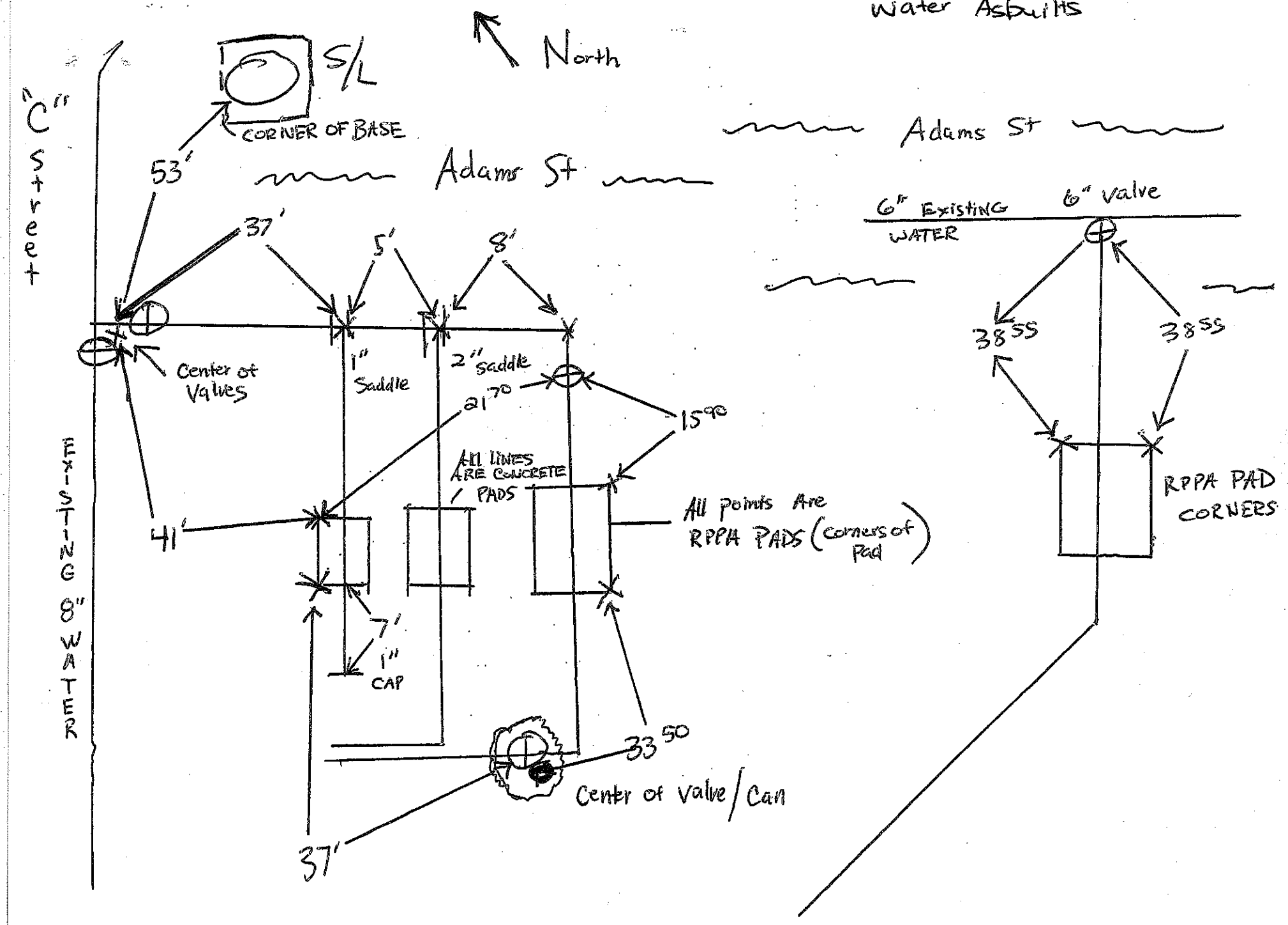
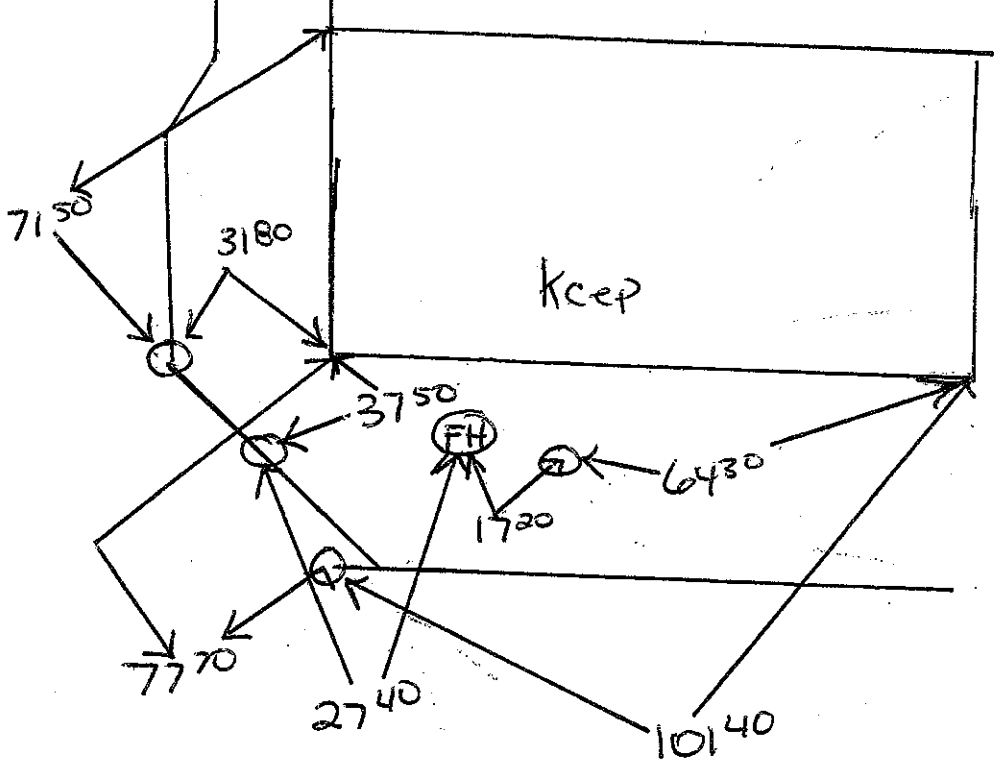
Water Asbuilts

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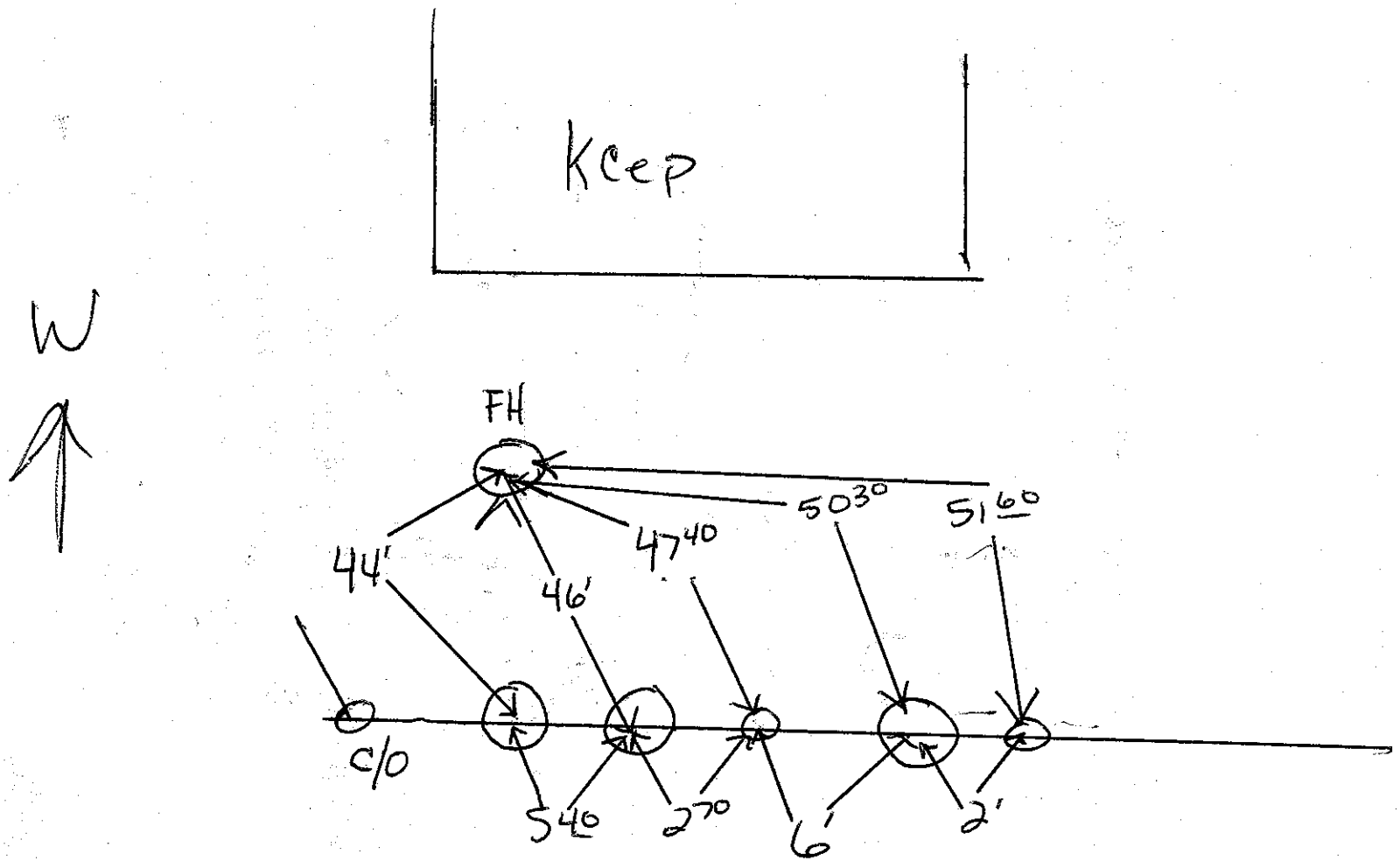
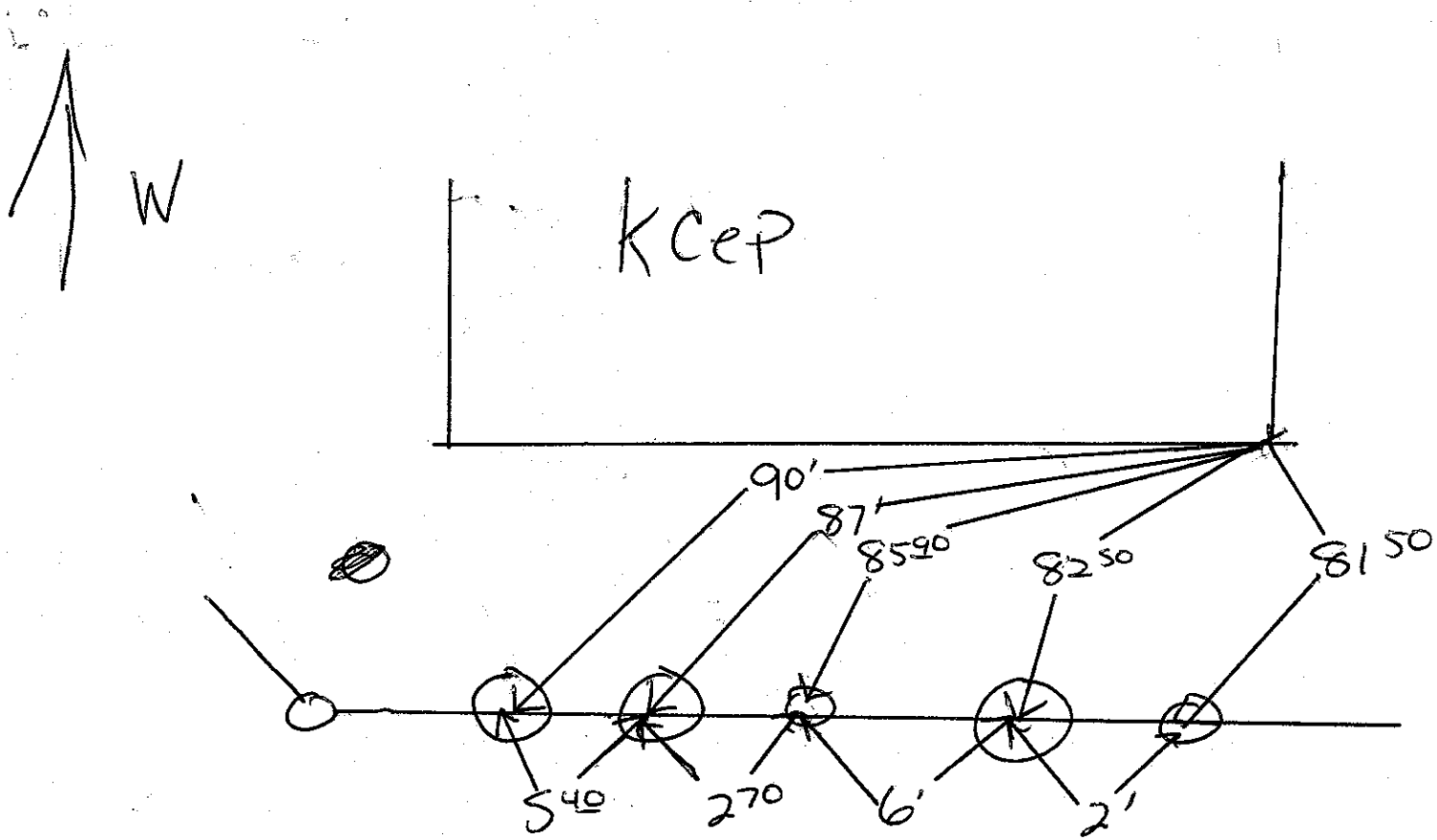
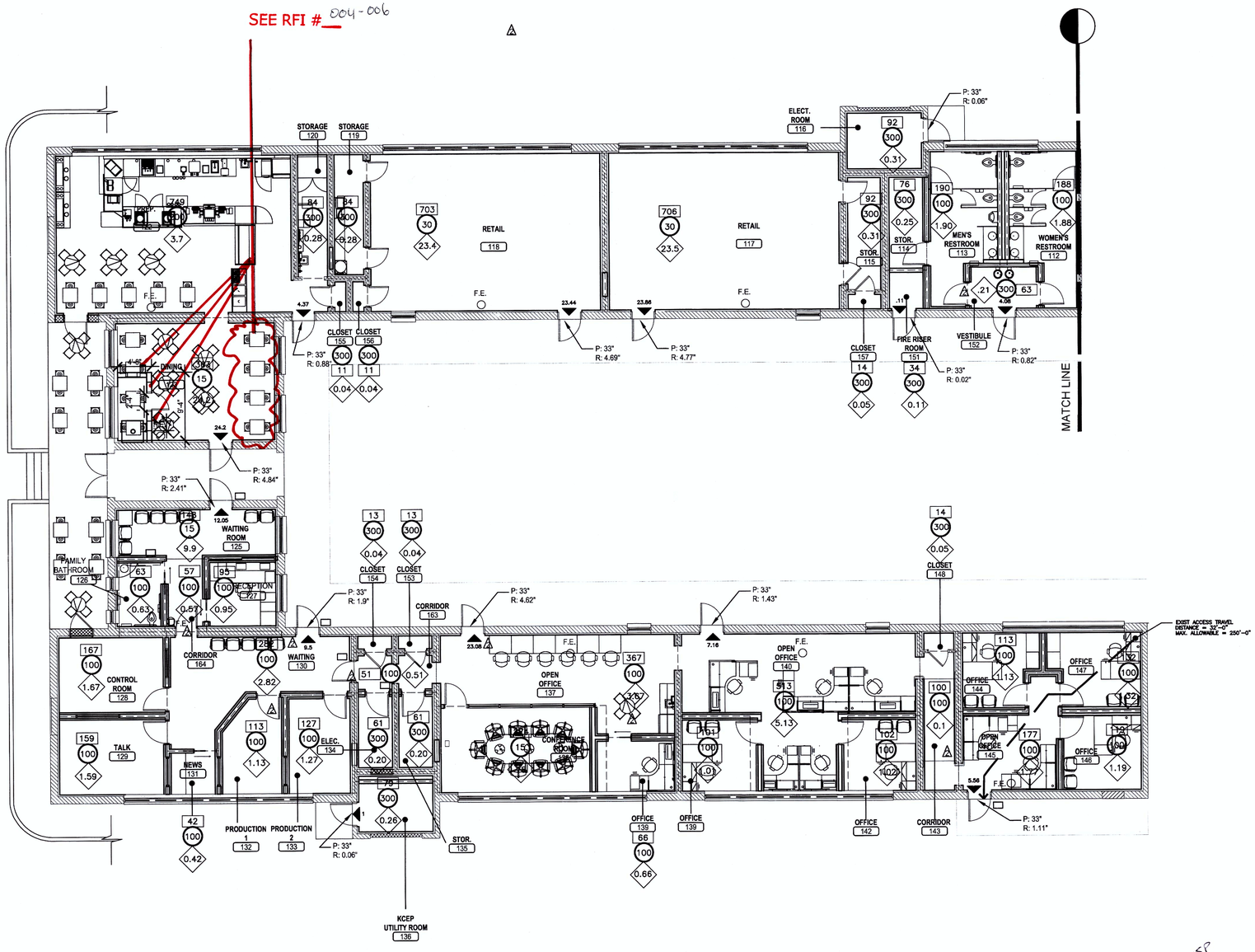


Grease Interceptor / Sample Box



Grease Interceptor / Sample Box



1948 ANNEX - ENLARGED EGRESS PLAN - PART A

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

1

EGRESS ANALYSIS

BASED ON THE 2012 I.B.C.

BUILDING EXITS REQUIRED

CRITERIA: ALL PORTIONS OF THE BUILDING OCCUPIED SIMULANEOUSLY

EGRESS WIDTH MULTIPLIER IS: .2" FOR OTHER EGRESS ELEMENTS & .3" FOR STAIRWAYS PER IBC T1005.1

OCCUPANT LOAD
276

EXITS REQUIRED
8

EXITS PROVIDED
8

MERCANTILE	NET AREA (SQ FT)	OCC. LOAD	# OF OCC.
RETAIL	4926	30	164.20
STORAGE	732	300	2.44
UTILITY / MECH.	312	300	1.04.
CORRIDOR	63	300	0.21
RESTROOM	378	100	3.78
PORCH	395	15	26.30
TOTAL	**6,806**		**197.97**

ASSEMBLY	NET AREA (SQ FT)	OCC. LOAD	# OF OCC.
DINING	363	15	24.20
PREP	749	200	3.70
STORAGE	190	300	0.63
TOTAL	**1,302**		**28.53**

BUSINESS	NET AREA (SQ FT)	OCC. LOAD	# OF OCC.
OFFICE/ WAITING/ RECEPTION	2823	100	28.23
CLOSET	159	300	0.53
UTILITY	78	300	0.26
RESTROOM	63	100	0.63
CORRIDOR	118	100	1.18
CONFERENCE	270	15	18.00
TOTAL	**3,511**		**48.83**

TOTAL SQ FT 11,619 **TOTAL OCCUPANTS 275.06**

CONSTRUCTION TYPE V-B

- X NET AREA
- (X) OCCUPANT LOAD FACTOR
- ◇X NUMBER OF OCCUPANTS
- ◀X EXITING QUANTITY
- ⟹ INDICATES EGRESS TRAVEL DISTANCE

GENERAL NOTES

1. FIRE EXTINGUISHER LOCATIONS TO BE FINALIZED BY THE LOCAL FIRE DEPARTMENT, LOCATIONS SHOWN ON THE DRAWINGS ARE FOR REFERENCE ONLY.

LEGEND

F.E.C INDICATES FIRE EXTINGUISHER CABINET
P: PROVIDED
R: REQUIRED

150 INSP

REVISIONS
1 PLAN CHECK REVISIONS - 9/4/14
1 PLAN CHECK REVISIONS - 10/7/14
1 PLAN CHECK REVISIONS - 12/3/14

ARCHITECT
kme ARCHITECTS
© KME Architects LLC. 2014
6795 WEST RUSSELL ROAD, SUITE 200
LAS VEGAS, NEVADA 89118
P: 702-888-2066 / F: 702-886-2069
WEB: www.kmearchitects.com
CONSULTANT

WESTSIDE SCHOOL HISTORIC REHABILITATION

330 W. WASHINGTON AVE.
LAS VEGAS, NEVADA 89106

CLV PLANS LIBRARY NUMBER: 715-175-1

BID NUMBER: 12.43221-TF

1948 ANNEX - ENLARGED EGRESS PLAN - PART A

STAMP
MELVIN D. GREEN REGISTERED No. 2249 ARCHITECT STATE OF NEVADA

AUGUST 4, 2014

CONSTRUCTION DOCUMENTS

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6535
FAX: (702) 382-3232
TDD: (702) 386-9108

DRAWN L.R.
FILE 2012-007
DATE 08-11-2014
SCALE NTS
BID NO 12.43221-TF
CLV DWG NO 715-175-1
SHT NO AE1.02

REVISED 8/14/13

REDUCED PRESSURE PRINCIPLE ASSEMBLY (1) 1" + (1) 2"

APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE U.D.A.C.S. PLATE No. 8. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACK FLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY LAS VEGAS VALLEY WATER DISTRICT.

ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY.

NOTE

OWNER RESPONSIBILITY TO PROVIDE SURVEY MONUMENTATION AS SHOWN AND TO REPLACE ALL SURVEY MONUMENTATION DAMAGED, DISTURBED, DESTROYED, OR OBSCURED DURING CONSTRUCTION.

EASEMENT WITH TREES, SHRUBS, DECORATIVE ROCKS, BLOCK WALL OR FENCE

TREES, SHRUBS OR DECORATIVE ROCKS, AND ANY BLOCK WALL OR OTHER FENCE MATERIAL, SHALL BE DESIGNED AND CONSTRUCTED AROUND THE EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS TO THE VAULT(S), BACKFLOW ASSEMBLIES, AND PIPING FROM THE ADJACENT RIGHT-OF-WAY.

REDUCED PRESSURE DETECTOR ASSEMBLY (RPDA) (2) 6"

THE REDUCED PRESSURE DETECTOR ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH THE UDACS PLATE NO. 56. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE ASSEMBLY HAS BEEN SUCCESFULLY TESTED BY LVVWD. ANY BLOCK WALL OR OTHER FENCE MATERISAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) SO AS TO ALLOW LVVWD DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF THE CONSTRUCTION.

DISCLAIMER NOTE

EXISTING UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDER- GROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION. ALL DISCREPANCIES MUST BE IMMEDIATELY REPORTED TO THE ENGINEER.
CALL BEFORE YOU DIG: 1-800-227-2600.

WATER QUANTITIES

ITEM	PUBLIC	PRIVATE
8" PVC WATER (FIRE)	69 LF	747 LF
6" PVC WATER (FIRE)	42 LF	219 LF
4" PVC WATER (FIRE)	--	45 LF
2" PVC WATER (DOM)	2" CU 15 LF	507 LF
2" PVC WATER (IRRIG)	1" CU 15 LF	19 LF
FIRE HYDRANT	--	2 EA

SEWER QUANTITIES

ITEM	PRIVATE
6" PVC SEWER	287 LF
6" PVC SEWER CLEANOUT	6 EA
4" PVC SEWER	463 LF
4" PVC SEWER CLEANOUT	3 EA

INSTALL BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKERS ADJACENT TO THE FIRE HYDRANT ON ALL APPROVED FIRE APPARATUS ACCESS ROADWAYS WITH HARD SURFACES, INCLUDING BOTH PUBLIC AND PRIVATE ROADS, STREETS, OR FIRE LANES.

? ON ROADWAYS WITH NO PARKING PERMITTED ON THE HYDRANT SIDE; EIGHT (8) FEET FROM THE FACE OF CURB ON THE HYDRANT SIDE

? ON ROADWAYS WITH PARKING PERMITTED ON THE HYDRANT SIDE; SIXTEEN (16) FEET FROM THE FACE OF CURB ON THE HYDRANT SIDE

FIRE HYDRANT RELOCATION AND LATERAL ABANDONMENT (EXISTING LATERAL TO BE ABANDONED)

WHERE SHOWN ON THE DRAWING, THE CONTRACTOR SHALL ABANDON THE EXISTING FIRE HYDRANT(S) BY REMOVING BOTH THE UPPER AND LOWER FIRE HYDRANT BARRELS SO THAT NO PORTION OF THE REMAINING FIRE HYDRANT ASSEMBLY IS CLOSER THAN TWO (2) FEET TO THE EXISTING GRADE. FIRE HYDRANTS SHALL BE TESTED PRIOR TO AND AFTER RELOCATION UNDER THE DIRECTION OF THE DISTRICT TO ENSURE QUALITY OF THE FIRE HYDRANT(S). THE EXISTING HYDRANT SHALL BE INSTALLED AT THE NEW LOCATION AS INDICATED ON THE DRAWING, IN ACCORDANCE WITH UD.A.C.S. PLATE 40. THE EXISTING VALVE SHALL BE ABANDONED IN A CLOSED POSITION, UNLESS SHOWN OTHERWISE, BY REMOVING A MINIMUM OF EIGHT (8) INCHES OF SAND OR TYPE I AGGREGATE BASE. THE REMAINING PORTION OF THE VALVE BOX SHALL BE FILLED WITH CONCRETE HAVING A COMPRESSIVE STRENGTH OF AT LEAST TWO THOUSAND (2000) PSI. THE LATERAL SHALL BE CUT WITHIN ONE (1) FOOT OF THE ABANDONED VALVE, OR AS SHOWN ON THE PLANS, AND CAPPED. WHERE A JOINT OR COUPLING IN THE EXISTING PIPE IS UNCOVERED AT THE CUT AND CAP LOCATION, THE INSTALLATION OF A PLUG MAY BE PERMITTED, WITH DISTRICT APPROVAL. A CONCRETE THRUST BLOCK SHALL BE INSTALLED AT ALL CUT AND CAP LOCATIONS IN ACCORDANCE WITH THE PROVISIONS OF U.D.A.C.S. PLATE No. 31.

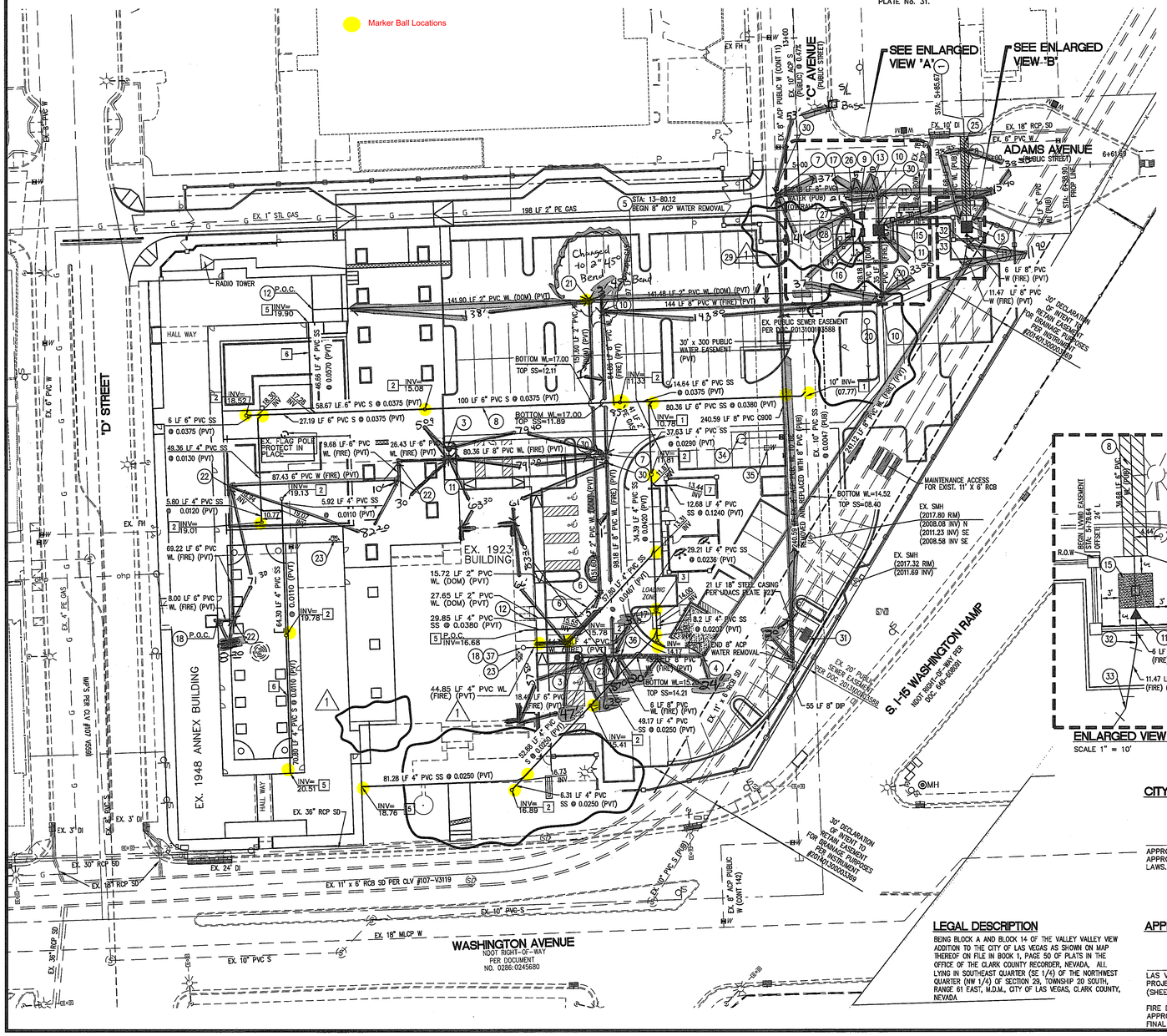
PROPOSED BLDG. FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS 1,625 GALLONS PER MINUTE @ 20 PSI RESIDUAL PRESSURE
BASED ON:

	EX. 1948 ANNEX BUILDING		EX. 1923 BUILDING	
SQUARE FOOTAGE	1st FLOOR	13,946 SF	1st FLOOR	5,834 SF
	TOTAL AREA	TOTAL SF	TOTAL AREA	TOTAL SF
LARGEST AREA BETWEEN 4-HOUR AREA SEPERATION WALLS:	N/A		N/A	
BUILDING HEIGHT:	26'		26'	
NUMBER OF STORIES:	1		1	
TYPE OF CONSTRUCTION:	VB		VB	
OCCUPANCY:	A-2, B, M		A-3	

FULL AUTOMATIC FIRE SPRINKLER SYSTEM: ☒YES ☐NO

REVIEWED BY: _____ DATE: _____
LAS VEGAS FIRE AND RESCUE


Marker Ball Locations
SEE ENLARGED VIEW "A"
SEE ENLARGED VIEW "B"
"D" STREET
ADAMS AVENUE (PUBLIC STREET)
WASHINGTON AVENUE NDOT RIGHT-OF-WAY PER DOCUMENT NO. 0286:0245680
S. I-15 WASHINGTON RAMP NDOT RIGHT-OF-WAY PER DOC. 945-080801
EX. 1923 BUILDING
EX. 1948 ANNEX BUILDING
RADIO TOWER
HALL WAY
EX. FLAG POLE PROTECT IN PLACE
LOADING ZONE
MAINTENANCE ACCESS FOR EXIST. 11' X 6' RCB
EX. SMH (2017.32 RIM) (2011.69 INV)
EX. SMH (2017.80 RIM) (2008.08 INV) N (2011.23 INV) SE (2008.58 INV SE
198 LF 2" PE GAS
EX. 1" STL GAS
EX. 8" ACP PUBLIC W (CONT 11)
EX. 10" ACP S
EX. 18" RCP, SD
EX. 6" PVC W
EX. 10" DI
EX. 8" PVC W (PUB)
EX. 8" PVC S
EX. 10" PVC S
EX. 18" MLCP W
EX. 36" RCP SD
EX. 30" RCP SD
EX. 24" DI
EX. 3' DI
EX. 4' DI
EX. 4" PVC S (PRIV)
EX. 4" HDP PERF'D W (CONT 16')
EX. 11' x 6' RCB SD PER CLV #107-V3119
EX. 11' x 6' RCB SD
EX. 20' PUBLIC SEWER EASEMENT PER DOC 20130701:3588
30' x 300 PUBLIC WATER EASEMENT (PVT)
EX. PUBLIC SEWER EASEMENT PER DOC 20131001:3588
30' DECLARATION OF INTENT TO RETAIN EASEMENT FOR PRIVATE PURPOSES PER INSTRUMENT #20140129:03359
Changed to a 45° Bend
Cut & Cap
Cut & Cap for Future Use
Cut & Cap for Future Use (Temp Cap)
Cut & Cap for Future Use (Perm Cap)
Abandon Existing Lateral
Abandon Existing Lateral & Valve
Abandon Existing Valve
Relocate Existing Hydrant
Relocate Existing Hydrant & Valve
Relocate Existing Valve
Remove Existing Hydrant
Remove Existing Hydrant & Valve
Remove Existing Valve
Remove Existing Meter & Return to LVVWD
Remove Existing Meter & Return to LVVWD & Abandon Existing Lateral
Remove Existing Water Line
Remove Existing Sewer Line
Remove Existing Gas Line
Remove Existing Street Light
Remove Existing Water or Sewer Cap
Remove Existing Fire Hydrant
Remove Existing Sawcut Line
Remove Existing Post Indicator Valve
Remove Existing Water Line & Sewer Line
Remove Existing Water Line & Gas Line
Remove Existing Sewer Line & Gas Line
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Remove Existing Water Line & Sewer Line & Gas Line & Abandon Existing Lateral & Valve & Hydrant & Meter & Return to LVVWD

GENERAL NOTES

1. CONTRACTOR TO MARK AND IDENTIFY WITHIN ACCESSIBLE CONCEALED FLOOR, FLOOR-CEILING, OR ATTIC SPACES THAT IDENTIFY WALL OF FIRE RESISTANCE OR SMOKE PROTECTED CONSTRUCTIONS.

⚠1

NOT USED 2

SCALE: N.T.S.

PER 2009 IBC RATED FIRE- RESISTANCE PERIOD FOR VARIOUS WALLS AND PARTITIONS.
TABLE 720.1(2) 3-1

MATERIAL NUMBER	ITEM	CONSTRUCTION	MINIMUM FINISHED THICKNESS FACE TO FACE (INCHES) 4hrs	3 hrs	2hrs	1hr
4. Solid Concrete[h,i]	3-1.1.[f,g]	Expanded slag or pumice	4.7	4.0	3.2	2.1
	3-1.2[f,g]	Expanded clay, shale or slate.	5.1	4.4	3.6	2.6
	3-1.3[f]	Limestone, cinders or air-cooled slag.	5.9	5.0	4.0	2.7
	3-1.4[g]	Calcareous or siliceous gravel.	6.2	5.3	4.2	2.8

FIRE RESISTANCE PERIOD FOR CMU WALLS 4

SCALE: N.T.S.

PER 2009 IBC RATED FIRE- MINIMUM PROTECTION FOR FLOOR AND ROOF SYSTEMS.
TABLE 720.1(2) 20-1.1

MATERIAL	ITEM NUMBER	CONSTRUCTION	4hrs.	3 hrs.	2hrs.	1hr	4hrs	3hrs	2hrs	1hr
21. Wood joist, wood I- joists, floor trusses and flat or pitched roof trusses spaced a maximum 24" o.c. with $\frac{1}{2}$" wood structural panel with exterior glue applied at right angles to top of joist or top chord of trusses with 8d nails. The wood structural panel thickness shall not be less than nominal $\frac{1}{2}$" nor less than required by Chapter 23.	21-1.1	Base layer $\frac{5}{8}$" Type x gypsum wallboard applied at right angles to joist or truss 24" o.c. with $1\frac{1}{4}$" Type S or Type W drywall screws 24" o.c. Face layer $\frac{5}{8}$" Type x gypsum wallboard or veneer base applied at right angles to joist or truss through base layer with $1\frac{7}{8}$" Type S and Type W drywall screws 12" o.c. at joints and intermediate joist or truss. Face layer Type G drywall screws placed 2" back on either side of face layer end joints, 12" o.c.				Varies				1-1/4

1 HOUR CEILING AND ROOF 5

SCALE: N.T.S.

⚠1 ⚠2

ONLINE CERTIFICATIONS DIRECTORY

System No. W-L-1039
XHEZ.W-L-1039
Through-penetration Firestop Systems

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Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

Through-penetration Firestop Systems

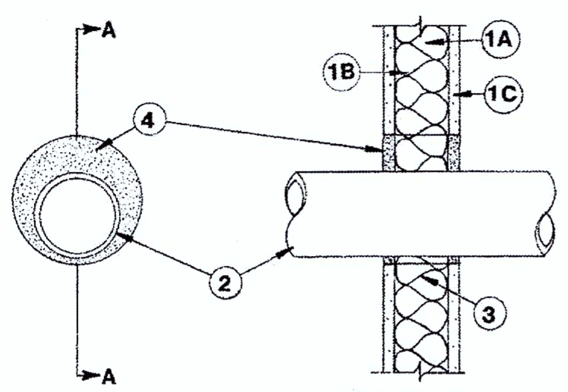
See General Information for Through-penetration Firestop Systems

System No. W-L-1039

March 24, 1999

F Rating — 1 Hr

T Rating — 0 and 1 Hr (See Item 2)



SECTION A-A

1. **Wall Assembly** — The fire rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. **Studs** — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.
   B. **Batts and Blankets*** — Nom 1-1/2 in. thick mineral wool batts friction fitted to fill interior of stud cavities.
   C. **Gypsum Board*** — The gypsum wallboard type, thickness, number of layers and orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening is 6 in.
2. **Through Penetrants** — One metallic pipe, conduit or tubing to be installed in either concentrically or eccentrically within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. **Steel Pipe** — Nom 4 in. diam (or smaller) Schedule 10 (or heavier) steel pipe. The annular space shall be min 1/4 to max 1-5/8 in. **When steel pipe is used T Rating is 0 hr.**
   B. **Conduit** — Nom 4 in. diam or smaller steel electrical metallic tubing or steel conduit. The annular space shall be min 1/4 to max 1-5/8 in. **When conduit is 1/2 in. diam or less, T Rating is 1 hr.**
   C. **Copper Tubing** — Nom 4 in. diam (or smaller) Type M (or heavier) copper tubing. The annular space shall be min 1/4 to max 1-5/8 in. **When copper tubing is used, T Rating is 0 hr.**
3. **Forming Material*** — Min 2-1/2 in. thickness of min 3.5 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Forming material to be recessed from both surfaces of wall to accommodate the required thickness of fill material.

THERMAFIBER INC — Type SAF

4. **Fill, Void or Cavity Material*** — Min 1/2 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. Dry mix material mixed at a rate of 2.1 parts dry mix to 1 part water by weight in accordance with the accompanying installation instructions.

UNITED STATES GYPSUM CO — Type FC

4A. **Fill, Void or Cavity Material*** — Not Shown — Two component fill material used as an alternate to Item 4. Min 1/2 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. Ready-mixed component mixed with accelerator component at a rate of 66 parts of ready-mixed component to 1 part of accelerator component by weight in accordance with the accompanying installation instructions.

UNITED STATES GYPSUM CO — Type RFC

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 1999-03-24

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FIRE RATING FOR WALL PENETRATION 1

⚠1

SCALE: N.T.S.

ONLINE CERTIFICATIONS DIRECTORY

Design No. L522
BXUV.L522
Fire-resistance Ratings - ANSI/UL 263

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Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

Design No. L522

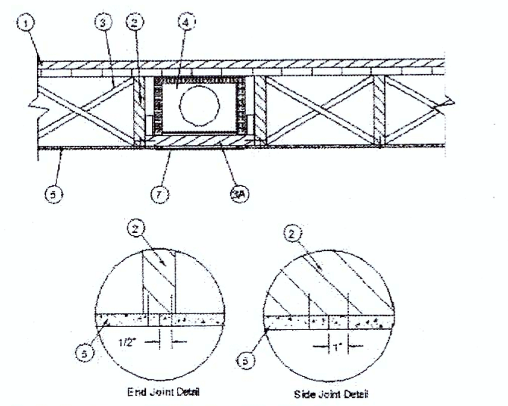
August 04, 2014

Unrestrained Assembly Rating — 1 Hr.

Finish Rating — 16 Min.

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



1. **Finish System** — The flooring system shall consist of one of the following:

System No. 1

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

Vapor Barrier — Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring — Min 1 by 4 in. T & G lumber installed perpendicular to trusses, or min 19/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered.

System No. 2

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

Vapor Barrier — Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring - Floor Topping Mixture* — Min 1-1/2 in. thickness of floor topping mixture having a min compressive strength of 1000 psi and a cast density of 100 plus or minus 5 pcf. Foam concentrate mixed 40:1 by volume with water and expanded at 100 psi through nozzle. Mixture shall consist of 1.4 cu feet of preformed foam concentrate to 94 lbs Type I Portland cement, 300 lbs of sand with 5-1/2 gal of water.

ELASTIZELL CORP OF AMERICA — Type FF.

System No. 3

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

Vapor Barrier — Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring - Floor Topping Mixture* — Min 1-1/2 in. thickness of floor topping mixture having a min compressive strength of 1000 psi and a cast density of 100 plus or minus 5 pcf. Foam concentrate mixed 40:1 by volume with water and expanded at 100 psi through nozzle. Mixture shall consist of 1.4 cu feet of preformed foam concentrate to 94 lbs Type I Portland cement, 62.5 lbs of Pea Gravel, 312.5 lbs of sand with 3-1/2 gal of water.

LITE-CRETE INC — Type I.

System No. 4

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

Vapor Barrier — Nom 0.010 in. thick commercial rosin-sized building paper.

Floor Mat Materials* — (Optional) — Floor mat material nom 5/64 in. (2mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1-1/4 in. of floor-topping mixture.

HACKER INDUSTRIES INC — Type Hacker Sound-Mat.

Alternate Floor Mat Materials - (Optional) — Floor mat material nom 1/4 in. (6mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1-1/4 in. (32mm) of floor-topping mixture.

HACKER INDUSTRIES INC — Type Hacker Sound-Mat II.

Alternate Floor Mat Materials - (Optional) — Floor mat material nom 1/8 in. (3mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1 in. (25mm)

HACKER INDUSTRIES INC — FIRM-FILL SCM 125

Alternate Floor Mat Materials - (Optional) — Floor mat material nom 1/4 in. (6mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1 in. (25mm)

HACKER INDUSTRIES INC — Type FIRM-FILL SCM 250, Quiet Qurl 55/025

Alternate Floor Mat Materials - (Optional) — Floor mat material nom 3/8 in. (10mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/4 in. (32mm)

HACKER INDUSTRIES INC — FIRM-FILL SCM 400, Quiet Qurl 60/040

Alternate Floor Mat Materials - (Optional) — Floor mat material nom 3/4 in. (19mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/2 in. (38mm)

HACKER INDUSTRIES INC — Type FIRM-FILL SCM 750, Quiet Qurl 65/075

Metal Lath (Optional) — For use with 3/8 in. (10 mm) floor mat materials, 3/8 in. expanded steel diamond mesh, 3.4 lbs/sq yd placed over the floor mat material. Hacker Floor Primer to be applied prior to the placement of the metal lath. When metal lath is used, floor topping thickness a nom 1-1/4 in. over the floor mat.

Finish Flooring - Floor Topping Mixture* — Min 1 in. thickness of floor topping mixture having a min compressive strength of 1100 psi. Mixture shall consist of 6.8 gal of water to 80 lbs of floor topping mixture to 1.9 cu ft of sand.

HACKER INDUSTRIES INC — Firm-Fill Gypsum Concrete, Firm-Fill 2010, Firm-Fill 3310, Firm-Fill 4010, Firm-Fill High Strength, Gyp-Span Radiant

System No. 5

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

Vapor Barrier — Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring - Floor Topping Mixture* — Min 1 in. thickness of floor topping mixture having a min compressive strength of 1000 psi. Mixture shall consist of 5 to 8 gal of water to 80 lbs of floor topping mixture to 2.1 cu ft of sand.

ULTRA QUIET FLOORS — Types UQF-A, UQF-Super Blend, UQF-Plus 2000

System No. 6

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

Vapor Barrier — Nom 0.010 in. thick commercial rosin-sized building paper.

Floor Mat Materials* — (Optional) - Nom 1/4 in. thick floor mat material loose laid over the subfloor. Maxxon Floor Primer to be applied to the surface of the mat prior to the floor topping placement. Floor topping thickness shall be as specified under **Floor Topping Mixture.**

MAXXON CORP — Type Acousti-Mat I, Acousti-Mat II, Acousti-Mat II HP.

Alternate Floor Mat Materials* - (Optional) — Nom 0.8 in. thick floor mat material loose laid over the subfloor with Crack Suppression Mat (CSM) loose laid over the floor mat material. Floor topping thickness shall be min 1-1/2 in.

MAXXON CORP — Type Acousti-Mat 3, Acousti-Mat 3 HP, Crack Suppression Mat (CSM)

Metal Lath (Alternate to Crack Suppression Mat (CSM)) — 3/8 in. expanded galvanized steel diamond mesh, 3.4 lbs/sq yd loose laid over the floor mat material. Floor topping thickness shall be min 1-1/2 in.

Fiber Glass Mesh Reinforcement — (Optional) — Maxxon Corp's "Maxxon Reinforcement (MR)" for use with or as an alternate to CSM or metal lath reinforcement, the materials consists of a plastic coated non-woven fiber glass mesh grid intended to suppress cracks in the Floor Topping Mixture.

Alternate Floor Mat Materials* - (Optional) — Nom 0.4 in. thick floor mat material loose laid over the subfloor. Maxxon Floor Primer to be applied to the surface of the mat prior to the floor topping placement. Floor topping thickness shall be min 1 in. Floor topping thickness shall be min 3/4 in. when used with Crack Suppression Mat (CSM), Metal Lath, or Maxxon Reinforcement (MR).

MAXXON CORP — Type Enkasonic 9110, Enkasonic 9110 HP.

Alternate Floor Mat Materials* - (Optional) — Nom 0.2 in. thick floor mat material loose laid over the subfloor. Maxxon Floor Primer may be applied to the surface of the mat prior to the floor topping placement. Floor topping thickness shall be as specified under **Floor Topping Mixture.**

MAXXON CORP — Type Acousti-Mat LP-R

Metal Lath (Optional) — For use with floor mat materials, 3/8 in. expanded galvanized steel diamond mesh, 3.4 lbs/sq yd or Maxxon Corp. UL Classified Crack Suppression Mat (CSM) loose laid over the floor mat material. Floor topping thickness shall be min 1 in.

MAXXON CORP — Type Crack Suppression Mat (CSM)

Fiber Glass Mesh Reinforcement — (Optional) — Maxxon Corp's "Maxxon Reinforcement (MR)" for use with or as an alternate to CSM or metal lath reinforcement, the materials consists of a plastic coated non-woven fiber glass mesh grid intended to suppress cracks in the Floor Topping Mixture.

Finish Flooring - Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1000 psi. Mixture shall consist of 3 to 7 gal of water to 80 lbs of floor topping mixture to 1.0 to 2.1 cu ft of sand.

MAXXON CORP — Type D-C, CC, GC2000, L-R, T-F, CT.

System No. 7

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

Vapor Barrier — Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Floor - Mineral and Fiber Board* — Min 1/2 in. thick, supplied in sizes ranging from 3 ft by 4 ft to 8 ft by 12 ft. All joints to be staggered a min of 12 in. with adjacent sub-floor joints.

HOMASOTE CO — Type 440-32 Mineral and Fiber Board

System No. 8

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

Vapor Barrier — Nom 0.010 in. thick commercial rosin sized building paper.

Finish Flooring - Floor Topping Mixture* — Min 1-1/2 in. thickness of floor topping mixture having a min compressive strength of 1000 psi and a cast density of 100 plus or minus 5 pcf. Foam concentrate mixed 40:1 by volume with water and expanded at 100 psi through nozzle. Mixture shall consist of 1.2 cu feet of preformed foam concentrate to 94 lbs Type I Portland cement, 300 lbs of sand with 5-1/2 gal of water.

AERIX INDUSTRIES — Floor Topping Mixture

System No. 9

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

Vapor Barrier — Nom 0.010 in. thick commercial rosin sized building paper.

Floor Mat Materials* — (Optional) - Nom 1/4 in. thick floor mat material loose laid over the subfloor. Maxxon Floor Primer to be applied to the surface of the mat prior to the floor topping placement. Floor topping thickness shall be as specified under **Floor Topping Mixture.**

MAXXON CORP — Type Acousti-Mat I, Acousti-Mat II, Acousti-Mat II HP.

Alternate Floor Mat Materials* - (Optional) — Nom 0.8 in. thick floor mat material loose laid over the subfloor with Crack Suppression Mat (CSM) loose laid over the floor mat material. Floor topping thickness shall be min 1-1/2 in.

MAXXON CORP — Type Acousti-Mat 3, Acousti-Mat 3 HP, Crack Suppression Mat (CSM)

Metal Lath (Alternate to Crack Suppression Mat (CSM)) — 3/8 in. expanded galvanized steel diamond mesh, 3.4 lbs/sq yd loose laid over the floor mat material. Floor topping thickness shall be min 1-1/2 in.

Fiber Glass Mesh Reinforcement — (Optional) — Maxxon Corp's "Maxxon Reinforcement (MR)" for use with or as an alternate to CSM or metal lath reinforcement, the materials consists of a plastic coated non-woven fiber glass mesh grid intended to suppress cracks in the Floor Topping Mixture.

Alternate Floor Mat Materials* - (Optional) — Nom 0.4 in. thick floor mat material loose laid over the subfloor. Maxxon Floor Primer to be applied to the surface of the mat prior to the floor topping placement. Floor topping thickness shall be min 1 in. Floor topping thickness shall be min 3/4 in. when used with Crack Suppression Mat (CSM), Metal Lath, or Maxxon Reinforcement (MR).

MAXXON CORP — Type Enkasonic 9110, Enkasonic 9110 HP.

Alternate Floor Mat Materials* - (Optional) — Nom 0.2 in. thick floor mat material loose laid over the subfloor. Maxxon Floor Primer may be applied to the surface of the mat prior to the floor topping placement. Floor topping thickness shall be as specified under **Floor Topping Mixture.**

MAXXON CORP — Type Acousti-Mat LP-R

Metal Lath (Optional) — For use with floor mat materials, 3/8 in. expanded galvanized steel diamond mesh, 3.4 lbs/sq yd or Maxxon Corp. UL Classified Crack Suppression Mat (CSM) loose laid over the floor mat material. Floor topping thickness shall be min 1 in.

MAXXON CORP — Type Crack Suppression Mat (CSM)

Fiber Glass Mesh Reinforcement — (Optional) — Maxxon Corp's "Maxxon Reinforcement (MR)" for use with or as an alternate to CSM or metal lath reinforcement, the materials consists of a plastic coated non-woven fiber glass mesh grid intended to suppress cracks in the Floor Topping Mixture.

Finish Flooring - Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1200 psi. Mixture shall consist of 4 to 7 gal of water mixed with 80 lbs of floor topping mixture and 1.4 to 1.9 cu ft of sand.

RAPID FLOOR SYSTEMS — Type RF, RFP, RFU, RFR, Orecrete.

System No. 10

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring — Floor Topping Mixture* — Min 1 in. thickness of floor topping mixture, having a min compressive strength of 2100 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

BMI PRODUCTS OF NORTHERN ILLINOIS INC — Maxit 493

System No. 11

Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Vapor Barrier — (Optional) - Commercial asphalt saturated felt, 0.030 in. thick.

Vapor Barrier — (Optional) - Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring* — Min 3/4 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance. See Floor- and Roof-Topping Mixtures (CCOX) category for names of Classified Companies.

Floor Mat Materials* — (Optional) - Nom. 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 55/025 and Quiet Qurl 55/025 N

Alternate Floor Mat Materials* — (Optional) - Floor mat material Nom. 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 60/040 and Quiet Qurl 60/040 N

Alternate Floor Mat Materials* — (Optional) - Floor mat material Nom. 3/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 1/2 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 65/075, Quiet Qurl 65/075 N

Alternate Floor Mat Materials* — (Optional) - Floor mat material Nom. 1/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 52/013 and Quiet Qurl 52/013 N

Alternate Floor Mat Materials* — (Optional) - Floor mat material Nom. ¼ in. entangled net core with a compressible fabric attached to the bottom loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.

KEENE BUILDING PRODUCTS CO INC — Quiet Qurl 55/025 MT and Quiet Qurl 55/025 N MT

System No. 12

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

Vapor Barrier — Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

ALLIED CUSTOM GYPSUM — Accu-Crete, AccuRadiant, AccuLevel G40 and AccuLevel SD30

Floor Mat Material* — (Optional) - Floor mat material nominal 2 - 9.5 mm thick loose laid over the subfloor. Floor topping shall be a min of 1 in.

ALLIED CUSTOM GYPSUM — Type AccuQuiet P80, Type AccuQuiet C40, AccuQuiet D13, Type AccuQuiet RSM 20, Type AccuQuiet RSM 32, Type AccuQuiet RSM 48, Type AccuQuiet RSM 64, Type AccuQuiet RSM 120, and Type AccuQuiet D-18.

System No. 13

Subflooring — Min 23/32 in. thick T&G wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panels to be perpendicular to the trusses with end joints staggered 4 ft. Panels secured to trusses with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Gypsum Board* — One layer of nom 5/8 in. thick, 4 ft wide gypsum board, installed with long dimension perpendicular to joists. Gypsum board secured with 1 in. long No. 6 Type W bugle head steel screws spaced 12 in. OC and located a min of 1-1/2 in. from side and end joints. The joints of the gypsum board are to be staggered a minimum of 12 inches from the joints of the subfloor.

GEORGIA-PACIFIC GYPSUM L L C — Type DS

Floor Mat Materials* — (As an alternate to the single layer gypsum board) - Floor mat material loose laid over the subfloor.

MAXXON CORP — Type Acousti-Mat I, Acousti-Mat II, Acousti-Mat II HP, Acousti-Mat 3, Acousti-Mat 3 HP, Enkasonic 9110, Enkasonic 9110 HP, Acousti-Mat LP-R.

Gypsum Board* — (For use when floor mat is used) Two layers of nom 5/8 in. thick, 4 ft wide gypsum board, installed with long dimension perpendicular to joists on top of the floor mat material. Gypsum board secured to each other with 1 in. long No. 6 Type G bugle head steel screws spaced 12 in. OC and located a min of 1-1/2 in. from side and end joints. The joints of the gypsum board are to be staggered a minimum of 12 inches in between layers and from the joints of the subfloor.

GEORGIA-PACIFIC GYPSUM L L C — Type DS

System No. 14

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

Vapor Barrier — (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring - Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a minimum compressive strength of 1800 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

UNITED STATES GYPSUM CO — Types LRK, HSLRK, CSD

Floor Mat Materials* — (Optional) - Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.

UNITED STATES GYPSUM CO — Types SAM, LEVELROCK® Brand Sound Reduction Board, LEVELROCK® Brand Floor Underlayment SRM-25

System No. 15

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

Vapor Barrier — Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring - Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

DEPENDABLE LLC — GSL M3.4, GSL K2.6 and GSL RH

Floor Mat Materials* — (Optional) - Nom. 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 55/025 and Quiet Qurl 55/025 N

Alternate Floor Mat Materials* — (Optional) - Floor mat material Nom. 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 60/040 and Quiet Qurl 60/040 N

Alternate Floor Mat Materials* — (Optional) - Floor mat material Nom. 3/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1-1/2 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 65/075, Quiet Qurl 65/075 N

Alternate Floor Mat Materials* — (Optional) - Floor mat material Nom. 1/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 52/013 and Quiet Qurl 52/013 N

Alternate Floor Mat Materials* — (Optional) - Floor mat material Nom. ¼ in. entangled net core with a compressible fabric attached to the bottom loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.

KEENE BUILDING PRODUCTS CO INC — Quiet Qurl 55/025 MT and Quiet Qurl 55/025 N MT

2. **Wood Joists** — Min 2 by 10 in., spaced 16 in. OC and effectively fireblocked in accordance with local codes.

3. **Cross Bridging** — Min 1 by 3 in. or min 2 by 10 in. solid blocking.

3A. **Horizontal Bridging** — Used in lieu of Item 3 in same joist bay as ceiling damper (Item 4), when ceiling damper is employed. Wood 2 by 4 in. secured between joists with nails.

4. **Ceiling Damper*** — (Optional) - Max nom area shall be 190 sq in. Max rectangular size shall be 12 in. wide by 16-1/2 in. long. Max height of damper shall be 8-3/4 in. Aggregate damper openings shall not exceed 99 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille (Item 7) shall be installed in accordance with installation instructions.

AIR KING VENTILATION PRODUCTS — Series AS, Series AK

AIR MANAGEMENT INC — Models AMI-50-CD-WG-B, AVT-50-CD-WG-B/VC

CENTRAL VENTILATION SYSTEMS CO L L C — Models C-S/R-HC(-A), C-RD-HC(-A)

GREENHECK FAN CORP — Model CRD-1WJ

METAL INDUSTRIES INC — Models CD-S/R-HC, CD-S/R-HC-A, CD-RD-HC, CD-RD-HC-A

METROPOLITAN AIR TECHNOLOGY — Model C-S/R-HC

NCA MFG INC — Models CD-S/R-HC, CD-S/R-HC-A, CD-RD-HC, CD-RD-HC-A

PRICE INDUSTRIES LTD — Models CD-S/R-HC, CD-RD-HC

RUSKIN COMPANY — Model CFD7

UNITED ENERTECH CORP — Models C-S/R-HC(-A), C-RD-HC(-A)

5. **Gypsum Board*** — Nom 1/2 in. thick, 48 in. wide gypsum board, installed with long dimension perpendicular to joists. Gypsum board secured with 1-3/4 in. long 5d nails spaced 6 in. OC. Nails located 1/2 and 1 in. from butted ends and side joints, respectively. End joints of gypsum board in adjacent courses staggered.

AMERICAN GYPSUM CO — Type AG-C.

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFC-C/A.

GEORGIA-PACIFIC GYPSUM L L C — Types 5, DAFC, 1G C

NATIONAL GYPSUM CO — Type FSK-1, FSK-C, FSK-G, FSW-1, FSW-C or FSW-G.

6. **Finishing System** — (Not Shown) - Vinyl, dry or premixed joint compound, applied in two coats to joints and screw-heads. Nom 2 in. wide paper tape embedded in first layer of compound over all joints. As an alternate, nom 3/32 in. thick veneer plaster may be applied to the entire surface of gypsum board.

7. **Grille** — Steel grille, installed in accordance with the installation instructions provided with the ceiling damper

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2014-08-04

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Riser Detail 1823
Riser Detail 1998
SEE RFI #021-001

1 HOUR FLOOR @ FIRE RISER ROOM 3

SCALE: N.T.S.

⚠1

NOT USED 6

SCALE: N.T.S.

⚠2

⚠1

NOT USED 7

SCALE: N.T.S.

⚠1 ⚠2

NOT USED 8

SCALE: N.T.S.

REVISIONS

⚠1 PLAN CHECK REVISIONS - 9/4/14
⚠2 PLAN CHECK REVISIONS - 10/7/14
⚠3 PLAN CHECK REVISIONS - 12/3/14

ARCHITECT

kme ARCHITECTS ®

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6765 WEST RUSSELL ROAD, SUITE 200
LAS VEGAS, NEVADA 89118
P: 702-888-2088 / F: 702-888-2089
WEB: www.kmearchitects.com

CONSULTANT

WESTSIDE SCHOOL HISTORIC REHABILITATION
330 W. WASHINGTON AVE.
LAS VEGAS, NEVADA 89106

BID NUMBER: 12.43221-TF

CLV PLANS LIBRARY NUMBER: 715-175-1

FIRE RATED DETAILS AND SPECIFICATIONS

STAMP

MELVIN D. GREEN REGISTERED No. 2249 ARCHITECT STATE OF NEVADA

AUGUST 4, 2014

CONSTRUCTION DOCUMENTS

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6535
FAX: (702) 382-3232
TDD: (702) 386-9108

DRAWN	L.R.
FILE	2012-007
DATE	08-11-2014
SCALE	NTS
BID NO	12.43221-TF
CLV DWG NO	715-175-1
SHT NO	F4.01

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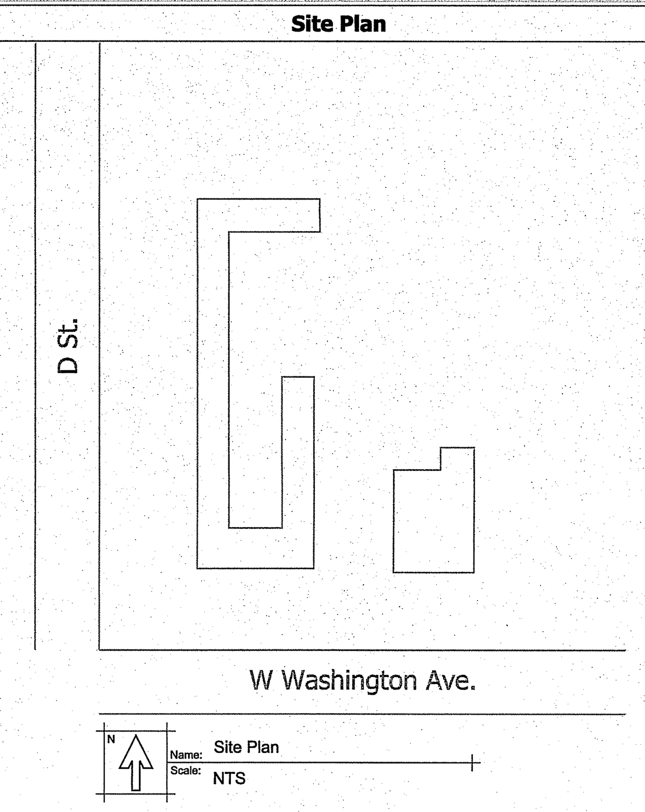
REVISED 8/14/13

Site Plan



Addressing Legend

D1.1
- Device Address (on SLC/IDC loop)
- SLC/IDC Loop Number (on FACP)
- D=SLC Detector, M=SLC Module, I-IDC Device

EOL X-#
- End of Line Resistor
- Circuit Number
- *Circuit Type

Circuit types:
The following abbreviations are used when circuits are sequentially numbered:
- N=Notification Appliance Circuit

The following abbreviations are used when circuits are not sequentially numbered (when describing EOL resistors, and circuits):
- IDC=Initiating Device Circuit from a nearby Input Module

N1.1.1
- Device Number (on circuit)
- Circuit Number (on power supply)
- Power Supply Number (Circuits from the FACP do not have this number)
- N=Notification Appliance

Operations Matrix

System outputs: Control Unit Annunciation (columns 1–4); Supplementary Notification (columns 5–10); Required Fire Safety Control (columns 11–13)

System Inputs	Actuate Common Alarm Signal Audible, and Visual Indicator	Actuate Common Supervisory Signal Audible, and Visual Indicator	Actuate Common Trouble Signal Audible, and Visual Indicator	Actuate Alarm Indicator	Actuate Evacuation Signals	Display/Print Change of Status	Transmit Water Flow Signal to Supervising Station	Transmit Fire Alarm Signal to Supervising Station	Transmit Supervisory Signal to Supervising Station	Transmit Trouble Signal to Supervising Station	Activate Horn/strobe at Fire Department Response Point	Shutdown all HVAC Units in Building 1923	Shutdown all HVAC Units in Building 1948
Manual Fire Alarm Box	●			●	●	●		●			●		
Area Smoke Detector	●			●	●	●		●			●		
Basement Heat Detector (3)	●			●	●	●		●			●		
Building 1923 Duct Mount Smoke Detector		●				●			●			●	
Building 1948 Duct Mount Smoke Detector		●				●			●				●
Water Flow Switch	●			●	●	●	●				●		
High Pressure Switch		●				●			●				
Low Pressure Switch		●				●			●				
Sprinkler Control Valve		●				●			●				
Fire Alarm AC Power Failure			●			●				●			
Fire Alarm System Low Battery			●			●				●			
Open Circuit			●			●				●			
Ground Fault			●			●				●			
SLC / NAC Short			●			●				●			

Sheet Index

Sheets Affected by Revision: 9	8	7	6	5	4	3	2	1	-	Sheet Number	Sheet	File Name	Sheet Description
						●	●	●	●	1	FA-0.00	FA001	Cover Page
						●	●	●	●	2	FA-0.10	FA002	Calculations, Riser Diagram, & Details
						●	●	●	●	3	FA-1.00	FA003	Fire Alarm Plan

Fire Alarm Symbol Legend

Symbol legend counts reflect devices installed in this scope of work only.

Symbol	Count	Description
FACP	1	• Fire Alarm Control Panel • Surface Mount - Signal Fire provided back box • Mircom FX-2003-6DS
FSA	2	• Fire System Annunciator • Surface Mount - Signal Fire provided back box • Mircom RAX-LCD
PS-1	1	• Power Supply Panel • Surface Mount - Signal Fire provided back box • Firelite FCPS-24FS6 (3)
C P	1	• Smoke Detector (Photo) with Standard Base • Surface Mount - 4" square box with 3" o-ring • Mircom 2251B with B210LP
C R/F	1	• Heat Detector (Fixed Temp & Rate of Rise) with Standard Base • Surface Mount - 4" square box with 3" o-ring • Mircom 5251RB with B210LP
	13	• Duct Detector Housing with Smoke Detector and Sampling Tube • Surface Mount - Signal Fire supplied back box • Mircom DNR with 2251BR and ST-5
P	1	• Double Action Pull Station • Surface Mount - 4" square deep box with single gang ring • Mircom MS-710ADU
M AIM	6	• Mini Addressable Input Module • Surface Mount - 4" square deep box with cover plate • Mircom M501M
D AIM	2	• Dual Addressable Input Module • Surface Mount - 4" square deep box with 4" extension ring • Mircom M500DM
AOM	15	• Addressable Output Module • Surface Mount - 4" square deep box with 4" extension ring • Mircom M500R
S AOM	0	• Addressable Supervised Output Module • Surface Mount - 4" square deep box with 4" extension ring • Mircom M500S
WP 75	2	• Weatherproof Wall Mount Horn/strobe • Exterior Mount - Signal Fire provided back box • Wheelock ASWP-2475W-FR with WPBB-R
##	36	• Ceiling Mount Horn/strobe • Surface Mount - 4" square deep box with double gang ring • Eaton HSWC
WP 30	1	• Weatherproof Ceiling Mount Horn/strobe • Exterior Mount - Signal Fire provided back box • Wheelock ASWP-2475W-FR with WPBB-R
	7	• Ceiling Mount Horn • Surface Mount - 4" square deep box with double gang ring • Eaton HNWC
RI	13	• Remote Indicator • Surface Mount - 4" square deep box with single gang ring • System Sensor RA100Z
KNOX	1	• Knox Box • Surface Mount - Signal Fire provided back box • Approved Manufacturer and Model
		• Tamper Switch • By others
		• Water Flow Switch • By others
H		• High Pressure Switch • By others
L		• Low Pressure Switch • By others
J		• J-Box
		• Fire Alarm System Circuiting • 3/4" EMT Conduit • No Deck-L's, 90° sweeps only
#		• Delta Symbol - Indicates current revision changes • #=Revision Number • Not applicable on first submittal

Fire Alarm Wire Legend

Application	Abbreviation	Symbol	Wire Size	Insulation Type	Wire Type	Wire Configuration	Circuit Class	Quantity
Addressable Signaling Line Circuit	SLC	A	18 AWG	TFN	Solid	Twisted, Unjacketed	B	2
Horn & Strobe Notification Appliance Circuit	NAC	B	14 AWG	THHN	Solid	Unjacketed	B	2
Fire System Annunciator Data Circuit	FSA	C	18 AWG	TFN	Solid	Twisted, Unjacketed	B	2
Fire System Annunciator Power Circuit	FSA	D	14 AWG	THHN	Solid	Unjacketed	C	2
Relay Actuation Circuit	RLY	E	14 AWG	THHN	Solid	Unjacketed	D	2
Voice Evacuation Speaker Circuit	SPKR	F	14 AWG	THHN	Solid	Twisted, Shielded	B	2
Non-addressable Initiating Device Circuit	IDC	G	18 AWG	TFN	Solid	Unjacketed	B	2
Remote Test Switch Circuit	RTS	H	18 AWG	TFN	Solid	Unjacketed	E	2
Auxiliary Power Circuit	AUX	J	14 AWG	THHN	Solid	Unjacketed	C or D	2

Revision Changes

Revision #1
As Builts:

GENERAL:
1. Some cosmetic changes to the plan such as minor nomenclature changes and symbol changes to match NFPA 160. These changes are not rev clouded.
2. Scope of work clarified, but not changed.
3. Updated legend, details, and calculations with most current changes.
4. Changed ceiling horn only model number to reflect ceiling mount device.

BUILDING 1923:
5. Removed supervised output module at knox box and added mini input module, M1.6.
6. Removed supervised output module at PS-1, PS-1 is now supervised and activated by NAC #1 on the FACP.
7. Added two output modules near FACP for central station service signals:
 7.1. M2.119, Water Flow signal to central station.
 7.2. M2.120, Fire Alarm signal to central station.
8. The following addresses have changed:
 8.1. Pull station next to panel address changed from S1.3 to M2.101.
 8.2. Heat detector in basement address changed from S1.14 to D2.2.
 8.3. Water flow switch in riser room address changed from S1.15 to M2.102.
 8.4. Tamper switch in riser room address changed from S1.16 to M2.103.
 8.5. PIV in riser room address changed from S1.17 to M2.107.
 8.6. Backflow preventer address changed from S1.18 To M2.104 & S1.19 to M2.105.
 8.7. FCU-H6 duct detector address changed from S1.5 to D2.21.
 8.8. FCU-H6 output module address changed from S1.4 to M2.121.
 8.9. FCU-H5 duct detector address changed from S1.7 to D2.22.
 8.10. FCU-H5 output module address changed from S1.6 to M2.122.
 8.11. FCU-H3 duct detector address changed from S1.9 to D2.23.
 8.12. FCU-H3 output module address changed from S1.8 to M2.123.
 8.13. FCU-H1B duct detector address changed from S1.11 to D2.24.
 8.14. FCU-H1B output module address changed from S1.10 to M2.124.
 8.15. FCU-H1A duct detector address changed from S1.13 to D2.25.
 8.16. FCU-H1A output module address changed from S1.12 to M2.125.

BUILDING 1948:
9. Horn/strobe N1.3.7 changed from 15cd to 30cd.
10. Horn/strobe N1.3.8 changed from 15cd to 30cd.
11. Horn/strobe N1.3.10 changed to weatherproof device.
12. Added weatherproof FDC horn/strobe to circuit N1.2.
13. Three mini input modules for wet riser supervision removed. The wet riser and PIV was removed.
14. A dry system was added to the riser room, added two dual input modules, M2.110 & M2.112.
15. FCU-A7 duct detector address changed from S1.22 to D2.33 and detector relocated.
16. FCU-A7 output module address changed from S1.21 to M2.133 and module relocated.
17. Added duct detector D2.32 and output module M2.132 to FCU-A6
18. Added duct detector D2.26 and output module M2.126 to FCU-A4A.
19. Added duct detector D2.27 and output module M2.127 to FCU-A4B.
20. Added duct detector D2.28 and output module M2.128 to FCU-A5.
21. Added duct detector D2.29 and output module M2.129 to FCU-A3.
22. Added duct detector D2.30 and output module M2.130 to FCU-A2.
23. Added duct detector D2.31 and output module M2.131 to FCU-A1.

Revision #2
As Builts:

GENERAL:
1. Revised operations matrix, clarified air handler shutdown and removed valve tamper signal to conform to current fire code. Updated matrix with water flow switch.
2. Updated central station monitoring information.

BUILDING 1948:
3. Added water flow switch back to the dry system.

Revision #3
As Builts:

GENERAL:
1. Added heat detector to operations matrix.
2. Changed model of power supply from Wheelock PS-6 to Firelite FCPS-24FS6.
3. Updated symbol legend, operations matrix, riser diagram, calculations, scope of work, and address schedule with most current changes.

BUILDING 1923:
4. Electrical room 115 expanded causing janitor and storage to be removed.
5. Relocated FACP, PS-1, smoke detector, pull station, two output modules for future radio to electrical room 115.
6. Relocated duct detector (D2.21), output module (M2.121), and associated remote indicator for unit FCU-H6.
7. Relocated duct detector (D2.23), output module (M2.123), and associated remote indicator for unit FCU-H3.
8. Removed two back flow preventer switches and replaced them with a high and low pressure switch.
 8.1. M2.104 changed from back flow preventer to high pressure switch
 8.2. M2.105 changed from back flow preventer to low pressure switch.
9. Horn/strobe N1.1.1 changed from 30cd to 75cd, ceiling height corrected from 8' to 12'.
10. Horn/strobe N1.1.6 changed from 30cd to 75cd, ceiling height corrected from 8' to 12'.

(3)

Fire Department Notes

1. This installation conforms with all applicable Nevada State Statutes and City of Las Vegas fire codes and Ordinances which are in effect at the time of installation.
2. The contractor (or his designee) must provide testing equipment and perform all testing required by the City of Las Vegas Fire and Building Departments.
3. The contractor shall conduct a "pretest" of the entire system before scheduling an acceptance test.
4. Areas protected by audible alarms will achieve a minimum of 80 db sound at any place within the protected property.
5. An acceptable performance test will be scheduled prior to final acceptance with a minimum of two (2) working days notice.

Applicable Codes

1. This installation is designed to conform to the following codes:
 1.1. 2012 IBC
 1.2. 2012 IFC
 1.3. 2013 NFPA 72
 1.4. 2011 NFPA 70
 1.5. 2012 CLV Amendments, Ordinance #6325

Misc Notes

Not used at this time.

Scope of Work

A new fire alarm system for a remodeled building. This building is undergoing a full remodel. A single fire alarm system shall be provided for both buildings. The fire alarm system shall supervise the sprinkler system. The fire alarm system shall supervise the knox box. There shall be 80dBa throughout and full visual coverage in all common areas. Duct detectors shall be system type addressable, the fire alarm system shall perform AHU shutdown. The fire alarm control panel shall be located in building 1923 in electrical room 115. One annunciator shall be provided for each riser room. (3)

HVAC Information

The fire alarm contractor shall provide addressable duct detectors, the mechanical contractor shall install the duct detectors onto the ducting. The fire alarm system shall supervise and power the system type addressable duct detectors. The fire alarm system shall perform AHU shutdown. The fire alarm contractor shall provide and install shutdown modules, mechanical contractor shall land the shutdown wiring onto his AHU. The remote indicators for duct detectors shall be provided and installed by the electrical contractor.

Building Monitoring Information

Central Station:	Alarmco, UL# S599
Devices Monitored:	(1) Fire Alarm System
Signals Transmitted:	1. Water Flow 2. Fire Alarm 3. Supervisory 4. System Trouble

Stamps and Approvals

APPROVAL IS FOR CLOUDED AREA (3) REVISIONS ONLY. SEE THE ORIGINALS FOR OTHER REQUIREMENTS

REVIEWED BY
LAS VEGAS FIRE DEPARTMENT
☑ RELEASE FOR INSTALLATION AS SUBMITTED
☐ RELEASE FOR INSTALLATION AS NOTED
☐ REVISE AND RESUBMIT

THIS REVIEW DOES NOT CONSTITUTE PERMISSION TO VIOLATE ANY CITY, STATE OR FEDERAL LAWS, ORDINANCES. ULTIMATE RESPONSIBILITY FOR COMPLIANCE RESTS WITH THE OWNER.

FINAL ACCEPTANCE OF INSTALLATION IS BASED UPON FIELD INSPECTION AND ACCEPTANCE TESTING.

REVIEWED BY [signature]
DATE: 6-2-16

Design Criteria

OCCUPANCY GROUP:	A2, B, M
SQUARE FOOTAGE:	13,103 sq. ft.
OCCUPANCY LOAD:	272
BUILDING HEIGHT:	1 Story
CEILING HEIGHT:	Specified on Plans
CIRCUIT CLASSIFICATION:	Power Limited

General Notes

1. The symbols used on this plan are designed to conform to NFPA 170 2006 edition.
2. All horns shall be temporal pattern and synchronized, and all strobes shall be synchronized per NFPA 72 2013 Edition.
3. This is a power limited fire alarm system, all fire alarm cable used in this system must be marked for power limited fire alarm use.
4. All conductors must test free of grounds before making any connections to the FACP.
5. Check visual devices for correct candela rating before installation.
6. 120VAC used for the fire alarm system must be a dedicated circuit. The circuit breaker must be rated at 20amps, and painted red. The dedicated 120VAC circuit shall be labeled as "Fire Alarm System".
7. All public and private areas in the scope of work shall have a minimum 80dba
8. The system shall be approved by the AHJ prior to commission of use.
9. conduit and junction boxes are diagrammatic only, due to field conditions exact locations of said items shall be determined by the fire alarm contractor. Actual conduit and box locations may vary.

281266/281267

RECEIVED
JUN - 2 2016
Las Vegas Fire Rescue

No	Date	Drawn	Checked	Issue Description
-	03-02-15	CL	RDF	Initial Submittal
1	10-09-15	KWR	JC	As Builts
2	10-22-15	KWR	JC	As Builts
3	06-01-16	KWR	JC	As Builts

Project Information:
Westside School Historic Renovation
330 W Washington Ave.
Las Vegas, NV 89106
APN: 139-27-201-004
Owner: City of Las Vegas
Bldg. Permit: 267070

NICET Signature (level 2 minimum):
☐ Jaime Gomez, SET #112412
☑ Kyle Randall, AET #124536

Licenses:
- Nevada Contractor (Low Voltage):
 - License Number: 67399
 - License Class: C2-C, D
 - License Limit: 400,000
- Nevada Contractor (Fire Protection):
 - License Number: 72352
 - License Class: C-41
 - License Limit: 200,000
- Nevada Fire Marshal: F-378, G-661
- County of Clark: 300001853
- City of Las Vegas: 300001853
- City of N Las Vegas: 300001853
- City of Henderson: 300001853
- City of Mesquite: 988398
- Town of Pahrump: S 4064 CC

SIGNAL FIRE
FIRE ALARM · MONITORING · INSPECTIONS
Signal Fire, Inc.
6160 Transverse Dr. Suite 100
Las Vegas, NV 89146
PH: 877-577-7495
FX: 877-577-7415
kyle@signalfireinc.com
www.signalfireinc.com

Fire Alarm System

Cover

Sheet 1 of 3

FA-0.00

Calculations

FACP Battery & Voltage Drop Calculations

A-1 FACP Configuration Battery Calculations:

Modular Boards Used		Current Draws		
Model Number	Description	Standby	Alarm	Quantity
FX-2003-6DS	Fire Alarm Control Panel – 6amp	0.230000	0.380000	1
			Total Standby Current Total:	0.230000
			Total Alarm Current Total:	0.380000

All Current Draws are measured in amp/hrs

B-1 Signaling Line Circuit Battery Calculations:

Devices Used		Current Draw		From Main Board Quantities	
Model Number	Description	Standby	Alarm	SLC #1	
2251B	Smoke Detector – Photo	0.000300	0.006500	1	
2251BR	Duct Detector – Photo	0.000300	0.006500	13	
5251RB	Heat Detector – Fixed & RoR	0.000300	0.006500	1	
MS710ADU	Pull Station	0.000400	0.005500	1	
M501M	Mini Input Module	0.000550	0.005500	6	
M500DM	Dual Input Module	0.000750	0.000970	2	
M500R	Output Module	0.000300	0.005500	15	
RA100Z	Remote Indicator	0.000000	0.012000	13	
			Total Standby Current:	0.014200	
			Total Alarm Current:	0.376440	

C-1 Auxiliary Power Circuit Calculations:

Devices Used		Current Draw		From Main Board Quantities	
Model Number	Description	Standby	Alarm	AUX #1	FSA
RAX-LCD	Annunciator	0.100000	0.150000		2
			Total Standby Current:	0.000000	0.200000
			Total Alarm Current:	0.000000	0.300000

C-2 Auxiliary Circuit Voltage Drop Calculations:

Wire Size:	14AWG
Wire Resistance:	0.00314 ohms/ft
Starting Voltage:	24.00 VDC

Auxiliary Power Circuits:	AUX #1	FSA
Panel to End of Circuit = Circuit Length:	0 ft	500 ft
("Circuit Length" X "Wire Resistance") X 2 = Circuit Resistance:	0.00 ohms	3.14 ohms
Alarm Current:	0.000000	0.300000
"Circuit Resistance" X "Alarm Current" = Voltage Drop:	0.00 VDC	0.94 VDC
"Starting Voltage" - "Voltage Drop" = End of Line Voltage:	**24.00 VDC**	**23.06 VDC**
Minimum Operating Voltage per Manufacturer:	20.00 VDC	20.00 VDC

D-1 Notification Appliance Circuit Calculations:

Devices Used		Current Draw		From Main Board Quantities			
Model Number	Description	Standby	Alarm	NAC #1	NAC #2	NAC #3	NAC #4
FCPS-24FS6	Power Supply Activation	0.00000	0.00200	1			
			Total Standby Current:	0.000000	0.000000	0.000000	0.000000
			Total Alarm Current:	**0.002000**	**0.000000**	**0.000000**	**0.000000**
			Maximum Amperage Per Manufacturer:	1.700000	1.700000	1.700000	1.700000

D-2 Notification Appliance Circuit Voltage Drop Calculations:

Wire Size:	14AWG
Wire Resistance:	0.00314 ohms/ft
Base Voltage:	24.00 VDC
85% Per UL864:	0.85
Starting Voltage:	20.40 VDC

Notification Appliance Circuits:	NAC #1	NAC #2	NAC #3	NAC #4
Panel to EOL = Circuit Length:	25 ft	0 ft	0 ft	0 ft
("Circuit Length" X "Wire Resistance") X 2 = Circuit Resistance:	0.16 ohms	0.00 ohms	0.00 ohms	0.00 ohms
Alarm Current:	0.002000	0.000000	0.000000	0.000000
"Circuit Resistance" X "Alarm Current" = Voltage Drop:	0.00 VDC	0.00 VDC	0.00 VDC	0.00 VDC
"Starting Voltage" - "Voltage Drop" = End of Line Voltage:	**20.40 VDC**	**20.40 VDC**	**20.40 VDC**	**20.40 VDC**
Minimum Operating Voltage per Manufacturer:	16.00 VDC	16.00 VDC	16.00 VDC	16.00 VDC

E-1 Panel Battery Requirements

Standby Current Total From Section: A-1	0.230000	Alarm Current Total From Section: A-1	0.380000
Standby Current Total From Section: B-1	0.014200	Alarm Current Total From Section: B-1	0.376440
Standby Current Total From Section: C-1	0.200000	Alarm Current Total From Section: C-1	0.300000
Standby Current Total From Section: D-1	0.000000	Alarm Current Total From Section: D-1	0.002000
Panel Standby Current Total:	0.444200	Panel Alarm Current Total:	1.058440
Required Standby Time:	24.00 hrs	Required Alarm Time:	0.083333 hrs
Minimum Battery Capacity for Standby Mode:	**10.660800**	Minimum Battery Capacity for Alarm Mode:	**0.088203**
Total Battery Capacity Required:	**10.749003**		
Safety Factor:	**1.2**		
Minimum Battery Capacity to be Installed:	**12.898804**		
Actual Batteries to be Installed in Panel:	**(2) 12volt – 18amp**		

PS-1 Battery & Voltage Drop Calculations

A-1 PS-1 Configuration Battery Calculations:

Modular Boards Used		Current Draws		
Model Number	Description	Standby	Alarm	Quantity
FCPS-24FS6	**Power Supply Panel – 6amps**	0.065000	0.145000	1
			Total Standby Current Total:	0.065000
			Total Alarm Current Total:	0.145000

All Current Draws are measured in amp/hrs

B-1 Notification Appliance Circuit Calculations:

Devices Used		Current Draw		(From Main Board) Quantities			
Model Number	Description	Standby	Alarm	NAC #1.1	NAC #1.2	NAC #1.3	NAC #1.4
HSWC	Ceiling H/S – 15cd	0.00000	0.08200	1	3	5	3
HSWC	Ceiling H/S – 30cd	0.00000	0.10200	2	1	4	
HSWC	Ceiling H/S – 75cd	0.00000	0.14800	7	1	2	7
HNW	Horn Only	0.00000	0.06400		7		
ASWP-2475W-FR	Weatherproof H/S – 75cd	0.00000	0.16800	1	1	1	
			Total Standby Current:	0.000000	0.000000	0.000000	0.000000
			Total Alarm Current:	**1.490000**	**1.112000**	**1.282000**	**1.282000**
			Maximum Current:	3.000000	3.000000	3.000000	3.000000

B-2 Notification Appliance Circuit Voltage Drop Calculations:

Base Voltage:	24.00 VDC
85% Per UL864:	0.85
Starting Voltage:	20.40 VDC

Notification Appliance Circuits:	NAC #1.1	NAC #1.2	NAC #1.3	NAC #1.4
Panel to EOL = Circuit Length:	300 ft	350 ft	275 ft	525 ft
Wire Size:	14 AWG	14 AWG	14 AWG	14 AWG
Rated Wire Resistance (Per Fire Code):	0.00314 ohms/ft	0.00314 ohms/ft	0.00314 ohms/ft	0.00314 ohms/ft
("Circuit Length" X "Wire Resistance") x 2 = Circuit Resistance:	1.88 ohms	2.20 ohms	1.73 ohms	3.30 ohms
Alarm Current:	1.490000	1.112000	1.282000	1.282000
"Circuit Resistance" X "Alarm Current" = Voltage Drop:	2.81 VDC	2.44 VDC	2.21 VDC	4.23 VDC
"Starting Voltage" - "Voltage Drop" = End of Line Voltage:	**17.59 VDC**	**17.96 VDC**	**18.19 VDC**	**16.17 VDC**
Minimum Operating Voltage per Manufacturer:	16.00 VDC	16.00 VDC	16.00 VDC	16.00 VDC

C-1 Auxiliary Appliance Circuit Calculations:

Devices Used		Current Draw		(Main Board) Quantities
Model Number	Description	Standby	Alarm	AUX #1.1
D4120	Conventional Duct Detector	0.021000	0.065000	
DH100ACDCLP	Conventional Duct Detector	0.015000	0.070000	
RA100Z	Duct Det Remote Annunciator	0.000000	0.012000	
			Total Standby Current:	0.000000
			Total Alarm Current:	**0.000000**
			Maximum Current:	0.500000

C-2 Auxiliary Appliance Circuit Voltage Drop Calculations:

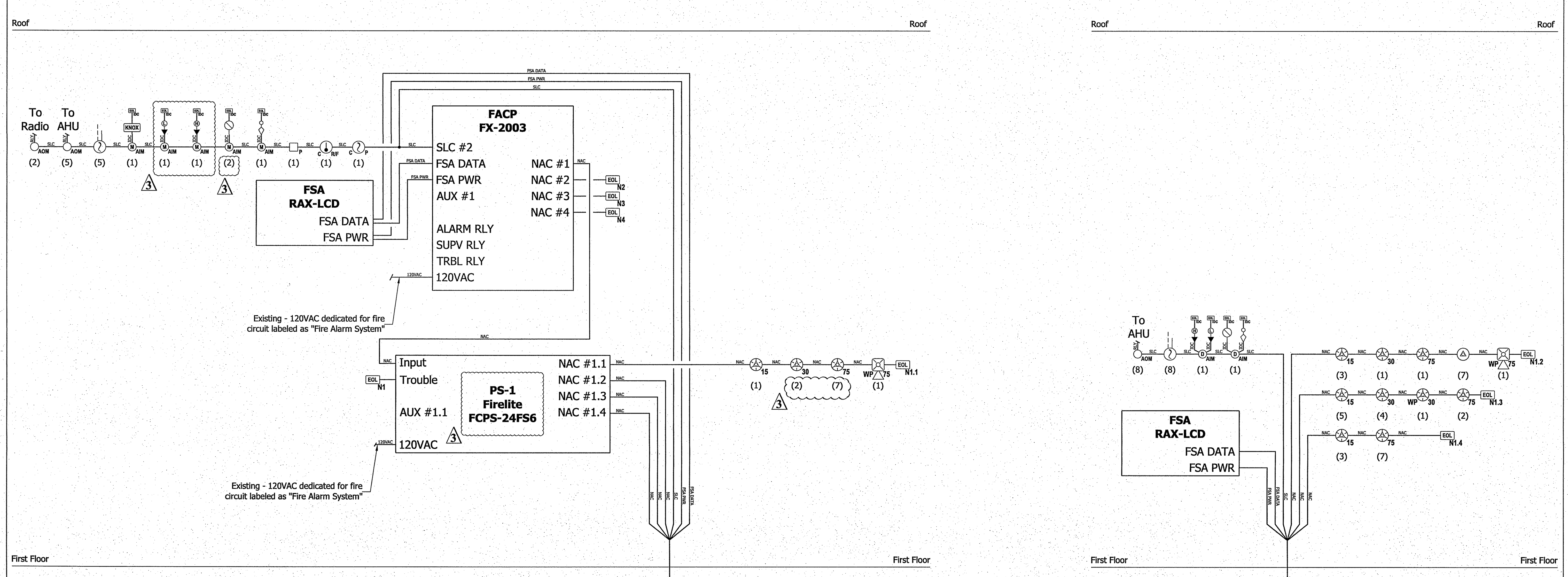
Base Voltage:	24.00 VDC

Auxiliary Appliance Circuits:	AUX #1.1
Panel to EOL = Circuit Length:	0 ft
Wire Size:	14 AWG
Rated Wire Resistance (Per Fire Code):	0.00314 ohms/ft
("Circuit Length" X "Wire Resistance") x 2 = Circuit Resistance:	0.00 ohms
Alarm Current:	0.000000
"Circuit Resistance" X "Alarm Current" = Voltage Drop:	0.00 VDC
"Starting Voltage" - "Voltage Drop" = End of Line Voltage:	**24.00 VDC**
Minimum Operating Voltage per Manufacturer:	20.00 VDC

D-1 Panel Battery Requirements

Standby Current Total From Section: A-1	0.065000	Alarm Current Total From Section: A-1	0.145000
Standby Current Total From Section: B-1	0.000000	Alarm Current Total From Section: B-1	5.166000
Standby Current Total From Section: C-1	0.000000	Alarm Current Total From Section: C-1	0.000000
Panel Standby Current Total:	0.065000	Panel Alarm Current Total (Max 6amps):	5.311000
Required Standby Time:	24.00 hrs	Required Alarm Time:	0.083333hrs
Minimum Battery Capacity for Standby Mode:	**1.560000**	Minimum Battery Capacity for Alarm Mode:	**0.442583**
Total Battery Capacity Required:	**2.002583**		
Safety Factor:	**1.2**		
Minimum Battery Capacity to be Installed:	**2.403100**		
Actual Batteries to be Installed in Panel:	**(2) 12volt – 7amp**	7ah max in cabinet, 18ah max charging	

Riser Diagram



Building 1923

Building 1948

SLC #2 Detector Address Schedule

D2.1	Smoke Detector -1923 - Above FACP in Closet 103
D2.2	Heat Detector - 1923 - Basement
D2.3	
D2.4	
D2.5	
D2.6	
D2.7	
D2.8	
D2.9	
D2.10	
D2.11	
D2.12	
D2.13	
D2.14	
D2.15	
D2.16	
D2.17	
D2.18	
D2.19	
D2.20	
D2.21	Duct Detector - 1923 - Exhibit Hall 105
D2.22	Duct Detector - 1923 - Meeting Room 101
D2.23	Duct Detector - 1923 - Meeting Room 106
D2.24	Duct Detector - 1923 - Exhibit Hall 112, West
D2.25	Duct Detector - 1923 - Exhibit Hall 112, East
D2.26	Duct Detector - 1948 - Production 2 133
D2.27	Duct Detector - 1948 - Waiting 130
D2.28	Duct Detector - 1948 - Front Waiting 125
D2.29	Duct Detector - 1948 - Conference 138
D2.30	Duct Detector - 1948 - Open Office 140
D2.31	Duct Detector - 1948 - Open Office 145
D2.32	Duct Detector - 1948 - Dining Room 123
D2.33	Duct Detector - 1948 - Kitchen 122
D2.34	
D2.35	
D2.36	
D2.37	
D2.38	
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D2.97	
D2.98	
D2.99	

SLC #2 Module Address Schedule

M2.101	Pull Station - Next to FACP
M2.102	Mini Input Module - 1923 - Supervision of Water Flow Switch
M2.103	Mini Input Module - 1923 - Supervision of Tamper Switch
M2.104	Mini Input Module - 1923 - Supervision of High Pressure Switch
M2.105	Mini Input Module - 1923 - Supervision of Low Pressure Switch
M2.106	Mini Input Module - 1923 - Supervision of Knox Box
M2.107	Mini Input Module - 1923 - Supervision of PIV
M2.108	
M2.109	
M2.110	Dual Input Module - 1948 - Supervision of Dry Water Flow Switch
M2.111	Dual Input Module - 1948 - Supervision of Dry Tamper Switch
M2.112	Dual Input Module - 1948 - Supervision of Dry High Pressure Switch
M2.113	Dual Input Module - 1948 - Supervision of Dry Low Pressure Switch
M2.114	
M2.115	
M2.116	
M2.117	
M2.118	
M2.119	Output Module - 1923 - Near FACP, Water Flow signal to Central Station
M2.120	Output Module - 1923 - Near FACP, Fire Alarm signal to Central Station
M2.121	Output Module - 1923 - Exhibit Hall 105 AHU Shutdown
M2.122	Output Module - 1923 - Meeting Room 101 AHU Shutdown
M2.123	Output Module - 1923 - Meeting Room 106 AHU Shutdown
M2.124	Output Module - 1923 - Exhibit Hall 112, West AHU Shutdown
M2.125	Output Module - 1923 - Exhibit Hall 112, East AHU Shutdown
M2.126	Output Module - 1948 - Production 2 133 AHU Shutdown
M2.127	Output Module - 1948 - Waiting 130 AHU Shutdown
M2.128	Output Module - 1948 - Front Waiting 125 AHU Shutdown
M2.129	Output Module - 1948 - Conference 138 AHU Shutdown
M2.130	Output Module - 1948 - Open Office 140 AHU Shutdown
M2.131	Output Module - 1948 - Open Office 145 AHU Shutdown
M2.132	Output Module - 1948 - Dining Room 123 AHU Shutdown
M2.133	Output Module - 1948 - Kitchen 122 AHU Shutdown
M2.134	
M2.135	
M2.136	
M2.137	
M2.138	
M2.139	
M2.140	
M2.141	
M2.142	
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M2.196	
M2.197	
M2.198	
M2.199	

Misc Notes

APPROVAL IS FOR CLOUDED AREA (3) REVISIONS ONLY. SEE THE ORIGINALS FOR OTHER REQUIREMENTS

REVIEWED BY
LAS VEGAS FIRE DEPARTMENT
☑ RELEASE FOR INSTALLATION AS SUBMITTED
☐ RELEASE FOR INSTALLATION AS NOTED
☐ REVISE AND RESUBMIT

THIS REVIEW DOES NOT CONSTITUTE PERMISSION TO VIOLATE ANY CITY, STATE OR FEDERAL LAWS, ORDINANCES, ULTIMATE RESPONSIBILITY FOR COMPLIANCE RESTS WITH THE OWNER.

FINAL ACCEPTANCE OF INSTALLATION IS BASED UPON FIELD INSPECTION AND ACCEPTANCE TESTING.

REVIEWED BY [signature]

DATE: 6/2/16

No	Date	Drawn	Checked	Issue Description
-	03-02-15	CL	RDF	Initial Submittal
1	10-09-15	KWR	JC	As Builts
2	10-22-15	KWR	JC	As Builts
3	06-01-16	KWR	JC	As Builts

Project Information:
Westside School Historic Renovation
330 W Washington Ave.
Las Vegas, NV 89106
APN: 139-27-201-004
Owner: City of Las Vegas
Bldg. Permit: 267070

NICET Signature (level 2 minimum):
☐ Jaime Gomez, SET #112412
☑ Kyle Randall, AET #124536

Licenses:
- Nevada Contractor (Low Voltage):
  - License Number: 67399
  - License Class: C2-C, D
  - License Limit: 400,000
- Nevada Contractor (Fire Protection):
  - License Number: 72352
  - License Class: C-41
  - License Limit: 200,000
- Nevada Fire Marshal: F-378 G-661
- County of Clark: 3000001853
- City of Las Vegas: 3000001853
- City of N Las Vegas: 3000001853
- City of Henderson: 3000001853
- City of Mesquite: 988398
- Town of Pahrump: S 4064 CC

SIGNAL FIRE
FIRE ALARM · MONITORING · INSPECTIONS
Signal Fire, Inc.
6160 Transverse Dr. Suite 100
Las Vegas, NV 89146
PH: 877-577-7495
FX: 877-577-7415
kyle@signalfireinc.com
www.signalfireinc.com

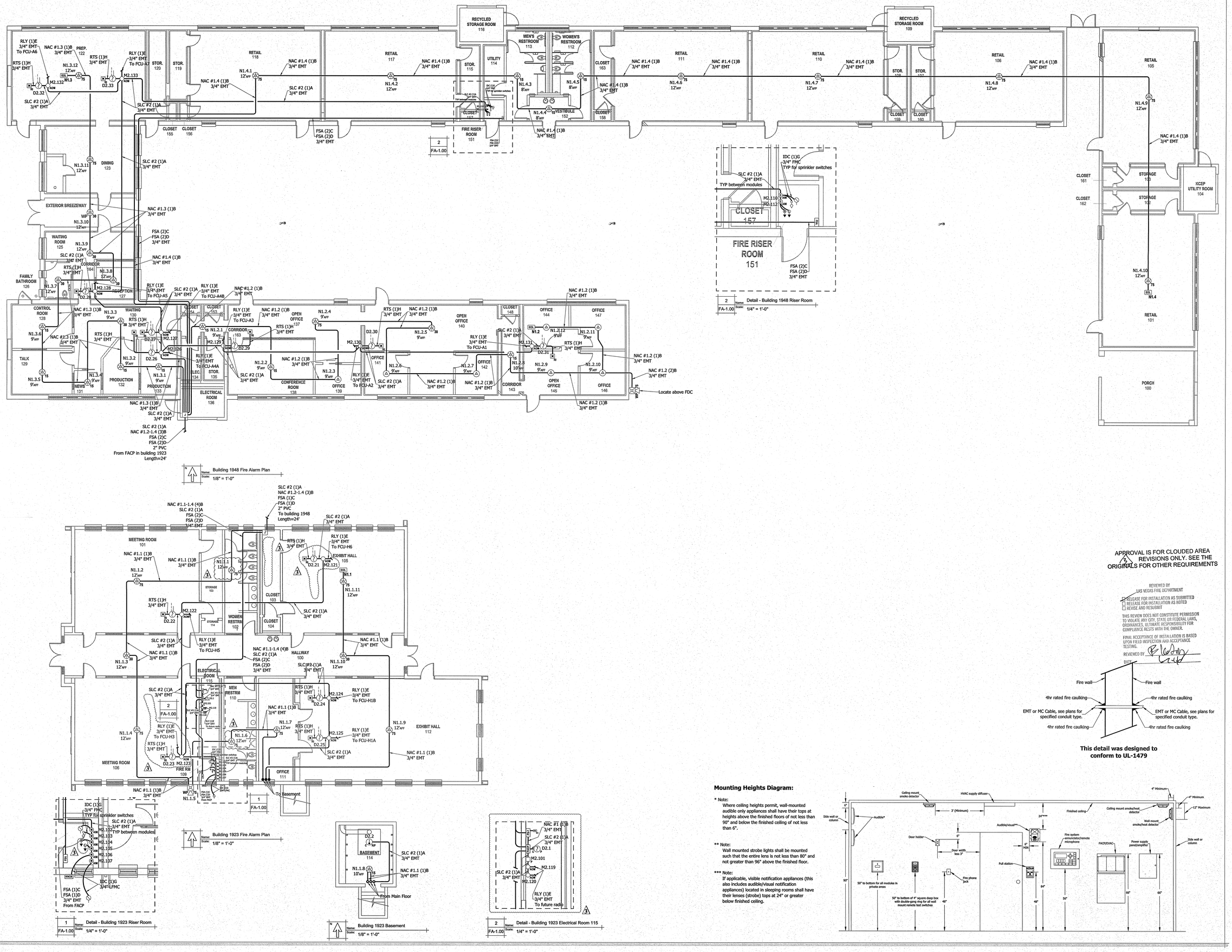
Fire Alarm System

Calculations, Riser Diagram, & Details

Sheet 2 of 3

FA-0.10

Fire Alarm Plan



2 FA-1.00 Name: Detail - Building 1948 Riser Room Scale: 1/4" = 1'-0"

N Name: Building 1948 Fire Alarm Plan Scale: 1/8" = 1'-0"

1 FA-1.00 Name: Detail - Building 1923 Riser Room Scale: 1/4" = 1'-0"

N Name: Building 1923 Fire Alarm Plan Scale: 1/8" = 1'-0"

N Name: Building 1923 Basement Scale: 1/8" = 1'-0"

2 FA-1.00 Name: Detail - Building 1923 Electrical Room 115 Scale: 1/4" = 1'-0"

Mounting Heights Diagram:

* Note:
Where ceiling heights permit, wall-mounted audible only appliances shall have their tops at heights above the finished floors of not less than 90" and below the finished ceiling of not less than 6".

** Note:
Wall mounted strobe lights shall be mounted such that the entire lens is not less than 80" and not greater than 96" above the finished floor.

*** Note:
If applicable, visible notification appliances (this also includes audible/visual notification appliances) located in sleeping rooms shall have their lenses (strobe) tops at 24" or greater below finished ceiling.

APPROVAL IS FOR CLOUDED AREA 2
REVISIONS ONLY. SEE THE ORIGINALS FOR OTHER REQUIREMENTS

REVIEWED BY
LAS VEGAS FIRE DEPARTMENT
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REVIEWED BY
DATE

This detail was designed to conform to UL-1479

No	Date	Drawn	Checked	Issue Description
-	03-02-15	CL	RDF	Initial Submittal
1	10-08-15	KWR	JC	As Builts
2	10-22-15	KWR	JC	As Builts
3	08-01-16	KWR	JC	As Builts

Project Information:
Westside School Historic Renovation
330 W Washington Ave.
Las Vegas, NV 89106
APN: 139-27-201-004
Owner: City of Las Vegas
Bldg. Permit: 287070

NICET Signature Block (if applicable):
☐ Jaime Gomez, SET #112412
☑ Kyle Randall, AET #1245361

Licenses:
- Nevada Contractor (Low Voltage): 67999
- License Number: C-20
- License Limit: 400,000
- Nevada Contractor (Fire Protection): 72312
- License Number: A-1
- License Limit: 200,000
- Nevada Fire Marshal: F-378 C-650

- County of Clark: 3000001853
- City of Las Vegas: 3000001853
- City of N. Las Vegas: 3000001853
- City of Henderson: 3000001853
- City of Mesquite: 598358
- Town of Pahrump: S-4064 LC

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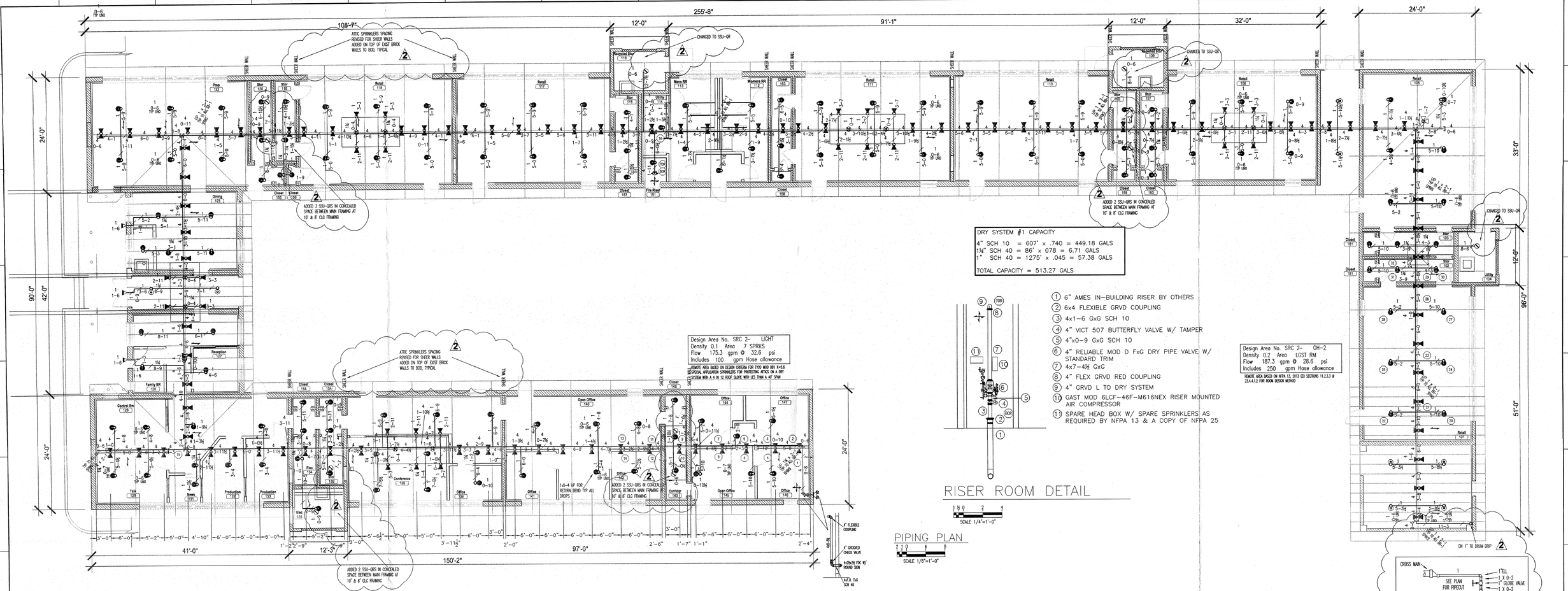
6160 Transverse Dr. Suite 100
Las Vegas, NV 89146
PH: 877-577-7495
FX: 877-577-7415
kyle@signalfireinc.com
www.signalfireinc.com

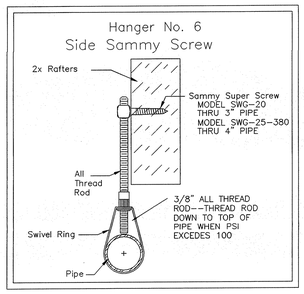
Fire Alarm System

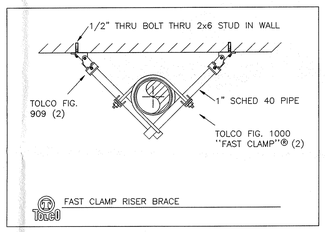
Fire Alarm Plan

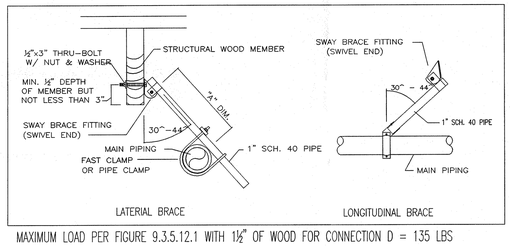
Sheet 3 of 3

FA-1.00









MAXIMUM LOAD PER FIGURE 9.3.5.12.1 WITH 1½" OF WOOD FOR CONNECTION D = 135 LBS

NOTE: ALL HEADS TO BE QUICK RESPONSE UNLESS OTHERWISE NOTED!
NOTE: SEE REFLECTED CEILING PLAN FOR PENDENT SPRINKLER QUANITIES

NOTICE:
THE OWNER IS RESPONSIBLE TO MAINTAIN ADEQUATE HEAT SUFFICIENT TO PREVENT FREEZE THROUGHOUT WET PIPE SPRINKLER SYSTEM AREAS, ROOMS and/or ENCLOSURES FOR DRY-PIPE, PREACTION, DELUGE, OR ANY OTHER VALVES CONTROLLING WATER SUPPLIES TO AUTOMATIC FIRE SPRINKLER SYSTEMS.

NORTH

HANGER NOTES

DK C	DECK CENTERLINE
TC C	TOP CHORD CENTERLINE
BC C	BOTTOM CHORD CENTERLINE
BB C	BOTTOM BEAM CENTERLINE
BJ C	BOTTOM JOIST CENTERLINE
X (X-X)	HANGER TYPE AND (LENGTH)

SYMBOLS

EXIST. UNDERGROUND	GLOBE VALVE	GROOVED COUPLING	UPRIGHT HEAD ON EXPOSED PIPE
NEW UNDERGROUND	CHECK VALVE	GROOVED FLEXIBLE COUPLING	PENDENT HEAD ON EXPOSED PIPE
UG KEY VALVE	FLOW SWITCH RISER	HANGER	UPRIGHT HEAD(T SPRIG EXPOSED PIPE
POST INDICATOR VALVE	FLOW SWITCH RISER	SIESMIC E.Q. BRACE	UPRIGHT & PENDENT SAME LOCATION
G S & Y GATE VALVE	ALARM VALVE RISER	HYDRAULIC REFERENCE POINT	RECESSED HEAD
BUTTERFLY VALVE	DRY PIPE RISER	BRANCH LINE NUMBER	CONCEALED HEAD
FIRE HYDRANT	PIPE DOWN	MAIN TAG NUMBER	DRY PENDENT HEAD
FIRE HYDRANT	PIPE UP	CEILING ELEVATION	HORIZONTAL SIDEWALL HEAD
FIRE DEPT. CONNECTION	FLOW SWITCH		EXTENDED COVERAGE HSW HEAD
FIRE DEPT. CONNECTION			

EXCESS ABOVE CEILING	PIPE ELEV. BELOW DECK
APF	APF ABOVE FINISHED FLOOR
CIF	CUT IN FIELD
FO	FIELD ORDER
℄	CENTERLINE

SPRINKLER COUNT

SYMBOL	MAKE-MODEL	TYPE	S.I.N.	FINISH	CANOPY	ORIF.	K-FACTOR	DEG.	QUANTITY
▼	TYCO MOD BB-1	ATTIC	TY3180	BRASS	N/A	1/2"	5.6	200°	94
▼	TYCO MOD SD-1	ATTIC	TY3183	BRASS	N/A	1/2"	5.6	200°	26
▽	TYCO MOD HIP	ATTIC	TY3187	BRASS	N/A	1/2"	5.6	200°	2
⊗	TYCO MOD AP	ATTIC	TY3190	BRASS	N/A	1/2"	5.6	200°	10
⊘	TYCO TY-FRB	SSU-QR	TY3131	BRASS	N/A	1/2"	5.6	200°	12
TOTAL SPRINKLERS: THIS SHEET									144

REVISIONS

	DATE	ISSUE
FOR SUBMITTAL	04-08-15	#1
AS-BUILT	07-08-15	#2

APPROVAL IS FOR CLOUDED AREA
1 REVISIONS ONLY. SEE THE ORIGINALS FOR OTHER REQUIREMENTS

REVIEWED BY LAS VEGAS FIRE DEPARTMENT
RELEASE FOR INSTALLATION AS SUBMITTED
RELEASE FOR INSTALLATION AS NOTED
REVISE AND RESUBMIT
THIS REVIEW DOES NOT CONSTITUTE PERMISSION TO VIOLATE ANY FEDERAL, STATE, OR LOCAL LAWS, ORDINANCES, OR REGULATIONS. RESPONSIBILITY FOR COMPLIANCE REMAINS WITH OWNER.
FINAL ACCEPTANCE OF THIS INSTALLATION IS BASED UPON FIELD OBSERVATION AND ACCEPTANCE TESTING.
REVIEWED BY
DATE: 7/9/15

RICHARD P. FREDERICK, CET #0257 • OSHA 30
SIGNATURE
AUTOMATIC SPRINKLER SYSTEMS LAYOUT LEVEL IV

LICENSED FIRE PROTECTION CONTRACTOR
CONTRACTORS FIRE PROTECTION CLASSIFICATION C-16 | A
LICENSE NO. 43028A
NEVADA
STATE FIRE MARSHAL BUREAU

AS-BUILT
ISSUE: # 1

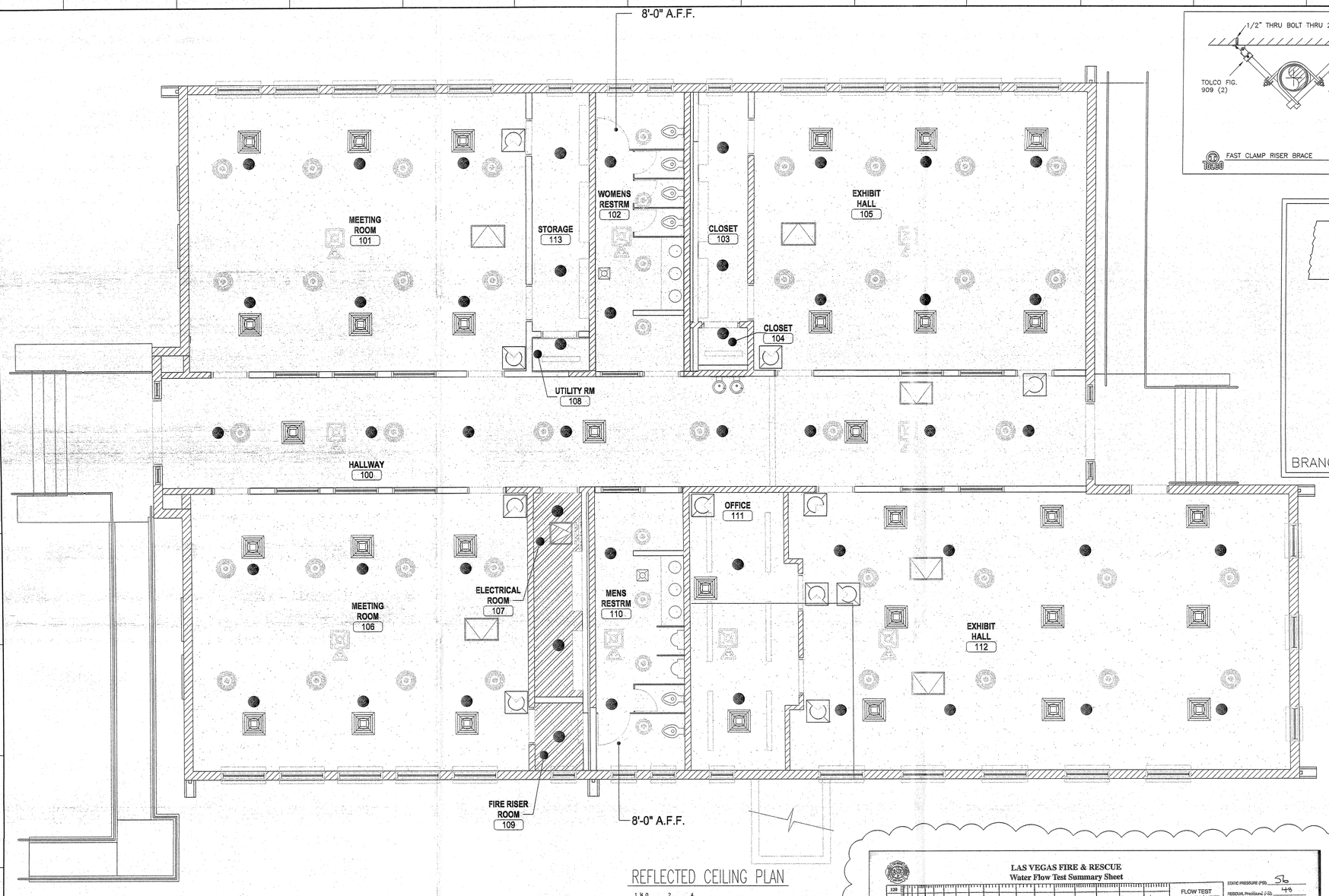
TWENTY-FOUR HOUR SERVICE
FIRE SPRINKLER SYSTEM
DESIGN - INSTALLATION - SERVICE

Harmony Fire PROTECTION

3865 ROCKBOTTOM ST.
NORTH LAS VEGAS, NEVADA 89030
PH: (702)737-8331
FAX: (702)737-8330

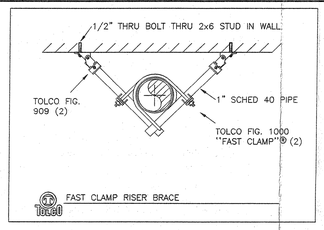
TENANT IMPROVEMENTS
INSPECTIONS
NEVADA LIC. 43028A

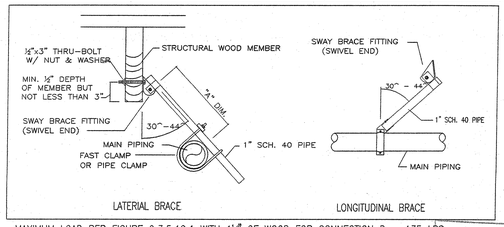
PROJECT:	1498 AMMEX - WESTSIDE SCHOOL
ADDRESS:	330 W. WASHINGTON AVE. 284215
CITY:	LAS VEGAS, NV
TITLE:	PIPING PLAN
REVIEWING AUTHORITY:	LAS VEGAS FIRE RESCUE
DATE:	04-08-15
SCALE:	1/8" = 1'-0"
DRAWN:	T.L. ROE
SYS. NO:	ONE
PROJECT NO:	03-0000
SHEET	FP - 01



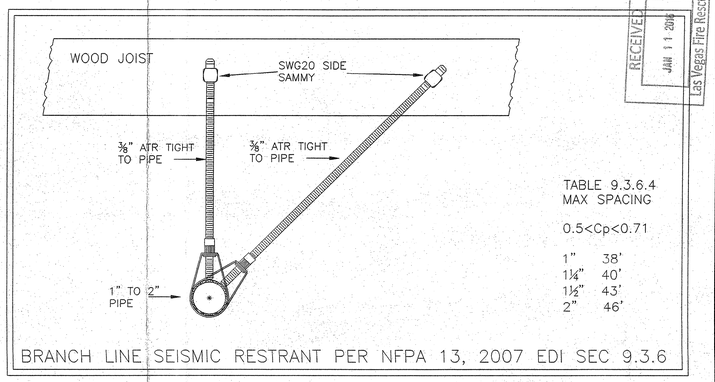
REFLECTED CEILING PLAN

SCALE 1/4"=1'-0"





MAXIMUM LOAD PER FIGURE 9.3.5.12.1 WITH 1½" OF WOOD FOR CONNECTION D = 135 LBS



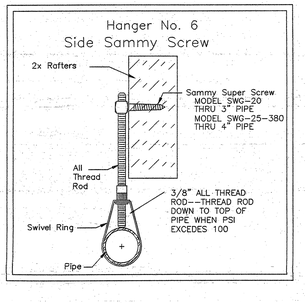
BRANCH LINE SEISMIC RESTRANT PER NFPA 13, 2007 EDI SEC 9.3.6

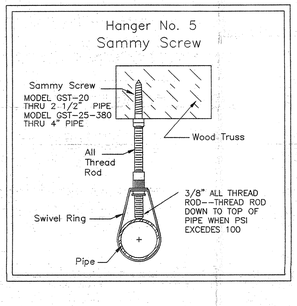
RECEIVED JAN 11 2016 Las Vegas Fire Rescue

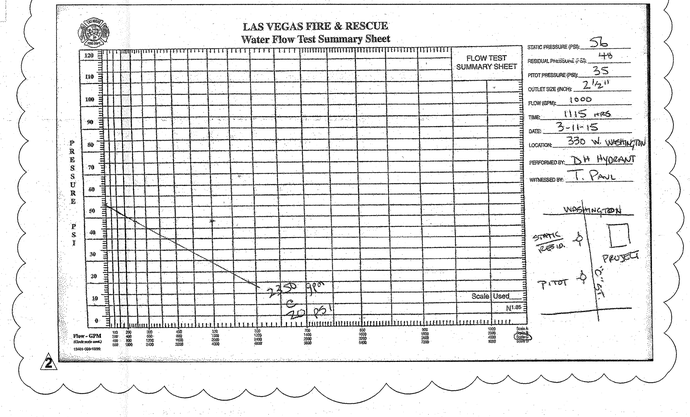
3066 R1

FIRE DEPT. NOTES

1) THE NEW SYSTEM IS A HYDRAULICALLY CALCUATED DRY PIPE
2) SYSTEM W/ DESIGN CRITERIA OF LIGHT HAZ GP II, .10/2535 SQ FT MIN IN THE ATTIC. REMOTE INCREASED 30% BEING A DRY SYSTEM AND AN ADDITIONAL 30% FOR A ROOF SLOPE OVE 2 IN 12 PITCH.
3) ATTIC SPRINKLERS TO BE SPACED PER NFPA 13, 2013 EDI SECTION 8.6.4.1.4
4) ALL PENDENT SPRINKLERS ARE TO BE INSTALLED ON RETURN BENDS AND COVERED W/ INSULATION.
5) THE EXISTING STRUCTURE IS COMBUSTABLE OBSTRUCTED CONSTRUCTION W/ WOOD TRUSSES SUB PERLINS AND DECK.
6) ALL ORDINARY TEMPERATURE SPRINKLERS TO BE INSTALLED A MIN OF 12" FROM ANY HVAC DIFFUSER.
7) THE EXISTING UNDERGROUND SYSTEM HAS A STATIC PSI OF _56_.
6) ALL ARMOVERS OVER 12" LONG SHALL BE HUNG WHEN STATIC PRESSURE EXCEDES 100 PSI AND SURGE RESTRAINERS INSTALLED.
7) HYDROSTATIC TEST OF 200 PSI SHALL BE BE PERFORMED AND A 24 HOUR AIR TEST.
8) NOTIFICATION AND WIREING OF ALL DEVICES IS TO BE PROVIDED BY OTHERS.
9) ALL NEW 1" THRU 1 1/4" SCREWED PIPING SHALL BE SCHEDULE 40 W/ STANDAED CLASS 125 C.I. FITTINGS. ALL NEW 4" GROOVED PIPING SHALL BE SCHED. 10 W/ FIRELOCK GROOVED FITTINGS.
10) THE DESIGN AND INSTALLATION SHALL COMPLY W/ NFPA 13, 2013 EDITION WITH SOUTHERN NEVADA ADOPTED AMENDMENTS AND ALL CITY OF LAS VEGAS & STATE OF NEVADA ADOPTED CODES.
11) THE ENTIRE BUILDING BELOW THE CEILINGS ARE HEATED TO A MIN OF 40 DEG, THE ATTIC AREA IS UNHEATED SO THE ENTIRE SYSTEM IS A DRY SYSTEM.







NOTE: ALL HEADS TO BE QUICK RESPONSE UNLESS OTHERWISE NOTED!

REVIEWED BY LAS VEGAS FIRE DEPARTMENT
☒RELEASE FOR INSTALLATION AS SUBMITTED
☐RELEASE FOR INSTALLATION AS NOTED
☐REVISE AND RESUBMIT
THIS REVIEW DOES NOT CONSTITUTE PERMISSION TO VIOLATE ANY CITY, STATE OR FEDERAL LAWS, ORDINANCES. ULTIMATE RESPONSIBILITY FOR COMPLIANCE RESTS WITH THE OWNER.
FINAL ACCEPTANCE OF INSTALLATION IS BASED UPON FIELD INSPECTION AND ACCEPTANCE TESTING.
REVIEWED BY
DATE 1/26/16

AN APPROVED AUDIBLE/VISUAL SPRINKLER FLOW ALARM SHALL BE PROVIDED ON THE EXTERIOR OF THE BUILDING IN AN APPROVED LOCATION

CENTRAL STATION MONITORING (REMOTE SUPERVISION) OF FIRE SPRINKLER SYSTEM REQUIRED.

CONTRACTOR/ENGINEER MUST OBTAIN LVVWD APPROVAL FOR VERIFICATION OF METER AND BACKFLOW PREVENTION DEVICE TO SUPPORT FIRE SPRINKLER DESIGN

AS BUILT DATE: 8-8-16

RONALD F. FREDRICKS NICET# 105825 — AUTOMATIC SPRINKLER SYSTEM LAYOUT LEVEL III

LICENSED FIRE PROTECTION CONTRACTOR CONTRACTORS STATE LICENSE BOARD C-16 LICENSE NO. 43028A NEVADA — JAMES FIRE MARSHAL #2028

ALL UTILITY AND SITEWORK SHALL COMPLY WITH THE APPROVED CIVIL PLANS.

ISSUE: #2

NOTICE:
THE OWNER IS RESPONSIBLE TO MAINTAIN ADEQUATE HEAT SUFFICIENT TO PREVENT FREEZE THROUGHOUT WET PIPE SPRINKLER SYSTEM AREAS, ROOMS and/or ENCLOSURES FOR DRY-PIPE, PREACTION, DELUGE, OR ANY OTHER VALVES CONTROLLING WATER SUPPLIES TO AUTOMATIC FIRE SPRINKLER SYSTEMS.

NORTH

HANGER NOTES

DK℄	DECK CENTERLINE
TC℄	TOP CHORD CENTERLINE
BC℄	BOTTOM CHORD CENTERLINE
BB℄	BOTTOM BEAM CENTERLINE
BJ℄	BOTTOM JOIST CENTERLINE
X (X-X)	HANGER TYPE AND (LENGTH)

SYMBOLS

EXIST. UNDERGROUND; NEW UNDERGROUND; UG KEY VALVE; POST INDICATOR VALVE; O S & Y GATE VALVE; BUTTERFLY VALVE; FIRE HYDRANT; FIRE HYDRANT; FIRE DEPT. CONNECTION; FIRE DEPT. CONNECTION

GLOBE VALVE; CHECK VALVE; FLOW SWITCH RISER; FLOW SWITCH RISER; ALARM VALVE RISER; DRY PIPE RISER; PIPE DOWN; PIPE UP; FLOW SWITCH

GROOVED COUPLING; GROOVED FLEXIBLE COUPLING; HANGER; SEISMIC B.O. BRACE; HYDRAULIC REFERENCE POINT; BRANCH LINE NUMBER; MAIN TAG NUMBER; CEILING ELEVATION

UPRIGHT HEAD ON EXPOSED PIPE; PENDENT HEAD ON EXPOSED PIPE; UPRIGHT HEAD(1" SPRIG EXPOSED PIPE; UPRIGHT & PENDENT SAME LOCATION; RECESSED HEAD; CONCEALED HEAD; DRY PENDENT HEAD; HORIZONTAL SIDEWALL HEAD; EXTENDED COVERAGE HSW HEAD

PIPE ELEV. BELOW DECK; PIPE ELEV. ABOVE FLOOR; AFF ABOVE FINISHED FLOOR; CUT IN FIELD; FIELD ORDER; ℄ CENTERLINE

SPRINKLER COUNT

SYMBOL	MAKE-MODEL	TYPE	S.I.N.	FINISH	CANOPY	ORIF.	K-FACTOR	DEG.	QUANTITY
	TYCO TY-FRB	SSP-QR	TY3231	CHROME	CH-REC	1/2"	5.6	155°	49
TOTAL SPRINKLERS: THIS SHEET									49

REVISIONS

	DATE	ISSUE
FOR SUBMITTAL	12-10-15	#1
CLV COMMENTS	01-07-16	#2

TWENTY-FOUR HOUR SERVICE
FIRE SPRINKLER SYSTEM
DESIGN - INSTALLATION - SERVICE

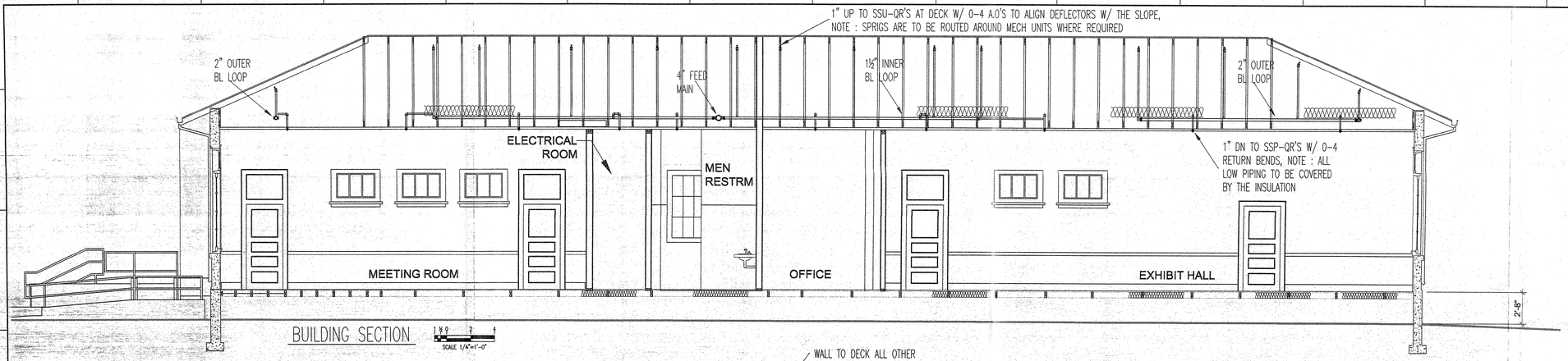
Harmony Fire Protection

3805 ROCKBOTTOM ST.
NORTH LAS VEGAS, NEVADA 89030
PH: (702)737-6331
FAX: (702)737-0330

TENANT IMPROVEMENTS
INSPECTIONS
NEVADA LIC. 43028A

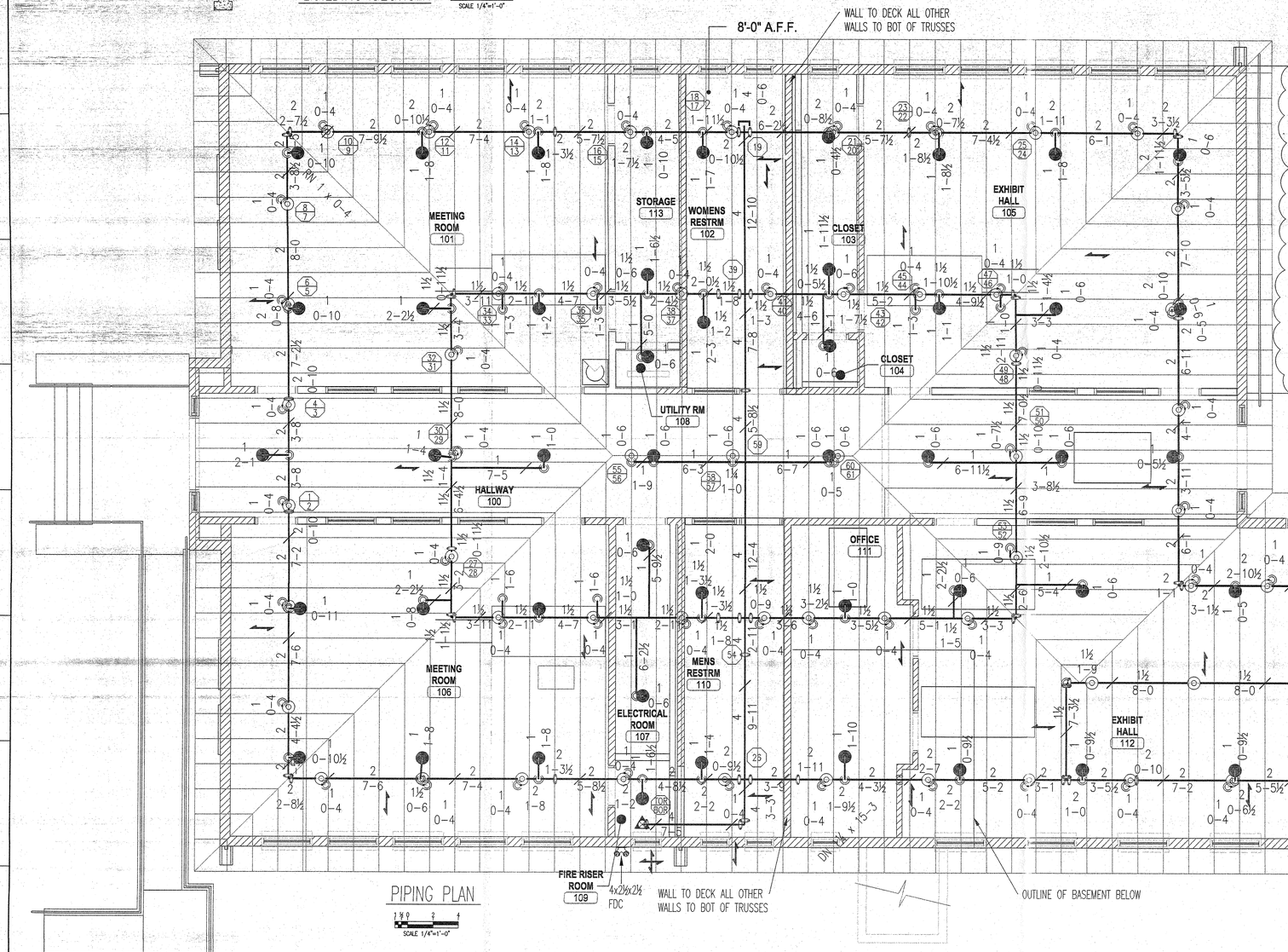
PROJECT:	1923 AMMEX - WESTSIDE SCHOOL
ADDRESS:	330 W. WASHINGTON AVE.
CITY:	LAS VEGAS, NV
TITLE:	REFLECTCED CEILING PLAN

REVIEWING AUTHORITY: LAS VEGAS FIRE RESCUE	DATE: 12-10-15	SYS. NO: ONE	SHEET
	SCALE: 1/4" = 1'-0"	GC PERMIT	FP - 01
	DRAWN: T.L. ROE	267070	



BUILDING SECTION

SCALE 1/4"=1'-0"



PIPING PLAN

SCALE 1/4"=1'-0"

Design Area No. 1 – LIGHT
Density 0.1 Area 2535
Flow 483.9 gpm @ 25.7 psi
Includes 100 gpm Hose allowance

ACTUAL SQ FT = 2649

EQB LOAD CALK FOR MAX LATERIAL BRACE @ MAIN

4 SCHED 10 = 17' x 11.78 # = 200.26

TOTAL WEIGHT = 200.26x1.15 = 230.30
ACTUAL LOAD = ½ OF 230.30 = 115.15 LBS

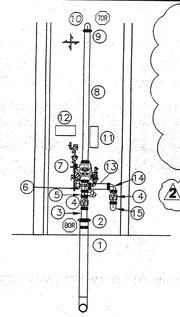
EQB LOAD CALK FOR MAX LATERIAL BRACE @ 2" LINE

2 SCHED 10 = 26' x 4.22 # = 109.72
1" SCHED 40 = 20' x 2.053 # = 41.06

TOTAL WEIGHT = 150.78x1.15 = 173.40
ACTUAL LOAD = ½ OF 173.40 = 86.7 LBS

NOTE: ALL 2" & 1½" BRANCH LINE PIPINS IS TO BE LATERALY BRACED. ANY 1¼" & 1" TO BE RESTRAINED AS REQUIRED

DRY SYSTEM #1 CAPACITY
4" SCH 10 = 73' x .740 = 54.02 GALS
2" SCH 10 = 280' x .190 = 53.20 GALS
1½" SCH 40 = 141' x .115 = 16.22 GALS
1¼" SCH 40 = 18' x .078 = 1.40 GALS
1" SCH 40 = 625' x .045 = 28.13 GALS
TOTAL CAPACITY = 152.97 GALS



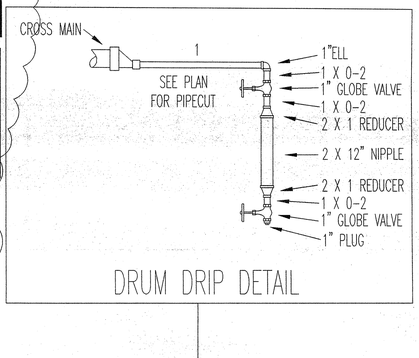
1. 4" AMES IN-BUILDING RISER BY OTHERS
2. 6x4 FLEXIBLE GRVD COUPLING
3. 6x0-9½ GxG SCH 10
4. 6" VICT 717 CHECK VALVE
5. 6" VICT 507 BUTTERFLY VALVE W/ TAMPER
6. 6" GROOVED T
7. 6" RELIABLE MOD D FxG DRY PIPE VALVE W/ STANDARD TRIM
8. 6x9-2½ GxG
9. 6" FLEX GRVD RED COUPLING
10. 4" GRVD L TO DRY SYSTEM
11. GAST MOD 2LAF-46S-M200EX ½ HP RISER MOUNTED AIR COMPRESSOR, MAX CAPACITY 150 GAL
12. SPARE HEAD BOX W/ SPARE SPRINKLERS AS REQUIRED BY NFPA 13 & A COPY OF NFPA 25
13. 4x1-3 GxG SCH 10
14. 4 GROOVED L
15. 4 GROOVED L THRU WALL TO 4x2½x2½ FDC

3 LEM-46S-M345EX 3½P 180gal

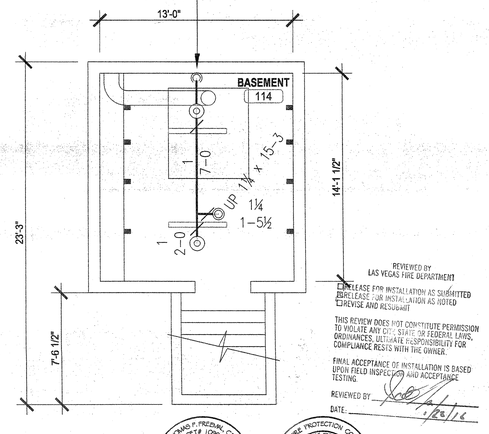
RISER ROOM DETAIL

SCALE 1/4"=1'-0"

NOTE: PER TABLE 7.2.3.6.1 FOR LIGHT HAZARD WATER DELIVERY TO THE TEST CONNECTION SIMULATING ONE SPRINKLER OPERATING IN NO MORE THAN 60 SECONDS. TECTING SHALL BE CONDUCTED PER SECTION 7.2.3.7 (2)



DRUM DRIP DETAIL



REVIEWED BY LAS VEGAS FIRE DEPARTMENT
☐ RELEASE FOR INSTALLATION AS SUBMITTED
☐ RELEASE FOR INSTALLATION AS NOTED
☐ REVISE AND RESUBMIT

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FINAL ACCEPTANCE OF INSTALLATION IS BASED UPON FIELD INSPECTION AND ACCEPTANCE TESTING.

REVIEWED BY _____

DATE: 8/26/16

AS BUILT
DATE: 8-8-16

ISSUE: # 2

NOTE: ALL HEADS TO BE QUICK RESPONSE UNLESS OTHERWISE NOTED!

NOTICE:
THE OWNER IS RESPONSIBLE TO MAINTAIN ADEQUATE HEAT SUFFICIENT TO PREVENT FREEZE THROUGHOUT WET PIPE SPRINKLER SYSTEM AREAS, ROOMS and/or ENCLOSURES FOR DRY-PIPE, PREACTION, DELUGE, OR ANY OTHER VALVES CONTROLLING WATER SUPPLIES TO AUTOMATIC FIRE SPRINKLER SYSTEMS.

NORTH

HANGER NOTES

DX C	DECK CENTERLINE
TC C	TOP CHORD CENTERLINE
BC C	BOTTOM CHORD CENTERLINE
BB C	BOTTOM BEAM CENTERLINE
BJ C	BOTTOM JOIST CENTERLINE
X (X-X)	HANGER TYPE AND (LENGTH)

SYMBOLS

EXIST. UNDERGROUND; NEW UNDERGROUND; UG KEY VALVE; POST INDICATOR VALVE; O S & Y GATE VALVE; BUTTERFLY VALVE; FIRE HYDRANT; FIRE HYDRANT; FIRE DEPT. CONNECTION; FIRE DEPT. CONNECTION

GLOBE VALVE; CHECK VALVE; FLOW SWITCH RISER; FLOW SWITCH RISER; ALARM VALVE RISER; DRY PIPE RISER; PIPE DOWN; PIPE UP; FLOW SWITCH

GROOVED COUPLING; GROOVED FLEXIBLE COUPLING; HANGER; SEISMIC B.O. BRACE; HYDRAULIC REFERENCE POINT; BRANCH LINE NUMBER; MAIN TAG NUMBER; CEILING ELEVATION

UPRIGHT HEAD ON EXPOSED PIPE; PENDENT HEAD ON EXPOSED PIPE; UPRIGHT HEAD** SPRIG EXPOSED PIPE; UPRIGHT & PENDENT BASE LOCATION; RECESSED HEAD; CONCEALED HEAD; DRY PENDENT HEAD; HORIZONTAL SIDEWALL HEAD; EXTENDED COVERAGE HSW HEAD

PIPE ELEV. BELOW DECK; PIPE ELEV. ABOVE FLOOR; AFF ABOVE FINISHED FLOOR; CUT IN FIELD; FIELD ORDER; CENTERLINE

SPRINKLER COUNT

SYMBOL	MAKE-MODEL	TYPE	S.I.N.	FINISH	CANOPY	ORIF.	K-FACTOR	DEG.	QUANTITY
⊙	TYCO TY-FRB	SSU-QR	TY3131	BRASS	N/A	1/2"	5.6	200°	64

TOTAL SPRINKLERS: THIS SHEET 64

REVISIONS

	DATE	ISSUE
FOR SUBMITTAL	12-10-15	#1
CLV COMMENTS	01-07-16	#2

TWENTY-FOUR HOUR SERVICE
FIRE SPRINKLER SYSTEM
DESIGN - INSTALLATION - SERVICE

Harmony Fire PROTECTION

3805 ROCKBOTTOM ST.
NORTH LAS VEGAS, NEVADA 89030
PH: (702)737-8331
FAX: (702)737-8330

TENANT IMPROVEMENTS
INSPECTIONS
NEVADA LIC. 43029A

PROJECT: 1923 AMMEX - WESTSIDE SCHOOL
ADDRESS: 330 W. WASHINGTON AVE.
CITY: LAS VEGAS, NV

TITLE: PIPING PLAN

REVIEWING AUTHORITY: LAS VEGAS FIRE RESCUE

DATE: 12-10-15 | SYS. NO: ONE | SHEET
SCALE: 1/4" = 1'-0" | GC PERMIT
DRAWN: T.L. ROE | 267070
FP - 02

GENERAL NOTES

1. CONTRACTOR TO MARK AND IDENTIFY WITHIN ACCESSIBLE CONCEALED FLOOR, FLOOR-CEILING, OR ATTIC SPACES THAT IDENTIFY WALL OF FIRE RESISTANCE OR SMOKE PROTECTED CONSTRUCTIONS.

NOT USED — 2

SCALE: N.T.S.

PER 2009 IBC RATED FIRE- RESISTANCE PERIOD FOR VARIOUS WALLS AND PARTITIONS.
TABLE 720.1(2) 3-1

MATERIAL NUMBER	ITEM	CONSTRUCTION	MINIMUM FINISHED THICKNESS FACE TO FACE (INCHES)			
			4hrs	3 hrs	2hrs	1hr
4. Solid Concrete[h,i]	3-1.1.[f,g]	Expanded slag or pumice	4.7	4.0	3.2	2.1
	3-1.2[f,g]	Expanded clay, shale or slate.	5.1	4.4	3.6	2.6
	3-1.3[f]	Limestone, cinders or air-cooled slag.	5.9	5.0	4.0	2.7
	3-1.4[g]	Calcareous or siliceous gravel.	6.2	5.3	4.2	2.8

FIRE RESISTANCE PERIOD FOR CMU WALLS — 4

SCALE: N.T.S.

PER 2009 IBC RATED FIRE- MINIMUM PROTECTION FOR FLOOR AND ROOF SYSTEMS.
TABLE 720.1(2) 20-1.1

MATERIAL	ITEM NUMBER	CONSTRUCTION	4hrs.	3 hrs	2hrs.	1hr	4hrs	3hrs	2hrs	1hr
21. Wood joist, wood I- joists, floor trusses and flat or pitched roof trusses spaced a maximum 24" o.c. with $\frac{1}{2}$" wood structural panel with exterior glue applied at right angles to top of joist or top chord of trusses with 8d nails. The wood structural panel thickness shall not be less than nominal $\frac{1}{2}$" nor less than required by Chapter 23.	21-1.1	Base layer $\frac{5}{8}$" Type x gypsum wallboard applied at right angles to joist or truss 24" o.c. with $1\frac{1}{4}$" Type S or Type W drywall screws 24" o.c. Face layer $\frac{5}{8}$" Type x gypsum wallboard or veneer base applied at right angles to joist or truss through base layer with $1\frac{7}{8}$" Type S and Type W drywall screws 12" o.c. at joints and intermediate joist or truss. Face layer Type G drywall screws placed 2" back on either side of face layer end joints, 12" o.c.				Varies				1-1/4

1 HOUR CEILING AND ROOF — 5

SCALE: N.T.S.

NOT USED — 6

SCALE: N.T.S.

NOT USED — 7

SCALE: N.T.S.

ONLINE CERTIFICATIONS DIRECTORY

System No. W-L-1039
XHEZ.W-L-1039
Through-penetration Firestop Systems

Page Bottom

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

Through-penetration Firestop Systems

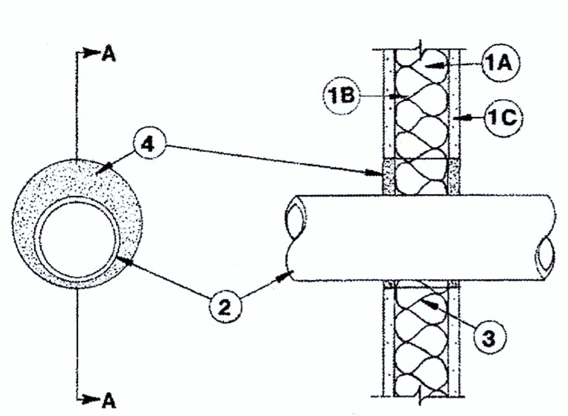
See General Information for Through-penetration Firestop Systems

System No. W-L-1039

March 24, 1999

F Rating — 1 Hr

T Rating — 0 and 1 Hr (See Item 2)



SECTION A-A

1. **Wall Assembly** — The fire rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. **Studs** — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.
   B. **Batts and Blankets*** — Nom 1-1/2 in. thick mineral wool batts friction fitted to fill interior of stud cavities.
   C. **Gypsum Board*** — The gypsum wallboard type, thickness, number of layers and orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening is 6 in.
2. **Through Penetrants** — One metallic pipe, conduit or tubing to be installed in either concentrically or eccentrically within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. **Steel Pipe** — Nom 4 in. diam (or smaller) Schedule 10 (or heavier) steel pipe. The annular space shall be min 1/4 to max 1-5/8 in. **When steel pipe is used T Rating is 0 hr.**
   B. **Conduit** — Nom 4 in. diam or smaller steel electrical metallic tubing or steel conduit. The annular space shall be min 1/4 to max 1-5/8 in. **When conduit is 1/2 in. diam or less, T Rating is 1 hr.**
   C. **Copper Tubing** — Nom 4 in. diam (or smaller) Type M (or heavier) copper tubing. The annular space shall be min 1/4 to max 1-5/8 in. **When copper tubing is used, T Rating is 0 hr.**
3. **Forming Material*** — Min 2-1/2 in. thickness of min 3.5 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Forming material to be recessed from both surfaces of wall to accommodate the required thickness of fill material.
   THERMAFIBER INC — Type SAF
4. **Fill, Void or Cavity Material*** — Min 1/2 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. Dry mix material mixed at a rate of 2.1 parts dry mix to 1 part water by weight in accordance with the accompanying installation instructions.
   UNITED STATES GYPSUM CO — Type FC

4A. **Fill, Void or Cavity Material*** — Not Shown — Two component fill material used as an alternate to Item 4. Min 1/2 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. Ready-mixed component mixed with accelerator component at a rate of 66 parts of ready-mixed component to 1 part of accelerator component by weight in accordance with the accompanying installation instructions.
UNITED STATES GYPSUM CO — Type RFC

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 1999-03-24

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FIRE RATING FOR WALL PENETRATION — 1

SCALE: N.T.S.

ONLINE CERTIFICATIONS DIRECTORY

Design No. L522
BXUV.L522
Fire-resistance Ratings - ANSI/UL 263

Page Bottom

Design/System/Construction/Assembly Usage Disclaimer

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- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

Design No. L522

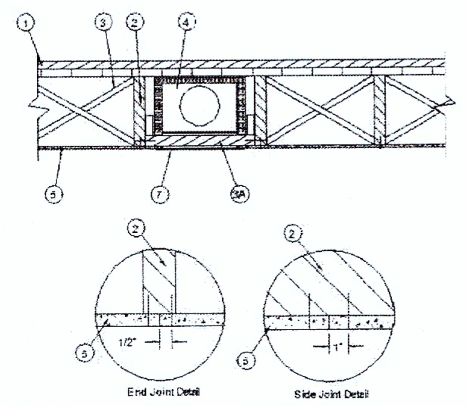
August 04, 2014

Unrestrained Assembly Rating — 1 Hr.

Finish Rating — 16 Min.

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



1. **Finish System** — The flooring system shall consist of one of the following:

System No. 1

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

Vapor Barrier — Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring — Min 1 by 4 in. T & G lumber installed perpendicular to trusses, or min 19/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered.

System No. 2

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

Vapor Barrier — Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring - Floor Topping Mixture* — Min 1-1/2 in. thickness of floor topping mixture having a min compressive strength of 1000 psi and a cast density of 100 plus or minus 5 pcf. Foam concentrate mixed 40:1 by volume with water and expanded at 100 psi through nozzle. Mixture shall consist of 1.4 cu feet of preformed foam concentrate to 94 lbs Type I Portland cement, 300 lbs of sand with 5-1/2 gal of water.

ELASTIZELL CORP OF AMERICA — Type FF.

System No. 3

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

Vapor Barrier — Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring - Floor Topping Mixture* — Min 1-1/2 in. thickness of floor topping mixture having a min compressive strength of 1000 psi and a cast density of 100 plus or minus 5 pcf. Foam concentrate mixed 40:1 by volume with water and expanded at 100 psi through nozzle. Mixture shall consist of 1.4 cu feet of preformed foam concentrate to 94 lbs Type I Portland cement, 62.5 lbs of Pea Gravel, 312.5 lbs of sand with 3-1/2 gal of water.

LITE-CRETE INC — Type I.

System No. 4

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

Vapor Barrier — Nom 0.010 in. thick commercial rosin-sized building paper.

Floor Mat Materials* — (Optional) — Floor mat material nom 5/64 in. (2mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1-1/4 in. of floor-topping mixture.

HACKER INDUSTRIES INC — Type Hacker Sound-Mat.

Alternate Floor Mat Materials - (Optional) — Floor mat material nom 1/4 in. (6mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1-1/4 in. (32mm) of floor-topping mixture.

HACKER INDUSTRIES INC — Type Hacker Sound-Mat II.

Alternate Floor Mat Materials - (Optional) — Floor mat material nom 1/8 in. (3mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1 in. (25mm)

HACKER INDUSTRIES INC — FIRM-FILL SCM 125

Alternate Floor Mat Materials - (Optional) — Floor mat material nom 1/4 in. (6mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1 in. (25mm)

HACKER INDUSTRIES INC — Type FIRM-FILL SCM 250, Quiet Qurl 55/025

Alternate Floor Mat Materials - (Optional) — Floor mat material nom 3/8 in. (10mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/4 in. (32mm)

HACKER INDUSTRIES INC — FIRM-FILL SCM 400, Quiet Qurl 60/040

Alternate Floor Mat Materials - (Optional) — Floor mat material nom 3/4 in. (19mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/2 in. (38mm)

HACKER INDUSTRIES INC — Type FIRM-FILL SCM 750, Quiet Qurl 65/075

Metal Lath (Optional) — For use with 3/8 in. (10 mm) floor mat materials, 3/8 in. expanded steel diamond mesh, 3.4 lbs/sq yd placed over the floor mat material. Hacker Floor Primer to be applied prior to the placement of the metal lath. When metal lath is used, floor topping thickness a nom 1-1/4 in. over the floor mat.

Finish Flooring - Floor Topping Mixture* — Min 1 in. thickness of floor topping mixture having a min compressive strength of 1100 psi. Mixture shall consist of 6.8 gal of water to 80 lbs of floor topping mixture to 1.8 cu ft of sand.

HACKER INDUSTRIES INC — Firm-Fill Gypsum Concrete, Firm-Fill 2010, Firm-Fill 3310, Firm-Fill 4010, Firm-Fill High Strength, Gyp-Span Radiant

System No. 5

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

Vapor Barrier — Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring - Floor Topping Mixture* — Min 1 in. thickness of floor topping mixture having a min compressive strength of 1000 psi. Mixture shall consist of 5 to 8 gal of water to 80 lbs of floor topping mixture to 2.1 cu ft of sand.

ULTRA QUIET FLOORS — Types UQF-A, UQF-Super Blend, UQF-Plus 2000

System No. 6

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

Vapor Barrier — Nom 0.010 in. thick commercial rosin-sized building paper.

Floor Mat Materials* — (Optional) - Nom 1/4 in. thick floor mat material loose laid over the subfloor. Maxxon Floor Primer to be applied to the surface of the mat prior to the floor topping placement. Floor topping thickness shall be as specified under **Floor Topping Mixture.**

MAXXON CORP — Type Acousti-Mat I, Acousti-Mat II, Acousti-Mat II HP.

Alternate Floor Mat Materials* - (Optional) — Nom 0.8 in. thick floor mat material loose laid over the subfloor with Crack Suppression Mat (CSM) loose laid over the floor mat material. Floor topping thickness shall be min 1-1/2 in.

MAXXON CORP — Type Acousti-Mat 3, Acousti-Mat 3 HP, Crack Suppression Mat (CSM)

Metal Lath (Alternate to Crack Suppression Mat (CSM)) — 3/8 in. expanded galvanized steel diamond mesh, 3.4 lbs/sq yd loose laid over the floor mat material. Floor topping thickness shall be min 1-1/2 in.

Fiber Glass Mesh Reinforcement — (Optional) — Maxxon Corp's "Maxxon Reinforcement (MR)" for use with or as an alternate to CSM or metal lath reinforcement, the materials consists of a plastic coated non-woven fiber glass mesh grid intended to suppress cracks in the Floor Topping Mixture.

Alternate Floor Mat Materials* - (Optional) — Nom 0.4 in. thick floor mat material loose laid over the subfloor. Maxxon Floor Primer to be applied to the surface of the mat prior to the floor topping placement. Floor topping thickness shall be min 1 in. Floor topping thickness shall be min 3/4 in. when used with Crack Suppression Mat (CSM), Metal Lath, or Maxxon Reinforcement (MR).

MAXXON CORP — Type Enkasonic 9110, Enkasonic 9110 HP.

Alternate Floor Mat Materials* - (Optional) — Nom 0.2 in. thick floor mat material loose laid over the subfloor. Maxxon Floor Primer may be applied to the surface of the mat prior to the floor topping placement. Floor topping thickness shall be as specified under **Floor Topping Mixture.**

MAXXON CORP — Type Acousti-Mat LP-R

Metal Lath (Optional) — For use with floor mat materials, 3/8 in. expanded galvanized steel diamond mesh, 3.4 lbs/sq yd or Maxxon Corp. UL Classified Crack Suppression Mat (CSM) loose laid over the floor mat material. Floor topping thickness shall be min 1 in.

MAXXON CORP — Type Crack Suppression Mat (CSM)

Fiber Glass Mesh Reinforcement — (Optional) — Maxxon Corp's "Maxxon Reinforcement (MR)" for use with or as an alternate to CSM or metal lath reinforcement, the materials consists of a plastic coated non-woven fiber glass mesh grid intended to suppress cracks in the Floor Topping Mixture.

Finish Flooring - Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1000 psi. Mixture shall consist of 3 to 7 gal of water to 80 lbs of floor topping mixture to 1.0 to 2.1 cu ft of sand.

MAXXON CORP — Type D-C, CC, GC2000, L-R, T-F, CT.

System No. 7

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

Vapor Barrier — Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Floor - Mineral and Fiber Board* — Min 1/2 in. thick, supplied in sizes ranging from 3 ft by 4 ft to 8 ft by 12 ft. All joints to be staggered a min of 12 in. with adjacent sub-floor joints.

HOMASOTE CO — Type 440-32 Mineral and Fiber Board

System No. 8

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

Vapor Barrier — Nom 0.010 in. thick commercial rosin sized building paper.

Finish Flooring - Floor Topping Mixture* — Min 1-1/2 in. thickness of floor topping mixture having a min compressive strength of 1050 psi and a cast density of 100 plus or minus 5 pcf. Foam concentrate mixed 40:1 by volume with water and expanded at 100 psi through nozzle. Mixture shall consist of 1.2 cu feet of preformed foam concentrate to 94 lbs Type I Portland cement, 300 lbs of sand with 5-1/2 gal of water.

AERIX INDUSTRIES — Floor Topping Mixture

System No. 9

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

Vapor Barrier — Nom 0.010 in. thick commercial rosin sized building paper.

Floor Mat Materials* — (Optional) - Nom 1/4 in. thick floor mat material loose laid over the subfloor. Maxxon Floor Primer to be applied to the surface of the mat prior to the floor topping placement. Floor topping thickness shall be as specified under **Floor Topping Mixture.**

MAXXON CORP — Type Acousti-Mat I, Acousti-Mat II, Acousti-Mat II HP.

Alternate Floor Mat Materials* - (Optional) — Nom 0.8 in. thick floor mat material loose laid over the subfloor with Crack Suppression Mat (CSM) loose laid over the floor mat material. Floor topping thickness shall be min 1-1/2 in.

MAXXON CORP — Type Acousti-Mat 3, Acousti-Mat 3 HP, Crack Suppression Mat (CSM)

Metal Lath (Alternate to Crack Suppression Mat (CSM)) — 3/8 in. expanded galvanized steel diamond mesh, 3.4 lbs/sq yd loose laid over the floor mat material. Floor topping thickness shall be min 1-1/2 in.

Fiber Glass Mesh Reinforcement — (Optional) — Maxxon Corp's "Maxxon Reinforcement (MR)" for use with or as an alternate to CSM or metal lath reinforcement, the materials consists of a plastic coated non-woven fiber glass mesh grid intended to suppress cracks in the Floor Topping Mixture.

Alternate Floor Mat Materials* - (Optional) — Nom 0.4 in. thick floor mat material loose laid over the subfloor. Maxxon Floor Primer to be applied to the surface of the mat prior to the floor topping placement. Floor topping thickness shall be min 1 in. Floor topping thickness shall be min 3/4 in. when used with Crack Suppression Mat (CSM), Metal Lath, or Maxxon Reinforcement (MR).

MAXXON CORP — Type Enkasonic 9110, Enkasonic 9110 HP.

Alternate Floor Mat Materials* - (Optional) — Nom 0.2 in. thick floor mat material loose laid over the subfloor. Maxxon Floor Primer may be applied to the surface of the mat prior to the floor topping placement. Floor topping thickness shall be as specified under **Floor Topping Mixture.**

MAXXON CORP — Type Acousti-Mat LP-R

Metal Lath (Optional) — For use with floor mat materials, 3/8 in. expanded galvanized steel diamond mesh, 3.4 lbs/sq yd or Maxxon Corp. UL Classified Crack Suppression Mat (CSM) loose laid over the floor mat material. Floor topping thickness shall be min 1 in.

MAXXON CORP — Type Crack Suppression Mat (CSM)

Fiber Glass Mesh Reinforcement — (Optional) — Maxxon Corp's "Maxxon Reinforcement (MR)" for use with or as an alternate to CSM or metal lath reinforcement, the materials consists of a plastic coated non-woven fiber glass mesh grid intended to suppress cracks in the Floor Topping Mixture.

Finish Flooring - Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1200 psi. Mixture shall consist of 4 to 7 gal of water mixed with 80 lbs of floor topping mixture and 1.4 to 1.9 cu ft of sand.

RAPID FLOOR SYSTEMS — Type RF, RFP, RFU, RFR, Ortecrete.

System No. 10

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring — Floor Topping Mixture* — Min 1 in. thickness of floor topping mixture, having a min compressive strength of 2100 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

BMI PRODUCTS OF NORTHERN ILLINOIS INC — Maxit 493

System No. 11

Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Vapor Barrier — (Optional) - Commercial asphalt saturated felt, 0.030 in. thick.

Vapor Barrier — (Optional) - Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring* — Min 3/4 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance. See Floor- and Roof-Topping Mixtures (CCOX) category for names of Classified Companies.

Floor Mat Materials* — (Optional) - Nom. 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 55/025 and Quiet Qurl 55/025 N

Alternate Floor Mat Materials* — (Optional) - Floor mat material Nom. 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 60/040 and Quiet Qurl 60/040 N

Alternate Floor Mat Materials* — (Optional) - Floor mat material Nom. 3/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 1/2 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 65/075, Quiet Qurl 65/075 N

Alternate Floor Mat Materials* — (Optional) - Floor mat material Nom. 1/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 52/013 and Quiet Qurl 52/013 N

Alternate Floor Mat Materials* — (Optional) - Floor mat material Nom. ¼ in. entangled net core with a compressible fabric attached to the bottom loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.

KEENE BUILDING PRODUCTS CO INC — Quiet Qurl 55/025 MT and Quiet Qurl 55/025 N MT

System No. 12

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

Vapor Barrier — Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

ALLIED CUSTOM GYPSUM — Accu-Crete, AccuRadiant, AccuLevel G40 and AccuLevel SD30

Floor Mat Material* — (Optional) - Floor mat material nominal 2 - 9.5 mm thick loose laid over the subfloor. Floor topping shall be a min of 1 in.

ALLIED CUSTOM GYPSUM — Type AccuQuiet P80, Type AccuQuiet C40, AccuQuiet D13, Type AccuQuiet RSM 20, Type AccuQuiet RSM 32, Type AccuQuiet RSM 48, Type AccuQuiet RSM 64, Type AccuQuiet RSM 120, and Type AccuQuiet D-18.

System No. 13

Subflooring — Min 23/32 in. thick T&G wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panels to be perpendicular to the trusses with end joints staggered 4 ft. Panels secured to trusses with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Gypsum Board* — One layer of nom 5/8 in. thick, 4 ft wide gypsum board, installed with long dimension perpendicular to joists. Gypsum board secured with 1 in. long No. 6 Type W bugle head steel screws spaced 12 in. OC and located a min of 1-1/2 in. from side and end joints. The joints of the gypsum board are to be staggered a minimum of 12 inches from the joints of the subfloor.

GEORGIA-PACIFIC GYPSUM L L C — Type DS

Floor Mat Materials* — (As an alternate to the single layer gypsum board) - Floor mat material loose laid over the subfloor.

MAXXON CORP — Type Acousti-Mat I, Acousti-Mat II, Acousti-Mat II HP, Acousti-Mat 3, Acousti-Mat 3 HP, Enkasonic 9110, Enkasonic 9110 HP, Acousti-Mat LP-R.

Gypsum Board* — (For use when floor mat is used) Two layers of nom 5/8 in. thick, 4 ft wide gypsum board, installed with long dimension perpendicular to joists on top of the floor mat material. Gypsum board secured to each other with 1 in. long No. 6 Type G bugle head steel screws spaced 12 in. OC and located a min of 1-1/2 in. from side and end joints. The joints of the gypsum board are to be staggered a minimum of 12 inches in between layers and from the joints of the subfloor.

GEORGIA-PACIFIC GYPSUM L L C — Type DS

System No. 14

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

Vapor Barrier — (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring - Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a minimum compressive strength of 1800 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

UNITED STATES GYPSUM CO — Types LRK, HSLRK, CSD

Floor Mat Materials* — (Optional) - Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.

UNITED STATES GYPSUM CO — Types SAM, LEVELROCK® Brand Sound Reduction Board, LEVELROCK® Brand Floor Underlayment SRM-25

System No. 15

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

Vapor Barrier — Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring - Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

DEPENDABLE LLC — GSL M3.4, GSL K2.6 and GSL RH

Floor Mat Materials* — (Optional) - Nom. 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 55/025 and Quiet Qurl 55/025 N

Alternate Floor Mat Materials* — (Optional) - Floor mat material Nom. 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 60/040 and Quiet Qurl 60/040 N

Alternate Floor Mat Materials* — (Optional) - Floor mat material Nom. 3/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1-1/2 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 65/075, Quiet Qurl 65/075 N

Alternate Floor Mat Materials* — (Optional) - Floor mat material Nom. 1/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 52/013 and Quiet Qurl 52/013 N

Alternate Floor Mat Materials* — (Optional) - Floor mat material Nom. ¼ in. entangled net core with a compressible fabric attached to the bottom loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.

KEENE BUILDING PRODUCTS CO INC — Quiet Qurl 55/025 MT and Quiet Qurl 55/025 N MT

2. **Wood Joists** — Min 2 by 10 in., spaced 16 in. OC and effectively fireblocked in accordance with local codes.

3. **Cross Bridging** — Min 1 by 3 in. or min 2 by 10 in. solid blocking.

3A. **Horizontal Bridging** — Used in lieu of Item 3 in same joist bay as ceiling damper (Item 4), when ceiling damper is employed. Wood 2 by 4 in. secured between joists with nails.

4. **Ceiling Damper*** — (Optional) - Max nom area shall be 190 sq in. Max rectangular size shall be 12 in. wide by 16-1/2 in. long. Max height of damper shall be 8-3/4 in. Aggregate damper openings shall not exceed 99 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille (Item 7) shall be installed in accordance with installation instructions.

AIR KING VENTILATION PRODUCTS — Series AS, Series AK

AIR MANAGEMENT INC — Models AMI-50-CD-WG-B, AMI-50-CD-WG-B/VC

CENTRAL VENTILATION SYSTEMS CO L L C — Models C-S/R-HC(-A), C-RD-HC(-A)

GREENHECK FAN CORP — Model CRD-1WJ

METAL INDUSTRIES INC — Models CD-S/R-HC, CD-S/R-HC-A, CD-RD-HC, CD-RD-HC-A

METROPOLITAN AIR TECHNOLOGY — Model C-S/R-HC

NCA MFG INC — Models CD-S/R-HC, CD-S/R-HC-A, CD-RD-HC, CD-RD-HC-A

PRICE INDUSTRIES LTD — Models CD-S/R-HC, CD-RD-HC

RUSKIN COMPANY — Model CFD7

UNITED ENERTECH CORP — Models C-S/R-HC(-A), C-RD-HC(-A)

5. **Gypsum Board*** — Nom 1/2 in. thick, 48 in. wide gypsum board, installed with long dimension perpendicular to joists. Gypsum board secured with 1-3/4 in. long 5d nails spaced 8 in. OC. Nails located 1/2 and 1 in. from butted ends and side joints, respectively. End joints of gypsum board in adjacent courses staggered.

AMERICAN GYPSUM CO — Type AG-C.

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFC-C/A.

GEORGIA-PACIFIC GYPSUM L L C — Types 5, DAFC, 16 C

NATIONAL GYPSUM CO — Type FSK-1, FSK-C, FSK-G, FSW-1, FSW-C or FSW-G.

6. **Finishing System** — (Not Shown) - Vinyl, dry or premixed joint compound, applied in two coats to joints and screw-heads. Nom 2 in. wide paper tape embedded in first layer of compound over all joints. As an alternate, nom 3/32 in. thick veneer plaster may be applied to the entire surface of gypsum board.

7. **Grille** — Steel grille, installed in accordance with the installation instructions provided with the ceiling damper

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2014-08-04

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Riser Detail 1923
Riser Detail 1998
SEE RFI #021-001

1 HOUR FLOOR @ FIRE RISER ROOM — 3

SCALE: N.T.S.

NOT USED — 8

SCALE: N.T.S.

REVISIONS

1 PLAN CHECK REVISIONS - 9/4/14
2 PLAN CHECK REVISIONS - 10/7/14
3 PLAN CHECK REVISIONS - 12/3/14

ARCHITECT

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© KME Architects LLC. 2014
6765 WEST RUSSELL ROAD, SUITE 200
LAS VEGAS, NEVADA 89118
P: 702-888-2088 / F: 702-888-2089
WEB: www.kmearchitects.com

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LAS VEGAS, NEVADA 89106

CLV PLANS LIBRARY NUMBER: 715-175-1
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FIRE RATED DETAILS AND SPECIFICATIONS

STAMP

MELVIN D. GREEN
REGISTERED
No. 2249
ARCHITECT
STATE OF NEVADA

AUGUST 4, 2014

CONSTRUCTION DOCUMENTS

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6535
FAX: (702) 382-3232
TDD: (702) 386-9108

DRAWN	L.R.
FILE	2012-007
DATE	08-11-2014
SCALE	NTS
BID NO	12.43221-TF
CLV DWG NO	715-175-1
SHT NO	F4.01

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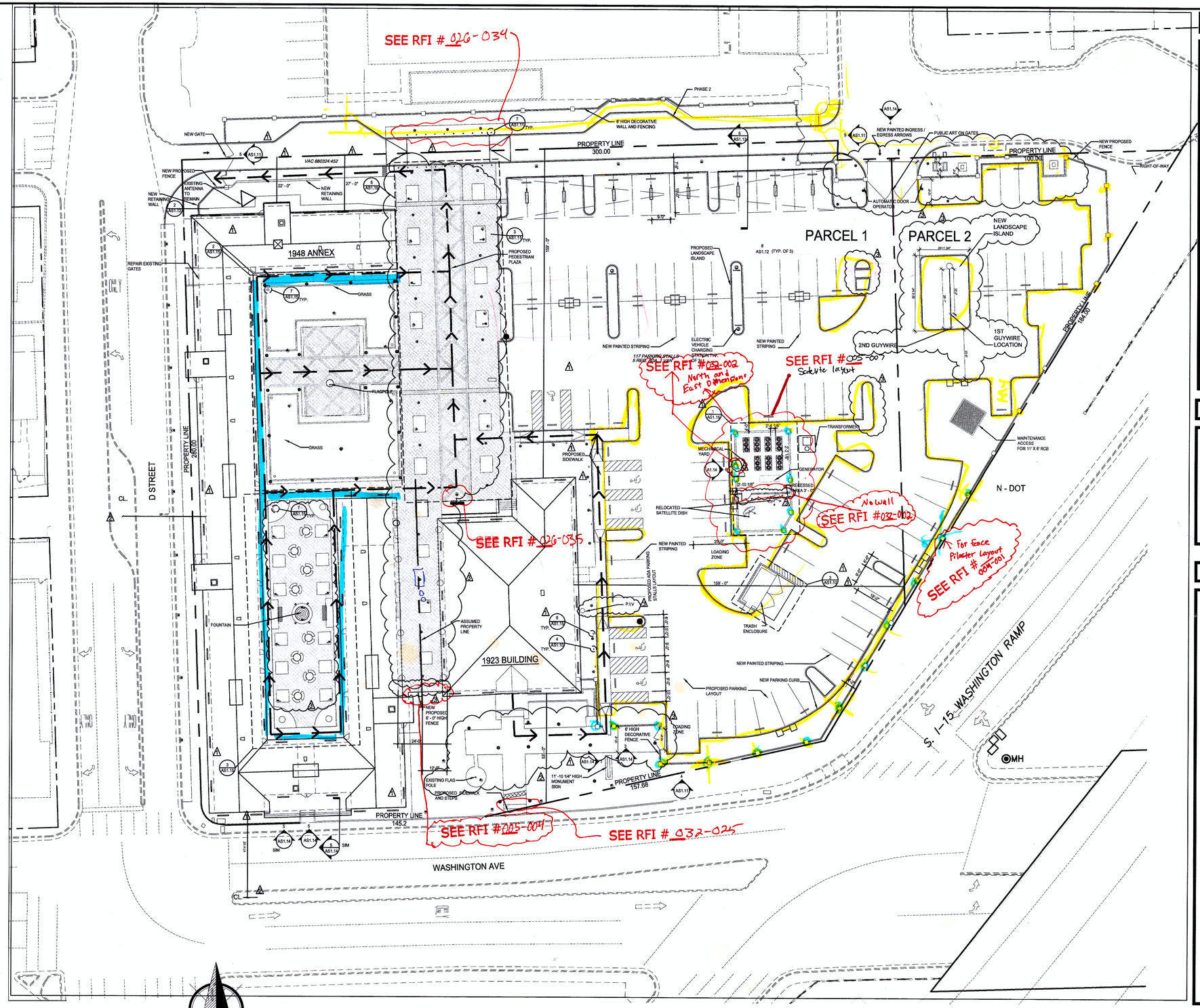
REVISED 8/14/13



ARCHITECTURAL SITE PLAN

SCALE: N.T.S.

1

PROJECT SITE ANALYSIS

BANQUET/MEETING ROOMS: 2,204 S.F.
= (1 SPACE/100 S.F.)= 2,204/100 =22.04 SPACES
PARKING REQUIRED: 22.04 STALLS

EXHIBIT SPACE: 2334 S.F.
= (1 SPACE/300 S.F.) = 2,334 S.F./300 = 7.78 SPACES
PARKING REQUIRED: 7.78 STALLS

1923 OFFICES: 221 S.F.
= (1 SPACE/300 S.F.) = 221 S.F. / 300 = 0.74 SPACES
PARKING REQUIRED: 0.74 STALLS

1948 OFFICES: 4,088
= (1 SPACE/300 S.F.)= 4,088 S.F./300 = 13.63 SPACES
PARKING REQUIRED: 13.63 STALLS

CAFE SEATING (INTERIOR): 750
=(1 SPACE/50 S.F.)= 750 S.F./50 = 15 SPACES
PARKING REQUIRED: 15 STALLS

CAFE EXTERIOR SEATING: 500 S.F.
=(1 SPACE/50 S.F.)= 500 S.F./50 = 10 SPACES
PARKING REQUIRED: 10 STALLS

CAFE KITCHEN: 708 S.F.
=(1 SPACE/200 S.F.) = 708 S.F./ 200 = 3.54 SPACES
PARKING REQUIRED: 3.54 STALLS

WEST RETAIL SPACE: 5,220 S.F.
=(1 SPACE/175 S.F.)= 5,220 S.F./175 = 29.83 SPACES
PARKING REQUIRED: 29.83 STALLS

NORTH RETAIL SPACE: 2,364
=(1 SPACE/175 S.F.)= 13.51 SPACES
PARKING REQUIRED: 13.51 STALLS

TOTAL PARKING REQUIRED		TOTAL PARKING PROVIDED	
STANDARD STALLS	112	STANDARD STALLS	108
H.C. ACCESSIBLE (H)	5	H.C. ACCESSIBLE (H)	5
PARKING REQUIRED:	117	PARKING PROVIDED:	113

PROJECT SITE ANALYSIS

SITE TABULATION

		PARCEL NUMBER
SITE AREA (S.F.)	125,785 S.F.	139-27-201-004
SITE AREA (ACRES)	2.89	139-27-211-061
BUILDING COVERAGE	19,660 S.F.	
ACTUAL SITE COVERAGE	14%	

BUILDING(S) SQUARE FOOTAGE

1948 ANNEX:	13,435 S.F	OCCUPANCY GROUP:	M, A-2, B	TYPE OF CONSTRUCTION:	5B
1923 BUILDING:	5,697 S.F	OCCUPANCY GROUP:	A-3	TYPE OF CONSTRUCTION:	5B

TOTAL BUILDING SQUARE FOOTAGE: 19,660 S.F.

GENERAL NOTES

1. REFER TO CIVIL DRAWINGS FOR HORIZONTAL DIMENSIONS NOT SHOWN
2. FOLLOW ALL RECOMMENDATIONS AND REQUIREMENTS OF THE GEOTECHNICAL INVESTIGATION REPORT
3. CMU CONTRACTOR SHALL COORDINATE WITH FENCING CONTRACTOR.
4. CONCRETE PAVING PER SOILS REPORT
5. TURF, LANDSCAPING AND IRRIGATION SYSTEMS TO BE INSTALLED BY CONTRACTOR. COORDINATE WITH LANDSCAPE DRAWINGS
6. COORDINATE WITH CIVIL DRAWINGS FOR RETAINING WALLS.
7. COORDINATE WITH CIVIL DRAWING FOR PARKING STALL DIMENSIONS AND PLANTER AREAS.
8. CHANGES IN LEVEL ALONG AN ACCESSIBLE ROUTE SHALL COMPLY WITH ANSI A117.1 SEC. 303.3 CHANGES IN LEVEL OF 1/4" HIGH MAXIMUM ARE PERMITTED TO BE VERTICAL WITHOUT EDGE TREATMENT; CHANGES BETWEEN 1/4" AND 1/2" HIGH MAXIMUM ARE TO BE BEVELED WITH SLOPE NOT STEEPER THAN 1:2; CHANGES GREATER THAN 1/2" ARE TO BE ACCOMPLISHED WITH CURB RAMP, RAMP OR ELEVATOR, ANSI A117.1 SEC 405 or 406
9. THE RUNNING SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:20.
10. PORTIONS OF AN ACCESSIBLE ROUTE WITH RUNNING SLOPES STEEPER THAN 1:20 ARE RAMPS AND SHALL COMPLY WITH ANSI A117.1 SEC. 403.3. THE CROSS SLOPE OF AN ACCESSIBLE ROUTE SHALL NOT BE STEEPER THAN 1:48. ANSI A117.1 SEC. 403.3
11. SLOPE ALL SLABS 1/8"/ FT AWAY FROM BUILDING
12. S.P.= STANDARD PARKING

⇐ ACCESSIBLE PATH TO PUBLIC RIGHT OF WAY

REVISIONS
1 PLAN CHECK REVISIONS - 5/4/14
2 PLAN CHECK REVISIONS - 10/7/14
3 PLAN CHECK REVISIONS - 12/3/14

ARCHITECT
kme ARCHITECTS
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6765 WEST RUSSELL ROAD, SUITE 200
LAS VEGAS, NEVADA 89118
P: 702-868-2088 / F: 702-868-2089
WEB: www.kmearchitects.com
CONSULTANT

WESTSIDE SCHOOL HISTORIC REHABILITATION

330 W. WASHINGTON AVE.
LAS VEGAS, NEVADA 89106

BID NUMBER: 12.43221-TF

CLV PLANS LIBRARY NUMBER: 715-175-1

ARCHITECTURAL SITE PLAN

STAMP
MELVIN D. GREEN REGISTERED No. 2249 ARCHITECT STATE OF NEVADA

AUGUST 4, 2014

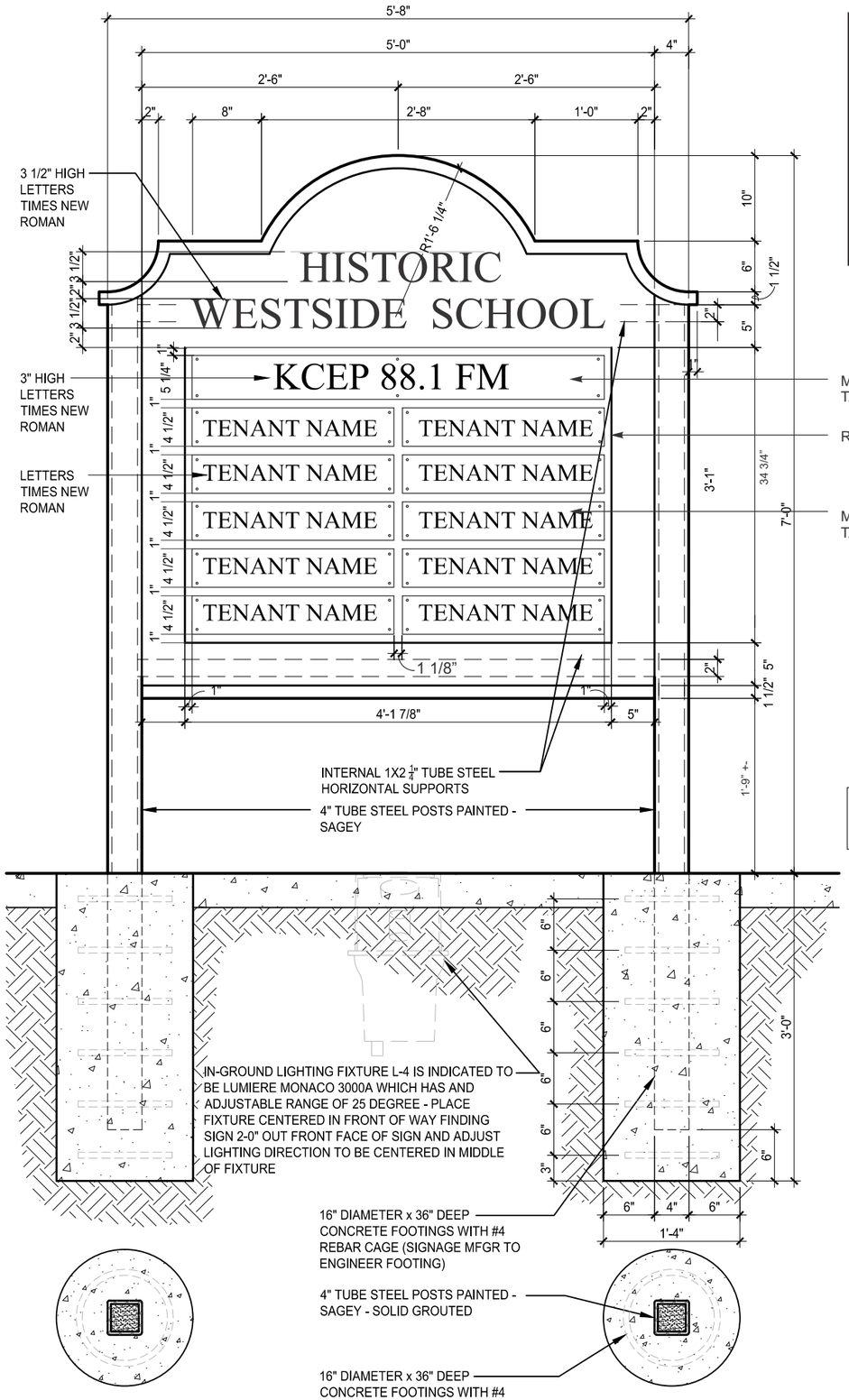
CONSTRUCTION DOCUMENTS

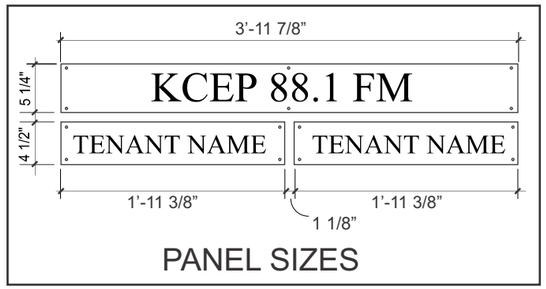
OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6535
FAX: (702) 382-3232
TDD: (702) 386-9108

DRAWN: L.R.
FILE: 2012-007
DATE: 08-11-2014
SCALE: NTS
BID NO: 12.43221-TF
CLV DWG NO: 715-175-1
SHT NO: AS1.00

REVISED 8/14/13

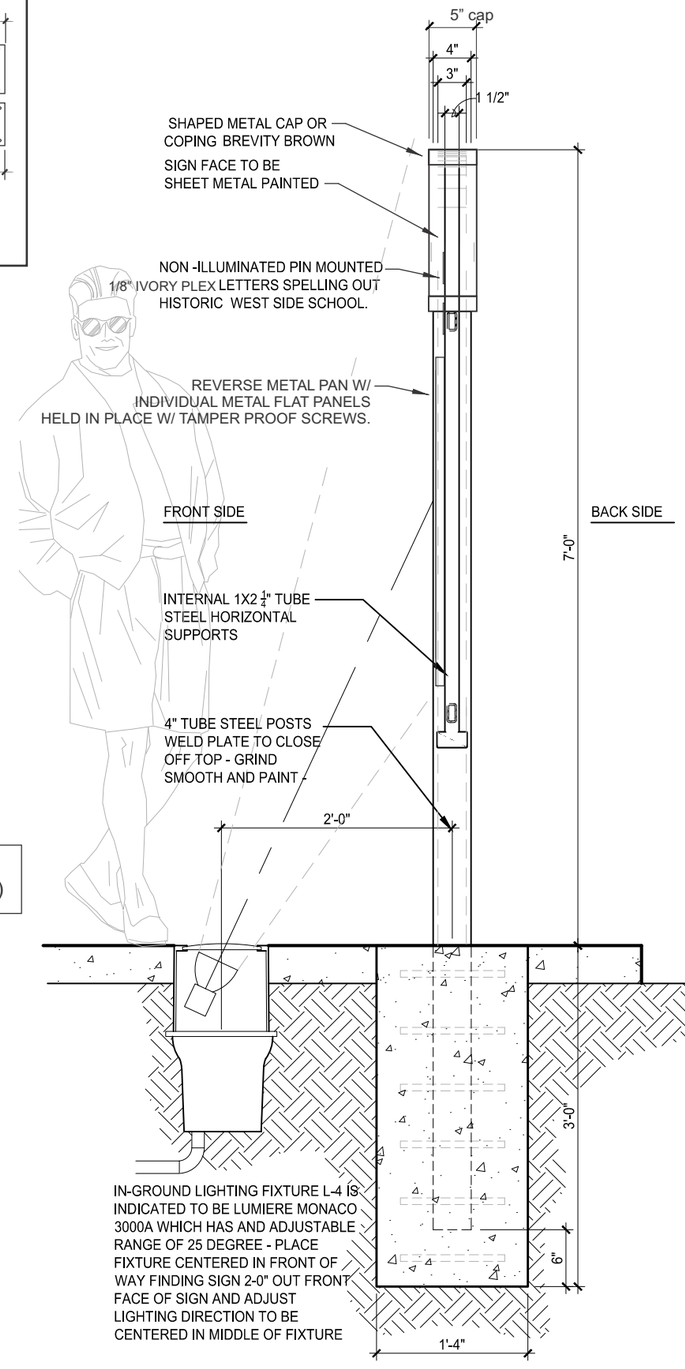




PANEL SIZES

TAMPER PROOF SCREW

Paint all exposed metal: Brevity Brown sw 6068 semi gloss finish. (CAP, BODY, RETAINERS, H-BARS)



DOUBLE FACE MONUMENT SIGN

(1) REQ'D

SCALE: 3/4"=1'-0"

R9-CHNG PLEX SLATS TO METAL W/ SCREWS M.E. 3-16-16

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Building Quality Signage Since 1901

Revisions:
1 CHANGE COLORS M.E. 2-5-16
2 R8: DELETE 1" OFF HEIGHT M.E. 3-8-16
3
4
5
6

Account Rep: M.ZANNIS

Project Manager: C.RODERY

Drawn By: M.ELLIS

Project / Location:

WESTSIDE HISTORIC REHAB

330 W. WASHINGTON AVE
LAS VEGAS NV.
89106

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Client Approval/Date:

Landlord Approval/Date:

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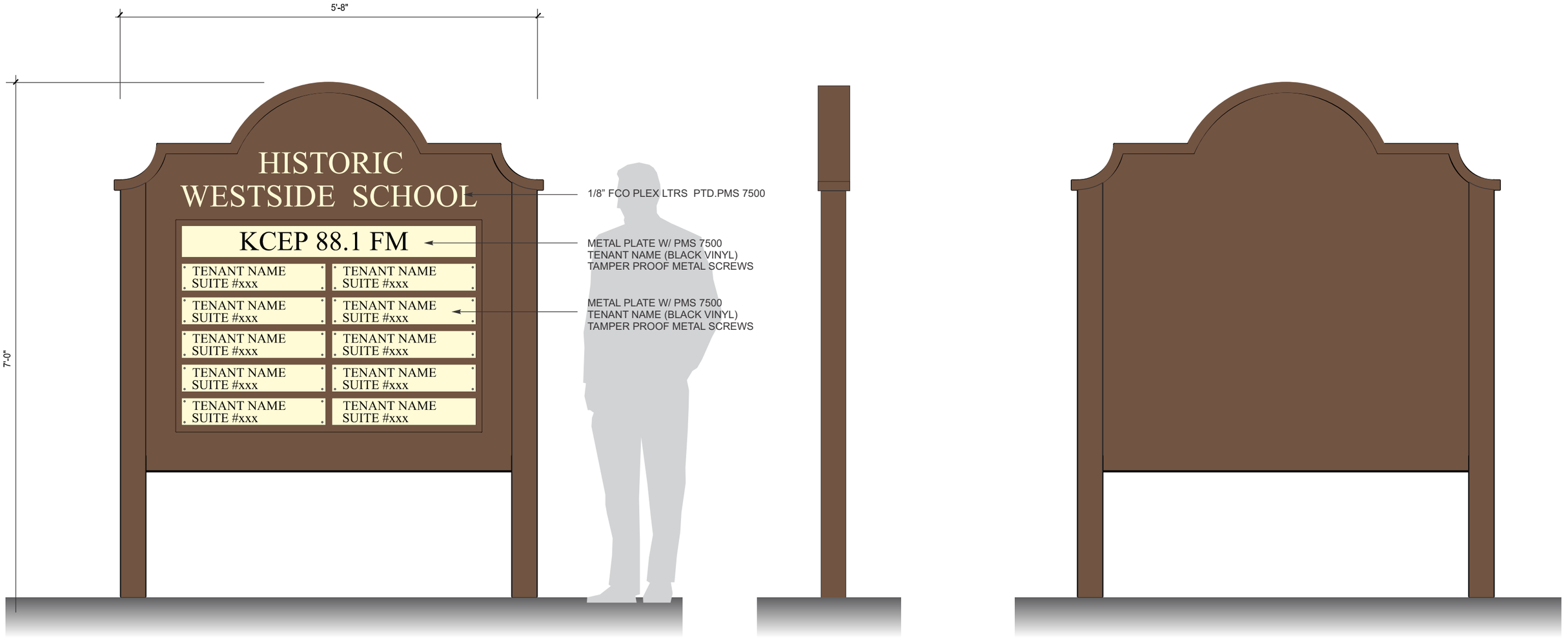
Job Number:

Date: 5-11-16

Sheet Number: 1 Of 2

Design Number: 21-06667-00



FRONT **PROFILE** **BACK**

SINGLE FACE MONUMENT SIGN

(1) REQ'D

SCALE: 1/2"=1'-0"

PMS 7500

Brevity Brown sw 6068

R9-CHNG PLEX SLATS TO METAL W/ SCREWS M.E. 3-16-16

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Revisions:
CHANGE COLORS M.E. 2-5-16

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Client Approval/Date:

Landlord Approval/Date:

Account Rep: M.ZANNIS
Project Manager: C.RODERY
Drawn By: M.ELLIS

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Project / Location:
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Job Number:
Date: 5-11-16
Sheet Number: 2 Of 2
Design Number: 21-06667-00

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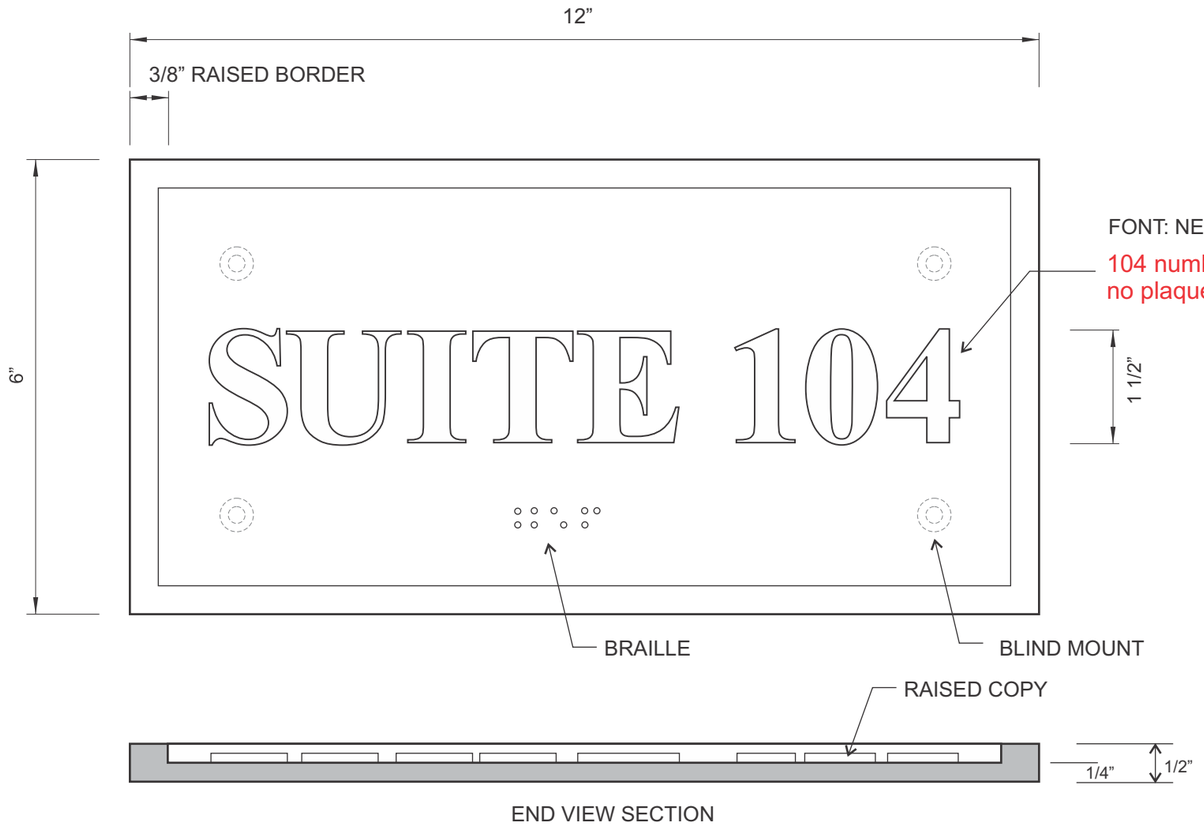


END VIEW SECTION

FONT: NEW TIMES ROMAN

104 number shown as example only, no plaques have this number.

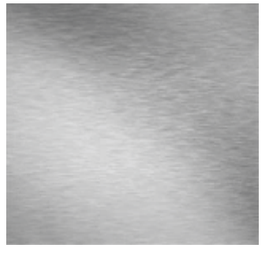
PLAQUE TYPE A - SINGLE SUITE

SCALE: HALF SIZE

TYPICAL PLAQUE

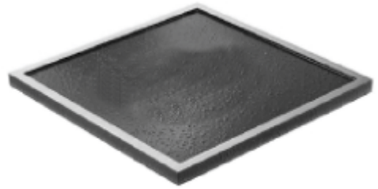
104 number shown as example only, no plaques have this number.

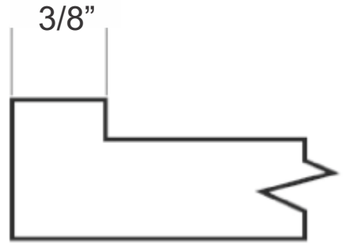
PLAQUE LIST:
9 TOTAL
SUITE 101
SUITE 105
SUITE 106
SUITE 110
SUITE 111
SUITE 117
SUITE 118
SUITE 123
SUITE 125



BORDER & COPY
(BRUSHED ALUM.)

Type A-Blind Mount
Threaded rods screwed into back of plaque and placed into cement filled holes.





SINGLE LINE BORDER

STIPPLE BACKGROUND
(BLACK) NON GLOSS

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Building Quality Signage Since 1901

Revisions:
1
2
3
4
5
6

Account Rep: M.ZANNIS

Project Manager: C.RODERY

Drawn By: M.ELLIS

Project / Location:

WESTSIDE HISTORIC REHAB

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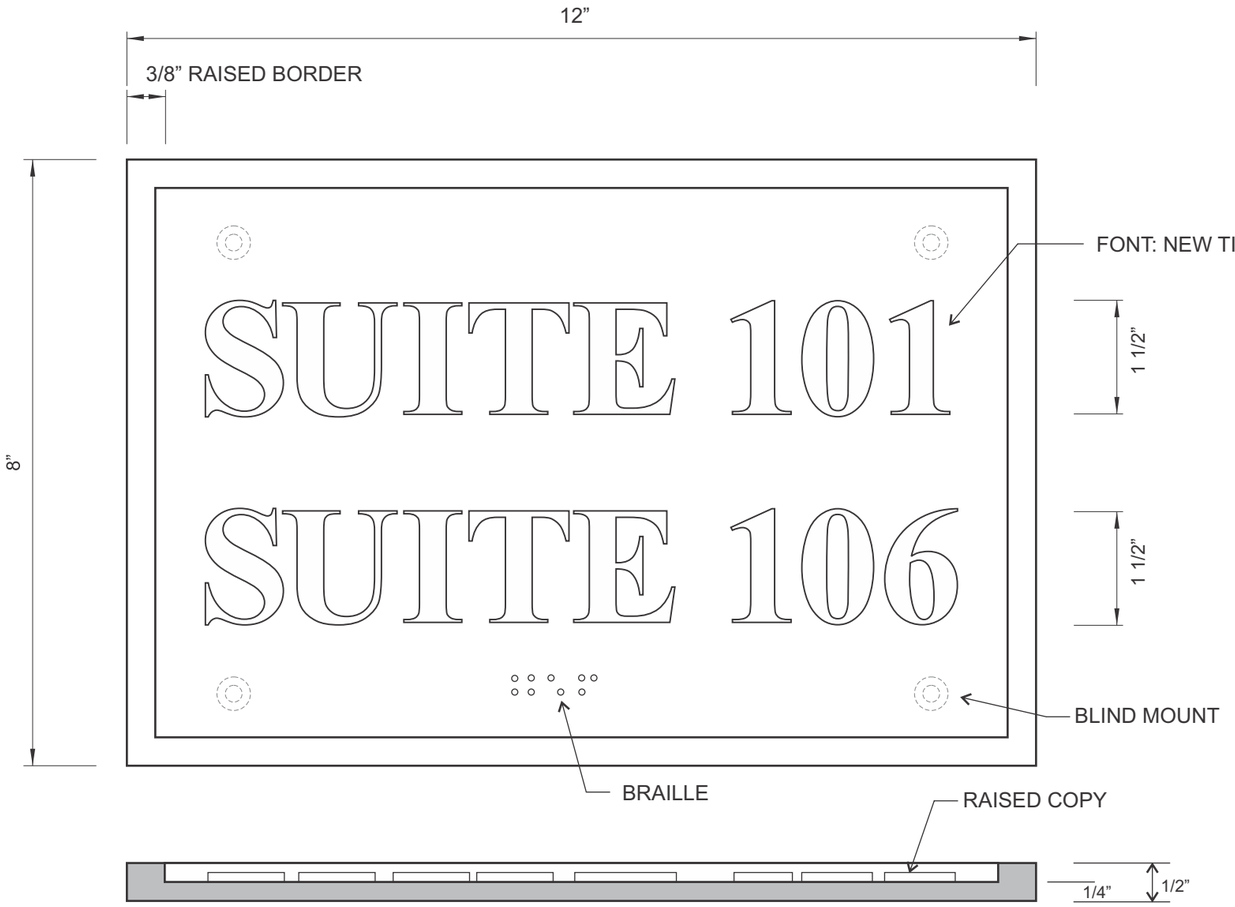
Job Number:

Date: 3-23-16

Sheet Number: 1 Of 3

Design Number: 21-06316-00

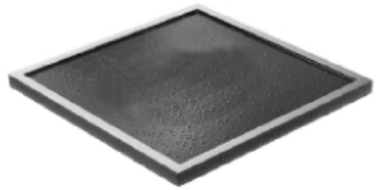


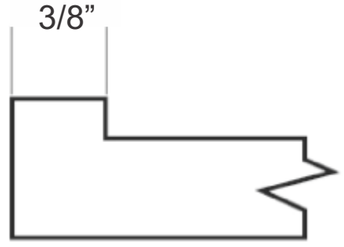
END VIEW SECTION

PLAQUE LIST:
2 TOTAL
SUITE 101
SUITE 106

SUITE 105
SUITE 112

Type A-Blind Mount
Threaded rods screwed into back of plaque and placed into cement filled holes.





SINGLE LINE BORDER

PLAQUE TYPE B - DOUBLE SUITE

SCALE: HALF SIZE

TYPICAL PLAQUE

BORDER & COPY
(BRUSHED ALUM.)

STIPPLE BACKGROUND
(BLACK) NON GLOSS

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Revisions:
1
2
3
4
5
6

Account Rep: M.ZANNIS

Project Manager: C.RODERY

Drawn By: M.ELLIS

Project / Location:

WESTSIDE HISTORIC REHAB

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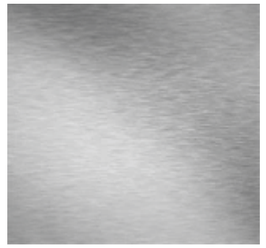
Job Number:

Date: 3-23-16

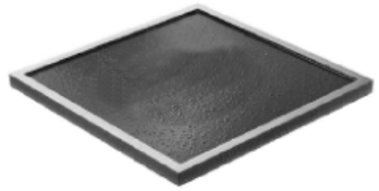
Sheet Number: 2 Of 3

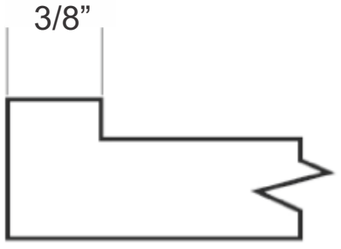
Design Number: 21-06316-00



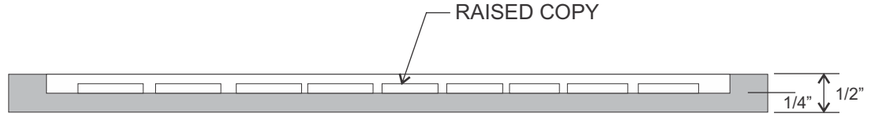
BORDER, COPY
& GRAPHICS
(BRUSHED ALUM.)

Type A-Blind Mount
Threaded rods screwed into back of plaque and placed into cement filled holes.





SINGLE LINE BORDER



END VIEW SECTION

TYPICAL PLAQUE

STIPPLE BACKGROUND
(BLACK) NON GLOSS

PLAQUE TYPE C - RESTROOMS

SCALE: HALF SIZE

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Revisions:
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Account Rep: M.ZANNIS

Project Manager: C.RODERY

Drawn By: M.ELLIS

Project / Location:

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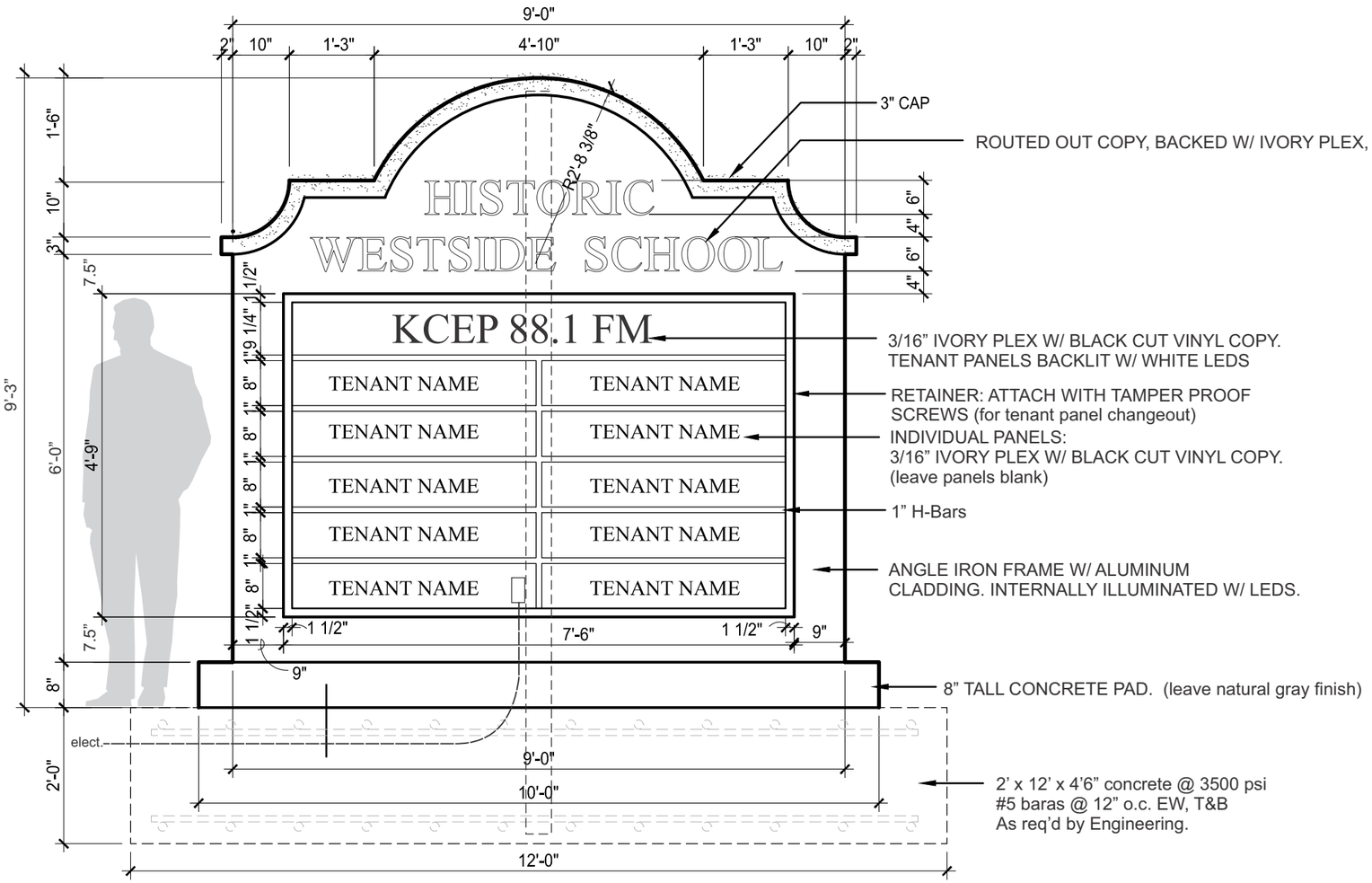
Job Number:

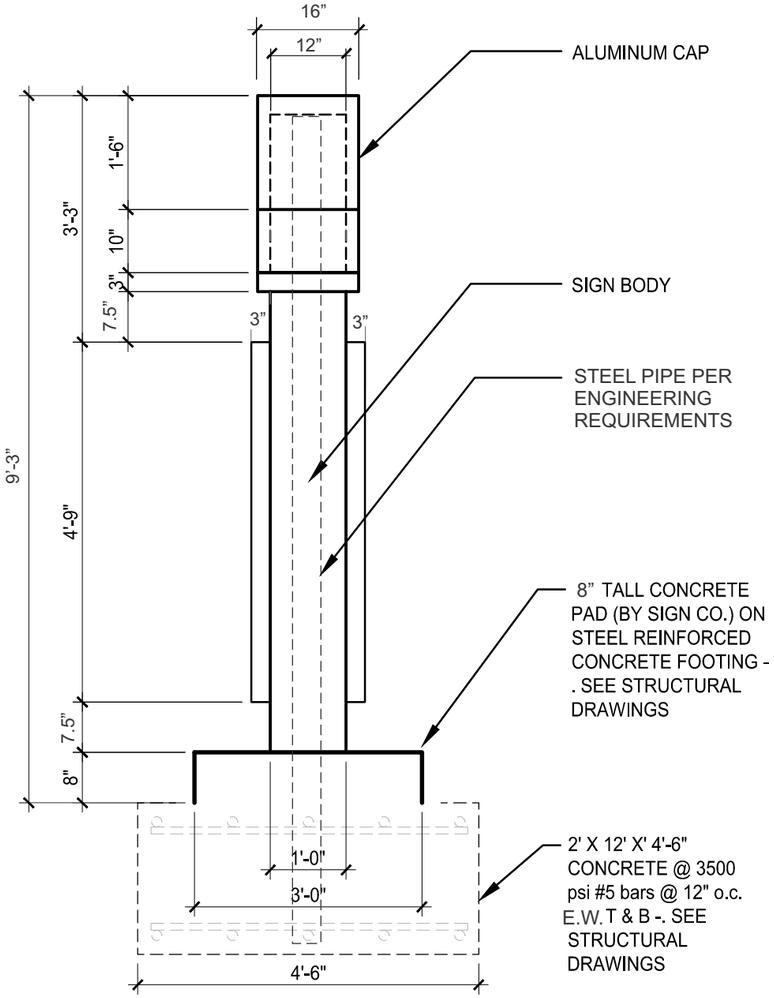
Date: 3-23-16

Sheet Number: 3 Of 3

Design Number: 21-06316-00

Paint all exposed metal: Brevity Brown sw 6068
semi gloss finish. (CAP, BODY, RETAINERS, H-BARS)





R8: DELETE 1" OFF HEIGHT M.E. 3-8-16

DOUBLE FACE MONUMENT SIGN

(1) REQ'D

SCALE: 1/2"=1'-0"

R9-CHNG PLEX SLATS TO METAL W/ SCREWS M.E. 3-16-16

ADEQUATE POWER AS DESIGNATED BY FEDERAL HEATH TO SIGN LOCATION(S) TO BE PROVIDED BY OTHERS.

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Building Quality Signage Since 1901

Revisions:
CHANGE COLORS M.E. 2-5-16
R8: DELETE 1" OFF HEIGHT M.E. 3-8-16
R9-CHNG PLEX SLATS TO METAL W/ SCREWS M.E. 3-16-16

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Client Approval/Date:

Landlord Approval/Date:

Account Rep: M.ZANNIS
Project Manager: C.RODERY
Drawn By: M.ELLIS

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Job Number:
Date: 1-7-16
Sheet Number: 1 Of 4
Design Number: 210631600 R9

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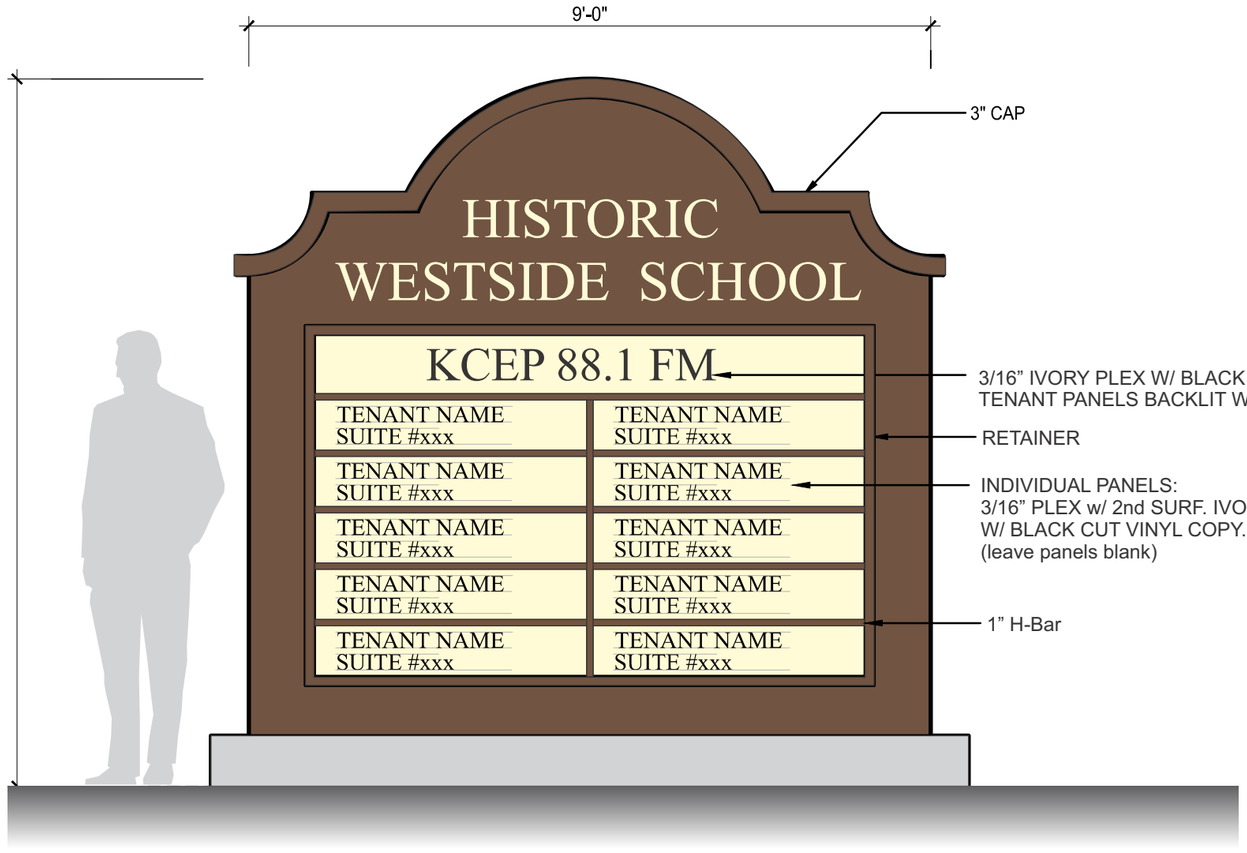
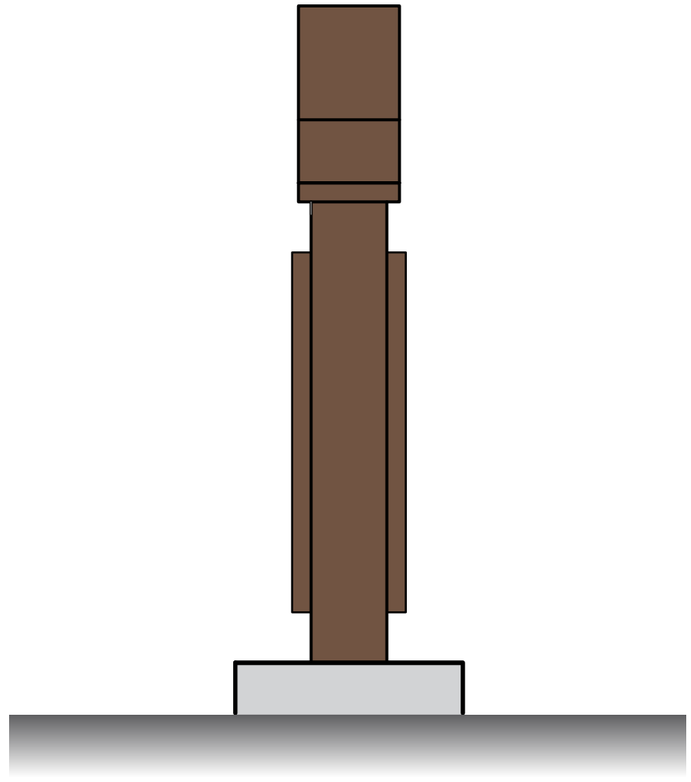
Paint all entire sign: Brevity Brown sw 6068
semi gloss finish. (CAP, BODY, RETAINERS, H-BARS)





R8: DELETE 1" OFF HEIGHT M.E. 3-8-16

DOUBLE FACE MONUMENT SIGN (1) REQ'D

SCALE: 1/2"=1'-0"

R9-CHNG PLEX SLATS TO METAL W/ SCREWS M.E. 3-16-16

ELECTRICAL NOTE: ADEQUATE ELECTRICAL POWER TO BE BROUGHT TO SITE OF SIGN BY OWNER..

2146
IVORY
PLEX

Brevity Brown
sw 6068

FEDERAL HEATH
SIGN COMPANY
www.FederalHeath.com
3900 W. Dewey Drive Las Vegas, NV 89118
(702) 739-9466 Fax (702) 795-0378

Manufacturing Facilities:
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Cincinnati - Westerville - Knoxville - Tunica
Atlanta - Tampa - Daytona Beach - Winter Park

Building Quality Signage Since 1901

Revisions:
CHANGE COLORS M.E. 2-5-16
R8: DELETE 1" OFF HEIGHT M.E. 3-8-16

Colors Depicted In This Rendering May Not Match Actual Finished Materials. Refer To Product Samples For Exact Color Match.

Client Approval/Date:

Landlord Approval/Date:

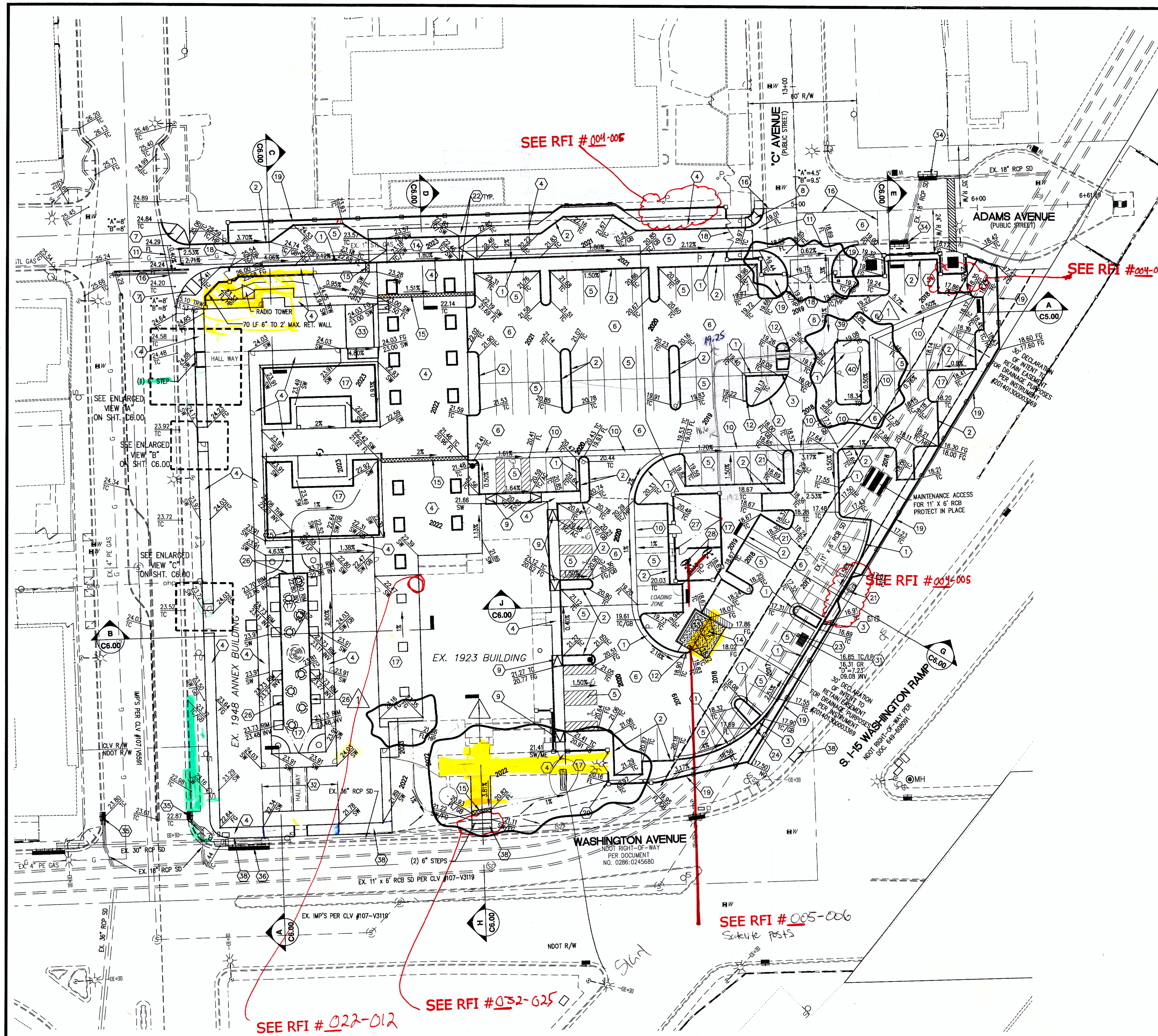
Account Rep: M.ZANNIS
Project Manager: C.RODERY
Drawn By: M.ELLIS

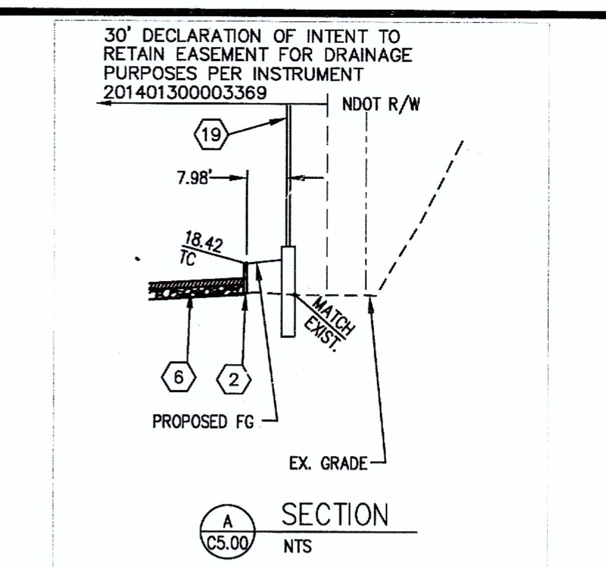
Underwriters Laboratories Inc. ELECTRICAL TO USE U.L.-48 LISTED COMPONENTS AND SHALL MEET ALL N.E.C. STANDARDS

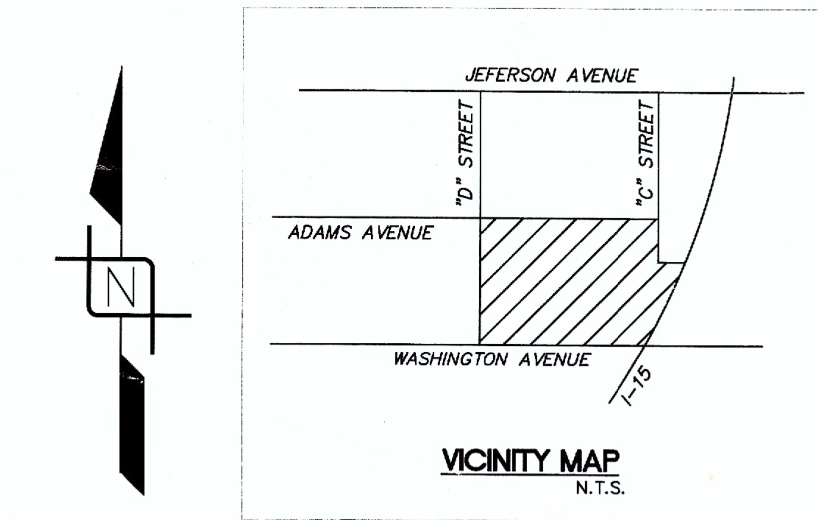
Project / Location:
WESTSIDE HISTORIC REHAB
330 W. WASHINGTON AVE
LAS VEGAS NV.
89106

Job Number:
Date: 1-7-16
Sheet Number: 3 Of 4
Design Number: 210631600 R9

This original drawing is provided as part of a planned project and is not to be exhibited, copied or reproduced without the written permission of Federal Heath Sign Company, LLC or its authorized agent. © 2008







GRAPHIC SCALE

(IN FEET)
1 inch = 30 ft.

CONSTRUCTION NOTES

1. CONSTRUCT "L" TYPE CURB & GUTTER PER C.C.A.U.S.D. No. 216
2. CONSTRUCT ONSITE "A" CURB PER DETAIL ON SHEET C6.00
3. CONSTRUCT FLUME PER DETAIL ON SHEET C6.00
4. INSTALL 4" CONCRETE SIDEWALK PER C.C.A.U.S.D. No. 234
5. INSTALL 2.5" AC PAVEMENT OVER 4" TYPE II AGG. BASE OVER 6" STRUCTURAL FILL (PARKING AREAS)
6. INSTALL 3" AC PAVEMENT OVER 9" TYPE II AGG. BASE OVER 6" STRUCTURAL FILL
7. CONSTRUCT CASE II SIDEWALK RAMP PER C.C.A.U.S.D. No. 235 & DETAIL ON SHEET C6.01
8. CONSTRUCT CASE I SIDEWALK RAMP PER C.C.A.U.S.D. No. 235
9. CONSTRUCT SIDEWALK RAMP 'A' PER DETAIL ON SHEET C6.00
10. INSTALL 3' CONCRETE VALLEY GUTTER PER DETAIL ON SHEET C6.00
11. CONSTRUCT COMMERCIAL/INDUSTRIAL DRIVEWAY PER C.C.A.U.S.D. No. 225 WITH GEOMETRIC PER C.C.A.U.S.D. No. 226.S2. CONSTRUCT 8' CONCRETE VALLEY GUTTER PER C.C.A.U.S.D. No. 228
12. TIP OUT "L" CURB PER DETAIL ON SHEET C6.00
13. CONSTRUCT TRASH ENCLOSURE PER ARCHITECTURAL PLANS
14. INSTALL 7" CONCRETE PAVING OVER 6" TYPE II OVER 6" STRUCT. FILL
15. CONSTRUCT SIDEWALK UNDERDRAIN PER C.C.A.U.S.D. No. 236
16. SAWCUT AND MATCH EXISTING AC
17. LANDSCAPED/HARDSCAPE AREA – SEE LANDSCAPE PLANS
18. INSTALL GATE PER ARCHITECTURAL PLANS
19. INSTALL PERIMETER FENCE PER ARCHITECTURAL PLANS
20. SEE PLUMBING PLANS FOR ROOF DRAINS
21. ADJUST EXISTING RIMS TO GRADE
22. INSTALL BOLLARDS PER ARCHITECTURAL PLANS
23. REMOVE EXISTING 2 LF 18" RCP SD & INSTALL 3 LF 18" RCP @ 30%
24. INSTALL CURB OPENING PER DETAIL ON SHEET C6.00
25. OUTLET PER DETAIL ON SHEET C6.00
26. INSTALL ZURN "Z886 6" PERMATRENCH" TRENCH DRAIN WITH "DOG" ADA RATED MEDIUM DUTY GRATE
27. MECHANICAL YARD – SEE ENLARGED GRADING PLAN ON SHEET C6.00
28. RELOCATED SATELLITE DISH
29. INSTALL CROSS BLOCK PER DETAIL ON SHEET C6.00
30. INSTALL SCREEN WALL PER ARCHITECTURAL PLANS
31. INSTALL 3'x 6' DROP INLET & H20 GRATE PER DETAIL ON SHEET C6.02
32. INSTALL MODIFIED 4" CONCRETE SIDEWALK PER CCAUSD #234 & DETAIL ON SHEET C6.01
33. PATIO – SEE ARCHITECTURAL PLANS
34. EX. 10' STORM DRAIN DROP INLET – PROTECT IN PLACE
35. EX. 3' STORM DRAIN DROP INLET – PROTECT IN PLACE
36. EX. 24' STORM DRAIN DROP INLET – PROTECT IN PLACE
37. INSTALL DRY WELL PER DETAIL ON SHEET C6.00
38. INSTALL TYPE 1 SIDEWALK PER N.D.O.T. STD. DWG. R 5.2
39. EXISTING COX PULL-BOX TO BE PROTECTED-IN-PLACE
40. EXISTING POWER POLE TO BE PROTECTED-IN-PLACE

LEGEND

- RIGHT-OF-WAY/PROPERTY LINE
- STREET CENTER LINE
- EXISTING BUILDING
- PROPOSED BUILDING
- EXISTING CURB & GUTTER
- PROPOSED CURB & GUTTER
- EXISTING EDGE OF A.C. PAVEMENT
- EXISTING CMU WALL
- 2631 — EXISTING 1' CONTOUR
- 2630 — EXISTING 5' CONTOUR
- A / C6.00 — SECTION / DETAIL SYMBOL
- HC ACCESS ROUTE
- GRADE BREAK — GRADE BREAK
- 4.60% — SLOPE & DIRECTION OF SLOPE
- 67.62 TC — PROPOSED ELEVATION
- (67.62) TC — EXISTING ELEVATION
- SAWCUT LINE

NOTE

ALL NEW STORM DRAIN DROP INLETS SHALL INCLUDE THE STORM WATER QUALITY MANAGEMENT STAMP AND SIGN DETAIL PER C.C.A.U.S.D. No. 421

DISCLAIMER NOTE

EXISTING UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDER- GROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION. ALL DISCREPANCIES MUST BE IMMEDIATELY REPORTED TO THE ENGINEER. CALL BEFORE YOU DIG: 1-800-227-2600.

FLOOD ZONE NOTE:

ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) COMMUNITY PANEL NUMBER 325278 C2135 F, CITY OF LAS VEGAS, CLARK COUNTY NEVADA, DATED NOVEMBER 16, 2011. THE SITE LIES WITHIN A FEMA DESIGNATED ZONE "X". A ZONE "X" IS DESCRIBED AS AN AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD.

QUANTITIES

	PUBLIC	PRIVATE
2" AC PAVING	– SY	2,108 SY
3" AC PAVING	125 SY	3,027 SY
4" SIDEWALK	– SF	17,720 SF
"L" CURB	– LF	3,085 LF
COMMERCIAL D/W	896 SF	896 SF
HANDICAP RAMPS	3 EA	6 EA
CONCRETE V.G.	– LF	351 LF

LEGAL DESCRIPTION

BEING BLOCK A AND BLOCK 14 OF THE VALLEY VALLEY VIEW ADDITION TO THE CITY OF LAS VEGAS AS SHOWN ON MAP THEREOF ON FILE IN BOOK 1, PAGE 50 OF PLATS IN THE OFFICE OF THE CLARK COUNTY RECORDER, NEVADA, ALL LYING IN SOUTHEAST QUARTER (SE 1/4) OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 29, TOWNSHIP 20 SOUTH, RANGE 61 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA

BASIS OF BEARINGS:

BEING THE CENTERLINE OF "D" STREET NORTH 01°56'58" WEST BETWEEN WASHINGTON AVENUE AND JEFFERSON AVENUE, AS SHOWN ON RECORD OF SURVEY ON FILE IN FILE 113 PAGE 50 AS RECORDED IN THE OFFICIAL RECORDS OF CLARK COUNTY, NEVADA ON DECEMBER 19, 2000.

BASIS OF ELEVATION:

CITY OF LAS VEGAS BENCHMARK "2LV01 27W6"

BEING A RIVET AND PLATE, IN TOP OF CURB @ NE CORNER OF WASHINGTON AND D STREET.

2008 ADJUSTMENT ELEVATION OF 2022.57 FEET.

GEOTECHNICAL:

GEOTECHNICAL EVALUATION PREPARED BY:
NINYO & MOORE
PROJECT NO. 303519001
DATED NOVEMBER 16, 2012

NOTE:

ALL HANDICAP ACCESS ROUTES ARE AT A MAXIMUM OF 5% DOWNSLOPE AND 2% CROSS SLOPE & 2% IN DIRECTION CHANGE.

EARTHWORK QUANTITIES

NOTE: THESE QUANTITIES ARE APPROXIMATE AND AREA RAW VOLUMES ONLY. OVER EXCAVATION, SUBSIDENCE, SHRINKAGE AND BULKING FACTORS, ARE NOT INCLUDED AS PART OF THESE EARTHWORK QUANTITIES.

CUT (NET)	3,690 CUBIC YARDS
FILL (NET)	43 CUBIC YARDS
NET	3,647 CUBIC YARDS (CUT)

ENGINEER'S CERTIFICATION

I, JOHN M. WALKER, HEREBY CERTIFY THAT THIS GRADING PLAN CONFORMS TO THE APPROVED DRAINAGE STUDY ON FILE WITH CITY OF LAS VEGAS. CLV # DS4592B

JOHN M. WALKER, P.E.
DATE

*COMPLETION OF SECTION II OF DRAINAGE COMPLIANCE REPORT REQUIRED.

AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.
Call before you Dig.
1-800-227-2600
UNDERGROUND SERVICE ALERT (USA)

Call before you Dig
Avoid cutting underground utility lines. It's costly.
Call 811
OR 1-800-227-2600
AND CLARK COUNTY TRAFFIC OPERATIONS 1-702-455-7544

AVOID HITTING UNDERGROUND TRAFFIC SIGNAL SYSTEMS AND STREET LIGHT SYSTEM CONDUITS. IT'S COSTLY. CALL BEFORE YOU DIG UNDERGROUND
Call before you UnderGround
1-702-455-7511
CLARK COUNTY TRAFFIC OPERATIONS
1-702-432-5300
LAS VEGAS AREA COMPUTERIZED TRAFFIC SYSTEM

WRIGHT engineers
1635 VILLAGE CENTER CIRCLE, SUITE 200
LAS VEGAS, NV. 89134
p 702.933.7000 f 702.933.7001
WRIGHTENGINEERS.COM
LAS VEGAS :: IRVINE :: PHOENIX :: SALT LAKE CITY

REVISION | REV | DATE | BY

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
400 E. STEWART AVENUE
LAS VEGAS, NV 89101
TEL (702) 229-6535 FAX: (702) 382-3232

CHECK NO. 1 DATE:
CHECK NO. 2 DATE:

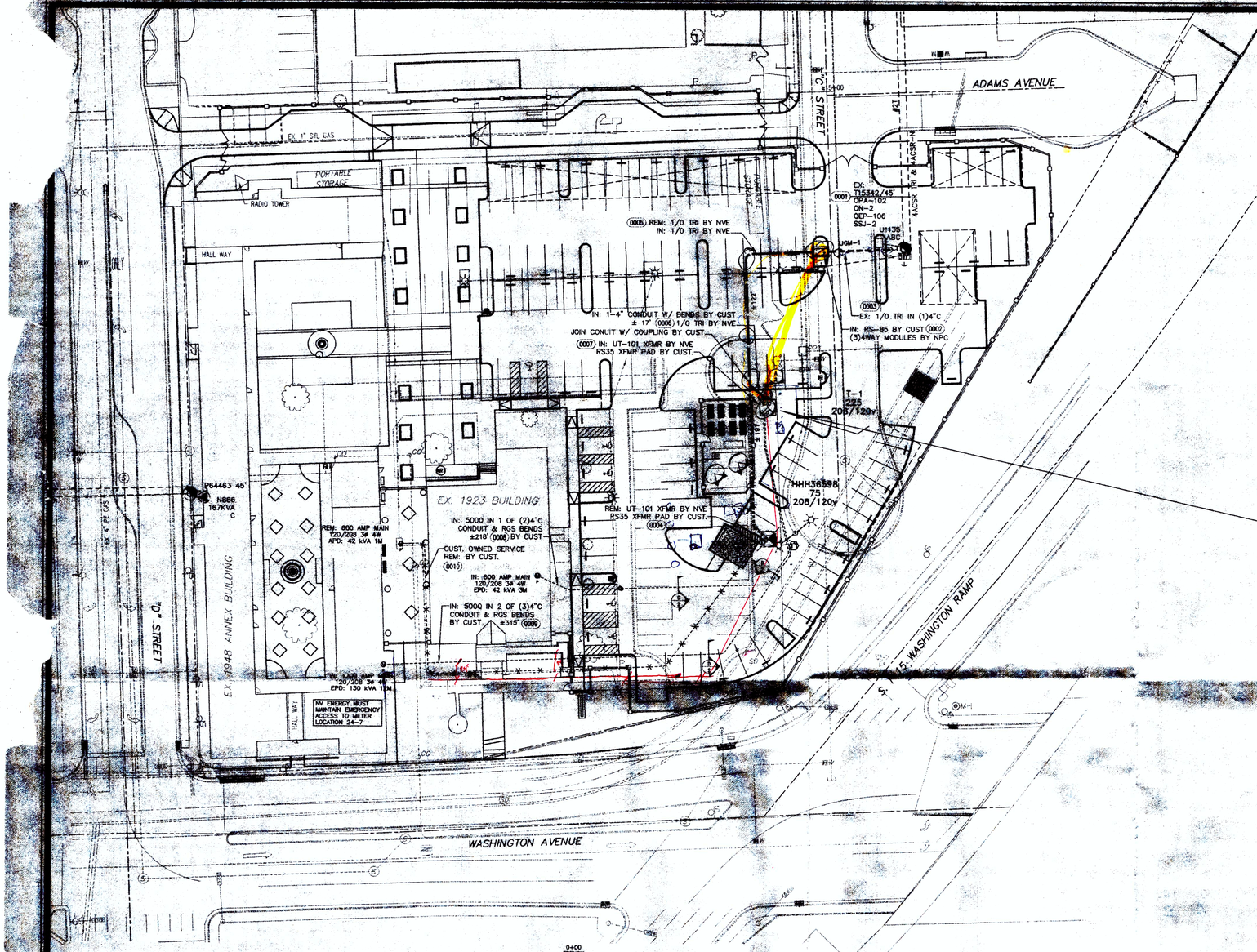
CITY OF LAS VEGAS
WESTSIDE SCHOOL HISTORIC REHABILITATION
GRADING PLAN

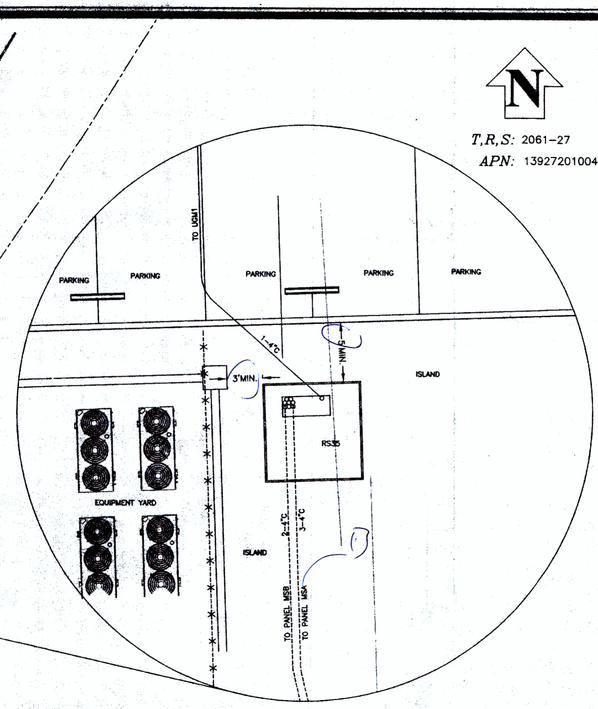
DATE: 10/20/14
DRAWN BY: CJL
PROJECT MGR: JMW
PROJECT NO: 112338
SCALE: 1"=30'

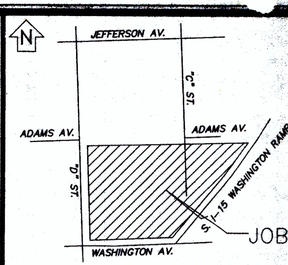
PROFESSIONAL ENGINEER - STATE OF NEVADA
JOHN M. WALKER
Exp. 06/30/16
CIVIL
No. 12779

SHEET
C5.00
6 OF 9 SHEETS
DRAWING NO.

Superceded







VICINITY MAP
(NOT TO SCALE)

EVERY EFFORT HAS BEEN MADE TO IDENTIFY ALL NVE FACILITIES. THE CUSTOMER SHALL CONFIRM THE EXISTENCE AND LOCATION OF THESE FACILITIES.

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.
CALL BEFORE YOU DIG OVERHEAD
CALL 1-702-402-2929

Call before you Dig
Avoid cutting underground utility lines. It's costly!
Call 811
OR
1-800-227-2600
AND
CLARK COUNTY TRAFFIC OPERATIONS
1-702-455-6000

REVISIONS

NO.	DESCRIPTION	DATE	C.A.

NON-STANDARD

TYPE OF EASEMENT:

- [ ] AERIAL
- [ ] STANDARD
- [ ] R/W-31
- [ ] UNDERGROUND
- [ ] AS BUILT UNDERGROUND
- [ ] R.O.E./R/W-S-COM
- [ ] 3rd PARTY
- [ ] UNDERGROUND BY EXHIBIT
- [ ] (N-DOT) PERMIT
- [ ] (BLM) PERMIT
- [ ] RAILROAD-UPRR-PERMIT
- [ ] SO. NEVADA WATER PERMIT
- [ ] NOT REQUIRED
- [ ] Misc. Info.

JPA NOTES:

EMBARQ CONTACT: N/A
PHONE NUMBER:
DATE OF CONTACT:
_____ TO SET NEW POLES
_____ TO STAKE NEW POLES
_____ TO PROVIDE _____ POLES
_____ FT. CLASS
_____ FT. CLASS
_____ FT. CLASS
_____ TO DIG POLE HOLES
_____ TO REMOVE EX. POLES
N/A
JPA#: N/A

EXHIBIT "A"

NVE INFORMATION:

COORDINATOR: JANE KING
PHONE: 402-6806
DESIGNER: JAKE DE GUZMAN D.F DF-JM
DCA:
INSPECTOR: 402-3008
STAND BY: 402-4117,402-4116,402-4118
DISTRICT: LAS VEGAS NORTH

CUSTOMER INFORMATION:

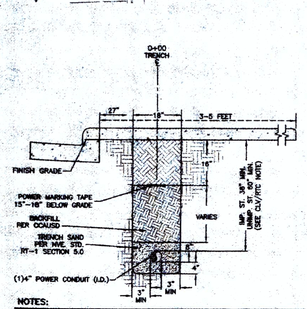
APPLICANT CITY OF LAS VEGAS
ENGINEER: PID-CARLOS BERGONIA 366-0634
CONTACT: CLV - SAM TOLMAN 229-2091
APPROVAL DATE: 09/08/2014

GOVERNMENT INFORMATION:

AGENCY: CITY OF LAS VEGAS
APPROVAL DATE: 09/08/2014

FOR EACH SERVICE POINT (POINT OF DELIVERY), ENERGY FOR EACH TENANT SPACE WILL BE MEASURED THROUGH ONE WATTHOUR METER. ENERGY FOR ALL NON-TENANT SPACE WILL BE MEASURED THROUGH ONE WATTHOUR METER. CONTACT NVE METER OPERATIONS FOR MULTIPLE RATE CLASS INSTALLATIONS.

For Installation of Transformer and Underground Conduits
SEE RFI #036-003



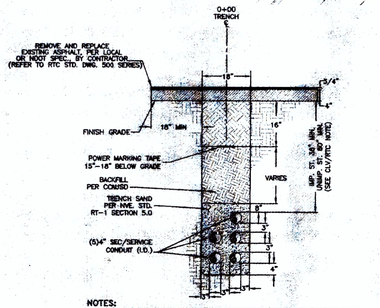
NOTES:

CLV REQUIREMENTS (APPLICABLE WITHIN CITY OF LAS VEGAS LIMITS ONLY):
IMPROVED AREA (IMP. ST.): (LOCATION OF TRENCH)
AREA WILL BE CONSIDERED IMPROVED IF IT MEETS ONE OR MORE OF THE FOLLOWING CRITERIA(S).
- EXISTING PERMANENT PAVEMENT WITH CURB & GUTTER AND/OR ADJACENT PERMANENT SIDEWALK.
- WITHIN AN IMPROVED TRAIL AREA.
- LIMITS OF CONSTRUCTION INSTALLED CONCURRENT WITH A PRIVATE OR PUBLIC PROJECT.

UNIMPROVED AREA (UNIMP. ST.): (LOCATION OF TRENCH)
ANY OTHER SCENARIO THAT FAILS TO MEET THE IMPROVED AREA CRITERIA(S) WILL BE CONSIDERED AN UNIMPROVED AREA.

NVE REQUIREMENTS:
FOR ALL OTHER JURISDICTIONS REFER TO NVE STANDARDS.
BACKFILL REQUIREMENTS NVE. STD. RT-1.
TRENCH DEPTH REQUIREMENTS NVE. STD. RT-5.

TRENCH DETAIL
1-4" CONDUITS
DETAIL "A"



NOTES:

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- WITHIN AN IMPROVED TRAIL AREA.
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UNIMPROVED AREA (UNIMP. ST.): (LOCATION OF TRENCH)
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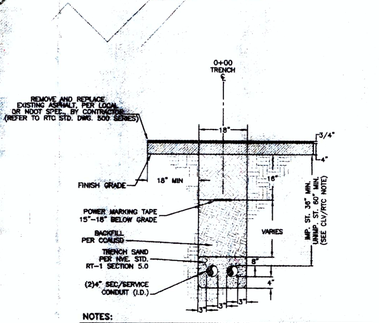
NVE REQUIREMENTS:
FOR ALL OTHER JURISDICTIONS REFER TO NVE STANDARDS.
BACKFILL REQUIREMENTS NVE. STD. RT-1.
TRENCH DEPTH REQUIREMENTS NVE. STD. RT-5.

TRENCH DETAIL
5-4" SEC/SERV CONDUITS
DETAIL "B"



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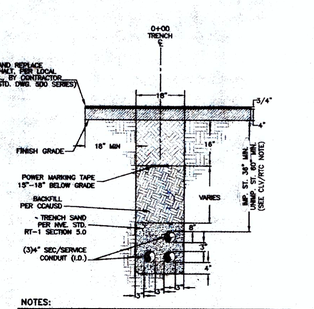
- LIMITS OF CONSTRUCTION INSTALLED CONCURRENT WITH A PRIVATE OR PUBLIC PROJECT.

UNIMPROVED AREA (UNIMP. ST.): (LOCATION OF TRENCH)
ANY OTHER SCENARIO THAT FAILS TO MEET THE IMPROVED AREA CRITERIA(S) WILL BE CONSIDERED AN UNIMPROVED AREA.

NVE REQUIREMENTS:
FOR ALL OTHER JURISDICTIONS REFER TO NVE STANDARDS.
BACKFILL REQUIREMENTS NVE. STD. RT-1.
TRENCH DEPTH REQUIREMENTS NVE. STD. RT-5.

TRENCH DETAIL
2-4" SEC/SERV CONDUITS
DETAIL "C"



NOTES:

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NVE REQUIREMENTS:
FOR ALL OTHER JURISDICTIONS REFER TO NVE STANDARDS.
BACKFILL REQUIREMENTS NVE. STD. RT-1.
TRENCH DEPTH REQUIREMENTS NVE. STD. RT-5.

TRENCH DETAIL
3-4" SEC/SERV CONDUITS
DETAIL "D"

CIVIL LINETYPE LEGEND

	PROPOSED	EXISTING
CENTERLINE		
PROPERTY LINE/ROW		
CURB		
EDGE OF PAVEMENT		
EDGE OF SIDEWALK		
SEWER LINE *	8"S	8"S
WATER LINE *	8"W	8"W
GAS LINE *	2"G	2"G
TELEPHONE LINE *	TEL	TEL
CABLE TV LINE *	CATV	CATV
STORM DRAIN LINE *	12"SD	12"SD
FIRE HYDRANT		
STREET LIGHT		
STREET LIGHT SERVICE		

* LINETYPES UTILIZED WHERE CONFLICT OCCURS WITH NVE FACILITIES.

NVEnergy.

WESTSIDE SCHOOL
HISTORICAL REHAB.
330 W. WASHINGTON AVE.

Superceded

PROJ. ID: 3000646439 SCALE: 1" = 30'
SHEET #: 2 OF 2 DATE: 07/15/2014

Sharing of this drawing and the information contained herein shall be only to individuals/parties who have entered into an agreement with Applicant for the completion of work associated with this specific project. Use for purposes other than this specific project requires the written consent of NV Energy.

LOCATE BACKFLOW ETC. IN PLANTER AREA. SCREEN WITH PLANT MATERIAL.

POINT OF CONNECTION – SEE CIVIL PLANS FOR SIZE AND LOCATION. FIELD VERIFY PRIOR TO CONSTRUCTION.

2-1/2" MAINLINE

1-1/4" MAINLINE

1" MAINLINE

1-1/2" MAINLINE

3/4" MAINLINE

A-1 L 1" 8.82

A-2 T 1" 2.67

A-3 S & POTS 1" 1.13

A-4 L 1" 14.66

A-5 S & POTS 1" 1.17

A-6 T 1" 3.20

A-7 ANNUALS 1" 0.52

A-8 FTN AUTOFILL

A-9 T 1" 4.27

A-10 S 1" 4.87

A-11 T 1" 2.14

A-12 S 1" 3.28

A-13 T 1" 2.14

A-14 S 1" 5.02

A-15 P 1" 2.10

A-16 T 1" 7.21

A-17 S 1" 2.73

CONNECT NEW STREET TREES TO EXISTING TREE IRRIGATION ALONG "D" STREET, TYPICAL. PROTECT EXISTING IRRIGATION IN PLACE.

CONNECT NEW STREET TREES TO EXISTING TREE IRRIGATION ALONG "D" STREET, TYPICAL

Future Planter SEE RFI #037-005

SEE RFI #037-006

NOTE:
ALL IRRIGATION LINES TO BE PLACED WITHIN PLANTER AREAS. DISTANCE FROM BUILDING TO BE BASED UPON SOILS REPORT.

NOTE:
ALL IRRIGATION EQUIPMENT AND PIPING TO BE LOCATED IN PLANTER AREAS WHENEVER FEASIBLE. ALL EQUIPMENT TO BE LOCATED WITHIN PROPERTY LIMITS. EQUIPMENT SHOWN IN HARDSCAPE FOR CLARITY ONLY.

USE LARGE RADIUS SWEEP ELL BELOW CONTROLLER VALVE WIRES. SUPPLY 110V, 15 AMP POWER SOURCE, HARD WIRE TO J-BOX OR PLUG INTO OUTLET. CONTRACTOR TO COORDINATE CONTROLLER LOCATION WITH ARCHITECT.

SEE L2.00 FOR IRRIGATION LEGEND AND NOTES

THE CONTRACTOR SHALL FURNISH AN IRRIGATION SYSTEM THAT PROVIDES COMPLETE COVERAGE TO ALL INTENDED AREAS. ADD ADDITIONAL EMITTERS AND/OR OTHER IRRIGATION COMPONENTS AND ADJUST SYSTEM FOR OPTIMUM COVERAGE.

NOTE: SEE IRRIGATION DETAILS FOR SLEEVING AND PIPE SIZING CHART

1" = 20'-0"

0' 20' 40' 60'

REVISIONS
1 NOT USED
2 NOT USED
3 COORDINATION 12-03-2014

ARCHITECT
kme ARCHITECTS
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6795 WEST RUSSELL ROAD, SUITE 200
LAS VEGAS, NEVADA 89118
P: 702-888-2088 / F: 702-888-2089
WEB: www.kmearchitects.com

CONSULTANT
LACE Design
6900 S. Eastern Ave. Suite 200
Las Vegas, NV 89119
Tel. 702-454-8088

WESTSIDE SCHOOL HISTORIC REHABILITATION

330 W. WASHINGTON AVE.
LAS VEGAS, NEVADA 89106

CLV PLANS LIBRARY NUMBER: 715-175-1

BID NUMBER: 12.43221-TF

IRRIGATION PLAN

STAMP

CONSTRUCTION DOCUMENTS

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6535
FAX: (702) 382-3232
TDD: (702) 386-9108

DRAWN	C Davies
FILE	2012-007
DATE	08-17-2014
SCALE	1" = 20'-0"
BID NO	12.43221-TF
CLV DWG NO	715-175-1
SHT NO	L2.01

DECOMPOSED GRANITE IN ALL NEW PLANTERS NORTH SIDE OF ADAMS AVENUE, TYP

4' PLANTER AREA, TYP

LIMIT OF WORK

1948 ANNEX

BIKE RACKS (4)

CONCRETE HEADER AT TURF, TYP.

BENCH WITH BACK, TYP (1) 1 OF 8 THIS PLAZA

DECOMPOSED GRANITE ONLY IN PLANTERS ADJACENT TO BUILDING ALONG "D" STREET, TYP

ROUND (8) PLANTER POT, 1 OF 4 THIS PLAZA

WASTE (10) RECEPTACLE

EXISTING FLAGPOLE TO REMAIN

CONCRETE HEADER AT TURF, TYP.

NEW TREES (3) AND SHRUBS ALONG 'D' STREET TO BE INSTALLED WITH THIS PROJECT (HISTORIC WESTSIDE SCHOOL)

EXISTING STREET TREES PER 'D' STREET ENHANCEMENTS BY CLV PUBLIC WORKS

Future Planter
SEE RFI #032-003

D STREET

LIMIT OF WORK

ROUND (8) PLANTER POT, TYP

BENCH (2) NO BACK (1 OF 2)

WASTE (10) RECEPTACLE

TABLE (3) AND CHAIRS 8 SETS THIS COURTYARD

SQUARE (9) PLANTER POTS

(5) WATER FEATURE

(10) (1)

(2) (1) BENCH NO BACK

(6) SCORED COLORED CONCRETE, TYP

ROUND (8) PLANTER POT, TYP

EXISTING FLAGPOLE TO REMAIN

1948 ANNEX

LIMIT OF WORK

WASHINGTON AVE.

SEE RFI #032-025

PARKING

(7) MAIN PEDESTRIAN SCORED COLORED CONCRETE, TYP

(7) ACCENT PEDESTRIAN SCORED COLORED CONCRETE, TYP

SIDEWALK UNDERDRAIN, TYP. SEE CIVIL PLANS

(4) BIKE RACKS

(7) MAIN PEDESTRIAN SCORED COLORED CONCRETE, TYP

(8) TYP

1923 BUILDING

NO PLANT ZONE 5' FROM ALL FOOTINGS UNLESS PROVIDING A LINED PLANTER – PER SOILS REPORT, TYP

BOULDERS, TYP

TREES TO BE PLANTED OUTSIDE OF EASEMENT, TYP

HATCH PATTERN REPRESENTS RESTRICTED PLANTING AREA. NO TREES TO BE PLANTED WITHIN.

HATCH PATTERN REPRESENTS 35' UTILITY EASEMENT TO INCLUDE WATER, SEWER, GAS, TELEPHONE AND POWER. NO TREES TO BE PLANTED WITHIN.

RESTRICTED PLANTING AREA. NO TREES.

MAINTENANCE ACCESS FOR 11'X6' RCB

TREES TO BE PLANTED OUTSIDE OF EASEMENT, TYP

PLANTER AREAS, TYP

LIMIT OF WORK

LIMIT OF WORK

MONUMENT SIGN. SEE ARCHITECTURAL PLANS.

SEE L1.00 FOR PLANT AND MATERIALS LEGEND CALLOUTS, AND NOTES

Reference
SEE RFI #032-004

1" = 20'-0"

0' 20' 40' 60'

REVISIONS
1 NOT USED
2 NOT USED
3 COORDINATION 12-03-2014

ARCHITECT
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6795 WEST RUSSELL ROAD, SUITE 200
LAS VEGAS, NEVADA 89118
P: 702-868-2088 I F: 702-868-2089
WEB: www.kmearchitects.com

CONSULTANT
LAGP Design
8965 S. Eastern Ave.
Suite 320
Las Vegas, NV 89123
Tel. 702-685-0565

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LAS VEGAS, NEVADA 89106

CLV PLANS LIBRARY NUMBER: 715-175-1

BID NUMBER: 12.43221-TF

LANDSCAPE PLAN

STAMP

CONSTRUCTION DOCUMENTS

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6535
FAX: (702) 382-3232
TDD: (702) 386-9108

DRAWN C Davies
FILE 2012-007
DATE 05-__-2014
SCALE 1" = 20'-0" (22x34)
BID NO 12.43221-TF
CLV DWG NO 715-175-1
SHT NO L1.01

REDUCED PRESSURE PRINCIPLE ASSEMBLY (1) 1" + (1) 2"

APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE U.D.A.C.S. PLATE No. 8. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACK FLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY LAS VEGAS VALLEY WATER DISTRICT.

ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY.

NOTE

OWNER RESPONSIBILITY TO PROVIDE SURVEY MONUMENTATION AS SHOWN AND TO REPLACE ALL SURVEY MONUMENTATION DAMAGED, DISTURBED, DESTROYED, OR OBSCURED DURING CONSTRUCTION.

EASEMENT WITH TREES, SHRUBS, DECORATIVE ROCKS, BLOCK WALL OR FENCE

TREES, SHRUBS OR DECORATIVE ROCKS, AND ANY BLOCK WALL OR OTHER FENCE MATERIAL, SHALL BE DESIGNED AND CONSTRUCTED AROUND THE EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS TO THE VAULT(S), BACKFLOW ASSEMBLIES, AND PIPING FROM THE ADJACENT RIGHT-OF-WAY.

REDUCED PRESSURE DETECTOR ASSEMBLY (RPDA) (2) 6"

THE REDUCED PRESSURE DETECTOR ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH THE UDACS PLATE NO. 56. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE ASSEMBLY HAS BEEN SUCCESFULLY TESTED BY LVVWD. ANY BLOCK WALL OR OTHER FENCE MATERISAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) SO AS TO ALLOW LVVWD DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF THE CONSTRUCTION.

DISCLAIMER NOTE

EXISTING UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDER– GROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION. ALL DISCREPANCIES MUST BE IMMEDIATELY REPORTED TO THE ENGINEER.
CALL BEFORE YOU DIG: 1–800–227–2600.

WATER QUANTITIES

ITEM	PUBLIC	PRIVATE
8" PVC WATER (FIRE)	69 LF	747 LF
6" PVC WATER (FIRE)	42 LF	219 LF
4" PVC WATER (FIRE)	–	45 LF
2" PVC WATER (DOM)	2" CU 15 LF	507 LF
2" PVC WATER (IRRIG)	1" CU 15 LF	19 LF
FIRE HYDRANT		2 EA

SEWER QUANTITIES

ITEM	PRIVATE
6" PVC SEWER	287 LF
6" PVC SEWER CLEANOUT	6 EA
4" PVC SEWER	463 LF
4" PVC SEWER CLEANOUT	3 EA

INSTALL BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKERS ADJACENT TO THE FIRE HYDRANT ON ALL APPROVED FIRE APPARATUS ACCESS ROADWAYS WITH HARD SURFACES, INCLUDING BOTH PUBLIC AND PRIVATE ROADS, STREETS, OR FIRE LANES.

? ON ROADWAYS WITH NO PARKING PERMITTED ON THE HYDRANT SIDE; EIGHT (8) FEET FROM THE FACE OF CURB ON THE HYDRANT SIDE

? ON ROADWAYS WITH PARKING PERMITTED ON THE HYDRANT SIDE; SIXTEEN (16) FEET FROM THE FACE OF CURB ON THE HYDRANT SIDE

FIRE HYDRANT RELOCATION AND LATERAL ABANDONMENT (EXISTING LATERAL TO BE ABANDONED)

WHERE SHOWN ON THE DRAWING, THE CONTRACTOR SHALL ABANDON THE EXISTING FIRE HYDRANT(S) BY REMOVING BOTH THE UPPER AND LOWER FIRE HYDRANT BARRELS SO THAT NO PORTION OF THE REMAINING FIRE HYDRANT ASSEMBLY IS CLOSER THAN TWO (2) FEET TO THE EXISTING GRADE. FIRE HYDRANTS SHALL BE TESTED PRIOR TO AND AFTER RELOCATION UNDER THE DIRECTION OF THE DISTRICT TO ENSURE QUALITY OF THE FIRE HYDRANT(S). THE EXISTING HYDRANT SHALL BE INSTALLED AT THE NEW LOCATION AS INDICATED ON THE DRAWING, IN ACCORDANCE WITH U.D.A.C.S. PLATE 40. THE EXISTING VALVE SHALL BE ABANDONED IN A CLOSED POSITION, UNLESS SHOWN OTHERWISE, BY REMOVING A MINIMUM OF EIGHT (8) INCHES OF SAND OR TYPE II AGGREGATE BASE. THE REMAINING PORTION OF THE VALVE BOX SHALL BE FILLED WITH CONCRETE HAVING A COMPRESSIVE STRENGTH OF AT LEAST TWO THOUSAND (2000) PSI. THE LATERAL SHALL BE CUT WITHIN ONE (1) FOOT OF THE ABANDONED VALVE, OR AS SHOWN ON THE PLANS, AND CAPPED. WHERE A JOINT OR COUPLING IN THE EXISTING PIPE IS UNCOVERED AT THE CUT AND CAP LOCATION, THE INSTALLATION OF A PLUG MAY BE PERMITTED, WITH DISTRICT APPROVAL. A CONCRETE THRUST BLOCK SHALL BE INSTALLED AT ALL CUT AND CAP LOCATIONS IN ACCORDANCE WITH THE PROVISIONS OF U.D.A.C.S. PLATE No. 31.

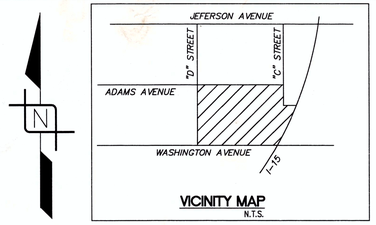
PROPOSED BLDG. FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS 1,625 GALLONS PER MINUTE
@ 20 PSI RESIDUAL PRESSURE
BASED ON:

	EX. 1948 ANNEX BUILDING		EX. 1923 BUILDING	
SQUARE FOOTAGE	1st FLOOR	13,946 SF	1st FLOOR	5,834 SF
	TOTAL AREA	TOTAL SF	TOTAL AREA	TOTAL SF
LARGEST AREA BETWEEN 4–HOUR AREA SEPERATION WALLS:		N/A		N/A
BUILDING HEIGHT:		28'		26'
NUMBER OF STORIES:		1		1
TYPE OF CONSTRUCTION:		VB		VB
OCCUPANCY:		A–2, B, M		A–3

FULL AUTOMATIC FIRE SPRINKLER SYSTEM: ☒YES ☐NO

REVIEWED BY: _____ DATE: _____
LAS VEGAS FIRE AND RESCUE



VICINITY MAP
N.T.S.

GRAPHIC SCALE

30 0 15 30 60 120

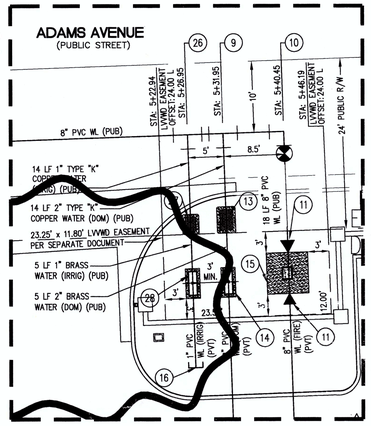
(IN FEET)
1 inch = 30 ft.

WARNING FIRE LINE (NON-POTABLE WATER) ALL EXISTING, RELOCATED OR PROPOSED DCDA/RPDA

"TO COMPLY WITH THE FEDERAL SAFE DRINKING WATER ACT, THE FIRE LINE, OR ANY OF ITS COMPONENTS, SHALL NOT BE USED FOR POTABLE DRINKING WATER AT ANY TIME."

LEGEND

- PROPOSED SEWER LINE
- PROPOSED WATER LINE
- PROPOSED SEWER CLEAN OUT
- PROPOSED SEWER MANHOLE
- EXISTING SEWER MANHOLE/CLEANOUT
- PROPOSED GATE VALVE
- EXISTING GATE VALVE
- EXISTING WATER LINE
- EXISTING SEWER LINE
- EXISTING GAS LINE
- EXISTING STREET LIGHT
- PROPOSED STREET LIGHT
- EXISTING WATER OR SEWER CAP
- PROPOSED WATER OR SEWER CAP
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- SAWCUT LINE



ENLARGED VIEW "A"
SCALE 1" = 10'

CONSTRUCTION NOTES SEWER

1. LATERAL CONNECTION PER D.C.S.W.C.S. STD. DWG. No. SD–22 & SD–25
2. INSTALL 6" CLEANOUT PER D.C.S.W.C.S. STD. DWG. No. SD–26
3. INSTALL SAMPLE BOX PER PLUMBING PLANS
4. INSTALL GREASE INTERCEPTOR PER PLUMBING PLANS
5. STUB & CAP – SEE PLUMBING PLANS FOR CONTINUATION
6. TRENCH SECTION PER D.C.S.W.C.S. STD. DWG. No. SD–17
7. STUB AND CAP FOR A/C CONDENSATE DRAINS

* ALL ONSITE SEWER TO BE PRIVATE

CONSTRUCTION NOTES WATER

1. INSTALL 8" x 6" MJ TAPPING SLEEVE W/ 6" TAPPING VALVE PER U.D.A.C.S. PLATE No. 34
2. INSTALL 6" GATE VALVE PER U.D.A.C.S. PLATES No. 30 & No. 39
3. INSTALL FIRE HYDRANT PER U.D.A.C.S. PLATE No. 40
4. INSTALL 8" – 45 DEGREE BEND PER U.D.A.C.S. PLATE No. 31
5. INSTALL 8" TAPPING SLEEVE W/8" TAPPING VALVE PER U.D.A.C.S. PLATE No. 34
6. INSTALL 2" – 45 DEGREE BEND
7. INSTALL 8" TEE PER U.D.A.C.S. PLATE No. 31
8. UTILITY TRENCH SECTION PER U.D.A.C.S. PLATE No. 17
9. INSTALL 2" SERVICE TAP PER U.D.A.C.S. PLATE No. 4
10. INSTALL 8" – 90° BEND PER U.D.A.C.S. PLATE No. 31
11. INSTALL 8" x 6" REDUCER PER U.D.A.C.S. PLATE No. 30
12. SEE PLUMBING PLANS FOR CONTINUATION
13. INSTALL 2" WATER METER PER U.D.A.C.S. PLATE No. 4
14. INSTALL 2" RPPA PER U.D.A.C.S. PLATE No. 8
15. INSTALL 6" RPDA PER U.D.A.C.S. PLATE No. 56 — SEE RFI #021-001
16. INSTALL 1" CAP FOR IRRIGATION CONNECTION
17. INSTALL 8" x 4" TEE
18. SEE FIRE PROTECTION PLANS FOR CONTINUATION
19. INSTALL 8" x 6" TEE PER U.D.A.C.S. PLATE No. 31
20. INSTALL 2" – 90 DEGREE BEND
21. INSTALL 2" TEE
22. INSTALL 6" – 90 DEGREE BEND PER U.D.A.C.S. PLATE No. 31
23. FIRE DEPARTMENT CONNECTION (FDC) PER FIRE PROTECTION PLANS
24. INSTALL 6" x 4" TEE PER U.D.A.C.S. PLATE No. 31
25. INSTALL 6" TAPPING SLEEVE W/6" TAPPING VALVE PER U.D.A.C.S. PLATE No. 34
26. INSTALL 1" SERVICE TAP PER U.D.A.C.S. PLATE No. 4
27. INSTALL 1" WATER METER PER U.D.A.C.S. PLATE No. 4
28. INSTALL 1" RPPA PER U.D.A.C.S. PLATE No. 8
29. CONTRACTOR TO REMOVE APPROXIMATELY 240.59 LF OF EXISTING 8" ACP WATER AND REPLACE WITH 8" PVC
30. INSTALL 8" GATE VALVE PER U.D.A.C.S. PLATE No. 30 AND 39
31. SEE SHEET C5.00 – GRADING PLAN – CONSTRUCTION NOTE NO. 23
32. INSTALL 8" – 11.25 DEGREE BEND PER U.D.A.C.S. PLATE No. 31
33. INSTALL 8" – 22.5 DEGREE BEND PER U.D.A.C.S. PLATE No. 31
34. EXISTING FIRE HYDRANT TO BE REMOVED AND RELOCATED PER NOTE THIS SHEET
35. REMOVE EXISTING METER AND RETURN TO LVVWD & ABANDON EXISTING LATERAL IN PLACE PER NOTE THIS SHEET.
36. INSTALL ENCASEMENT OF WATERLINE PER U.D.A.C.S. PLATE No. 23
37. INSTALL POST INDICATOR VALVE (PIV)

FIRE WATER AT DOMESTIC WATER CROSSINGS

ALL NON–POTABLE FIRE WATER LINES CROSSING POTABLE DOMESTIC WATER LINES ARE TO BE INSTALLED WITH "A VERTICAL SEPARATION OF NO LESS THAN SIX INCHES" AND IN ACCORDANCE WITH UDACS 2.23.01, 2.04.05, 2.22.02.B1, AND 2.22.02.B2.

WASTEWATER FLOW CALCULATIONS

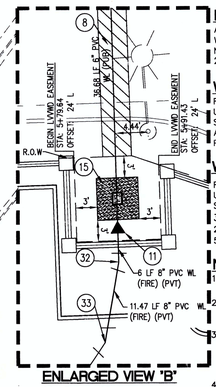
FACILITY TYPE: OFFICE
UNITS: 1 BUILDING
SF: 33,444
AVERAGE FLOW: 0.0009 MGD
PEAK FLOW:0.0039 MGD

WASTEWATER FLOW CALCULATIONS

FACILITY TYPE: PSYCHIATRIC HOSPITAL
UNITS: 1 BUILDING
SF: 67,500
332 FU X .65 = 215.8 ERU'S
215.8 X 250 GPD/1,000,000 = .05395 GPD AVERAGE FLOW
53,950 GPD X 3.45/1,000,000 = 0.1861 MGD PEAK FLOW

NOTES:

1. INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING, PER UDACS PLATE NO. 15.
2. ALL ABOVE GROUND UTILITY APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF TITLE 19.06 & 19.08.
3. ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER STORM MAIN CROSSINGS AND CLEARANCES
4. ANNULAR SPACE BETWEEN PIPE AND CASING SHALL BE FILLED WITH CLASS 1 CLSM. SEE U.D.A.C.S. PLATE No. 16, 17, 18, AND 19 FOR BEDDING AND BACKFILL REQUIREMENTS.



ENLARGED VIEW "B"
SCALE 1" = 10'

CITY OF LAS VEGAS FIRE DEPARTMENT APPROVAL

APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS. FIRE FLOW: 1,625 GPM AT 20 P.S.I. RESIDUAL.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
PROJECT # 122011 DATE:
(SHEETS C1.00, C1.01 C2.00 & C3.00) LVVWD APPROVED FIRE FLOW 1625 GPM AT 20 PSI RESIDENTIAL

FIRE DEPARTMENT APPROVAL
APPROVAL BY THE FIRE DEPARTMENT HAVING JURISTICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM THE LVVWD.

LEGAL DESCRIPTION

BEING BLOCK A AND BLOCK 14 OF THE VALLEY VALLEY VIEW ADDITION TO THE CITY OF LAS VEGAS AS SHOWN ON MAP THEREOF ON FILE IN BOOK 1, PAGE 50 OF PLATS IN THE OFFICE OF THE CLARK COUNTY RECORDER, NEVADA. ALL LYING IN SOUTHEAST QUARTER (SE 1/4) OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 29, TOWNSHIP 20 SOUTH, RANGE 61 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA

BASIS OF BEARINGS:

BEING THE CENTERLINE OF "D" STREET NORTH 01°56'58" WEST BETWEEN WASHINGTON AVENUE AND JEFFERSON AVENUE, AS SHOWN ON RECORD OF SURVEY ON FILE IN FILE 113 PAGE 50 AS RECORDED IN THE OFFICIAL RECORDS OF CLARK COUNTY, NEVADA ON DECEMBER 19, 2000.

BASIS OF ELEVATION:

CITY OF LAS VEGAS BENCHMARK "ZLVD1 27WS"

BEING A RIVET AND PLATE, IN TOP OF CURB @ NE CORNER OF WASHINGTON AND D STREET.
2008 ADJUSTMENT ELEVATION OF 2022.57 FEET.

AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.
Call before you Dig.
1–800–227–2600
UNDERGROUND SERVICE ALERT (USA)

Call before you Dig
Avoid cutting underground utility lines. It's costly.
Call 811
OR
1–800–227–2600
CLARK COUNTY TRAFFIC OPERATIONS
1–702–455–7544

AVOID HITTING UNDERGROUND TRAFFIC SIGNAL SYSTEMS AND STREET LIGHT SYSTEM CONDUITS IT'S COSTLY CALL BEFORE YOU DIG UNDERGROUND
Call before you UnderGround
1–702–455–7511
CLARK COUNTY TRAFFIC OPERATIONS
1–702–432–5300
LAS VEGAS AREA COMPUTERIZED TRAFFIC SYSTEM

WRIGHT engineers
1635 VILLAGE CENTER CIRCLE, SUITE 200
LAS VEGAS, NV. 89134
p. 702.933.7000 f 702.933.7001
WRIGHTENGINEERS.COM
LAS VEGAS :: IRVINE :: PHOENIX :: SALT LAKE CITY

REV	DATE	BY	REVISION

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
400 E. STEWART AVENUE
LAS VEGAS, NV 89101
TEL (702) 229-6535 FAX: (702) 382-3232

CHECK NO. 1 DATE:
CHECK NO. 2 DATE:

CITY OF LAS VEGAS
WESTSIDE SCHOOL HISTORIC REHABILITATION

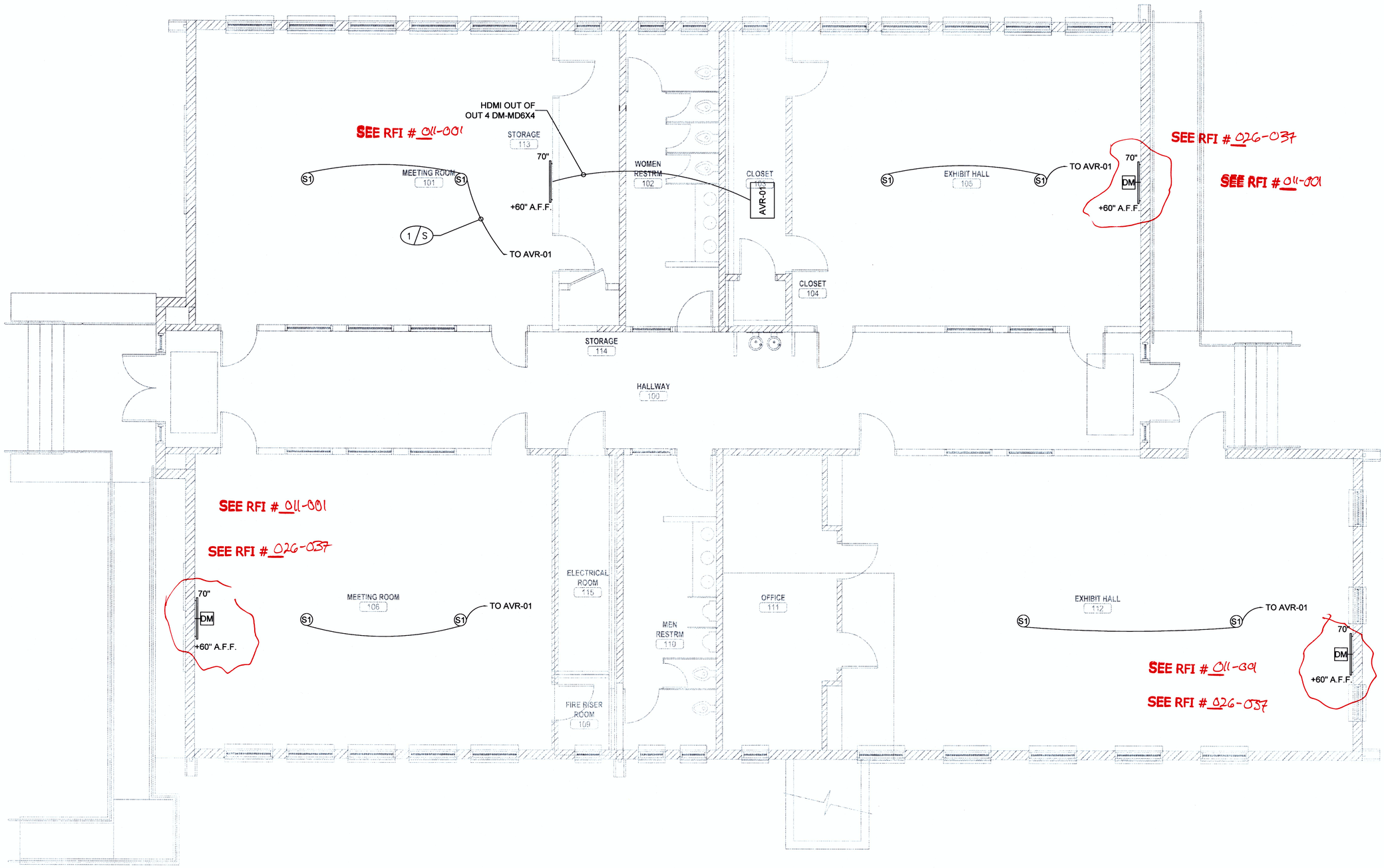
UTILITY PLAN

DATE: 01/07/15
DRAWN BY: CJL
PROJECT MGR: JMW
PROJECT NO: 112338
SCALE: 1" = 30'

PROFESSIONAL ENGINEER-STATE OF NEVADA
JOHN M. WALKER
No. 12779
Exp. 06/30/16
CIVIL

SHEET
C3.00
4 OF 9 SHEETS
DRAWING NO.

Superseded



1 AV FLOOR PLAN BLDG 1923

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

REVISIONS

ARCHITECT

kme ARCHITECTS

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6765 WEST RUSSELL ROAD, SUITE 200
LAS VEGAS, NEVADA 89118
P: 702-888-2089 / F: 702-888-2089
WEB: www.kmearchitects.com

CONSULTANT

tel★star technologies

TEL-STAR
TECHNOLOGIES
1-800-488-1811

WESTSIDE SCHOOL HISTORIC REHABILITATION

330 W. WASHINGTON AVE.
LAS VEGAS, NEVADA 89106

BID NUMBER: 12.43221-TF

CLV PLANS LIBRARY NUMBER: 715-175-1

STAMP

Tel-Star Technologies

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DEPARTMENT OF PUBLIC WORKS

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PHONE: (702) 229-6535
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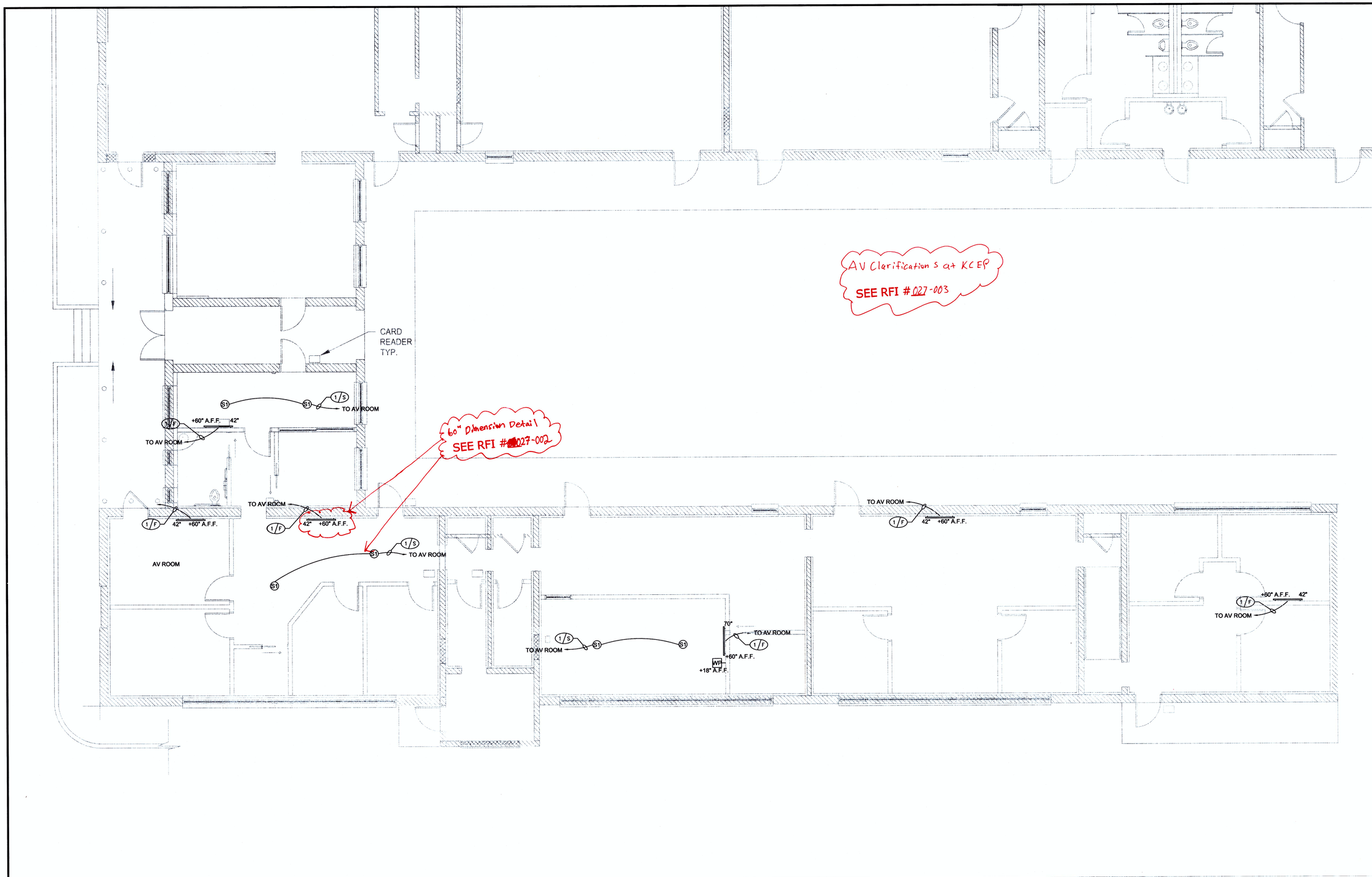
DRAWN	L.R.
FILE	2012-007
DATE	2014-08-11
SCALE	1/4" = 1'
BID NO	12.43221-TF
CLV DWG NO	715-175-1
SHT NO	AV 1.1



1 AV FLOOR PLAN BLDG 1948
SCALE : 3/16" = 1'-0"

REVISIONS

ARCHITECT
kme ARCHITECTS
KME Architects LLC. 2010
6765 WEST RUSSELL ROAD, SUITE 200
LAS VEGAS, NEVADA 89118
P: 702-888-2088 / F: 702-888-2089
WEB: www.kmearchitects.com

CONSULTANT
tel★star technologies
TEL-STAR TECHNOLOGIES
1-800-488-1811

WESTSIDE SCHOOL HISTORIC REHABILITATION
330 W. WASHINGTON AVE.
LAS VEGAS, NEVADA 89106

CLV PLANS LIBRARY NUMBER: 715-175-1

BID NUMBER: 12.43221-TF

STAMP
Tel-Star Technologies

CONSTRUCTION DOCUMENTS

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6535
FAX: (702) 382-3232
TDD: (702) 386-9108

DRAWN	L.R.
FILE	2012-007
DATE	2014-08-11
SCALE	3/16" = 1'
BID NO	12.43221-TF
CLV DWG NO	715-175-1
SHT NO	AV 1.2

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1- LP, MP, A
2- B, C, HSE, Cox, Fire Riser
3 - D, E, F, G
4 - F, G
5 - Antenna, Cox

DETECTOR LOOP 3
GATE OPERATOR 8:31
GATE OPERATOR 8:29
TO FIT. CHARGE COLLECTOR (1)2"C, (1)3/4"C 6
CAR CHARGING STATION 5 P:17.19
CAR CHARGING STATION 5 P:14.16
CAR CHARGING STATION 5 P:18.20
NV ENERGY INTERCEPT BOX
EXISTING COX PULLBOX
EXIST. PRIMARY CONDUIT
EXIST. POWER POLE TO REMAIN (BY NV ENERGY)
COMB. INSP. 76 CLV
80'
45'
75' COMB. INSP. 46 CLV
COMB. INSP. 46 CLV
COMB. INSP. 76 CLV
COMB. INSP. 77 CLV
24" Deep
(2)2"C, (1)1"C, (1)3/4"C FOR ANTENNA REQUIREMENT
4 TYPICAL FOR ALL SPEAKERS
GHP 1,5,4,7
17'6"
16'
15'
FOR CONDUIT REQUIREMENTS SEE PHOTOVOLTAIC SYSTEM PLAN
TO FUTURE PV SYSTEM ON COVERED PARKING
114'
PROPOSED XFORMER PAD
GHP 2,3,6,8
2 GENSET
83' Deep
M8B
M8A
PANEL 8
2"C FOR COX
GOING TO COMB. INSP. 76 CLV
76'
32'
24'
60' Deep
50' Deep
49'
25'
15'-6"
18" Deep
Existing sewer to be demoed
Existing NVE to be demoed
Existing Sewer to be demoed
Existing Water To be demoed
Existing Water to be demoed
(2)2"C (FOR SATELLITE DISH)
(4)4"C
Core Drill through Existing stem wall
SEE RFI #026-001
Monument Sign
SEE RFI #026-009

CALCULATION FOR THE AMPACITY LIMIT FOR THE 14 CURRENT CARRYING CONDUCTORS INSIDE A 2" CONDUIT FOR THE 7 UNITS OF GAS HEAT PUMP

$$A_2 = \sqrt{\frac{\varnothing 5 \times N}{E}} \times A_1$$

WHERE:
- N = TOTAL NUMBER OF CONDUCTORS USED TO SELECT ADJUSTMENT FACTOR FROM TABLE B310.15(B)(2)(11)
- E = NUMBER OF CONDUCTORS CARRYING CURRENT SIMULTANEOUSLY IN THE RACEWAY OR CABLE
- A_1' = AMPACITY FROM TABLE 8 310
- A = AMPACITY LIMIT FOR THE CURRENT CARRYING CONDUCTORS IN RACEWAY OR CABLE

THEREFORE:

$$A_2 = \sqrt{\frac{\varnothing 5 \times 14}{14}} \times (35A \times 10\%)$$

$A_2 = 17.32A$

SHEET KEYNOTES

1. GAS HEAT PUMPS, FACTORY INSTALLED DISCONNECT SWITCH. SEE PANEL SCHEDULE FOR CIRCUIT ASSIGNMENTS. GHP-4 TO BE CONNECTED TO PANEL 'EP' FOR KCEP STATION
2. GENERATOR TO BE SUPPLIED BY OWNER, INSTALLED BY ELECTRICAL CONTRACTOR
3. GATE OPERATOR: ELITE CSW2000LB, IHP. PROVIDE DETECTOR LOOP AND OTHER REQUIRED DEVICES. CONTACT MANUFACTURER/SUPPLIER FOR EXACT REQUIREMENT PRIOR TO INSTALLATION
4. PROVIDE IN-GROUND SPEAKERS: OG3 OUTDOOR SPEAKER BY SPEAKER CRAFT OF APPROVED EQUAL WITH SUB 8 ROX BASS AMPLIFIER. EMBED IN 12"Ø x 16" DEEP CONCRETE. PROVIDE MASTIC COATING AROUND SUPPORT OR FELT MEMBRANE TO PREVENT METAL FROM TOUCHING CONCRETE. RUN 1/2" CONDUIT WITH SPEAKER WIRES TO KCEP DATA ROOM. SEE ARCHITECTURAL DRAWINGS FOR DETAILS
5. ELECTRIC CAR CHARGING STATION: PEP STATIONS PS20000 OR EQUAL
6. CONDUIT TO STUB-UP AT ELECTRICAL ROOM OF 1923 BUILDING

ELECTRICAL SITE PLAN 1
SCALE: 1/16" = 1'-0"

REVISIONS
1 --
2 --
3 OWNER'S REVISION

ARCHITECT
kme ARCHITECTS
©KME Architects LLC. 2014
6795 WEST RUSSELL ROAD, SUITE 200
LAS VEGAS, NEVADA 89118
P: 702-896-2096 / F: 702-896-2069
WEB: www.kmearchitects.com

CONSULTANT
pid consulting engineers/designers
pidconsultinglimited.com
Arizona
California
Idaho
Montana
Nevada
Utah
Wyoming
15611 W Gross Avenue
Goodyear, AZ 85338
P: (702)366-0634
pidconsultinglic@gmail.com

WESTSIDE SCHOOL HISTORIC REHABILITATION
330 W. WASHINGTON AVE.
LAS VEGAS, NEVADA 89106

BID NUMBER: 12.43221-TF
CLV PLANS LIBRARY NUMBER: 715-175-1

STAMP
PROFESSIONAL ENGINEER STATE OF NEVADA
JERRY A. CRIBBS
Exp. 12-31-16
ELECTRICAL
No. 15218
11-03-2014

CONSTRUCTION DOCUMENTS

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6535
FAX: (702) 382-3232
TDD: (702) 386-9108

DRAWN	CVB
FILE	2012-007
DATE	08-11-2014
SCALE	NTS
BID NO	12.43221-TF
CLV DWG NO	715-175-1
SHT NO	E5.10

REVISED 8/14/13

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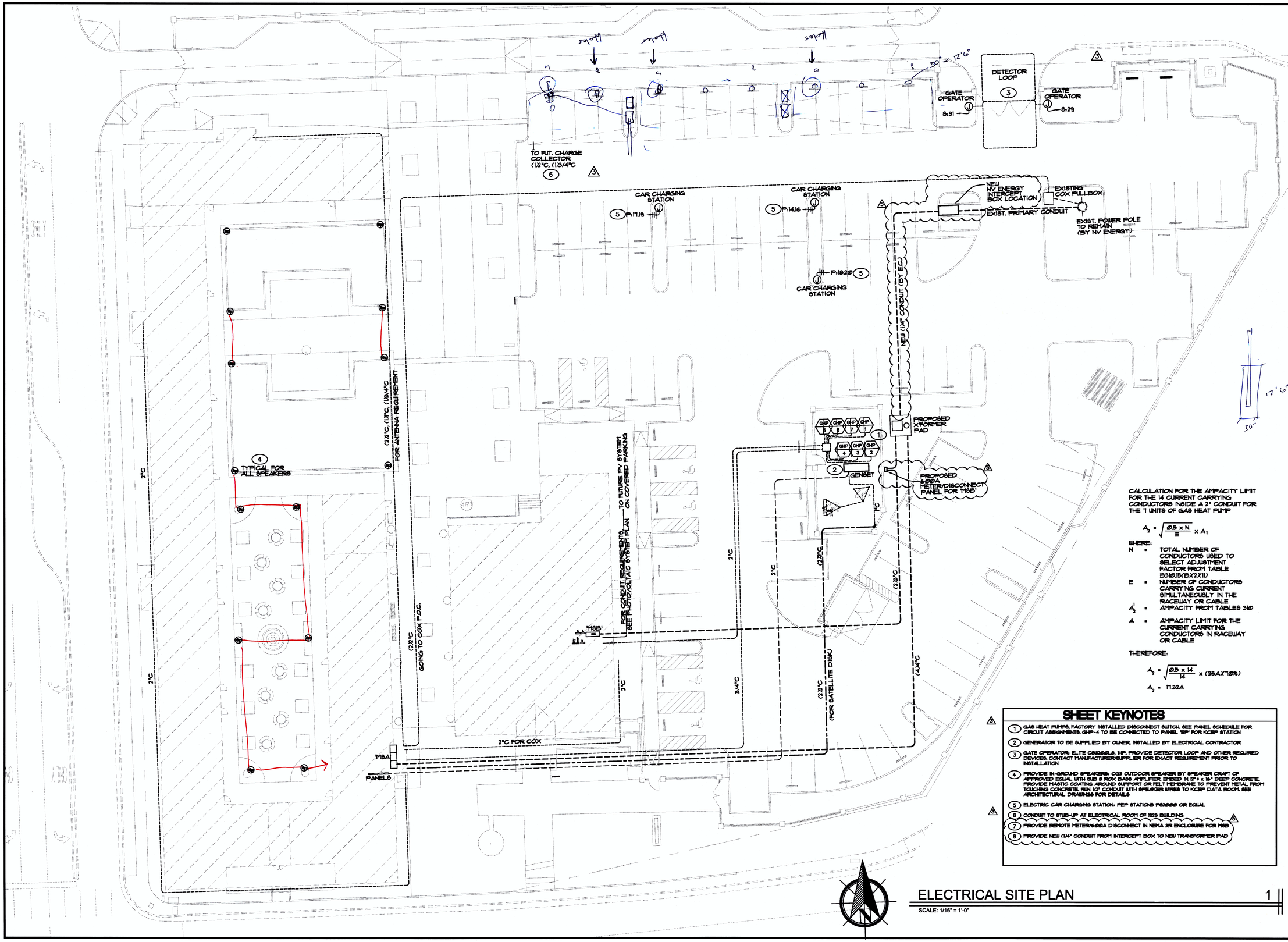

CALCULATION FOR THE AMPACITY LIMIT FOR THE 14 CURRENT CARRYING CONDUCTORS INSIDE A 2" CONDUIT FOR THE 7 UNITS OF GAS HEAT PUMP

$$A_2 = \sqrt{\frac{\varnothing 5 \times N}{E}} \times A_1$$

WHERE:

- N = TOTAL NUMBER OF CONDUCTORS USED TO SELECT ADJUSTMENT FACTOR FROM TABLE B310.15(B)(2)(11)
- E = NUMBER OF CONDUCTORS CARRYING CURRENT SIMULTANEOUSLY IN THE RACEWAY OR CABLE
- A_1 = AMPACITY FROM TABLES 310
- A = AMPACITY LIMIT FOR THE CURRENT CARRYING CONDUCTORS IN RACEWAY OR CABLE

THEREFORE:

$$A_2 = \sqrt{\frac{\varnothing 5 \times 14}{14}} \times (35A \times 70\%)$$

$$A_2 = 17.32A$$

SHEET KEYNOTES

5

1. GAS HEAT PUMPS, FACTORY INSTALLED DISCONNECT SWITCH. SEE PANEL SCHEDULE FOR CIRCUIT ASSIGNMENTS. GHP-1 TO BE CONNECTED TO PANEL 'EP' FOR KCEP STATION
2. GENERATOR TO BE SUPPLIED BY OWNER, INSTALLED BY ELECTRICAL CONTRACTOR
3. GATE OPERATORS: ELITE CSW/300LS, MP. PROVIDE DETECTOR LOOP AND OTHER REQUIRED DEVICES. CONTACT MANUFACTURER/SUPPLIER FOR EXACT REQUIREMENT PRIOR TO INSTALLATION
4. PROVIDE IN-GROUND SPEAKERS: C63 OUTDOOR SPEAKER BY SPEAKER CRAFT OF APPROVED EQUAL WITH SUB 8 ROX BA66 AMPLIFIER. EMBED IN 12" x 16" DEEP CONCRETE. PROVIDE MASTIC COATING AROUND SUPPORT OR FELT MEMBRANE TO PREVENT METAL FROM TOUCHING CONCRETE. RUN 1/2" CONDUIT WITH SPEAKER WIRES TO KCEP DATA ROOM. SEE ARCHITECTURAL DRAWINGS FOR DETAILS
5. ELECTRIC CAR CHARGING STATION: PEP STATIONS PS2000 OR EQUAL
6. CONDUIT TO STUB-UP AT ELECTRICAL ROOM OF 1923 BUILDING
7. PROVIDE REMOTE METER/600A DISCONNECT IN NEMA 3R ENCLOSURE FOR MSB
8. PROVIDE NEW (1)4" CONDUIT FROM INTERCEPT BOX TO NEW TRANSFORMER PAD

5

ELECTRICAL SITE PLAN 1

SCALE: 1/16" = 1'-0"

REVISIONS
- 1 -
- 2 - OWNER'S REVISION - 12/03/14
- 3 - OWNER'S REVISION - 04/22/15
- 4 - REVISION DUE TO NVE REQ'T. - 07/13/15

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KME ARCHITECTS
©KME Architects LLC. 2014
8795 WEST RUSSELL ROAD, SUITE 200
LAS VEGAS, NEVADA 89148
P: 702-498-2080 / F: 702-568-2080
WEB: www.kmearchitects.com

CONSULTANT
pid consulting
engineers/designers
pidconsultingllc@gmail.com
Arizona
California
Idaho
Montana
Nevada
Utah
Wyoming
15611 W Gross Avenue
Goodyear, AZ 85338
P: (702)368-0634
pidconsultingllc@gmail.com

WESTSIDE SCHOOL HISTORIC REHABILITATION

330 W. WASHINGTON AVE.
LAS VEGAS, NEVADA 89106

BID NUMBER: 12.43221-TF

CLV PLANS LIBRARY NUMBER: 715-175-1

ELECTRICAL SITE PLAN

STAMP
PROFESSIONAL ENGINEER STATE OF NEVADA
JERRY A CRIBBS
Exp. 12-31-16
ELECTRICAL
No. 15118
06-23-2015

CONSTRUCTION DOCUMENTS

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DEPARTMENT OF PUBLIC WORKS

400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6535
FAX: (702) 382-3232
TDD: (702) 386-9108

DRAWN	CVB
FILE	2012-007
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SCALE	NTS
BID NO	12.43221-TF
CLV DWG NO	715-175-1
SHT NO	E5.10

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REVISED 8/14/13

SUPPLY DIFFUSER/ REGISTER SCHEDULE

SYMBOL	NECK SIZE		PANEL SIZE		SUPPLY CFM (RANGE)	CEILING OPENING	NC MAX.
	SQUARE (ROUND)	RUNOUT	LAY-IN	SURFACE MOUNT			
S1	6"X6" (6"ø)	6"ø	12"X24" 24"X24"	8"x8"	UP TO 100	"A"+3½"	30
	8"X8" (8"ø)	8"ø	12"X24" 24"X24"	10"x10"	101-220	"A"+3½"	30
	10"X10" (10"ø)	10"ø	12"X24" 24"X24"	12"x12"	221-350	"A"+3½"	30
	12"X12" (12"ø)	12"ø	24"X24"	–	351-500	"A"+3½"	30
	14"X14" (14"ø)	14"ø	24"X24"	–	501-600	"A"+3½"	30
	15"X15" (15"ø)	15"ø	24"X24"	–	601-700	"A"+3½"	30
	16"X16" (16"ø)	16"ø	24"X24"	–	701-900	"A"+3½"	30
	18"X18" (18"ø)	16"ø	24"X24"	–	901-1100	"A"+3½"	30
	20"X20" (20"ø)	18"ø	24"X24"	–	1101-1500	"A"+3½"	30
S2	12"x6"	8"ø	–	–	0-250	–	20
	24"x12	10"ø	–	–	251-900	–	20
	30"x12"	12"ø	–	–	901-950	–	20
	36"x12"	16"ø	–	–	951-1200	–	20
S3	12"ø	12"ø	–	–	N/A	–	30
	14"ø	14"ø	–	–	700	–	30
	16"ø	14"ø	–	–	N/A	–	30
S4	12"x12"	14"ø	–	–	0-599	–	20
	15"x15"	14"ø	–	–	600-899	–	20
	18"x18"	16"ø	–	–	900-1224	–	20
	21"x21"	18"ø	–	–	1225-1599	–	20
	24"x24"	20"ø	–	–	1600-2000	–	20

MANUFACTURER

S1

"TITUS" MODEL TDC OR EQUAL, ADJUSTABLE DISCHARGE, SQUARE, LOUVERED, STEEL, (WITH OPPOSED BLADE DAMPER), WITH DUCT TRANSITION

☒ LAY-IN (SEE FLOOR PLAN)

☒ BLOW PATTERN
4-WAY, SEE FLOOR PLAN

NOTE: COLOR FINISH PER ARCHITECT

SEE RFI # 023-010

REGISTER: (FOR STAGE ONLY-OPTION) S2
"TITUS" MODEL 300RS, DOUBLE DEFLECTION, WALL/CEILING REGISTER, STEEL, (WITH OPPOSED BLADE DAMPER), WITH DUCT TRANSITION

DIFFUSER: (FOR MAIN ENTRY LOBBY-OPTION) S3
"SEIHO" MODEL NX, REVERSIBLE TURBONOZZLE CONE DESIGN DISCHARGE, ROUND WALL/CEILING REGISTER, ALUMINUM, (NO OPPOSED BLADE DAMPER)

REGISTER: (FOR THEATER ONLY-OPTION) S4
"TITUS" MODEL TDCA OR EQUAL, HORIZONTAL PATTERN DISCHARGE, SQUARE CEILING DIFFUSER, STEEL, (NO OPPOSED BLADE DAMPER), WITH DUCT TRANSITION

RETURN REGISTER/EXHAUST/FILTER GRILLES SCHEDULE

SYMBOL	NECK SIZE		PANEL SIZE		RETURN CFM (RANGE)	CEILING OPENING	NC MAX.
	SQUARE (ROUND)	ROUNOUT	LAY-IN	SURFACE MOUNT			
R1 E1 E2	6"X6" (6"ø)	6"ø	12"x12" 24"X24"	8"x8"	UP TO 100	PER MFR	30
	8"X8" (8"ø)	8"ø	12"x12" 24"X24"	10"x10"	101-200	PER MFR	30
	10"X10" (10"ø)	10"ø	24"x12" 24"X24"	12"x12"	201-300	PER MFR	30
	12"X12" (12"ø)	12"ø	24"X24"	–	301-400	PER MFR	30
	14"X14" (12"ø)	14"ø	24"X24"	–	401-600	PER MFR	30
	15"X15" (14"ø)	14"ø	24"X24"	–	601-700	PER MFR	30
	16"X16" (16"ø)	16"ø	24"X24"	–	701-800	PER MFR	30
	18"X18" (16"ø)	16"ø	24"X24"	–	801-1000	PER MFR	30
	20"X20" (18"ø)	18"ø	24"X24"	–	1001-1200	PER MFR	30
	22"X22" (20"ø)	20"ø	24"X24"	–	1201-1500	PER MFR	30
	46"X22" (22"ø)	22"ø	24"X48"	–	1501-3000	PER MFR	30
	18"X6"	10"ø	–	–	0-300	PER MFR	30
	24"X12"	16"ø	–	–	301-900	PER MFR	30
	24"x18" 30"X18"	18"ø	–	–	901-1700	PER MFR	30
	42"X24"	–	–	–	1701-3300	PER MFR	30
	48"X36" 48"X30"	–	–	–	3301-5000	PER MFR	30
RF	10"X10" (10"ø)	10"ø	12"X24"	12"X24"	UP TO 250	PER MFR	30
	22"X22" (18ø)	20"ø	24"X24"	24"X24"	251-1200	PER MFR	30
	46"X22" (22"ø)	22"ø	24"X48"	24"X48"	1201-3000	PER MFR	30

MANUFACTURER

"TITUS" MODEL 50F OR EQUAL, EGGCRATE RETURN, STEEL, (NO OPPOSED BLADE DAMPER), WITH DUCTWORK ADAPTER (TRANSITION)

"TITUS" MODEL 25RS (NO OPPOSED BLADE DAMPER)

☒ LAY-IN (SEE FLOOR PLAN)

☒ SURFACE MOUNT (SEE FLOOR PLAN)

SEE RFI # 023-010

NOTE: COLOR FINISH PER ARCHITECT

FOR RETURN FILTER GRILLE/REGISTER:
"TITUS" MODEL 50FF OR EQUAL, EGGCRATE FILTER RETURN, STEEL WITH DUCTWORK ADAPTER (TRANSITION)

NOTE: COLOR FINISH PER ARCHITECT

DUCTWORK SCHEDULE

SYSTEM/LOCATION	PRESSURE CLASS	SEAL CLASS	DUCT MATERIAL	INSULATION TYPE	THICKNESS (IN)	JACKET/ FACING	COVER	NOTES
CONSTANT VOLUME AIR HANDLER – SUPPLY, RETURN, OUTSIDE AIR; CONCEALED	1 INWG	C	GS	MFW	1	FSK	–	
CONSTANT VOLUME AIR HANDLER – SUPPLY, RETURN, OUTSIDE AIR; EXPOSED, UNFINISHED AREAS	1 INWG	C	GS	MFB	1	FSK	–	
CONSTANT VOLUME AIR HANDLER – SUPPLY & RETURN; EXPOSED TO VIEW IN FINISHED AREAS	1 INWG	A	GS	ADL	1	ACRYLIC	–	1
TOILET/GENERAL EXHAUST WITHIN 10' OF FAN	1 INWG	C	GS	ADL	1	ACRYLIC	–	
TOILET/GENERAL EXHAUST BEYOND 10' OF FAN	1 INWG	C	GS	–	–	–	–	
DISHWASHER EXHAUST; CONCEALED	1 INWG	A	AL	–	–	–	–	2
DISHWASHER EXHAUST; EXPOSED TO VIEW	1 INWG	A	SS	–	–	–	–	
KITCHEN HOOD EXHAUST; CONCEALED	2 INWG	A	GS	FRW	3	FSK	–	3
KITCHEN HOOD EXHAUST; EXPOSED TO VIEW IN KITCHEN	2 INWG	A	SS	–	–	–	–	
SMOKE EXHAUST; CONCEALED AND EXPOSED	1 INWG	A	GS	–	–	–	–	4

NOTES:
1. FABRICATE DUCT WITH MANUFACTURED DUCT JOINING SYSTEM (SPIRAMIR, DUCTMATE, TDF OR EQUAL), CLEAN AND PREPARE FOR PAINTING.
2. PITCH DUCT TO DRAIN BACK TO DISHWASHER.
3. PITCH DUCT TO DRAIN TO GREASE COLLECTION POINTS.
4. LEAK TEST TO 1.5 TIMES DESIGN PRESSURE.
5. SEAL ALL EXPOSED DUCT WEATHER-TIGHT.
6. MINIMUM 20 GAUGE SHEETMETAL.

ADL: ACOUSTICAL DUCT LINER
AL: ALUMINUM
CS: CARBON STEEL
FE: FLEXIBLE ELASTOMERIC
FRW: FIRE RATED DUCT WRAP
GS: GALVANIZED STEEL
MFB: MINERAL FIBER BOARD
MFW: MINERAL FIBER WRAP
SS: STAINLESS STEEL
ASJ: ALL SERVICE JACKET
CA: CORRUGATED ALUMINUM
CSS: CORRUGATED STAINLESS STEEL
EA: EMBOSSED ALUMINUM
FSK: FOIL SCRIM KRAFT
PVC: POLYVINYL CHLORIDE
VF: VINYL FACED

ELECTRIC UNIT HEATER SCHEDULE

SYMBOL	LOCATION	SERVICE	MANUFACTURER & MODEL NO.	WATTS	ELECTRICAL DATA					OPER. WEIGHT (LBS)	REMARKS
					VOLT	ø	FLA	WIRE	MOCP		
EH 1 (QTY OF 2)	RECESSED IN WALL	FIRE RISER RM Bldg 1923/1948	QMARK CWH1101DS	500	120	1	4.2	14AWG	15	20	1; 2; 3

NOTES:
1. PROVIDE WITH BUILT-IN DISCONNECT SWITCH.
2. PROVIDE 2" NON-RECESSED WALL CABINET/FRAME
3. PROVIDE WITH THERMOSTAT, SET FOR 40°F.

R&S Mechanical Consultant LLC
"Professional HVAC and Plumbing Designs"
1005 Oceanwood Avenue
N. Las Vegas, Nevada 89086
Tel: (702) 329-3953 Fax: (702) 982-6290

REVISIONS

ARCHITECT
kme ARCHITECTS
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6765 WEST RUSSELL ROAD, SUITE 200
LAS VEGAS, NEVADA 89118
P: 702-968-2088 / F: 702-968-2089
WEB: www.kmearchitects.com
CONSULTANT

WESTSIDE SCHOOL HISTORIC REHABILITATION
330 W. WASHINGTON AVE.
LAS VEGAS, NEVADA 89106
BID NUMBER: 12.43221-TF
CLV PLANS LIBRARY NUMBER: 715-175-1
MECHANICAL SCHEDULES

STAMP
NEVADA PROFESSIONAL ENGINEER STATE OF NEVADA
ROMULO J. ESPINO
Exp. 12-31-14
MECHANICAL
No. 19447

CONSTRUCTION DOCUMENTS
OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6535
FAX: (702) 382-3232
TDD: (702) 386-9108

DRAWN
FILE 2012-007
DATE 08-11-2014
SCALE AS SHOWN
BID NO
CLV DWG NO
SHT NO M2.20

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REVISED 8/14/13

EXHAUST FAN SCHEDULE

MARK	MANUFACTURER	MODEL NO.	TYPE	EQUIPMENT SERVED	CFM	E.S.P. (IN. W.C.)	DRIVE	FAN RPM	OPER. WT. (LBS)	V/PH/HZ	MOTOR H.P. (WATTS)	REMARKS
	FAN DATA									ELECTRICAL DATA		SEE RFI #_026-040
EF 1	GREENHECK OR EQUAL	SP-A410	CEILING MOUNTED	MENS TOILET 110 BLDG 1923	300	0.38	DIRECT	1000	35	120/1/60	1.74 AMPS (121)	1 THRU 7. INSTALL PER MANUFACTURER INSTALLATION INSTRUCTION. NOTE: PROVIDE MOTION SENSOR DETECTOR AS REQUIRED. SEE SHEET M2.50 SEQUENCE OF OPERATIONS
EF 2	GREENHECK OR EQUAL	SP-A90	CEILING MOUNTED	JAN./ROOM 114 BLDG 1923	50	0.25	DIRECT	900	15	120/1/60	0.34 AMPS (29)	2; 3; 4; 5; 6; 7; 8; PROVIDE WITH FAN/LIGHT CONTROL WITH OFF DELAY SET @ 5 MINUTES. INSTALL PER MANUFACTURER INSTALLATION INSTRUCTION
EF 3	GREENHECK OR EQUAL	SP-A410	CEILING MOUNTED	WOMENS TOILET 102 BLDG 1923	300	0.38	DIRECT	1000	35	120/1/60	1.74 AMPS (121)	1 THRU 7. INSTALL PER MANUFACTURER INSTALLATION INSTRUCTION. NOTE: PROVIDE MOTION SENSOR DETECTOR AS REQUIRED. SEE SHEET M2.50 SEQUENCE OF OPERATIONS
EF 4	GREENHECK OR EQUAL	SP-A90	CEILING MOUNTED	UNISEX TOILET 126 ANNEX BLDG	60	0.25	DIRECT	900	15	120/1/60	0.34 AMPS (29)	1 THRU 7. INSTALL PER MANUFACTURER INSTALLATION INSTRUCTION. NOTE: PROVIDE MOTION SENSOR DETECTOR AS REQUIRED. SEE SHEET M2.50 SEQUENCE OF OPERATIONS
EF 5	GREENHECK OR EQUAL	SP-A410	CEILING MOUNTED	MENS TOILET 113 ANNEX BLDG	300	0.38	DIRECT	1000	35	120/1/60	1.74 AMPS (121)	1 THRU 7. INSTALL PER MANUFACTURER INSTALLATION INSTRUCTION. NOTE: PROVIDE MOTION SENSOR DETECTOR AS REQUIRED. SEE SHEET M2.50 SEQUENCE OF OPERATIONS
EF 6	GREENHECK OR EQUAL	SP-A410	CEILING MOUNTED	WOMENS TOILET 112 ANNEX BLDG	300	0.38	DIRECT	1000	35	120/1/60	1.74 AMPS (121)	1 THRU 7. INSTALL PER MANUFACTURER INSTALLATION INSTRUCTION. NOTE: PROVIDE MOTION SENSOR DETECTOR AS REQUIRED. SEE SHEET M2.50 SEQUENCE OF OPERATIONS
EF 7	GREENHECK OR EQUAL	SP-A125	CEILING MOUNTED	JAN./ROOM 114 ANNEX BLDG	100	0.25	DIRECT	1100	20	120/1/60	0.62 AMPS (53)	2; 3; 4; 5; 6; 7; 8; PROVIDE WITH FAN/LIGHT CONTROL WITH OFF DELAY SET @ 5 MINUTES. INSTALL PER MANUFACTURER INSTALLATION INSTRUCTION

NOTES
1. FAN CONTROL: SEE SEQUENCE OF OPERATIONS
2. TIME CLOCK PROVIDED BY DIVISION 16 SHALL CONTROL FAN
3. BIRDSCREEN
4. BACKDRAFT DAMPER
5. ISOLATION BASE/HANGER
6. STARTER TYPE – SEE ELECTRICAL
7. DISCONNECT – SEE ELECTRICAL
8. LIGHT SWITCH SHALL CONTROL FAN

Air System Sizing Summary for Westside School Hist. Bldg 1923

Project Name: Historic Westside School 08/05/2014
Prepared by: pid-icd 01:09PM

Air System Information
- Air System Name .. **Westside School Hist. Bldg 1923**
- Equipment Class ..... **PKG ROOF**
- Air System Type ..... **SZCAV**
- Number of zones **1**
- Floor Area ..... **4675.0** ft²
- Location ..... **Las Vegas, Nevada**

Sizing Calculation Information
Zone and Space Sizing Method:
- Zone CFM ..... **Sum of space airflow rates**
- Space CFM ..... **Individual peak space loads**
- Calculation Months ..... **Jan to Dec**
- Sizing Data ..... **Calculated**

Central Cooling Coil Sizing Data

Total coil load	35.3	Tons	Load occurs at	Jul 1700	
Total coil load	423.9	MBH	OA DB / WB	107.3 / 70.8	°F
Sensible coil load	372.9	MBH	Entering DB / WB	77.9 / 61.7	°F
Coil CFM at Jul 1700	14587	CFM	Leaving DB / WB	52.3 / 50.8	°F
Max block CFM	17473	CFM	Coil ADP	49.4	°F
Sum of peak zone CFM	17473	CFM	Bypass Factor	0.100	
Sensible heat ratio	0.880		Resulting RH	46	%
ft²/Ton	132.4		Design supply temp.	55.0	°F
BTU/(hr-ft²)	90.7		Zone T-stat Check	1 of 1	OK
Water flow @ 10.0 °F rise	N/A		Max zone temperature deviation	0.0	°F

Central Heating Coil Sizing Data

Max coil load	133.9	MBH	Load occurs at	Des Htg	
Coil CFM at Des Htg	3058	CFM	BTU/(hr-ft²)	28.6	
Max coil CFM	17473	CFM	Ent. DB / Lvg DB	66.5 / 110.4	°F
Water flow @ 20.0 °F drop	N/A				

Supply Fan Sizing Data

Actual max CFM	17473	CFM	Fan motor BHP	3.82	BHP
Standard CFM	16140	CFM	Fan motor kW	2.85	kW
Actual max CFM/ft²	3.74	CFM/ft²	Fan static	0.75	in wg

Outdoor Ventilation Air Data

Design airflow CFM	3070	CFM	CFM/person	11.95	CFM/person
CFM/ft²	0.66	CFM/ft²			

Hourly Analysis Program v.4.2 Page 1 of 1

Air System Sizing Summary for Annex West. Sch Hist. Bldg 1948

Project Name: Historic Westside School 08/05/2014
Prepared by: pid-icd 01:05PM

Air System Information
- Air System Name . **Annex West. Sch Hist. Bldg 1948**
- Equipment Class ..... **PKG ROOF**
- Air System Type ..... **SZCAV**
- Number of zones **1**
- Floor Area ..... **10686.0** ft²
- Location ..... **Las Vegas, Nevada**

Sizing Calculation Information
Zone and Space Sizing Method:
- Zone CFM ..... **Sum of space airflow rates**
- Space CFM ..... **Individual peak space loads**
- Calculation Months ..... **Jan to Dec**
- Sizing Data ..... **Calculated**

Central Cooling Coil Sizing Data

Total coil load	53.6	Tons	Load occurs at	Jul 1700	
Total coil load	642.7	MBH	OA DB / WB	107.3 / 70.8	°F
Sensible coil load	591.8	MBH	Entering DB / WB	76.4 / 60.7	°F
Coil CFM at Jul 1700	24594	CFM	Leaving DB / WB	52.3 / 50.8	°F
Max block CFM	29602	CFM	Coil ADP	49.6	°F
Sum of peak zone CFM	29602	CFM	Bypass Factor	0.100	
Sensible heat ratio	0.921		Resulting RH	44	%
ft²/Ton	199.5		Design supply temp.	55.0	°F
BTU/(hr-ft²)	60.1		Zone T-stat Check	1 of 1	OK
Water flow @ 10.0 °F rise	N/A		Max zone temperature deviation	0.0	°F

Central Heating Coil Sizing Data

Max coil load	203.8	MBH	Load occurs at	Des Htg	
Coil CFM at Des Htg	4884	CFM	BTU/(hr-ft²)	19.1	
Max coil CFM	29602	CFM	Ent. DB / Lvg DB	68.5 / 110.3	°F
Water flow @ 20.0 °F drop	N/A				

Supply Fan Sizing Data

Actual max CFM	29602	CFM	Fan motor BHP	6.47	BHP
Standard CFM	27345	CFM	Fan motor kW	4.82	kW
Actual max CFM/ft²	2.77	CFM/ft²	Fan static	0.75	in wg

Outdoor Ventilation Air Data

Design airflow CFM	3962	CFM	CFM/person	14.20	CFM/person
CFM/ft²	0.37	CFM/ft²			

Hourly Analysis Program v.4.2 Page 1 of 1

AIR SYSTEM SIZING SUMMARY FOR WESTSIDE SCHOOL HISTORIC BUILDING 1923 AND ANNEX BUILDING 1948

OUTDOOR AIR CALCULATION (Breathing Zone) per 2009 UMC and ASHRAE Standard 62.1, Table 6-1
HISTORIC WESTSIDE SCHOOL and VARIETY EARLY LEARNING CENTER

ITEM	AREA ROOM NO.	Wide Ft.	Length Ft.	Area sq. ft.	*Rp* per person	*Pz* No. of people	*Ra* O.A. rate/unit	*Az* Zone Area	*Ez* effect.	*Vot* O.A. min.	Design Min. Outside Air	FCU'S Unit QTY	REMARKS
	HISTORIC Westside School												
1	NE Exhibit Hall 112	26.25	45.67	1,199	7.5	72	0.06	1,199	1.0	*612*	*650*	*2*	*FCU H-1A, FCU H-1B*
2	Offices 111	26.25	8.83	232	15	4	0.06	232	1.0	*74*	*200*	*1*	*FCU H-2*
3	Men's Toilet 110	8.25	25.5	210									
4	Janitor 107	8.7	4.5	39									
5	Storage 108/Electrical Room 109	8.7	21.75	189									
6	SE Meeting Room 106	30.83	26.25	809	5	50	0.06	809	1.0	*299*	*300*	*1*	*FCU H-3*
7	Hallway 100	9.75	81	790	5	32	0.06	790	1.0	*207*	*210*	*1*	*FCU H-4*
8	SW Meeting Room 101, Storage 113, 114	36	25.25	909	5	50	0.06	909	1.0	*305*	*350*	*1*	*FCU H-5*
9	Women's Toilet 102	25	8	200									
10	NW Exhibit Hall 105	30.17	26.17	790	7.5	49	0.06	790	1.0	*415*	*500*	*1*	*FCU H-6*
11	Closets 103/104	26.17	5.75	150									
	Sub-Total:			***5,517***		***257***				***1911***	***2210***	***7***	
	Historic Westside ANNEX School												
1	NEends Offices 144, 145, 146, 147	24	26.25	630	5	11	0.06	630	1.0	*93*	*100*	*1*	*FCU A1*
2	Hall/ Closet 143, 148	24	6.25	150									
3	NE Open Office/ Offices 140, 141, 142	24	33	792	5	11	0.06	792	1.0	*103*	*105*	*1*	*FCU A2*
4	NE Office 137, 139, Conference 138	24	32.5	780	5	17	0.06	780	1.0	*132*	*135*	*1*	*FCU A3*
5	Storage 135/Closet 153	19.5	6	117									
6	Elect. Room 134/ Closet 154	19.5	6	117									
7	Elec./KCEP's Server Room 136	9.5	12.25	116								*1*	*FCU A4A Cooling ONLY*
8	Waiting, Prod., Control 128 thru 133	24	41.17	988	5	17	0.06	988	1.0	*144*	*200*	*2*	*FCU A4B, A4C (Standby Unit)*
9	Toilet 126	5	8.8	44									
10	Hall 149	6.6	9.67	64									
11	Reception 127	11.5	9.67	111	5	3	0.06	111	1.0	*22*	*25*		
12	Waiting Room 125	24	8	192	5	10	0.06	192	1.0	*62*	*65*	*1*	*FCU A5*
13	Dining Area 123	17.5	24	420	7.5	36	0.18	420	1.0	*346*	*350*	*1*	*FCU A6*
14	SW Prep Service/ Dining Area 122	34.5	24	828	7.5	25	0.18	828	1.0	*337*	*340*	*1*	*FCU A7*
15	Dish Wash Rm. 121	19.5	4.96	97									
16	Storage 120, Closets 155	5	4.5	23									
17	Storage 119, Closet 156	19.5	4.96	97									
18	Retail 118	24	32.46	779	7.5	23	0.12	779	1.0	*266*	*270*	*1*	*FCU A8*
19	Retail 117	24	32.67	784	7.5	23	0.12	784	1.0	*267*	*270*	*1*	*FCU A9*
20	Storage-Fire Riser Room 115, 114, 151	26.5	6	159									
21	Electrical Room 116	9.5	12	114									
22	Men's Toilet 113, Vest 152	10	22	220						*100*	*200*	*1*	*FCU A15*
23	Women's Toilet 112	10	22	220						*100*	*200*		
24	Closet 158, Closet 163	13	6	78									
25	Retail 111	24	37.83	908	7.5	22	0.12	908	1.0	*274*	*275*	*1*	*FCU A10*
26	Retail 110	24	32.75	786	7.5	23	0.12	786	1.0	*267*	*270*	*1*	*FCU A11*
27	Storage 108, Closet 159	19.5	6	117									
28	Storage 107, Closet 160	19.5	6	117									
29	Elect. Room 109	9.5	12	114									
30	Retail 106	24	32	768	7.5	22	0.12	768	1.0	*257*	*260*	*1*	*FCU A12*
31`	Retail 105	24	33	792	7.5	23	0.12	792	1.0	*268*	*270*	*1*	*FCU A13*
32	Storage 103, Closet 161	19.5	6	117									
33	Storage 102,Closet 152	19.5	6	117									
34	Elect./KCEP's Server Room 104	9.5	12	114								*1*	*FCU A16 Cooling ONLY*
35	Retail 101	24	32.17	772	7.5	23	0.12	772	1.0	*265*	*265*	*1*	*FCU A14*
36	Porch 100	24	18.83	452									
	Sub-Total:			***13,093***		***289***				***3,300***	***3,600***	***18***	
1	***Basement Area (N/A)***												
2	***Westside School Area***			***5,517***		***257***				***1,911***	***2,210***		
3	***Westside Annex Overall Area***			***13,093***		***289***				***3,300***	***3,600***		
	TOTAL FLOOR AREA			***18,611 Sq. Ft.***		***546 People***				***5,211 CFM Outside Air***	***5,810 CFM Min. Outside Air***	***25***	

R&S Mechanical Consultant LLC
"Professional HVAC and Plumbing Designs"
1005 Oceanwood Avenue
N. Las Vegas, Nevada 89086
Tel: (702) 321-3953 Fax: (702) 982-6280

REVISIONS

ARCHITECT

kme ARCHITECTS ®

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6765 WEST RUSSELL ROAD, SUITE 200
LAS VEGAS, NEVADA 89118
P: 702-888-2088 / F: 702-888-2089
WEB: www.kmearchitects.com

CONSULTANT

WESTSIDE SCHOOL HISTORIC REHABILITATION
330 W. WASHINGTON AVE.
LAS VEGAS, NEVADA 89106

BID NUMBER: 12.43221-TF

CLV PLANS LIBRARY NUMBER: 715-175-1
MECHANICAL SCHEDULES AND AIR SYSTEM SIZING SUMMARY FOR WESTSIDE SCHOOL HISTORIC BLDG 1923 AND ANNEX BLDG 1948

STAMP
PROFESSIONAL ENGINEER - STATE OF NEVADA
ROMULO J. ESPINO
Exp. 12-31-14
MECHANICAL
No. 19437

CONSTRUCTION DOCUMENTS

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6535
FAX: (702) 382-3232
TDD: (702) 386-9108

DRAWN
FILE 2012–007
DATE 08–11–2014
SCALE AS SHOWN
BID NO
CLV DWG NO
SHT NO
M2.30

REVISED 8/14/13

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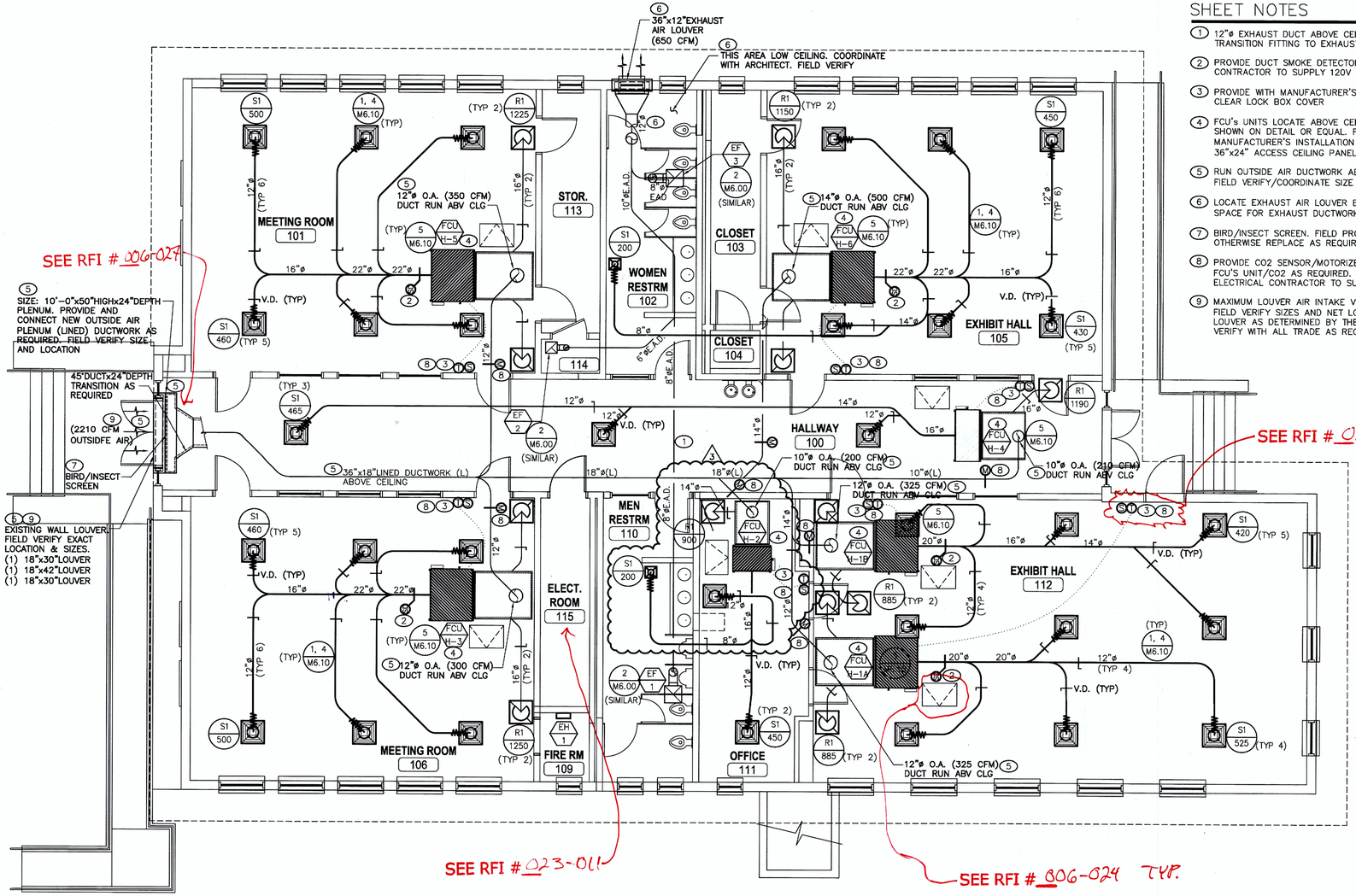

SHEET NOTES

1. 12"ø EXHAUST DUCT ABOVE CEILING RUN CONNECT TO EF-1, EF-2 & EF-3. PROVIDE TRANSITION FITTING TO EXHAUST FAN INLET AS REQUIRED
2. PROVIDE DUCT SMOKE DETECTOR ON SUPPLY AIR DISCHARGE PLENUM. ELECTRICAL CONTRACTOR TO SUPPLY 120V POWER
3. PROVIDE WITH MANUFACTURER'S/EQUIPMENT SUPPLIER PROGRAMMABLE T'STAT WITH CLEAR LOCK BOX COVER
4. FCU's UNITS LOCATE ABOVE CEILING. PROVIDE RETURN PLENUM/FILTER ASSEMBLY AS SHOWN ON DETAIL OR EQUAL. FIELD VERIFY SIZES AS REQUIRED. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTION AS REQUIRED. PROVIDE AND LOCATE 36"x24" ACCESS CEILING PANEL. PROVIDE DUCT TRANSITION AS REQUIRED
5. RUN OUTSIDE AIR DUCTWORK ABOVE CEILING AND CONNECT TO EXISTING WALL LOUVER. FIELD VERIFY/COORDINATE SIZE AND EXACT LOCATION
6. LOCATE EXHAUST AIR LOUVER BELOW ROOF (ABOVE CEILING) OR ARCHITECT TO PROVIDE SPACE FOR EXHAUST DUCTWORK/OR CEILING SOFFIT (DROP CEILING) AS REQUIRED
7. BIRD/INSECT SCREEN. FIELD PROVIDE AND VERIFY IF DAMAGE/OR NON-OPERATIONAL OTHERWISE REPLACE AS REQUIRED
8. PROVIDE CO2 SENSOR/MOTORIZED OUTSIDE AIR DAMPER AND INTERLOCK TO ASSOCIATED FCU'S UNIT/CO2 AS REQUIRED. INSTALL PER MANUFACTURER'S INSTALLATION GUIDELINES. ELECTRICAL CONTRACTOR TO SUPPLY 120V POWER
9. MAXIMUM LOUVER AIR INTAKE VELOCITY SHALL BE 450 FPM AS REQUIRED PER CODE. FIELD VERIFY SIZES AND NET LOUVER SIZES OPENING, AND REPLACE/MATCH EXISTING LOUVER AS DETERMINED BY THE MECHANICAL CONTRACTOR. FIELD COORDINATE AND VERIFY WITH ALL TRADE AS REQUIRED.

INSTRUCTIONS TO GEN. CONTRACTOR:

1. VERIFY SIZE, DEPTH, & LOCATION OF EXISTING UTILITIES BEFORE STARTING WORK
2. MECHANICAL CONTRACTOR TO FIELD VERIFY ALL EXISTING HVAC EQUIPMENT/ SYSTEM, PIPING SYSTEM AND PLUMBING SYSTEM PRIOR TO COMMENCE WORK
3. SUBMISSION OF A BID PROPOSAL, DIRECTLY OR INDIRECTLY BY THE CONTRACTOR FOR THIS WORK, SHALL IMPLY THAT THE BIDDER HAS EXAMINED THE JOB SITE AND UNDERSTANDS THE CONDITIONS THAT MAY AFFECT THE PERFORMANCE OF THE WORK. CONTRACTOR IS EXPECTED TO CONTACT ARCHITECT FOR ANY PARTICULAR PROBLEMS AND CLEAR UP ANY POSSIBLE MISUNDERSTANDING BEFORE BID IS SUBMITTED
4. ALL WORK REQUIRED FOR IDENTICAL ITEMS SHOWN ON THE DRAWINGS SHALL BE PROVIDED ALTHOUGH EACH SPECIFIC IDENTICAL ITEM MAY NOT BE SHOWN IN DETAIL—OR CALLED OUT
5. DRAWINGS ARE DIAGRAMMATIC, SMALL SCALE, AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED. CERTAIN COMPONENTS, APPURTENANCES, AND RELATED SPECIALTIES ARE NOT SHOWN, AND SHALL BE PROVIDED. IT IS THE INTENT OF THE DRAWING TO CALL FOR FINISHED WORK, TESTED AND READY FOR OPERATION. ARRANGEMENT OF EQUIPMENT AND ROUTING OF DUCTS OR PIPES AND ETC. INDICATED ON DRAWINGS MAY REQUIRE MODIFICATION DUE TO UNFORESEEN CONDITIONS AND REQUIRED ON SITE REVISIONS DURING CONSTRUCTION

GENERAL NOTES

1. SEAL ALL ROOF AND WALL PENETRATIONS WATER TIGHT.
2. VERIFY ALL FCU'S UNITS AND/OR WALL/ROOF LOUVERS/VENTS LOCATION WITH ARCHITECTURAL AND STRUCTURAL PLANS.
3. COORDINATE ROUTING OF DUCTWORK WITH EXISTING CONDITIONS AND ARCHITECTURAL PLANS.
4. COORDINATE DIFFUSER AND GRILLE LOCATIONS WITH ARCHITECTURAL AND ELECTRICAL PLANS.
5. REFER TO DIFFUSER AND GRILLE SCHEDULE FOR ANY UNMARKED RUN-OUT DUCT SIZES.
6. COORDINATE EXACT ROUTING OF DUCTWORK WITH ALL TRADES. ROUTING SHOWN IS SCHEMATIC ONLY.
7. VERIFY LOCATION OF ALL T'STATS PRIOR TO INSTALLATION. PROVIDE INSULATED SUBBASE FOR ALL T'STATS MOUNTED ON EXTERIOR WALL.
8. INSTALL T'STAT PER LATEST ADA REQUIREMENTS.
9. ACCESS DOORS ARE REQUIRED FOR ALL DAMPERS, ETC. INSTALLED ABOVE INACCESSIBLE CEILINGS. COORDINATE EXACT LOCATION OF ALL ACCESS DOORS WITH ARCHITECT PRIOR TO INSTALLATION. KEEP ACCESS DOORS CLEAR OF ALL PIPING, CONDUIT, ETC.
10. MAINTAIN EXHAUST FANS A MINIMUM OF 10'-0" AWAY FROM ANY OA INTAKE.

MECHANICAL HISTORIC BUILDING 1923 FLOOR PLAN 1

SCALE: 3/16" = 1'-0"

R&S Mechanical Consultant LLC
Professional HVAC and Plumbing Designs
1063 Cottonwood Avenue
Las Vegas, Nevada 89106
Tel: (702) 327-3953 Fax: (702) 952-0250

REVISIONS
1 (NOT-USED)
2 (NOT-USED)
3 REVISED AS SHOWN-11/21/14

ARCHITECT
kme ARCHITECTS
©KME Architects LLC, 2010
6795 WEST RUSSELL ROAD, SUITE 200
LAS VEGAS, NEVADA 89118
P: 702-888-2088 / F: 702-889-2089
WEB: www.kmearchitects.com
CONSULTANT

WESTSIDE SCHOOL HISTORIC REHABILITATION

330 W. WASHINGTON AVE.
LAS VEGAS, NEVADA 89106

BID NUMBER: 12.43221-TF

CLV PLANS LIBRARY NUMBER: 715-175-1

MECHANICAL HISTORIC BUILDING 1923 FLOOR PLAN

STAMP
PROFESSIONAL ENGINEER STATE OF NEVADA
ROMULO J. ESPIÑO
Exp. 12-31-14
MECHANICAL
No. 19497

CONSTRUCTION DOCUMENTS

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6535
FAX: (702) 382-3232
TDD: (702) 386-9108

DRAWN ER/RE
FILE 2012-007
DATE 08-11-2014
SCALE AS SHOWN
BID NO 12.43221-TF
CLV DWG NO 715-175-1
SHT NO **M3.20**

REVISED 8/14/13

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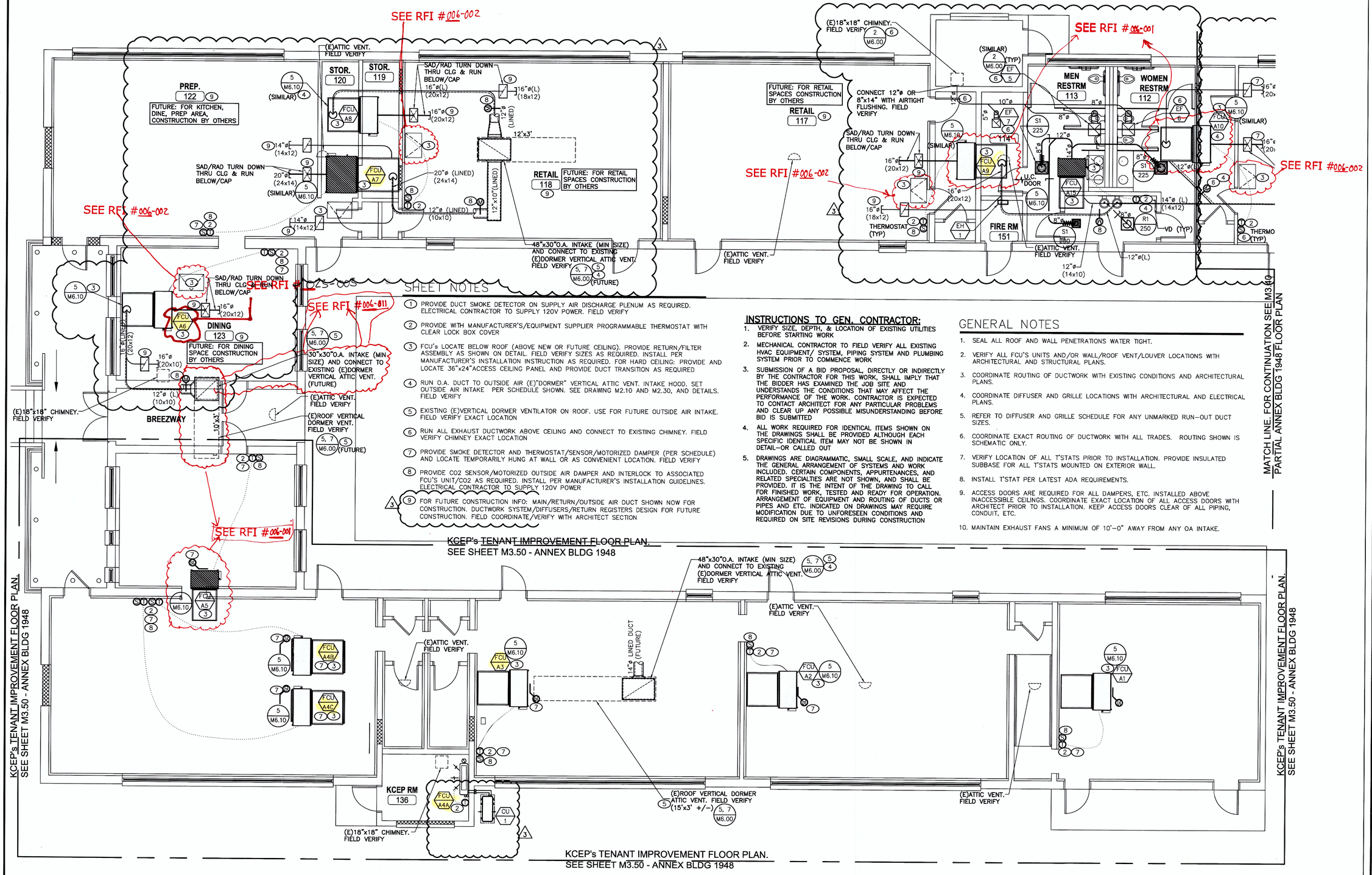

SHEET NOTES

1. PROVIDE DUCT SMOKE DETECTOR ON SUPPLY AIR DISCHARGE PLENUM AS REQUIRED. ELECTRICAL CONTRACTOR TO SUPPLY 120V POWER. FIELD VERIFY
2. PROVIDE WITH MANUFACTURER'S/EQUIPMENT SUPPLIER PROGRAMMABLE THERMOSTAT WITH CLEAR LOCK BOX COVER
3. FCU's LOCATE BELOW ROOF (ABOVE NEW OR FUTURE CEILING). PROVIDE RETURN/FILTER ASSEMBLY AS SHOWN ON DETAIL. FIELD VERIFY SIZES AS REQUIRED. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTION AS REQUIRED. FOR HARD CEILING: PROVIDE AND LOCATE 36"x24"ACCESS CEILING PANEL AND PROVIDE DUCT TRANSITION AS REQUIRED
4. RUN O.A. DUCT TO OUTSIDE AIR (E)"DORMER" VERTICAL ATTIC VENT. INTAKE HOOD. SET OUTSIDE AIR INTAKE PER SCHEDULE SHOWN. SEE DRAWING M2.10 AND M2.30, AND DETAILS. FIELD VERIFY
5. EXISTING (E)VERTICAL DORMER VENTILATOR ON ROOF. USE FOR FUTURE OUTSIDE AIR INTAKE. FIELD VERIFY EXACT LOCATION
6. RUN ALL EXHAUST DUCTWORK ABOVE CEILING AND CONNECT TO EXISTING CHIMNEY. FIELD VERIFY CHIMNEY EXACT LOCATION
7. PROVIDE SMOKE DETECTOR AND THERMOSTAT/SENSOR/MOTORIZED DAMPER (PER SCHEDULE) AND LOCATE TEMPORARILY HUNG AT WALL OR AS CONVENIENT LOCATION. FIELD VERIFY
8. PROVIDE CO2 SENSOR/MOTORIZED OUTSIDE AIR DAMPER AND INTERLOCK TO ASSOCIATED FCU'S UNIT/CO2 AS REQUIRED. INSTALL PER MANUFACTURER'S INSTALLATION GUIDELINES. ELECTRICAL CONTRACTOR TO SUPPLY 120V POWER
9. FOR FUTURE CONSTRUCTION INFO: MAIN/RETURN/OUTSIDE AIR DUCT SHOWN NOW FOR CONSTRUCTION. DUCTWORK SYSTEM/DIFFUSERS/RETURN REGISTERS DESIGN FOR FUTURE CONSTRUCTION. FIELD COORDINATE/VERIFY WITH ARCHITECT SECTION

INSTRUCTIONS TO GEN. CONTRACTOR:

1. VERIFY SIZE, DEPTH, & LOCATION OF EXISTING UTILITIES BEFORE STARTING WORK
2. MECHANICAL CONTRACTOR TO FIELD VERIFY ALL EXISTING HVAC EQUIPMENT/ SYSTEM, PIPING SYSTEM AND PLUMBING SYSTEM PRIOR TO COMMENCE WORK
3. SUBMISSION OF A BID PROPOSAL, DIRECTLY OR INDIRECTLY BY THE CONTRACTOR FOR THIS WORK, SHALL IMPLY THAT THE BIDDER HAS EXAMINED THE JOB SITE AND UNDERSTANDS THE CONDITIONS THAT MAY AFFECT THE PERFORMANCE OF THE WORK. CONTRACTOR IS EXPECTED TO CONTACT ARCHITECT FOR ANY PARTICULAR PROBLEMS AND CLEAR UP ANY POSSIBLE MISUNDERSTANDING BEFORE BID IS SUBMITTED
4. ALL WORK REQUIRED FOR IDENTICAL ITEMS SHOWN ON THE DRAWINGS SHALL BE PROVIDED ALTHOUGH EACH SPECIFIC IDENTICAL ITEM MAY NOT BE SHOWN IN DETAIL—OR CALLED OUT
5. DRAWINGS ARE DIAGRAMMATIC, SMALL SCALE, AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED. CERTAIN COMPONENTS, APPURTENANCES, AND RELATED SPECIALTIES ARE NOT SHOWN, AND SHALL BE PROVIDED. IT IS THE INTENT OF THE DRAWING TO CALL FOR FINISHED WORK, TESTED AND READY FOR OPERATION. ARRANGEMENT OF EQUIPMENT AND ROUTING OF DUCTS OR PIPES AND ETC. INDICATED ON DRAWINGS MAY REQUIRE MODIFICATION DUE TO UNFORESEEN CONDITIONS AND REQUIRED ON SITE REVISIONS DURING CONSTRUCTION

GENERAL NOTES

1. SEAL ALL ROOF AND WALL PENETRATIONS WATER TIGHT.
2. VERIFY ALL FCU'S UNITS AND/OR WALL/ROOF VENT/LOUVER LOCATIONS WITH ARCHITECTURAL AND STRUCTURAL PLANS.
3. COORDINATE ROUTING OF DUCTWORK WITH EXISTING CONDITIONS AND ARCHITECTURAL PLANS.
4. COORDINATE DIFFUSER AND GRILLE LOCATIONS WITH ARCHITECTURAL AND ELECTRICAL PLANS.
5. REFER TO DIFFUSER AND GRILLE SCHEDULE FOR ANY UNMARKED RUN-OUT DUCT SIZES.
6. COORDINATE EXACT ROUTING OF DUCTWORK WITH ALL TRADES. ROUTING SHOWN IS SCHEMATIC ONLY.
7. VERIFY LOCATION OF ALL T'STATS PRIOR TO INSTALLATION. PROVIDE INSULATED SUBBASE FOR ALL T'STATS MOUNTED ON EXTERIOR WALL.
8. INSTALL T'STAT PER LATEST ADA REQUIREMENTS.
9. ACCESS DOORS ARE REQUIRED FOR ALL DAMPERS, ETC. INSTALLED ABOVE INACCESSIBLE CEILINGS. COORDINATE EXACT LOCATION OF ALL ACCESS DOORS WITH ARCHITECT PRIOR TO INSTALLATION. KEEP ACCESS DOORS CLEAR OF ALL PIPING, CONDUIT, ETC.
10. MAINTAIN EXHAUST FANS A MINIMUM OF 10'-0" AWAY FROM ANY OA INTAKE.

KCEP's TENANT IMPROVEMENT FLOOR PLAN. SEE SHEET M3.50 - ANNEX BLDG 1948

KCEP's TENANT IMPROVEMENT FLOOR PLAN. SEE SHEET M3.50 - ANNEX BLDG 1948

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MECHANICAL PARTIAL ANNEX BUILDING1948 FLOOR PLAN - SOUTH AREA 1

SCALE: 3/16" = 1'-0"

R&S Mechanical Consultant LLC
"Professional HVAC and Plumbing Designs"
1005 Evanswood Avenue
Las Vegas, Nevada 89106
Tel: (702) 327-3933 Fax: (702) 952-6250

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kme ARCHITECTS
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8765 WEST RUSSELL ROAD, SUITE 200
LAS VEGAS, NEVADA 89148
P: 702-888-2088 / F: 702-888-2089
WEB: www.kmearchitects.com
CONSULTANT

WESTSIDE SCHOOL HISTORIC REHABILITATION

330 W. WASHINGTON AVE.
LAS VEGAS, NEVADA 89106

BID NUMBER: 12.43221-TF

CLV PLANS LIBRARY NUMBER: 715-175-1

MECHANICAL PARTIAL ANNEX BUILDING 1948 FLOOR PLAN - SOUTH AREA

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NEVADA STATE OF ENGINEER
ROMULO J. ESPINO
Exp. 12-31-14
MECHANICAL
No. 19447

CONSTRUCTION DOCUMENTS

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6535
FAX: (702) 382-3232
TDD: (702) 386-9108

DRAWN	ER/RE
FILE	2012-007
DATE	08-11-2014
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BID NO	12.43221-TF
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SHT NO	M3.30

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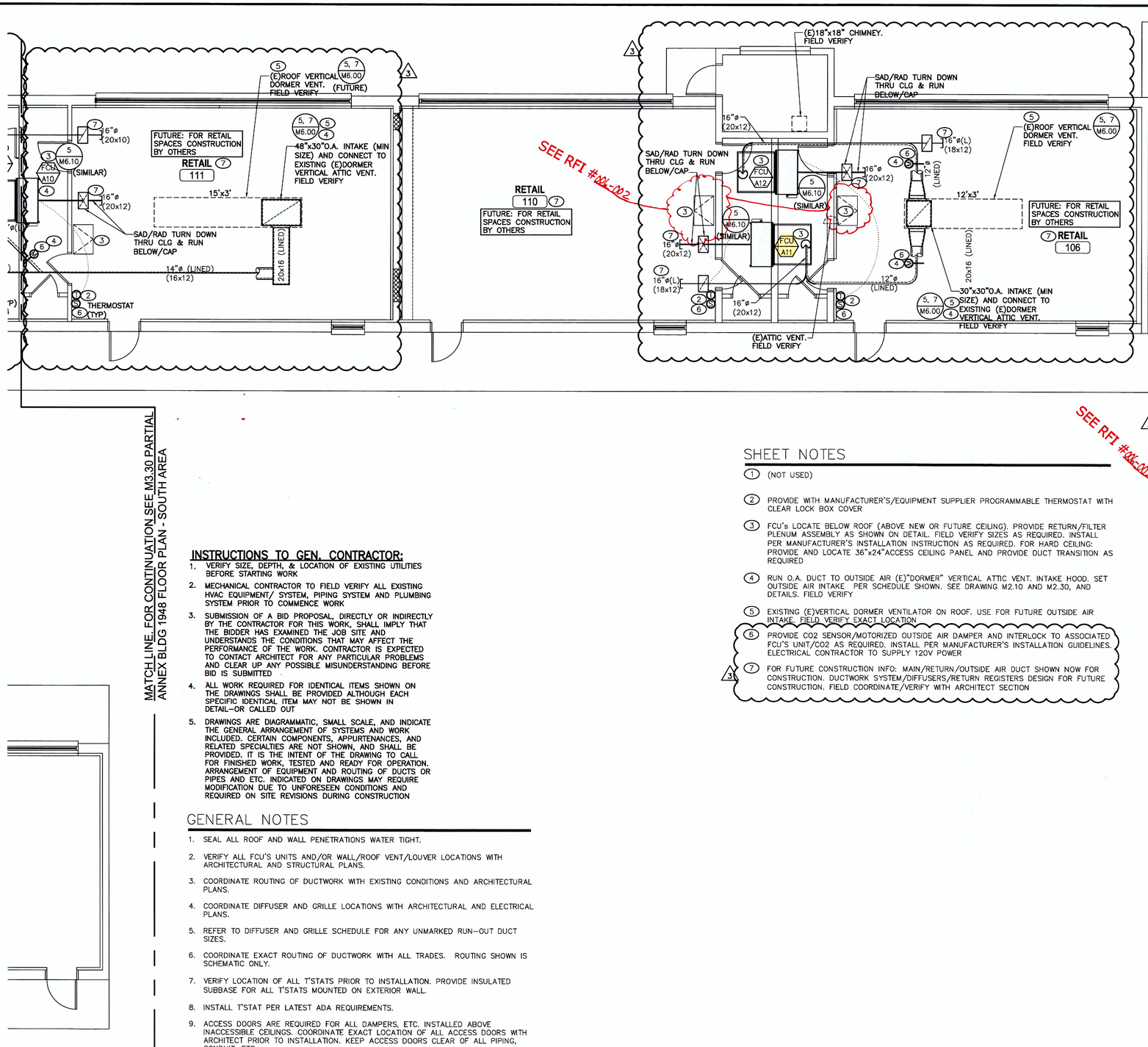

MATCH LINE. FOR CONTINUATION SEE M3.30 PARTIAL ANNEX BLDG 1948 FLOOR PLAN - SOUTH AREA

INSTRUCTIONS TO GEN. CONTRACTOR:

1. VERIFY SIZE, DEPTH, & LOCATION OF EXISTING UTILITIES BEFORE STARTING WORK
2. MECHANICAL CONTRACTOR TO FIELD VERIFY ALL EXISTING HVAC EQUIPMENT/ SYSTEM, PIPING SYSTEM AND PLUMBING SYSTEM PRIOR TO COMMENCE WORK
3. SUBMISSION OF A BID PROPOSAL, DIRECTLY OR INDIRECTLY BY THE CONTRACTOR FOR THIS WORK, SHALL IMPLY THAT THE BIDDER HAS EXAMINED THE JOB SITE AND UNDERSTANDS THE CONDITIONS THAT MAY AFFECT THE PERFORMANCE OF THE WORK. CONTRACTOR IS EXPECTED TO CONTACT ARCHITECT FOR ANY PARTICULAR PROBLEMS AND CLEAR UP ANY POSSIBLE MISUNDERSTANDING BEFORE BID IS SUBMITTED
4. ALL WORK REQUIRED FOR IDENTICAL ITEMS SHOWN ON THE DRAWINGS SHALL BE PROVIDED ALTHOUGH EACH SPECIFIC IDENTICAL ITEM MAY NOT BE SHOWN IN DETAIL–OR CALLED OUT
5. DRAWINGS ARE DIAGRAMMATIC, SMALL SCALE, AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED. CERTAIN COMPONENTS, APPURTENANCES, AND RELATED SPECIALTIES ARE NOT SHOWN, AND SHALL BE PROVIDED. IT IS THE INTENT OF THE DRAWING TO CALL FOR FINISHED WORK, TESTED AND READY FOR OPERATION. ARRANGEMENT OF EQUIPMENT AND ROUTING OF DUCTS OR PIPES AND ETC. INDICATED ON DRAWINGS MAY REQUIRE MODIFICATION DUE TO UNFORESEEN CONDITIONS AND REQUIRED ON SITE REVISIONS DURING CONSTRUCTION

GENERAL NOTES

1. SEAL ALL ROOF AND WALL PENETRATIONS WATER TIGHT.
2. VERIFY ALL FCU'S UNITS AND/OR WALL/ROOF VENT/LOUVER LOCATIONS WITH ARCHITECTURAL AND STRUCTURAL PLANS.
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10. MAINTAIN EXHAUST FANS A MINIMUM OF 10'–0" AWAY FROM ANY OA INTAKE.

SHEET NOTES

1. (NOT USED)
2. PROVIDE WITH MANUFACTURER'S/EQUIPMENT SUPPLIER PROGRAMMABLE THERMOSTAT WITH CLEAR LOCK BOX COVER
3. FCU's LOCATE BELOW ROOF (ABOVE NEW OR FUTURE CEILING). PROVIDE RETURN/FILTER PLENUM ASSEMBLY AS SHOWN ON DETAIL. FIELD VERIFY SIZES AS REQUIRED. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTION AS REQUIRED. FOR HARD CEILING: PROVIDE AND LOCATE 36"x24"ACCESS CEILING PANEL AND PROVIDE DUCT TRANSITION AS REQUIRED
4. RUN O.A. DUCT TO OUTSIDE AIR (E)"DORMER" VERTICAL ATTIC VENT. INTAKE HOOD. SET OUTSIDE AIR INTAKE PER SCHEDULE SHOWN. SEE DRAWING M2.10 AND M2.30, AND DETAILS. FIELD VERIFY
5. EXISTING (E)VERTICAL DORMER VENTILATOR ON ROOF. USE FOR FUTURE OUTSIDE AIR INTAKE. FIELD VERIFY EXACT LOCATION
6. PROVIDE CO2 SENSOR/MOTORIZED OUTSIDE AIR DAMPER AND INTERLOCK TO ASSOCIATED FCU'S UNIT/CO2 AS REQUIRED. INSTALL PER MANUFACTURER'S INSTALLATION GUIDELINES. ELECTRICAL CONTRACTOR TO SUPPLY 120V POWER
7. FOR FUTURE CONSTRUCTION INFO: MAIN/RETURN/OUTSIDE AIR DUCT SHOWN NOW FOR CONSTRUCTION. DUCTWORK SYSTEM/DIFFUSERS/RETURN REGISTERS DESIGN FOR FUTURE CONSTRUCTION. FIELD COORDINATE/VERIFY WITH ARCHITECT SECTION

MECHANICAL PARTIAL ANNEX BUILDING 1948 FLOOR PLAN - NORTH AREA 1

SCALE: 3/16" = 1'-0"

R&S Mechanical Consultant LLC
"Professional HVAC and Plumbing Designs"
1005 Creanwood Avenue
N. Las Vegas, Nevada 89086
Tel: (702) 328-3933 Fax: (702) 982-6256

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6795 WEST RUSSELL ROAD, SUITE 200
LAS VEGAS, NEVADA 89118
P: 702-968-2088 / F: 702-968-2089
WEB: www.kmearchitects.com
CONSULTANT

WESTSIDE SCHOOL HISTORIC REHABILITATION

330 W. WASHINGTON AVE.
LAS VEGAS, NEVADA 89106

CLV PLANS LIBRARY NUMBER: 715-175-1

BID NUMBER: 12.43221-TF

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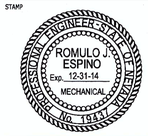

CONSTRUCTION DOCUMENTS

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6535
FAX: (702) 382-3232
TDD: (702) 386-9108

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FILE	2012–007
DATE	08–11–2014
SCALE	AS SHOWN
BID NO	12.43221–TF
CLV DWG NO	715–175–1
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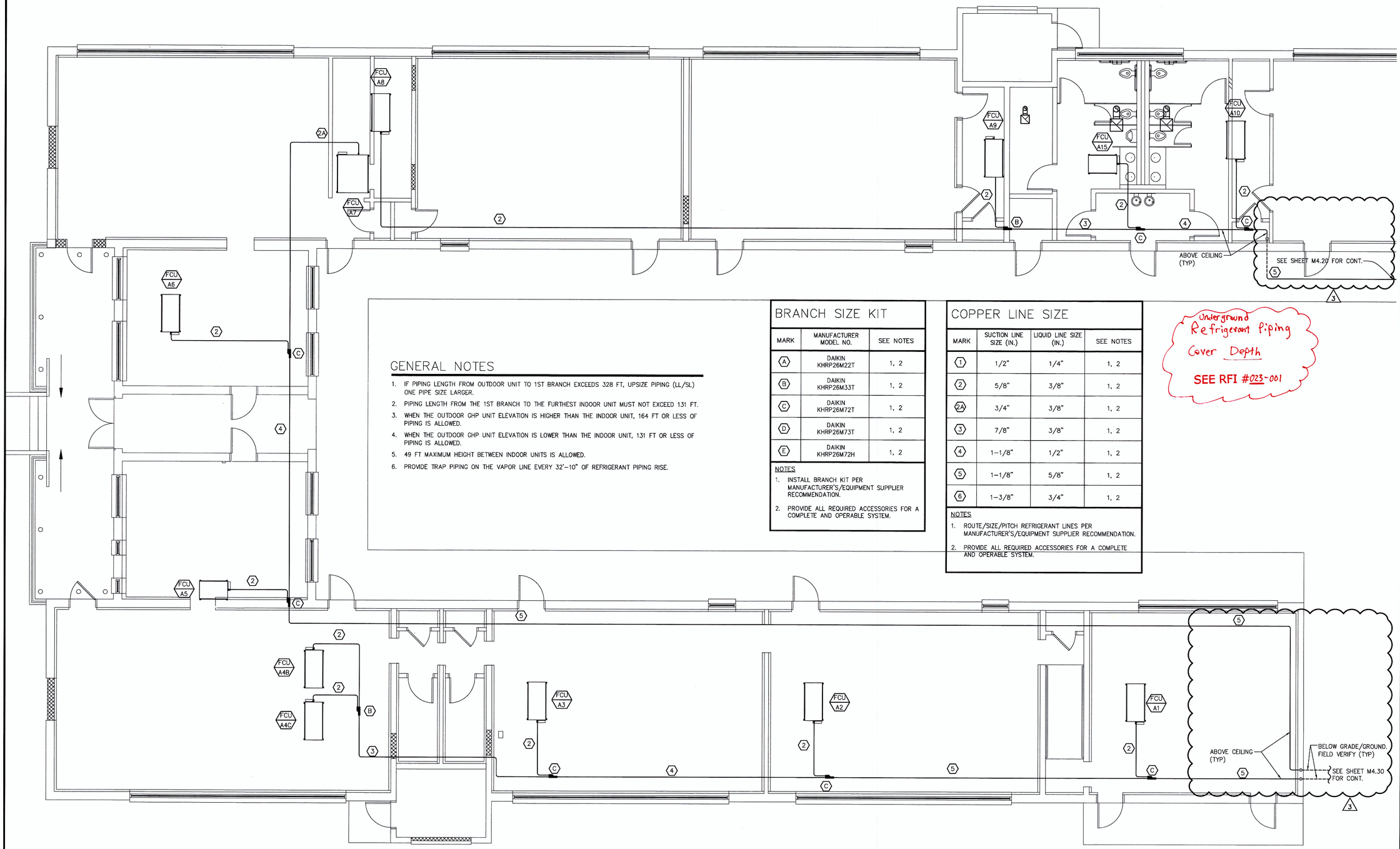

GENERAL NOTES

1. IF PIPING LENGTH FROM OUTDOOR UNIT TO 1ST BRANCH EXCEEDS 328 FT, UPSIZE PIPING (LL/SL) ONE PIPE SIZE LARGER.
2. PIPING LENGTH FROM THE 1ST BRANCH TO THE FURTHEST INDOOR UNIT MUST NOT EXCEED 131 FT.
3. WHEN THE OUTDOOR GHP UNIT ELEVATION IS HIGHER THAN THE INDOOR UNIT, 164 FT OR LESS OF PIPING IS ALLOWED.
4. WHEN THE OUTDOOR GHP UNIT ELEVATION IS LOWER THAN THE INDOOR UNIT, 131 FT OR LESS OF PIPING IS ALLOWED.
5. 49 FT MAXIMUM HEIGHT BETWEEN INDOOR UNITS IS ALLOWED.
6. PROVIDE TRAP PIPING ON THE VAPOR LINE EVERY 32'-10" OF REFRIGERANT PIPING RISE.

BRANCH SIZE KIT

MARK	MANUFACTURER MODEL NO.	SEE NOTES
A	DAIKIN KHRP26M22T	1, 2
B	DAIKIN KHRP26M33T	1, 2
C	DAIKIN KHRP26M72T	1, 2
D	DAIKIN KHRP26M73T	1, 2
E	DAIKIN KHRP26M72H	1, 2

NOTES
1. INSTALL BRANCH KIT PER MANUFACTURER'S/EQUIPMENT SUPPLIER RECOMMENDATION.
2. PROVIDE ALL REQUIRED ACCESSORIES FOR A COMPLETE AND OPERABLE SYSTEM.

COPPER LINE SIZE

MARK	SUCTION LINE SIZE (IN.)	LIQUID LINE SIZE (IN.)	SEE NOTES
1	1/2"	1/4"	1, 2
2	5/8"	3/8"	1, 2
2A	3/4"	3/8"	1, 2
3	7/8"	3/8"	1, 2
4	1-1/8"	1/2"	1, 2
5	1-1/8"	5/8"	1, 2
6	1-3/8"	3/4"	1, 2

NOTES
1. ROUTE/SIZE/PITCH REFRIGERANT LINES PER MANUFACTURER'S/EQUIPMENT SUPPLIER RECOMMENDATION.
2. PROVIDE ALL REQUIRED ACCESSORIES FOR A COMPLETE AND OPERABLE SYSTEM.

Underground Refrigerant Piping Cover Depth
SEE RFI #023-001

MECHANICAL REFRIGERANT PIPING PARTIAL FLOOR PLAN ANNEX BLDG SOUTH - HISTORIC BUILDING 1948

SCALE: 3/16" = 1'-0"

R&S Mechanical Consultant LLC
"Professional HVAC and Plumbing Designs"
1005 Ecanwood Avenue
N. Las Vegas, Nevada 89030
Tel: (702) 321-3933 Fax: (702) 992-6240

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8765 WEST RUSSELL ROAD, SUITE 200
LAS VEGAS, NEVADA 89113
P: 702-968-2088 / F: 702-968-2089
WEB: www.kmearchitects.com
CONSULTANT

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330 W. WASHINGTON AVE.
LAS VEGAS, NEVADA 89106

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MECHANICAL
REGISTERED PROFESSIONAL ENGINEER-STATE OF NEVADA

CONSTRUCTION DOCUMENTS

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6535
FAX: (702) 382-3232
TDD: (702) 386-9108

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FILE 2012-007
DATE 08-11-2014
SCALE AS SHOWN
BID NO 12.43221-TF
CLV DWG NO 715-175-1
SHT NO **M4.10**

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REVISED 8/14/13

PLUMBING SPECIFICATION

I. PART 1 – GENERAL

1.1 SUMMARY OF WORK

A. The work included consist of furnishing labor, materials and equipment for the installation and placing into operation a complete and operable plumbing system as specified and shown, including, but not limited to: plumbing fixtures, cold and hot water piping, drain/waste/vent (DWV) piping, gas piping, grease interceptor, water heater, miscellaneous drains and indirect waste, plumbing specialties, pipe supports, roof drains, etc., except as otherwise noted.

1.2 REGULATIONS, CODES, PERMITS AND INSPECTIONS

A. Comply with national, state, county, and city codes, ordinances, etc., having jurisdiction, including rules and requirements of utility serving agencies.

B. Incorporate codes, ordinances, etc., into the base bid and installation of work. No additional funds will be allocated for work required to conform to regulations and requirements and/or to obtain approval of work.

C. Obtain and pay for required permits and licenses. When required by code, work must be inspected and approved by local authorities.

D. In addition, the latest edition of the following published standards shall be adhered to:

1. International Building Code 2009 Edition and Amendments.
2. Uniform Mechanical Code 2009 Edition and Amendments.
3. NFPA Standards.
4. Uniform Plumbing Code 2009 Edition and Amendments.
5. National Electric Code 2005 Edition.
6. ASHRAE
7. 2009 International Energy Conservation Code

1.3 DESIGN DRAWINGS

A. Design drawings are diagrammatic and are intended only to define the basic functions required. Provide labor, material, etc., necessary to accomplish these requirements. Minor deviations from the design layout are anticipated and shall be considered a part of the work included; however, no changes that alter the character of the work will be permitted. Do not scale the design drawings. See architectural drawings for dimensions.

B. If a conflict occurs between the design drawings and specifications, promptly notify the architect and/or Engineer. Where disagreements occur between the drawing plans and specifications (Division 22 Book Specifications) or within either document itself, the item or arrangement of better quality, greater quantity, or higher cost, or stringent, shall be included in the base bid. The Engineer's attention at that point shall be called, and an interpretation will be made by the Architect and/or Engineer's and said decision shall be considered part of the Contract Documents.

1.4 QUALIFICATIONS OF WORKMEN

A. Use sufficient journeymen, craftsmen and supervisors to ensure prompt, proper, and safe execution of the work.

1.5 BASE BID

A. Base bid shall include materials and equipment specified or scheduled on the drawings. Requests for substitution of materials and equipment shall be by additive or deductive alternate bid only, with the following data clearly written at the beginning of the alternate proposal:

1. Additive or deductive amount clearly written in words and numerals.
2. Other demonstrable benefit, for which the substitution of such item will be in the Owner's interest.

B. Only those materials and equipment which are submitted as an alternate bid and which are accompanied by the supporting data indicated below will be reviewed and considered.

1.6 SUBSTITUTIONS

A. Substitute materials and equipment from the manufacturers listed will be considered. Prior to proposing any substitute item, Contractor shall satisfy himself that the item proposed is, in fact, equal to that specified, that such item will fit into the space allocated, that such item affords comparable ease of operation, maintenance and service, that the appearance, longevity, capacity and suitability are comparable, and that by reason of cost savings, reduced construction time, or similar demonstrable benefit, the substitution of such item will be in the Owner's interest.

B. The burden of proof of equality of a proposed substitution for a specified item shall be upon the Contractor. Contractor shall support its request with sufficient test data and other means to permit the Engineer to make a fair and equitable decision on the merits of the proposed substitution. Insufficient submittal data will result in rejection of the proposed substitution. Any item by a manufacturer other than those specified, or of brand name or model number, or of generic species other than those specified, will be considered a substitution. Engineer will be the sole judge of whether or not the substitution is equal in quality, utility and economy to that specified.

C. Approval of a substitution shall not relieve Contractor from responsibility for compliance with all requirements of the contract. Contractor shall bear the expense for any changes in other parts of this work or other work caused by the proposed substitution.

1.7 SUBMITTALS

A. Shop Drawings:

1. Prior to fabrication or delivery of any material and/or equipment to the jobsite, submit six (6) hard bound and indexed copies of a brochure completely describing each major system, material and equipment proposed to be used. Any piece of equipment placed on the job without prior approval will be subject to removal.
2. Submittal is for information and coordination only. Review of material and/or equipment submittals shall in no way relieve the Contractor of the responsibility to comply with plans and specification requirements. Points of non–compliance which are not noted shall not be construed to be an approval of the non–compliance. Submittals shall clearly state where equipment does not agree with the contract documents.
3. Submit items within 15 days of award of contract. Submittals shall include manufacturer's specifications, physical dimensions, weights and ratings of equipment submitted. Submittals shall be indexed and securely bound in a suitable manner.
4. Include detailed drawings where required for proper coordination with other trades. Indicate equipment layouts, electrical characteristics, wiring and control diagrams, sizes and locations of piping, ducts, conduits, and other items which effect the space available.
5. Submit the following item for approval: 1) Plumbing fixtures; 2) Piping and fittings; 3) water heater; 4) grease interceptor; 5) insulations; 6) piping supports, valves, fittings, etc.

B. Records Drawings:

1. Maintain accurate records of any changes from the contract documents and shop drawings. Upon completion of the project, deliver to the Owner one (1) set of legible and reproducible copies of these record drawings.

C. Guarantee:

1. Upon completion of the project, deliver to the Owner a one (1) year guarantee of the systems, materials and work performed, from date of acceptance by owner. Guarantee the entire cost, including materials and/or labor, of corrective work required and necessitated by defects in materials and/or workmanship.

D. Manual and Operating Instruction:

1. Upon the completion of the of the project, deliver to the Owner a hard bound "Owner's Manual". Include in the manual Instruction prepared specifically for the system provided, along with papers, descriptions, parts lists, instruction warranties, etc, which were delivered with the materials and equipment utilized in the project. Identify each item by the designation appearing on the drawings.
2. At the time designated, provide a suitable operator, mechanic or engineer to review the system with the Owner's Representative to thoroughly familiarize him with the operations and maintenance of the systems.

II. PART 2 – PRODUCTS

2.1 GENERAL PRODUCTS

A. Furnish and install new product of established and reputable American Manufacturers. Item of equipment used for the same purpose shall be of the same manufacturer.

B. System shall be complete and operable. Any accessories required for operation of the systems shall be included as though specifically indicated to be provided. Provide a shut–off valve for supply line to each individual item of equipment. Valves shall be concealed within fixture or equipment where possible.

C. Specific reference to a manufacturer's product is only to establish type, quality and performance required. These qualifications are in addition to the requirement shown on the plans and elsewhere in these specifications. Listing of alternate equipment manufacturer shall not be construed as an unconditional approval of the products of that manufacturer.

2.2 PIPING MATERIALS (See Schedule, sheet P2.10)

2.3 PIPE SUPPORT

A. Seismic Restraints:

a. Attachments for piping and equipment supported by the building structure shall be designed to resist seismic forces prescribed in IBC 2009 Edition.

b. Where required by the building officials, provide structural calculation signed by structural engineer.

B. Soil, Waste, Vent, and Storm Drain:

a. Plastic DWV pipe and fittings. Hangers shall be B–line Fig. B3104C or equivalent "ANVIL" pipe hanger with maximum spacing of four feet.

C. Water Piping:

a. Hangers shall be B–line Fig. 3170CT or equivalent ANVIL pipe hanger with maximum spacing of five feet up to 3/4–inch size. Six feet up to 1¼–inch size, and eight feet for up to 2–inch size. Support water piping in walls with LSP " Water Fab" kits.

2.4 PIPING INSULATION (See Schedule, sheet P2.10)

2.5 CLEANOUTS

A. Exterior surfaced or unsurfaced areas (GCO): Line type with prefabricated yard box with removable lid marked "SEWER" set flush with finish grade. Manufactured by "JR Smith" or "Zurn".

B. Interior finish floor areas (FCO): Two piece with double drainage flange. Weep holes, reversible clamping collar, and adjustable nickel–bronze round scoriated cover in services areas and round or square with depressed cover to accept floor finish in carpeted and finished floor areas. Manufactured by "JR Smith" or "Zurn".

C. Interior Finished Wall Areas (WCO): Line type with primed coated Steel access cover secured with machine screws. Manufactured by "JR Smith" or "Zurn".

D. Interior Unfinished Accessible Areas (WCO): Caulk or threaded type. Provide bolted stock cleanouts on vertical rainwater leaders. Manufactured by "JR Smith" or "Zurn".

PVC/ABS Piping Underground Reference

SEE RFI #033-001

GENERAL NOTES

1. ALL PLUMBING FIXTURES SHALL BE WATER CONSERVATION TYPE AS MANDATED BY LOCAL BUILDING DEPARTMENT
2. PRIOR TO INSTALLATION OF SEWER, GAS AND WATER PIPING BELOW GRADE COORDINATE EXACT LOCATIONS AND DEPTHS OF BURIAL WITH CIVIL AND FOUNDATION DRAWINGS AND CORRESPONDING ENGINEERS
3. PRIOR TO DETAILING & INSTALLING PLUMBING AND FIRE PROTECTION PIPING COORDINATE EXACT ROUTING AND ELEVATIONS WITH MECHANICAL, ELECTRICAL AND FIRE SPRINKLER CONTRACTORS. PROVIDE WRITTEN CONFIRMATION THAT THIS COORDINATION HAS BEEN IMPLEMENTED PRIOR TO PROCEEDING WITH INSTALLATION OF PIPING

III. Part 3 – EXECUTION

3.1 GENERAL

A. Install materials and equipment in an arrangement, which will give the greatest ease of operation and service to the owner.

B. Install equipment in accordance with manufacturer's recommended installation procedure.

C. Perform work in accordance with the best trade practices. Install materials and equipment squarely with the building lines. Provide rigid permanent bases and support for work. Construct and brace equipment, piping etc. so that there will be no vibration and or rattling when the system is in operation.

D. Cover and protect equipment and materials from weather, theft, etc., until date of completion. Plug and/or cap open ends of installed piping.

E. Before starting work, the Plumbing Contractor shall coordinate his work with other trades to avoid interference with air ducts, electrical conduits, etc.

F. Under no circumstances pipes be installed inside concrete slab.

3.2 INSTALLATION

A. Conceal piping in walls, furred spaces, pipe spaces, or above suspended ceilings, as shown in drawings. Group piping wherever practical and install uniformly in straight parallel lines, squarely with building lines.

B. Support horizontal piping with pipe hangers, do not use perforated metal tape. Arrange piping so that thermal expansion does not cause stress. Install and secure piping so that hot and cold lines, and lines of dissimilar metals are not in contact.

C. Verify equipment dimensions and requirements for rough in work. Bending and offsetting of finished piping connection and "cocking" of fittings or trim will not be acceptable. Do not support any piping weight from equipment.

D. Sanitary: Lay piping at uniform grade. Make joints close and square; Use fittings for turns and offsets. Uniformly grade and compact trenches prior to laying piping.

E. Cooling Coil Condensate Drain: At connection to cooling coil drain pan, provide a running trap, with vent same size as branch drain, downstream from trap, extend vent up to 6–inches above roof deck. Uniformly grade drain piping at ¼ inch per foot in accordance with UMC 2009 Edition. Terminate secondary drain at ceiling with a chrome–plated escutcheon and cut drainpipe flush with the escutcheon.

F. Vents thru roof shall be sealed with waterproof flashing constructed of lead or sheet metal compatible with the roofing system specified by the Architect.

G. Piping connection to plumbing fixtures, exposed piping and fittings shall be chrome plated.

H. Cutting and patching shall be approved by the Owner prior to performing the work.

I. All required cleanouts shall be installed as per applicable sections of the Uniform Plumbing Code 2009 Edition.

J. Each vent shall rise vertically to a point not less than six inches in height above the flood level rim of the fixture it serves before being connected to other vent.

K. Provide chrome plated angle stop (shut–off) valves for supply lines to each individual plumbing fixture. Valves shall be concealed within fixture or equipment where possible.

L. Provide dielectric union/nipple between two dissimilar metal pipes.

M. Provide chrome plated escutcheon on pipes passing through walls.

N. Maintain occupancy and firewall separation integrity as required. Refer to architectural plans for locations of firewalls, fire rated walls, floors and ceiling and details of construction. Provide all necessary city approved UL Listed fire proofing penetrations, sleeves, caulking, etc.

O. At the conclusion of the job, each piece of equipment, valve, pipe, etc., shall be clearly identified, whether exposed or concealed, per OSHA and ANSI regulations. Identify pipe with"Brandy–Perma" code pipe tape or T&B Westline tell–a–pipe indicating size, service and flow direction. Identify equipment with assigned tag or call out per schedule by means of permanently atached laminated phenolic nameplates with beveled edges and white letters on black background.

3.3. TESTING REQUIREMENTS

A. Test system in accordance with applicable codes, regulation, ordinances, etc. in particular the Uniform Plumbing Code, and as follows:

1. Sanitary: static pressure for one (1) hour.
2. Potable Water: Available pressure for one (1) hour.
3. Gas Piping: Pressure 14 inches water column or less; 10 PSI for one (1) hour.
4. Gas Piping: Over 14 inches water column or less; 60 PSI for one (1) hour.
5. Roof Drain, Overflow Roof Drains and Rainwater Piping Within the interior of the Building: Static water pressure for one (1) hour.

B. If any test shows the work to be defective in anyway or at variance with the specification requirements, make necessary changes and remedy defects.

C. Test piping system after installation and prior to being put into use, covered or concealed by insulation, backfilling or building construction.

3.4 DISINFECTION OF DOMESTIC WATER PIPING SYSTEM

A. Disinfect water piping in strict conformance with the requirements of the State of Nevada "Water Supply Regulations".

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PLUMBING LEGEND AND SYMBOLS

SYMBOL	DESCRIPTION
— — S — —	SANITARY OR WASTE BELOW SLAB
—— S ——	SANITARY OR WASTE ABOVE SLAB
— — GW — —	GREASE WASTE BELOW SLAB
— — V — —	VENT
— — VTR — —	VENT THROUGH ROOF
—— D ——	DRAIN OR INDIRECT WASTE
—— CD ——	CONDENSATE DRAIN
—— CW ——	COLD WATER
—— HW ——	HOT WATER
—— HWR ——	HOT WATER RETURN
—— G ——	LOW PRESSURE GAS
	CAP
	CLEAN OUT TO GRADE–DOUBLE
	FLOOR CLEAN OUT/ CLEAN OUT TO GRADE
	WALL CLEANOUT
	HOSE BIBB
	FLOOR SINK
	FLOOR DRAIN
	UNION
	BELT & SPIGOT
	FLANGED
	SOLDERED
	SOLVENT CEMENT
	THREADED
	WELDED
	CROSS
	ELBOW, 90°
	ELBOW, 45°
	ELBOW, TURNED UP
	ELBOW, TURNED DOWN
	LATERAL
	REDUCER, CONCENTRIC
	REDUCER, ECCENTRIC STRAIGHT INVERT
	REDUCER, ECCENTRIC STRAIGHT CROWN
	TEE
	TEE, OUTLET UP
	TEE, OUTLET DOWN
	TEE, SINGLE SWEEP
	POINT OF CONNECTION
	POINT OF DISCONNECTION

SYMBOL	DESCRIPTION
	BALL VALVE
	GATE VALVE
	GLOBE VALVE
	CHECK VALVE
	ANGLE VALVE
	3 WAY VALVE
	NEEDLE VALVE
	RELIEF VALVE
	PLUG OR COCK VALVE
	PRESSURE REGULATOR
	PRESSURE REDUCING VALVE
	BUTTERFLY

ABBREVIATIONS

ABV CLG	ABOVE CEILING
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
AD	ACCESS DOOR
BEL	BELOW
CLG	CEILING
CFH	CUBIC FEET PER HOUR
COTG/GCO	CLEAN OUT TO GRADE
CFH	CUBIC FEET PER HOUR
DN	DOWN OR DROP
(E)	EXISTING/ELECTRICAL
EXIST.	EXISTING
FCO	FLOOR CLEAN OUT
°F	DEGREES FAHRENHEIT
FLR	FLOOR
FT. HD.	FEET HEAD
GPM	GALLONS PER MINUTE
GA.	GAUGE
GI	GREASE INTERCEPTOR
GR	GRADE
HB	HOSE BIB
HP	HORSE POWER
IE	INVERT ELEVATION
IN. WC	INCHES WATER COLUMN
MH	MANHOLE
MBH	ONE THOUSAND BTU/HOUR
MPG	MEDIUM PRESSURE GAS
N/A	NOT APPLICABLE
(N)	NEW
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
N.I.C.	NOT IN CONTRACT
PD	PRESSURE DROP
POC	POINT OF CONNECTION
POD	POINT OF DISCONNECT
PRV	PRESSURE REDUCING VALVE
P/T RV	PRESS. & TEMP.RELIEF VALVE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS/SQUARE INCH GAUGE
REF.	REFERENCE
SOI	SAND OIL INTERCEPTOR
SQ. FT.	SQUARE FEET
TP	TRAP PRIMER
TYP.	TYPICAL
VTR	VENT THRU ROOF
WCO	WALL CLEAN OUT

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R&S Mechanical Consultant LLC
"Professional HVAC and Plumbing Designs"
1005 Oceanwood Avenue
N. Las Vegas, Nevada 89086
Tel: (702) 321-3953 Fax: (702) 982-6280

REVISIONS

ARCHITECT

kme ARCHITECTS ®

©KME Architects LLC. 2010
6765 WEST RUSSELL ROAD, SUITE 200
LAS VEGAS, NEVADA 89118
P: 702-888-2088 / F: 702-888-2089
WEB: www.kmearchitects.com

CONSULTANT

WESTSIDE SCHOOL HISTORIC REHABILITATION
330 W. WASHINGTON AVE.
LAS VEGAS, NEVADA 89106

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PLUMBING SPECIFICATION, LEGEND, SYMBOLS, AND ABBREVIATIONS

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MECHANICAL
No. 19437

CONSTRUCTION DOCUMENTS

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6535
FAX: (702) 382-3232
TDD: (702) 386-9108

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PLUMBING FIXTURE SCHEDULE

SPEC	FIXTURE	AREA SERVED	DRAIN	TRAP	VENT	CW	HW	FILTERED WATER	REMARKS
WC 1	WATER CLOSET HANDICAPPED	BLDG 1923 AND ANNEX BLDG 1948	4"	INT.	2"	1"	–	–	"AMERICAN STANDARD" OR EQUAL #3351.711, "AFWALL" 1.1 GPF, WALL–HUNG MOUNTED, ELONGATED BOWL (ELECTRONIC) FLUSH VALVE TOILET WITH VACUUM BREAKER, VITREOUS CHINA, DIRECT–FED SIPHON JET, FLUSH VALVE: SUPPLIED WITH SELECTRONIC EXPOSED AC FLUSH VALVE #6067.111.002, SEAT: AS #3351.001 (OR EQUAL) OPEN FRONT LESS COVER. WHEN INSTALLED, TOP OF SEAT IS 16½" TO 18" FROM THE FINISHED FLOOR. COMPLETE WITH COMPRESSION SHUT–OFF (STOPS) BRASS VALVE, SS BRAIDED FLEX. CONNECTORS, WITH ALL ACCESSORIES, CARRIER FITTING/WALL SUPPORT & COMPONENTS, ETC.. ELECTRICAL: 110V–1ø–60HZ, AC TRANSFORMER INCLUDED, OUTPUT VOLTAGE: 6 VDC. MOUNT: PER ADA REQUIREMENT, TOP OF SEAT 17"/19" ABOVE FLOOR
WC 2	WATER CLOSET	BLDG 1923 AND ANNEX BLDG 1948	4"	INT.	2"	1"	–	–	"AMERICAN STANDARD" OR EQUAL #3351.711, "AFWALL" 1.1 GPF, WALL MOUNTED, ELONGATED BOWL (ELECTRONIC) FLUSH VALVE TOILET WITH VACUUM BREAKER, VITREOUS CHINA, DIRECT–FED SIPHON JET, FLUSH VALVE: SUPPLIED WITH SELECTRONIC EXPOSED AC FLUSH VALVE #6067.111.002, SEAT: AS #3351.001 (OR EQUAL) OPEN FRONT LESS COVER. COMPLETE WITH COMPRESSION SHUT–OFF (STOPS) BRASS VALVE, SS BRAIDED FLEX. CONNECTORS, WITH ALL ACCESSORIES, CARRIER FITTING/WALL SUPPORT, COMPONENTS, ETC.. ELECTRICAL: 110V–1ø–60HZ, AC TRANSFORMER INCLUDED, OUTPUT VOLTAGE: 6 VDC MOUNT: STANDARD, TOP OF RIM/SEAT 15" ABOVE FLOOR
L 1	LAVATORY	BLDG 1923 AND ANNEX BLDG 1948	2"	2"	1 1/2"	1/2"	1/2"	–	"KOHLER" MDL #K–2883 OR EQUAL, "VERTICYL" UNDERCOUNTER MOUNT ADA LAVATORY, VITREOUS CHINA, WITH OVERFLOW, OFFSET GRID STRAINER, (TO MATCH FAUCET), NOMINAL DIMENSIONS: 13¾"ø"(BASIN) x 6¾"DEEP. FAUCET (COUNTERTOP MOUNT): AMERICAN STD OR EQUAL, INNSBROOK ELECTRONIC MODEL#6055.205, DECK MOUNT, INFRARED SENSOR, (BATTERY INCLUDED), 0.50 GPM SPRAY OUTLET. UNIT COMPLETE WITH MIXING VALVE #605XTMV OR EQUAL, AND SET OUTLET TEMPERATURE TO 110°F MAXIMUM, FITTINGS, BRASS VALVE STOPS, SS BRAIDED FLEX. CONN., ALL ACCESSORIES COMPONENTS, ETC., FINISH: WHITE. OPTIONAL: AC POWERED, 120V–1PH–60HZ, AS REQUIRED MOUNT: PER ADA REQUIREMENT, WITH HEAT WRAPPED INSULATION ("TRUERBO LAVGUARD OR EQUAL)
L 2	LAVATORY	ANNEX BLDG UNISEX TOILET	2"	2"	1 1/2"	1/2"	1/2"	–	"KOHLER" MDL# K–2883 OR EQUAL, "VERTICYL" UNDERMOUNT ADA LAVATORY, VITREOUS CHINA, WITH OVERFLOW, OFFSET GRID STRAINER, (TO MATCH FAUCET), NOMINAL DIMENSIONS: 13¾"ø(BASIN) x 6¾"DEEP. FAUCET (COUNTERTOP MOUNT): "SYMMONS" OR EQUAL SCOT #S–60–H–H, SUFFIX A, OR EQUAL, BLADE TYPE HANDLE, DECK MOUNT, 0.50 GPM SPRAY OUTLET. COMPLETE WITH MIXING VALVE (SET 104°F OR AS PER CODE), FITTINGS, COMPRESSION SHUT–OFF (STOPS) BRASS VALVE, STAINLESS STEEL BRAIDED FLEXIBLE CONNECTORS, WITH ALL ACCESSORIES, COMPONENTS FOR A COMPLETE INSTALLATION, ETC., FINISH: WHITE MOUNT: PER ADA REQUIREMENT, WITH HEAT WRAPPED INSULATION ("TRUERBO" LAVGUARD OR EQUAL)
UR 1 / UR 2	URINAL (HANDICAPPED)	BLDG 1923 AND ANNEX BLDG	2"	INT.	1 1/2"	¾" (FUTURE)	–	–	AMERICAN STANDARD OR EQUAL "FloWise FLUSH–FREE" 6150.100 WATERLESS URINAL, VITREOUS CHINA. ADA COMPLIANT: MOUNT TOP OF FRONT RIM AT 17" MAX. FROM FINISHED FLOOR (MOUNT PER ADA REQUIREMENT). NONE ADA: MOUNT 24" ABOVE FINISH FLOOR OR AS REQUIRED. UNIT COMPLETE WITH WALL HANGER, MOUNTING HARDWARE, ALL COMPONENTS, ETC.. FUTURE: ELECTRICAL: 110V–1ø–60HZ
MS 2	MOP SINK	BLDG 1923	3"	3"	2"	3/4"	3/4"	–	"AMERICAN STANDARD" #7692.008 "LAKEWELL" ACID RESISTANT ENAMELED CAST, FLOOR/WALL MOUNTED, RIM GUARD), FAUCET:#8340.076 WITH TRAP, VACUUM BREAKER AND HOSE END SPOUT MOUNT AT 42.25" A.F.F. OR EQUAL, 2.2 GPM MAX. FLOW PROVIDE NECESSARY AND MISCELLANEOUS COMPONENTS FOR A COMPLETE INSTALLATION
MS 3	MOP SINK	ANNEX BLDG 1948	3"	3"	2"	3/4"	3/4"	–	"AMERICAN STANDARD" #7745.811 "FLORWELL" ACID RESISTANT ENAMELED CAST, FLOOR MOUNTED, FAUCET: #8344.112, WITH VACUUM BREAKER AND HOSE END SPOUT MOUNT AT 48" A.F.F. OR EQUAL, 2.2 GPM MAX. FLOW RATE. PROVIDE NECESSARY AND MISCELLANEOUS COMPONENTS FOR A COMPLETE INSTALLATION. DIM.: 28"x28"x13"HIGH
TP 1	TRAP PRIMER	FD–1 OR FS–1	–	–	–	1/2"	–	–	"PRECISION PLUMBING PRODUCT" #P–2 COPPER BODY, ADJUSTABLE WITH 1/2" COPPER TYPE "L" TO RECEPTOR. FOR QUANTITY OF DISTRIBUTION UNITS, SEE FLOOR PLAN. NOTE: PROVIDE PANEL BOX WITH WALL ACCESS.
FD 1	FLOOR DRAIN	TOILETS	2" / 3"	INT. / INT.	1 1/2" / 2"	1/2"	–	–	J.R. SMITH FIG. 2010 SERIES, SIZE = 5" ROUND OR SQUARE, POLISHED BRONZE STRAINER (INCLUDES TRAP PRIMER CONNECTION), PROVIDE 'P' TRAP AS REQUIRED.
FD 2	FLOOR DRAIN – IINDIRECT WASTE RECEPTOR	GHP OUTDOOR UNIT – MECHANICAL AREA	2"	2"	1 1/2"	–	–	–	J.R. SMITH FIG. 3960 SERIES, CAST IRON/ OR GALVANIZED STEEL WASTE RECEPTOR WITH SOLID WATER DAM (2" HIGH MIN.), 7¾" ROUND DOME OPENING.
WHA 1	WATER HAMMER ARRESTOR	TOILETS	–	–	–	1" / 1 1/4"	–	–	"J.R. SMITH" SERIES 5000 HYDOTROL UNIT WITH METAL ACCESS PANEL/BOX
S 4	BAR SINK (OFFICE AREA)	OFFICE BREAK ROOM AREA	2"	2"	1 1/2"	1/2"	1/2"	–	1–COMPARTMENT SINK AND FAUCET OR EQUAL. "AMERICAN STANDARD" OR EQUAL, Mdl# 12SB.171700.073, STAINLESS STEEL 17"L x 17"WIDE X 8"DEEP. FAUCET: "SYMMONS" BAR SINK FAUCET SPB–3510 OR EQUAL, LEAD–FREE, POLISHED CHROME FINISH, FLOW RATE AT 0.50 GPM (AERATOR), LEVER HANDLE (ADA OPTION). PROVIDE NECESSARY QUARTER TURN ANGLE STOPS, STAINLESS STEEL FLEX SPEEDWAY (BRAIDED) SUPPLIES, AND MISCELLANEOUS COMPONENTS FOR A COMPLETE INSTALLATION. SET 104°F MAXIMUM OUTLET TEMPERATURE OR PER CODE, FIELD VERIFY
DF 1 / DF 2	DRINKING FOUNTAIN (ELECTRIC COOLER)	ANNEX BLDG 1948 & BLDG 1923	2"	1 1/2"	1 1/2"	1/2"	–	–	"HALSEY TAYLOR" OR EQUAL $OVL–II–SEREE OR EQUAL (ALL STAINLESS STEEL), ELECTRIC REFRIGERATED. PROVIDE BACK PANEL FOR ACCESS, BI–LEVEL ELECTRONIC EYE, AUTOMATIC REGULATOR, WITH INLET STRAINER, PROVIDE TRAP & FLEXIBLE RISER WITH SERVICE STOP AS REQUIRED. MOUNT/INSTALL UNIT PER MANUFACTURER' INSTALLATION RECOMMENDATION. MOUNT PER ADA REQUIREMENTS. ELECTRICAL: 120V–1PH–60HZ, 4.0 AMPS (370 WATTS). WEIGHT=140 LBS COLOR/FINISH: COORDINATE WITH CLIENT REPRESENTATIVE, OR PER ARCHITECT
HB 1	HOSE BIBB	ANNEX BLDG 1948, BLDG 1923, & GHP OUTDOOR UNIT	–	–	–	¾"	–	–	J.R. SMITH MODEL# 5509QT NON–FREEZE WALL HYDRANT, QUATERHORSE 1/4 TURN SERIES, HOSE CONNECTION & WITH INTEGRAL VACUUM BREAKER. WALL RECESSED BOX WITH LOCKING DOOR.

Electrical!
SEE RFI #022-006

SEE RFI #026-007
Electrical @ DF

SEE RFI #022-012

CALCULATIONS: BUILDING WATER DEMAND LOAD & DRAINAGE LOAD
BASED ON UPC 2009, APPENDIX "A" & CHAPTER 6 & 7

WATER AND DRAINAGE FIXTURE UNITS

TAG	QTY	FIXTURE DESCRIPTION	WSFU	TOTAL	DFU	TOTAL
WC-1	5	WATER CLOSET, 1.6 GPF-FV	5.00	25.00	4.00	20.00
WC-2	7	WATER CLOSET, 1.6 GPF-FV	5.00	35.00	4.00	28.00
UR-1, -2	3	URINAL, 1.0 GPF	4.00	12.00	2.00	6.00
L-1, L-2	11	LAVATORY	1.00	11.00	1.00	11.00
EWC-1, -2	2	DRINKING FOUNTAIN	1.00	2.00	1.00	2.00
MS-1 (F)	1	SERVICE SINK-FUTURE(F)	3.00	3.00	3.00	3.00
MS-2, -3	2	SERVICE SINK	3.00	6.00	3.00	6.00
S-1 (F)	1	SINK-FUTURE	2.00	2.00	2.00	2.00
S-2 (F)	1	SINK-FUTURE	2.00	2.00	2.00	2.00
S-3 (F)	1	SINK-3 COMP. - FUTURE	4.00	4.00	3.00	3.00
S-4	1	SINK (Office Area)	2.00	2.00	2.00	2.00
HS-1 (F)	2	HAND SINK-FUTURE	2.00	4.00	2.00	4.00
HB-1	1	HOSE BIBB	2.50	2.50	0.00	0.00
HB-1	2	HOSE BIBB	1.00	2.00	0.00	0.00
FD-1 (F)	1	FLOOR DRAIN - FUTURE	0.00	0.00	2.00	2.00
FD-1, -2	6	FLOOR DRAIN	0.00	0.00	2.00	12.00
FS-1 (F)	3	FLOOR SINK - FUTURE	0.00	0.00	2.00	6.00
(F) EST.	L/S	ANNEX BLDG-FUTURE(F), F.U.		32.00		28.00
(F) EST.	3	FOOD SER. COFFEE, REFRIG	1.00	3.00	0.00	0.00
TOTAL			**WSFU**	**147.50**	**DFU**	**137.00**
						use: 4"W
FROM CHART A-3 @			GPM	80.0		
OTHERS (DRINK DISPENSER, COFEE BREWER)						
	1	DISHWASHER-FUTURE	GPM	5.0		
MAX. POSSIBLE DEMAND			**GPM**	**85.0**		

PRESSURE AVAILABLE @ REGULATOR OUTLET	WATER STATIC PRESSURE AT SITE		65.0 PSI
	PER UPC 2009 PRESSURE REGULATOR REQUIRED		
	PRESSURE LOSS THRU 2" WATER METER	=	3.0 PSI
	PRESSURE LOSS THRU BACKFLOW PREVENTER	=	7.5 PSI
	EXISTING STRAINER	=	0.0 PSI
	FRICTION LOSS FROM STREET TO REGULATOR INLET:		
	LOSS ACROSS REGULATOR	=	PSI
	PRESSURE @ REGULATOR OUTLET	=	PSI
STATIC LOSS	BUILDING HEIGHT (TO HIGHEST OUTLET)	=	15 FT
	PRESSURE LOSS DUE TO BUILDING HEIGHT (@ 0.43 PSI/FT)	=	6.5 PSI
TOTAL LOSSES	BUILDING STATIC LOSS	=	6.5 PSI
	WATER SOFTENER	=	0.0 PSI
	WATER HEATER	=	0.0 PSI
	MIN. PRESSURE REQ'D @ FARTHEST FIXTURE	=	15.0 PSI
	Minimum Pressure for Flush Valve 15 psig		
	Minimum Pressure for Flush Tank 10 psig		
	TOTAL LOSSES (PLUS METER/PREVENTER)	=	32.0 PSI
TOTAL DEVELOPED LENGTH	METER TO BUILDING	=	393.00 FT
	BUILDING TO FARTHEST FIXTURE	=	345.00 FT
	TOTAL PIPE LENGTH (TPL)	=	738.00 FT
	TOTAL PIPE LENGTH PLUS VALVES & FITTINGS (TPLx1.10)	=	811.80 FT
PERMISSIBLE FRICTION LOSS	WATER PRESSURE AVAILABLE - ESTIMATED		65.0 PSI
	PRESSURE @ REGULATOR OUTLET	=	60.0 PSI
	TOTAL LOSSES	=	32.0 PSI
	PRESSURE DIFFERENCE	=	28.1 PSI
	MAX. PERMISSIBLE FRICTION LOSS PER 100 FT TDL	=	**3.5 PSI**

PIPE SIZE TABLE

SIZE	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	3"
GPM	1.5	3.8	8.0	14.5	22.5	50.0	150.0
FU (FT)	1.0	4.0	10.0	21.0	35.0	127.0	638.0
FU (FV)	-	-	-	-	6.0	48.0	559.0
V. FPS	2.2	2.7	3.5	3.7	4.3	5.0	6.2

REVISIONS

ARCHITECT
kme ARCHITECTS
©KME Architects LLC. 2010
6765 WEST RUSSELL ROAD, SUITE 200
LAS VEGAS, NEVADA 89118
P: 702-889-2088 / F: 702-889-2089
WEB: www.kmearchitects.com
CONSULTANT

WESTSIDE SCHOOL HISTORIC REHABILITATION
330 W. WASHINGTON AVE.
LAS VEGAS, NEVADA 89106
BID NUMBER: 12.43221-TF
CLV PLANS LIBRARY NUMBER: 715-175-1
PLUMBING SCHEDULES

STAMP
PROFESSIONAL ENGINEER STATE OF NEVADA
ROMULO J. ESPINO
Exp. 12-31-14
MECHANICAL
No. 14447

CONSTRUCTION DOCUMENTS

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6535
FAX: (702) 382-3232
TDD: (702) 386-9108

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R&S Mechanical Consultant LLC
"Professional HVAC and Plumbing Designs"
1005 Cottonwood Avenue
N. Las Vegas, Nevada 89030
Tel: (702) 321-9555 Fax: (702) 982-6295

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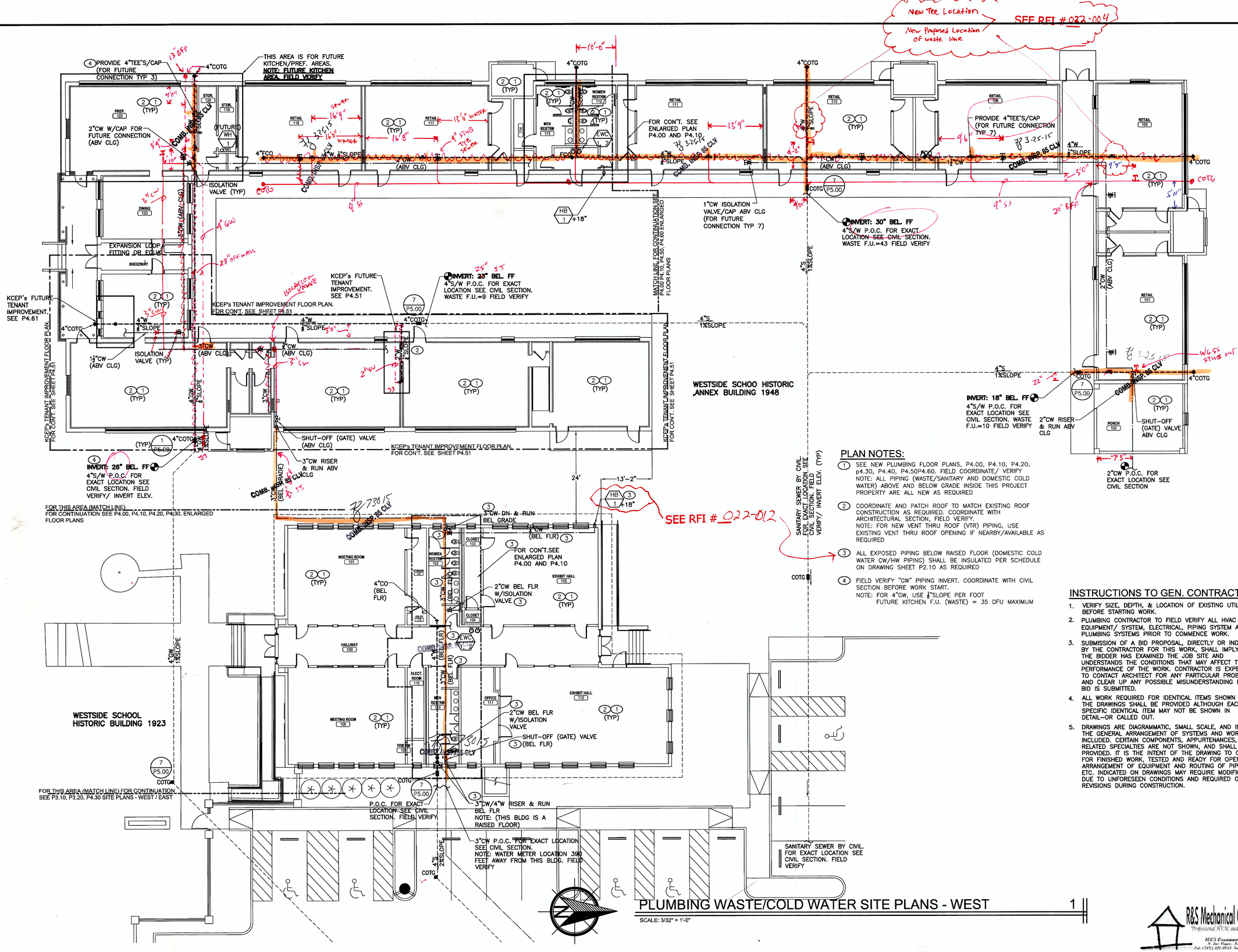

PLAN NOTES:

1. SEE NEW PLUMBING FLOOR PLANS, P4.00, P4.10, P4.20, p4.30, P4.40, P4.50P4.60. FIELD COORDINATE/ VERIFY NOTE: ALL PIPING (WASTE/SANITARY AND DOMESTIC COLD WATER) ABOVE AND BELOW GRADE INSIDE THIS PROJECT PROPERTY ARE ALL NEW AS REQUIRED
2. COORDINATE AND PATCH ROOF TO MATCH EXISTING ROOF CONSTRUCTION AS REQUIRED. COORDINATE WITH ARCHITECTURAL SECTION, FIELD VERIFY. NOTE: FOR NEW VENT THRU ROOF (VTR) PIPING, USE EXISTING VENT THRU ROOF OPENING IF NEARBY/AVAILABLE AS REQUIRED
3. ALL EXPOSED PIPING BELOW RAISED FLOOR (DOMESTIC COLD WATER CW/HW PIPING) SHALL BE INSULATED PER SCHEDULE ON DRAWING SHEET P2.10 AS REQUIRED
4. FIELD VERIFY "GW" PIPING INVERT. COORDINATE WITH CIVIL SECTION BEFORE WORK START. NOTE: FOR 4"GW, USE ¼"SLOPE PER FOOT FUTURE KITCHEN F.U. (WASTE) = 35 DFU MAXIMUM

INSTRUCTIONS TO GEN. CONTRACTOR:

1. VERIFY SIZE, DEPTH, & LOCATION OF EXISTING UTILITIES BEFORE STARTING WORK.
2. PLUMBING CONTRACTOR TO FIELD VERIFY ALL HVAC EQUIPMENT/ SYSTEM, ELECTRICAL, PIPING SYSTEM AND PLUMBING SYSTEMS PRIOR TO COMMENCE WORK.
3. SUBMISSION OF A BID PROPOSAL, DIRECTLY OR INDIRECTLY BY THE CONTRACTOR FOR THIS WORK, SHALL IMPLY THAT THE BIDDER HAS EXAMINED THE JOB SITE AND UNDERSTANDS THE CONDITIONS THAT MAY AFFECT THE PERFORMANCE OF THE WORK. CONTRACTOR IS EXPECTED TO CONTACT ARCHITECT FOR ANY PARTICULAR PROBLEMS AND CLEAR UP ANY POSSIBLE MISUNDERSTANDING BEFORE BID IS SUBMITTED.
4. ALL WORK REQUIRED FOR IDENTICAL ITEMS SHOWN ON THE DRAWINGS SHALL BE PROVIDED ALTHOUGH EACH SPECIFIC IDENTICAL ITEM MAY NOT BE SHOWN IN DETAIL-OR CALLED OUT.
5. DRAWINGS ARE DIAGRAMMATIC, SMALL SCALE, AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED. CERTAIN COMPONENTS, APPURTENANCES, AND RELATED SPECIALTIES ARE NOT SHOWN, AND SHALL BE PROVIDED. IT IS THE INTENT OF THE DRAWING TO CALL FOR FINISHED WORK, TESTED AND READY FOR OPERATION. ARRANGEMENT OF EQUIPMENT AND ROUTING OF PIPES AND ETC. INDICATED ON DRAWINGS MAY REQUIRE MODIFICATION DUE TO UNFORESEEN CONDITIONS AND REQUIRED ON SITE REVISIONS DURING CONSTRUCTION.

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CONSULTANT

WESTSIDE SCHOOL HISTORIC REHABILITATION
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BID NUMBER: 12.43221-TF

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PLUMBING WASTE/ COLD WATER SITE PLANS - WEST

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ROMULO J. ESPINO
Exp. 12-31-14
MECHANICAL
No. 19437

CONSTRUCTION DOCUMENTS

OWNER: CITY OF LAS VEGAS
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400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
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FAX: (702) 382-3232
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FILE 2012-007
DATE 08-11-2014
SCALE AS SHOWN
BID NO
CLV DWG NO
SHT NO

P3.10

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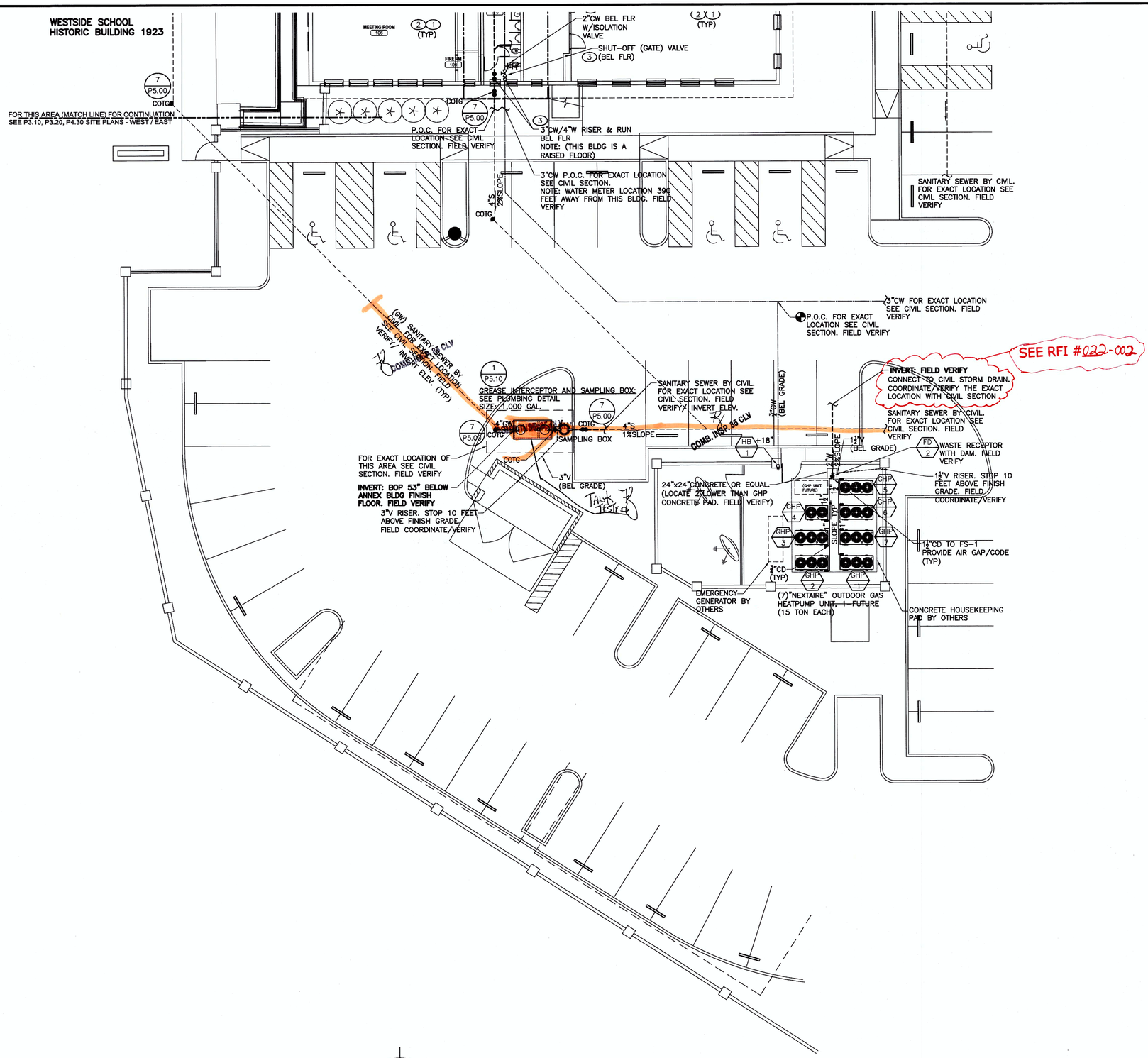
Tel: (702) 321-3953 Fax: (702) 982-6250



INSTRUCTIONS TO GEN. CONTRACTOR:

1. VERIFY SIZE, DEPTH, & LOCATION OF EXISTING UTILITIES BEFORE STARTING WORK.
2. PLUMBING CONTRACTOR TO FIELD VERIFY ALL HVAC EQUIPMENT/ SYSTEM, ELECTRICAL, PIPING SYSTEM AND PLUMBING SYSTEMS PRIOR TO COMMENCE WORK.
3. SUBMISSION OF A BID PROPOSAL, DIRECTLY OR INDIRECTLY BY THE CONTRACTOR FOR THIS WORK, SHALL IMPLY THAT THE BIDDER HAS EXAMINED THE JOB SITE AND UNDERSTANDS THE CONDITIONS THAT MAY AFFECT THE PERFORMANCE OF THE WORK. CONTRACTOR IS EXPECTED TO CONTACT ARCHITECT FOR ANY PARTICULAR PROBLEMS AND CLEAR UP ANY POSSIBLE MISUNDERSTANDING BEFORE BID IS SUBMITTED.
4. ALL WORK REQUIRED FOR IDENTICAL ITEMS SHOWN ON THE DRAWINGS SHALL BE PROVIDED ALTHOUGH EACH SPECIFIC IDENTICAL ITEM MAY NOT BE SHOWN IN DETAIL—OR CALLED OUT.
5. DRAWINGS ARE DIAGRAMMATIC, SMALL SCALE, AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED. CERTAIN COMPONENTS, APPURTENANCES, AND RELATED SPECIALTIES ARE NOT SHOWN, AND SHALL BE PROVIDED. IT IS THE INTENT OF THE DRAWING TO CALL FOR FINISHED WORK, TESTED AND READY FOR OPERATION. ARRANGEMENT OF EQUIPMENT AND ROUTING OF PIPES AND ETC. INDICATED ON DRAWINGS MAY REQUIRE MODIFICATION DUE TO UNFORESEEN CONDITIONS AND REQUIRED ON SITE REVISIONS DURING CONSTRUCTION.

PLUMBING WASTE/COLD WATER SITE PLAN - EAST 1

SCALE: 3/32" = 1'-0"

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Professional HVAC and Plumbing Designs
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N. Las Vegas, Nevada 89030
Tel: (702) 321-3955 Fax: (702) 952-6250

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PLUMBING WASTE/ COLD WATER SITE PLAN - EAST

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MECHANICAL
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CONSTRUCTION DOCUMENTS

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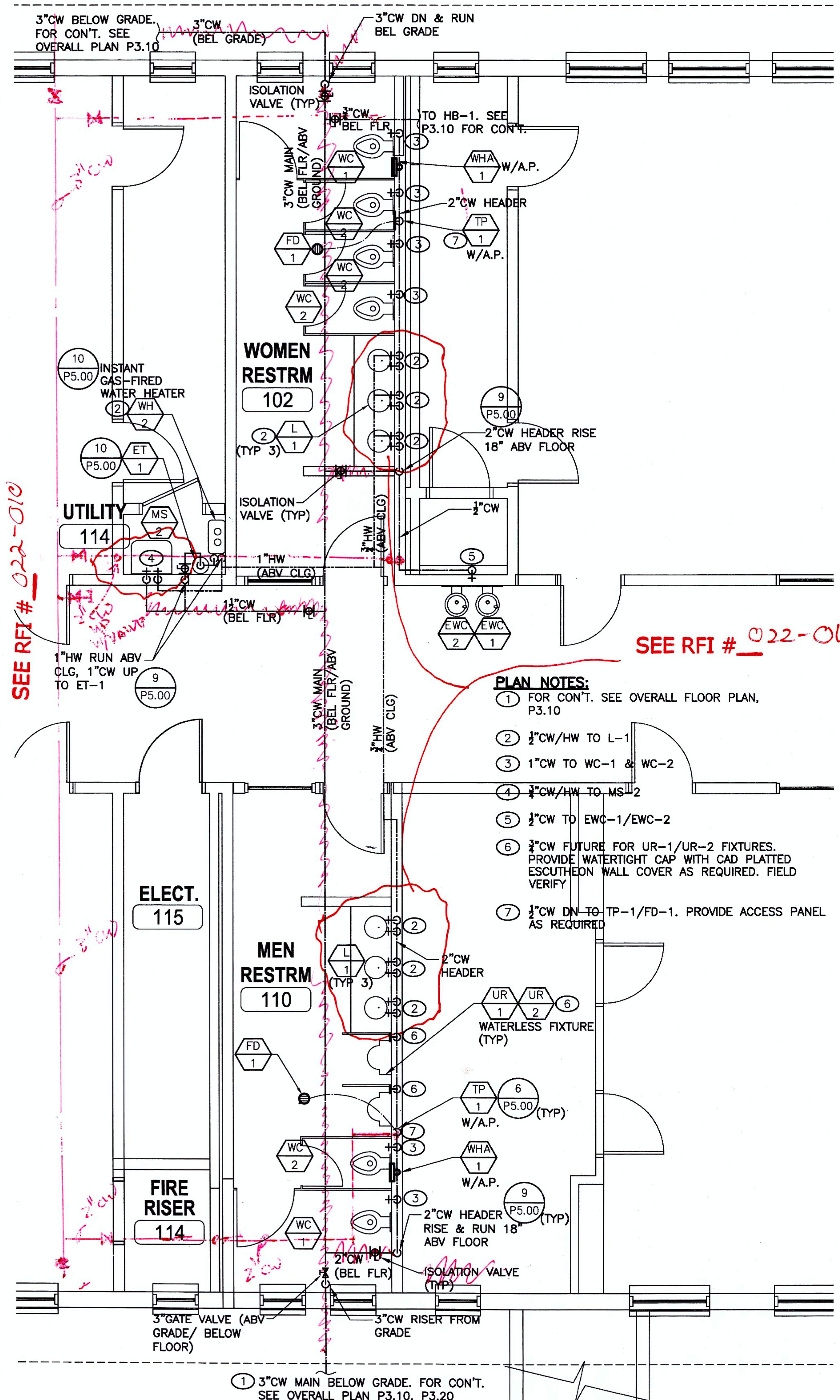


PLAN NOTES:

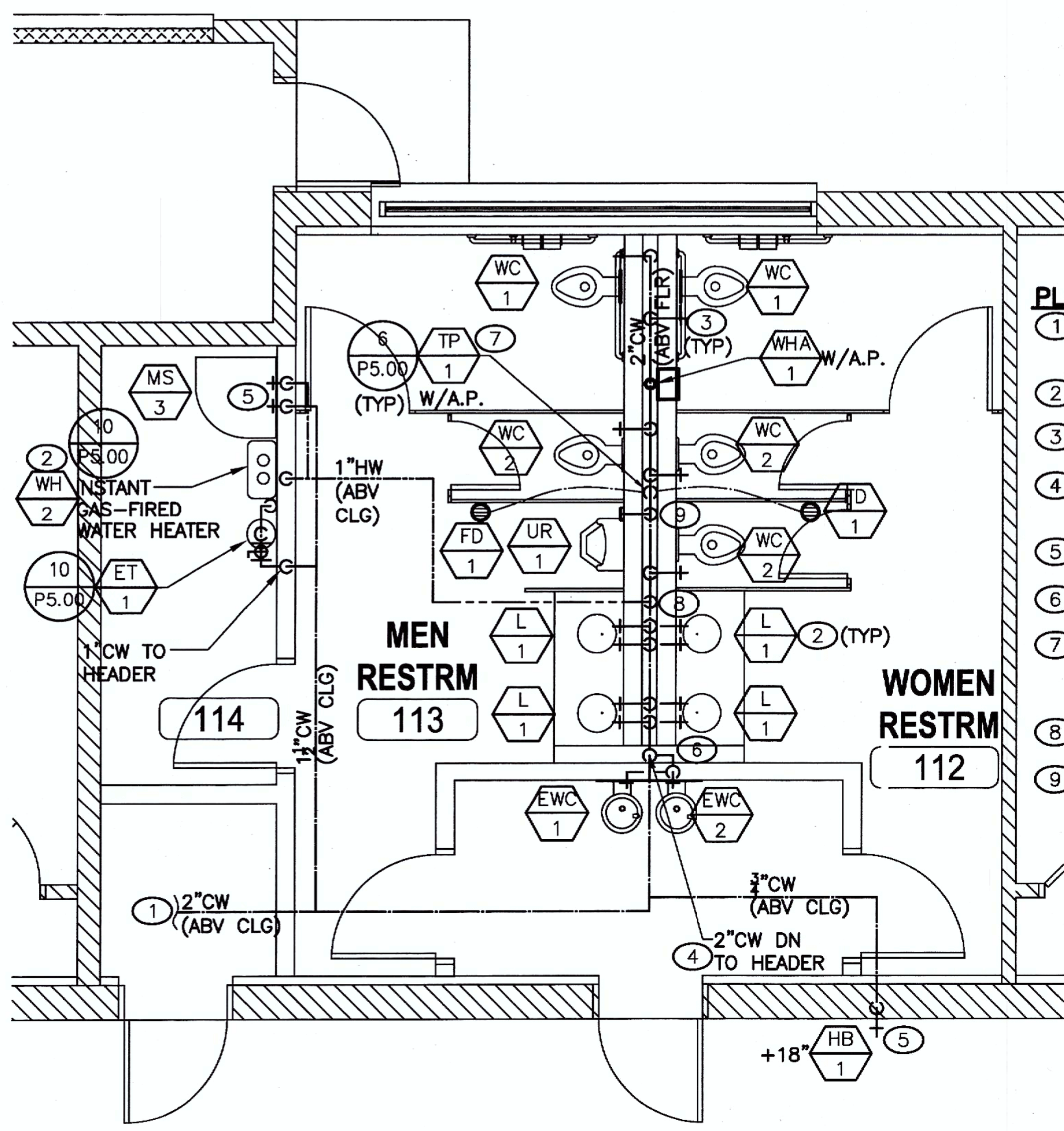
1. FOR CON'T. SEE OVERALL FLOOR PLAN, P3.10
2. 1/2"CW/HW TO L-1
3. 1"CW TO WC-1 & WC-2
4. 3/4"CW/HW TO MS-2
5. 1/2"CW TO EWC-1/EWC-2
6. 3/4"CW FUTURE FOR UR-1/UR-2 FIXTURES. PROVIDE WATERTIGHT CAP WITH CAD PLATTED ESCUTHEON WALL COVER AS REQUIRED. FIELD VERIFY
7. 1/2"CW DN TO TP-1/FD-1. PROVIDE ACCESS PANEL AS REQUIRED

① CW-HW FLOOR PLAN - 1923 BLDG 1

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

NOTICE:

1. FOR OUTDOOR/EXPOSED PIPING (COLD/HOT WATER) INSULATION SEE DRAWING P2.10 AND P3.10



PLAN NOTES:

1. FOR CON'T. SEE OVERALL FLOOR PLAN, P3.10
2. 1/2"CW/ HW TO L-1
3. 1"CW TO WC-1 & WC-2
4. RUN 2"CW HEADER 18" +/- ABOVE FLOOR
5. 3/4"CW TO HB-1
6. 1/2"CW TO EWC-1/EWC-2
7. 1/2"CW TO TP--1/FD-1. PROVIDE ACCESS PANEL AS REQUIRED. FIELD VERIFY
8. 1"HW DN TO HEADER
9. 3/4"CW (FUTURE) FOR UR-1 FIXTURE. PROVIDE WATER TIGHT CAP W/CAD PLATTED ESCUTHEON WALL COVER AS REQUIRED. FIELD VERIFY

CW-HW FLOOR PLAN - ANNEX BLDG 3

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

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1005 Oceanwood Avenue
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Tel: (702) 321-3953 Fax: (702) 982-6280

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PLUMBING ENLARGED COLD AND HOT WATER FLOOR PLANS

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FAX: (702) 382-3232
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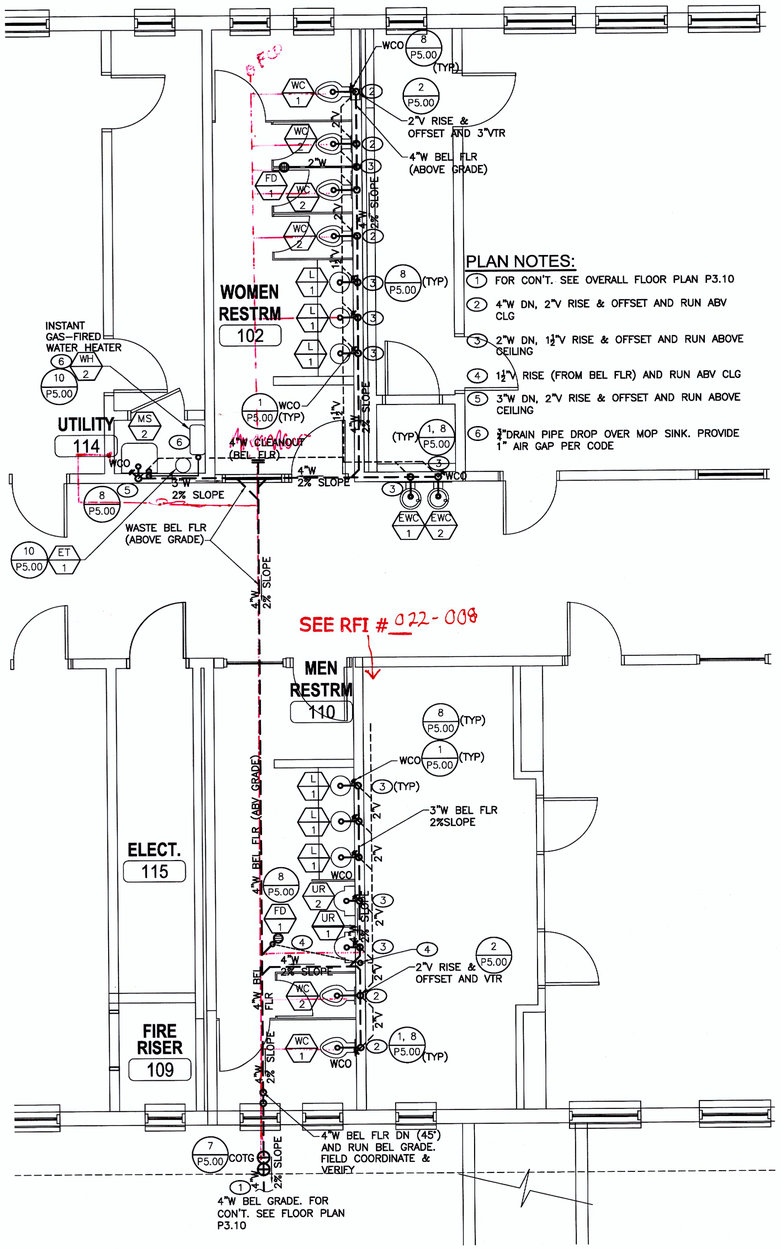


① WASTE-VENT FLOOR PLAN - 1923 BLDG 1

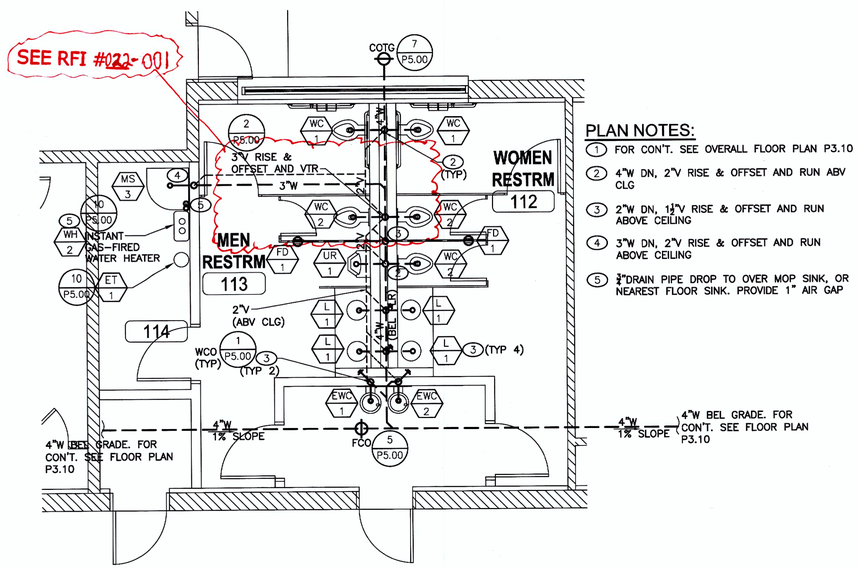
SCALE: 1/4" = 1'-0"

PLAN NOTES:

1. FOR CON'T. SEE OVERALL FLOOR PLAN P3.10
2. 4"W DN, 2"V RISE & OFFSET AND RUN ABV CLG
3. 2"W DN, 1½"V RISE & OFFSET AND RUN ABOVE CEILING
4. 1½"V RISE (FROM BEL FLR) AND RUN ABV CLG
5. 3"W DN, 2"V RISE & OFFSET AND RUN ABOVE CEILING
6. 3"DRAIN PIPE DROP OVER MOP SINK. PROVIDE 1" AIR GAP PER CODE

NOTICE:

① FOR OUTDOOR/EXPOSED PIPING (COLD/HOT WATER) INSULATION SEE DRAWING P2.10 AND P3.10



WASTE-VENT FLOOR PLAN - ANNEX BLDG 3

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

PLAN NOTES:

1. FOR CON'T. SEE OVERALL FLOOR PLAN P3.10
2. 4"W DN, 2"V RISE & OFFSET AND RUN ABV CLG
3. 2"W DN, 1½"V RISE & OFFSET AND RUN ABOVE CEILING
4. 3"W DN, 2"V RISE & OFFSET AND RUN ABOVE CEILING
5. 3"DRAIN PIPE DROP TO OVER MOP SINK, OR NEAREST FLOOR SINK. PROVIDE 1" AIR GAP

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CLV PLANS LIBRARY NUMBER: 715-175-1

PLUMBING ENLARGED WASTE AND VENT FLOOR PLANS

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MECHANICAL
No. 10447

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DATE 08-11-2014

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SHT NO **P4.10**

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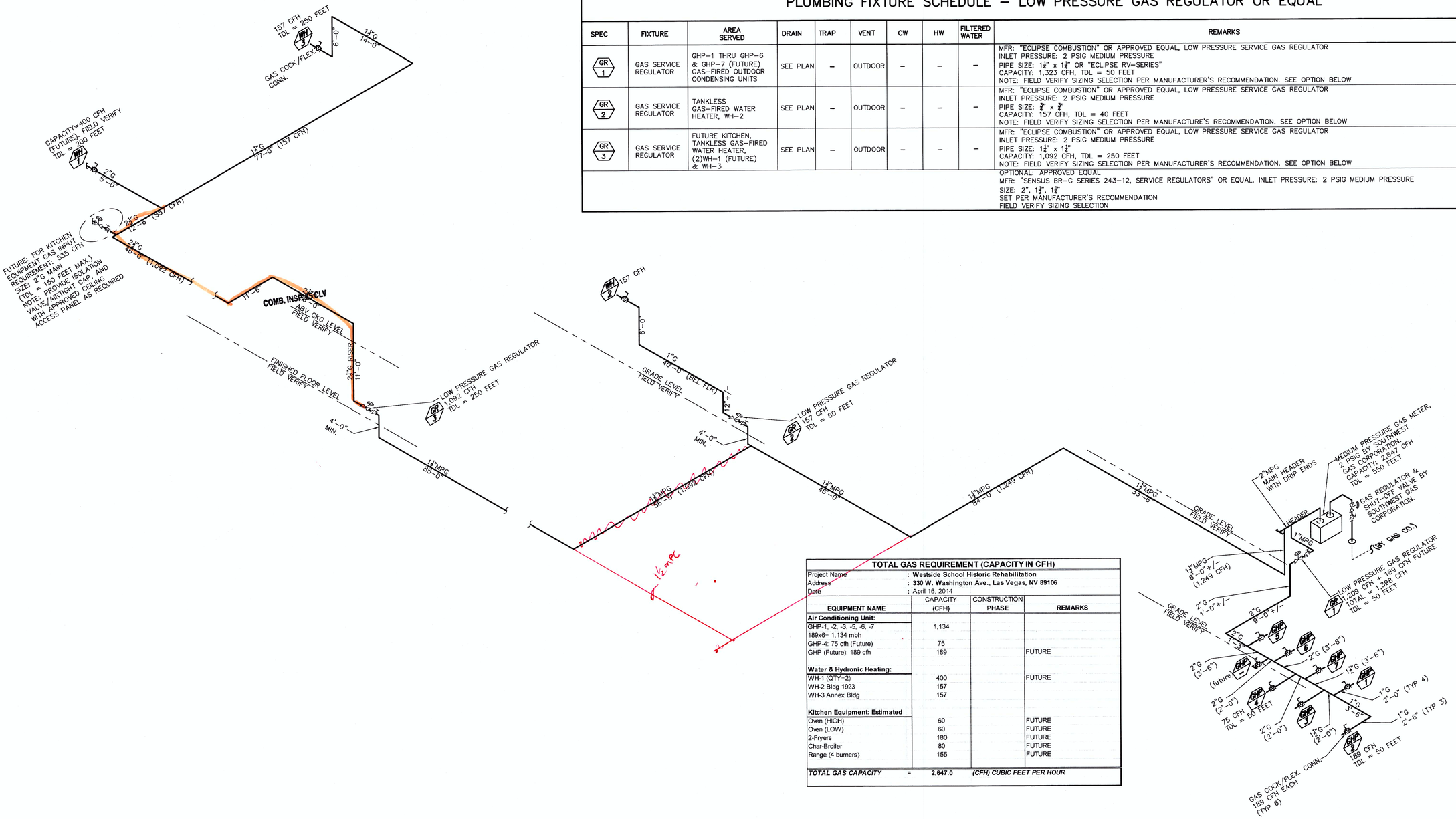
PLUMBING FIXTURE SCHEDULE – LOW PRESSURE GAS REGULATOR OR EQUAL

SPEC	FIXTURE	AREA SERVED	DRAIN	TRAP	VENT	CW	HW	FILTERED WATER	REMARKS
GR 1	GAS SERVICE REGULATOR	GHP–1 THRU GHP–6 & GHP–7 (FUTURE) GAS–FIRED OUTDOOR CONDENSING UNITS	SEE PLAN	–	OUTDOOR	–	–	–	MFR: "ECLIPSE COMBUSTION" OR APPROVED EQUAL, LOW PRESSURE SERVICE GAS REGULATOR INLET PRESSURE: 2 PSIG MEDIUM PRESSURE PIPE SIZE: 1¼" x 1¼" OR "ECLIPSE RV–SERIES" CAPACITY: 1,323 CFH, TDL = 50 FEET NOTE: FIELD VERIFY SIZING SELECTION PER MANUFACTURER'S RECOMMENDATION. SEE OPTION BELOW
GR 2	GAS SERVICE REGULATOR	TANKLESS GAS–FIRED WATER HEATER, WH–2	SEE PLAN	–	OUTDOOR	–	–	–	MFR: "ECLIPSE COMBUSTION" OR APPROVED EQUAL, LOW PRESSURE SERVICE GAS REGULATOR INLET PRESSURE: 2 PSIG MEDIUM PRESSURE PIPE SIZE: ¾" x ¾" CAPACITY: 157 CFH, TDL = 40 FEET NOTE: FIELD VERIFY SIZING SELECTION PER MANUFACTURE'S RECOMMENDATION. SEE OPTION BELOW
GR 3	GAS SERVICE REGULATOR	FUTURE KITCHEN, TANKLESS GAS–FIRED WATER HEATER, (2)WH–1 (FUTURE) & WH–3	SEE PLAN	–	OUTDOOR	–	–	–	MFR: "ECLIPSE COMBUSTION" OR APPROVED EQUAL, LOW PRESSURE SERVICE GAS REGULATOR INLET PRESSURE: 2 PSIG MEDIUM PRESSURE PIPE SIZE: 1½" x 1½" CAPACITY: 1,092 CFH, TDL = 250 FEET NOTE: FIELD VERIFY SIZING SELECTION PER MANUFACTURER'S RECOMMENDATION. SEE OPTION BELOW
									OPTIONAL: APPROVED EQUAL MFR: "SENSUS BR–G SERIES 243–12, SERVICE REGULATORS" OR EQUAL. INLET PRESSURE: 2 PSIG MEDIUM PRESSURE SIZE: 2", 1½", 1¼" SET PER MANUFACTURER'S RECOMMENDATION FIELD VERIFY SIZING SELECTION



TOTAL GAS REQUIREMENT (CAPACITY IN CFH)

Project Name	: Westside School Historic Rehabilitation		
Address	: 330 W. Washington Ave., Las Vegas, NV 89106		
Date	: April 16, 2014		
EQUIPMENT NAME	CAPACITY (CFH)	CONSTRUCTION PHASE	REMARKS
Air Conditioning Unit:			
GHP-1, -2, -3, -5, -6, -7 189x6= 1,134 mbh	1,134		
GHP-4: 75 cfh (Future)	75		
GHP (Future): 189 cfh	189		FUTURE
Water & Hydronic Heating:			
WH-1 (QTY=2)	400		FUTURE
WH-2 Bldg 1923	157		
WH-3 Annex Bldg	157		
Kitchen Equipment: Estimated			
Oven (HIGH)	60		FUTURE
Oven (LOW)	60		FUTURE
2-Fryers	180		FUTURE
Char-Broiler	80		FUTURE
Range (4 burners)	155		FUTURE
TOTAL GAS CAPACITY	**= 2,647.0**	***(CFH) CUBIC FEET PER HOUR***	

GAS PIPING ISOMETRIC (1 / –)

NO SCALE

R&S Mechanical Consultant LLC
"Professional HVAC and Plumbing Designs"
1005 Evanswood Avenue
N. Las Vegas, Nevada 89086
Tel. (702) 321-3953 Fax. (702) 952-6256

REVISIONS

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PLUMBING GAS PIPING ISOMETRIC AND GAS REGULATOR SCHEDULE

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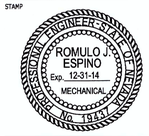

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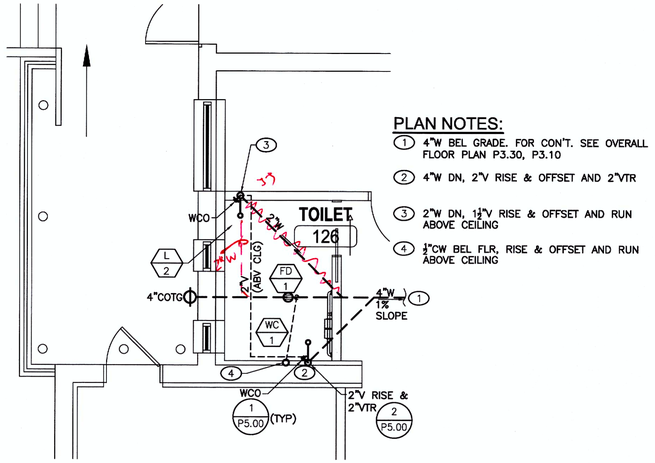


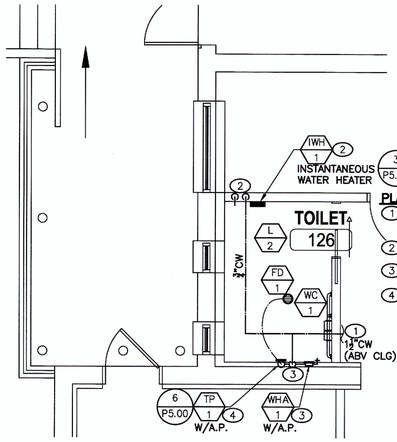
PLAN NOTES:

1. 4"W BEL GRADE. FOR CON'T. SEE OVERALL FLOOR PLAN P3.30, P3.10
2. 4"W DN, 2"V RISE & OFFSET AND 2"VTR
3. 2"W DN, 1½"V RISE & OFFSET AND RUN ABOVE CEILING
4. ½"CW BEL FLR, RISE & OFFSET AND RUN ABOVE CEILING

KCEP's TENANT IMPROVEMENT

WASTE-VENT FLOOR PLAN - ANNEX BLDG 2

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



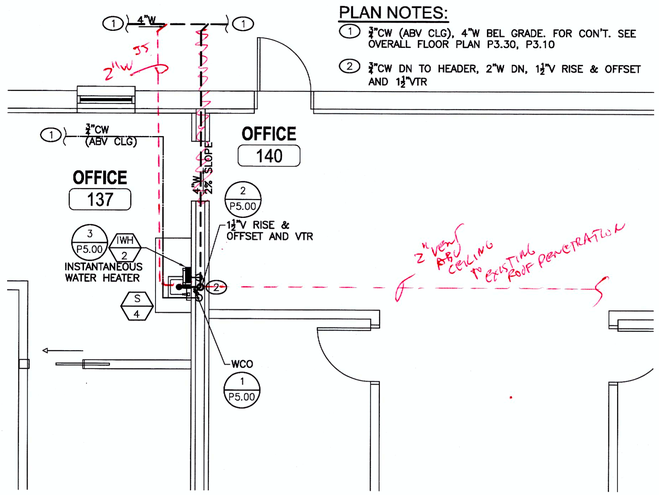
PLAN NOTES:

1. FOR CON'T. SEE OVERALL FLOOR PLAN P3.30, P3.10
2. ½"CW/ HW TO L-2
3. 1"CW TO WC-1 W/WHA-1
4. ½"CW DN TO TP-1/FD-1. PROVIDE ACCESS PANEL AS REQUIRED

KCEP's TENANT IMPROVEMENT

CW-HW FLOOR PLAN - ANNEX BLDG 1

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



PLAN NOTES:

1. ¾"CW (ABV CLG), 4"W BEL GRADE. FOR CON'T. SEE OVERALL FLOOR PLAN P3.30, P3.10
2. ¾"CW DN TO HEADER, 2"W DN, 1½"V RISE & OFFSET AND 1½"VTR

KCEP's TENANT IMPROVEMENT

COLD/ HOT WATER and WASTE-VENT FLOOR PLAN - ANNEX BLDG 3

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

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Tel: (702) 321-3953 Fax: (702) 952-6280

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PLUMBING KCEP's TENANT TENANT IMPROVEMENT ENLARGED COLD AND HOT WATER, DRAIN AND WASTE AND VENT FLOOR PLANS

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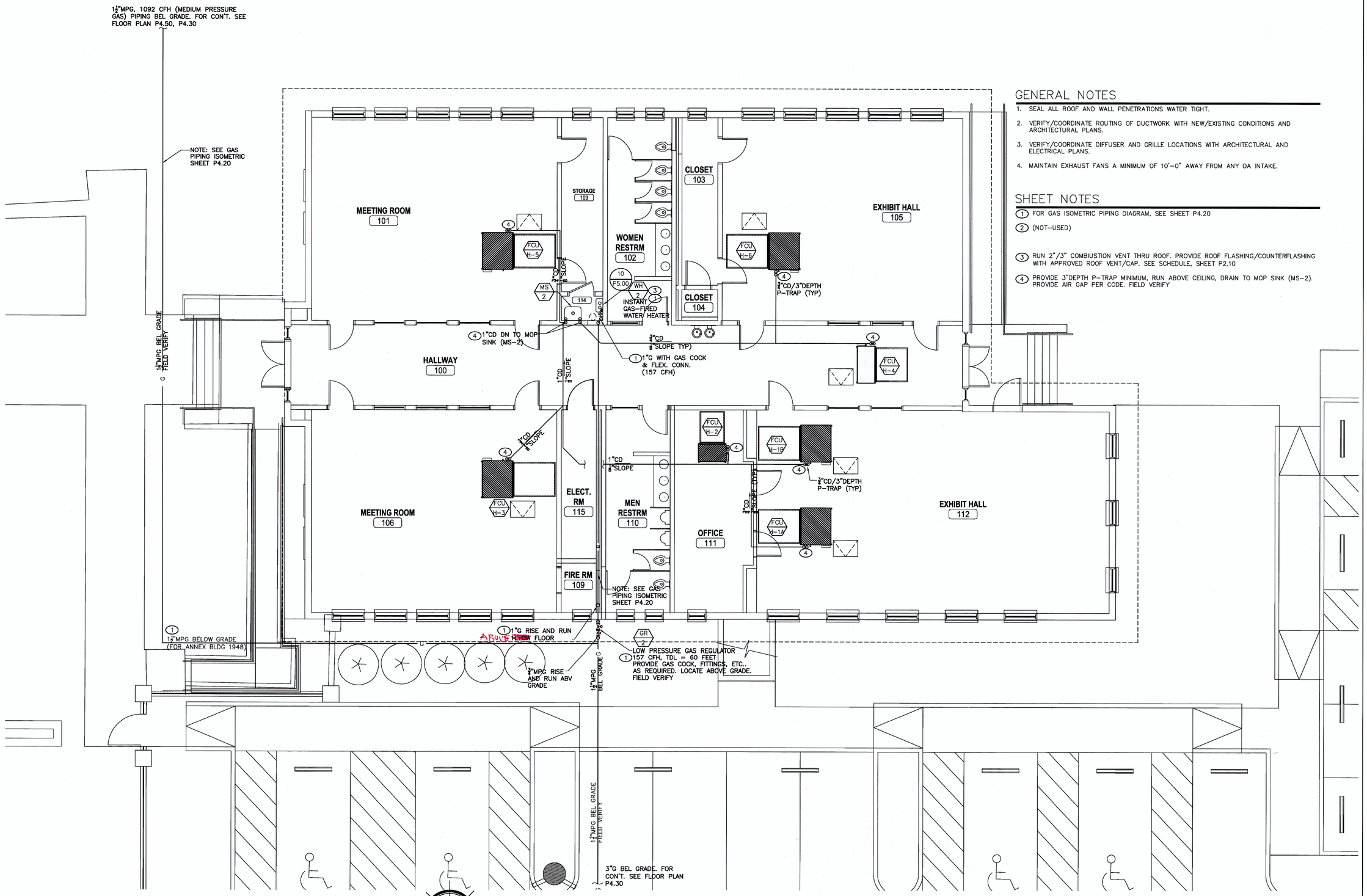

GENERAL NOTES

1. SEAL ALL ROOF AND WALL PENETRATIONS WATER TIGHT.
2. VERIFY/COORDINATE ROUTING OF DUCTWORK WITH NEW/EXISTING CONDITIONS AND ARCHITECTURAL PLANS.
3. VERIFY/COORDINATE DIFFUSER AND GRILLE LOCATIONS WITH ARCHITECTURAL AND ELECTRICAL PLANS.
4. MAINTAIN EXHAUST FANS A MINIMUM OF 10'-0" AWAY FROM ANY OA INTAKE.

SHEET NOTES

1. FOR GAS ISOMETRIC PIPING DIAGRAM, SEE SHEET P4.20
2. (NOT-USED)
3. RUN 2"/3" COMBIUSTION VENT THRU ROOF. PROVIDE ROOF FLASHING/COUNTERFLASHING WITH APPROVED ROOF VENT/CAP. SEE SCHEDULE, SHEET P2.10
4. PROVIDE 3"DEPTH P-TRAP MINIMUM, RUN ABOVE CEILING, DRAIN TO MOP SINK (MS-2). PROVIDE AIR GAP PER CODE. FIELD VERIFY

PLUMBING CONDENSATE DRAIN AND GAS PIPING FLOOR PLAN - HISTIRIC BUILDING 1923 1

SCALE: 3/16" = 1'-0"

R&S Mechanical Consultant LLC
"Professional HVAC and Plumbing Designs"
1005 Cocamwood Avenue
N. Las Vegas, Nevada 89030
Tel: (702) 321-3953 Fax: (702) 952-6250

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WESTSIDE SCHOOL HISTORIC REHABILITATION

330 W. WASHINGTON AVE.
LAS VEGAS, NEVADA 89106

BID NUMBER: 12.43221-TF

CLV PLANS LIBRARY NUMBER: 715-175-1

PLUMBING CONDENSATE DRAIN/ AND GAS PIPING FLOOR PLAN
WESTSIDE SCHOOL HISTORIC BUILDING 1923

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FAX: (702) 382-3232
TDD: (702) 386-9108

DRAWN	
FILE	2012-007
DATE	08-11-2014
SCALE	AS SHOWN
BID NO	
CLV DWG NO	
SHT NO	P4.40

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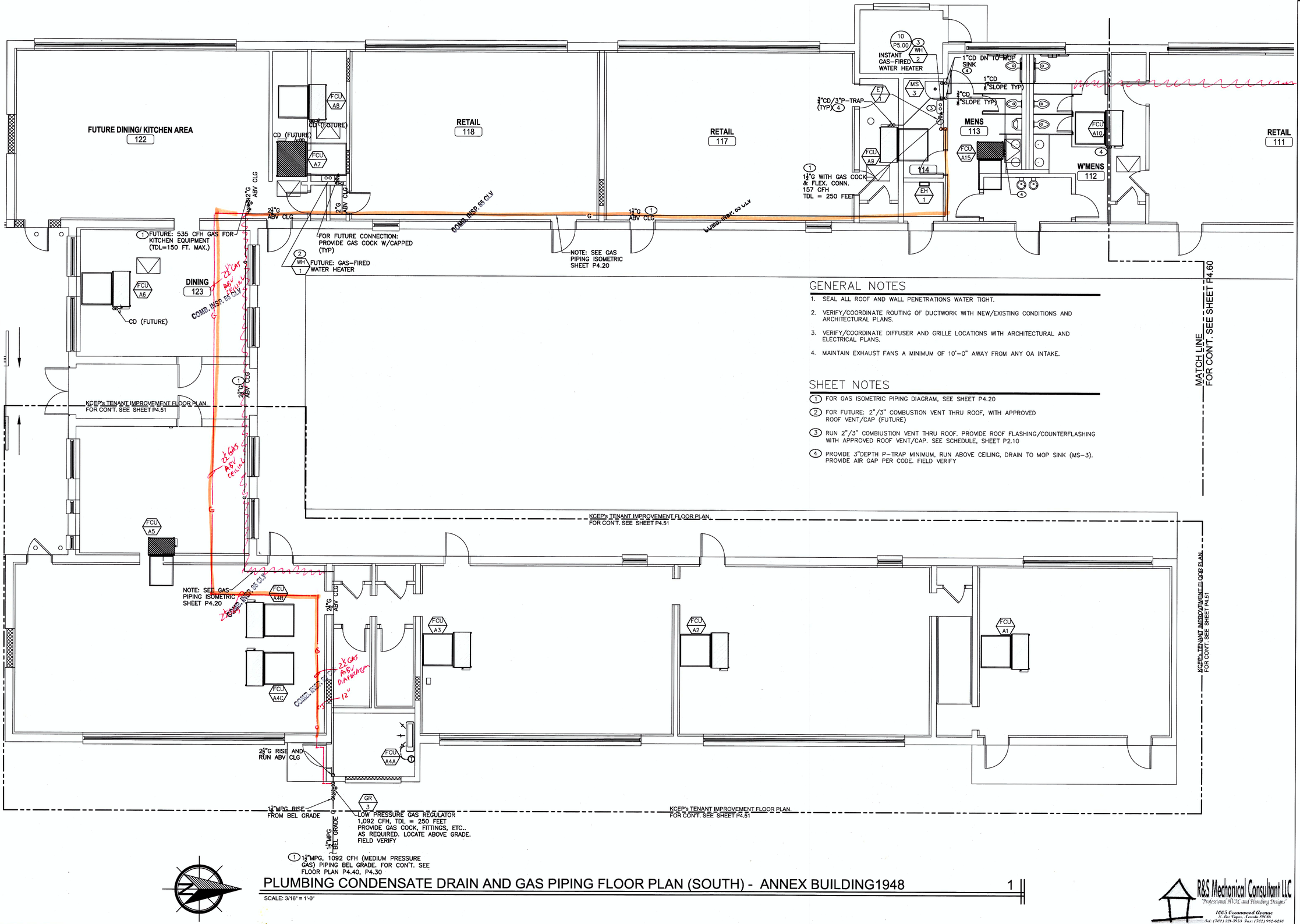

GENERAL NOTES

1. SEAL ALL ROOF AND WALL PENETRATIONS WATER TIGHT.
2. VERIFY/COORDINATE ROUTING OF DUCTWORK WITH NEW/EXISTING CONDITIONS AND ARCHITECTURAL PLANS.
3. VERIFY/COORDINATE DIFFUSER AND GRILLE LOCATIONS WITH ARCHITECTURAL AND ELECTRICAL PLANS.
4. MAINTAIN EXHAUST FANS A MINIMUM OF 10'-0" AWAY FROM ANY OA INTAKE.

SHEET NOTES

1. FOR GAS ISOMETRIC PIPING DIAGRAM, SEE SHEET P4.20
2. FOR FUTURE: 2"/3" COMBUSTION VENT THRU ROOF, WITH APPROVED ROOF VENT/CAP (FUTURE)
3. RUN 2"/3" COMBIUSTION VENT THRU ROOF. PROVIDE ROOF FLASHING/COUNTERFLASHING WITH APPROVED ROOF VENT/CAP. SEE SCHEDULE, SHEET P2.10
4. PROVIDE 3"DEPTH P-TRAP MINIMUM, RUN ABOVE CEILING, DRAIN TO MOP SINK (MS-3). PROVIDE AIR GAP PER CODE. FIELD VERIFY

PLUMBING CONDENSATE DRAIN AND GAS PIPING FLOOR PLAN (SOUTH) - ANNEX BUILDING1948

SCALE: 3/16" = 1'-0"

1

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"Professional HVAC and Plumbing Designs"
1005 Oceanwood Avenue
N. Las Vegas, Nevada 89086
Tel: (702) 321-3953 Fax: (702) 982-6280

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PLUMBING CONDENSATE DRAIN AND GAS PIPING FLOOR PLAN (SOUTH)
ANNEX BUILDING 1948

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PROFESSIONAL ENGINEER - STATE OF NEVADA
ROMULO J. ESPINO
Exp. 12-31-14
MECHANICAL
No. 19447

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DEPARTMENT OF PUBLIC WORKS

400 EAST STEWART AVENUE
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FAX: (702) 382-3232
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FILE 2012-007

DATE 08-11-2014

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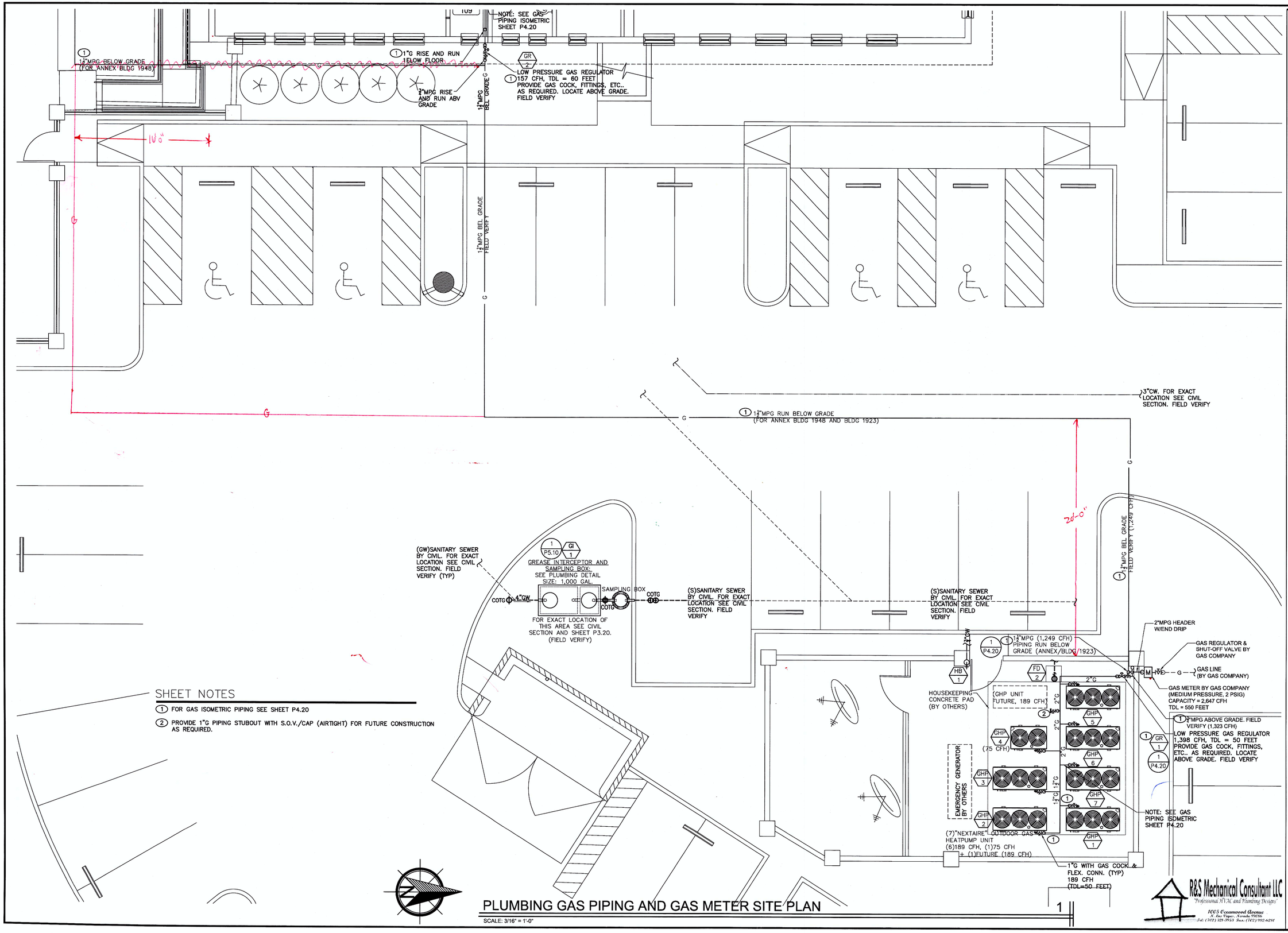

SHEET NOTES

1. FOR GAS ISOMETRIC PIPING SEE SHEET P4.20
2. PROVIDE 1"G PIPING STUBOUT WITH S.O.V./CAP (AIRTIGHT) FOR FUTURE CONSTRUCTION AS REQUIRED.

PLUMBING GAS PIPING AND GAS METER SITE PLAN

SCALE: 3/16" = 1'-0"

1

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"Professional HVAC and Plumbing Designs"
1005 Oceanwood Avenue
N. Las Vegas, Nevada 89086
Tel: (702) 328-3933 Fax: (702) 952-6295

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PLUMBING GAS PIPING AND GAS METER SITE PLAN

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ROMULO J. ESPINO
Exp. 12-31-14
MECHANICAL
No. 19447

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OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6535
FAX: (702) 382-3232
TDD: (702) 386-9108

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DATE	08-11-2014
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CLV DWG NO	715-175-1
SHT NO	P4.30

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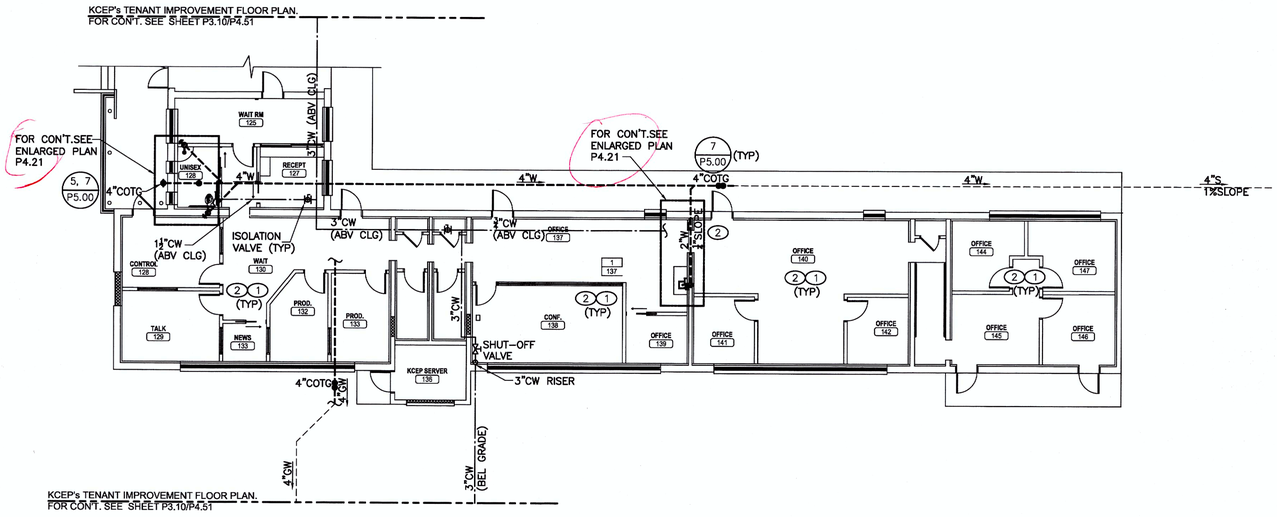


PLAN NOTES:

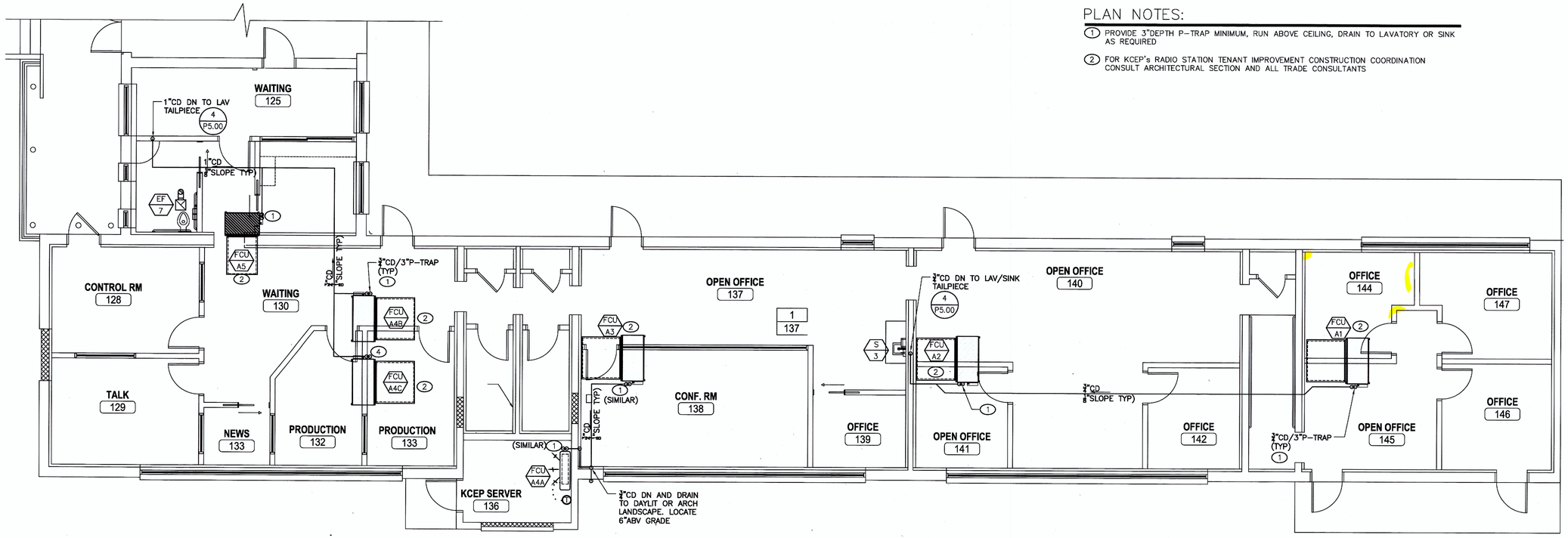
1. FOR KCEP's RADIO STATION TENANT IMPROVEMENT FLOOR PLAN, AND CONSTRUCTION COORDINATION CONSULT ARCHITECTURAL SECTION AND ALL TRADE CONSULTANTS
2. FOR CONTINUATION SEE SHEET P3.10

INSTRUCTIONS TO GEN. CONTRACTOR:

1. VERIFY SIZE, DEPTH, & LOCATION OF EXISTING UTILITIES BEFORE STARTING WORK.
2. PLUMBING CONTRACTOR TO FIELD VERIFY ALL HVAC EQUIPMENT/ SYSTEM, ELECTRICAL, PIPING SYSTEM AND PLUMBING SYSTEMS PRIOR TO COMMENCE WORK.
3. SUBMISSION OF A BID PROPOSAL, DIRECTLY OR INDIRECTLY BY THE CONTRACTOR FOR THIS WORK, SHALL IMPLY THAT THE BIDDER HAS EXAMINED THE JOB SITE AND UNDERSTANDS THE CONDITIONS THAT MAY AFFECT THE PERFORMANCE OF THE WORK. CONTRACTOR IS EXPECTED TO CONTACT ARCHITECT FOR ANY PARTICULAR PROBLEMS AND CLEAR UP ANY POSSIBLE MISUNDERSTANDING BEFORE BID IS SUBMITTED.
4. ALL WORK REQUIRED FOR IDENTICAL ITEMS SHOWN ON THE DRAWINGS SHALL BE PROVIDED ALTHOUGH EACH SPECIFIC IDENTICAL ITEM MAY NOT BE SHOWN IN DETAIL–OR CALLED OUT.
5. DRAWINGS ARE DIAGRAMMATIC, SMALL SCALE, AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED. CERTAIN COMPONENTS, APPURTENANCES, AND RELATED SPECIALTIES ARE NOT SHOWN, AND SHALL BE PROVIDED. IT IS THE INTENT OF THE DRAWING TO CALL FOR FINISHED WORK, TESTED AND READY FOR OPERATION. ARRANGEMENT OF EQUIPMENT AND ROUTING OF PIPES AND ETC. INDICATED ON DRAWINGS MAY REQUIRE MODIFICATION DUE TO UNFORESEEN CONDITIONS AND REQUIRED ON SITE REVISIONS DURING CONSTRUCTION.

PLUMBING KCEP's TENANT IMPROVEMENT SITE FLOOR PLAN - ANNEX BUILDING 1948 1

SCALE: 3/32" = 1'-0"



PLAN NOTES:

1. PROVIDE 3"DEPTH P–TRAP MINIMUM, RUN ABOVE CEILING, DRAIN TO LAVATORY OR SINK AS REQUIRED
2. FOR KCEP's RADIO STATION TENANT IMPROVEMENT CONSTRUCTION COORDINATION CONSULT ARCHITECTURAL SECTION AND ALL TRADE CONSULTANTS

PLUMBING KCEP's TENANT IMPROVEMENT CONDENSATE DRAIN FLOOR PLAN - ANNEX BUILDING 1948 2

SCALE: 3/16" = 1'-0"

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"Professional HVAC and Plumbing Designs"
10065 Oceanwood Avenue
N. Las Vegas, Nevada 89086
Tel. (702) 321-3953 Fax: (702) 982-6281

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PLUMBING KCEP's TENANT IMPROVEMENT FLOOR PLANS - ANNEX BUILDING 1948

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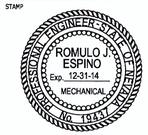

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LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6335
FAX: (702) 382-3232
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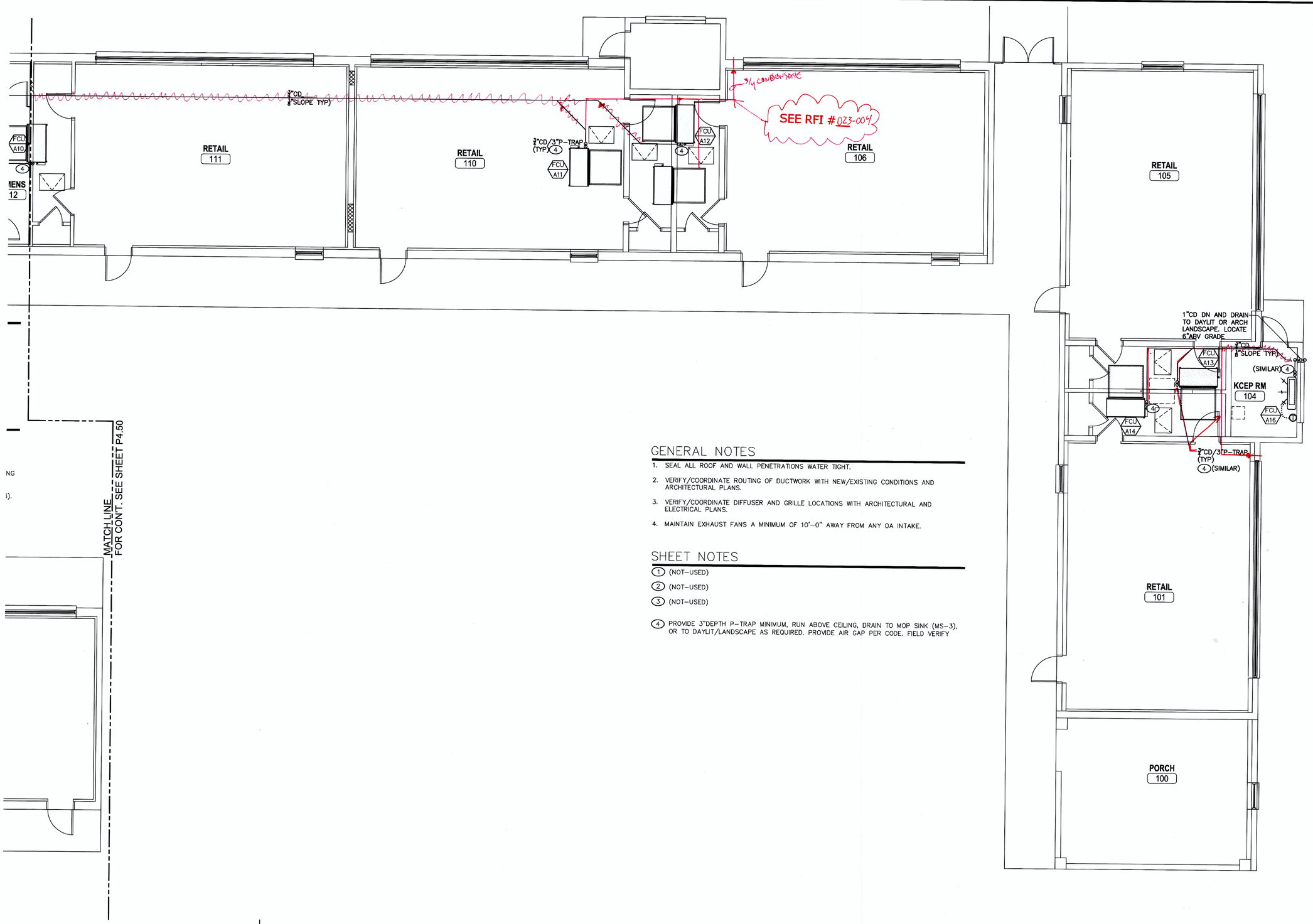

GENERAL NOTES

1. SEAL ALL ROOF AND WALL PENETRATIONS WATER TIGHT.
2. VERIFY/COORDINATE ROUTING OF DUCTWORK WITH NEW/EXISTING CONDITIONS AND ARCHITECTURAL PLANS.
3. VERIFY/COORDINATE DIFFUSER AND GRILLE LOCATIONS WITH ARCHITECTURAL AND ELECTRICAL PLANS.
4. MAINTAIN EXHAUST FANS A MINIMUM OF 10'-0" AWAY FROM ANY OA INTAKE.

SHEET NOTES

1. (NOT-USED)
2. (NOT-USED)
3. (NOT-USED)
4. PROVIDE 3"DEPTH P-TRAP MINIMUM, RUN ABOVE CEILING, DRAIN TO MOP SINK (MS-3), OR TO DAYLIT/LANDSCAPE AS REQUIRED. PROVIDE AIR GAP PER CODE. FIELD VERIFY

PLUMBING CONDENSATE DRAIN PARTIAL FLOOR PLAN (NORTH) - ANNEX BUILDING1948

SCALE: 3/16" = 1'-0"

1

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"Professional HVAC and Plumbing Designs"
1005 Oceanwood Avenue
N. Las Vegas, Nevada 89086
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P: 702-888-2088 / F: 702-888-2089
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PLUMBING CONDENSATE DRAIN PARTIAL FLOOR PLAN (NORTH)
ANNEX BUILDING 1948

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MECHANICAL
No. 19437

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FAX: (702) 382-3232
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FILE 2012-007

DATE 08-11-2014

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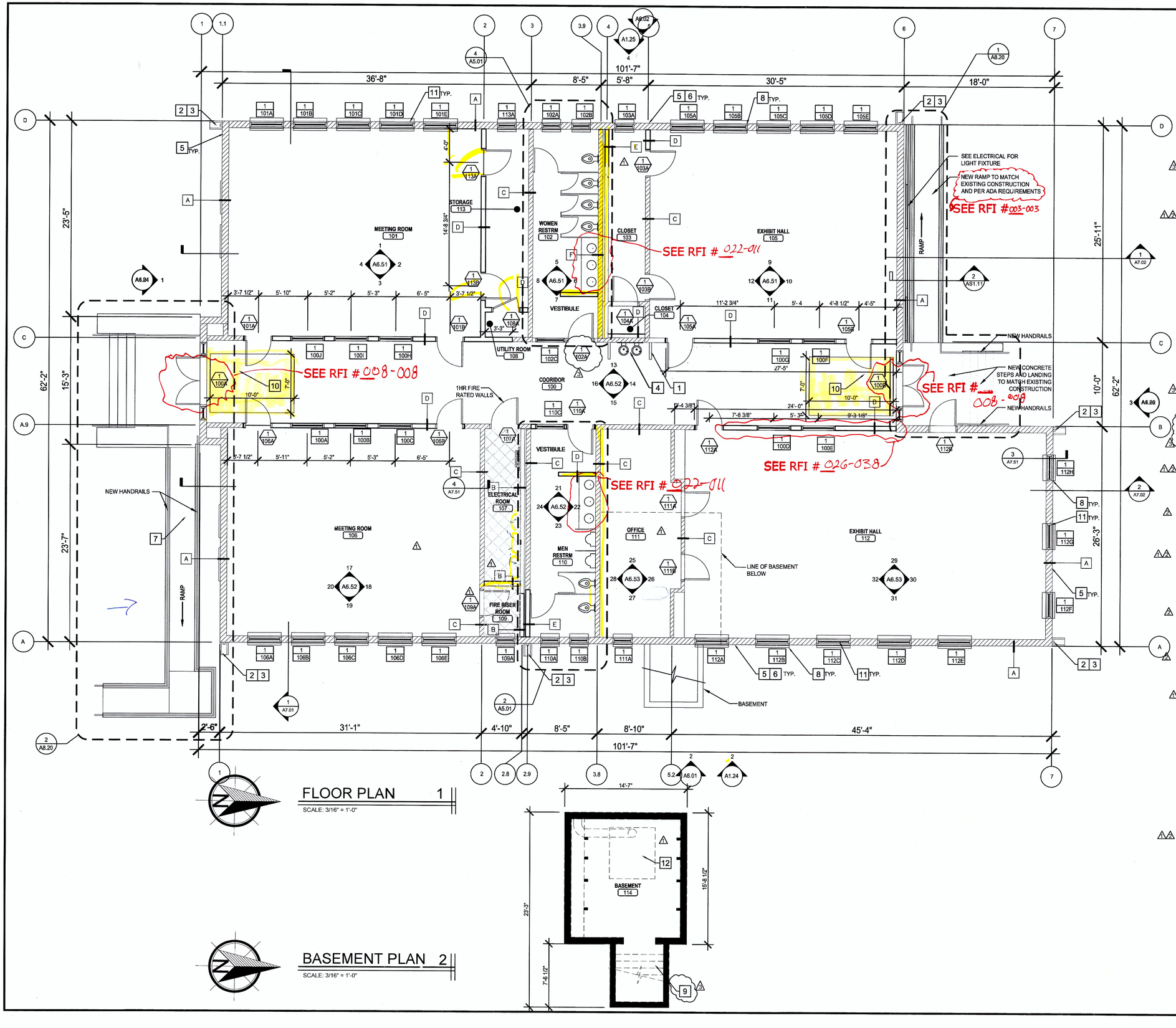

FLOOR PLAN 1

SCALE: 3/16" = 1'-0"

BASEMENT PLAN 2

SCALE: 3/16" = 1'-0"

KEYNOTES

1	36" MIN GUARD RAIL
2	REPAIR EXISTING GUTTER, AND DOWNSPOUT
3	NEW 18" X 12" X 3" SPLASH BLOCK
4	DRINKING FOUNTAIN
5	REPAIR / PATCH PLASTER WALL, TYP.
6	REPAIR ALL VENTS SCREEN AND OPENING
7	REPAIR CRACKS IN CONCRETE
8	REPAIR CRACK AT SILL OF WINDOWS, TYP.
9	REDO ALL SUPPORTS PATCH STEPS/ FOUNDATIONS, NEW DOORS.
10	ENTRY MAT
11	ADD STORM WINDOWS, TYP. SEE RFI #012-001
12	BOILER IN BASEMENT TO BE CLEANED AND PAINTED.

GENERAL NOTES

1. ARCHITECT TO BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES , BEFORE STARTING WORK.
2. COORDINATE WITH INTERIOR ELEVATIONS FOR EQUIPMENT LOCATION.
3. F.E.C. INDICATES RECESSED FIRE EXTINGUISHER CABINET, COORDINATE WITH EGRESS PLAN SHEETS FOR LOCATION.
4. WH INDICATES WATER HEATER, COORDINATE WITH PLUMBING SCHEDULE.
5. ALL DIMENSIONS ARE FROM FACE OF STUD-TYP. -U.N.O.
6. ALL APPLIANCES TO BE PROVIDED BY OWNER, INSTALLED BY GENERAL CONTRACTOR.
7. SAND SCRAPE, REPAIR AND PAINT ALL WINDOWS
8. REPLACE DAMAGED BRICK IN BOILER ROOM.
9. PLEASE REFER TO CHAPTER 7. "COMMUNICATION ELEMENTS AND FEATURES" FOR ALL SIGNAGE REQUIREMENTS. CONTRACTOR TO PROVIDE SIGNAGE SUBMITTAL FOR REVIEW TO INCLUDE RESTROOMS, MEETING ROOMS ETC.

WALL TYPES

A EXTERIOR CONCRETE WALL:
EXISTING CONCRETE - HISTORIC WALL, WITH PLASTER

B INTERIOR METAL STUD WALL:
362S125-27 METAL STUD @ 24" O.C., EXTEND STUD 12" ABOVE FINISH CEILING. PROVIDE 5/8" TYPE 'X' GYP. BD. ON BOTH SIDES. TERMINATE GYP. BD @ GYP CLG. SEE DETAIL 5 ON SHEET A8.70 FOR TYPICAL WALL FRAMING AND BRACING DETAILS. PROVIDE R-19 BATT INSULATION IN ALL WALL CAVITIES. 1 HOUR - SEE DETAIL 1 ON SHEET F4.02

C INTERIOR (EXISTING HISTORIC) WALL:
EXISTING HISTORICAL WALL, PAINT; (FOR 1 HOUR WALL, PROVIDED 5/8" TYPE 'X' GYP. BD. ON BOTH SIDE. SEE DETAIL 1 ON SHEET F4.02)

D INTERIOR METAL STUD WALL:
362S125-27 METAL STUD @ 24" O.C., EXTEND STUD 12" ABOVE FINISH CEILING. SEE DETAIL 5 ON SHEET A8.70 FOR TYPICAL WALL FRAMING AND BRACING DETAILS. PROVIDE 5/8" TYPE 'X' GYP. BD. ON BOTH SIDES. TERMINATE GYP. BD @ GYP CLG. PROVIDE R-19 BATT INSULATION IN ALL WALL CAVITIES.

E INTERIOR METAL STUD WALL:
362S125-27 METAL STUD @ 24" O.C., EXTEND STUD 12" ABOVE FINISH CEILING. SEE DETAIL 5 ON SHEET A8.70 FOR TYPICAL WALL FRAMING AND BRACING DETAILS. PROVIDE 5/8" TYPE 'X' GYP. BD. ON ONE SIDE. EXTEND GYP. BD. 6" ABOVE ACT CLG. TERMINATE GYP. BD @ GYP CLG. PROVIDE R-19 BATT INSULATION IN ALL WALL CAVITIES.

F INTERIOR METAL STUD WALL @ RESTROOM:
400S125-27 METAL STUD @ 24" O.C., EXTEND TO BOTTOM OF ROOF DECK & PROVIDED SLIP TRACK CONNECTION. AT LOCATIONS PROVIDED 5/8" TILE BACKER BD. BEHIND ALL TILE. SEE DETAIL 5 ON SHEET A8.70 FOR TYPICAL WALL FRAMING AND BRACING DETAILS. EXTEND GYP TO GYP. BD CLG. ON ROOM SIDE ONLY. FILL ALL WALL CAVITIES W FIBER BATT SOUND INSULATION. PROVIDE MOISTURE RESISTANT FIBER GLASS GYPSUM BOARD IN ALL RESTROOM WALL.

WALL LEGEND

- EXISTING HISTORIC WALL
- EXISTING WALL
- NEW WALL
- 1 HOUR WALL / CEILING

FLOOR LEGEND

- 1 HOUR FLOOR - SEE DETAIL 3 ON SHEET F4.01

REVISIONS
1 PLAN CHECK REVISIONS - 5/4/14
2 PLAN CHECK REVISIONS - 10/7/14
3 PLAN CHECK REVISIONS - 12/3/14

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LAS VEGAS, NEVADA 89118
P: 702-895-2068 / F: 702-895-2069
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CONSULTANT

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AUGUST 4, 2014

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OWNER: CITY OF LAS VEGAS
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400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6535
FAX: (702) 382-3232
TDD: (702) 386-9108

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FILE	2012-007
DATE	08-11-2014
SCALE	NTS
BID NO	12.43221-TF
CLV DWG NO	715-175-1
SHT NO	A2.01

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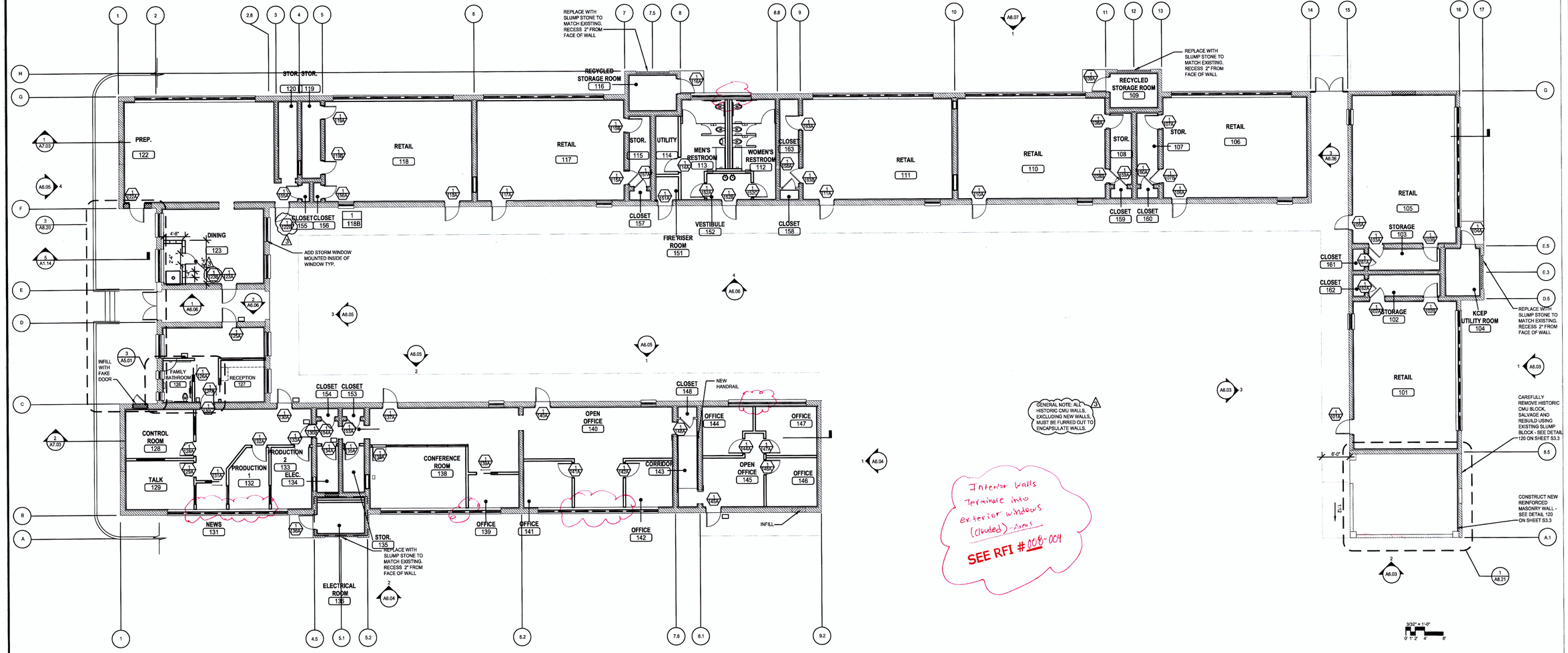

1948 ANNEX - OVERALL FLOOR PLAN

1

SCALE: 3/32" = 1'-0"

3/32" = 1'-0"
0' 1'-2' 4' 8'

REVISIONS

1 PLAN CHECK REVISIONS - 9/4/14
2 PLAN CHECK REVISIONS - 10/7/14
3 PLAN CHECK REVISIONS - 12/3/14

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LAS VEGAS, NEVADA 89118
P. 702-685-0068 / F. 702-685-0069
WEB: www.kmearchitects.com

CONSULTANT

WESTSIDE SCHOOL HISTORIC REHABILITATION
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CLV PLANS LIBRARY NUMBER: 715-175-1

1948 ANNEX - OVERALL FLOOR PLAN

STAMP

MELVIN D. GREEN REGISTERED No. 2249 ARCHITECT STATE OF NEVADA

AUGUST 4, 2014

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DEPARTMENT OF PUBLIC WORKS

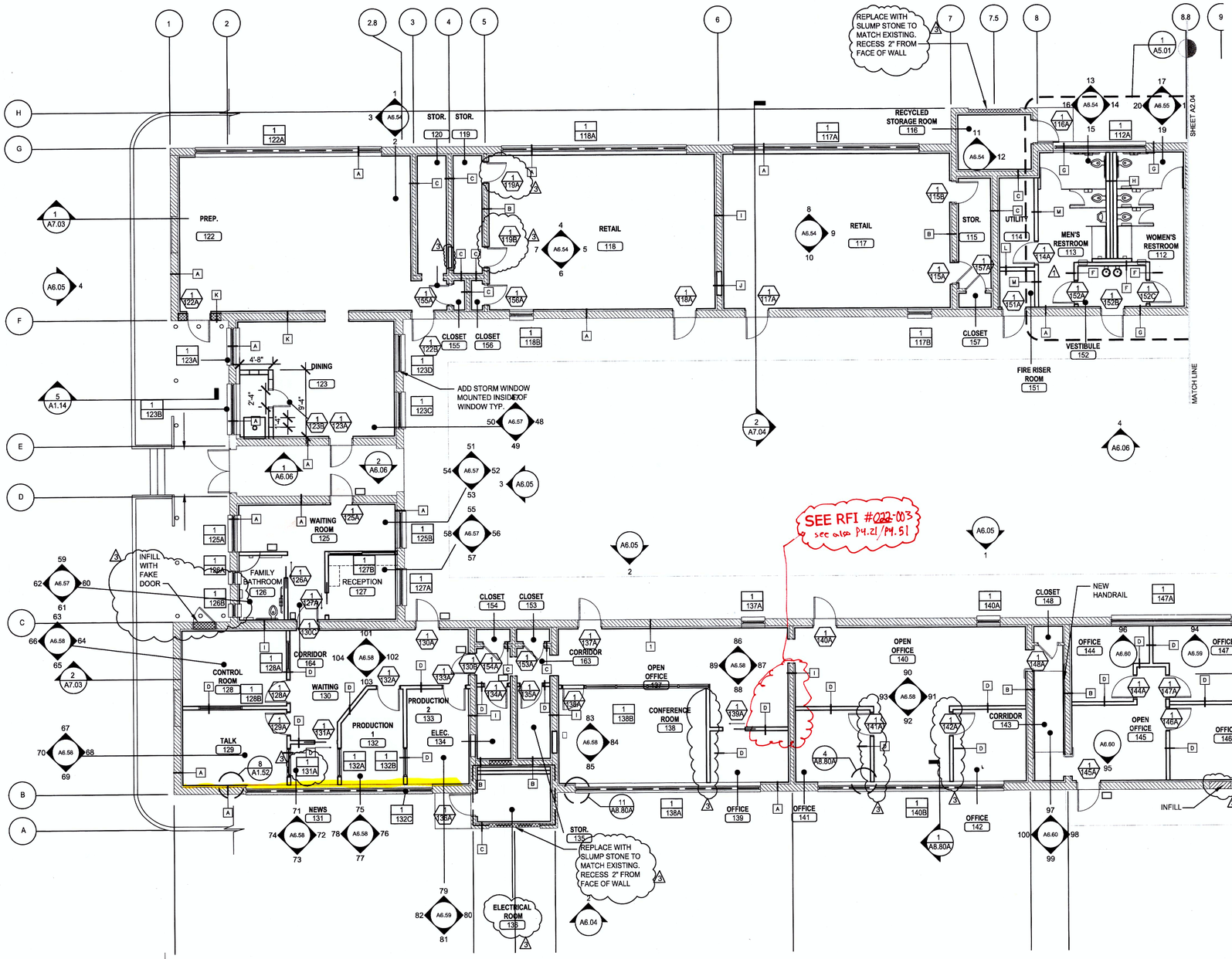
400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6535
FAX: (702) 382-3232
TDD: (702) 386-9108

DRAWN L.R.
FILE 20'2-007
DATE 08-11-2014
SCALE NTS
BID NO 12.43221-TF
CLV DWG NO 715-175-1
SHT NO

A2.02

GENERAL NOTES CONTINUED

3 PLEASE REFER TO CHAPTER 7. "COMMUNICATION ELEMENTS AND FEATURES" FOR ALL SIGNAGE REQUIREMENTS. CONTRACTOR TO PROVIDE SIGNAGE SUBMITTAL FOR REVIEW TO INCLUDE RESTROOMS, RETAIL SPACES ETC.



1948 ANNEX - ENLARGED FLOOR PLAN - PART A

1

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

1/8" = 1'-0"
0' 1' 2' 4' 8'

WALL TYPES

3 **A** EXTERIOR CMU WALL:
EXISTING 8X4X12 SLUMP BLOCK, 250S125-27 Z FURRING STUD @ 24 O.C. EXTEND STUDS 6" WHERE POSSIBLE ABOVE FINISH CLG. PROVIDE 5/8" TYPE 'X' GYP. BD. ON ONE SIDE. EXTEND GYP BD. 6" ABOVE ACT CLG. TERMINATED GYP. BD. @ GYP CLG. PROVIDE R-12 RIGID FOIL FACED INSULATION. FOIL FACE TOWARDS EXTERIOR WITH 1/2" AIR GAP. FIBER GLASS FACED GYP. BOARD TO OCCUR @ ALL WET AREAS AND RESTROOMS

B INTERIOR SLUMP BLOCK WALL:
EXISTING CMU WALL WITH 250S125-27 Z FURRING STUD. PROVIDE 5/8" TYPE 'X' GYP. BD. ON ONE SIDE. EXTEND GYP BD. 6" ABOVE ACT CLG. TERMINATE GYP. BD. @ GYP CLG.

1 **C** INTERIOR SLUMP BLOCK WALL:
EXISTING CMU WALL, PAINT - 1 HOUR PER 4 /F4.01 WHERE OCCURS

2 **D** INTERIOR METAL STUD WALL:
362S125-33 METAL STUDS @ 24" O.C. PROVIDE 5/8" TYPE 'X' GYP.BD. ON BOTH SIDE. SEE DETAIL 5 ON SHEET A8.70 FOR TYPICAL WALL FRAMING AND BRACING DETAILS. EXTEND GYP. BD. ABOVE ACT CLG. TERMINATE GYP. BD. @ GYP CLG. PROVIDE R-19 INSULATION ALL WALL CAVITIES.

1 2 **E** INTERIOR METAL STUD WALL
362S125-33 METAL STUDS @ 24" O.C. EXTEND STUDS TO BOTTOM OF TRUSS. PROVIDE 5/8" GYPSUM BOARD WITH FIBER GLASS ON EACH SIDE. SEE DETAIL 5 ON SHEET A8.70 FOR TYPICAL WALL FRAMING AND BRACING DETAILS. PROVIDE 1/4" CERAMIC TILE ON RESTROOM SIDE ONLY.

2 **F** METAL STUD PLUMBING CHASE WALL
362S125-33 METAL STUDS @ 24" O.C. EXTEND STUDS TO BOTTOM OF TRUSS. AT RESTROOM LOCATIONS PROVIDED 3" TILE BACKER BD. BEHIND ALL TILE. SEE DETAIL 5 ON SHEET A8.70 FOR TYPICAL WALL FRAMING AND BRACING DETAILS. PROVIDED 5/8" TYPE X GYPSUM BOARD ON EACH SIDE. EXTEND GYP TO GYP CLG. ON ROOM SIDE ONLY. FILL ALL WALL CAVITIES W/ FIBER BATT SOUND INSULATION. PROVIDE1/4" CERAMIC ON BOTH SIDES.

3 **G** SLUMP PLUMBING CHASE WALL
EXISTING 8X4X16 SLUMP BLOCK, 250S125-27 Z FURRING AT RESTROOM LOCATIONS PROVIDED 3" TILE BACKER BD. BEHIND ALL TILE. PROVIDE 5/8" GYP. BD. AND RIGID INSULATION R-12. FIBER GLASS FACED GYP. BOARD TO OCCUR @ ALL WET AREAS AND RESTROOMS. PROVIDE 1/4" CERAMIC ON ONE SIDE.

2 **H** FULL HEIGHT ACOUSTICAL DOUBLE GLAZED PARTITION SYSTEM
362S125-33 METAL STUDS @ 24" O.C. EXTEND STUDS TO BOTTOM OF TRUSS. PROVIDE 5/8" TYPE X GYPSUM BOARD ON INTERIOR SIDE. PROVIDE 1/4" CERAMIC ON INTERIOR SIDE. SEE DETAIL 5 ON SHEET A8.70 FOR TYPICAL WALL FRAMING AND BRACING DETAILS.

3 **I** INTERIOR CMU WALL:
EXISTING CMU WALL WITH 250S125-27 Z FURRING @ 24" O.C. EXTEND STUD 6" WHERE POSSIBLE ABOVE FINISH CLG. PROVIDE 5/8 " TYPE 'X' GYP. BD. ON BOTH SIDES. EXTEND GYP BD. 6" ABOVE ACT CLG. TERMINATE GYP. BD @ GYP CLG

3 **J** INTERIOR CMU WALL (IN-FIELD):
800S125-43 METAL STUD IN-FIELD OPENING WITH 250S125-27 Z FURRING @ 24" O.C. PROVIDE 5/8" TYPE 'X' GYP. BD. ON BOTH SIDES. EXTEN GYP BD. 6" WHERE POSSIBLE ABOVE ACT CLG. TERMINATE GYP. BD. @ GYP. CLG.

K SLUMP PLUMBING CHASE WALL
EXISTING 4X8X16 SLUMP BLOCK, AND RIGID INSULATION R-12. DUROCK TO OCCUR @ ALL WET AREAS AND RESTROOMS. PROVIDE 1/4" CERAMIC ON ONE SIDE.

1 2 **L** INTERIOR METAL STUD WALL:
362S125-27 METAL STUD @ 24" O.C. PROVIDE 5/8" TYPE 'X' GYP. BD. ON BOTH SIDES. TERMINATE GYP. BD @ GYP CLG. PROVIDE R-19 BATT INSULATION IN ALL WALL CAVITIES. SEE DETAIL 5 ON SHEET A8.70 FOR TYPICAL WALL FRAMING AND BRACING DETAILS. 1 HOUR - SEE DETAIL 1 ON SHEET F4.02

1 2 **M** INTERIOR METAL STUD WALL
362S125-27 METAL STUD @ 24" O.C. PROVIDE 5/8" TYPE 'X' GYP. BD. ON BOTH SIDES. TERMINATE GYP. BD @ GYP CLG. SEE DETAIL 5 ON SHEET A8.70 FOR TYPICAL WALL FRAMING AND BRACING DETAILS. PROVIDE R-19 BATT INSULATION IN ALL WALL CAVITIES. PROVIDE 1/4" CERAMIC TILE ON RESTROOM SIDE ONLY. 1 HOUR - SEE DETAIL 1 ON SHEET F4.02

WALL LEGEND

- EXISTING HISTORIC WALL
- EXISTING WALL
- NEW WALL
- NEW SLUMP BLOCK WALL
- 1 HOUR FIRE RATED WALL

GENERAL NOTES

1. ARCHITECT TO BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES , BEFORE STARTING WORK.
2. COORDINATE WITH INTERIOR ELEVATIONS FOR EQUIPMENT LOCATION.
3. F.E.C. INDICATES SEMI-RECESSED FIRE EXTINGUISHER CABINET, COORDINATE WITH EGRESS PLAN SHEETS FOR LOCATION.
4. BLOCKING TO BE INSTALLED AT ALL H.C. GRAB BARS, WALLS AND CABINETS.
5. ALL DIMENSIONS ARE FROM FACE OF STUD-TYP. -U.N.O.
6. ALL APPLIANCES TO BE PROVIDED BY OWNER, INSTALLED BY GENERAL CONTRACTOR.
7. ALL DIMENSIONS ARE FROM FACE OF STUD- TYP. -U.N.O.
8. ALL APPLIANCES TO BE PROVIDED BY OWNER
9. CONTRACTOR TO ADD ALLOWANCE FOR GUTTER, DOWNSPOUT AND SPLASH BLOCK FOR 1948 BUILDING.
3 10. KCEP/ RADIO STATION MUST REMAIN OPERATIONAL DURING CONSTRUCTION OPERATIONS.

REVISIONS
1 PLAN CHECK REVISIONS - 9/4/14
2 PLAN CHECK REVISIONS - 10/7/14
3 PLAN CHECK REVISIONS - 12/3/14

ARCHITECT
kme ARCHITECTS
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6765 WEST RUSSELL ROAD, SUITE 200
LAS VEGAS, NEVADA 89118
P: 702-888-2066 / F: 702-888-2069
WEB: www.kmearchitects.com

CONSULTANT

WESTSIDE SCHOOL HISTORIC REHABILITATION
330 W. WASHINGTON AVE.
LAS VEGAS, NEVADA 89106

CLV PLANS LIBRARY NUMBER: 715-175-1

BID NUMBER: 12.43221-TF

1948 ANNEX - ENLARGED FLOOR PLAN - PART A

STAMP
MELVIN D. GREEN REGISTERED No. 2249 ARCHITECT STATE OF NEVADA

AUGUST 4, 2014

CONSTRUCTION DOCUMENTS

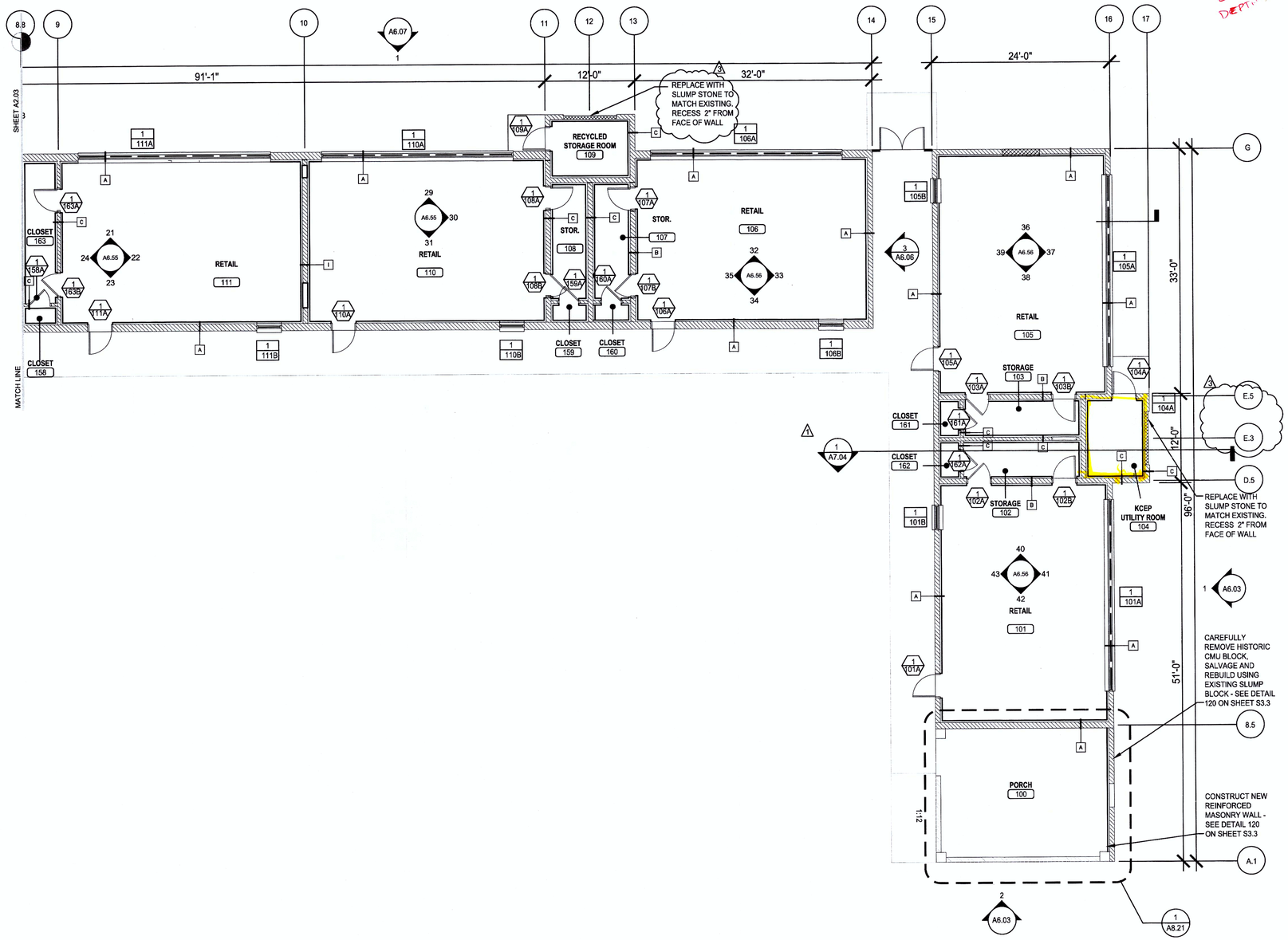
OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6535
FAX: (702) 382-3232
TDD: (702) 386-9108

DRAWN L.R.
FILE 2012-007
DATE 08-11-2014
SCALE NTS
BID NO 12.43221-TF
CLV DWG NO 715-175-1
SHT NO
A2.03

GENERAL NOTES CONTINUED

3 PLEASE REFER TO CHAPTER 7. "COMMUNICATION ELEMENTS AND FEATURES" FOR ALL SIGNAGE REQUIREMENTS. CONTRACTOR TO PROVIDE SIGNAGE SUBMITTAL FOR REVIEW TO INCLUDE RESTROOMS, RETAIL SPACES ETC.



WALL TYPES

A EXTERIOR CMU WALL:
EXISTING 8X4X12 SLUMP BLOCK, 250S125-27 Z FURRING STUD @ 24 O.C. EXTEND STUDS 6" WHERE POSSIBLE ABOVE FINISH CLG. PROVIDE 5/8" TYPE 'X' GYP. BD. ON ONE SIDE. EXTEND GYP BD. 6" ABOVE ACT CLG. TERMINATED GYP. BD. @ GYP CLG. PROVIDE R-12 RIGID FOIL FACED INSULATION. FOIL FACE TOWARDS EXTERIOR WITH 1/2" AIR GAP. FIBER GLASS FACED GYP. BOARD TO OCCUR @ ALL WET AREAS AND RESTROOMS

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C INTERIOR SLUMP BLOCK WALL:
EXISTING CMU WALL, PAINT - 1 HOUR PER 4 /F4.01 WHERE OCCURS

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F METAL STUD PLUMBING CHASE WALL
362S125-33 METAL STUDS @ 24" O.C. EXTEND STUDS TO BOTTOM OF TRUSS. AT RESTROOM LOCATIONS PROVIDED ½" TILE BACKER BD. BEHIND ALL TILE. SEE DETAIL 5 ON SHEET A8.70 FOR TYPICAL WALL FRAMING AND BRACING DETAILS. PROVIDED 5/8" TYPE X GYPSUM BOARD ON EACH SIDE. EXTEND GYP TO GYP CLG. ON ROOM SIDE ONLY. FILL ALL WALL CAVITIES W/ FIBER BATT SOUND INSULATION. PROVIDE1/4" CERAMIC ON BOTH SIDES.

G SLUMP PLUMBING CHASE WALL
EXISTING 8X4X16 SLUMP BLOCK, 250S125-27 Z FURRING AT RESTROOM LOCATIONS PROVIDED ½" TILE BACKER BD. BEHIND ALL TILE. PROVIDE 5/8" GYP. BD. AND RIGID INSULATION R-12. FIBER GLASS FACED GYP. BOARD TO OCCUR @ ALL WET AREAS AND RESTROOMS. PROVIDE 1/4" CERAMIC ON ONE SIDE.

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I INTERIOR CMU WALL:
EXISTING CMU WALL WITH 250S125-27 Z FURRING @ 24" O.C. EXTEND STUD 6" WHERE POSSIBLE ABOVE FINISH CLG. PROVIDE 5/8 " TYPE 'X' GYP. BD. ON BOTH SIDES. EXTEND GYP BD. 6" ABOVE ACT CLG. TERMINATE GYP. BD @ GYP CLG.

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900S125-43 METAL STUD IN-FIELD OPENING WITH 250S125-27 Z FURRING @ 24" O.C. PROVIDE 5/8" TYPE 'X' GYP. BD. ON BOTH SIDES. EXTEN GYP BD. 6" WHERE POSSIBLE ABOVE ACT CLG. TERMINATE GYP. BD. @ GYP. CLG.

K SLUMP PLUMBING CHASE WALL
EXISTING 4X8X16 SLUMP BLOCK, AND RIGID INSULATION R-12. DUROCK TO OCCUR @ ALL WET AREAS AND RESTROOMS. PROVIDE 1/4" CERAMIC ON ONE SIDE.

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M INTERIOR METAL STUD WALL
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WALL LEGEND

- EXISTING HISTORIC WALL
- EXISTING WALL
- NEW WALL
- NEW SLUMP BLOCK WALL
- 1 HOUR FIRE RATED WALL

GENERAL NOTES

1. ARCHITECT TO BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES , BEFORE STARTING WORK.
2. COORDINATE WITH INTERIOR ELEVATIONS FOR EQUIPMENT LOCATION.
3. F.E.C. INDICATES SEMI-RECESSED FIRE EXTINGUISHER CABINET, COORDINATE WITH EGRESS PLAN SHEETS FOR LOCATION.
4. BLOCKING TO BE INSTALLED AT ALL H.C. GRAB BARS, WALLS AND CABINETS.
5. ALL DIMENSIONS ARE FROM FACE OF STUD-TYP. -U.N.O.
6. ALL APPLIANCES TO BE PROVIDED BY OWNER, INSTALLED BY GENERAL CONTRACTOR.
7. ALL DIMENSIONS ARE FROM FACE OF STUD- TYP. -U.N.O.
8. ALL APPLIANCES TO BE PROVIDED BY OWNER
9. CONTRACTOR TO ADD ALLOWANCE FOR GUTTER, DOWNSPOUT AND SPLASH BLOCK FOR 1948 BUILDING.
10. KCEP/ RADIO STATION MUST REMAIN OPERATIONAL DURING CONSTRUCTION OPERATIONS.

1948 ANNEX - ENLARGED FLOOR PLAN - PART B

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

1/8" = 1'-0"
0' 1' 2' 4' 8'

REVISIONS
1 PLAN CHECK REVISIONS - 9/4/14
2 PLAN CHECK REVISIONS - 10/7/14
3 PLAN CHECK REVISIONS - 12/3/14

ARCHITECT
kme ARCHITECTS
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6765 WEST RUSSELL ROAD, SUITE 200
LAS VEGAS, NEVADA 89118
P: 702-868-2068 / F: 702-868-2069
WEB: www.kmearchitects.com
CONSULTANT

WESTSIDE SCHOOL HISTORIC REHABILITATION

330 W. WASHINGTON AVE.
LAS VEGAS, NEVADA 89106

BID NUMBER: 12.43221-TF

CLV PLANS LIBRARY NUMBER: 715-175-1

1948 ANNEX - ENLARGED FLOOR PLAN - PART B

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MELVIN D. GREEN REGISTERED No. 2249 ARCHITECT STATE OF NEVADA

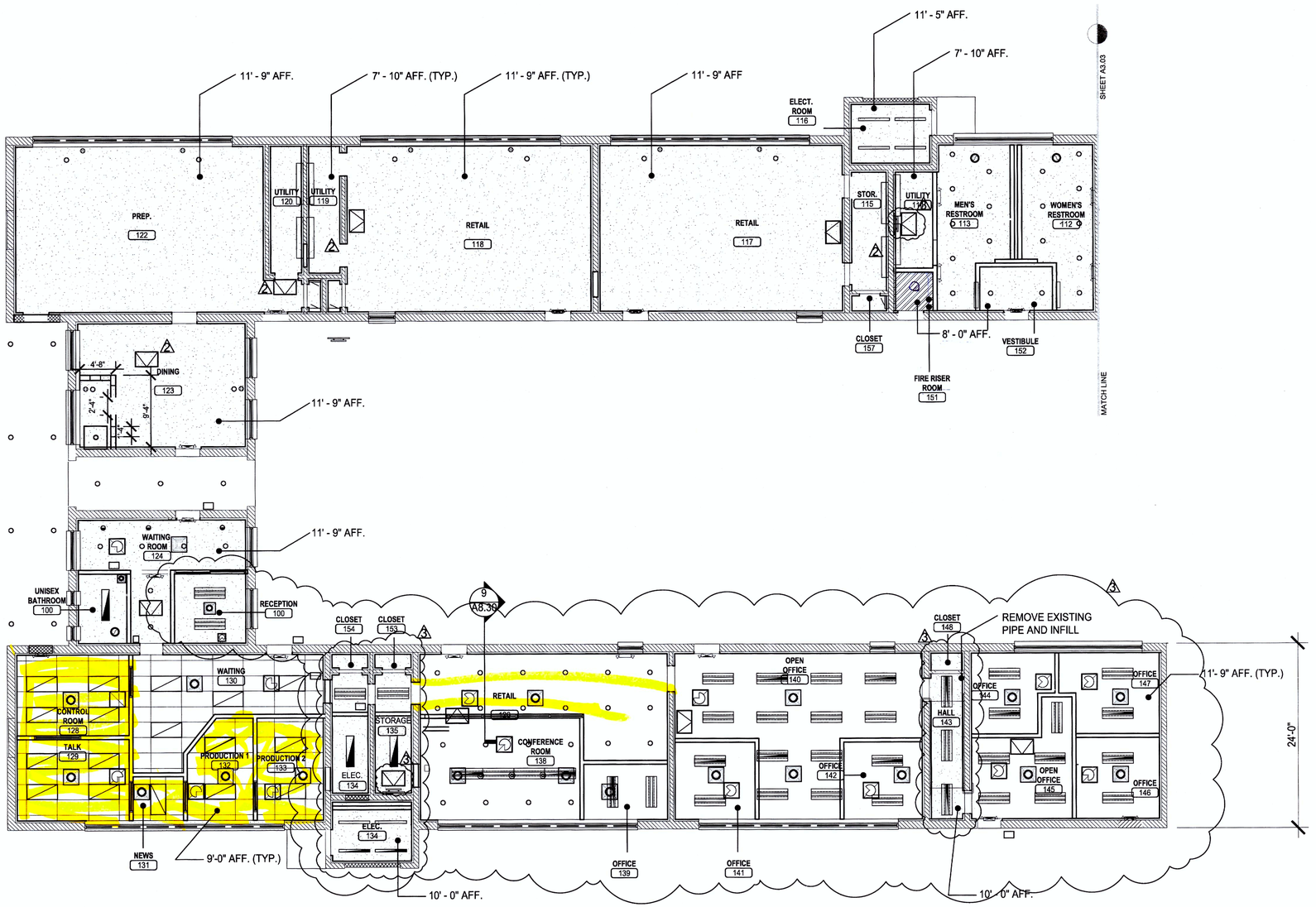
AUGUST 4, 2014

CONSTRUCTION DOCUMENTS

OWNER: CITY OF LAS VEGAS DEPARTMENT OF PUBLIC WORKS

400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6535
FAX: (702) 382-3232
TDD: (702) 386-9108

DRAWN L.R.
FILE 2012-007
DATE 08-11-2014
SCALE NTS
BID NO 12.43221-TF
CLV DWG NO 715-175-1
SHT NO A2.04



CEILING LEGEND

SYMBOL	DESCRIPTION
	WALL MOUNTED FLORESCENT FIXTURE
	WALL MOUNTED FLORESCENT FIXTURE
	WALL MOUNTED FLORESCENT FIXTURE
	FLUORESCENT LIGHT FIXTURES
	FLUORESCENT LIGHT FIXTURES
4	TIME SENSITIVE LIGHT FIXTURES
	NOT USED
	NEW 24" X 48" LAY-IN ACOUSTICAL CEILING
	NEW 5/8" GYPSUM BOARD CEILING
1 2	1 HR CEILING - SEE DETAIL 5 ON SHEET F4.01
	SUPPLY AIR DEVICE- SEE MECHANICAL DRAWINGS FOR SPECS.
	CEILING ACCESS PANEL- SEE MECHANICAL DRAWINGS FOR SPECS
	RETURN AIR DEVICE- SEE MECHANICAL DRAWINGS FOR SPECS.
	FIRE ALARM
	ART DECO RINGED BAFFLE LIGHT FIXTURE PENDANT- SEE ELECTRICAL DRAWINGS FOR SPECS.

GENERAL NOTES

1. ALL LIGHT FIXTURES ON GYPSUM BOARD CEILING ARE CENTERED IN ROOMS U.N.O. WHEN MORE THAN ONE LIGHT OCCURS PROVIDE EQUAL SPACE BETWEEN LIGHTS

2. REFER TO ROOM FINISH SCHEDULE FOR CEILING TYPES.

3. ALL FLORESCENT LIGHT FIXTURES @ GYP. BD. CEILING SHALL BE SURFACE MOUNTED.

4. PROVIDE UNISTRUT TYPE SUPPORT WHERE REQUIRED TO SUSPEND CEILING GRID BELOW MECHANICAL EQUIPMENT.

5. GENERAL CONTRACTOR TO LOCATE AND COORDINATE ALL ACCESS PANELS IN GYPSUM BOARD CEILING CONSTRUCTION WITH MECHANICAL/ PLUMBING/ELECTRICAL WORK. ALL MECHANICAL/PLUMBING/ELECTRICAL WORK MAY REQUIRE ADJUSTMENT REPAIR OR REMOVAL.

6. ALL ACOUSTICAL CEILING TILE GRIDS ARE CENTERED IN INDIVIDUAL ROOMS U.N.O.

7. LIGHT FIXTURES, MECHANICAL DUCTS, AND REGISTERS ARE SHOWN FOR LOCATION PURPOSES ONLY. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR ACTUAL SIZES AND TYPES.

8. E.Q. DENOTES EQUAL

9. CEILING ACCESS LOCATIONS HAS TO BE WALKED IN THE FIELDS AND COORDINATED WITH ALL PARTIES.

10. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING THIS AREA ACCESSIBLE THROUGHOUT CONSTRUCTION AND IF A SUBCONTRACTOR PUTS "SOMETHING" IN THE WAY, IT NEEDS TO BE MOVED AT NO COST TO THIS CITY.

11. REMOVE ALL PLASTER CEILING AND REPLACE WITH DRYWALL EXCEPT IN THE BREEZEWAYS.

12. PER THE 2009 UNIFORM MECHANICAL CODE 304.6 "UNLESS OTHERWISE SPECIFIED, NOT LESS THAN THIRTY INCHES IN DEPTH, WIDTH AND HEIGHT OF A WORKING SPACE SHALL BE PROVIDED." THIS CODE APPLIES TO EACH UNIT AND EACH WORK SURFACE WILL HAVE 5/8" PLYWOOD.

1948 ANNEX - REFLECTED CEILING PLAN - SHELL BUILDING - PART A

1

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

3/32" = 1'-0"
0 1' 2 4 8

REVISIONS

1 PLAN CHECK REVISIONS - 9/4/14
1 PLAN CHECK REVISIONS - 10/7/14
1 PLAN CHECK REVISIONS - 12/3/14

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kme ARCHITECTS
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8765 WEST RUSSELL ROAD, SUITE 200
LAS VEGAS, NEVADA 89148
P: 702-888-2088 / F: 702-888-2089
WEB: www.kmearchitects.com
CONSULTANT

WESTSIDE SCHOOL HISTORIC REHABILITATION

330 W. WASHINGTON AVE.
LAS VEGAS, NEVADA 89106

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1948 ANNEX REFLECTED CEILING PLAN - PART A

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AUGUST 4, 2014

CONSTRUCTION DOCUMENTS

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6535
FAX: (702) 382-3232
TDD: (702) 386-9108

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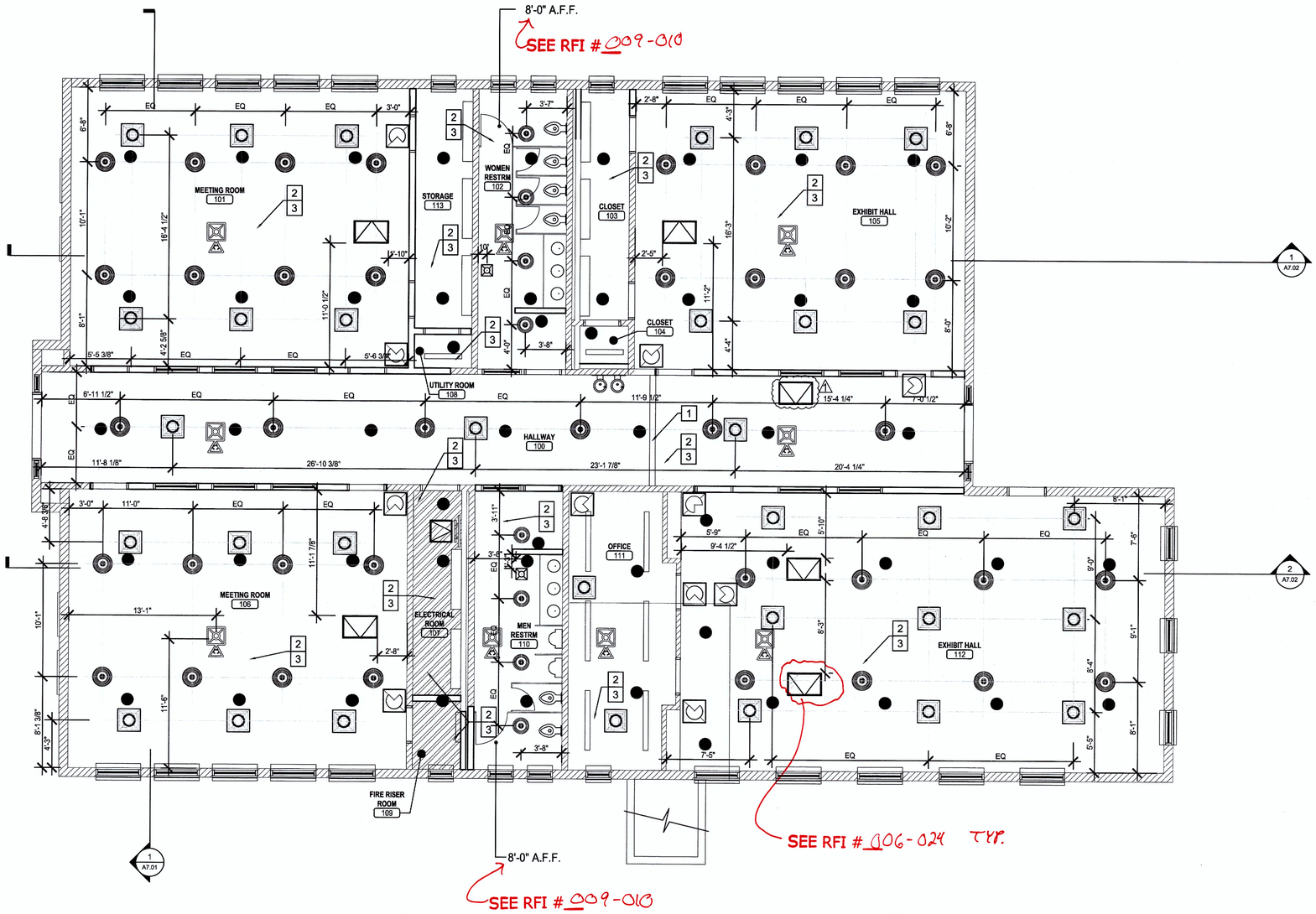
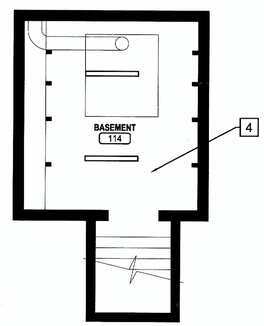
FILE 2012-007
DATE 08-11-2014
SCALE NTS
BID NO 12.43221-TF
CLV DWG NO 715-175-1
SHT NO A3.02



REFLECTED CEILING PLAN 1

SCALE: 3/16" = 1'-0"



BASEMENT REFLECTED CEILING PLAN 2

SCALE: 3/16" = 1'-0"

CEILING LEGEND

SYMBOL	DESCRIPTION
	ART DECO RINGED BAFFLE LIGHT FIXTURE PENDANT- SEE ELECTRICAL DRAWINGS FOR SPECS.
	EXISTING ORIGINAL PLASTER CEILING TO REMAIN ⚠2
	1HOUR GYPSUM BOARD CEILING. CONSTRUCT CEILING AT ELECTRICAL & FIRE RISER ROOMS PER 2009 IBC. SEE DETAIL 5 ON SHEET F4.01
	FLUORESCENT LIGHT FIXTURES- SEE ELECTRICAL DRAWINGS FOR SPECS
	SUPPLY AIR DEVICE- SEE MECHANICAL DRAWINGS FOR SPECS.
	RETURN AIR DEVICE- SEE MECHANICAL DRAWINGS FOR SPECS.
	EXHAUST FAN- SEE MECHANICAL DRAWINGS FOR SPECS
	ACCESS LADDER
	CEILING EXCESS PANEL- SEE MECHANICAL DRAWINGS FOR SPECS
	FIRE ALARM
	FIRE SPRINKLER HEAD / COVER

GENERAL NOTES

1. ALL LIGHT FIXTURES ON GYPSUM BOARD CEILING ARE CENTERED IN ROOMS U.N.O. WHEN MORE THAN ONE LIGHT OCCURS PROVIDE EQUAL SPACE BETWEEN LIGHTS

2. REFER TO ROOM FINISH SCHEDULE FOR CEILING TYPES.

3. ALL FLORESCENT LIGHT FIXTURES @ GYP. BD. CEILING SHALL BE SURFACE MOUNTED.

4. PROVIDE UNISTRUT TYPE SUPPORT WHERE REQUIRED TO SUSPEND CEILING GRID BELOW MECHANICAL EQUIPMENT.

5. GENERAL CONTRACTOR TO LOCATE AND COORDINATE ALL ACCESS PANELS IN GYPSUM BOARD CEILING CONSTRUCTION WITH MECHANICAL/PLUMBING/ELECTRICAL WORK. ALL MECHANICAL/PLUMBING/ELECTRICAL WORK MAY REQUIRE ADJUSTMENT REPAIR OR REMOVAL.

6. ALL ACOUSTICAL CEILING TILE GRIDS ARE CENTERED IN INDIVIDUAL ROOMS U.N.O.

7. LIGHT FIXTURES, MECHANICAL DUCTS, AND REGISTERS ARE SHOWN FOR LOCATION PURPOSES ONLY. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR ACTUAL SIZES AND TYPES.

8. E.Q. DENOTES EQUAL

9. CEILING ACCESS LOCATIONS HAS TO BE WALKED IN THE FIELDS AND COORDINATED WITH ALL PARTIES.

10. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING THIS AREA ACCESSIBLE THROUGHOUT CONSTRUCTION AND IF A SUBCONTRACTOR PUTS "SOMETHING" IN THE WAY, IT NEEDS TO BE MOVED AT NO COST TO THIS CITY.

KEY NOTES

1	REPAIR EXISTING OVERHEAD DOOR OPENING AND PAINT
2	REPAIR EXISTING PLASTER CEILING AND MOULDING, PAINT
3	PROVIDE AND INSTALL HVAC UNITS, DUCTWORK AND GRILLES ABOVE CEILING
4	EXPOSED TO STRUCTURE

REVISIONS

⚠1 PLAN CHECK REVISIONS - 9/4/14

⚠1 PLAN CHECK REVISIONS - 10/7/14

⚠1 PLAN CHECK REVISIONS - 12/3/14

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kme ARCHITECTS
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6765 WEST RUSSELL ROAD, SUITE 200
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BID NUMBER: 12.43221-TF

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1923 BUILDING - REFLECTED CEILING PLANS

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AUGUST 4, 2014

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SHT NO

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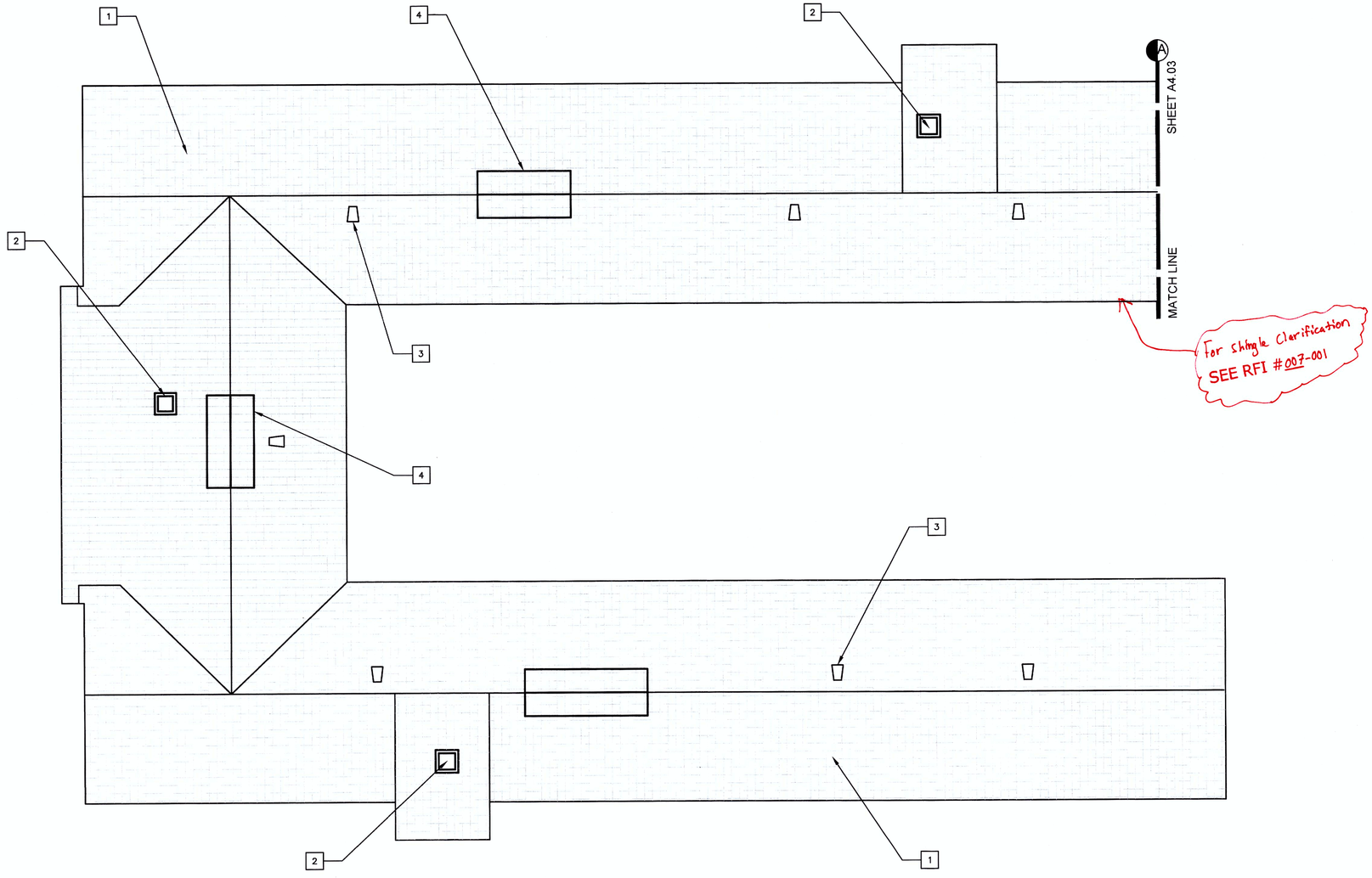
REVISED 8/14/13



GENERAL NOTES

1. PAINT ALL EXPOSED MET. SURFACES ON ROOF, INCLUDING PRIMED SURFACES AND ALL SHEET MET.
2. ROOF FLASHING AROUND CHIMNEY 8" ABOVE ROOF SURFACE
3. ALL PLUMBING VENTS FROM BELOW SHALL BE MIN 10' FROM ANY MECH. UNIT
4. CONTRACTOR TO EVALUATE EXISTING STANDING SEAM ROOF FOR LEAKS. CONTRACTOR TO REPAIR ANY LEAKS.

KEYNOTES

1	REPAIR ASPHALT SHINGLES (TYP.)
2	ADD CAP TO EXISTING CHIMNEY. SEE STRUCTURAL PLAN FOR SEISMIC BRACING
3	SHEET METAL ATTIC VENT TO BE REPAIRED AND PAINTED
4	GABLED RIDGE VENTILATOR
5	REPAIR WALLS WHERE DAMAGE FROM REMOVAL OF BOLTS FROM TRELLIS SYSTEM OCCUR.

1948 ANNEX - ROOF PLAN- PART A 1

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

REVISIONS

1 PLAN CHECK REVISIONS - 5/4/14
2 PLAN CHECK REVISIONS - 10/7/14
3 PLAN CHECK REVISIONS - 12/3/14

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LAS VEGAS, NEVADA 89118
P: 702-888-2088 / F: 702-888-2089
WEB: www.kmearchitects.com

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WESTSIDE SCHOOL HISTORIC REHABILITATION

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BID NUMBER: 12.43221-TF

CLV PLANS LIBRARY NUMBER: 715-175-1

1948 ANNEX - ROOF PLAN- PART A

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MELVIN D. GREEN
REGISTERED
No. 2249
ARCHITECT
STATE OF NEVADA

AUGUST 4, 2014

CONSTRUCTION DOCUMENTS

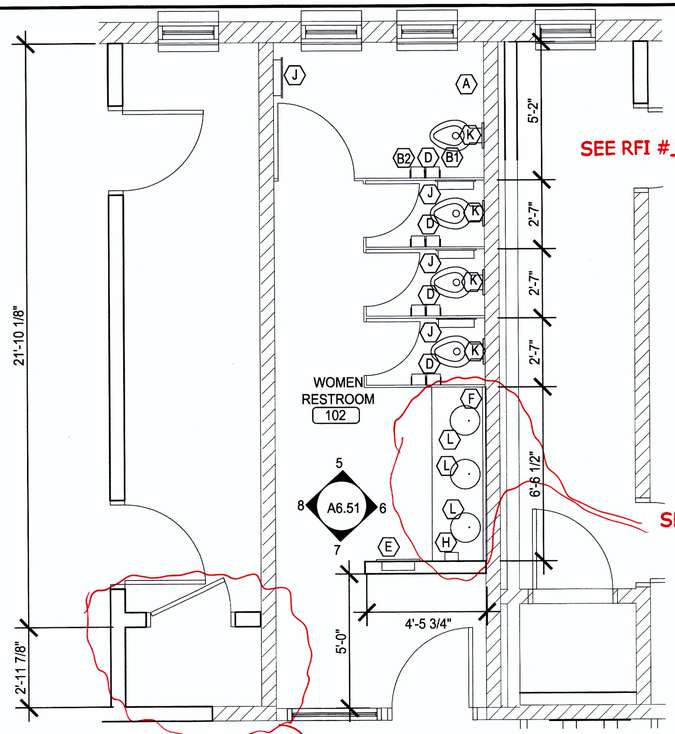
OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6535
FAX: (702) 382-3232
TDD: (702) 386-9108

DRAWN L.R.
FILE 2012-007
DATE 08-11-2014
SCALE NTS
BID NO 12.43221-TF
CLV DWG NO 715-175-1
SHT NO

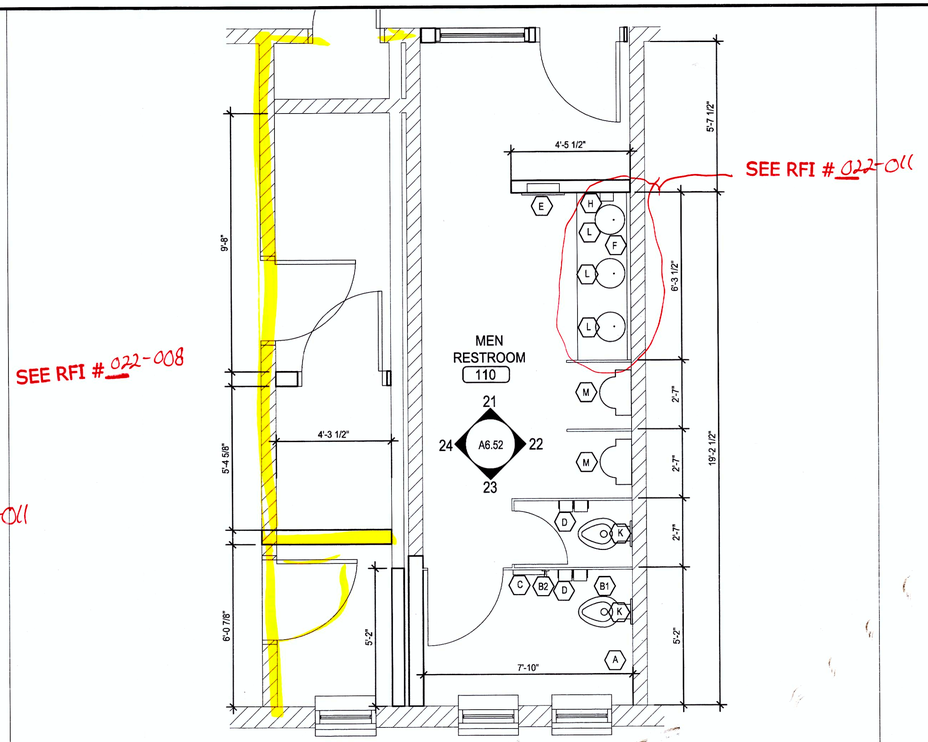
A4.02

REVISED 8/14/13



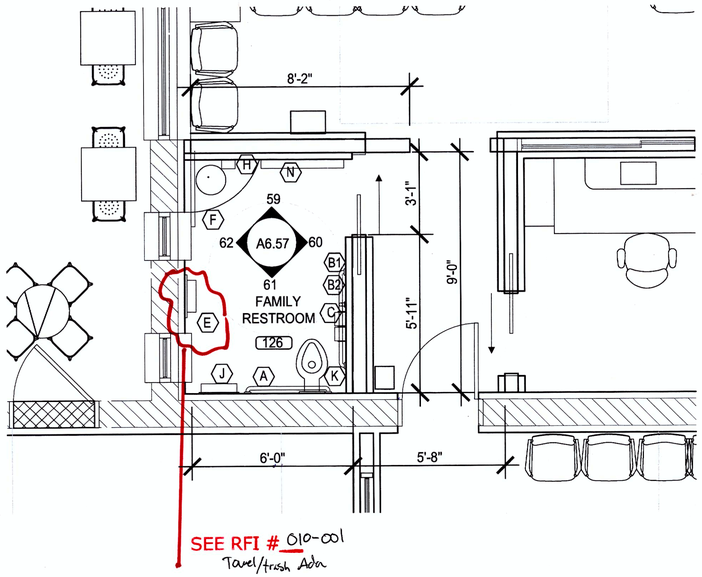
4 1923 ENLARGED WOMEN'S TOILET ROOM PLAN

FILE NAME: SEE RFI #022-010 SCALE: 1/4" = 1'-0"



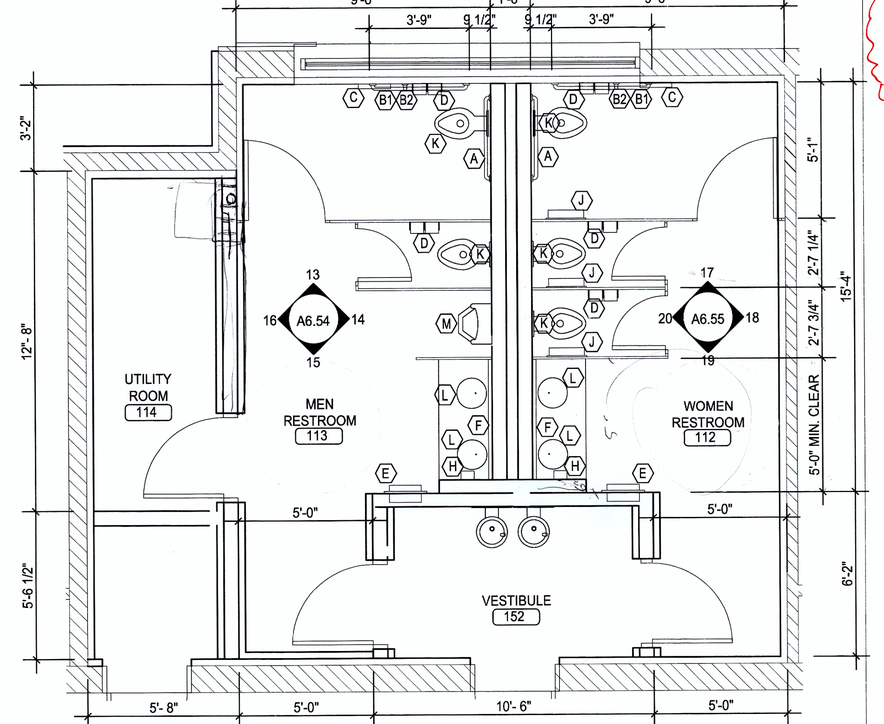
2 1923 ENLARGED MEN'S TOILET ROOM PLAN

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



3 1948 ENLARGED TOILET ROOM PLAN

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



1 1948 ENLARGED TOILET ROOM PLANS

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

GENERAL NOTES

1. SEE PLUMBING SHEETS FOR PLUMBING FIXTURE INFORMATION

ACCESSORY SCHEDULE

A	36" GRAB BAR
B1	42" HORIZONTAL GRAB BAR
B2	18" VERTICAL GRAB BAR
C	TOLIET-SEAT-COVER DISPENSER MODEL # B-3013
D	SURFACE MOUNTED TOILET TISSUE DISPENSER (ROLL TYPE)
E	PAPER TOWEL DISPENSER W/ WASTE RECEPTACLE MODEL # B-36903
F	MIRROR
G	HAND DRYER
H	SOAP DISPENSER MODEL# B-306
I	SHOWER STALL
J	SANITARY NAPKIN DISPOSAL MODEL # B-35303
K	WALL MOUNTED TOILET
L	LAVATORY
M	WALL MOUNTED URINAL
N	BABY CHANGING STATION

REVISIONS

1 PLAN CHECK REVISIONS - 9/4/14
2 PLAN CHECK REVISIONS - 10/7/14
3 PLAN CHECK REVISIONS - 12/3/14

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6765 WEST RUSSELL ROAD, SUITE 200
LAS VEGAS, NEVADA 89118
P: 702-889-2088 / F: 702-888-2089
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330 W. WASHINGTON AVE.
LAS VEGAS, NEVADA 89106

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BID NUMBER: 12.43221-TF

ENLARGED TOILET ROOM PLANS

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MELVIN D. GREEN REGISTERED No. 2249 ARCHITECT STATE OF NEVADA

AUGUST 4, 2014

CONSTRUCTION DOCUMENTS

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6535
FAX: (702) 382-3232
TDD: (702) 386-9108

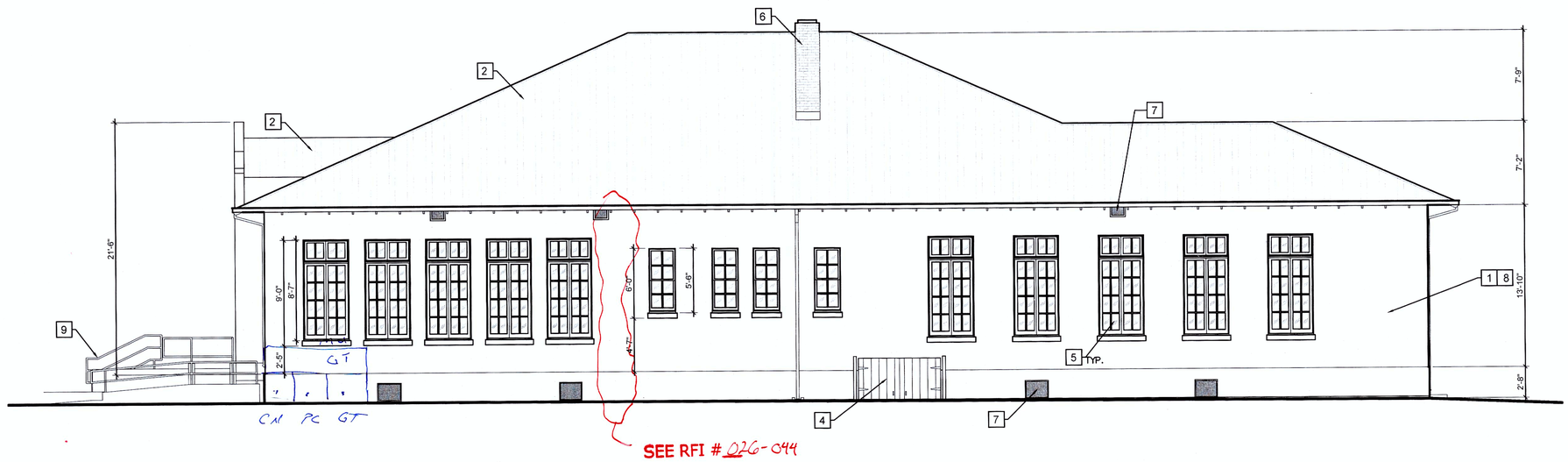
DRAWN L.R.
FILE 2012-007
DATE 08-11-2014
SCALE NTS
BID NO 12.43221-TF
CLV DWG NO 715-175-1
SHT NO

A5.01

REVISED 8/14/13

SOUTH ELEVATION 1

SCALE: 3/16" = 1'-0"



EAST ELEVATION 2

SCALE: 3/16" = 1'-0"

3/16" = 1'-0"

0' 1' 2' 4' 8'

KEYNOTES

1	REPAIR AND PAINT EXTERIOR PLASTER
2	INSPECT AND REPAIR STANDING SEAM METAL ROOFING
3	NEW EXTERIOR DOOR AND FRAME TO BE RECREATED TO MATCH ORIGINAL, PAINT.
4	REPAIR WOOD BASEMENT HATCH/ CELLAR DOOR AND FRAME, REPLACE IF REQUIRED
5	REPAIR AND PAINT EXTERIOR WINDOW AND FRAME
6	EXISTING CHIMNEY TO BE REPAIRED, REPAINTED AND BRACE FOR SEISMIC FORCES- SEE STRUCTURAL
7	REPLACE VENT SCREEN, TYP.
8	PROVIDE ELECTROMETRIC SCRIM COAT OVER EXTERIOR CONCRETE WALL, AND PAINT
9	NEW HANDRAIL

UNDER FLOOR VENTILATION CALCULATION

IBC 2009 SECTION 1203.3 UNDER FLOOR VENTILATION

PROVIDE 1 SF OF FLOOR VENTILATION PER 150 SF

CALCULATION:

	REQUIRED	PROVIDED
5835 SF / 150 =	38.9 SF	20 SF

PER IBC 2009 SECTION 3409.1 (HISTORIC BUILDINGS)

THE PROVISIONS OF THIS CODE RELATING TO THE CONSTRUCTION, REPAIR, ALTERATION, ADDITION, RESTORATION AND MOVEMENT OF STRUCTURE, AND CHANGES OF OCCUPANCY SHALL NOT BE MANDATORY FOR HISTORIC BUILDING WHERE SUCH BUILDING ARE JUDGED BY THE BUILDING OFFICIAL TO NOT CONSTITUTE A DISTINCT LIFE SAFETY HAZARD

REVISIONS

1 PLAN CHECK REVISIONS - 9/4/14

2 PLAN CHECK REVISIONS - 10/7/14

3 PLAN CHECK REVISIONS - 12/3/14

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P: 702-888-2088 / F: 702-888-2089
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CONSULTANT

WESTSIDE SCHOOL HISTORIC REHABILITATION

330 W. WASHINGTON AVE.
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1923 BUILDING - BUILDING ELEVATIONS

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OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6535
FAX: (702) 382-3232
TDD: (702) 386-9108

DRAWN L.R.

FILE 2012-007

DATE 08-11-2014

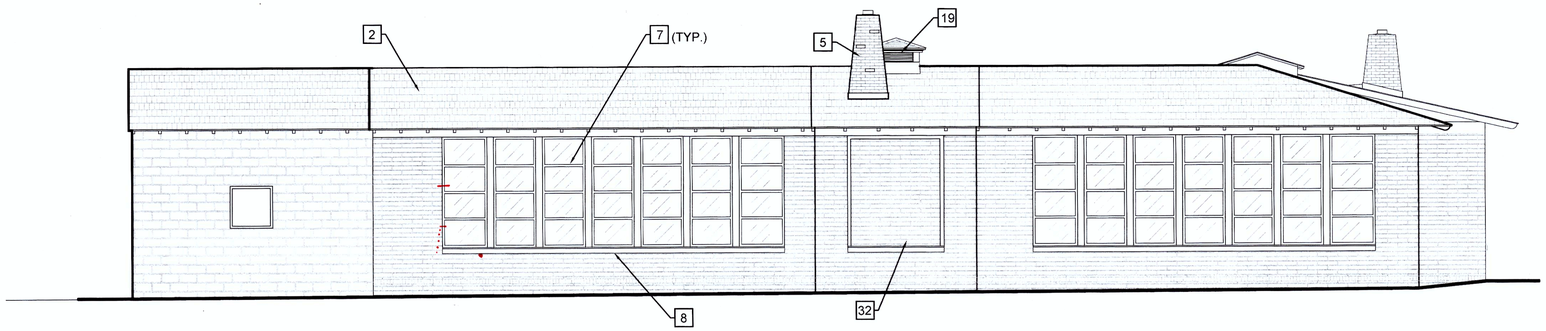
SCALE NTS

BID NO 12.43221-TF

CLV DWG NO 715-175-1

SHT NO A6.01

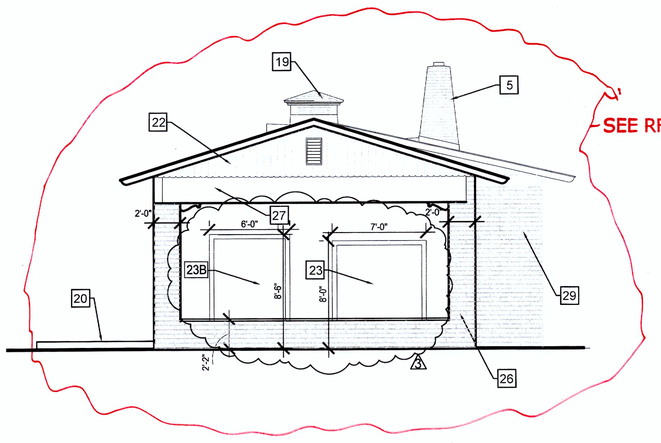
REVISED 8/14/13



1960 ADDITION

NORTH ELEVATION - 1948 ANNEX - NORTH BUILDING 1

SCALE: 3/16" = 1'-0"



SEE RFI # 004-008

EAST ELEVATION - 1948 ANNEX - NORTH BUILDING 2

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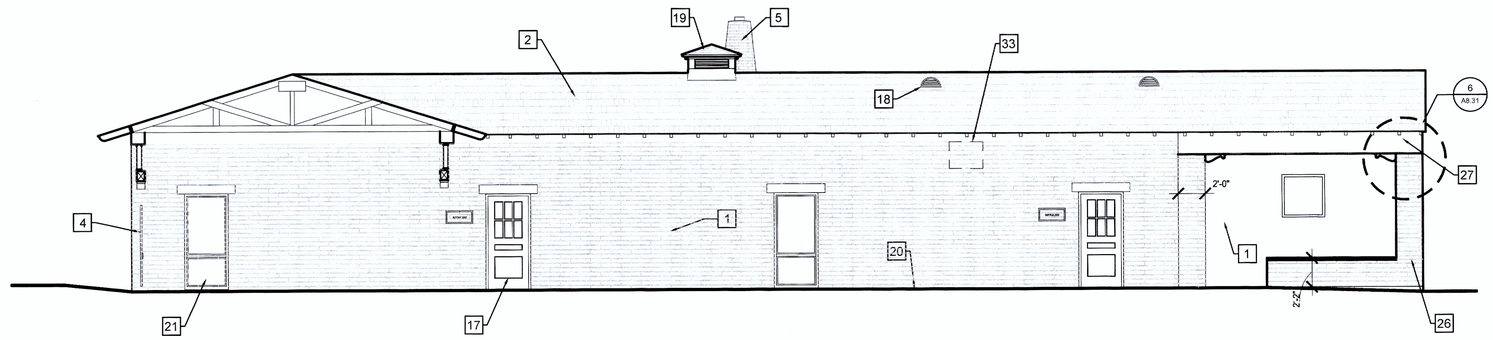

SOUTH ELEVATION - 1948 ANNEX - NORTH BUILDING 3

SCALE: 3/16" = 1'-0"

GENERAL NOTES

1. REPAIR WALLS WHERE DAMAGE FROM REMOVAL OF BOLTS FROM TRELLIS SYSTEM OCCUR.

KEYNOTES

1	REPAIR CRACKED AND SPALLING BRICK MASONRY AND SLUMP STONE, PAINT
2	ROOFING SPECIALIST TO INSPECT COMPOSITION SHINGLES, REPAIR AS REQUIRED
3	DECORATIVE WROUGHT IRON RAILING MOUNTED ON CONCRETE STEM WALL.
4	NEW METAL ORNAMENTAL DBL. GATE WITH PANIC HARDWARE AND WIRE MESH SCREEN ON THE INSIDE FACING COURTYARD
5	BRICK CHIMNEY TO BE BRACED FOR SEISMIC SUPPORT AND REPOINT. PROVIDE CAP.
6	REPAIR CLAY TILE ATTIC VENT
7	NEW 1" INSULATING GLASS STEEL WINDOWS TO MATCH EXISTING HISTORIC WINDOWS.
8	CONCRETE SILL TO BE REPAIRED
9	EXISTING METAL PLAQUE TO REMAIN
10	EXISTING METAL POST TO BE REPAIRED AS PAINTED
11	EXISTING CONCRETE STAIRS TO BE REMOVED AND REPLACED
12	BRICK SILL TO BE REPAIRED
13	WOOD RAFTER TAILS TO BE REPAIRED AND PAINTED
14	WOOD FASCIA BOARD TO BE REPAIRED AND PAINTED
15	NEW CONCRETE FOUNDATION
16	LIGHT FIXTURE TO BE REPAIRED AND MADE OPERABLE
17	EXTERIOR INSULATING STEEL PANEL DOOR
18	SHEET METAL ATTIC VENT TO BE REPAIRED
19	GABLED RIDGE VENTILATOR
20	NEW 4" CONCRETE SIDEWALK OVER COMPACTED SUB BASE
21	EXISTING STEEL WINDOW TO BE REPAIRED AND PAINTED
22	WOOD CLADDING TO REPAIRED STRIPPED, SAND AND PAINTED
23	ARTWORK TO BE RELOCATED FROM FRONT ENTRY SOUTH ELEVATION ON 2/ AD6.03
23B	ARTWORK TO BE RELOCATED FROM WEST SIDE PORCH ON 1 AD6.04.
24	ART WORK TO BE RELOCATED FROM EAST SIDE FRONT PORCH
25	DECORATIVE METAL RAILING
26	16" X 16" CMU SLUMP STONE COLUMN
27	WOOD BEAM TO MATCH EXISTING - STRUCTURAL FOR SIZE
28	PROVIDE BLOCK FILLER ON ALL CMU EXTERIOR WALL PRIOR TO PAINTING.
29	PAINTED CMU
30	EXISTING TILE MURALS TO REMAIN
31	NEW RAILING FOR STEPS PER CODE
32	REPLACE WITH SLUMP STONE TO MATCH EXISTING. RECESS 2" FROM FACE OF WALL.
33	PROVIDE SLUMP BLOCK TO MATCH EXISTING TO INFILL HVAC OPENING IN WALL.

3/16" = 1'-0"

0' 1' 2' 4' 8'

REVISIONS

- PLAN CHECK REVISIONS - 9/4/14
- PLAN CHECK REVISIONS - 10/7/14
- PLAN CHECK REVISIONS - 12/3/14

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LAS VEGAS, NEVADA 89118
P: 702-888-2098 / F: 702-888-2089
WEB: www.kmearchitects.com

CONSULTANT

WESTSIDE SCHOOL HISTORIC REHABILITATION

330 W. WASHINGTON AVE.
LAS VEGAS, NEVADA 89106

BID NUMBER: 12.43221-TF

CLV PLANS LIBRARY NUMBER: 715-175-1

1948 ANNEX - BUILDING ELEVATIONS

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MELVIN D. GREEN REGISTERED No. 2249 ARCHITECT STATE OF NEVADA

AUGUST 4, 2014

CONSTRUCTION DOCUMENTS

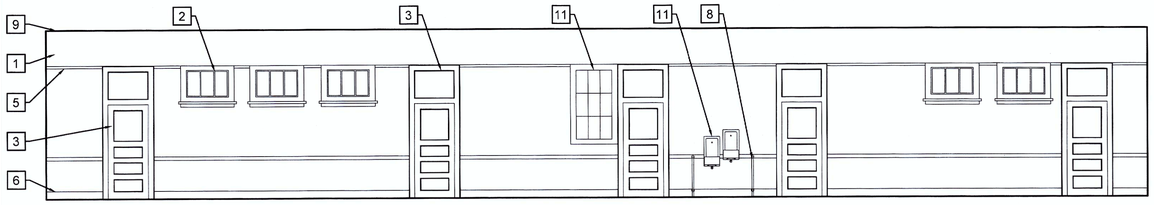
OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6535
FAX: (702) 382-3232
TDD: (702) 386-9108

DRAWN L.R.
FILE 2012-007
DATE 08-11-2014
SCALE NTS
BID NO 12.43221-TF
CLV DWG NO 715-175-1
SHT NO

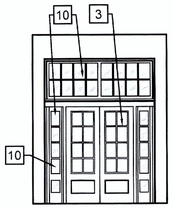
A6.03

REVISED 8/14/13



INT. ELEV. 13

SCALE: 3/16" = 1'-0"



INT. ELEV. 14

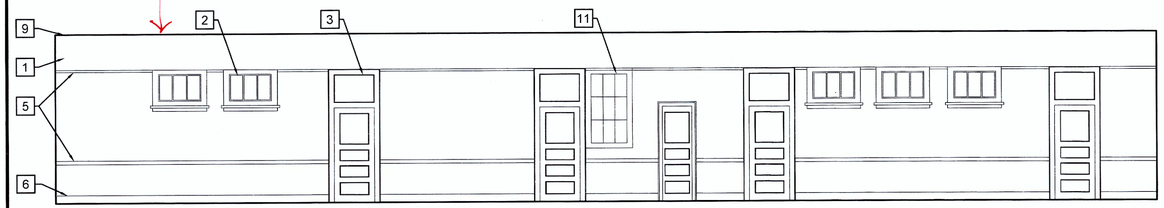
SCALE: 3/16" = 1'-0"

SEE RFI #006-031

KEYNOTES

1	EXISTING AND NEW GYPSUM BOARD WALL, PLASTER WALL MAY OCCUR
2	NEW WINDOW AND FRAMING. RECONSTRUCT TO MATCH HISTORIC WINDOWS
3	NEW DOOR AND FRAME. RECONSTRUCT TO MATCH HISTORIC PHOTOS
4	NEW TILE WALL TREATMENT
5	INSTALL WALL TRIM TO MATCH EXISTING
6	INSTALL WOOD BASEBOARD TO MATCH EXISTING AND OR REPAIR EXISTING BASE
7	NEW TOILET AND URINAL
8	NEW HANDRAIL GRAB BAR
9	REPAIR AND PAINT EXISTING PLASTER CEILING
10	REPAIR AND PAINT EXISTING WINDOWS
11	OBSCURE 1/4" THICK GLAZING
12	METAL TOILET PARTITIONS
13	5/8" BACKER BOARD
14	REPAIR AND REPAINT HISTORIC CABINETS
15	ADA DRINKING FOUNTAIN

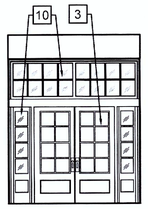
SEE RFI #008-006
008-007



INT. ELEV. 15

SCALE: 3/16" = 1'-0"

SEE RFI #009-010



INT. ELEV. 16

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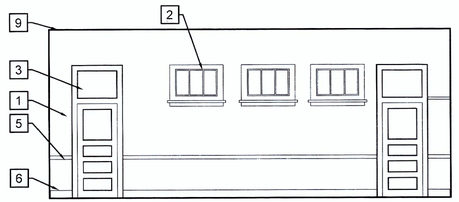
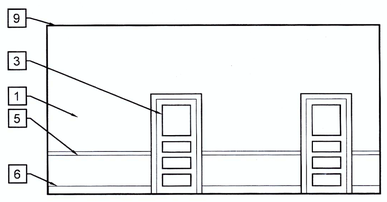


INT. ELEV. 17

SCALE: 3/16" = 1'-0"



INT. ELEV. 18

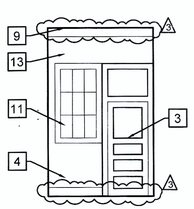
SCALE: 3/16" = 1'-0"

INT. ELEV. 19

SCALE: 3/16" = 1'-0"

INT. ELEV. 20

SCALE: 3/16" = 1'-0"

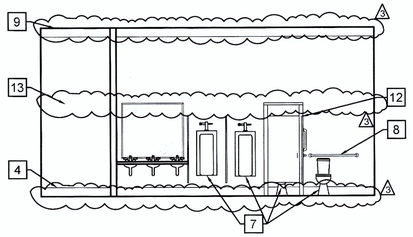


INT. ELEV. 21

SCALE: 3/16" = 1'-0"

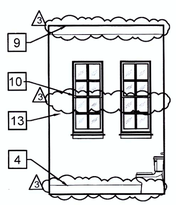
SEE RFI #009-006

SEE RFI #009-010



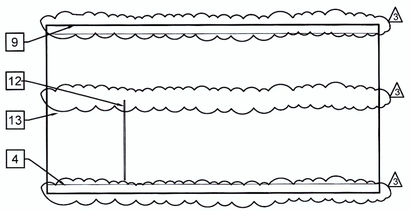
INT. ELEV. 22

SCALE: 3/16" = 1'-0"



INT. ELEV. 23

SCALE: 3/16" = 1'-0"



INT. ELEV. 24

SCALE: 3/16" = 1'-0"

SEE RFI #026-041

REVISIONS

1 PLAN CHECK REVISIONS - 9/4/14

2 PLAN CHECK REVISIONS - 10/7/14

3 PLAN CHECK REVISIONS - 12/3/14

ARCHITECT

kme ARCHITECTS

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6785 WEST RUSSELL ROAD, SUITE 200
LAS VEGAS, NEVADA 89118
P: 702-888-2088 / F: 702-888-2089
WEB: www.kmearchitects.com

CONSULTANT

WESTSIDE SCHOOL HISTORIC REHABILITATION

330 W. WASHINGTON AVE.
LAS VEGAS, NEVADA 89106

CLV PLANS LIBRARY NUMBER: 715-175-1

BID NUMBER: 12.43221-TF

1923 BUILDING - INTERIOR ELEVATIONS

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MELVIN D. GREEN REGISTERED No. 2249 ARCHITECT STATE OF NEVADA

AUGUST 4, 2014

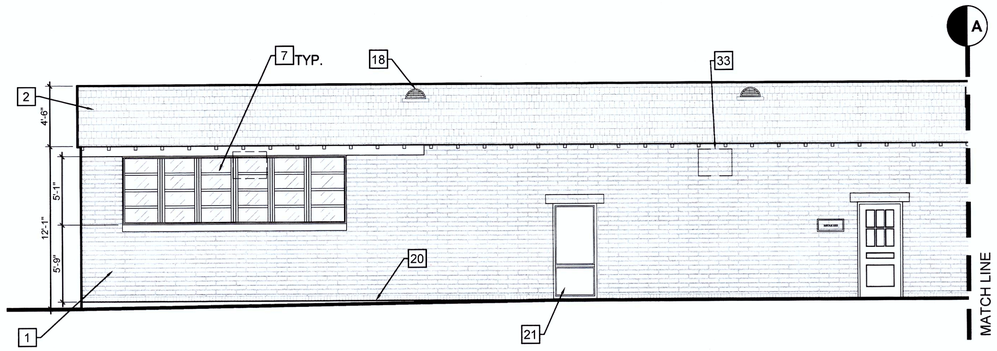
CONSTRUCTION DOCUMENTS

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6535
FAX: (702) 382-3232
TDD: (702) 386-9108

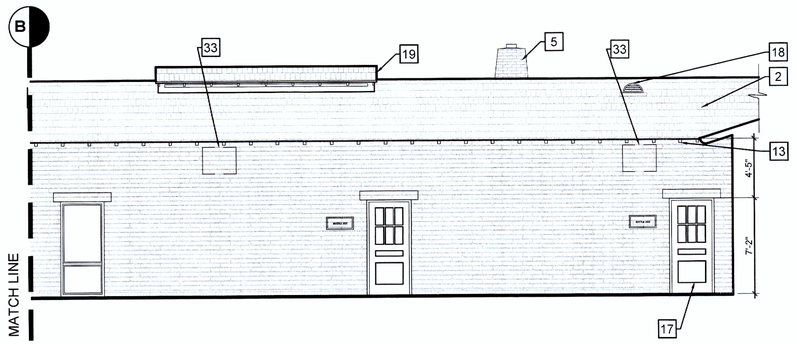
DRAWN	L.R.
FILE	2012-007
DATE	08-11-2014
SCALE	NTS
BID NO	12.43221-TF
CLV DWG NO	715-175-1
SHT NO	A6.52

REVISED 8/14/13



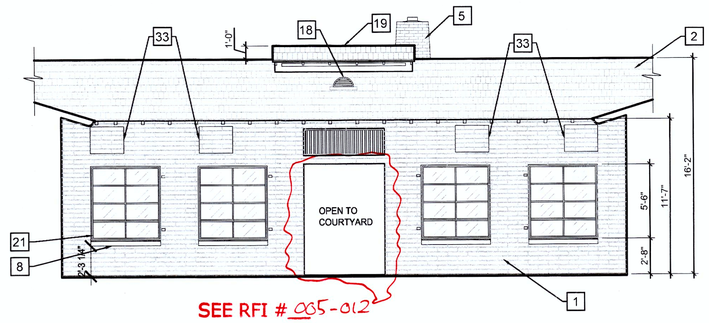
WEST ELEVATION - 1948 ANNEX - EAST BUILDING 1

SCALE: 3/16" = 1'-0"



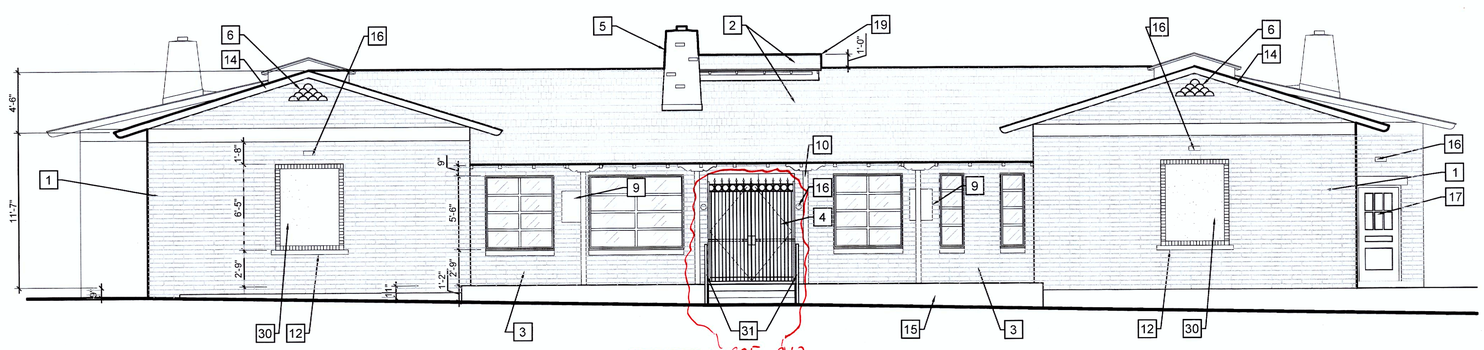
WEST ELEVATION - 1948 ANNEX - EAST BUILDING CONT'D 2

SCALE: 3/16" = 1'-0"



NORTH ELEVATION - 1948 ANNEX - SOUTH BUILDING 3

SCALE: 3/16" = 1'-0"



SOUTH ELEVATION - 1948 ANNEX - SOUTH BUILDING 4

SCALE: 3/16" = 1'-0"

3/16" = 1'-0"

0' 1' 2' 4' 8'

GENERAL NOTES

1. REPAIR WALLS WHERE DAMAGE FROM REMOVAL OF BOLTS FROM TRELLIS SYSTEM OCCUR.

KEYNOTES

1	REPAIR CRACKED AND SPALLING BRICK MASONRY AND SLUMP STONE, PAINT
2	ROOFING SPECIALIST TO INSPECT COMPOSITION SHINGLES, REPAIR AS REQUIRED
3	DECORATIVE WROUGHT IRON RAILING MOUNTED ON CONCRETE STEM WALL.
4	NEW METAL ORNAMENTAL DBL. GATE WITH PANIC HARDWARE AND WIRE MESH SCREEN ON THE INSIDE FACING COURTYARD
5	BRICK CHIMNEY TO BE BRACED FOR SEISMIC SUPPORT AND REPOINT. PROVIDE CAP.
6	REPAIR CLAY TILE ATTIC VENT
7	NEW 1" INSULATING GLASS STEEL WINDOWS TO MATCH EXISTING HISTORIC WINDOWS.
8	CONCRETE SILL TO BE REPAIRED
9	EXISTING METAL PLAQUE TO REMAIN
10	EXISTING METAL POST TO BE REPAIRED AS PAINTED
11	EXISTING CONCRETE STAIRS TO BE REMOVED AND REPLACED
12	BRICK SILL TO BE REPAIRED
13	WOOD RAFTER TAILS TO BE REPAIRED AND PAINTED
14	WOOD FASCIA BOARD TO BE REPAIRED AND PAINTED
15	NEW CONCRETE FOUNDATION
16	LIGHT FIXTURE TO BE REPAIRED AND MADE OPERABLE
17	EXTERIOR INSULATING STEEL PANEL DOOR
18	SHEET METAL ATTIC VENT TO BE REPAIRED
19	GABLED RIDGE VENTILATOR
20	NEW 4" CONCRETE SIDEWALK OVER COMPACTED SUB BASE
21	EXISTING STEEL WINDOW TO BE REPAIRED AND PAINTED
22	WOOD CLADDING TO REPAIRED STRIPPED, SAND AND PAINTED
23	ARTWORK TO BE RELOCATED FROM FRONT ENTRY SOUTH ELEVATION ON 2/ AD6.03
23B	ARTWORK TO BE RELOCATED FROM WEST SIDE PORCH ON 1 AD6.04.
24	ART WORK TO BE RELOCATED FROM EAST SIDE FRONT PORCH
25	DECORATIVE METAL RAILING
26	16" X 16" CMU SLUMP STONE COLUMN
27	WOOD BEAM TO MATCH EXISTING - STRUCTURAL FOR SIZE
28	PROVIDE BLOCK FILLER ON ALL CMU EXTERIOR WALL PRIOR TO PAINTING.
29	PAINTED CMU
30	EXISTING TILE MURALS TO REMAIN
31	NEW RAILING FOR STEPS PER CODE
32	REPLACE WITH SLUMP STONE TO MATCH EXISTING. RECESS 2" FROM FACE OF WALL.
33	PROVIDE SLUMP BLOCK TO MATCH EXISTING TO INFILL HVAC OPENING IN WALL.

REVISIONS

- PLAN CHECK REVISIONS - 9/4/14
- PLAN CHECK REVISIONS - 10/7/14
- PLAN CHECK REVISIONS - 12/3/14

ARCHITECT
kme ARCHITECTS
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8765 WEST RUSSELL ROAD, SUITE 200
LAS VEGAS, NEVADA 89118
P: 702-888-2088 / F: 702-888-2089
WEB www.kmearchitects.com
CONSULTANT

WESTSIDE SCHOOL HISTORIC REHABILITATION

330 W. WASHINGTON AVE.
LAS VEGAS, NEVADA 89106

BID NUMBER: 12.43221-TF

CLV PLANS LIBRARY NUMBER: 715-175-1

1948 ANNEX - BUILDING ELEVATIONS

STAMP

MELVIN D. GREEN REGISTERED No. 2249 ARCHITECT STATE OF NEVADA

AUGUST 4, 2014

CONSTRUCTION DOCUMENTS

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6535
FAX: (702) 382-3232
TDD: (702) 386-9108

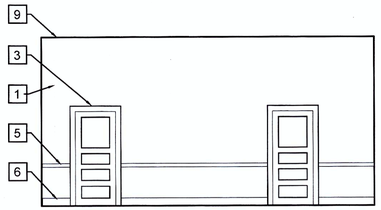
DRAWN	L.R.
FILE	2012-007
DATE	08-11-2014
SCALE	NTS
BID NO	12.43221-TF
CLV DWG NO	715-175-1
SHT NO	

A6.05

REVISED 8/14/13

INT. ELEV. 1

SCALE: 3/16" = 1'-0"



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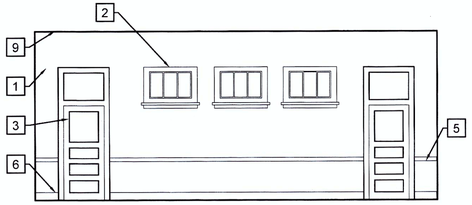
SCALE: 3/16" = 1'-0"



SEE RFI #008-009
008-006

INT. ELEV. 3

SCALE: 3/16" = 1'-0"

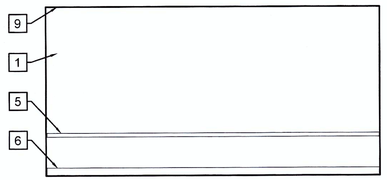
SEE RFI #006-031

KEYNOTES

1	EXISTING AND NEW GYPSUM BOARD WALL, PLASTER WALL MAY OCCUR
2	NEW WINDOW AND FRAMING. RECONSTRUCT TO MATCH HISTORIC WINDOWS
3	NEW DOOR AND FRAME. RECONSTRUCT TO MATCH HISTORIC PHOTOS
4	NEW TILE WALL TREATMENT
5	INSTALL WALL TRIM TO MATCH EXISTING
6	INSTALL WOOD BASEBOARD TO MATCH EXISTING AND OR REPAIR EXISTING BASE
7	NEW TOILET AND URINAL
8	NEW HANDRAIL GRAB BAR
9	REPAIR AND PAINT EXISTING PLASTER CEILING
10	REPAIR AND PAINT EXISTING WINDOWS
11	OBSCURE 1/4" THICK GLAZING
12	METAL TOILET PARTITIONS
13	5/8" BACKER BOARD
14	REPAIR AND REPAINT HISTORIC CABINETS
15	ADA DRINKING FOUNTAIN

1948 & 1923 Building
Countertop Support
Brackets.

SEE RFI #009-002



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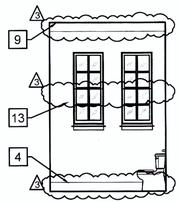
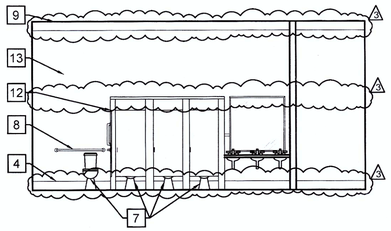


INT. ELEV. 5

SCALE: 3/16" = 1'-0"

SEE RFI #009-010



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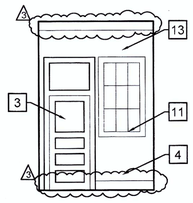

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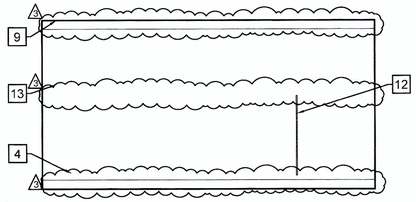
SCALE: 3/16" = 1'-0"

SEE RFI #009-006
008-007

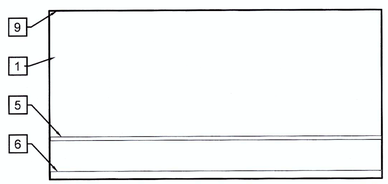


INT. ELEV. 8

SCALE: 3/16" = 1'-0"

INT. ELEV. 9

SCALE: 3/16" = 1'-0"



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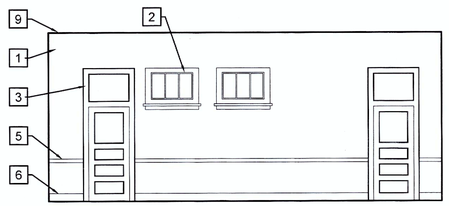

SEE RFI #009-006
008-007

INT. ELEV. 11

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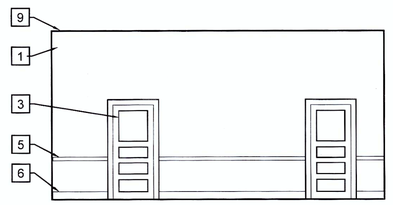

INT. ELEV. 12

SCALE: 3/16" = 1'-0"

SEE RFI #026-041

REVISIONS

1 PLAN CHECK REVISIONS - 9/4/14

1 PLAN CHECK REVISIONS - 10/7/14

1 PLAN CHECK REVISIONS - 12/3/14

ARCHITECT

kme ARCHITECTS

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6765 WEST RUSSELL ROAD, SUITE 200
LAS VEGAS, NEVADA 89118
p: 702-968-2066 / f: 702-888-2069
WEB: www.kmearchitects.com

CONSULTANT

WESTSIDE SCHOOL HISTORIC REHABILITATION

330 W. WASHINGTON AVE.
LAS VEGAS, NEVADA 89106

BID NUMBER: 12.43221-TF

CLV PLANS LIBRARY NUMBER: 715-175-1

1923 BUILDING - INTERIOR ELEVATIONS

STAMP

MELVIN D. GREEN REGISTERED No. 2249 ARCHITECT STATE OF NEVADA

AUGUST 4, 2014

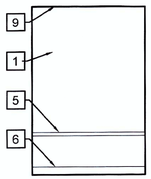
CONSTRUCTION DOCUMENTS

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6535
FAX: (702) 382-3232
TDD: (702) 386-9108

DRAWN	L.R.
FILE	2012-007
DATE	08-11-2014
SCALE	NTS
BID NO	12.43221-TF
CLV DWG NO	715-175-1
SHT NO	A6.51

REVISED 8/14/13



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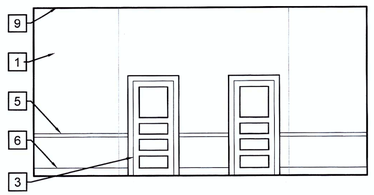

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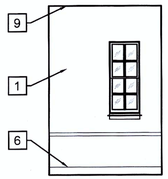

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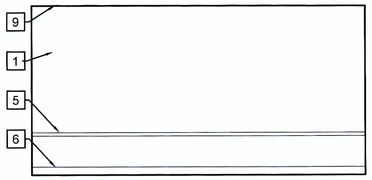

INT. ELEV. 28

SCALE: 3/16" = 1'-0"

SEE RFI # 026-031 →

KEYNOTES

1	EXISTING AND NEW GYPSUM BOARD WALL, PLASTER WALL MAY OCCUR
2	NEW WINDOW AND FRAMING. RECONSTRUCT TO MATCH HISTORIC WINDOWS
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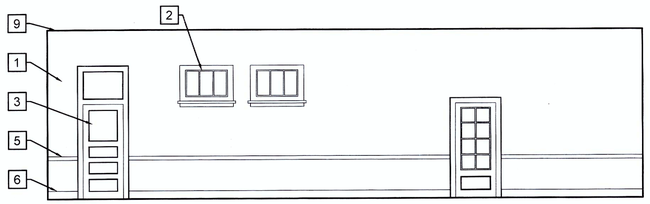
15	ADA DRINKING FOUNTAIN



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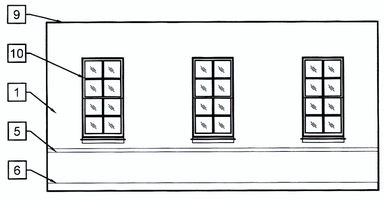
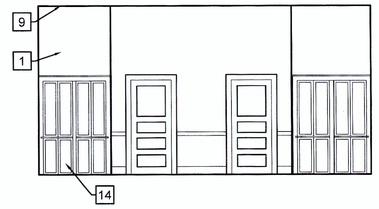


INT. ELEV. 30

SCALE: 3/16" = 1'-0"

INT. ELEV. 31

SCALE: 3/16" = 1'-0"



INT. ELEV. 32

SCALE: 3/16" = 1'-0"

SEE RFI # 026-041

REVISIONS

- PLAN CHECK REVISIONS - 9/4/14
- PLAN CHECK REVISIONS - 10/7/14
- PLAN CHECK REVISIONS - 12/3/14

ARCHITECT

kme ARCHITECTS

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6765 WEST RUSSELL ROAD, SUITE 200
LAS VEGAS, NEVADA 89118
P: 702-888-2088 / F: 702-888-2089
WEB: www.kmearchitects.com

CONSULTANT

WESTSIDE SCHOOL HISTORIC REHABILITATION

330 W. WASHINGTON AVE.
LAS VEGAS, NEVADA 89106

BID NUMBER: 12.43221-TF

CLV PLANS LIBRARY NUMBER: 715-175-1

1923 BUILDING - INTERIOR ELEVATIONS

STAMP

MELVIN D. GREEN REGISTERED No. 2349 ARCHITECT STATE OF NEVADA

AUGUST 4, 2014

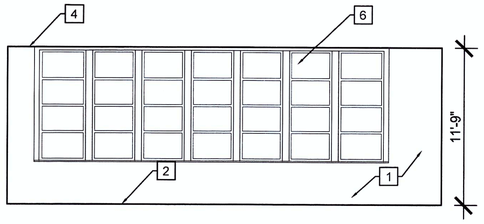
CONSTRUCTION DOCUMENTS

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6535
FAX: (702) 382-3232
TDD: (702) 386-9108

DRAWN	L.R.
FILE	2012-007
DATE	08-11-2014
SCALE	NTS
BID NO	12.43221-TF
CLV DWG NO	715-175-1
SHT NO	A6.53

REVISED 8/14/13



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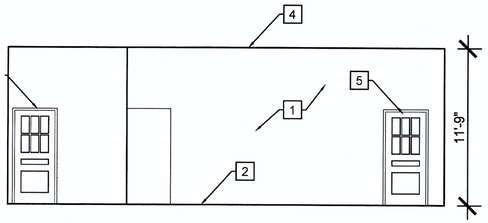

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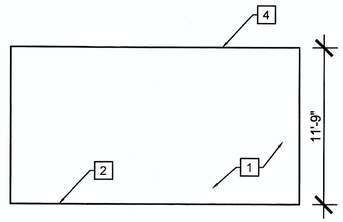
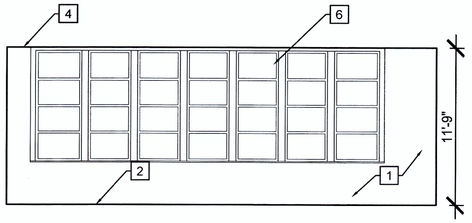


INT. ELEV. 3

SCALE: 3/16" = 1'-0"

1948 & 1923 Building Counter top Support Brackets

SEE RFI # 009-002



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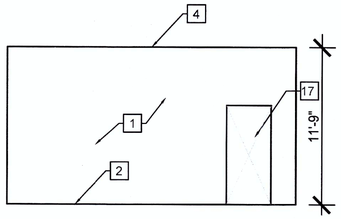

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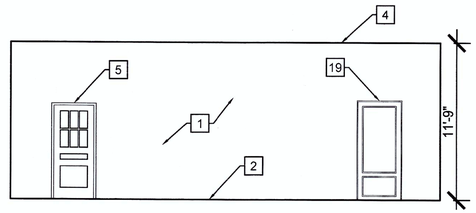

INT. ELEV. 6

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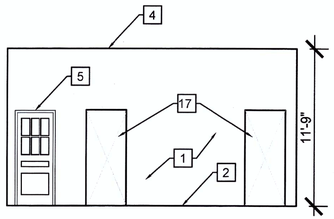

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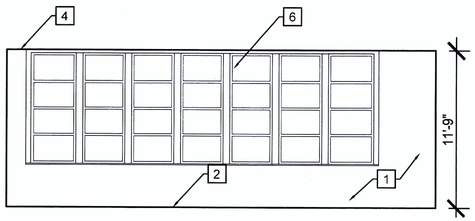

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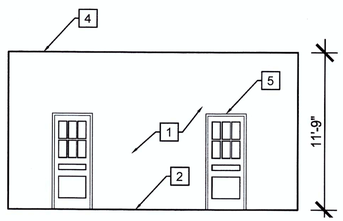

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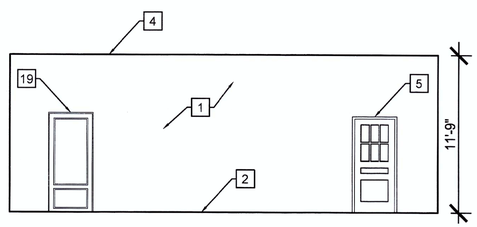

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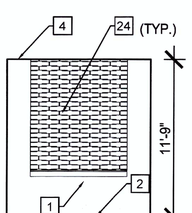

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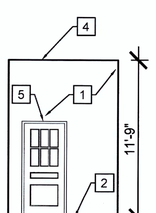

INT. ELEV. 12

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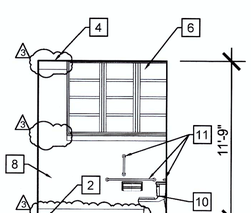

INT. ELEV. 13

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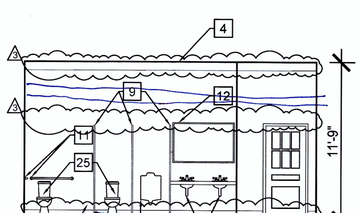
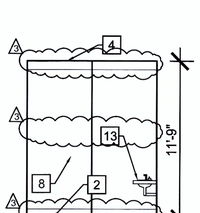


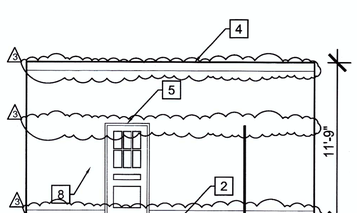
INT. ELEV. 14

SCALE: 3/16" = 1'-0"



INT. ELEV. 15

SCALE: 3/16" = 1'-0"



INT. ELEV. 16

SCALE: 3/16" = 1'-0"

3/16" = 1'-0"

0' 1' 2' 4' 8'

KEYNOTES

1	REPAIR EXISTING FURRED OUT WALLS
2	NEW 4" THICK CONCRETE SLAB OVER COMPACTED FILL
3	NEW LAY- IN ACOUSTICAL CEILING
4	REPAIR AND PAINT EXISTING PLASTER CEILING
5	INTERIOR GRADE WOOD PANEL DOOR
6	NEW 1" INSULATING STEEL WINDOW TO MATCH EXISTING HISTORIC WINDOWS
7	EXISTING SLUMP BLOCK WALL TO BE REPAIRED AND PAINTED
8	CERAMIC TILE OVER 5/8" DUROCK BOARD
9	METAL TOILET PARTITION
10	REPAIR AND PAINT EXISTING WINDOWS
11	HANDICAPPED GRAB BAR
12	3'-0" HIGH MIRROR ABOVE SINK
13	SINK, FAUCET AND COUNTERTOP
14	URINAL WITH 2'-0" x 3'-0" PARTITION SCREEN
15	ANIT-STATIC FLOORING OR TILE
16	COMMERCIAL GRADE LOOP PILE CARPET
17	REUSE EXISTING SLUMP STONE FROM WINDOW OPENINGS TO ENCLOSE DOOR / WALL OPENING, PAINT.
18	5/8" "TYPE X" GYPSUM BOARD PAINTED
19	EXISTING STEEL WINDOW TO BE PAINTED
20	STOREFRONT GLASS PARTITION WALL
21	DECORATIVE METAL RAILING
22	18" X 18" CMU SLUMP STONE COLUMN
23	WOOD BEAM TO MATCH EXISTING
24	SLUMP STONE
25	NEW TOILET
26	STOREFRONT GLASS DOOR

REVISIONS

1 PLAN CHECK REVISIONS - 9/4/14

2 PLAN CHECK REVISIONS - 10/7/14

3 PLAN CHECK REVISIONS - 12/3/14

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LAS VEGAS, NEVADA 89118
P: 702.998.2345 F: 702.998.2089
WEB: www.kmearchitects.com

CONSULTANT

WESTSIDE SCHOOL HISTORIC REHABILITATION

330 W. WASHINGTON AVE.
LAS VEGAS, NEVADA 89106

BID NUMBER: 12.43221-TF

CLV PLANS LIBRARY NUMBER: 715-175-1

1948 ANNEX - INTERIOR ELEVATIONS

STAMP

MELVIN D. GREEN REGISTERED No. 2249 ARCHITECT STATE OF NEVADA

AUGUST 4, 2014

CONSTRUCTION DOCUMENTS

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

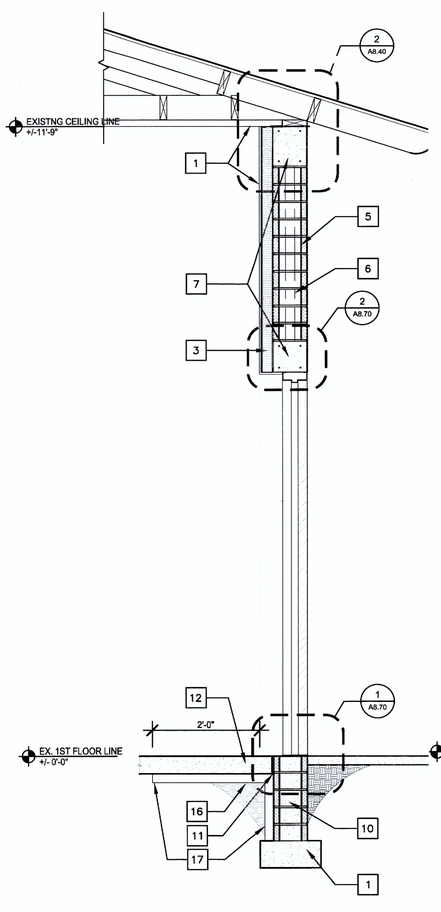
400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6535
FAX: (702) 382-3232
TDD: (702) 386-9108

DRAWN	L.R.
FILE	2012-007
DATE	08-11-2014
SCALE	NTS
BID NO	12.43221-TF
CLV DWG NO	715-175-1
SHT NO	A6.54

REVISED 8/14/13

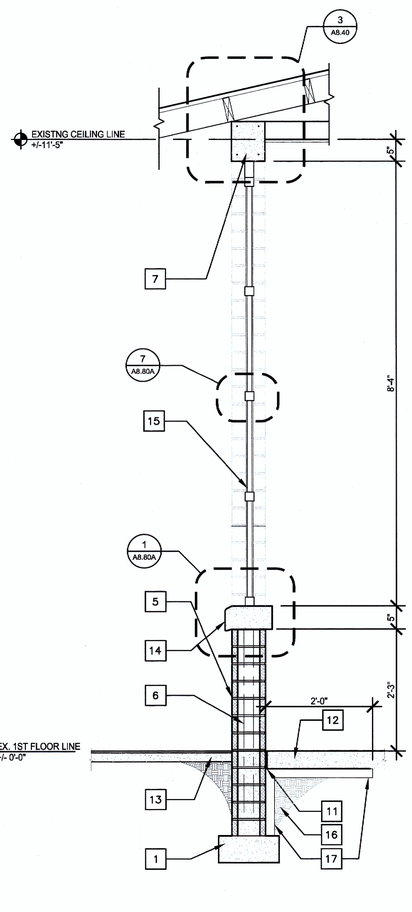
KEYNOTES

1	CONCRETE FOOTING
2	5/8" GYPSUM BOARD
3	2 1/2" METAL STUD WALL WITH RIGID INSULATION PER WALL TYPE
4	3 5/8" 33 MIL METAL STUD WALL, PER WALL TYPE
5	8X4X16 SLUMP BLOCK - EXISTING
6	VERTICAL REINFORCEMENT BAR @ 48" O.C.
7	CONCRETE LINTEL
8	7/8" STUCCO
9	EXISTING ASPHALT ROOF SYSTEM
10	FILL CORE WITH CEMENT
11	EXPANSION JOINT
12	4" CONCRETE SLAB
13	EXISTING CONCRETE SIDEWALK
14	CONCRETE SILL
15	EXISTING FIXED WINDOW
16	2" OF MOIST SAND, 10" LAYER OF AGGREGATE BASE , AND VAPOR BARRIER , PER THE SOIL REPORT
17	2" STYROFOAM PERIMETER INSULATION @ SLAB AND FOOTING (24" IN LENGTH)



WALL SECTION 1

SCALE: 3/4" = 1'-0"



WALL SECTION 2

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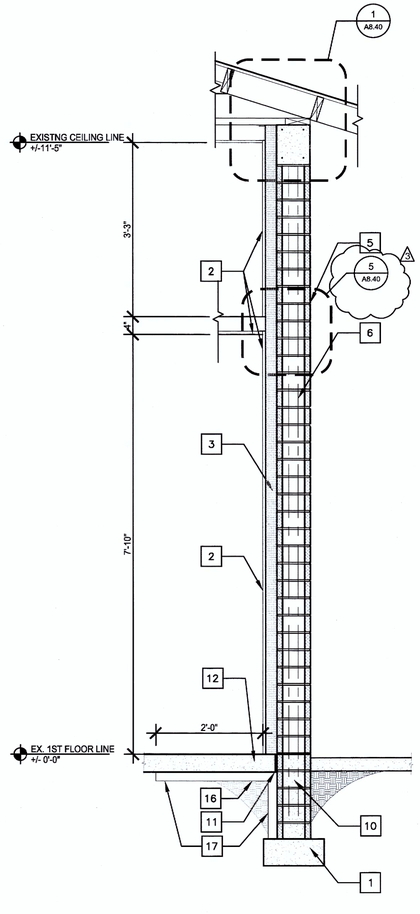
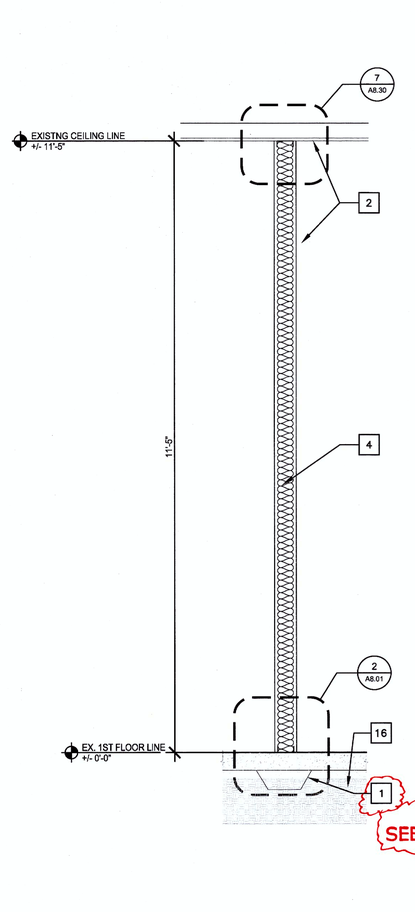


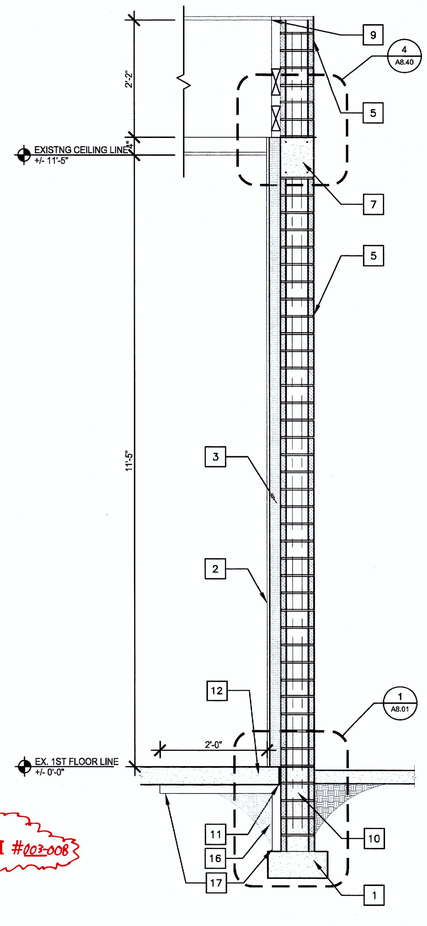
WALL SECTION 3

SCALE: 3/4" = 1'-0"



WALL SECTION 4

SCALE: 3/4" = 1'-0"



WALL SECTION 5

SCALE: 3/4" = 1'-0"

REVISIONS

1 PLAN CHECK REVISIONS - 9/4/14

2 PLAN CHECK REVISIONS - 10/7/14

3 PLAN CHECK REVISIONS - 12/3/14

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LAS VEGAS, NEVADA 89118
P: 702-868-2088 / F: 702-868-2089
WEB: www.kmearchitects.com

CONSULTANT

WESTSIDE SCHOOL HISTORIC REHABILITATION

330 W. WASHINGTON AVE.
LAS VEGAS, NEVADA 89106

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BID NUMBER: 12.43221-TF

1948 ANNEX - WALL SECTIONS

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400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6535
FAX: (702) 382-3232
TDD: (702) 386-9108

DRAWN L.R.

FILE 2012-007

DATE 08-11-2014

SCALE NTS

BID NO 12.43221-TF

CLV DWG NO 715-175-1

SHT NO

A7.52

REVISED 8/14/13

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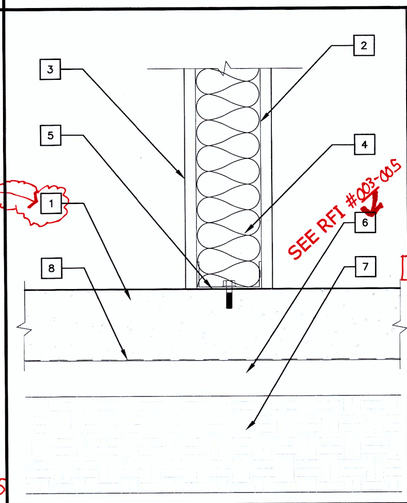


KEYNOTES	
1	4" CONCRETE SLAB
2	3 5/8" 20 GA. METAL STUD WALL, PER WALL TYPE.
3	5/8" GYPSUM BOARD
4	SOUND BATT INSULATION
5	6" METAL TRACK
6	2" MOIST SAND
7	10" OR MORE OF TYPE II AGGREGATE BASE COMPACTED TO 90% PER (ASTM D 1557).
8	IMPERVIOUS MEMBRANE, CONSISTING OF VISQUEEN, 15 OR MORE MILS IN THICKNESS, OR APPROPRIATE EQUIVALENT

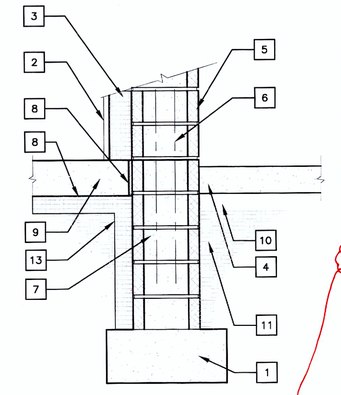
SEE RFI #003-005

2 INTERIOR WALL DETAIL @ SLAB

FILE NAME: SCALE: 3" = 1'-0"

7

4



KEYNOTES	
1	CONCRETE FOOTING
2	5/8" GYPSUM BOARD
3	2 1/2" METAL STUD WALL W/ RIGID INSULATION
4	EXISTING CONCRETE SIDEWALK
5	8X4X16 SLUMP BLOCK
6	EXISTING VERTICAL REINFORCEMENT
7	EXISTING FOOTING
8	JOINT. SEE STRUCTURAL
9	CONCRETE SLAB
10	2" MOIST SAND
11	10" OR MORE OF TYPE II AGGREGATE BASE COMPACTED TO 90% PER (ASTM D 1557).
12	IMPERVIOUS MEMBRANE, CONSISTING OF VISQUEEN, 15 OR MORE MILS IN THICKNESS, OR APPROPRIATE EQUIVALENT
13	2" STYROFOAM PERIMETER INSULATION @ SLAB AND FOOTING (24" IN LENGTH)

1 CONCRETE FOOTING

FILE NAME: SCALE: 1 1/2" = 1'-0"

REVISIONS

1 PLAN CHECK REVISIONS - 9/4/14

2 PLAN CHECK REVISIONS - 10/7/14

3 PLAN CHECK REVISIONS - 12/3/14

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LAS VEGAS, NEVADA 89118
P: 702-888-2088 / F: 702-888-2089
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WESTSIDE SCHOOL HISTORIC REHABILITATION

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FOUNDATION AND SLAB DETAILS

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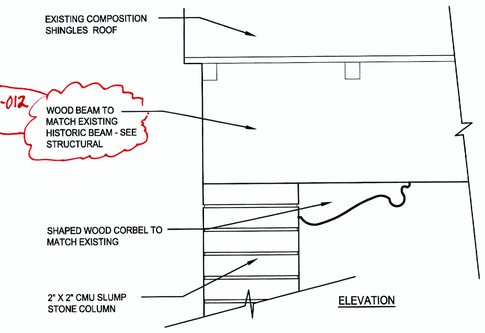
400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6535
FAX: (702) 382-3232
TDD: (702) 386-9108

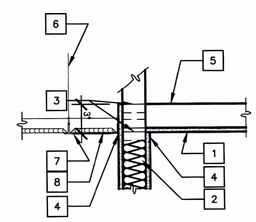
DRAWN	L.R.
FILE	2012-007
DATE	08-11-2014
SCALE	NTS
BID NO	12.43221-TF
CLV DWG NO	715-175-1
SHT NO	A8.01

REVISED 8/14/13

9

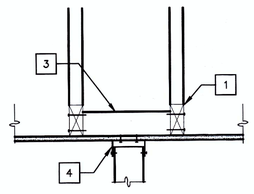


6 PORCH ROOF DETAIL
FILE NAME: SCALE: 1" = 1'-0"



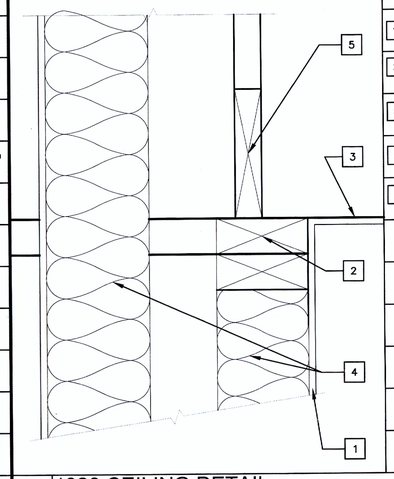
3 CEILING DETAIL- ACT. GYP. AT STUD WALL
FILE NAME: SCALE: 1 1/2" = 1'-0"

KEYNOTES	
1	5/8" TYPE 'X' GYP. BD.
2	STUD WALL W/ SOUND ATTENUATION INSUL. SEE WALL TYPES
3	MTL STUD TOP TRACK
4	METAL STUDS ATTACHED TO BLOCKING W/#8 SCREWS
5	EXISTING ROOF JOIST
6	12 GA. HANGER WIRES @ 4'-0" O.C. MAX. SECURED TO STRUCTURE ABOVE. SEE DETAIL 3/A3.10
7	METAL "T" RUNNERS.
8	ACOUSTICAL CEILING PANELS.
4	2" CLOSURE ANGLE



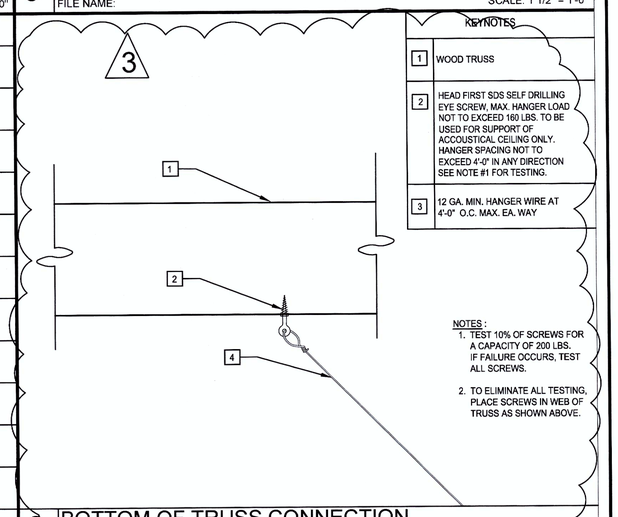
KEYNOTES	
1	EXISTING CEILING JOIST WITH EXISTING CEILING FINISH
2	METAL STUD PER SCHEDULE
3	2 X 4 BLOCKING AT 16" O.C.
4	DEEP LEG TRACK W (2) #10 SCREWS TO EACH BLOCK

8 NON- BEARING STUDS AT CEILING FRAMING
FILE NAME: SCALE: 1 1/2" = 1'-0"



KEYNOTES	
1	5/8" TYPE 'X' GYP. BD. ON WOOD STUD
2	2 X 4 WOOD TOP PLATE
3	EXISTING PLASTER CEILING
4	2 X 4 WOOD STUD WALL W/ SOUND INSULATION
5	EXISTING TRUSS SYSTEM

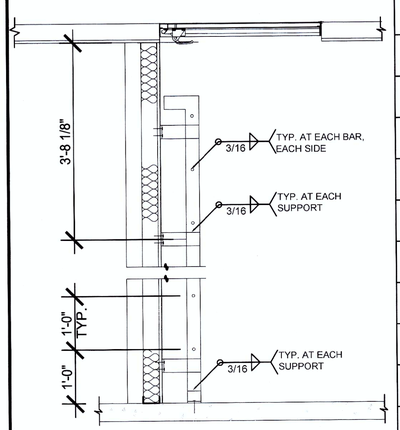
5 1923 CEILING DETAIL
FILE NAME: SCALE: 3" = 1'-0"



KEYNOTES	
1	WOOD TRUSS
2	HEAD FIRST SDS SELF DRILLING EYE SCREW. MAX. HANGER LOAD NOT TO EXCEED 160 LBS. TO BE USED FOR SUPPORT OF ACCOUSTICAL CEILING ONLY. HANGER SPACING NOT TO EXCEED 4'-0" IN ANY DIRECTION SEE NOTE #1 FOR TESTING.
3	12 GA. MIN. HANGER WIRE AT 4'-0" O.C. MAX. EA. WAY

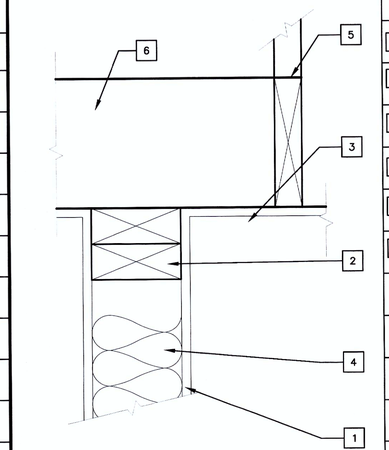
NOTES :
1. TEST 10% OF SCREWS FOR A CAPACITY OF 200 LBS. IF FAILURE OCCURS, TEST ALL SCREWS.
2. TO ELIMINATE ALL TESTING, PLACE SCREWS IN WEB OF TRUSS AS SHOWN ABOVE.

2 BOTTOM OF TRUSS CONNECTION
FILE NAME: SCALE: 3" = 1'-0"



KEYNOTES	
1	CEILING ACCESS PANEL
2	CEILING TYPE AS INDICATED IN SCHEDULE AND PLANS
3	ACCESS LADDER
4	WALL PER WALL TYPE . REFER TO PLAN

7 CEILING LADDER DETAIL
FILE NAME: SCALE: 3/4" = 1'-0"



KEYNOTES	
1	5/8" TYPE 'X' GYP. BD.
2	2 X 4 WOOD TOP PLATE
3	EXISTING PLASTER CEILING
4	2 X 4 WOOD STUD WALL W/ SOUND INSULATION
5	EXISTING TRUSS SYSTEM
6	2X BLOCKING BETWEEN TRUSSES @ 4'-0" O.C.

4 1923 CEILING DETAIL
FILE NAME: SCALE: 3" = 1'-0"

NOT USED

1

REVISIONS
1 PLAN CHECK REVISIONS - 9/4/14
2 PLAN CHECK REVISIONS - 10/7/14
3 PLAN CHECK REVISIONS - 12/3/14

ARCHITECT
kme ARCHITECTS
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LAS VEGAS, NEVADA 89118
P: 702-888-2066 / F: 702-888-2069
WEB: www.kmearchitects.com

CONSULTANT

WESTSIDE SCHOOL HISTORIC REHABILITATION
330 W. WASHINGTON AVE.
LAS VEGAS, NEVADA 89106

CLV PLANS LIBRARY NUMBER: 715-175-1
BID NUMBER: 12.43221-TF

REFLECTED CEILING PLAN DETAILS

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MELVIN D. GREEN REGISTERED No. 2249 ARCHITECT STATE OF NEVADA

AUGUST 4, 2014

CONSTRUCTION DOCUMENTS

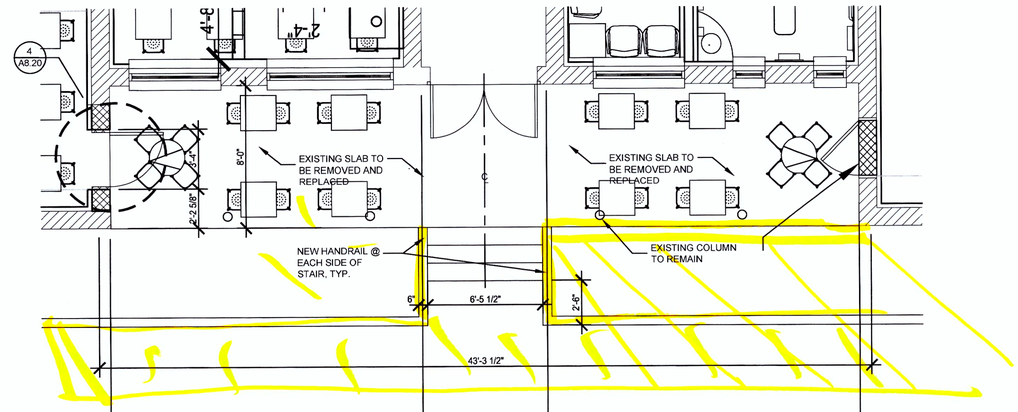
OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6535
FAX: (702) 382-3232
TDD: (702) 386-9108

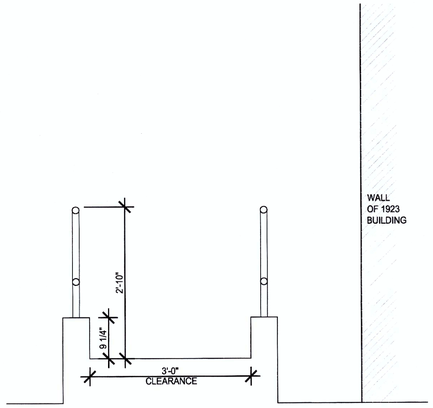
DRAWN L.R.
FILE 2012-007
DATE 08-11-2014
SCALE NTS
BID NO 12.43221-TF
CLV DWG NO 715-175-1
SHT NO
A8.31

REVISED 8/14/13

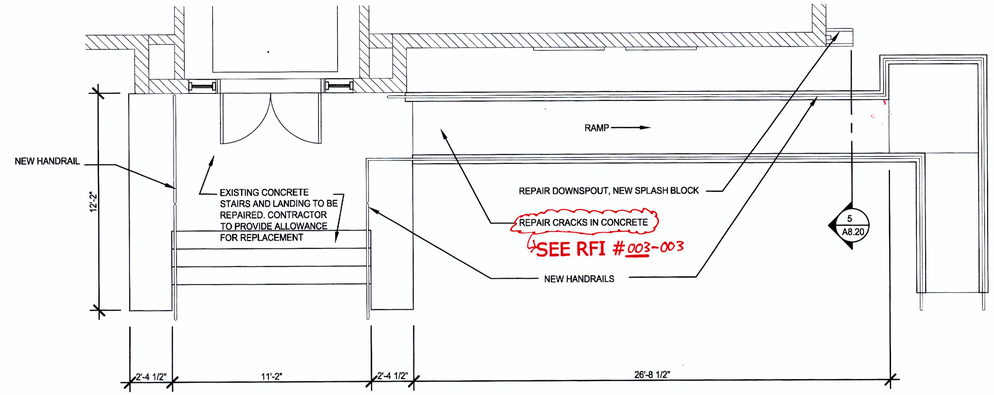
6



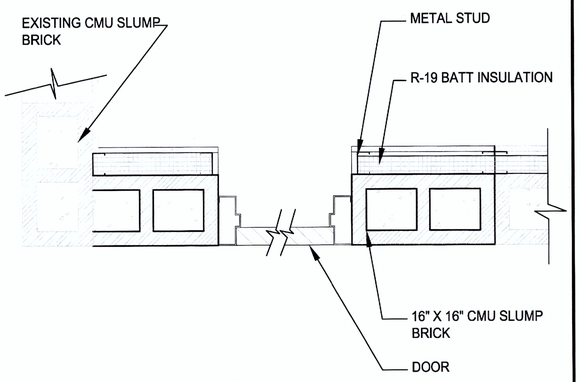
3 1948 BUILDING SOUTH STAIR
FILE NAME: SCALE: 1/4" = 1'-0"



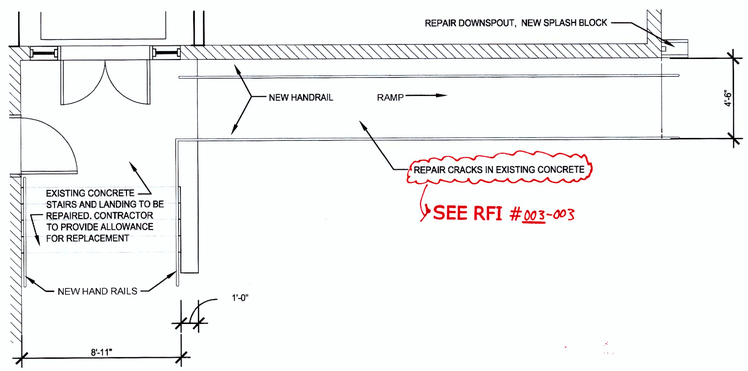
5 RAMP HANDRAIL DETAIL
FILE NAME: SCALE: 3/4" = 1'-0"



2 1923 SOUTH RAMP
FILE NAME: SCALE: 1/4" = 1'-0"



4 CMU IN FILL DOOR DETAIL
FILE NAME: SCALE: 1 1/2" = 1'-0"



1 1923 NORTH RAMP PLAN DETAIL
FILE NAME: SCALE: 1/4" = 1'-0"

REVISIONS
1 PLAN CHECK REVISIONS - 9/4/14
2 PLAN CHECK REVISIONS - 10/7/14
3 PLAN CHECK REVISIONS - 12/3/14

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LAS VEGAS, NEVADA 89118
P: 702-888-2088 F: 702-888-2089
WEB: www.kmearchitects.com
CONSULTANT

WESTSIDE SCHOOL HISTORIC REHABILITATION
330 W. WASHINGTON AVE.
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OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6535
FAX: (702) 382-3232
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DRAWN	L.R.
FILE	2012-007
DATE	08-11-2014
SCALE	NTS
BID NO	12.43221-TF
CLV DWG NO	715-175-1
SHT NO	A8.20

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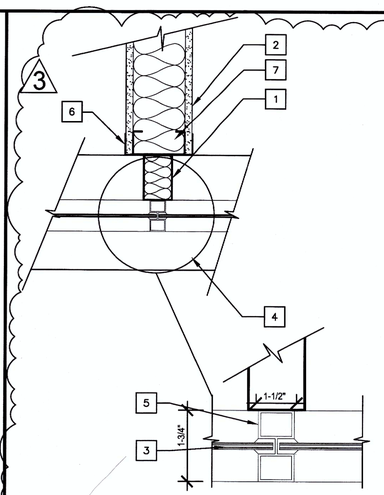
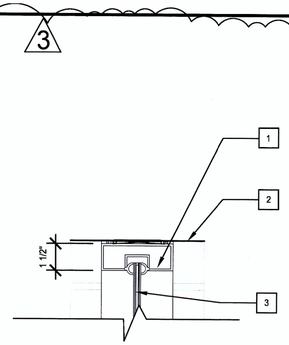
9



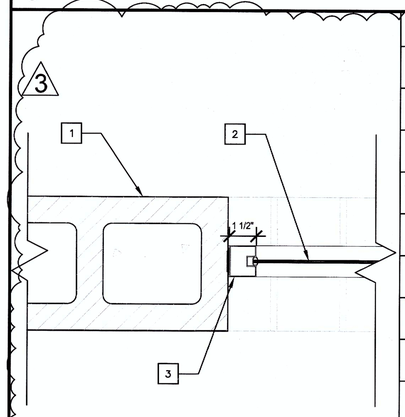
KEYNOTES	
1	CLEAR ANODIZED SILL CHANNEL FRAMING. WIDTH TO MATCH STEEL WINDOW MULLION
2	3 5/8" METAL STUDS WITH GYP. BD. BOTH SIDES)
3	1" THICK INSULATING GLASS - LOW E - PILKINGTON
4	EXISTING CONCRETE SILL
5	ALUMINUM WINDOW SYSTEM - SEE WINDOW SCHEDULE
6	U SHAPE PAINTED METAL END WALL CAP
7	ACOUSTICAL SOUND BATT

6 1948 ANNEX WINDOW MULLION DETAIL @ WALL
FILE NAME: SCALE: 3" = 1'-0"



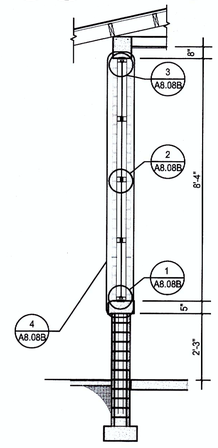
KEYNOTES	
1	ALUMINUM WINDOW SYSTEM - SEE WINDOW SCHEDULE
2	EXISTING CONCRETE WALL
3	1" THICK INSULATING GLASS - LOW E - PILKINGTON

3 HEADER DETAIL
FILE NAME: SCALE: 3" = 1'-0"

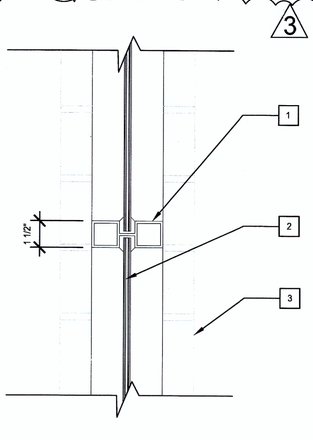


KEYNOTES	
1	EXISTING SLUMP BLOCK WITH CEMENT CORE
2	1" THICK INSULATING GLASS - LOW E - PILKINGTON
3	ALUMINUM WINDOW SYSTEM - SEE WINDOW SCHEDULE

8 1948 ANNEX WINDOW DETAIL
FILE NAME: SCALE: 3" = 1'-0"

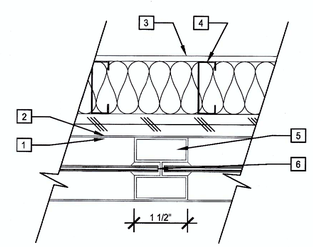


5 WALL SECTION
FILE NAME: SCALE: 1/4" = 1'-0"



KEYNOTES	
1	ALUMINUM WINDOW SYSTEM - SEE WINDOW SCHEDULE
2	1" THICK INSULATING GLASS - LOW E - PILKINGTON
3	EXISTING CONCRETE WALL

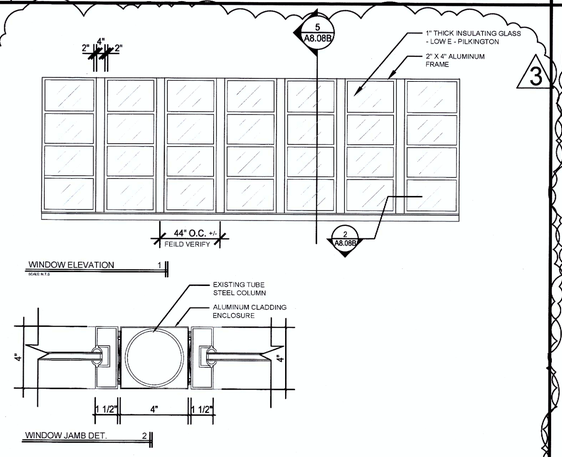
2 CENTER MULLION DETAIL
FILE NAME: SCALE: 3" = 1'-0"



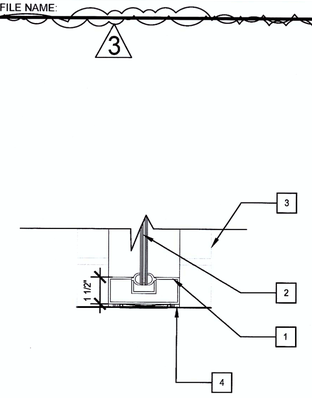
Air relief holes
SEE RFI #009-004

KEYNOTES	
1	ADHERE MECHOSHADE FABRIC TO PLYWOOD
2	5/8" PLYWOOD ATTACHED TO METAL FRAMING
3	5/8" GYP. BOARD WALL
4	WALL TYPE D
5	ALUMINUM WINDOW SYSTEM - SEE WINDOW SCHEDULE
6	1" THICK INSULATING GLASS - LOW E - PILKINGTON

7 DETAIL
FILE NAME: SCALE: 1-1/2" = 1'-0"



4 DETAIL
FILE NAME: SCALE: 1/4" = 1'-0"



KEYNOTES	
1	ALUMINUM WINDOW SYSTEM - SEE WINDOW SCHEDULE
2	1" THICK INSULATING GLASS - LOW E - PILKINGTON
3	EXISTING CONCRETE WALL
4	BACKER ROD AND EXTERIOR CAULKING

1 SILL DETAIL
FILE NAME: SCALE: 3" = 1'-0"

REVISIONS
1 PLAN CHECK REVISIONS - 9/4/14
2 PLAN CHECK REVISIONS - 10/7/14
3 PLAN CHECK REVISIONS - 12/3/14

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LAS VEGAS, NEVADA 89118
P: 702-888-2088 / F: 702-896-2089
WEB: www.kmearchitects.com
CONSULTANT

WESTSIDE SCHOOL HISTORIC REHABILITATION
330 W. WASHINGTON AVE.
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WINDOW DETAILS - ALTERNATE

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400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6535
FAX: (702) 382-3232
TDD: (702) 386-9108

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DATE 08-11-2014
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SHT NO A8.80B

REVISED 8/14/13

SEE RFI #003-015

ROOM FINISH SCHEDULE (1948 BLDG)

REV #	ROOM NAME	ROOM #	FLOOR	BASE	WALLS				CEILING	REMARKS
					NORTH	SOUTH	EAST	WEST		
–	PORCH	100	CONC -1	-	CMU	CMU	CMU	CMU	PL-1	SEE EXTERIOR FINISH SCHEDULE (3)
–	RETAIL	101	CONC -1	-	PT-1	PT-1	PT-1	PT-1	PL-1	
–	STOR.	102	CONC -1	-	PT-1	PT-1	PT-1	PT-1	ACT-2	(3)
–	STOR.	103	CONC -1	-	PT-1	PT-1	PT-1	PT-1	ACT-2	(3)
–	KCEP UTILITY ROOM	104	CONC -1	-	PT-1	PT-1	PT-1	PT-1	EXPOSED	(3)
–	RETAIL	105	CONC -1	-	PT-1	PT-1	PT-1	PT-1	PL-1	(1)
–	RETAIL	106	CONC -1	-	PT-1	PT-1	PT-1	PT-1	PL-1	(1)
–	STOR.	107	CONC -1	-	PT-1	PT-1	PT-1	PT-1	ACT-2	(3)
–	STOR.	108	CONC -1	-	PT-1	PT-1	PT-1	PT-1	ACT-2	(3)
–	ELEC. ROOM	109	CONC -1	-	PT-1	PT-1	PT-1	PT-1	EXPOSED	(3)
–	RETAIL	110	CONC -1	-	PT-1	PT-1	PT-1	PT-1	PL-1	(1)
–	RETAIL	111	CONC -1	-	PT-1	PT-1	PT-1	PT-1	PL-1	(1)
–	WOMEN'S RESTROOM	112	CONC./CT-1	CB-1	CT1-2	CT1-2	CT1-2	CT1-2	PL-1	(2) (3) (4) 3
–	MEN'S RESTROOM	113	CONC./CT-1	CB-1	CT1-2	CT1-2	CT1-2	CT1-2	PL-1	(2) (3) (4)
–	STOR.	114	CONC -1	-	PT-1	PT-1	PT-1	PT-1	PL-1	(1) (3)
–	STOR.	115	CONC -1	-	PT-1	PT-1	PT-1	PT-1	PL-1	(3)
–	ELECT. ROOM	116	CONC -1	-	PT-1	PT-1	PT-1	PT-1	EXPOSED	(3)
–	RETAIL	117	CONC -1	-	PT-1	PT-1	PT-1	PT-1	PL-1	(1)
–	RETAIL	118	CONC -1	-	PT-1	PT-1	PT-1	PT-1	PL-1	(1)
–	STOR.	119	CONC -1	-	PT-1	PT-1	PT-1	PT-1	PL-1	(3)
–	STOR.	120	CONC -1	-	PT-1	PT-1	PT-1	PT-1	PL-1	(3)
–	PREP.	122	CONC -1	-	PT-1	PT-1	PT-1	PT-1	PL-1	(1)
–	DINING	123	CONC -1	-	PT-1	PT-1	PT-1	PT-1	PL-1	(1)
–	WAITING ROOM	125	CONC -1	-	PT-1	PT-1	PT-1	PT-1	ACT-1	(1)
–	FAMILY BATHROOM	126	CONC -1		PT-1	PT-1	PT-1	PT-1	ACT-1	(1)
–	RECEPTION	127	CONC -1	-	PT-1	PT-1	PT-1	PT-1	ACT-1	(1)
–	CONTROL ROOM	128	CONC -1	-	PT-1	PT-1	PT-1	PT-1	ACT-1	(1)
–	TALK	129	CONC -1	-	PT-1	PT-1	PT-1	PT-1	ACT-1	(1)
–	NEWS	131	CONC -1	-	PT-1	PT-1	PT-1	PT-1	ACT-1	(1)
–	PRODUCTION	132	CONC -1	-	PT-1	PT-1	PT-1	PT-1	ACT-1	(1)
–	PRODUCTION	133	CONC -1	-	PT-1	PT-1	PT-1	PT-1	ACT-1	(1)
–	ELEC.	134	CONC -1	-	PT-1	PT-1	PT-1	PT-1	PL-1	(1)
–	STOR.	135	CONC -1	-	PT-1	PT-1	PT-1	PT-1	ACT-2	(1)
–	KCEP UTILITY ROOM	136	CONC -1	-	PT-1	PT-1	PT-1	PT-1	EXPOSED	(3)
–	OPEN OFFICE	137	CONC -1	-	PT-1	PT-1	PT-1	PT-1	ACT-1	(1)
–	CONFERENCE ROOM	138	CONC -1	-	PT-1	PT-1	PT-1	PT-1	ACT-1	(1)
–	OFFICE	139	CONC -1	-	PT-1	PT-1	PT-1	PT-1	ACT-1	(1)
–	OPEN OFFICE	140	CONC -1	-	PT-1	PT-1	PT-1	PT-1	ACT-1	(1)
–	OFFICE	141	CONC -1	-	PT-1	PT-1	PT-1	PT-1	ACT-1	(1)
–	OFFICE	142	CONC -1	-	PT-1	PT-1	PT-1	PT-1	ACT-1	(1)
–	HALL	143	CONC -1	-	PT-1	PT-1	PT-1	PT-1	ACT-2	(3)
–	OFFICE	144	CONC -1	-	PT-1	PT-1	PT-1	PT-1	ACT-1	(1)
–	OPEN OFFICE	145	CONC -1	-	PT-1	PT-1	PT-1	PT-1	ACT-1	(1)
–	OFFICE	146	CONC -1	-	PT-1	PT-1	PT-1	PT-1	ACT-1	(1)
–	OPEN OFFICE	147	CONC -1	-	PT-1	PT-1	PT-1	PT-1	ACT-1	(1)
–	CLOSET	148	CONC -1	-	PT-1	PT-1	PT-1	PT-1	ACT-2	(1)
–	FIRE RISER ROOM	151	CONC -1	-	PT-1	PT-1	PT-1	PT-1	PL-1	(1)
–	VESTIBULE	152	CONC -1	-	PT-1	PT-1	PT-1	PT-1	PL-1	(1)
–	CLOSET	153	CONC -1	-	PT-1	PT-1	PT-1	PT-1	ACT-2	(1)
–	CLOSET	154	CONC -1	-	PT-1	PT-1	PT-1	PT-1	ACT-2	(1)
–	CLOSET	155	CONC -1	-	PT-1	PT-1	PT-1	PT-1	ACT-2	(1)
–	CLOSET	156	CONC -1	-	PT-1	PT-1	PT-1	PT-1	ACT-2	(1)
–	CLOSET	157	CONC -1	-	PT-1	PT-1	PT-1	PT-1	ACT-2	(1)
–	CLOSET	158	CONC -1	-	PT-1	PT-1	PT-1	PT-1	ACT-2	(1)
–	CLOSET	159	CONC -1	-	PT-1	PT-1	PT-1	PT-1	ACT-2	(1)
–	CLOSET	160	CONC -1	-	PT-1	PT-1	PT-1	PT-1	ACT-2	(1)
–	CLOSET	161	CONC -1	-	PT-1	PT-1	PT-1	PT-1	ACT-2	(1)
–	CLOSET	162	CONC -1	-	PT-1	PT-1	PT-1	PT-1	ACT-2	(1)
–	CLOSET	163	CONC -1	-	PT-1	PT-1	PT-1	PT-1	ACT-2	(1)

NOTE: ALL INTERIOR WINDOW TRIM AND SASH SHALL BE PT-2 - RELISH, SW 6443

ROOM FINISH LEGEND

FLOOR MATERIALS

(1) SEALED CONCRETE - CLEAN AND PREPARE FOR FINISH

FLOOR FINISHES

CONCRETE
CONC-1 MFR. SEALKRETE OR EQUAL
STYLE/ NO. CLEAR-SEAL CONCRETE SEALER
COLOR/ NO. GLOSS

CERAMIC TILE
CT-1 MFR. DALTILE
STYLE/ NO. 2" HEXAGON
COLOR/ NO. MINT ICE D152/CYPRESS/D452

BASE FINISHES

CB-1 MFR. DALTILE
STYLE/ NO. RITTENHOUSE SQUARE (3X6)
COLOR/ NO. CYPRESS/1452

WALL MATERIALS

(1) 5/8" TYPE "X" GYP. BD.
(2) 5/8" FIBERGLASS MAT GYP. BD. PANELS
(3) CMU WALL
(4) PLASTER
(5) FRP PANEL
(6) STAINLESS STEEL FACE
(7) CERAMIC TILE

NOTE ALL GYP. BD. - TAPE, SEAL, AND SAND -TEXTURE LIGHT KNOCKDOWN EXCEPT AT WAINSCOTS AND VINYL WALL COVERINGS

WALL FINISHES

PT-1 MFR. SHERWIN WILLIAMS
STYLE/ NO. SW6112
COLOR/ NO. BISCUIT

PT-2 MFR. SHERWIN WILLIAMS
STYLE/ NO. SW6443
COLOR/ NO. RELISH

CT-1 MFR. DALTILE (ACCENT)
STYLE/ NO. RITTENHOUSE SQUARE (3X6)
COLOR/ NO. CYPRESS/1452

CT-2 MFR. DALTILE (FIELD)
STYLE/ NO. RITTENHOUSE SQUARE (3X6)
COLOR/ NO. SPA/0148

CEILING MATERIALS

(1) NEW 5/8" TYPE "X" GYP. BD. - TAPE, SEAL, AND SAND - TEXTURE LIGHT KNOCKDOWN
(2) SUSPENDED GRID SYSTEM COLOR AND STYLE SELECTED BY OWNER

CEILING FINISHES

PL-1 MFR. SHERWIN WILLIAMS
STYLE/ NO. RESERVED WHITE
COLOR/ NO. SW 7056

ACT-1 MFR. ARMSTRONG OR EQUAL
STYLE/ NO. CORTEGA LAY-IN
COLOR/ NO. 703 - WHITE
SIZE 24" X 48"

ACT-2 MFR. USG OR EQUAL
STYLE/ NO. TIVOLI #4240
COLOR/ NO. WHITE
SIZE 12" X 12"

EXTERIOR

CMU WALLS:
MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW6743
NAME: MINT CONDITION
INTERIOR OF PORCH AND INTERIOR OF 1960S ADDITION:
MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW7056
NAME: RESERVED WHITE
STEEL SASH WINDOWS:
MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW6385
NAME: DOVER WHITE
RAFTERS AND EAVES:
MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW6112
NAME: BISCUIT
DOORS AND TRIM:
MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW6693
NAME:LILY

REVISIONS
PLAN CHECK REVISIONS - 9/4/14
PLAN CHECK REVISIONS - 10/7/14
PLAN CHECK REVISIONS - 12/3/14

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P: 702-888-2088 / F: 702-888-2089
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1948 ANNEX - ROOM FINISH SCHEDULE

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LAS VEGAS, NEVADA 89101
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FAX: (702) 382-3232
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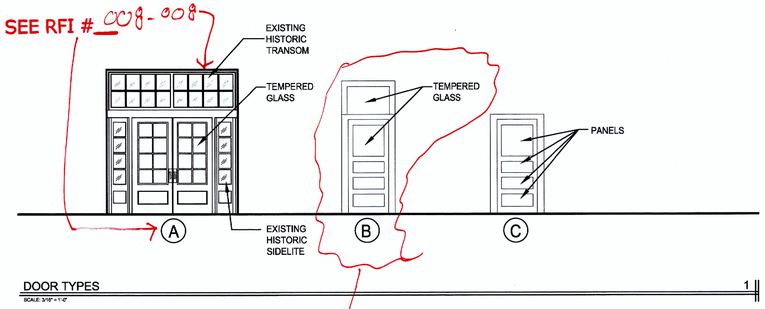
REVISED 8/14/13

SEE RFI #008-008

DOOR SCHEDULE - 1923 BUILDING

REV. NO.	ROOM NAME	ROOM NO.	MARK	DOOR						FRAME		RATING	HARDWARE		REMARKS
				SIZE	THK	TYPE	SWING	MAT.	FIN.	MAT.	FIN.		GROUP	ELEC	
--	HALLWAY	100	100A	PR 5'-7" x 7'-0"	1 3/4"	A	NA	METAL	PT	METAL	PT	NONE	9	NO	--
--	HALLWAY	100	100B	PR 5'-0" x 7'-0"	1 3/4"	A	NA	METAL	PT	METAL	PT	NONE	9	NO	--
--	MEETING ROOM	101	101A	3'-0" x 7'-0"	1 3/4"	B	Right	WOOD	PT	WOOD	PT	NONE	1	NO	--
--	MEETING ROOM	101	101B	3'-0" x 7'-0"	1 3/4"	B	Right	WOOD	PT	WOOD	PT	NONE	1	NO	--
--	WOMEN'S RESTROOM	102	102A	3'-0" x 7'-0"	1 3/4"	C	NA	WOOD	PT	WOOD	PT	NONE	8	NO	--
--	CLOSET	103	103A	3'-0" x 7'-0"	1 3/4"	C	Left	WOOD	pt	WOOD	pt	NONE	4	NO	--
--	CLOSET	103	103B	3'-0" x 7'-0"	1 3/4"	C	Left	WOOD	PT	WOOD	PT	NONE	4	NO	--
--	CLOSET	104	104A	3'-0" x 7'-0"	1 3/4"	C	Left	WOOD	PT	WOOD	PT	NONE	4	NO	--
--	EXHIBIT ROOM	105	105A	3'-0" x 7'-0"	1 3/4"	B	Left	WOOD	PT	WOOD	PT	NONE	1	NO	--
--	EXHIBIT ROOM	105	105B	3'-0" x 7'-0"	1 3/4"	B	Left	WOOD	PT	WOOD	PT	NONE	1	NO	--
--	MEETING ROOM	106	106A	3'-0" x 7'-0"	1 3/4"	B	Left	WOOD	PT	WOOD	PT	NONE	1	NO	--
--	MEETING ROOM	106	106B	3'-0" x 7'-0"	1 3/4"	B	Right	WOOD	PT	WOOD	PT	NONE	1	NO	--
--	ELECTRICAL ROOM	107	107A	2'-6" x 7'-0"	1 3/4"	C	Left	WOOD	PT	WOOD	PT	45 MINS	--	NO	45 MIN FIRE RATED DOOR / JAMB / HINGES
--	UTILITY ROOM	108	108A	3'-0" x 7'-0"	1 3/4"	C	Right	WOOD	PT	WOOD	PT	NONE	3A	NO	--
--	FIRE RISER ROOM	109	109A	3'-0" x 7'-0"	1 3/4"	C	Left	WOOD	PT	WOOD	PT	45 MINS	6	NO	45 MIN FIRE RATED DOOR / JAMB / HINGES
--	MEN'S RESTROOM	110	110A	3'-0" x 7'-0"	1 3/4"	C	Left	WOOD	PT	WOOD	PT	NONE	8	NO	--
--	OFFICE	111	111A	3'-0" x 7'-0"	1 3/4"	C	Right	WOOD	PT	WOOD	PT	NONE	7	NO	--
--	OFFICE	111	111B	3'-0" x 7'-0"	1 3/4"	C	NA	WOOD	PT	WOOD	PT	NONE	7	NO	--
--	EXHIBIT ROOM	112	112A	3'-0" x 7'-0"	1 3/4"	B	Left	WOOD	PT	WOOD	PT	NONE	1	NO	--
--	EXHIBIT ROOM	112	112B	3'-4" x 7'-0"	1 3/4"	C	Right	METAL	PT	METAL	PT	NONE	2	NO	SC EXTERIOR PANEL
--	STORAGE	113	113A	3'-0" x 7'-0"	1 3/4"	C	Right	WOOD	PT	WOOD	PT	NONE	3	NO	--
--	STORAGE	113	113B	3'-0" x 7'-0"	1 3/4"	C	Left	WOOD	PT	WOOD	PT	NONE	3A	NO	--

SEE RFI #008-008



DOOR TYPES 1

SCALE: 3/16" = 1'-0"

NOTES:

SEE RFI #008-007

GENERAL NOTES

1. ALL GLAZING IN HAZARDOUS AREAS MUST MEET THE REQUIREMENTS FOR SAFETY GLAZING UNDER I.B.C. 2012 SECTION 2406.

2. PROVIDE INT DR. BUMPER & BACKING ,TYP. PROVIDE AT ALL DOORS THAT SWING INTO GYP. BD.

3. PAINT ALL INT DR. LITE FRAMES TO MATCH ADJACENT DR. AND FRAME.

4. ALL EXTERIOR GLAZING TO BE CLEAR

5. ALL DR. FRAMES SHALL HAVE SILENCERS INSTALLED AFTER PAINTING IS COMPLETE.

6. STOPS SHALL BE INSTALLED AT ALL DR. LOCATIONS.

7. CONTRACTOR TO PROVIDE HARDWARE SET CONSULTANT

8. HARDWARE HEIGHT, DOOR HANDLES, PULLS, LATCHES, LOCKS & OTHER OPERATING DEVICES SHALL BE INSTALLED 34" MIN. & 48" MAX. ABOVE THE FINISHED FLOOR

9. FOR HARDWARE DOORS 107A AND 109A USE CLOSER LCN 4040XP, SMOKE AND FIRE RATED GASKETING / SEAL, DOOR BOTTOM PEMKO 411_NBL-UL 10C

NOTE:
CONTRACTOR TO PROVIDE DOOR HARDWARE SUBMITTAL TO ARCHITECT TO INCLUDE ALL NECESSARY ITEMS FOR COMPLETE OPERABLE SYSTEMS. ALL HARDWARE SHALL BE ADA COMPLIANT. COORDINATE LOCKSET TYPE WITH OWNER. HARDWARE TO INCLUDE CLOSERS, LOCKSETS, HINGES, WEATHERSTRIPPING, ETC.

716.5.1 SIDE - HINGED OR PIVOTED SWINGING DOORS. *FIRE DOOR* ASSEMBLIES WITH SIDE-HINGED AND PIVOTED SWINGING DOORS SHALL BE TESTED IN ACCORDANCE WITH NFPA 252 OR UL10C.

716.5.3.1 SMOKE AND DRAFT CONTROL. *FIRE DOOR* ASSEMBLIES SHALL ALSO MEET THE REQUIREMENTS FOR A SMOKE AND DRAFT CONTROL DOOR ASSEMBLY TESTED IN ACCORDANCE WITH UL 1784. THE AIR LEAKAGE RATE OF THE DOOR ASSEMBLY SHALL NOT EXCEED 3.0 CUBIC FEET PER MINUTE PER SQUARE FOOT (0.01524 M ^{3}/S * M^2) OF DOOR OPENING AT 0.10 INCH (24.9 Pa) OF WATER FOR BOTH THE AMBIENT TEMPERATURE AND ELEVATED TEMPERATURE TESTS. LOUVERS SHALL BE PROHIBITED. INSTALLATION OF SMOKE DOORS SHALL BE IN ACCORDANCE WITH NFPA 105.

REVISIONS

1 PLAN CHECK REVISIONS - 9/4/14
2 PLAN CHECK REVISIONS - 10/7/14
3 PLAN CHECK REVISIONS - 12/3/14

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6765 WEST RUSSELL ROAD, SUITE 200
LAS VEGAS, NEVADA 89118
TEL: 1-888-2066 FAX: 702-588-2089
WEB: www.kmearchitects.com

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1923 BUILDING - DOOR SCHEDULE

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OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6535
FAX: (702) 382-3232
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SHT NO

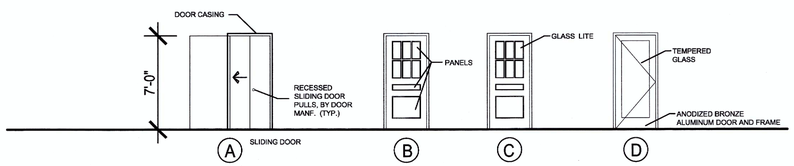
A9.03

REVISED 8/14/13

DOOR SCHEDULE 1948 ANNEX BUILDING

SEE RFI # 008-002
Pocket door Framing

REV. NO	ROOM NAME	ROOM NO.	MARK	DOOR SIZE	DOOR THK	DOOR TYPE	DOOR SWING	DOOR MAT.	DOOR FIN.	FRAME MAT.	FRAME FIN.	RATING	HARDWARE GROUP	HARDWARE ELEC	REMARKS
--	RETAIL	101	101A	3'-0" x 7'-0"	1 3/4"	C	Left	MTL	PAINT	STEEL	PAINT	NONE	2	NO	METAL INSULATED DOOR
--	STOR.	102	102A	3'-0" x 7'-0"	1 3/4"	B	Left	WOOD	PAINT	STEEL	PAINT	NONE	3	NO	--
--	STOR.	102	102B	3'-0" x 7'-0"	1 3/4"	B	Right	WOOD	PAINT	STEEL	PAINT	NONE	4	NO	--
--	STOR.	103	103A	3'-0" x 7'-0"	1 3/4"	B	Right	WOOD	PAINT	STEEL	PAINT	NONE	3A	NO	--
--	STOR.	103	103B	3'-0" x 7'-0"	1 3/4"	B	Left	WOOD	PAINT	STEEL	PAINT	NONE	4	NO	--
--	KCEP UTILITY ROOM	104	104A	3'-0" x 7'-0"	1 3/4"	B	Left	MTL	PAINT	STEEL	PAINT	NONE	15	NO	METAL INSULATED DOOR
--	RETAIL	105	105A	3'-0" x 7'-0"	1 3/4"	C	Left	MTL	PAINT	STEEL	PAINT	NONE	2	NO	METAL INSULATED DOOR
--	RETAIL	106	106A	3'-0" x 7'-0"	1 3/4"	C	Right	MTL	PAINT	STEEL	PAINT	NONE	2	NO	METAL INSULATED DOOR
--	STOR.	107	107A	3'-0" x 7'-0"	1 3/4"	B	Right	WOOD	PAINT	STEEL	PAINT	NONE	3	NO	--
--	STOR.	107	107B	3'-0" x 7'-0"	1 3/4"	B	Right	WOOD	PAINT	STEEL	PAINT	NONE	3	NO	--
--	STOR.	108	108A	3'-0" x 7'-0"	1 3/4"	B	Left	WOOD	PAINT	STEEL	PAINT	NONE	3	NO	--
--	STOR.	108	108B	3'-0" x 7'-0"	1 3/4"	B	Left	WOOD	PAINT	STEEL	PAINT	NONE	3	NO	--
--	ELEC. ROOM	109	109A	3'-0" x 7'-0"	1 3/4"	B	Left	MTL	PAINT	STEEL	PAINT	NONE	16	NO	METAL INSULATED DOOR
--	RETAIL	110	110A	3'-0" x 7'-0"	1 3/4"	C	Right	WOOD	PAINT	STEEL	PAINT	NONE	--	NO	--
--	RETAIL	111	111A	3'-0" x 7'-0"	1 3/4"	C	Right	MTL	PAINT	STEEL	PAINT	NONE	2	NO	METAL INSULATED DOOR
--	STOR.	114	114A	3'-0" x 7'-0"	1 3/4"	B	Left	WOOD	PAINT	STEEL	PAINT	NONE	6	NO	--
--	STOR.	115	115A	3'-0" x 7'-0"	1 3/4"	B	Left	WOOD	PAINT	STEEL	PAINT	NONE	4	NO	--
--	STOR.	115	115B	3'-0" x 7'-0"	1 3/4"	B	Right	WOOD	PAINT	STEEL	PAINT	NONE	4	NO	--
--	ELECT. ROOM	116	116A	3'-0" x 7'-0"	1 3/4"	B	Right	MTL	PAINT	STEEL	PAINT	NONE	--	NO	METAL INSULATED DOOR
--	RETAIL	117	117A	3'-0" x 7'-0"	1 3/4"	C	Right	MTL	PAINT	STEEL	PAINT	NONE	2	NO	METAL INSULATED DOOR
--	RETAIL	118	118A	3'-0" x 7'-0"	1 3/4"	C	Right	MTL	PAINT	STEEL	PAINT	NONE	2	NO	METAL INSULATED DOOR
--	RETAIL	119	119A	3'-0" x 7'-0"	1 3/4"	B	Right	MTL	PAINT	STEEL	PAINT	NONE	2	NO	--
--	RETAIL	119	119B	3'-0" x 7'-0"	1 3/4"	B	Right	MTL	PAINT	STEEL	PAINT	NONE	2	NO	--
--	PREP.	122	122A	3'-0" x 7'-0"	1 3/4"	C	Left	MTL	PAINT	STEEL	PAINT	NONE	2	NO	METAL INSULATED DOOR
--	PREP.	122	122B	3'-0" x 7'-0"	1 3/4"	C	Left	MTL	PAINT	STEEL	PAINT	NONE	14	NO	METAL INSULATED DOOR
--	DINING	123	123A	3'-0" x 7'-0"	1 3/4"	C	Right	MTL	PAINT	STEEL	PAINT	NONE	14	NO	METAL INSULATED DOOR
--	DINING	123	123B	3'-0" x 7'-0"	1 3/4"	B	Left	WOOD	PAINT	STEEL	PAINT	NONE	14	NO	
--	WAITING ROOM	125	125A	3'-0" x 7'-0"	1 3/4"	C	Left	MTL	PAINT	STEEL	PAINT	NONE	14	YES	METAL INSULATED DOOR
--	FAMILY BATHROOM	126	126A	3'-0" x 7'-0"	1 3/4"	A	SLIDING	WOOD	PAINT	STEEL	PAINT	NONE	12	NO	
--	RECEPTION	127	127A	3'-0" x 7'-0"	1 3/4"	A	SLIDING	WOOD	PAINT	STEEL	PAINT	NONE	13	NO	
--	CONTROL ROOM	128	128A	3'-0" x 7'-0"	1 3/4"	C	Right	MTL	PAINT	STEEL	PAINT	NONE	15	NO	METAL INSULATED DOOR
--	CONTROL ROOM	128	128B	3'-0" x 7'-0"	1 3/4"	C	Left	WOOD	PAINT	STEEL	PAINT	NONE	7A	NO	--
--	TALK	129	129A	3'-0" x 7'-0"	1 3/4"	B	Left	WOOD	PAINT	STEEL	PAINT	NONE	7A	NO	--
--	WAITING	130	130A	3'-0" x 7'-0"	1 3/4"	C	Left	MTL	PAINT	STEEL	PAINT	NONE	7	NO	METAL INSULATED DOOR
--	WAITING	130	130B	3'-0" x 7'-0"	1 3/4"	B	Left	WOOD	PAINT	STEEL	PAINT	NONE	13	YES	--
--	WAITING	130	130C	3'-0" x 7'-0"	1 3/4"	B	Left	WOOD	PAINT	STEEL	PAINT	NONE	13	YES	--
--	NEWS	131	131A	3'-0" x 7'-0"	1 3/4"	A	SLIDING	WOOD	PAINT	STEEL	PAINT	NONE	13	NO	--
--	PRODUCTION	132	132A	3'-0" x 7'-0"	1 3/4"	B	Left	WOOD	PAINT	STEEL	PAINT	NONE	7A	NO	--
--	PRODUCTION	133	133A	3'-0" x 7'-0"	1 3/4"	B	Left	WOOD	PAINT	STEEL	PAINT	NONE	7A	NO	--
--	ELEC.	134	134A	3'-0" x 7'-0"	1 3/4"	B	Left	WOOD	PAINT	STEEL	PAINT	NONE	6A	NO	--
--	STOR.	135	135A	3'-0" x 7'-0"	1 3/4"	B	Right	WOOD	PAINT	STEEL	PAINT	NONE	6	YES	--
--	KCEP UTILITY ROOM	136	136A	3'-0" x 7'-0"	1 3/4"	B	Right	MTL	PAINT	STEEL	PAINT	NONE	15	NO	METAL INSULATED DOOR
--	OPEN OFFICE	137	137A	3'-0" x 7'-0"	1 3/4"	C	Right	MTL	PAINT	STEEL	PAINT	NONE	7	NO	METAL INSULATED DOOR
--	CONFERENCE ROOM	138	138A	3'-0" x 7'-0"	1 3/4"	D	Right	ALUM	*A.B.	ALUM	*A.B.	NONE	7	NO	A.B. - ANODIZED BRONZE
--	OFFICE	139	139A	3'-0" x 7'-0"	1 3/4"	A	SLIDING	WOOD	PAINT	STEEL	PAINT	NONE	13	NO	
--	OPEN OFFICE	140	140A	3'-0" x 7'-0"	1 3/4"	C	Right	WOOD	PAINT	STEEL	PAINT	NONE	7	NO	
--	OFFICE	141	141A	3'-0" x 7'-0"	1 3/4"	B	Right	WOOD	PAINT	STEEL	PAINT	NONE	7A	NO	
--	OFFICE	142	142A	3'-0" x 7'-0"	1 3/4"	B	Right	WOOD	PAINT	STEEL	PAINT	NONE	7A	NO	
--	OFFICE	144	144A	3'-0" x 7'-0"	1 3/4"	B	Right	WOOD	PAINT	STEEL	PAINT	NONE	7A	NO	
--	OPEN OFFICE	145	145A	3'-0" x 7'-0"	1 3/4"	C	Right	MTL	PAINT	STEEL	PAINT	NONE	15	YES	METAL INSULATED DOOR
--	OFFICE	146	146A	3'-0" x 7'-0"	1 3/4"	B	Right	WOOD	PAINT	STEEL	PAINT	NONE	7A	NO	
--	OFFICE	147	147A	3'-0" x 7'-0"	1 3/4"	B	Right	WOOD	PAINT	STEEL	PAINT	NONE	7A	NO	
--	CLOSET	148	148A	2'-8" x 7'-0"	1 3/4"	B	Right	WOOD	PAINT	STEEL	PAINT	NONE	10	NO	--
--	FIRE RISER ROOM	151	151A	3'-0" x 7'-0"	1 3/4"	C	Right	MTL	PAINT	STEEL	PAINT	NONE	15	NO	METAL INSULATED DOOR
--	VESTIBULE	152	152A	3'-0" x 7'-0"	1 3/4"	B	Left	WOOD	PAINT	STEEL	PAINT	NONE	8	NO	
--	VESTIBULE	152	152B	3'-0" x 7'-0"	1 3/4"	C	Right	MTL	PAINT	STEEL	PAINT	NONE	8A	NO	METAL INSULATED DOOR
--	VESTIBULE	152	152C	3'-0" x 7'-0"	1 3/4"	B	Left	WOOD	PAINT	STEEL	PAINT	NONE	8	NO	--
--	CLOSET	153	153A	2'-8" x 7'-0"	1 3/4"	B	Right	WOOD	PAINT	STEEL	PAINT	NONE	10	NO	--
--	WAITING	154	154A	3'-0" x 7'-0"	1 3/4"	B	Right	WOOD	PAINT	STEEL	PAINT	NONE	10	NO	--
--	CLOSET	155	155A	2'-8" x 7'-0"	1 3/4"	B	Right	WOOD	PAINT	STEEL	PAINT	NONE	4	NO	--
--	CLOSET	156	156A	2'-8" x 7'-0"	1 3/4"	B	Left	WOOD	PAINT	STEEL	PAINT	NONE	4	NO	--
--	CLOSET	157	157A	2'-8" x 7'-0"	1 3/4"	B	Left	WOOD	PAINT	STEEL	PAINT	NONE	3A	NO	--
--	CLOSET	158	158A	2'-8" x 7'-0"	1 3/4"	B	Left	WOOD	PAINT	STEEL	PAINT	NONE	4	NO	--
--	CLOSET	159	159A	2'-8" x 7'-0"	1 3/4"	B	Right	WOOD	PAINT	STEEL	PAINT	NONE	4	NO	--
--	CLOSET	160	160A	2'-8" x 7'-0"	1 3/4"	B	Right	WOOD	PAINT	STEEL	PAINT	NONE	3	NO	--
--	CLOSET	161	161A	2'-8" x 7'-0"	1 3/4"	B	Left	WOOD	PAINT	STEEL	PAINT	NONE	3	NO	--
--	CLOSET	162	162A	2'-8" x 7'-0"	1 3/4"	B	Left	WOOD	PAINT	STEEL	PAINT	NONE	4	NO	--
--	CLOSET	163	163A	3'-0" x 7'-0"	1 3/4"	B	Right	WOOD	PAINT	STEEL	PAINT	NONE	3	NO	--
--	CLOSET	163	163B	3'-0" x 7'-0"	1 3/4"	B	Left	WOOD	PAINT	STEEL	PAINT	NONE	3A	NO	--



DOOR TYPES 2

SCALE: 3/16" = 1'-0"

NOTES:
1. CONTRACTOR TO FIELD VERIFY DIMENSIONS OF EXISTING OPENING FOR DOORS & WINDOWS TO BE LOCATED WITHIN EXISTING WINDOW / DOOR FRAMED OPENINGS.

Electrical Room 136
Egress Door
SEE RFI # 008-003

GENERAL NOTES

1. ALL GLAZING IN HAZARDOUS AREAS MUST MEET THE REQUIREMENTS FOR SAFETY GLAZING UNDER I.B.C. SECTION 2406.

2. PROVIDE INT DR. BUMPER DET & BACKING ,TYP. PROVIDE AT ALL DOORS THAT SWING INTO GYP. BD.

3. PAINT ALL INT DR. LITE FRAMES TO MATCH ADJACENT DR. AND FRAME.

4. ALL EXTERIOR GLAZING TO BE CLEAR

5. ALL DR. FRAMES SHALL HAVE SILENCERS INSTALLED AFTER PAINTING IS COMPLETE.

6. STOPS SHALL BE INSTALLED AT ALL DR. LOCATIONS.

7. CONTRACTOR TO PROVIDE HARDWARE SET CONSULTANT

8. HARDWARE HEIGHT, DOOR HANDLES, PULLS, LATCHES, LOCKS & OTHER OPERATING DEVICES SHALL BE INSTALLED 34" MIN. & 48" MAX. ABOVE THE FINISHED FLOOR

NOTE:
CONTRACTOR TO PROVIDE DOOR HARDWARE SUBMITTAL TO ARCHITECT TO INCLUDE ALL NECESSARY ITEMS FOR COMPLETE OPERABLE SYSTEMS. ALL HARDWARE SHALL BE ADA COMPLIANT. COORDINATE LOCKSET TYPE WITH OWNER. HARDWARE TO INCLUDE CLOSERS, LOCKSETS, HINGES, WEATHERSTRIPPING, ETC.

REVISIONS
1 PLAN CHECK REVISIONS - 9/4/14
1 PLAN CHECK REVISIONS - 10/7/14
1 PLAN CHECK REVISIONS - 12/3/14

ARCHITECT
kme ARCHITECTS
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6795 WEST RUSSELL ROAD, SUITE 200
LAS VEGAS, NEVADA 89118
P: 702-889-2089 / F: 702-886-2069
WEB: www.kmearchitects.com
CONSULTANT

WESTSIDE SCHOOL HISTORIC REHABILITATION
330 W. WASHINGTON AVE.
LAS VEGAS, NEVADA 89106
CLV PLANS LIBRARY NUMBER: 715-175-1
BID NUMBER: 12.43221-TF
1948 ANNEX - DOOR SCHEDULE

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AUGUST 4, 2014

CONSTRUCTION DOCUMENTS

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

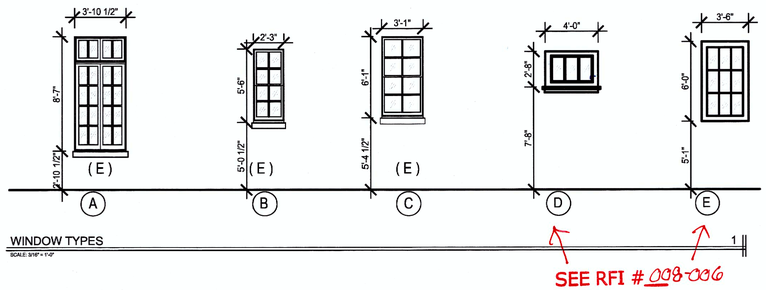
400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6535
FAX: (702) 382-3232
TDD: (702) 386-9108

DRAWN L.R.
FILE 2012-007
DATE 08-11-2014
SCALE NTS
BID NO 12.43221-TF
CLV DWG NO 715-175-1
SHT NO A9.04

REVISED 8/14/13

WINDOW SCHEDULE - 1923 BUILDING

REV NO.	ROOM NAME	ROOM NO.	MARK	WINDOW				FRAME		GLAZING		RATING	REMARKS
				WIDTH	HEIGHT	TYPE	HEAD	MAT.	FIN.	THK.	TYPE		
--	HALLWAY	100	100A	4'-0"	2'-8"	D	--	WOOD	PAINT	1/4"	GLASS	NONE	--
--	HALLWAY	100	100B	4'-0"	2'-8"	D	--	WOOD	PAINT	1/4"	GLASS	NONE	--
--	HALLWAY	100	100C	4'-0"	2'-8"	D	--	WOOD	PAINT	1/4"	GLASS	NONE	--
--	HALLWAY	100	100D	4'-0"	2'-8"	D	--	WOOD	PAINT	1/4"	GLASS	NONE	--
--	HALLWAY	100	100E	4'-0"	2'-8"	D	--	WOOD	PAINT	1/4"	GLASS	NONE	--
--	HALLWAY	100	100F	4'-0"	2'-8"	D	--	WOOD	PAINT	1/4"	GLASS	NONE	--
--	HALLWAY	100	100G	4'-0"	2'-8"	D	--	WOOD	PAINT	1/4"	GLASS	NONE	--
--	HALLWAY	100	100H	4'-0"	2'-8"	D	--	WOOD	PAINT	1/4"	GLASS	NONE	--
--	HALLWAY	100	100I	4'-0"	2'-8"	D	--	WOOD	PAINT	1/4"	GLASS	NONE	--
--	HALLWAY	100	100J	4'-0"	2'-8"	D	--	WOOD	PAINT	1/4"	GLASS	NONE	--
--	MEETING ROOM	101	101A	3'-10"	8'-7"	A	--	WOOD	PAINT	1/4"	GLASS	NONE	--
--	MEETING ROOM	101	101B	3'-10"	8'-7"	A	--	WOOD	PAINT	1/4"	GLASS	NONE	--
--	MEETING ROOM	101	101C	3'-10"	8'-7"	A	--	WOOD	PAINT	1/4"	GLASS	NONE	--
--	MEETING ROOM	101	101D	3'-10"	8'-7"	A	--	WOOD	PAINT	1/4"	GLASS	NONE	--
--	MEETING ROOM	101	101E	3'-10"	8'-7"	A	--	WOOD	PAINT	1/4"	GLASS	NONE	--
--	WOMEN'S RESTRM	102	102A	2'-3"	5'-6"	B	--	WOOD	PAINT	1/4"	GLASS	NONE	--
--	WOMEN'S RESTRM	102	102B	2'-3"	5'-6"	B	--	WOOD	PAINT	1/4"	GLASS	NONE	--
--	WOMEN'S RESTRM	102	102C	3'-6"	6'-0"	E	--	WOOD	PAINT	1/4"	GLASS	NONE	--
--	CLOSET	103	103A	2'-3"	5'-6"	B	--	WOOD	PAINT	1/4"	GLASS	NONE	--
--	EXHIBIT HALL	105	105A	3'-10"	8'-7"	A	--	WOOD	PAINT	1/4"	GLASS	NONE	--
--	EXHIBIT HALL	105	105B	3'-10"	8'-7"	A	--	WOOD	PAINT	1/4"	GLASS	NONE	--
--	EXHIBIT HALL	105	105C	3'-10"	8'-7"	A	--	WOOD	PAINT	1/4"	GLASS	NONE	--
--	EXHIBIT HALL	105	105D	3'-10"	8'-7"	A	--	WOOD	PAINT	1/4"	GLASS	NONE	--
--	EXHIBIT HALL	105	105E	3'-10"	8'-7"	A	--	WOOD	PAINT	1/4"	GLASS	NONE	--
--	MEETING ROOM	106	106A	3'-10"	8'-7"	A	--	WOOD	PAINT	1/4"	GLASS	NONE	--
--	MEETING ROOM	106	106B	3'-10"	8'-7"	A	--	WOOD	PAINT	1/4"	GLASS	NONE	--
--	MEETING ROOM	106	106C	3'-10"	8'-7"	A	--	WOOD	PAINT	1/4"	GLASS	NONE	--
--	MEETING ROOM	106	106D	3'-10"	8'-7"	A	--	WOOD	PAINT	1/4"	GLASS	NONE	--
--	MEETING ROOM	106	106E	3'-10"	8'-7"	A	--	WOOD	PAINT	1/4"	GLASS	NONE	--
--	FIRE RISER ROOM	109	109A	2'-3"	5'-6"	B	--	WOOD	PAINT	1/4"	GLASS	NONE	--
--	MEN'S RESTRM	110	110A	2'-3"	5'-6"	B	--	WOOD	PAINT	1/4"	GLASS	NONE	--
--	MEN'S RESTRM	110	110B	2'-3"	5'-6"	B	--	WOOD	PAINT	1/4"	GLASS	NONE	--
--	MEN'S RESTRM	110	110C	3'-6"	6'-0"	E	--	WOOD	PAINT	1/4"	GLASS	NONE	--
--	OFFICE	111	111A	2'-3"	5'-6"	B	--	WOOD	PAINT	1/4"	GLASS	NONE	--
--	EXHIBIT HALL	112	112A	3'-10"	8'-7"	A	--	WOOD	PAINT	1/4"	GLASS	NONE	--
--	EXHIBIT HALL	112	112B	3'-10"	8'-7"	A	--	WOOD	PAINT	1/4"	GLASS	NONE	--
--	EXHIBIT HALL	112	112C	3'-10"	8'-7"	A	--	WOOD	PAINT	1/4"	GLASS	NONE	--
--	EXHIBIT HALL	112	112D	3'-10"	8'-7"	A	--	WOOD	PAINT	1/4"	GLASS	NONE	--
--	EXHIBIT HALL	112	112E	3'-10"	8'-7"	A	--	WOOD	PAINT	1/4"	GLASS	NONE	--
--	EXHIBIT HALL	112	112F	3'-1"	6'-1"	C	--	WOOD	PAINT	1/4"	GLASS	NONE	--
--	EXHIBIT HALL	112	112G	3'-1"	6'-1"	C	--	WOOD	PAINT	1/4"	GLASS	NONE	--
--	EXHIBIT HALL	112	112H	3'-1"	6'-1"	C	--	WOOD	PAINT	1/4"	GLASS	NONE	--
--	STORAGE	113	113A	3'-10"	8'-7"	A	--	WOOD	PAINT	1/4"	GLASS	NONE	--



NOTE:
1. PROVIDE STORM SASH ON THE INSIDE OF ALL EXTERIOR WINDOWS

2. (E) EXISTING HISTORIC WINDOW

3. NEW WINDOWS IN MEN'S AND WOMEN'S RESTROOM TO BE WHITE LAMINATED GLASS . EXISTING EXTERIOR WINDOWS IN MEN'S AND WOMEN'S RESTROOM TO BE WHITE LAMINATED GLASS STORM WINDOWS ON INTERIOR SIDE.

GENERAL NOTES

1.	VERIFY ALL DIMENSIONS IN FIELD PRIOR TO FABRICATION
2.	GLAZING IN HAZARDOUS AREAS SHALL BE SAFETY GLAZING UNDER PROVISIONS OF I.B.C SECTION 2406
3.	ALL FRAME ELEVATIONS ARE VIEWED FROM THE EXTERIOR OF THE BUILDING
4.	ALL HOLLOW METAL FRAMES TO BE 16 GA.
5.	GRIND ALL WELDS SMOOTH
6.	H.M.F. = HOLLOW METAL FRAME
7.	ALUMINUM, VINYL, & WOOD EXT. WINDOWS & DOORS SHALL BE LABELED AS CONFORMING TO AAMA/NWWDA 101/II.S.2

REVISIONS
1 PLAN CHECK REVISIONS - 9/4/14
2 PLAN CHECK REVISIONS - 10/7/14
3 PLAN CHECK REVISIONS - 12/3/14

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6765 WEST RUSSELL ROAD, SUITE 200
LAS VEGAS, NEVADA 89118
P: 702-685-2069 / F: 702-685-2089
WEB: www.kmearchitects.com
CONSULTANT

WESTSIDE SCHOOL HISTORIC REHABILITATION
330 W. WASHINGTON AVE.
LAS VEGAS, NEVADA 89106

BID NUMBER: 12.43221-TF

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1923 BUILDING - WINDOW SCHEDULE

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AUGUST 4, 2014

CONSTRUCTION DOCUMENTS

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

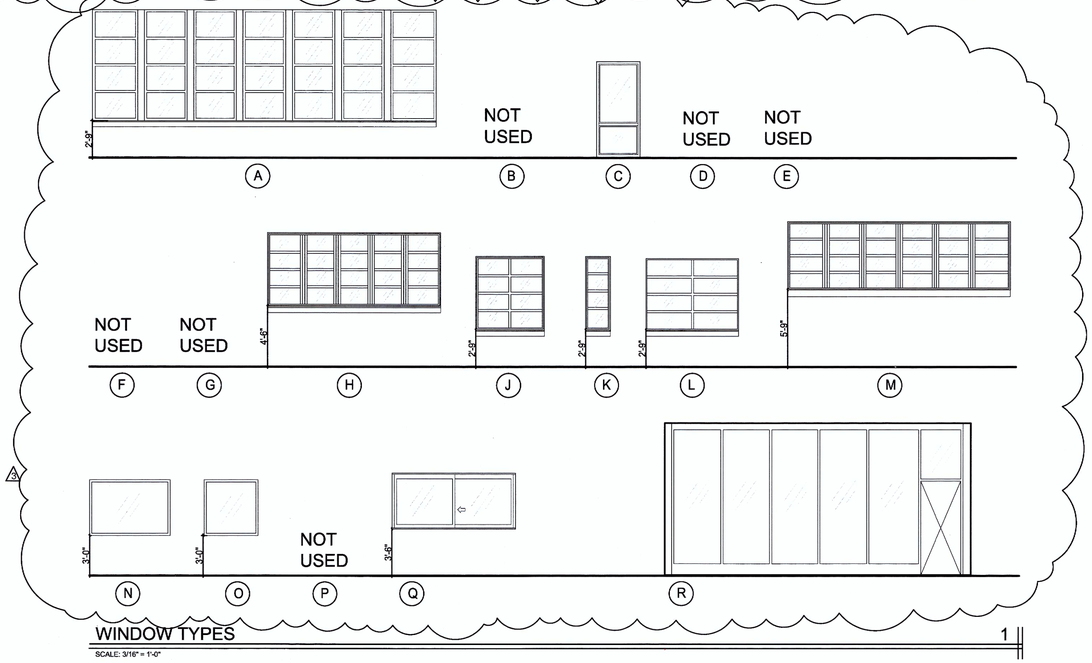
400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6535
FAX: (702) 382-3232
TDD: (702) 386-9108

DRAWN L.R.
FILE 2012-007
DATE 08-11-2014
SCALE NTS
BID NO 12.43221-TF
CLV DWG NO 715-175-1
SHT NO
A9.05

REVISED 8/14/13

WINDOW SCHEDULE 1948 BLDG

REV NO.	ROOM NAME	ROOM NO.	MARK	WINDOW WIDTH	WINDOW HEIGHT	WINDOW TYPE	WINDOW HEAD	FRAME MAT.	FRAME FIN.	GLAZING THK.	GLAZING TYPE	RATING	REMARKS
--	RETAIL	101	101A	25'-10"	8'-0"	A	--	STEEL	PAINT	1"	INSUL.	NONE	--
--	RETAIL	101	101B	3'-4"	7'-2"	C	--	STEEL	PAINT	1"	INSUL.	NONE	
--	RETAIL	105	105A	25'-10"	8'-0"	A	--	STEEL	PAINT	1"	INSUL.	NONE	--
--	RETAIL	105	105B	5'-0"	6'-0"	C	--	STEEL	PAINT	1"	INSUL.	NONE	
--	RETAIL	106	106A	25'-10"	8'-0"	A	--	STEEL	PAINT	1"	INSUL.	NONE	--
--	RETAIL	106	106B	3'-4"	7'-2"	C	--	STEEL	PAINT	1/4"	SING. PANE	NONE	EXISTING WINDOW TO HAVE STORM WINDOW
--	RETAIL	110	110A	25'-10"	8'-0"	A	--	STEEL	PAINT	1"	INSUL.	NONE	--
--	RETAIL	110	110B	3'-4"	7'-2"	C	--	STEEL	PAINT	1/4"	SING. PANE	NONE	EXISTING WINDOW TO HAVE STORM WINDOW
--	RETAIL	111	111A	25'-10"	8'-0"	A	--	STEEL	PAINT	1"	INSUL.	NONE	--
--	RETAIL	111	111B	3'-4"	7'-2"	C	--	STEEL	PAINT	1/4"	SING. PANE	NONE	EXISTING WINDOW TO HAVE STORM WINDOW
--	WOMEN'S RESTROOM	112	112A	12'-8"	5'-4"	H	--	STEEL	PAINT	1"	INSUL.	NONE	WHITE LAMINATED GLASS
--	RETAIL	117	117A	25'-10"	8'-0"	A	--	STEEL	PAINT	1"	INSUL.	NONE	--
--	RETAIL	117	117B	3'-4"	7'-2"	C	--	STEEL	PAINT	1/4"	SING. PANE	NONE	EXISTING WINDOW TO HAVE STORM WINDOW
--	RETAIL	118	118A	25'-10 "	8'-0"	A	--	STEEL	PAINT	1"	INSUL.	NONE	--
--	RETAIL	118	118B	3'-3 "	7'-2"	C	--	STEEL	PAINT	1/4"	SING. PANE	NONE	EXISTING WINDOW TO HAVE STORM WINDOW
--	PREP.	122	122A	25'-10"	8'-0"	A	--	STEEL	PAINT	1"	INSUL.	NONE	--
--	DINING	123	123A	5'-0"	5'-4"	J	--	STEEL	PAINT	1"	INSUL.	NONE	--
--	DINING	123	123B	7'-0"	5'-4"	L	--	STEEL	PAINT	1"	INSUL.	NONE	--
--	DINING	123	123C	5'-1 1/2"	5'-4"	J	--	STEEL	PAINT	1/4"	SING. PANE	NONE	EXISTING WINDOW TO HAVE STORM WINDOW
--	DINING	123	123D	5'-2"	5'-4"	J	--	STEEL	PAINT	1/4"	SING. PANE	NONE	EXISTING WINDOW TO HAVE STORM WINDOW
--	WAITING ROOM	125	125A	5'-2"	5'-6"	J	--	STEEL	PAINT	1"	INSUL.	NONE	--
--	WAITING ROOM	125	125B	5'-2"	5'-6"	J	--	STEEL	PAINT	1/4"	SING. PANE	NONE	EXISTING WINDOW TO HAVE STORM WINDOW
--	UNISEX BATHROOM	126	126A	3'-3"	7'-2"	K	--	STEEL	PAINT	1"	INSUL.	NONE	WHITE LAMINATED GLASS
--	UNISEX BATHROOM	126	126B	3'-3"	7'-2"	K	--	STEEL	PAINT	1"	INSUL.	NONE	WHITE LAMINATED GLASS
--	RECEPTIONIST	127	127A	3'-3"	7'-2"	J	--	STEEL	PAINT	1/4"	SING. PANE	NONE	EXISTING WINDOW TO HAVE STORM WINDOW
--	RECEPTIONIST	127	127B	9'-3"	4'-2"	Q	--	STEEL	PAINT	1"	INSUL.	NONE	--
--	CONTROL ROOM	128	128A	4'-0"	4'-2"	O	--	STEEL	PAINT	1"	INSUL.	NONE	SOUND PROOF WINDOW
--	CONTROL ROOM	128	128B	6'-0"	4'-2"	N	--	STEEL	PAINT	1"	INSUL.	NONE	SOUND PROOF WINDOW
--	NEWS	131	131A	4'-0"	4'-2"	O	--	STEEL	PAINT	1"	INSUL.	NONE	SOUND PROOF WINDOW
--	PRODUCTION	132	132A	4'-0"	4'-2"	O	--	STEEL	PAINT	1"	INSUL.	NONE	SOUND PROOF WINDOW
--	PRODUCTION	132	132B	4'-0"	4'-2"	O	--	STEEL	PAINT	1"	INSUL.	NONE	SOUND PROOF WINDOW
	PRODUCTION	132	132C	25'-10"	8'-0"	A	--	STEEL	PAINT	1"	INSUL.	NONE	
--	OPEN OFFICE	137	137A	3'-3"	7'-2"	C	--	STEEL	PAINT	1/4"	SING. PANE	NONE	EXISTING WINDOW TO HAVE STORM WINDOW
--	CONFERENCE ROOM	138	138A	25'-10"	8'-0"	A	--	STEEL	PAINT	1"	INSUL.	NONE	--
--	CONFERENCE ROOM	138	138B	21'-1"	11'-4"	R	--	STEEL	PAINT	1"	INSUL.	NONE	--
--	OFFICE	140	140A	3'-3"	7'-2"	C	--	STEEL	PAINT	1/4"	SING. PANE	NONE	EXISTING WINDOW TO HAVE STORM WINDOW
--	OFFICE	140	140B	25'-10"	8'-0"	A	--	STEEL	PAINT	1"	INSUL.	NONE	--
--	OFFICE	147	147A	16'-7 1/2"	5'-0"	M	--	STEEL	PAINT	1"	INSUL.	NONE	--



WINDOW TYPES 1

SCALE: 3/16" = 1'-0"

NOTES:
1. CONTRACTOR TO FEILD VERIFY DIMENSIONS OF EXISTING OPENING FOR WINDOWS TO BE LOCATED WITHIN EXISTING WINDOW OPENINGS.

GENERAL NOTES

1.	VERIFY ALL DIMENSIONS IN FIELD PRIOR TO FABRICATION
2.	GLAZING IN HAZARDOUS AREAS SHALL BE SAFETY GLAZING UNDER PROVISIONS OF I.B.C SECTION 2406
3.	ALL FRAME ELEVATIONS ARE VIEWED FROM THE EXTERIOR OF THE BUILDING
4.	ALL HOLLOW METAL FRAMES TO BE 16 GA.
5.	GRIND ALL WELDS SMOOTH
6.	H.M.F. = HOLLOW METAL FRAME
7.	A.F. = ALUMINUM FRAME
8.	ALUMINUM, VINYL, & WOOD EXT. WINDOWS & DOORS SHALL BE LABELED AS CONFORMING TO AAMA/NWWDA 101/II.S.2

glass glazing requirements
SEE RFI #008-001

REVISIONS
1 PLAN CHECK REVISIONS - 9/4/14
2 PLAN CHECK REVISIONS - 10/7/14
3 PLAN CHECK REVISIONS - 12/3/14

ARCHITECT
kme ARCHITECTS
© KME Architects LLC. 2014
6705 WEST RUSSELL ROAD, SUITE 200
LAS VEGAS, NEVADA 89118
P: 702-896-3366 / F: 702-896-3369
WEB: www.kmearchitects.com
CONSULTANT

BID NUMBER: 12.43221-TF

WESTSIDE SCHOOL HISTORIC REHABILITATION
330 W. WASHINGTON AVE.
LAS VEGAS, NEVADA 89106
CLV PLANS LIBRARY NUMBER: 715-175-1

1948 ANNEX - WINDOW SCHEDULE

STAMP
MELVIN D. GREEN REGISTERED No. 2249 ARCHITECT STATE OF NEVADA

AUGUST 4, 2014

CONSTRUCTION DOCUMENTS

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6535
FAX: (702) 382-3232
TDD: (702) 386-9108

DRAWN L.R.
FILE 2012-007
DATE 08-11-2014
SCALE NTS
BID NO 12.43221-TF
CLV DWG NO 715-175-1
SHT NO A9.06

REVISED 8/14/13

SYMBOL LIST

(AS APPLICABLE)

SEE RFI # 026-040

- FLUORESCENT FIXTURE
  LETTER INDICATES LIGHT FIXTURE AS NEW OR EXISTING
- FLUORESCENT FIXTURE ON EMERGENCY OR WITH EMERGENCY BATTERY BALLAST UNIT.
- DOWNLIGHT FIXTURE ON EMERGENCY OR WITH EMERGENCY BATTERY BALLAST UNIT.
- DOWNLIGHT FIXTURE.
- WALL MOUNTED FIXTURE.
- POST MOUNTED FIXTURE.
- POLE MOUNTED FIXTURE.
- SPOT OR FLOOD LIGHT.
- WALL WASHER
- DECORATIVE FIXTURE FURNISHED BY OTHERS
- EXIT SIGN W/ DIRECTIONAL ARROWS WHERE INDICATED - UNIVERSAL MOUNTED.
- EXIT SIGN W/ DUAL HEADS - UNIVERSAL MOUNTED
- EMERGENCY BATTERY UNIT W/ DUAL HEADS.
- TRACK LIGHT WITH FIXTURES
- FIXTURE WITH STANDARD SELECTOR UNIT OR APPROVED JUNCTION BOX WITH MODULAR SELECTOR CABLE OR MC CABLE
- CONVERSION MODULE OR APPROVED JUNCTION BOX
- S — SINGLE POLE SWITCH @ +48" UNLESS NOTED.
- S^{abc} — SWITCH BANK @ +48" UNLESS NOTED.
  LOWER CASE LETTER INDICATES FIXTURE CONTROLLED.
- S_2 — DOUBLE POLE SWITCH @ +48" UNLESS NOTED
- S_3 — 3-WAY SWITCH @ +48" UNLESS NOTED
- S_4 — 4-WAY SWITCH @ +48" UNLESS NOTED
- S_D — DIMMER SWITCH - SIZE AS REQUIRED @ +48" UNLESS NOTED.
- S_K — SWITCH - KEY OPERATED. @ + 48" UNLESS NOTED.
- S_M — MOTION SENSOR SWITCH @ +48" UNLESS NOTED.
- S_P — SWITCH WITH PILOT LIGHT. @ + 48" UNLESS NOTED.
- S_T — SINGLE POLE SWITCH EQUIPPED WITH PROGRAMMBLE TIMER
  HONEYWELL MODEL #RPLS540A1002U
- SINGLE RECEPTACLE @ +18" UNLESS NOTED.
- 120V DUPLEX RECEPTACLE @ +18" UNLESS NOTED.
- 208V DUPLEX RECEPTACLE @ +18" UNLESS NOTED.
- GFI DUPLEX RECEPTACLE @ +18" UNLESS NOTED
- DUPLEX FLOOR RECEPTACLES
- DUPLEX RECEPTACLE - CEILING MOUNTED.
- 120V QUAD RECEPTACLE @ +18" UNLESS NOTED.
- 208V QUAD RECEPTACLE @ +18" UNLESS NOTED.
- GFI QUAD RECEPTACLE @ +18" UNLESS NOTED.
- 120V SPECIAL RECEPTACLE @ +18" UNLESS NOTED. PROVIDE WITH MATCHING CORD CAP.
- 208V SPECIAL RECEPTACLE @ +18" UNLESS NOTED. PROVIDE WITH MATCHING CORD CAP.
- ISOLATED GROUND TYPE (ORANGE) QUAD RECEPTACLE @ +18" UNLESS NOTED.
- ISOLATED GROUND TYPE (ORANGE) DUPLEX RECEPTACLE @ +18" UNLESS NOTED.
- 1/2 SWITCHED RECEPTACLE @ +18" UNLESS NOTED.
- PLUG MOLD WITH OUTLETS AS INDICATED.
- CLOCK RECEPTACLE OR OUTLET @ +90" UNLESS NOTED.
- TELEVISION ANTENNA OUTLET @ +18" UNLESS NOTED.
- TELEPHONE OUTLET@ +18" UNLESS NOTED.
- DATA OUTLET @ +18" UNLESS NOTED.
- COMBINATION TELEPHONE/DATA OUTLET @ +18" UNLESS NOTED.
- INTERCOM OUTLET @+18" UNLESS NOTED.
- VOLUME CONTROL OUTLET @ +54" UNLESS NOTED.
- MICROPHONE OUTLET-WALL MOUNTED.
- FLUSH FLOOR (OR PEDESTAL) COMB. TELE/DATA OUTLET
- DATA OUTLET.
- TELEPHONE OUTLET.
- MICROPHONE OUTLET.
- SPEAKER, CAN, AND GRILLE.
- CAMERA OUTLET.
- FIRE ALARM MANUAL STATION @ +48".
- DUCT DETECTOR.
- HEAT DETECTOR.
- SMOKE DETECTOR.
- BELL WALL MOUNTED.
- MAGNETIC DOOR HOLDER.
- FIRE ALARM HORN WALL MOUNTED.
- FIRE ALARM HORN CEILING MOUNTED.
- FIREMANS PHONE JACK.
- FIRE ALARM SPEAKER-WALL MOUNTED.
- FIRE ALARM SPEAKER-CEILING MOUNTED.
- COMBINATION FIRE ALARM WITH ADA STROBE.
- FLOW SWITCH.
- TAMPER SWITCH.
- STAND ALONE SMOKE DETECTOR WITH AUDIBLE DEVICE.

- THERMOSTAT OUTLET @ +48" UNLESS NOTED.
- AUXILIARY SYSTEM TERMINAL CABINET.
- SWITCHBOARD, MOTOR CONTROL CENTER OR DISTRIBUTION BOARD
- 208/120 — 120/208V., 3 PHASE, 4 WIRE PANELBOARD.
- 480/277 — 277/480V., 3 PHASE, 4 WIRE PANELBOARD.
- JUNCTION BOX.
- SHUNT TRIP OR PUSHBUTTON STATION.
- MAGNETIC COIL.
- MAGNETIC CONTACTOR
- RELAY.
- TRANSFORMER.
- TIME SWITCH.
- EXHAUST FAN OR MOTOR OUTLET.
- MAGNETIC MOTOR STARTER- SIZE AS INDICATED.
- FUSED DISCONNECT SWITCH.- SIZE AS INDICATED.
- NON-FUSED DISCONNECT SWITCH.- SIZE AS INDICATED.
- COMBINATION STARTER AND DISCONNECT SWITCH.- SIZE AS INDICATED.
- FEEDER - SIZE AS INDICATED. SEE FEEDER SCHEDULE.
- FOOD SERVICE EQUIPMENT - SEE FOOD SERVICE EQUIPMENT DRAWINGS
- MECHANICAL EQUIPMENT CONNECTION, SEE SCHED. ON MECH. PLAN
- PHOTOCELL
- PUSHBUTTON TYPE CONTROL STATION
- CONCRETE PULLBOX WITH STEEL HEAVY DUTY TRAFFIC COVER.
- SHUNT TRIP BUTTON
- SECURITY KEYPAD

- CONDUIT RUN CONCEALED IN WALL OR ABOVE CEILING.
- CONDUIT RUN BELOW FLOOR OR GRADE.
- —P— POWER FLOOR DUCT.
- —T— TELEPHONE FLOOR DUCT.
- CONDUIT WITH SEAL-OFF FITTING.
- —OH— OVERHEAD LINE.
- CONDUIT RISER.
- A-1,3,5 — HOMERUN: TO PANEL A, CIRCUITS 1,3,5.
- —E— EXISTING HOMERUN TO REMAIN
- —X— EXISTING HOMERUN TO BE REMOVED
- 1/2" - 2 #12 THHN/THWN UNLESS NOTED
- 1/2" - 3 #12
- 1/2" - 4 #12
- 3/4" - 5 #10
- 3/4" - 6 #10

  DOES NOT INCLUDE GROUND WIRE. IF REQUIRED ADD CODE SIZE GROUND
- CIRCUITING-STROKE WITH DOT INDICATES GROUNDING CONDUCTOR.
- —E— EXISTING CONDUIT AND/OR WIRE TO REMAIN.
- —X— EXISTING CONDUIT AND/OR WIRE TO BE REMOVED OR ABANDONED.
- CABLE TRAY
- BUS DUCT

INDICATES

ADA	AMERICAN DISABILITIES ACT
AFC	ABOVE FINISHED COUNTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GROUND
BC	BARE COPPER
C	CONDUIT W/ PULL LINE ONLY
CU	COPPER
EC	ELECTRICAL CONTRACTOR
EM	EMERGENCY
EWC	ELECTRIC WATER COOLER
F.B.O.	FURNISHED BY OTHERS
G.F.I	GROUND FAULT CIRCUIT INTERRUPTER
GRND	GROUND
NL	NIGHT LIGHT
PNL	PANEL
U.O.N.	UNLESS OTHERWISE NOTED
W.P.	WEATHER-PROOF (NEMA 3R)
XFMR	TRANSFORMER
+18"	MOUNTING HEIGHTS ARE TO CENTERLINE OF DEVICE ABOVE FINISH FLOOR OR FINISH GRADE. VERIFY EXACT MOUNTING HEIGHTS PER ADA REQUIREMENTS.

ELECTRICAL GENERAL NOTES

1. THE DRAWINGS REPRESENT THE FINISHED PROJECT UNLESS OTHERWISE NOTED. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, AND SEQUENCES.
2. ALL DIMENSIONS, EXISTING JOB SITE CONDITIONS, AND SERVICE REQUIREMENTS SHALL BE VERIFIED BY THE CONTRACTOR BEFORE THE START OF CONSTRUCTION AND/OR FABRICATION OF MATERIALS. IF DISCREPANCIES ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED FOR CLARIFICATION.
3. CONTRACTOR SHALL COORDINATE WORK BETWEEN ALL TRADES AND WORKMEN TO CLOSE, PATCH, AND REPAIR ALL HOLES WHERE ITEMS ARE REMOVED AND OPENINGS ARE REQUIRED AS NECESSARY FOR NEW WORK.
4. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (CURRENT EDITION THAT THE CLARK COUNTY HAS ADAPTED) AND ALL APPLICABLE STATE, COUNTY, AND LOCAL CODES APPLYING TO THE PROPOSED CONSTRUCTION. IN THE EVENT OF CONFLICT BETWEEN THE ABOVE AND THESE PLANS AND SPECIFICATIONS, THE MOST RESTRICTIVE SHALL GOVERN.
5. CONTRACTOR SHALL VERIFY ALL INFORMATION PERTAINING TO SERVICE BY THE UTILITIES AND SHALL INCLUDE THE COST OF ALL WORK BY OR FOR THEM IN HIS BID. CONTRACTOR SHALL COORDINATE AND CONFORM TO ALL THE UTILITY REQUIREMENTS.
6. ELECTRICAL CONTRACTOR SHALL PROVIDE A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM. CONTRACTOR TO PROVIDE FINAL CONNECTION TO OWNER SUPPLIED EQUIPMENT.
7. CONDUIT IS SHOWN DIAGRAMMATICALLY ONLY. EXACT ROUTING OF ALL CONDUITS WITHIN THE BUILDING SHALL BE DETERMINED BY THE CONTRACTOR. ANY COST REQUIRED TO ROUTE CONDUITS DIFFERENTLY THAN IS SHOWN ON THESE DRAWINGS SHALL BE INCURRED BY THE ELECTRICAL CONTRACTOR.
8. ALL MATERIALS AND EQUIPMENT SHALL BE DELIVERED TO THE SITE NEW, IN THEIR ORIGINAL UNBROKEN PACKAGES BEARING APPROVAL BY U.L., NEMA, OR OTHER APPROPRIATE AGENCY, AND INSTALLED PER THEIR GUIDELINES. PER PROPER DUST CONTROL.
9. CONTRACTOR SHALL PROVIDE A COMPLETE AND FUNCTIONING ELECTRICAL SYSTEM MEETING THE INTENT OF THESE PLANS AND SPECIFICATIONS. ALL SYSTEMS SHALL BE IN BEFORE INSPECTION.
10. CONTRACTOR SHALL MAINTAIN GROUND CONTINUITY TO EVERY OUTLET PER N.E.C., TABLE 250-122. PROVIDE A GREEN CONDUCTOR (NOT INDICATED) IN EACH RACEWAY. SIZE OF GROUNDING CONDUCTOR PER NEC ART 250.
11. ALL WIRES AND CABLES SHALL BE COPPER, 600 VOLT, #12 AWG MINIMUM. EXCEPT CONTROL WIRING WHICH SHALL BE #18 THWN. CONDUCTORS SHALL BE STRANDED. TYPE OF INSULATION AS NOTED ON DRAWINGS AND AS FOLLOWS:
    - THHN/THWN INSULATION FOR ALL BRANCH CIRCUIT WIRING & CONTROL CIRCUIT WIRING.
    - XHHW USED FOR ALL PANEL FEEDERS AND SERVICE CONDUCTORS
    - THHN/THWN INSULATION TYPE SHALL BE USED WHERE CONDUCTORS ARE INSTALLED IN CONDUITS EXPOSED TO THE WEATHER.
12. CONTRACTOR IS RESPONSIBLE FOR ALL CORING, CUTTING, PATCHING, AND REFINISHING OF WALLS AND SURFACES WHENEVER IT IS NECESSARY TO PENETRATE. ALL OPENINGS MADE SHALL BE SEALED TO MEET THE FIRE RATING AND STRUCTURAL INTEGRITY OF THE PARTICULAR WALL, FLOOR, OR CEILING.
13. ALL ELECTRICAL FIXTURES AND EQUIPMENT SHALL BE GROUNDED. GROUNDING WIRE SHALL BE SIZED PER N.E.C. 250
14. ELECTRICAL CONTRACTOR SHALL FURNISH TEMPORARY CONSTRUCTION POWER WHERE REQUIRED.
15. CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL CONNECTIONS POINTS FOR MECHANICAL, PLUMBING EQUIPMENT AND THERMOSTATS. PROVIDE FINAL CONNECTION TO EQUIPMENT.
16. ALL PANELS, SWITCHES, ETC., SHALL HAVE SUFFICIENT GUTTER SPACE AND LUGS IN COMPLIANCE WITH UL REQUIREMENTS TO ACCOMMODATE CONDUCTORS ENTERING THE BOX.
17. CONTRACTOR TO COORDINATE LOCATION OF WALL OUTLET BOXES FOR SWITCHES, HORNS, FIRE ALARM PULL STATIONS, RECEPTACLES, ETC. WITH SHELVES, STACKS AND FURNITURE LOCATIONS. ADJUST AS REQUIRED.
18. WHERE ELECTRIC WATER HEATERS ARE INSTALLED, PROVIDE A DISCONNECT SWITCH IN AN ACCESSIBLE LOCATION.
19. FURNISH AN APPROVED EXPANSION FITTING WHERE RACEWAY CROSSES AN EXPANSION JOINT.
20. PROVIDE PULL BOXES IN LONG RUNS (GREATER THAN 100') OR AS REQUIRED TO EASE THE TENSION ON WIRE DURING PULLING OF CONDUCTORS.
21. PROVIDE PULL WIRE IN EMPTY CONDUITS INSTALLED AND CAP OFF.
22. SEE MECHANICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL CONNECTION REQUIREMENTS TO CONTROL PANELS, CONTROL TRANSFORMERS, TIME CLOCKS, VALVES, T-STAT RELAYS AND DUCT SMOKE DETECTORS.
23. ALL EXTERIOR ELECTRICAL DEVICES AND EQUIPMENT INCLUDING THOSE EXPOSED TO THE OUTSIDE ENVIRONMENT SHALL BE WEATHERPROOF TYPE, NEMA 3R.
24. WHERE MORE THAN ONE LIGHT SWITCH OCCURS AT THE SAME LOCATION, SWITCHES SHALL BE MOUNTED IN A MULTIPLE GANG BOX UNDER A SINGLE COVER PLATE.
25. DISCONNECT SWITCHES SHALL BE MOUNTED ON INDIVIDUAL SUPPORTS OR OTHERWISE DIRECTLY ON THE EQUIPMENT, PROVIDED THAT NO MODIFICATION SHALL OCCUR ON THE EQUIPMENT AND THAT THE UL LISTING FOR THE EQUIPMENT IS NOT COMPROMISED.
26. ALL ELECTRICAL POWER, LIGHTING, TELEPHONE OR SIGNAL WIRING IN FIRE RATED AREAS ARE TO BE INSTALLED IN METALLIC CONDUITS. ALL WALL PENETRATIONS SHALL BE PROVIDED WITH A FIRE RESISTANT SEALANT.
27. CONTRACTOR TO PAY PERMIT AND ALL APPLICABLE FEES RELATIVE TO THE CONSTRUCTION OF THIS PROJECT.
28. ALL UNDERGROUND CONDUITS SHALL BE PVC OR PVC COATED RGS. IN A TRANSITIONAL RISER, ALL PARTS OF THE CONDUIT SYSTEM THAT IS BELOW GRADE SHALL BE PVC OR PVC COATED RGS UP TO 6" ABOVE GRADE.
29. FOR SPLIT SYSTEM AIR CONDITIONING UNITS, PROVIDE A PORCELAIN KEYLESS LAMP RECEPTACLE, A SWITCH AND A RECEPTACLE FOR FAN COIL UNIT. CONNECT TO NEAREST RECEPTACLE.
30. PROVIDE SPARE (6) 1" CONDUITS STUB UP INTO CEILING SPACE FOR ALL FLUSH MOUNTED PANEL. INFORM ARCHITECT THAT WALL SHOULD BE AT LEAST 6" THICK.
31. FOR SPLIT SYSTEM HVAC UNITS. VERIFY IF FAN COIL UNITS IS PROVIDED WITH CONTROL CONTACTOR AND OVERLOAD PROTECTION. PROVIDE AS REQUIRED.
32. UNLESS OTHERWISE NOTED, ONLY THE SIZE AND NUMBER OF WIRES ARE SHOWN ON THE PLAN. CONTRACTOR TO BE RESPONSIBLE FOR SIZING THE CONDUIT BASED ON NEC.
33. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF LIGHTING FIXTURES. PRIOR TO FRAMING, CONTRACTOR SHALL VERIFY WEIGHT OF DECORATIVE FIXTURES WITH OWNER AND SHALL PROVIDE ADDITIONAL FRAMING AS REQUIRED FOR SUPPORT.
34. UNLESS NOTED OTHERWISE, PROVIDE CONDUIT WITH CAT5 (MINIMUM) AND/OR COAXIAL CABLE FOR ALL AUXILIARY SYSTEM DEVICES (TELEPHONE, DATA, SECURITY, TV, ETC). COORDINATE REQUIREMENTS WITH VENDOR.

SEE RFI #_026-006
Data, Power, Switches - Horizontal Dimensions

DRAWING INDEX

SHEET NUMBER:	SHEET NAME:
E1.00	ELECTRICAL GEN. NOTES, SYMBOLS, ABBREV, DRAWING INDEX
E1.10	ELECTRICAL SPECIFICATIONS
E2.00	ELECTRICAL DEMOLITION PLANS
E3.00	LIGHTING PLAN – 1923 BUILDING
E3.10	(NOT USED)
E3.15	LIGHTING PLAN – 1948 ANNEX BUILDING (WITH T.I. FOR KCEP STATION)
E3.20	LIGHTING FIXTURE SCHEDULE, ENERGY MANAGEMENT SYSTEM
E4.00	POWER & AUXILIARY PLAN – 1923 BUILDING
E4.10	(NOT USED)
E4.15	POWER & AUXILIARY PLAN – 1948 ANNEX BUILDING (WITH T.I. FOR KCEP STATION)
E4.20	HVAC POWER PLAN – 1948 ANNEX BUILDING
E5.00	ELECTRICAL DEMOLITION SITE PLAN
E5.10	ELECTRICAL SITE PLAN
E5.20	SITE LIGHTING PLAN
E5.20	SITE LIGHTING PHOTOMETRICS
E6.00	SINGLE LINE DIAGRAM – 1948 ANNEX BUILDING
E6.10	SINGLE LINE DIAGRAM – 1923 BUILDING
E7.00	PANEL SCHEDULES

REVISIONS
1 --
2 --
3 OWNER'S REVISION

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kme ARCHITECTS ®

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6765 WEST RUSSELL ROAD, SUITE 200
LAS VEGAS, NEVADA 89118
P: 702-888-2088 / F: 702-888-2089
WEB: www.kmearchitects.com

CONSULTANT
pid consulting engineers/designers
pidconsultingllc@gmail.com
Arizona California Idaho Montana Nevada Utah Wyoming
15611 W Gross Avenue
Goodyear, AZ 85338
P: (702)366-0634
pidconsultingllc@gmail.com

WESTSIDE SCHOOL HISTORIC REHABILITATION
330 W. WASHINGTON AVE.
LAS VEGAS, NEVADA 89106

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ELECTRICAL GEN. NOTES, SYMBOLS, ABBREV, DRAWING INDEX

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PROFESSIONAL ENGINEER - STATE OF NEVADA
JERRY A. CRIBBS
Exp. 12-31-14
ELECTRICAL
No. 15218
11-03-2014

CONSTRUCTION DOCUMENTS

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6535
FAX: (702) 382-3232
TDD: (702) 386-9108

DRAWN CVB
FILE 2012-007
DATE 08-11-2014
SCALE NTS
BID NO 12.43221-TF
CLV DWG NO 715-175-1
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REVISED 8/14/13

SHEET GENERAL NOTES

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6. EACH LIGHTING CIRCUIT REQUIRE A SEPARATE NEUTRAL.
7. VERIFY MOUNTING AND LOCATION OF ALL FIXTURES WITH ARCHITECT PRIOR TO INSTALLATION.
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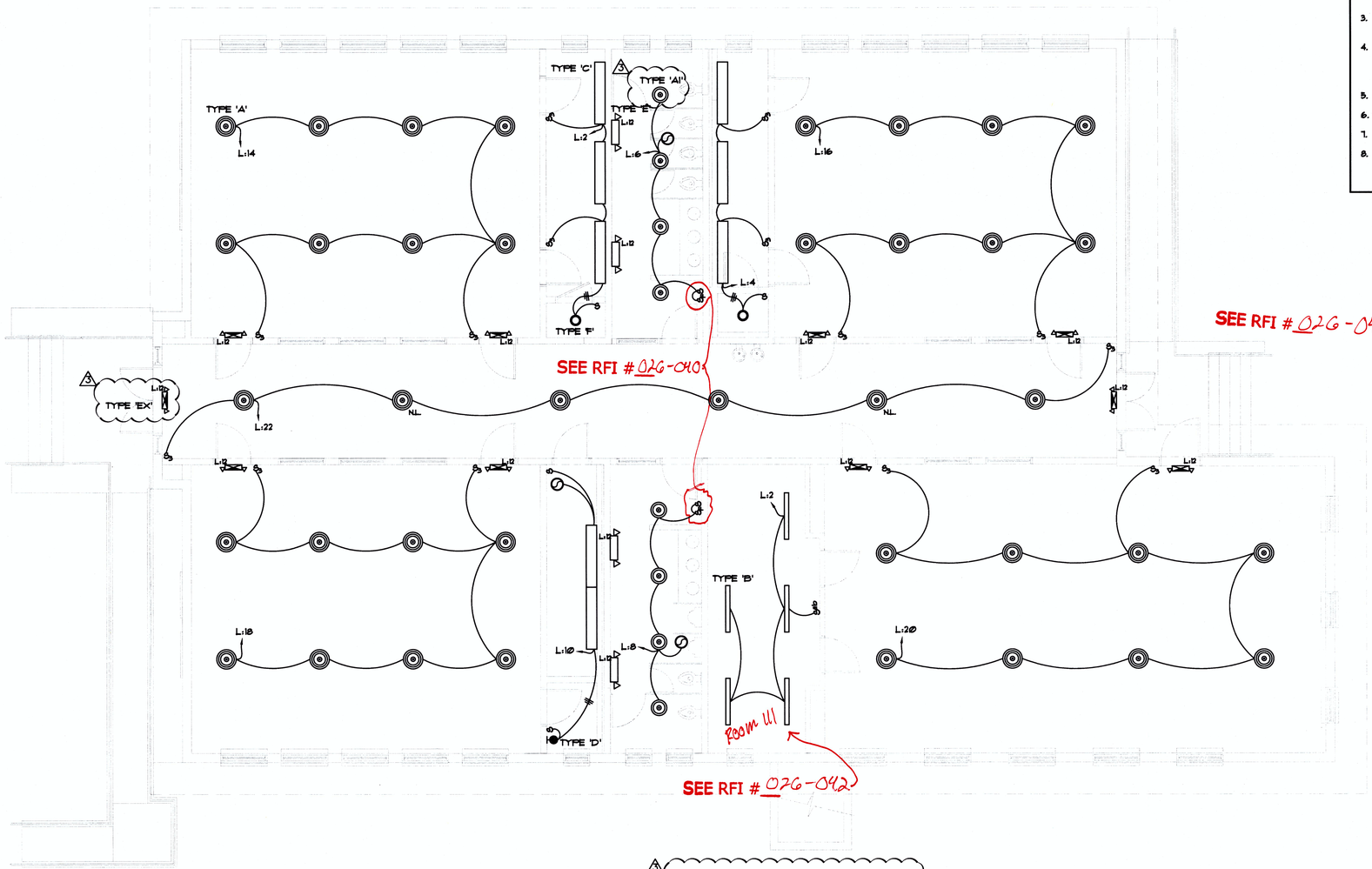

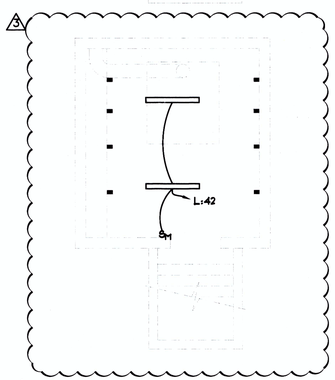

Location and Layout Dimensions for Lighting
SEE RFI # 026-005

LIGHTING PLAN - 1923 BUILDING

SCALE: 3/16" = 1'-0"

1

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6765 WEST RUSSELL ROAD, SUITE 200
LAS VEGAS, NEVADA 89118
P: 702-688-2088 / F: 702-688-2089
WEB: www.kmearchitects.com

CONSULTANT
pid consulting engineers/designers
pidconsultingllc@gmail.com
Arizona
California
Idaho
Montana
Nevada
Utah
Wyoming
15611 W Gross Avenue
Goodyear, AZ 85338
P: (702)366-0634
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WESTSIDE SCHOOL HISTORIC REHABILITATION
330 W. WASHINGTON AVE.
LAS VEGAS, NEVADA 89106
CLV PLANS LIBRARY NUMBER: 715-175-1
BID NUMBER: 12.43221-TF
LIGHTING PLAN - 1923 BUILDING

STAMP
PROFESSIONAL ENGINEER · STATE OF NEVADA
JERRY A. CRIBBS
Exp. 12-31-14
ELECTRICAL
No. 15218
11-03-2014

CONSTRUCTION DOCUMENTS

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6535
FAX: (702) 382-3232
TDD: (702) 386-9108

DRAWN	CVB
FILE	2012-007
DATE	08-11-2014
SCALE	NTS
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CLV DWG NO	715-175-1
SHT NO	E3.00

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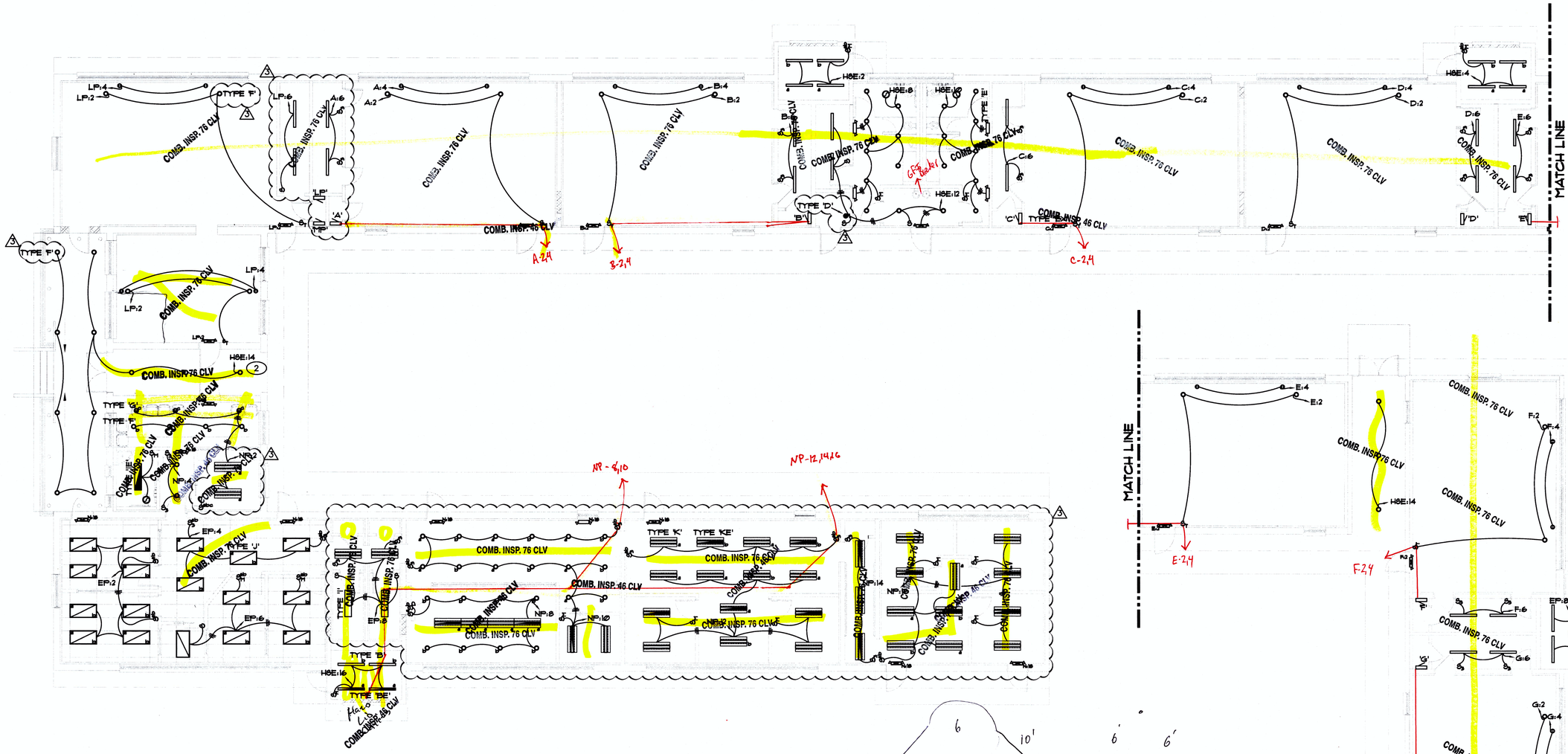
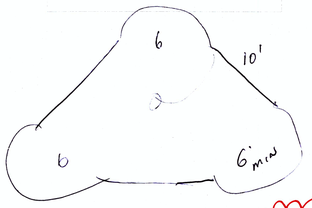
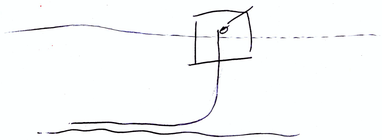




Location and Layout Dimensions for Lighting

SEE RFI #026-005



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SHEET NOTES

1. PROVIDE TIMER SWITCH, HONEYWELL RPLS740B, 7 DAY SOLAR TIME TABLE PROGRAMMABLE SWITCH
2. ENERGY MANAGEMENT PANEL. SEE WIRING DIARGRAM.

LIGHTING PLAN - 1948 ANNEX BUILDING (WITH T.I. FOR KCEP STATION) 1

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

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kme ARCHITECTS
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6765 WEST RUSSELL ROAD, SUITE 200
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P: 702-888-2088 / F: 702-888-2089
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CONSULTANT
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LIGHTING PLAN - 1948 ANNEX BUILDING (WITH T.I. FOR KCEP STATION)

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JERRY A. CRIBBS
Exp. 12-31-14
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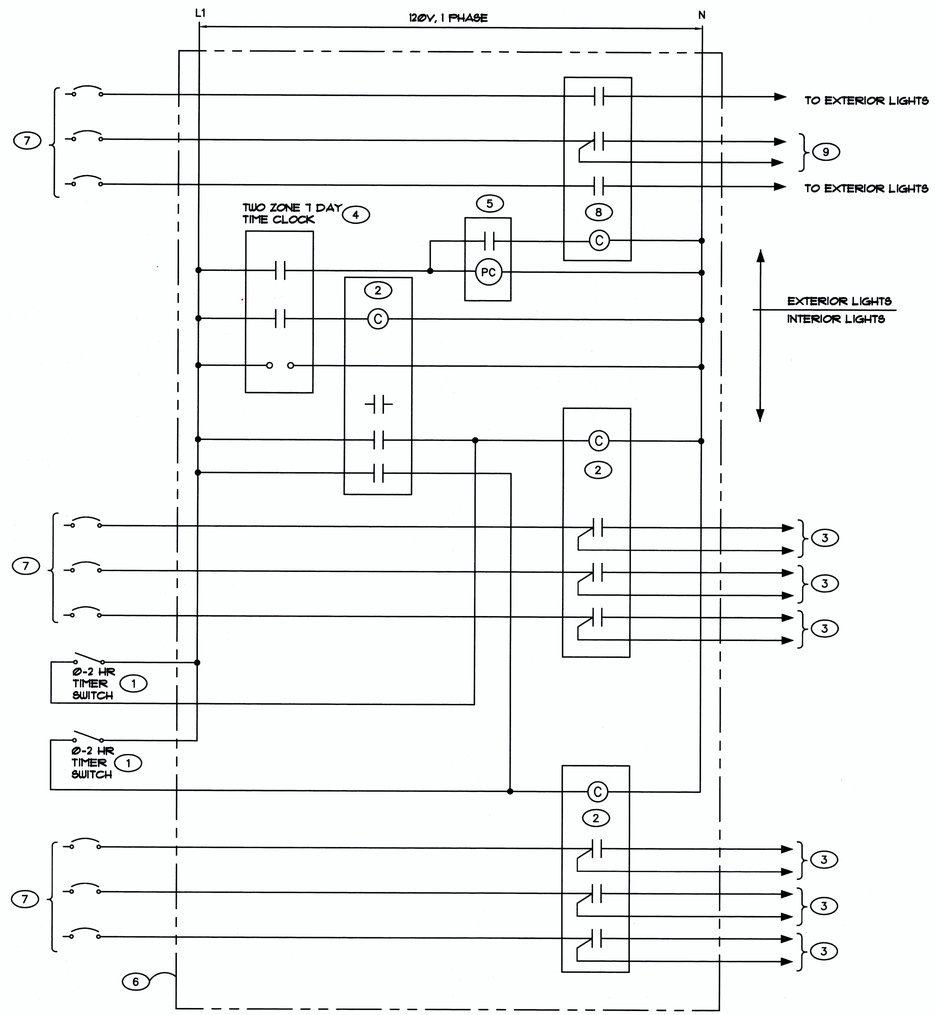
LIGHTING FIXTURE SCHEDULE

FIXTURE CALLOUT	FIXTURE DESCRIPTION	MANUFACTURER CATALOG NUMBER	FIXTURE VOLTAGE	LAMP DESCRIPTION AND QUANTITY	MOUNTING	ADDITIONAL COMMENTS
1923 BUILDING						
'A' 'A1'	PENDANT LIGHT (SIMILAR TO ORIGINAL HISTORIC LIGHT)	PREMIER LIGHTING DP-600CWP-3R20-60INC DP-600CWP-2R16-60INC	120V	(1) CFL OR LED LAMP EQUIV TO 60W INCAND	PENDANT	
'B'	LENSED LED STRIP	H.E. WILLIAMS TBL-4-LED*PH65/835-A12125-120	120V	(1) 77.2W LED	PENDANT	
'C'	WALL-MOUNTED FLUORESCENT FIXTURE	H.E. WILLIAMS CL-4-232-F-A12125-EM-EB2-120	120V	(2) 32W T8	WALL MOUNT	
'D'	WALL-MOUNTED UTILITY LIGHT	LITHONIA LIGHTING LIH 1259	120V	(1) 150W INC	WALL MOUNT	
'F'	6" APERTURE LED DOWNLIGHT	H.E. WILLIAMS LED6D-C820/840-MVT-EDD*08-120	120V	(1) 19W LED	RECESSED	
1948 BUILDING						
'B' 'BE'	LENSED LED STRIP	H.E. WILLIAMS TBL-4-LED*PH65/835-A12125-120 TBL-4-LED*PH65/835-A12125-EM/BBL310120	120V	(1) 77.2W LED	PENDANT	WITH EMERGENCY LED DRIVER, 1300 LUMENS, 90 MINS O.T.
'D'	WALL-MOUNTED UTILITY LIGHT	LITHONIA LIGHTING LIH 1259	120V	(1) 150W INC	WALL MOUNT	
'F'	6" APERTURE LED DOWNLIGHT	H.E. WILLIAMS LED6D-C820/840-MVT-EDD*08-120	120V	(1) 19W LED	RECESSED	
'G'	6" APERTURE LED WALLWASH	H.E. WILLIAMS LEDWW6D-C830/840-C8-EDD*08-120	120V	(1) 36.6W LED	RECESSED	
'H'	(NOT USED)					
'I' 'IE'	SURFACE MOUNT - WRAPAROUND LED	H.E. WILLIAMS WE8-14-LED*PH38/840-A-ED*PH-120 WE8-14-LED*PH38/840-A-EM/BBL310-ED*PH-120	120V	(1) 42.9W LED	SURFACE MOUNT	WITH EMERGENCY LED DRIVER, 1300 LUMENS, 90 MINS O.T.
'J'	RECESSED 2x4 DIRECT/INDIRECT LED	H.E. WILLIAMS DIG-624-LED*PH75/840-AD-ED*PH-120	120V	(1) 42.9W LED	SURFACE MOUNT	
'K' 'KE'	PENDANT DIRECT/INDIRECT FLUORESCENT	H.E. WILLIAMS ST-A14-P33-R2U-4-232-F-EB1 ST-A14-P33-R2U-4-232-F-EM-EB2	120V	(2) 32WT8FL	STEM PENDANT	WITH EMERGENCY BALLAST, 1400 LUMENS, 90 MINS O.T.
COMMON FIXTURES						
'E'	EMERGENCY LIGHT	H.E. WILLIAMS EMER/CP/ADJ/LED-WHT-PC3	120V	LED LAMP (INCL)	UNIVERSAL	
'EX'	EMERGENCY/EXIT COMBO	ULTRA BRIGHT COMBO-LP	120V	LED LAMP (INCL)	UNIVERSAL	
LANDSCAPE/PARKING LIGHTS						
L1	IN-GROUND WELL LIGHT (ON LANDSCAPE)	AFFORDABLE QUALITY LIGHTING PGAU999-20W-120V	120V	(1) 20W LED PAR38	IN-GROUND	WITH INJECTA-SEAL FOR WATER AND BUGS PROTECTION
L2	IN-GROUND TRI-DIRECTIONAL PATHWAY LIGHT (ON WALKWAYS)	AFFORDABLE QUALITY LIGHTING PGC3B-MH-6LED-12-BZ-UCS	12V	(1) 6W LED MR16 SPOT	IN-GROUND	WITH INJECTA-SEAL FOR WATER AND BUGS PROTECTION
L3	LINEAR IN-GROUND UPLIGHT (BLDG HIGHLIGHTS)	LUMUX LIGHTING LF600-1/LED/120-2T1/SILVER	120V	(1) 15W LED	IN-GROUND	
L4	UPLIGHT (ON TREES & PLANTERS)	LUMIERE LIGHTING 3000A-MH39T3-LED-MFL-120	120V	(1) 39W METAL HALIDE	IN-GROUND	
L5	(NOT USED)					
L6	UNDER WATER LIGHTS	LUMIERE LIGHTING 1407-10LED3021-12V-NBZ	12V	(1) 10W LED	UNDERWATER IN THE FOUNTAIN	
'B'	LENSED LED STRIP	H.E. WILLIAMS TBL-4-LED*PH65/835-A12125-120	120V	(1) 77.2W LED	PENDANT	
'P1'	POLE LIGHTING	H.E. WILLIAMS ARE-EDG-2M-DA-12-E-UL-40K-525-ML	120V	(2) 203.84W LED	POLE MOUNTED	PROVIDE BI-LEVEL LIGHTING CONTROL
'P2'	POLE LIGHTING	H.E. WILLIAMS ARE-EDG-2MP-DA-12-E-UL-40K-525-ML	120V	(1) 203.84W LED	POLE MOUNTED	PROVIDE BI-LEVEL LIGHTING CONTROL
'P3'	POLE LIGHTING	H.E. WILLIAMS ARE-EDG-4M-DA-12-E-120-40K-525-ML	120V	(2) 203.84W LED	POLE MOUNTED	PROVIDE BI-LEVEL LIGHTING CONTROL
'P4'	POLE LIGHTING	H.E. WILLIAMS ARE-EDG-4M-DA-12-E-120-525-40K-ML	120V	(2) 203.84W LED	POLE MOUNTED	2@180°, 2@90°, PROVIDE BI-LEVEL LIGHTING CONTROL
'P5'	POLE LIGHTING	H.E. WILLIAMS ARE-EDG-4MB-DA-12-E-UL-40K-525-ML	120V	(2) 203.84W LED	POLE MOUNTED	PROVIDE BI-LEVEL LIGHTING CONTROL

LIGHTING FIXTURE SCHEDULE NOTES:

1. CONTRACTOR TO PROVIDE ALL LAMPS, MOUNTING HARDWARE AND ACCESSORIES REQUIRED FOR A COMPLETE FIXTURE ASSEMBLY.
2. THE FIXTURE SCHEDULE INDICATES THE GENERAL DESCRIPTION OF THE LIGHTING FIXTURE AND MANUFACTURER CATALOG NUMBER.
3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE CORRECT CEILING TYPE AND PROVIDE ALL NECESSARY TRIM AND HARDWARE FOR PROPER MOUNTING OF FIXTURE.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EXACT LOCATION OF FIXTURE WITH THE ARCHITECTURAL REFLECTED CEILING PLAN PRIOR TO FIXTURE INSTALLATION.
5. PROVIDE A JUNCTION BOX WITH ALL EXIT LIGHTS CONNECTED TO MORE THAN ONE SET OF CONDUITS LANDING ON THE FIXTURE, UNLESS THE EXIT LIGHT IS PROVIDED WITH AN APPROVED OUTLET BOX FOR THROUGH WIRING.
6. PRVIDE AN ELECTRONIC BALLAST ONLY FOR ALL PL LAMPS.
7. ALL OUTDOOR FIXTURES SHALL BE U.L. LISTED FOR DAMP LOCATION.
8. PROVIDE BOX FOR RECESS FIXTURE IF FIXTURE IS NOT IR RATED AND IS REQUIRED BY AUTHOURITY HAVING JURISDICTION REQUIRES IT TO BE IR RATED.



ENERGY MANAGEMENT TYPICAL WIRING DIAGRAM

THIS WIRING DIAGRAM REPRESENT A TYPICAL INSTALLATION TO MEET THE IECC REQUIREMENTS. IT DOES NOT REPRESENT THE ACTUAL REQUIREMENTS OF THE PROJECT. SEE PLAN FOR ACTUAL NUMBER OF LIGHTING CIRCUITS AND TIMER SWITCH. CONTRACTOR MAY SUBSTITUTE EQUAL PREMANUFACTURED PRODUCT (ie WATCH KEEPER, ZMAX, ETC)

SEE RFI #026-002
026-002 Rod Rod

1. Ø-2 HRS TIME SWITCH TO CONTROL AN AREA OF NOT MORE THAN 5,000 SQFT OF AREA.
2. 20A, 3P NORMALLY OPEN CONTACTOR WITH 120V COIL. EACH SET OF CONTACTORS SHALL CONTROL NO MORE THAN 5,000 SQ. FT. OF LIGHTING SPACE PER FLOOR.
3. TO INTERIOR LIGHT FIXTURES. PROVIDE UNSWITCHED LEG ONLY IF CIRCUIT IS CONNECTED TO EMERGENCY BATTERY FIXTURE.
4. TIME CLOCK PER IECC REQUIREMENTS (ie: 7 DAY, ADT. BATTERY BACK UP, etc)
5. THREE WIRE PHOTOCELL. NOT REQUIRED IF WE USING ASTRONOMICAL FEATURE IS BUILT IN TIME CLOCK
6. NEMA 1 BOX. SIZE AS REQUIRED. ASSEMBLY TO HAVE UL LISTING.
7. FROM LIGHTING PANEL. SEE PANEL SCHEDULE
8. 20A, XP NORMALLY OPEN ELECTRICALLY HELD CONTACTOR WITH 120V COIL. NUMBER OF POLES AS SHOWN ON PANEL SCHEDULE(S)
9. TO EXTERIOR LIGHT FIXTURES. PROVIDE UNSWITCHED LEG ONLY IF CIRCUIT IS CONNECTED TO EXTERIOR EMERGENCY BATTERY FIXTURE.

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LAS VEGAS, NEVADA 89118
P: 702-896-2066 / F: 702-896-2069
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CONSULTANT
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LIGHTING FIXTURE SCHEDULE, ENERGY MANAGEMENT SYSTEM

STAMP
PROFESSIONAL ENGINEER - STATE OF NEVADA
JERRY A. CRIBBS
Exp. 12-31-16
ELECTRICAL
No. 15218
11-03-2014

CONSTRUCTION DOCUMENTS

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

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LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6535
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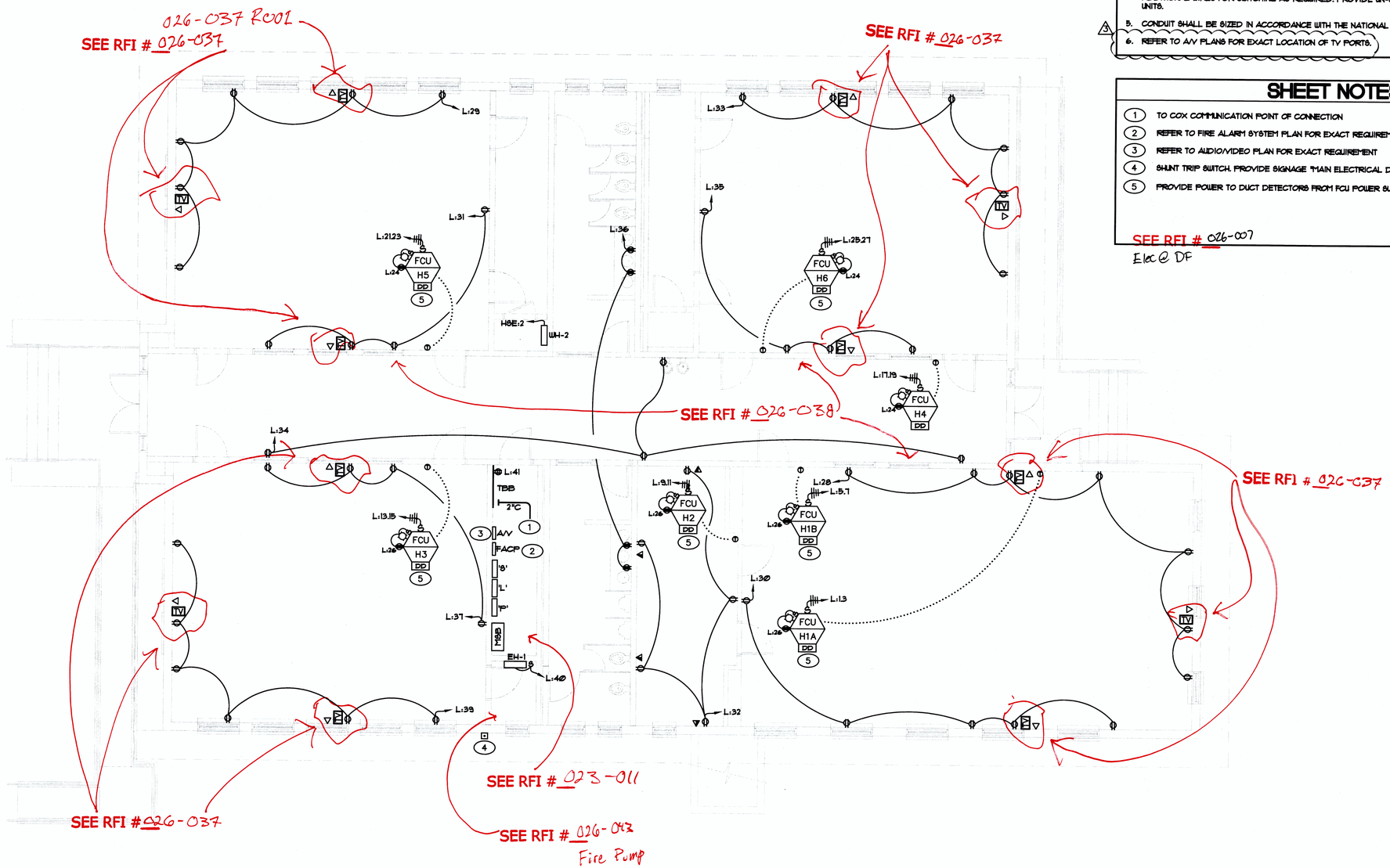

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5. CONDUIT SHALL BE SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
6. REFER TO A/V PLANS FOR EXACT LOCATION OF TV PORTS.

SHEET NOTES

1. TO COX COMMUNICATION POINT OF CONNECTION
2. REFER TO FIRE ALARM SYSTEM PLAN FOR EXACT REQUIREMENT
3. REFER TO AUDIO/VIDEO PLAN FOR EXACT REQUIREMENT
4. SHUNT TRIP SWITCH. PROVIDE SIGNAGE "MAIN ELECTRICAL DISCONNECT"
5. PROVIDE POWER TO DUCT DETECTORS FROM FCU POWER SUPPLY

SEE RFI # 026-007
Elec @ DF

POWER & AUXILIARY PLAN - 1923 BUILDING
SCALE: 3/16" = 1'-0"

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kme ARCHITECTS
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CONSULTANT
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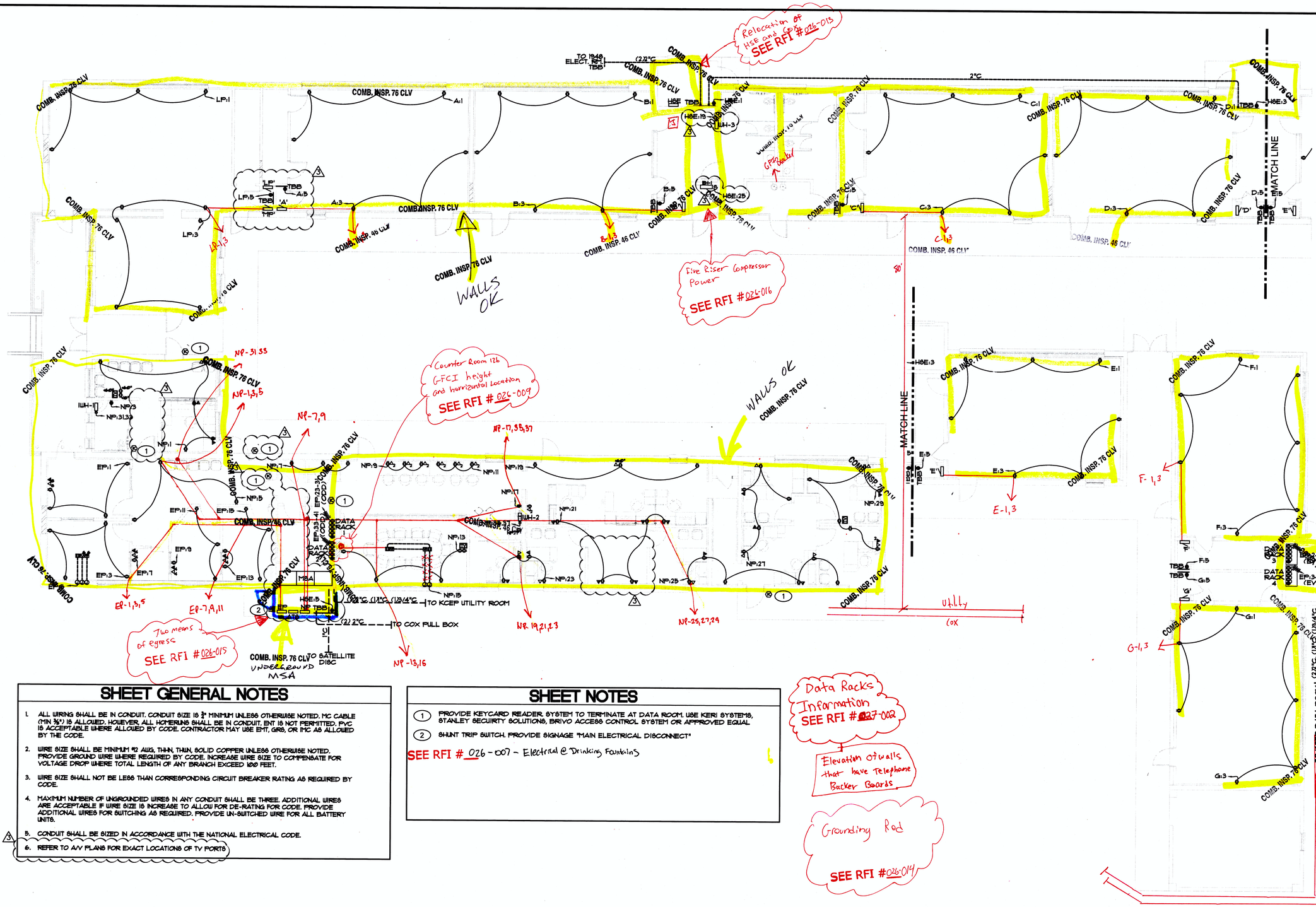

SHEET GENERAL NOTES

1. ALL WIRING SHALL BE IN CONDUIT. CONDUIT SIZE IS ¾" MINIMUM UNLESS OTHERWISE NOTED. MC CABLE (MIN ¾") IS ALLOWED. HOWEVER, ALL HOMERUNS SHALL BE IN CONDUIT. ENT IS NOT PERMITTED. PVC IS ACCEPTABLE WHERE ALLOWED BY CODE. CONTRACTOR MAY USE EMT, GRS, OR IMC AS ALLOWED BY THE CODE.
2. WIRE SIZE SHALL BE MINIMUM #12 AWG, THHN, THWN, SOLID COPPER UNLESS OTHERWISE NOTED. PROVIDE GROUND WIRE WHERE REQUIRED BY CODE. INCREASE WIRE SIZE TO COMPENSATE FOR VOLTAGE DROP WHERE TOTAL LENGTH OF ANY BRANCH EXCEED 100 FEET.
3. WIRE SIZE SHALL NOT BE LESS THAN CORRESPONDING CIRCUIT BREAKER RATING AS REQUIRED BY CODE.
4. MAXIMUM NUMBER OF UNGROUNDED WIRES IN ANY CONDUIT SHALL BE THREE. ADDITIONAL WIRES ARE ACCEPTABLE IF WIRE SIZE IS INCREASE TO ALLOW FOR DE-RATING FOR CODE. PROVIDE ADDITIONAL WIRES FOR SWITCHING AS REQUIRED. PROVIDE UN-SWITCHED WIRE FOR ALL BATTERY UNITS.
5. CONDUIT SHALL BE SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
6. REFER TO A/V PLANS FOR EXACT LOCATIONS OF TV PORTS

SHEET NOTES

1. PROVIDE KEYCARD READER SYSTEM TO TERMINATE AT DATA ROOM. USE KERI SYSTEMS, STANLEY SECURITY SOLUTIONS, BRIVO ACCESS CONTROL SYSTEM OR APPROVED EQUAL
2. SHUNT TRIP SWITCH. PROVIDE SIGNAGE "MAIN ELECTRICAL DISCONNECT"

SEE RFI # 026-007 - Electrical @ Drinking Fountains

POWER & AUXILIARY DATA - 1948 ANNEX (WITH T.I. FOR KCEP STATION) 1

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

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ARCHITECT
kme ARCHITECTS
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8765 WEST RUSSELL ROAD, SUITE 200
LAS VEGAS, NEVADA 89113
P: 702-888-2088 / F: 702-888-2089
WEB: www.kmearchitects.com

CONSULTANT
pid consulting engineers/designers
pidconsultingllc@gmail.com
Arizona California Idaho Montana Nevada Utah Wyoming
15611 W Gross Avenue
Goodyear, AZ 85338
P: (702)366-0634
pidconsultingllc@gmail.com

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WESTSIDE SCHOOL HISTORIC REHABILITATION
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POWER & AUXILIARY PLAN - 1948 ANNEX (WITH T.I. FOR COFFEE SHOP AND KCEP STATION)

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JERRY A. CRIBBS
Exp. 12-31-14
ELECTRICAL
No. 15218
11-03-2014

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OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6535
FAX: (702) 382-3232
TDD: (702) 386-9108

DRAWN	CVB
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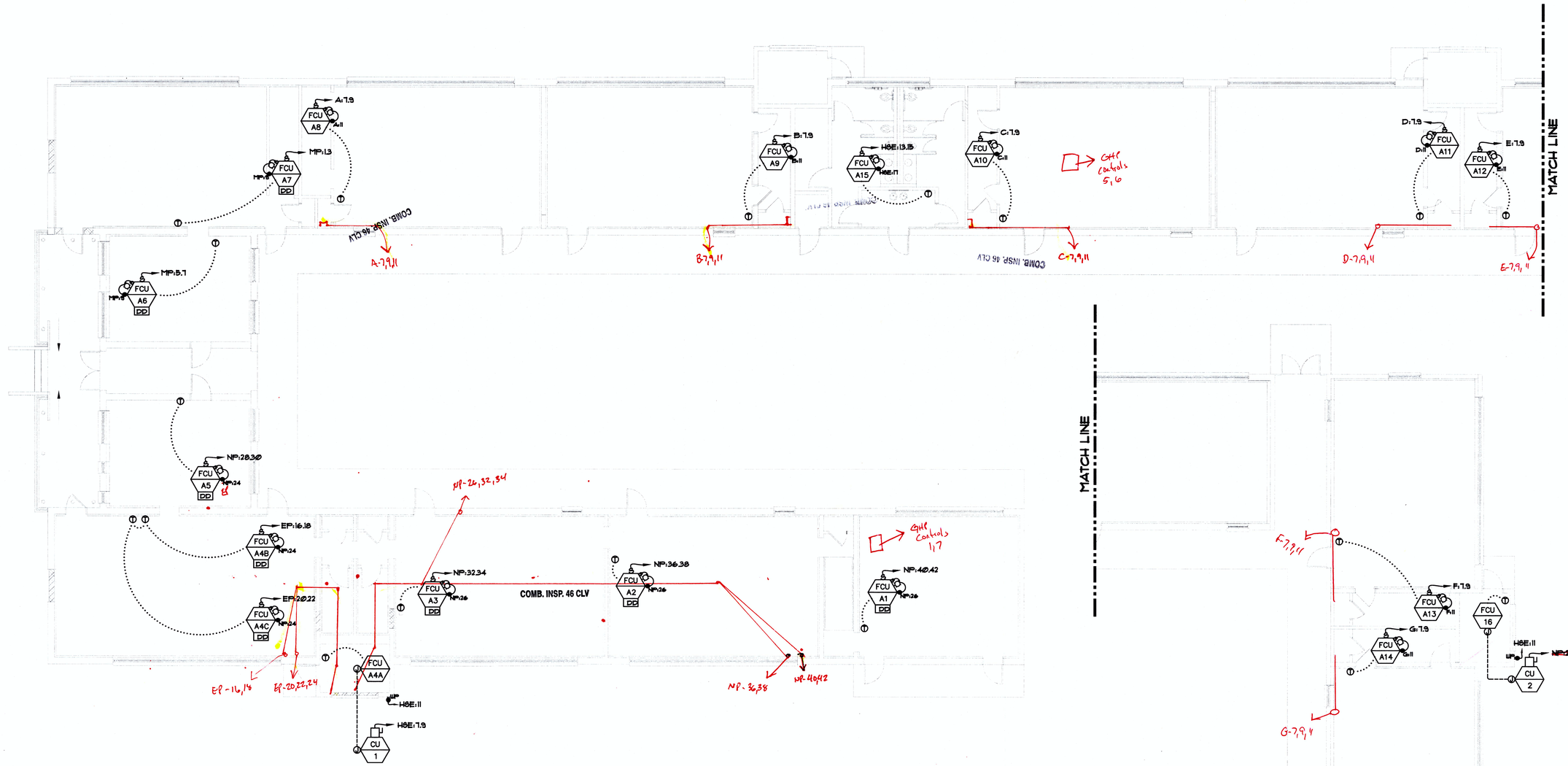

SHEET GENERAL NOTES

1. PROVIDE CONTROL WIRING AND CONDUIT FOR HVAC AS REQUIRED BY THE MECHANICAL DRAWINGS, INCLUDING BUT NOT LIMITED TO, TSTAT, DUCT DETECTOR, HORN STROBE, ETC. PROVIDE HORN STROBE FOR DUCT DETECTOR SMOKE DETECTION IF REQUIRED BY AUTHORITY HAVING JURISDICTION. DETECTION OF SMOKE TO SHUT THE HVAC UNIT.

HVAC POWER PLAN - 1948 ANNEX BUILDING

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

1

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6765 WEST RUSSELL ROAD, SUITE 200
LAS VEGAS, NEVADA 89118
P: 702-888-2069 / F: 702-888-2069
WEB: www.kmearchitects.com

CONSULTANT

pid consulting engineers/designers

pidconsultinglic@gmail.com
Arizona
California
Idaho
Montana
Nevada
Utah
Wyoming
15611 W Gross Avenue
Goodyear, AZ 85338
P: (702)366-0634
pidconsultinglic@gmail.com

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HVAC POWER PLAN - 1948 ANNEX BUILDING

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ELECTRICAL
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DEPARTMENT OF PUBLIC WORKS

400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6535
FAX: (702) 382-3232
TDD: (702) 386-9108

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SEE RFI #026-034

SEE RFI #026-035

COMB. INSP. 46 CLV

COMB. INSP. 76 CLV

TYPE 'F2'

TYPE 'F3'

TYPE 'F4'

TYPE 'F5'

TYPE 'F1'

TYPE 'B'

TYPE 'L1'

TYPE 'L2'

TYPE 'L3'

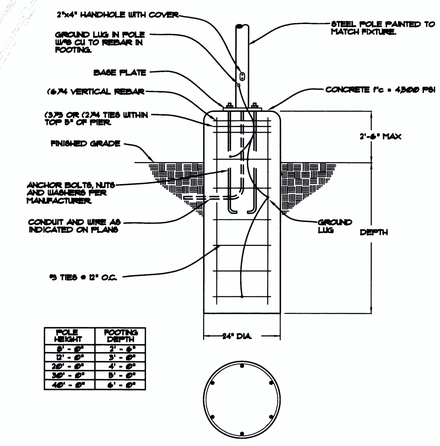
TYPE 'L4'

TYPE 'L6'

SHEET KEYNOTES

1. CONTROLLED BY ENERGY MANAGEMENT SYSTEM. SEE WIRING DIAGRAM
2. PROVIDE BI-LEVEL LIGHTING CONTROLLER FOR EACH POLE LIGHT TO CONTROL ILLUMINATION
3. ELECTRIC CAR CHARGING STATION: FEP STATIONS FS2000

GEN. NOTE: ALL WIRING FOR SITE LIGHTING SHALL BE #10 THWN



POLE HEIGHT	FOOTING DEPTH
8' - 0"	2' - 6"
12' - 0"	3' - 0"
20' - 0"	4' - 0"
30' - 0"	5' - 0"
40' - 0"	6' - 0"

PER SOUTHERN NEVADA BUILDING OFFICIALS REGIONAL STANDARDS

TYPICAL POLE BASE DETAILS

NOT TO SCALE

SITE LIGHTING PLAN 1

SCALE: 1/16" = 1'-0"

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9765 WEST RUSSELL ROAD, SUITE 200
LAS VEGAS, NEVADA 89148
P: 702-896-2096 / F: 702-896-2069
WEB: www.kmearchitects.com

CONSULTANT
pid consulting engineers/designers pidconsultingllc@gmail.com
Arizona
California
Idaho
Montana
Nevada
Utah
Wyoming
15611 W Gross Avenue
Goodyear, AZ 85338
P: (702)366-0634
pidconsultingllc@gmail.com

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SITE LIGHTING PLAN

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ELECTRICAL
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DEPARTMENT OF PUBLIC WORKS

400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6535
FAX: (702) 382-3232
TDD: (702) 386-9108

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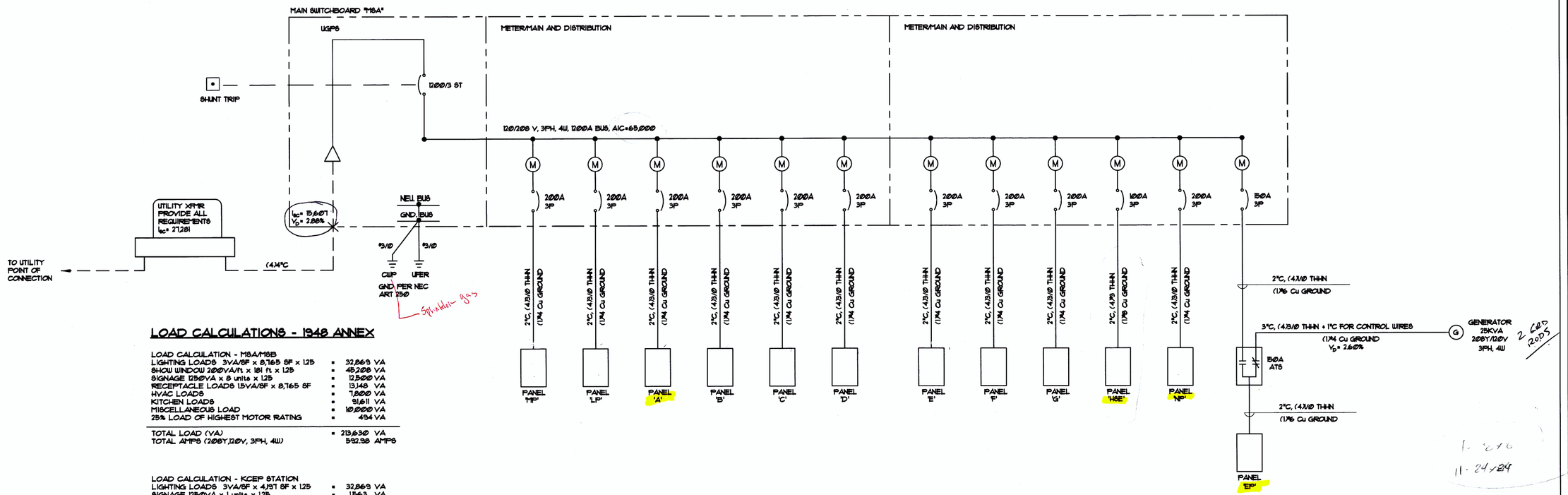


LOAD CALCULATIONS - 1948 ANNEX

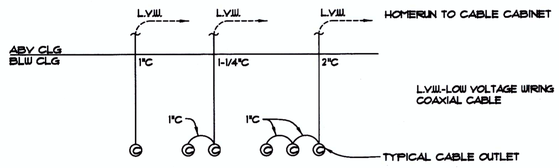
LOAD CALCULATION - MSA/MSB		
LIGHTING LOADS 3VA/SF x 8,765 SF x 125	=	32,869 VA
SHOW WINDOW 200VA/ft x 181 ft x 125	=	45,208 VA
SIGNAGE 1250VA x 8 units x 125	=	12,500 VA
RECEPTACLE LOADS 1.5VA/SF x 8,765 SF	=	13,148 VA
HVAC LOADS	=	7,800 VA
KITCHEN LOADS	=	91,611 VA
MISCELLANEOUS LOAD	=	10,000 VA
25% LOAD OF HIGHEST MOTOR RATING	=	494 VA
TOTAL LOAD (VA)	=	213,630 VA
TOTAL AMPS (208Y/120V, 3PH, 4W)		592.98 AMPS

LOAD CALCULATION - KCEP STATION		
LIGHTING LOADS 3VA/SF x 4,197 SF x 1.25	=	32,869 VA
SIGNAGE 1250VA x 1 units x 1.25	=	1563 VA
RECEPTACLE LOADS 180VA/REC x 90 RECS	=	16,200 VA
HVAC LOADS	=	4,638 VA
MISCELLANEOUS LOAD	=	10,000 VA
25% LOAD OF HIGHEST MOTOR RATING	=	177 VA
TOTAL LOAD (VA)	=	65,447 VA
TOTAL AMPS (208Y/120V, 3PH, 4W)	=	181.66 AMPS

SINGLE LINE DIAGRAM

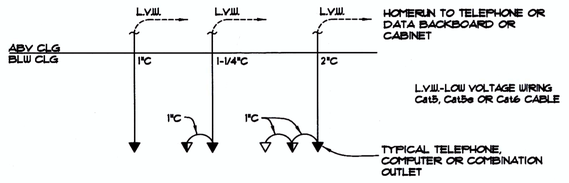
NOT TO SCALE

Exposed Plenum rated Cable
Conduit sizes
SEE RFI #027-001



TYPICAL CABLE CONDUIT DIAGRAM

NOT TO SCALE



TYPICAL TELE/DATA CONDUIT DIAGRAM

NOT TO SCALE

	THE ENGINEER OF RECORD HAS PERFORMED ALL REQUIRED SHORT CIRCUIT CALCULATIONS AND THE A.I.C. RATINGS INDICATED FOR EACH DEVICE IS ADEQUATE TO PROTECT THE EQUIPMENT AND THE ELECTRICAL SYSTEM. THE ENGINEER OF RECORD HAS PERFORMED ALL REQUIRED VOLTAGE DROP CALCULATIONS AND ALL BRANCH CIRCUITS AND FEEDERS COMPLY WITH NEC 210-19(A) FPN NO. 4.

SINGLE LINE DIAGRAMS - 1948 ANNEX BUILDING 1

SCALE: NTS

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6766 WEST RUSSELL ROAD, SUITE 200
LAS VEGAS, NEVADA 89118
P: 702-888-3088 / F: 702-888-3089
WEB: www.kmearchitects.com

CONSULTANT
pid consulting engineers/designers
pidconsultingllc@gmail.com
Arizona
California
Idaho
Montana
Nevada
Utah
Wyoming
15611 W Gross Avenue
Goodyear, AZ 85338
P: (702)366-0634
pidconsultingllc@gmail.com

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LAS VEGAS, NEVADA 89106

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SINGLE LINE DIAGRAMS - 1948 ANNEX BUILDING

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DEPARTMENT OF PUBLIC WORKS

400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6535
FAX: (702) 382-3232
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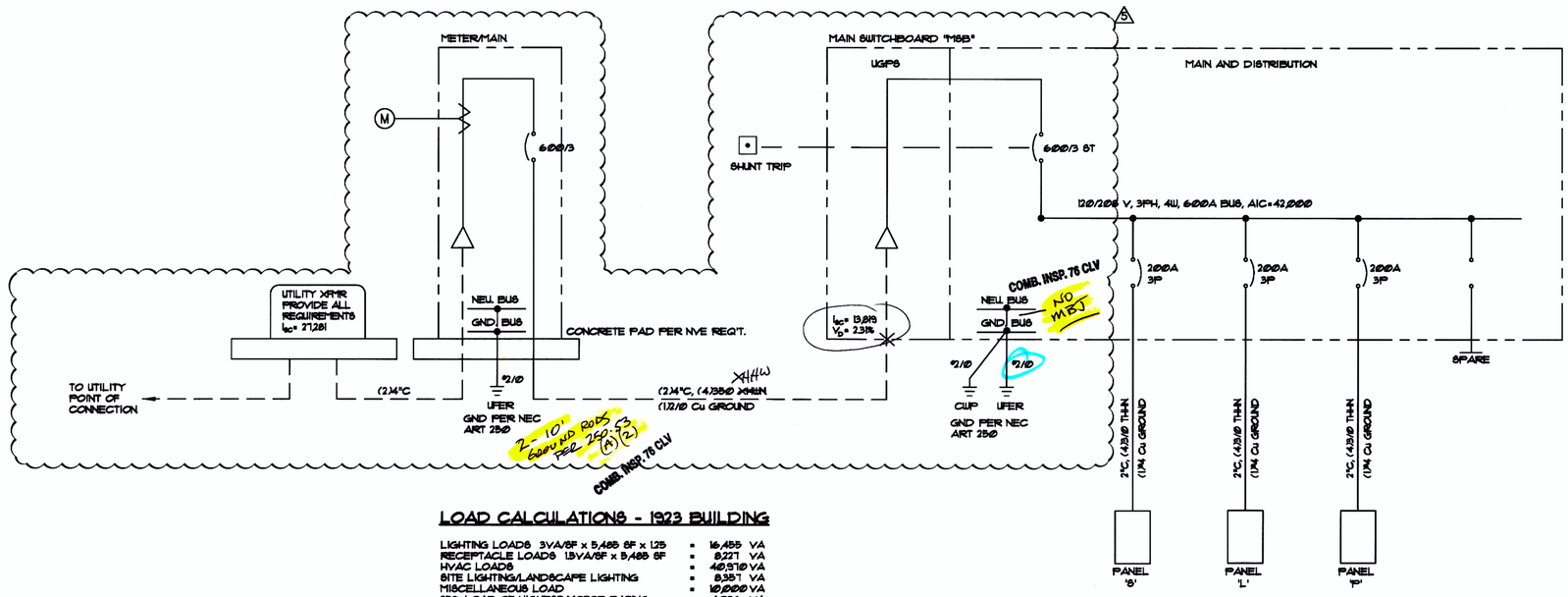


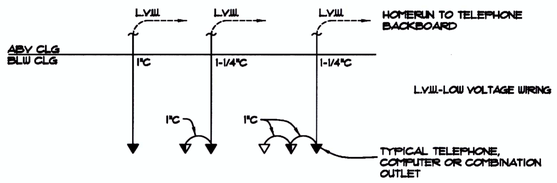
LOAD CALCULATIONS - 1923 BUILDING

LIGHTING LOADS 3VA/SF x 5,485 SF x 125	=	16,455 VA
RECEPTACLE LOADS 1.5VA/SF x 5,485 SF	=	8,227 VA
HVAC LOADS	=	40,510 VA
SITE LIGHTING/LANDSCAPE LIGHTING	=	8,351 VA
MISCELLANEOUS LOAD	=	10,000 VA
25% LOAD OF HIGHEST MOTOR RATING	=	1,036 VA
TOTAL LOAD (VA)	=	85,648 VA
TOTAL AMPS (208Y,120V, 3PH, 4W)		236.026 AMPS

AVAILABLE FAULT CURRENT
13,819 AMPS
CALCULATED ON
8-11-14

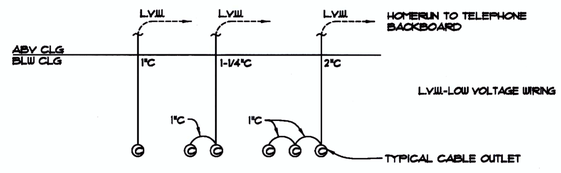
SINGLE LINE DIAGRAM

NOT TO SCALE



TYPICAL TELE/DATA CONDUIT DIAGRAM

NOT TO SCALE



TYPICAL CABLE CONDUIT DIAGRAM

NOT TO SCALE

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SINGLE LINE DIAGRAM - 1923 BUILDING 1

SCALE: NTS

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ARCHITECT
kme ARCHITECTS
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6795 WEST RUSSELL ROAD, SUITE 200
LAS VEGAS, NEVADA 89118
P: 702-896-2066 / F: 702-896-2069
WEB: www.kmearchitects.com

CONSULTANT
pid consulting engineers/designers
Arizona
California
Idaho
Montana
Nevada
Utah
Wyoming
15611 W Gross Avenue
Goodyear, AZ 85338
P: (702)366-0634
pidconsultinglic@gmail.com

BID NUMBER: 12.43221-TF

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SINGLE LINE DIAGRAM - 1923 BUILDING

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DEPARTMENT OF PUBLIC WORKS

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LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6535
FAX: (702) 382-3232
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1948 ANNEX BUILDING

SWGR MSA

VOLTAGE 208Y/120V — PHASE 3 — WIRE 4 — BUS AMPS 1200
MAIN AMPS 1200 — KAIC RATING 65
LOCATION ELECTRICAL ROOM — MOUNTING FLOOR MOUNTED

SECTION 1	A	B	C	BRKR AMP	P	CKT NO.	BUS CONN.	CKT NO.	BRKR AMP	P	A	B	C	SECTION 2
PANEL 'MP'	565			200	3	1		7	150	3	1135			PANEL 'E'
		865										1160		
			260										640	
PANEL 'LP'	820			200	3	2		8	150	3	1135			PANEL 'F'
		1800										1160		
			360										640	
PANEL 'A'	1135			150	3	3		9	150	3	1135			PANEL 'G'
		1160										1160		
			640										640	
PANEL 'B'	1135			150	3	4		10	100	3	2829			PANEL 'HSE'
		1160										2930		
			640										1458	
PANEL 'C'	1135			150	3	5		11	200	3	12764			PANEL 'NP' (KCEP)
		1160										6807		
			640										8065	
PANEL 'D'	1135			150	3	6		12	150	3	12225			PANEL 'EP' (KCEP)
		1160										12415		
			640										15340	
TOTALS	5925	7305	3180								31223	25632	26783	

VOLT AMPS:
BUS A 37148 DEMAND FACTOR 1 X LCL VA = 0 X 1.25 = 0
BUS B 32937 DEMAND FACTOR 1 X NON LCL VA = 100048
BUS C 29963 TOTAL VA = 100048
TOTAL 100048 3 PHASE VOLTAGE = 208
3 PHASE AMPS = 278.03

PANEL MP

VOLTAGE 208Y/120V — PHASE 3 — WIRE 4 — BUS AMPS 225
MAIN AMPS M.L.O. — KAIC RATING 22
LOCATION SEE PLANS — MOUNTING SURFACE

DESCRIPTION	A	B	C	BRKR AMP	P	CKT NO.	BUS CONN.	CKT NO.	BRKR AMP	P	A	B	C	DESCRIPTION
FCU - A7	305			20	2	1		2	20	1				SPARE
		305				3		4	20	1				SPARE
FCU - A6			260	20	2	5		6	20	1				SPARE
	260					7		8						SPACE
MAINT LGT/RECEPT		560		20	1	9		10						SPACE
SPACE						11		12						SPACE
SPACE						13		14						SPACE
SPACE						15		16						SPACE
SPACE						17		18						SPACE
SPACE						19		20						SPACE
SPACE						21		22						SPACE
SPACE						23		24						SPACE
SPACE						25		26						SPACE
SPACE						27		28						SPACE
SPACE						29		30						SPACE
SPACE						31		32						SPACE
SPACE						33		34						SPACE
SPACE						35		36						SPACE
SPACE						37		38						SPACE
SPACE						39		40						SPACE
SPACE						41		42						SPACE
TOTALS	565	865	260								0	0	0	

VOLT AMPS:
BUS A 565 DEMAND FACTOR 1 X LCL VA = 0 X 1.25 = 0
BUS B 865 DEMAND FACTOR 1 X NON LCL VA = 1690
BUS C 260 TOTAL VA = 1690
TOTAL 1690 3 PHASE VOLTAGE = 208
3 PHASE AMPS = 4.70

PANEL LP

VOLTAGE 208Y/120V — PHASE 3 — WIRE 4 — BUS AMPS 225
MAIN AMPS M.L.O. — KAIC RATING 22
LOCATION SEE PLAN — MOUNTING SURFACE

DESCRIPTION	A	B	C	BRKR AMP	P	CKT NO.	BUS CONN.	CKT NO.	BRKR AMP	P	A	B	C	DESCRIPTION
RECEPTS	720			20	1	1		2	20	1	100			LGTS - SECU/EMERG/EXT
RECEPTS		1080		20	1	3		4	20	1		720		WINDOWS RECEPT
TBB RECEPTS			360	20	1	5		6	20	1			150	LGTS - STORAGE
SPACE						7		8	20	1				SPARE
SPACE						9		10	20	1				SPARE
SPACE						11		12						SPACE
SPACE						13		14						SPACE
SPACE						15		16						SPACE
SPACE						17		18						SPACE
SPACE						19		20						SPACE
SPACE						21		22						SPACE
SPACE						23		24						SPACE
SPACE						25		26						SPACE
SPACE						27		28						SPACE
SPACE						29		30						SPACE
SPACE						31		32						SPACE
SPACE						33		34						SPACE
SPACE						35		36						SPACE
SPACE						37		38						SPACE
SPACE						39		40						SPACE
SPACE						41		42						SPACE
TOTALS	720	1080	360								100	720	150	

VOLT AMPS:
BUS A 820 DEMAND FACTOR 1 X LCL VA = 0 X 1.25 = 0
BUS B 1800 DEMAND FACTOR 1 X NON LCL VA = 3130
BUS C 510 TOTAL VA = 3130
TOTAL 3130 3 PHASE VOLTAGE = 208
3 PHASE AMPS = 8.70

PANEL A - G (TYPICAL)

VOLTAGE 208Y/120V — PHASE 3 — WIRE 4 — BUS AMPS 225
MAIN AMPS M.L.O. — KAIC RATING 22
LOCATION CLOSET — MOUNTING SURFACE

DESCRIPTION	A	B	C	BRKR AMP	P	CKT NO.	BUS CONN.	CKT NO.	BRKR AMP	P	A	B	C	DESCRIPTION
RECEPTS	720			20	1	1		2	20	1	155			LGTS - SECU/EMERG/EXT
RECEPTS		540		20	1	3		4	20	1		360		WINDOW RECEPT
TBB RECEPTS			360	20	1	5		6	20	1			150	LGTS - STORAGE
FCU	260			20	2	7		8						SPACE
//////		260				9		10						SPACE
MAINT LGT/RECEPT			280	20	1	11		12						SPACE
SPACE						13		14						SPACE
SPACE						15		16						SPACE
SPACE						17		18						SPACE
SPACE						19		20						SPACE
SPACE						21		22						SPACE
SPACE						23		24						SPACE
SPACE						25		26						SPACE
SPACE						27		28						SPACE
SPACE						29		30						SPACE
SPACE						31		32						SPACE
SPACE						33		34						SPACE
SPACE						35		36						SPACE
SPACE						37		38						SPACE
SPACE						39		40						SPACE
SPACE						41		42						SPACE
TOTALS	960	800	640								155	360	150	

VOLT AMPS:
BUS A 1135 DEMAND FACTOR 1 X LCL VA = 515 X 1.25 = 644
BUS B 1160 DEMAND FACTOR 1 X NON LCL VA = 2570
BUS C 790 TOTAL VA = 3214
TOTAL 3085 3 PHASE VOLTAGE = 208
3 PHASE AMPS = 8.93

PANEL HSE

VOLTAGE 208Y/120V — PHASE 3 — WIRE 4 — BUS AMPS 100
MAIN AMPS M.L.O. — KAIC RATING 22
LOCATION UTILITY ROOM #1 — MOUNTING SURFACE

DESCRIPTION	A	B	C	BRKR AMP	P	CKT NO.	BUS CONN.	CKT NO.	BRKR AMP	P	A	B	C	DESCRIPTION
TBB RECEPT - RM #116	360			20	1	1		2	20	1	175			LGTS - RM# 116
TBB RECEPT - RM #119		360		20	1	3		4	20	1		175		LGTS - RM #109
TBB RECEPT - RM #136			360	20	1	5		6	20	1			175	LGTS - RM #104
CU-1/FCU-A4A	1308			20	2	7		8	20	1	277			LGTS - MEN'S RESTRM
		1308				9		10	20	1		277		LGTS - WOMEN RESTRM
WP/GFI RECEPT			180	20	1	11		12	20	1			343	LGTS - RM 114/151/152
FCU - A15	200			15	2	13		14	20	1	266			~~LGTS - BREEZEWAYS~~ Bus Rm receptacles
		200				15		16	20	1		310		LGTS - RM #136
MAINT RECEPT			180	20	1	17		18	20	1			120	~~LGTS - PORCH~~ Spare
WH - 2	300			20	1	19		20	20	1				SPARE
WH - 3		300		20	1	21		22	20	1				SPARE
~~IRRIGATION~~			100	20	1	23		24	20	1				SPARE
EH - 1	504			20	1	25		26						SPACE
SPACE Don't Forget						27		28						SPACE
SPACE						29		30						SPACE
SPACE						31		32						SPACE
SPACE						33		34						SPACE
SPACE						35		36						SPACE
SPACE						37		38						SPACE
SPACE						39		40						SPACE
SPACE						41		42						SPACE
TOTALS	2672	2168	820								718	762	638	

VOLT AMPS:
BUS A 3390 DEMAND FACTOR 1 X LCL VA = 0 X 1.25 = 0
BUS B 2930 DEMAND FACTOR 1 X NON LCL VA = 7778
BUS C 1458 TOTAL VA = 7778
TOTAL 7778 3 PHASE VOLTAGE = 208
3 PHASE AMPS = 21.62

PANEL NP (NO T.I.)

VOLTAGE 208Y/120V — PHASE 3 — WIRE 4 — BUS AMPS 225
MAIN AMPS M.L.O. — KAIC RATING 22
LOCATION ELECT. CLOSET — MOUNTING SURFACE

DESCRIPTION	A	B	C	BRKR AMP	P	CKT NO.	BUS CONN.	CKT NO.	BRKR AMP	P	A	B	C	DESCRIPTION
RECEPTS	540			20	1	1		2	20	1	309			LGTS - SECURITY
RECEPTS		900		20	1	3		4	20	1		720		WINDOW RECEPT
RECEPTS			720	20	1	5		6	20	1			309	LGTS - SECURITY
RECEPTS	720			20	1	7		8	20	1	720			WINDOW RECEPT
RECEPTS		900		20	1	9		10	20	1		150		LGTS - SECURITY
SPARE				20	1	11		12	20	1			360	WINDOW RECEPT
SPARE				20	1	13		14	20	1	150			LGTS - ELECT CLOSET
SPARE				20	1	15		16	20	1		175		LGTS - EXIT/EMERG
SPARE				20	1	17		18	20	1				SPARE
SPARE				20	1	19		20	20	1				SPARE
SPARE				20	1	21		22	20	1				SPARE
SPARE				20	1	23		24	20	1				SPARE
SPARE				20	1	25		26	20	1				SPARE
SPARE				20	1	27		28	20	1				SPARE
SPARE				20	1	29		30	20	1				SPARE
SPARE				20	1	31		32	20	1				SPARE
SPARE				20	1	33		34	20	1				SPARE
SPARE				20	1	35		36	20	1				SPARE
SPARE				20	1	37		38	20	1				SPARE
SPARE				20	1	39		40	20	1				SPARE
SPARE				20	1	41		42	20	1				SPARE
TOTALS	1260	1800	720								1179	1045	669	

VOLT AMPS:
BUS A 2439 DEMAND FACTOR 1 X LCL VA = 0 X 1.25 = 0
BUS B 2845 DEMAND FACTOR 1 X NON LCL VA = 6673
BUS C 1389 TOTAL VA = 6673
TOTAL 6673 3 PHASE VOLTAGE = 208
3 PHASE AMPS = 18.54

PANEL NP (WITH T.I.)

VOLTAGE 208Y/120V — PHASE 3 — WIRE 4 — BUS AMPS 225
MAIN AMPS M.L.O. — KAIC RATING 22
LOCATION ELECT. CLOSET — MOUNTING SURFACE

DESCRIPTION	A	B	C	BRKR AMP	P	CKT NO.	BUS CONN.	CKT NO.	BRKR AMP	P	A	B	C	DESCRIPTION
RECEPTS - RECEPTION	1620			20	1	1		2	20	1	340			LGTS - RECEPT/WAITING
GFI RECEPTS - RESTRM		180		20	1	3		4	20	1		~~100~~		~~LGTS - HALLWAY/RESTRM~~
RECEPTS - WAITING			540	20	1	5		6	20	1				SPARE
RECEPTS - CLOSETS	540			20	1	7		8	20	1	314			~~LGTS - CONFERENCE~~
RECEPTS - COMPUTERS		540		20	1	9		10	20	1		257		LGTS - OPEN OFFICE
RECEPTS - COMPUTERS			540	20	1	11		12	20	1			515	LGTS - OPEN OFFICE
RECEPTS - CONFRENCE	900			20	1	13		14	20	1	150			LGTS - PASS THROUGH
FLR RECEPT - CONFER		360		20	1	15		16	20	1		450		LGTS - OFFICES
RECEPTS - BRKRM CNTR			360	20	1	17		18	20	1				~~SPARE~~ EMG lites
RECEPTS - OFFICE	540			20	1	19		20	20	1				~~SPARE~~
RECEPTS - CUBICLE		900		20	1	21		22	20	1				~~SPARE~~
RECEPTS - CUBICLE			720	20	1	23		24						SPACE
RECEPTS - CUBICLE	1080			20	1	25		26						~~SPACE~~ FCU 1,2,3
RECEPTS - OFFICES		900		20	1	27		28						~~SPACE~~ FCU A5
RECEPTS - OFFICES			1080	20	1	29		30						~~SPACE~~ FCU A5
IWH - 1	3120			30	2	31		32						~~SPACE~~ FCU A3
//////////		3120				33		34						~~SPACE~~ FCU A3
IWH - 2			4160	40	2	35		36						~~SPACE~~ FCU A2
//////////	4160					37		38						~~SPACE~~ FCU A2
SPACE						39		40						~~SPACE~~ FCU A1
SPACE						41		42						~~SPACE~~ FCU A1 (FCU A4A)
TOTALS	11960	6000	7400								804	807	515	

VOLT AMPS:
BUS A 12764 DEMAND FACTOR 1 X LCL VA = 2126 X 1.25 = 2658
BUS B 6807 DEMAND FACTOR 1 X NON LCL VA = 25360
BUS C 7915 TOTAL VA = 28018
TOTAL 27486 3 PHASE VOLTAGE = 208
3 PHASE AMPS = 77.86

PANEL EP

VOLTAGE 208Y/120V — PHASE 3 — WIRE 4 — BUS AMPS 100
MAIN AMPS M.L.O. — KAIC RATING 22
LOCATION ELECT. CLOSET — MOUNTING SURFACE

DESCRIPTION	A	B	C	BRKR AMP	P	CKT NO.	BUS CONN.	CKT NO.	BRKR AMP	P	A	B	C	DESCRIPTION
RECEPT - CONTROL	720			20	1	1		2	20	1	345			LGTS - CNTRL/TALK/NWS
RECEPT - TALK		720		20	1	3		4	20	1		175		LGTS - WAITING
FLR RECEPT - TALK			180	20	1	5		6	20	1			220	~~LGTS - PRODUCTION~~
RECEPT - NEWS	180			20	1	7		8	20	1	200			LGTS - ELECT/DATA RMS
RECEPTS - PRODUCTION		180		20	1	9		10	20	1				SPARE ATS Battery
RECEPTS - PRODUCTION			540	20	1	11		12	20	1				SPARE
RECEPTS - PRODUCTION	180			20	1	13		14						SPACE FCU-A4A 4,5
RECEPTS - PRODUCTION		540		20	1	15		16	20	2		1175		FCU A4B
~~SPACE~~ RM 129 Production						17		18					1175	FCU A4B
~~SPACE~~ GHP-4				20	2	19		20	20	2	1308			~~CU-3/FCU-16~~ FCU-A4C
~~SPACE~~ GHP-4				20	2	21		22				1308		FCU A4C
RECEPTS - DATA RACK 1			1800	20	1	23		~~24~~	~~20~~	~~1~~			~~1800~~	~~RECEPTS - DATA RACK 3~~
RECEPTS - DATA RACK 1	1800			20	1	25		26	20	1	1800			RECEPTS - DATA RACK 3
RECEPTS - DATA RACK 1		1800		20	1	27		28	20	1		1800		RECEPTS - DATA RACK 3
RECEPTS - DATA RACK 1			1800	20	1	29		30	20	1			1800	RECEPTS - DATA RACK 3
RECEPTS - DATA RACK 1	1800			20	1	31		32	20	1	1800			RECEPTS - DATA RACK 3
RECEPTS - DATA RACK 2		1800		20	1	33		34	20	1		1800		RECEPTS - DATA RACK 4
RECEPTS - DATA RACK 2			1800	20	1	35		36	20	1			1800	RECEPTS - DATA RACK 4
RECEPTS - DATA RACK 2	1800			20	1	37		38	20	1	1800			RECEPTS - DATA RACK 4
RECEPTS - DATA RACK 2		1800		20	1	39		40	20	1		1800		~~RECEPTS - DATA RACK 4~~ FCU16
RECEPTS - DATA RACK 2			1800	20	1	41		42	20	1			1800	~~RECEPTS - DATA RACK 4~~ FCU16
TOTALS	6480	6840	7920								7253	8058	8595	

ATS needs ckt designation
FCU-16 designation

VOLT AMPS:
BUS A 13733 DEMAND FACTOR 1 X LCL VA = 0 X 1.25 = 0
BUS B 14898 DEMAND FACTOR 1 X NON LCL VA = 45146
BUS C 16515 TOTAL VA = 45146
TOTAL 45146 3 PHASE VOLTAGE = 208
3 PHASE AMPS = 125.46

1923 BUILDING

SWGR MSB

VOLTAGE 208Y/120V — PHASE 3 — WIRE 4 — BUS AMPS 600
MAIN AMPS 600 — KAIC RATING 22
LOCATION ELECT. ROOM — MOUNTING FLOOR MOUNTED

DESCRIPTION	A	B	C	BRKR AMP	P	CKT NO.	BUS CONN.	CKT NO.	BRKR AMP	P	A	B	C	DESCRIPTION
PANEL 'S'	7100			200	3	1		2	200	3	9575			PANEL 'L'
		4164				3		4				10536		
			4614			5		6					8203	
PANEL 'P'	16780			200	3	7		8						SPACE
		9580				9		10						//////////
			11984			11		12						//////////
SPACE						13		14						SPACE
//////////						15		16						//////////
//////////						17		18						//////////
SPACE						19		20						SPACE
//////////						21		22						//////////
//////////						23		24						//////////
SPACE						25		26						SPACE
//////////						27		28						//////////
//////////						29		30						//////////
SPACE						31		32						SPACE
//////////						33		34						//////////
//////////						35		36						//////////
SPACE						37		38						SPACE
//////////						39		40						//////////
//////////						41		42						//////////
TOTALS	23880	13744	16598								9575	10536	8203	

VOLT AMPS:
BUS A 33455 DEMAND FACTOR 1 X LCL VA = 0 X 1.25 = 0
BUS B 24280 DEMAND FACTOR 1 X NON LCL VA = 82536
BUS C 24801 TOTAL VA = 82536
TOTAL 82536 3 PHASE VOLTAGE = 208
3 PHASE AMPS = 229.37

SEE RFI # 026-002 R002

PANEL S

VOLTAGE 208Y/120V — PHASE 3 — WIRE 4 — BUS AMPS 225
MAIN AMPS M.L.O. — KAIC RATING 22
LOCATION ELECT. ROOM — MOUNTING SURFACE

DESCRIPTION	A	B	C	BRKR AMP	P	CKT NO.	BUS CONN.	CKT NO.	BRKR AMP	P	A	B	C	DESCRIPTION
SPARE				20	1	1		2	15	1	180			~~LGTS - BLDG HIGHLIGHT~~ Breezeways
SPARE				20	1	3		4	15	1		195		~~LGTS - BLDG HIGHLIGHT~~ Breezeways
SPARE				20	1	5		6	15	1			360	LGTS - BLDG HIGHLIGHT
SPARE				20	1	7		8	15	1	150			~~LGTS - BLDG HIGHLIGHT~~ Bath
LGTS - LANDSCAPE		468		15	1	9		10	15	1		150		LGTS - BLDG HIGHLIGHT
LGTS - UNDERWATER			100	15	1	11		12	15	1			180	LGTS - LSCAPE INGRND
LGTS - PLANTERS	312			15	1	13		14	15	1	180			LGTS - LSCAPE INGRND
LGTS - PLANTERS		312		15	1	15		16	15	1		100		LGTS - LSCAPE WALK-ON
~~LGTS - LANDSCAPE~~			273	15	1	17		18	15	1			100	LGTS - LSCAPE WALK-ON
SPARE				20	1	19		20	15	1	100			LGTS - LSCAPE INGRND
SPARE				20	1	21		22	15	1		100		LGTS - LSCAPE WALK-ON
~~LGTS - LANDSCAPE~~			156	15	1	23		24	15	1			100	LGTS - LSCAPE INGRND
RECEPT - PLANTERS	2160			20	1	25		26	20	1	772			LGTS - COVERED PRKING
RECEPT - PLANTERS		1080		20	1	27		28	20	1				SPARE
GATE OPERATOR			1920	30	1	29		30	20	1			1425	LGTS - POLE LIGHTS
GATE OPERATOR	1920			30	1	31		32	20	1	815			LGTS - POLE LIGHTS
SPACE						33		34	20	1		1425		~~LGTS - POLE LIGHTS~~
SPACE						35		36	20	1			815	LGTS - POLE LIGHTS
SPACE						37		38						~~SPACE~~
SPACE						39		40						SPACE
SPACE						41		42						SPACE
TOTALS	4392	1860	2449								2197	1970	2980	

VOLT AMPS:
BUS A 6589 DEMAND FACTOR 1 X LCL VA = 8768 X 1.25 = 10960
BUS B 3830 DEMAND FACTOR 1 X NON LCL VA = 7080
BUS C 5429 TOTAL VA = 18040
TOTAL 15848 3 PHASE VOLTAGE = 208
3 PHASE AMPS = 50.13

PANEL L

VOLTAGE 208Y/120V — PHASE 3 — WIRE 4 — BUS AMPS 225
MAIN AMPS M.L.O. — KAIC RATING 22
LOCATION ELECT. ROOM — MOUNTING SURFACE

DESCRIPTION	A	B	C	BRKR AMP	P	CKT NO.	BUS CONN.	CKT NO.	BRKR AMP	P	A	B	C	DESCRIPTION
FCU - 1A	988			20	2	1		2	20	1	211			LGTS - RM 113/114
//////////		988				3		4	20	1		211		LGTS - RM 103/104
FCU - 1B			988	20	2	5		6	20	1			365	LGTS - WOMEN RSTRM
//////////	988					7		8	20	1	365			LGTS - MEN RSTRM
FCU - 2		239		15	2	9		10	20	1		278		LGTS - ELECT/FIRE RISER
//////////			239			11		12	20	1			280	LGTS - EXIT/EMERG
FCU - 3	1112			20	2	13		14	20	1	480			LGTS - RM 101
//////////		1112				15		16	20	1		480		LGTS - RM 105
FCU - 4			239	15	2	17		18	20	1			480	LGTS - RM 106
//////////	239					19		20	20	1	480			LGTS - RM 112
FCU - 5		1112		20	2	21		22	20	1		360		LGTS - RM 100
//////////			1112			23		24	20	1			720	LGT/RECEPT - MAINT
FCU - 6	1112			20	2	25		26	20	1	960			LGT/RECEPT - MAINT
//////////		1112				27		28	20	1		1260		RECEPT
RECEPT			1080	20	1	29		30	20	1			900	RECEPT
RECEPT	720			20	1	31		32	20	1	900			RECEPT
RECEPT		1080		20	1	33		34	20	1		720		RECEPT
RECEPT			720	20	1	35		36	20	1			720	GFI RECEPT
RECEPT	720			20	1	37		38	20	1	300			FACP PANEL
RECEPT		1080		20	1	39		40	20	1		~~504~~		~~EH - 1~~
RECEPT			360	20	1	41		42	20	1			85	LGTS - BASEMENT
TOTALS	5879	6723	4738								3696	3813	3550	

VOLT AMPS:
BUS A 9575 DEMAND FACTOR 1 X LCL VA = 3990 X 1.25 = 4988
BUS B 10536 DEMAND FACTOR 1 X NON LCL VA = 24409
BUS C 8288 TOTAL VA = 29397
TOTAL 28399 3 PHASE VOLTAGE = 208
3 PHASE AMPS = 81.69

SEE RFI # 026-043

PANEL P

VOLTAGE 208Y/120V — PHASE 3 — WIRE 4 — BUS AMPS 225
MAIN AMPS M.L.O. — KAIC RATING 22
LOCATION ELECT. ROOM — MOUNTING SURFACE

DESCRIPTION	A	B	C	BRKR AMP	P	CKT NO.	BUS CONN.	CKT NO.	BRKR AMP	P	A	B	C	DESCRIPTION
GHP - 1	1196			20	2	1		2	20	2	1196			GHP - 2
		1196				3		~~4~~				~~1196~~		
GHP - 3			1196	20	2	5		6						SPARE
	1196					7		8						
GHP - 5		1196		20	2	9		~~10~~	~~20~~	~~2~~		~~1196~~		~~GHP - 6~~
			1196			11		12					1196	
GHP - 7	1196			20	2	13		14	40	2	3600			CHARGING STATION
		1196				15		16				3600		//////////
CHARGING STATION			3600	40	2	17		18	40	2			3600	CHARGING STATION
//////////	3600					19		20			3600			//////////
SPACE						21		22	20	1				SPARE
SPACE						23		24	20	1				~~SPARE~~ Mech yard #
SPACE						25		26	20	1				SPARE
SPACE						27		28						SPACE
SPACE						29		30						SPACE
SPACE						31		32						SPACE
SPACE						33		34						SPACE
SPACE						35		36						SPACE
SPACE						37		38						SPACE
SPACE						39		40						SPACE
SPACE						41		42						SPACE
TOTALS	7188	3588	5992								8396	5992	4796	

VOLT AMPS:
BUS A 15584 DEMAND FACTOR 1 X LCL VA = 0 X 1.25 = 0
BUS B 9580 DEMAND FACTOR 1 X NON LCL VA = 35952
BUS C 10788 TOTAL VA = 35952
TOTAL 35952 3 PHASE VOLTAGE = 208
3 PHASE AMPS = 99.91

'MSA'	PANEL 'LP'	PANEL 'MP'	PANEL 'A' TYPICAL FOR PANELS B-G
PANEL 'HSE'	PANEL 'NP' (IF SHELL ONLY)	PANEL 'NP' (IF W/ KCEP T.I.)	PANEL 'EP'
'MSB'	PANEL 'S'	PANEL 'L'	PANEL 'P'

REVISIONS
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2 --
3 OWNER'S REVISION

ARCHITECT
kme ARCHITECTS
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6765 WEST RUSSELL ROAD, SUITE 200
LAS VEGAS, NEVADA 89118
P: 702-888-2088 / F: 702-888-2089
WEB: www.kmearchitects.com

CONSULTANT
pid consulting engineers/designers
pidconsultingllc@gmail.com
Arizona California Idaho Montana Nevada Utah Wyoming
15611 W Gross Avenue
Goodyear, AZ 85338
P: (702)366-0634
pidconsultingllc@gmail.com

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OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6535
FAX: (702) 382-3232
TDD: (702) 386-9108

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