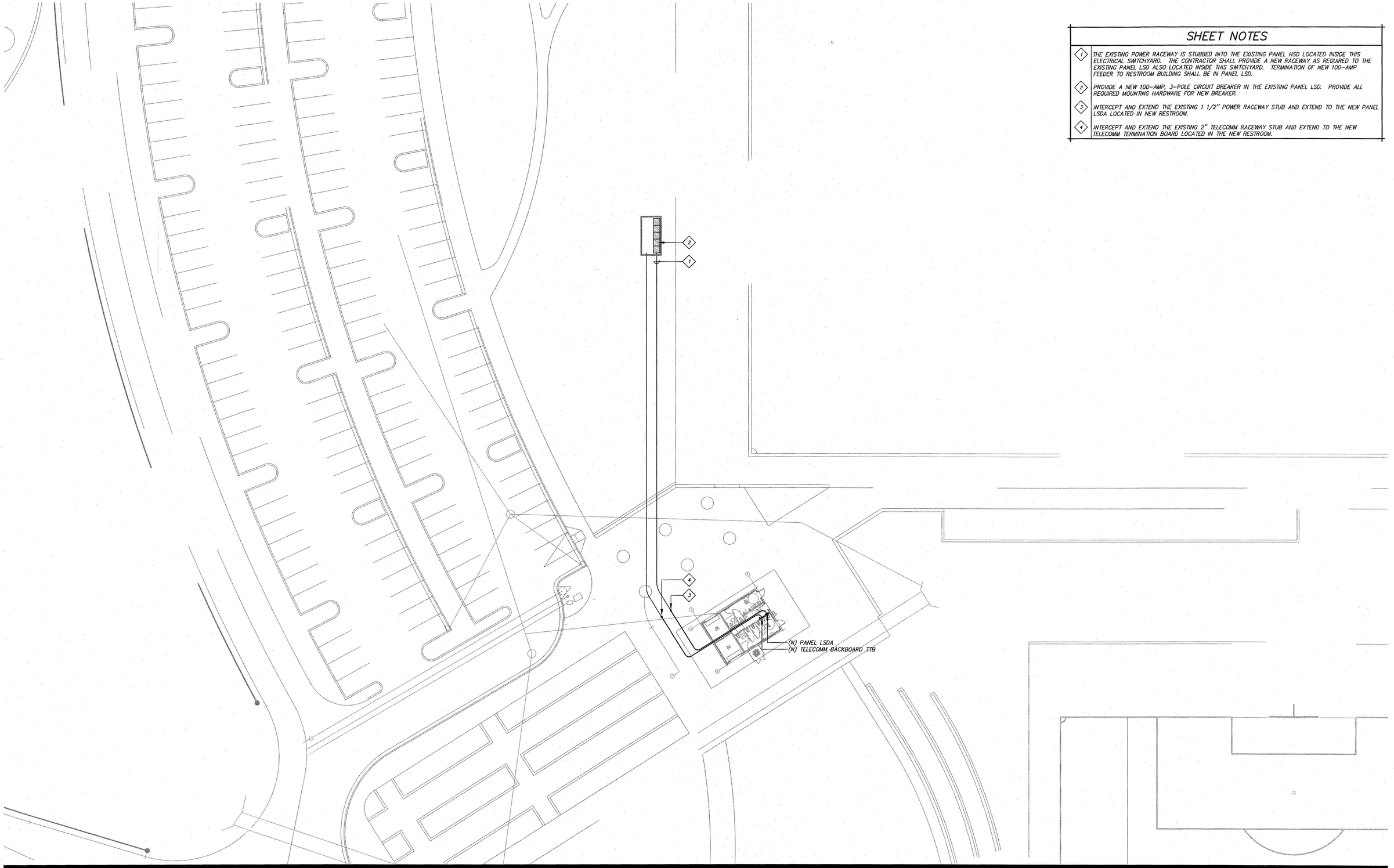
PANEL AND FIXTURE SCHEDULES, SINGLE LINE DIAGRAM

May 01, 2014
H+K Project No.: 1408

E002

SHEET NOTES

1. THE EXISTING POWER RACEWAY IS STUBBED INTO THE EXISTING PANEL HSD LOCATED INSIDE THIS ELECTRICAL SWITCHYARD. THE CONTRACTOR SHALL PROVIDE A NEW RACEWAY AS REQUIRED TO THE EXISTING PANEL LSD ALSO LOCATED INSIDE THIS SWITCHYARD. TERMINATION OF NEW 100-AMP FEEDER TO RESTROOM BUILDING SHALL BE IN PANEL LSD.
2. PROVIDE A NEW 100-AMP, 3-POLE CIRCUIT BREAKER IN THE EXISTING PANEL LSD. PROVIDE ALL REQUIRED MOUNTING HARDWARE FOR NEW BREAKER.
3. INTERCEPT AND EXTEND THE EXISTING 1 1/2" POWER RACEWAY STUB AND EXTEND TO THE NEW PANEL LSDA LOCATED IN NEW RESTROOM.
4. INTERCEPT AND EXTEND THE EXISTING 2" TELECOMM RACEWAY STUB AND EXTEND TO THE NEW TELECOMM TERMINATION BOARD LOCATED IN THE NEW RESTROOM.



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PROFESSIONAL ENGINEER STATE OF NEVADA REGISTERED No. 15516 JAMES P. SOLARO Exp. 6/30/14

5/1/14

Date Revision

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Golden Eagle Little League Fields Expansion Restroom/Storage Building

City of Sparks
6200 Touchdown Drive
Sparks, Nevada 89436

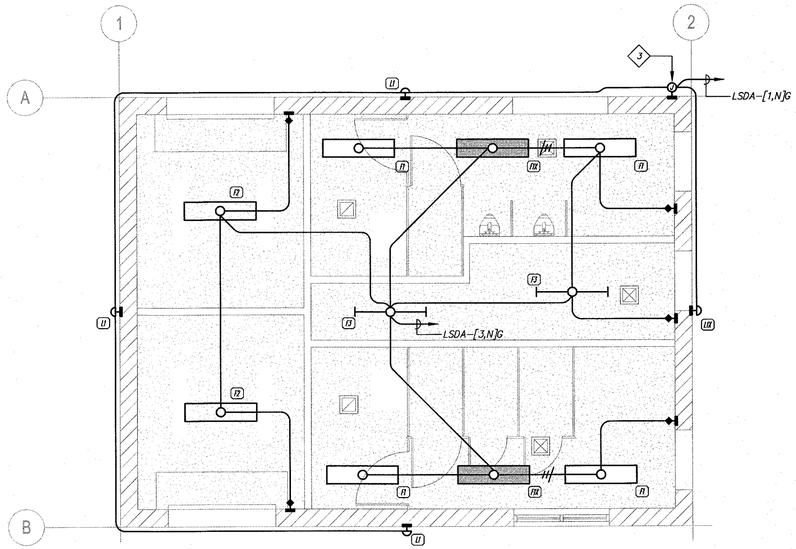
ELECTRICAL SITE PLAN

May 01, 2014
H+K Project No.: 1408

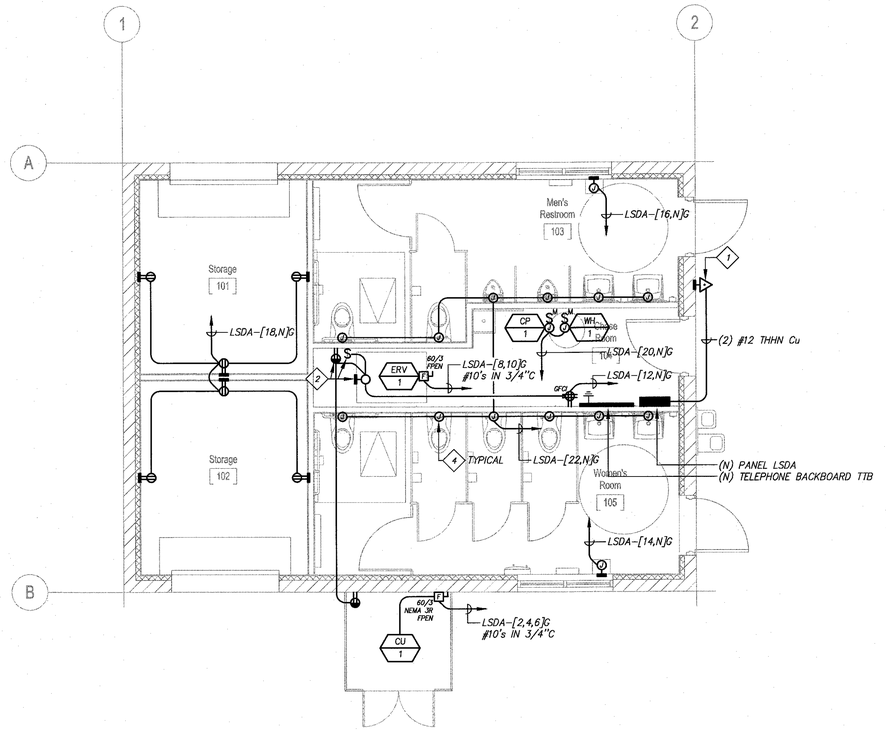
E101

SHEET NOTES

1. MOUNT SHUNT TRIP STATION AT 8'-6" AFF. VERIFY LOCATION WITH THE AHJ PRIOR TO ROUGH IN.
2. PROVIDE KEYLESS PORCELSDAIN FIXTURE BASE WITH 60-WATT FLUORESCENT LSDAMP AND WIRE GUARD ALONG WITH GFCI RECEPTACLE AND SWITCH FOR CONTROL AT ATTIC ACCESS LOCATION FOR MECHANICAL UNIT SERVICE.
3. MOUNT PHOTOCELL AT EAVE ON NORTH SIDE. PROVIDE SHADE TO PREVENT FALSE SHUTDOWN DUE TO ADJACENT FIXTURE.
4. PROVIDE JUNCTION BOX FOR AUTOMATIC VALVE CONTROL. COORDINATE INSTALLSDATION WITH THE MECHANICAL CONTRACTOR AND MECHANICAL DRAWINGS.



B | E201 — LIGHTING PLAN
SCALE: 1/4" = 1'-0"



A | E201 — POWER PLAN
SCALE: 1/4" = 1'-0"

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5/1/14

△ Date Revision

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ELECTRICAL
PLSDAN

May 01, 2014
H+K Project No.: 1408

E201