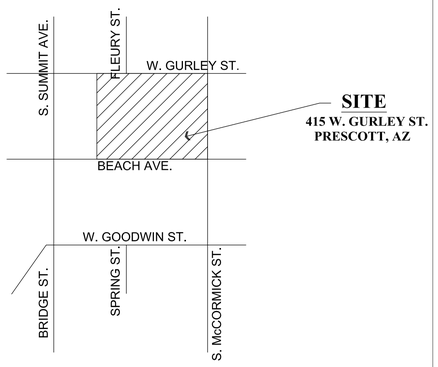
Sharlot Hall Education Center Addition

PRESCOTT, ARIZONA

Area Map



Vicinity Map



Project Information

CLIENT:	Sharlot Hall Historical Society 415 West Gurley Street Prescott, AZ 86301	PH: 928-445-3122 ext. 12 CONTACT: Fred Veil fredv@sharlot.org
PREPARED BY:	W. Alan Kenson & Assoc., P.C. P.O. Box 11593 Prescott, AZ 86304	PH: 928-443-5812 FAX: 928-443-5815 CONTACT: Alan Kenson WAKA@cableone.net
JOBSITE ADDRESS:	415 West Gurley Street Prescott, AZ 86301	
PARCEL NUMBER:	109-02-035	
ZONING:	DTB - Downtown Business	
OCCUPANCY:	A, B, S1	
CONST. TYPE:	II-B	
CURRENT CODE:	2012 International Building Code	
SITE USE:	Museum	
SITE AREA:	0.23 Acres	
BUILDING AREA:	Basement: 3,483 S.F. First Floor: 3,483 S.F. Second Floor: 3,520 S.F. Total: 10,486 S.F.	
PARKING:	Parking is existing and sufficient.	

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A1.3	Construction Access / Signage Plan
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E1.6	Second Floor Power Plan
E1.7	Roof Mounted Mechanical Power Plan

Deferred Submittals

The following items are required and will be provided as a deferred submittal:

1. Automatic Fire Sprinkler System.
2. ~~Fire Alarm System.~~
3. Elevator Specifications. (1)

Automatic Fire Sprinkler System & Fire Alarm System submittal documents for deferred submittal shall be submitted to the local fire district, who shall review them and forward them to the building official, with a notation indicating that the deferred submittal documents have been reviewed and that they have been found to be in general conformance with the design of the building. The deferred submittal items shall "NOT" be installed until their design and submittal documents have been approved by the fire marshal having jurisdiction. It should be noted that the fire alarm panel, the fire department knox box, the fire riser, and the FDC all already exist on the existing building.

Graphic Standards

- NORTH ARROW INDICATOR
- DETAIL DESIGNATOR (NUMBER / SHEET)
- BUILDING SECTION DESIGNATOR (LETTER / SHEET)
- GRID LINE DESIGNATOR
- REVISION DESIGNATOR (NUMBER)
- ELEVATION DESIGNATOR (#/SHEET)
- DESCRIPTIVE NOTE DESIGNATOR
- ROOM NUMBER / FINISH DESIGNATOR
- DOOR NUMBER DESIGNATOR (#)
- DOOR TYPE DESIGNATOR (LETTER)
- WINDOW TYPE DESIGNATOR (LETTER)
- WALL TYPE DESIGNATOR

Project Description

Sharlot Hall Historical Museum intends to construct a 2 story building plus basement building addition attached to the John and Helen Lawler Exhibit Center. An auditorium, lobby, restrooms, warming kitchen, AV room, elevator and stairs will be included on the first floor. The second floor will consist of offices, classrooms, copy room, storage and restrooms. The basement will be used for storage.

Architect:

W. Alan Kenson & Associates, P.C.

P 928-443-5812 — P.O. Box 11593
F 928-443-5815 — Prescott, AZ 86304
email: waka@cableone.net
www.kenson-associates.com
ARCHITECTURE & PLANNING

Dec 27, 2018 - 1:10pm

REVISIONS	BY
1 CITY COMMENTS 12-10-2018	LO

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REGISTERED ARCHITECT — CERTIFICATE NO. 25646 — W. ALAN KENSON — Date Signed 11/01/18 — ARIZONA — EXPIRES: 6/30/21

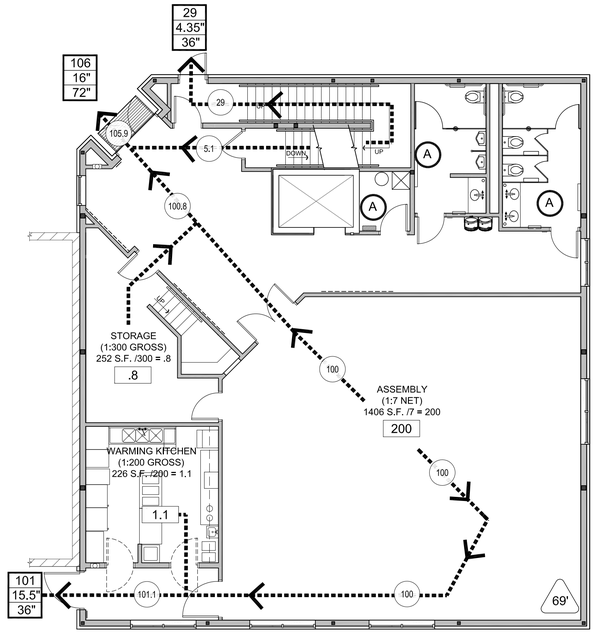
W. Alan Kenson & Associates, P.C.
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ARCHITECTURE & PLANNING

DRAWING: Cover Sheet

PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ. 86301

APN: 109-02-035

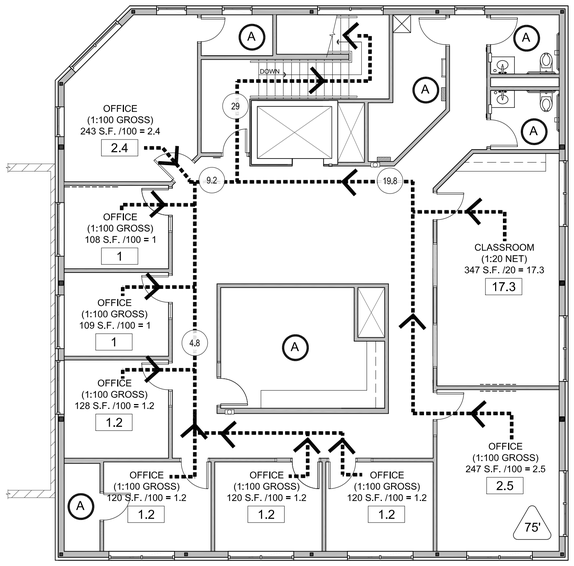
DRAWN BY: L.O.
CHECKED BY: W.A.K.
DATE: Oct 30th, 2018
JOB NO.: 710
SHEET: **CS1**



A2 Occupancy / Egress / First Floor

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

North

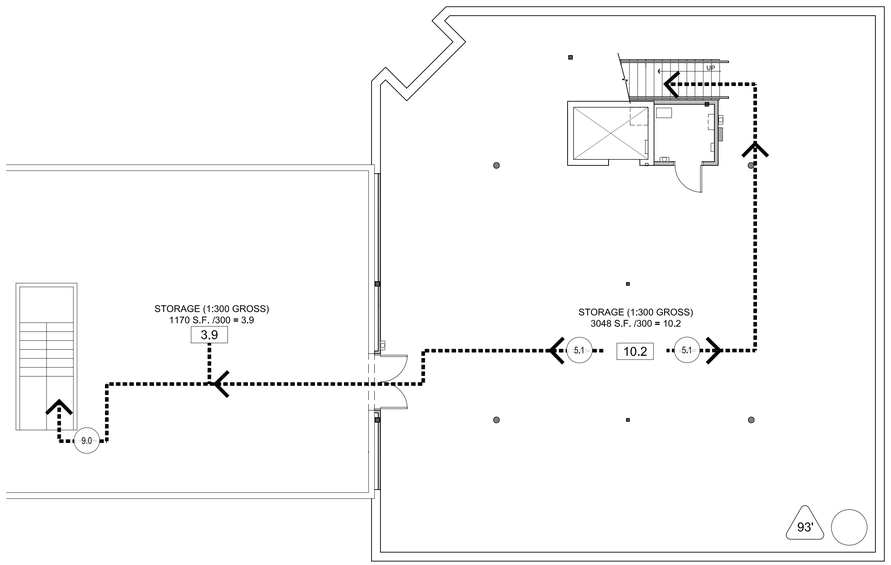


B2 Occupancy / Egress / Second Floor

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

North

1



A1 Occupancy / Egress / Basement

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

North

Egress Legend:

- EXIT ACCESS
- (A) ACCESSORY USE (NO OCCUPANCY)
- [XX] ROOM OCCUPANCY LOAD
- (XX) SUBTOTAL OCCUPANCY LOAD
- [XX] OCCUPANCY TOTAL
  [XX] REQUIRED EXIT WIDTH (FACTOR = 0.15)
  [XX] PROVIDED EXIT WIDTH
- <# > WORST CASE TRAVEL DISTANCE

FUNCTION OF SPACE	OCCUPANT LOAD FACTOR
ASSEMBLY	7 NET
ASSEMBLY	15 NET
OFFICE	100 GROSS
STORAGE	300 GROSS
WARMING KITCHEN	200 GROSS
CLASSROOM	20 NET

Occupant load

NOTE:
GROSS SQUARE FOOTAGE LISTED BELOW
DOES NOT INCLUDE ACCESSORY AREAS.

ASSEMBLY :	1,406 SQ. FT.	200	OCCUPANTS
OFFICE :	1,195 SQ. FT.	12	OCCUPANTS
STORAGE :	3,300 SQ. FT.	11	OCCUPANTS
WARMING KITCHEN :	231 SQ. FT	1	OCCUPANTS
CLASSROOM:	347 SQ. FT.	17	OCCUPANTS
TOTAL :	6,419 SQ. FT.	241	OCCUPANTS

Accessibility Notes

1. ACCESS TO THESE FACILITIES SHALL BE AT PRIMARY ENTRANCES.
2. THE SLOPE OF PUBLIC WALKS SHALL NOT EXCEED A MAXIMUM CROSS SLOPE OF 2%.
3. WALKING SURFACES GREATER THAN 2% SHALL BE SLIP RESISTANT.
4. PROVIDE A 44"x60" MINIMUM LANDING ON THE STRIKE SIDE OF THE ENTRANCE DOOR WITH 44" MINIMUM WIDTH IN THE DIRECTION OF TRAVEL.
5. WALLS SHALL EXTEND 18" TO THE SIDE OF THE STRIKE EDGE OF A DOOR OR GATE THAT SWINGS TOWARDS THE OCCUPANT.
6. RAMPS SHALL HAVE A NON-SLIP SURFACE.
7. RAMPS SHALL BE A MINIMUM OF 36" WIDE.
8. EVERY REQUIRED EXIT DOORWAY SHALL BE SIZED FOR A DOOR NOT LESS THAN 36" WIDE BY NOT LESS THAN 6'-8" HIGH CAPABLE OF OPENING 90 DEGREES AND MOUNTED SO THE CLEAR WIDTH OF THE EXIT WAY IS 32" MINIMUM.
9. THRESHOLDS TO BE A MAXIMUM OF 1/4" ABOVE ADJACENT FLOOR FINISH. ONE-HALF INCH THRESHOLD MAY BE USED IF BEVELED PER A.D.A. STANDARDS.
10. MAXIMUM EFFORT TO OPERATE A DOOR SHALL NOT EXCEED 5 POUNDS.
11. THE BOTTOM 10 INCHES OF ALL DOORS EXCEPT AUTOMATIC AND SLIDING DOORS SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE.
12. PROVIDE LEVER TYPE HARDWARE, PANIC BARS, PUSH AND PULL ACTIVATING BARS, OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE. (30" TO 44" A.F.F.)

Nonseparated Occupancies

Compliance with the nonseparated occupancies section 508.3

FROM TABLE 503
ALLOWABLE AREA =9,500 S.F. PLUS 19,000 S.F. (FIRE SPRINKLER INCREASE) = 28,500 S.F.
PLUS 7,125 S.F. (75% FRONTAGE INCREASE) = 35,625 S.F. ALLOWABLE, WHICH IS GREATER THAN THE 30,454 S.F. THAT IS ACTUAL S.F.

FIRE SPRINKLER INCREASE OF 200%

FRONTAGE CALCULATION FROM (506.2)
If = [779 / 779 - .25]1
FRONTAGE INCREASE If = 75%

SQUARE FOOTAGE AMOUNTS INDICATED BELOW INCLUDE THE EXISTING BUILDING AND THE PROPOSED BUILDING ADDITION.

Basement S-1	1st Floor A-2	2nd Floor B
13,467 S.F. ACTUAL AREA 35,625 S.F. ALLOWABLE AREA*	13,467 S.F. ACTUAL AREA 35,625 S.F. ALLOWABLE AREA	3,520 S.F. ACTUAL AREA 35,625 S.F. ALLOWABLE AREA*
40%	40%	11% TOTAL = 91%

*Using higher occupancy classification of A-2

NOTE:
- PROVIDE A 6"x9" BLUE TACTILE 'EXIT' SIGN AS MANUFACTURED BY 'SIMPLY EXIT SIGNS (#SE-1980)' OR EQUAL COMPLYING WITH ADA SECTION 703 ADJACENT TO EACH DOOR TO AN EXIT PASSAGEWAY AND THE EXIT DISCHARGE. SIGN SHALL BE MOUNTED 60" A.F.F. TO THE BOTTOM OF THE HIGHEST LINE OF TACTILE CHARACTERS.

Plumbing Calculations

	OCCUPANCY CLASSIFICATION	OCCUPANCY COUNT	WATER CLOSETS MEN	URINALS	WATER CLOSETS WOMEN	LAVATORIES MEN	LAVATORIES WOMEN	DRINKING FOUNTAINS
	ASSEMBLY	201	.80		1.5	.50	.50	.40
	BUSINESS	29	.58		.58	.36	.36	.29
	STORAGE	11	.06		.06	.06	.06	.01
TOTAL REQUIRED			1.44		2.1	.92	.92	.79
TOTAL PROPOSED			2 (ACCESSIBLE)	2	4 (2 ACCESSIBLE)	2	3	2

REVISIONS		BY
1	CITY COMMENTS 12-10-2018	LO

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REGISTERED ARCHITECT
CERTIFICATE NO.
25646
W. ALAN KENSON
Date Signed 11/01/18
ARIZONA
EXPIRES: 6/30/21

W. Alan Kenson & Associates, P.C.
P 928-443-5812
F 928-443-5815
P.O. Box 11593
Prescott, AZ 86304
email: waka@cableone.net
www.kenson-associates.com
ARCHITECTURE & PLANNING

DRAWING: Code Summary

PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ, 86301

APN: 109-02-035

DRAWN BY: L.O.
CHECKED BY: W.A.K.
DATE: Oct 30th, 2018
JOB NO.: 710
SHEET: CS2

Dec 27, 2018 - 1:10pm



SHARLOT HALL EDUCATION CENTER

APN. 109-02-035
415 WEST GURLEY ST, PRESCOTT, ARIZONA
POR. SECTION 4, TOWNSHIP 13 NORTH, RANGE 2 WEST,
GILA AND SALT RIVER MERIDIAN, YAVAPAI COUNTY, ARIZONA

CITY OF PRESCOTT
Everybody's Hometown

APPROVED BY

CITY ENGINEER _____ Date _____

UTILITIES MANAGER _____ Date _____

UTILITY INFORMATION

COMPANY	CONTACT	TELEPHONE
ARIZONA PUBLIC SERVICE CO. 120 NORTH MARINA PRESCOTT, ARIZONA 86301	ANITA PAYNE	(928)443-6660
CENTURYLINK 1445 MASONRY WAY PRESCOTT, ARIZONA 86301	KAREN PRUTZMAN	(928)515-6776
UNISOURCE GAS CO. 6405 WILKINSON DRIVE PRESCOTT, ARIZONA 86301	JEFF BROWN	(928)771-7226
CABLE ONE 3201 TOWER RD. PRESCOTT, ARIZONA 86305	ERNIE ORTEGA	(928)910-3096
CITY OF PRESCOTT UTILITIES P.O. BOX 2059 PRESCOTT, ARIZONA 86301	ERIC V. BAY, PE	(928)777-1130

BLUE STAKE CALL TWO WORKING DAYS BEFORE YOU DIG
1-800-STAKE-IT
outside Maricopa County

CALL TWO WORKING DAYS BEFORE YOU DIG
1-800-STAKE-IT
1-800-782-5348
(OUTSIDE MARICOPA COUNTY)

NOTE:
CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ANY NECESSARY UTILITY RELOCATION WITH THE APPLICABLE UTILITY.

LEGEND:

- FIRE HYDRANT
- WATER VALVE
- WATER METER BOX
- RPZ ASSEMBLY
- SEWER CLEANOUT
- SEWER BACKWATER VALVE
- SANITARY SEWER MANHOLE
- EXISTING TREE
- EXISTING LIGHT
- EXISTING MAILBOX
- EXISTING SIGN
- EXISTING POWER POLE
- 8" S — SEWER LINE (SIZE AS NOTED)
- 8" W — WATER LINE (SIZE AS NOTED)
- G — GAS LINE
- E — ELECTRIC LINE
- OHE — OVERHEAD ELECTRIC LINE
- T — TELEPHONE LINE
- 4" F — FIRE LINE (SIZE AS NOTED)
- 5370 — DESIGN FINISH GRADE
- -----5370----- EXISTING GRADE CONTOUR

ABBREVIATION LEGEND:

EC	EXISTING CONCRETE ELEVATION
EG	EXISTING GROUND ELEVATION
EP	EXISTING PAVEMENT
ETC	EXISTING TOP OF CURB
EX	EXISTING
FC	NEW FINISHED CONCRETE ELEVATION
FF	NEW FINISHED FLOOR ELEVATION
FG	NEW FINISHED GRADE ELEVATION
FL	NEW FLOWLINE ELEVATION
G/B	GRADE BREAK
H/P	HIGH POINT
INV	INVERT
L/P	LOW POINT
P	PAVEMENT OR FINISHED SURFACE
PUE	PUBLIC UTILITY EASEMENT
TC	NEW TOP OF CURB ELEVATION
TW	NEW TOP OF WALL ELEVATION

PROJECT CONTROL:

VERTICAL DATUM: NAVD-88 (COP CONVERSION FROM STATE PLANE
HORIZONTAL DATUM: CITY OF PRESCOTT GRID COORDINATE SYSTEM.

PARCEL INFORMATION:

TOTAL PARCEL AREA = 0.23 ACRES PER YAV.CO.GIS

DISTURBED AREA = ±0.21 ACRES

FLOOD ZONE DESIGNATION:

FEMA FIRM MAP NUMBER 04025C2061H, EFFECTIVE DATE 03/06/2018.

THE BUILDING LIES WHOLLY IN ZONE AE (100 YEAR FLOODPLAIN AND FLOODWAY.)

OWNER:

STATE PRESCOTT HISTORICAL SOCIETY
415 WEST GURLEY STREET
PRESCOTT, AZ 86301-3615
(928) 445-3122

ARCHITECT:

ALAN KENSON
W. ALAN KENSON & ASSOCIATES, P.C.
P.O. BOX 11593
PRESCOTT, AZ 86304
WAKA@CABLEONE.NET
(928) 443-5812

SHEET INDEX

SHEET NO.	SHEET	DESCRIPTION
1	G-001	COVER
2-3	C-001-002	GENERAL NOTES
4	C-101	TOPOGRAPHIC SURVEY
5	C-102	GRADING AND DRAINAGE PLAN
6	C-103	WATER AND SEWER PLAN
7	C-501	STANDARD DETAILS

RECORD DRAWING CERTIFICATION

I HEREBY CERTIFY, TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THAT THIS PROJECT HAS BEEN COMPLETED IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED PLANS, SPECIFICATIONS AND REFERENCED STANDARDS, EXCEPT AS SHOWN HEREON; THAT THESE AS-BUILT PLANS REFLECT THE POSITION OF CONSTRUCTED IMPROVEMENTS BASED ON FIELD MEASUREMENTS; AND THAT THE MATERIALS USED IN CONSTRUCTION ARE AS SHOWN BASED ON FIELD OBSERVATION AND TEST RESULTS.

THIS CERTIFICATION DOES NOT WARRANT MATERIALS, WORKMANSHIP, METHODS OF CONSTRUCTION, OR OTHER ITEMS AFFECTING THE WARRANTY OF THIS PROJECT, TO THE CITY OF PRESCOTT. USERS OF THIS INFORMATION ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ACTUAL CONDITIONS.

REGISTERED PROFESSIONAL ENGINEER (CIVIL) _____ DATE _____

SPECIAL NOTE:

THE CITY OF PRESCOTT STANDARD DETAILS AND SPECIFICATIONS MEET MINIMUM DESIGN REQUIREMENTS OF THE EQUIVALENT MAG SPECIFICATIONS AND STANDARD DETAILS.

APPROVED TRAFFIC CONTROL PLAN AND R.O.W. PERMIT MUST BE OBTAINED FROM PUBLIC WORKS PRIOR TO BEGINNING WORK IN THE R.O.W.

CITY OF PRESCOTT PUBLIC WORKS IS RESPONSIBLE FOR INSPECTION OF IMPROVEMENTS IN THE R.O.W. AND DESIGNATED PUBLIC UTILITY EASEMENTS ONLY. ALL OTHER IMPROVEMENTS (ON-SITE) SHALL BE INDEPENDENTLY INSPECTED.

REVISIONS	BY

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Registered Professional Engineer (Civil)
22884
GARY R. KELLEY
Date signed
ARIZONA, U.S.A.
EXPIRES 06/30/21

W. Alan Kenson & Associates, P.C.
P.O. Box 11593
Prescott, AZ 86304
P 928-443-5812
F 928-443-5815
email: waka@cableone.net
www.kenson-associates.com
ARCHITECTURE & PLANNING

AUGUST 2018

415 WEST GURLEY ST

ENG

DRAWING: Civil Plans COVER

PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ, 86301

APN: 109-02-035

DRAWN BY: FWA
CHECKED BY: GRK
DATE: October 30, 2018
JOB NO.: KWE #17090
SHEET 1 of 7

G-001

Oct 30, 2018 - 3:46pm

1. ALL CONSTRUCTION SHALL CONFORM TO MARICOPA ASSOCIATION OF GOVERNMENTS (MAG), & CITY OF PRESCOTT (COP) CONSTRUCTION STANDARDS & SPECIFICATIONS, LATEST REVISIONS, UNLESS SPECIFICALLY APPROVED BY THE CITY AND MODIFIED ON THE PLANS, IN CONJUNCTION WITH THE LATEST REVISIONS OF THE MARICOPA ASSOCIATION OF GOVERNMENTS STANDARD SPECIFICATIONS AND DETAILS (MAG STANDARDS), UNLESS SPECIFICALLY MODIFIED ON THE PLANS.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN COPIES OF MAG AND CITY OF PRESCOTT STANDARDS AND SPECIFICATIONS AS WELL AS ALL OTHER STANDARDS AND SPECIFICATIONS NECESSARY TO COMPLETELY AND ACCURATELY INTERPRET THESE PLANS.
3. ALL PLANS SIGNED BY THE CITY ENGINEER ARE NULL AND VOID ONE YEAR FROM DATE OF SIGNATURE IF CONSTRUCTION HAS NOT STARTED. RESUBMITTAL AND REVIEW SHALL BE REQUIRED, AT ITEM ONE YEAR.
4. ALL QUANTITIES SHOWN ON THE PLANS ARE APPROXIMATE, ARE NOT VERIFIED BY THE PUBLIC WORKS DIRECTOR, AND ARE FURNISHED SOLELY FOR THE CONTRACTOR'S CONVENIENCE. THEY DO NOT NECESSARILY CORRESPOND TO BID SCHEDULE ITEMS. PAYMENT SHALL BE BASED ON BID SCHEDULE ITEMS FOR ACTUAL QUANTITIES PROVIDED AND INSTALLED. THE CONTRACTOR SHALL NOT BE RELIEVED OF HIS RESPONSIBILITY FOR INDEPENDENTLY ESTIMATING WORK QUANTITIES PRIOR TO BIDDING.
5. CITY OF PRESCOTT PUBLIC WORKS DEPARTMENT PERMID(S) WILL BE REQUIRED FOR ALL OFF-SITE CONSTRUCTION AND CONSTRUCTION WITHIN THE PUBLIC RIGHT OF WAY.
6. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN, AT HIS OWN EXPENSE, SUCH PERMITS AS ARE REQUIRED FROM THE APPROPRIATE AGENCIES.
7. THE PUBLIC WORKS DEPARTMENT SHALL BE NOTIFIED A MINIMUM OF 24 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION IN THE PUBLIC RIGHT OF WAY.
8. ANY WORK PERFORMED WITHOUT THE KNOWLEDGE AND APPROVAL OF THE PUBLIC WORKS DIRECTOR AND/OR ALL WORK MATERIALS NOT IN CONFORMATION WITH THE PLANS AND SPECIFICATIONS IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
9. A THOROUGH ATTEMPT HAS BEEN MADE TO SHOW THE LOCATION OF ALL UNDERGROUND OBSTRUCTIONS AND UTILITY LINES IN THE WORK AREA. THE ENGINEER AND THE CITY OF PRESCOTT WILL NOT GUARANTEE ANY LOCATIONS OR ELEVATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR MAKING A COMPLETE AND ACCURATE ON-SITE DETERMINATION OF THE LOCATIONS, MATERIAL, AND SIZE OF ALL UTILITIES, STRUCTURES, AND FIELD CONDITIONS WHICH MAY AFFECT THE PROGRESS OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO STRUCTURES AND UTILITIES ENCOUNTERED DURING CONSTRUCTION AND SHALL FIELD EXPOSE EXISTING UNDERGROUND UTILITIES PRIOR TO TRENCHING IN THEIR VICINITY.
10. THE CONTRACTOR IS REQUIRED TO CONTACT BLUE STAKE (1-800-STAKEIT) A MINIMUM OF TWO WORKING DAYS (48) HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE APPROPRIATE UTILITY COMPANIES SHALL BE NOTIFIED BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE RELOCATION AND/OR SUPPORT OF ALL UTILITIES, POWER POLES, ETC., THAT MAY BE NECESSARY.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING TO THE PUBLIC WORKS DEPARTMENT FOR APPROVAL, TRAFFIC CONTROL PLANS PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL DETERMINE AND SUBMIT FOR APPROVAL THE EXACT SIGNING/TRAFFIC CONTROL DEVICES NECESSARY AND ALL TRAFFIC CONTROL WORK SHALL BE IN ACCORDANCE WITH THE LATEST REVISIONS THEREOF. NO STREET IS TO BE CLOSED, RESTRICTED, OR CONSTRUCTED UPON UNTIL A TRAFFIC CONTROL PLAN IS PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE PUBLIC WORKS DIRECTOR ONE WEEK IN ADVANCE FOR REVIEW AND APPROVAL.
13. APPROPRIATE EMERGENCY AGENCIES SHALL BE NOTIFIED A MINIMUM OF 24 HOURS PRIOR TO ANY CLOSING OF STREETS.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION SURVEYING AND LAYOUT WITH CONTROL PROVIDED BY THE DESIGN ENGINEER OR HIS DESIGNEE.
15. THE CONTRACTOR IS RESPONSIBLE FOR QUALITY CONTROL MEASURES SUFFICIENT TO PRODUCE MATERIALS AND WORKMANSHIP OF ACCEPTABLE QUALITY. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL SUBMIT A QUALITY CONTROL PLAN. THE CONTRACTOR AT HIS OWN EXPENSE SHALL PROVIDE AN INDEPENDENT GEOTECHNICAL FIRM TO PERFORM QUALITY CONTROL TESTING SUCH AS SOILS AND CONCRETE TESTING, AND FULL TIME ASPHALTIC CONCRETE LAYDOWN COMPACTION TESTING AND ADEQUATE PLANT CONTROL FOR EACH PAVING DAY. THE CITY, BY SEPARATE CONTRACT, WILL BE RESPONSIBLE FOR QUALITY ASSURANCE TESTING AS IT MAY DEEM NECESSARY.
16. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL COSTS OF TESTING AND INSPECTION, INCLUDING THE PRESENCE OF INSPECTORS, REQUIRED AT NIGHT OR ON WEEKENDS.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RE-WORK AND/OR REMOVAL AND REPLACEMENT OF ALL MATERIALS REPRESENTED BY FAILING TESTS OR SUBSTANDARD WORKMANSHIP.
18. THE CONTRACTOR SHALL IMPLEMENT BEST-HOUSE-KEEPING MEASURES, AND EROSION AND SEDIMENT CONTROL MEASURES, TO PREVENT THE TRANSPORT OF CONSTRUCTION MATERIALS INTO DRAINAGE INLETS, STORM DRAIN MANHOLES, UTILITY STRUCTURES, OR ONTO ADJACENT STREETS AND PROPERTIES.
19. APPROVAL OF A PORTION OF THE WORK IN PROGRESS DOES NOT GUARANTEE ITS FINAL ACCEPTANCE. TESTING AND EVALUATION MAY CONTINUE UNTIL THE WRITTEN FINAL ACCEPTANCE OF A COMPLETE AND WORKABLE UNIT.
20. THE CITY OF PRESCOTT MAY SUSPEND THE WORK BY WRITTEN NOTICE WHEN, IN ITS JUDGEMENT, PROGRESS IS UNSATISFACTORY, WORK BEING DONE IS UNAUTHORIZED OR DEFECTIVE, WEATHER CONDITIONS ARE UNSTABLE, OR THERE IS A DANGER TO THE PUBLIC HEALTH AND SAFETY.
21. ALL OBSTRUCTIONS IN THE RIGHT OF WAY SHALL BE REMOVED BEFORE ANY CONSTRUCTION IS PERMITTED.
22. REMOVAL OF STRUCTURES AND OBSTRUCTIONS AS NECESSARY TO COMPLETE THE WORK, OTHER THAN SPECIFICALLY SCHEDULED IN THE BID, IS INCIDENTAL TO THE CONTRACT. NO SEPARATE MEASUREMENT OR OR PAYMENT FOR UNSCHEDULED REMOVAL ITEMS WILL BE MADE.
23. CLEARING AND GRUBBING IS CONSIDERED INCIDENTAL TO THE WORK UNLESS SPECIFICALLY IDENTIFIED IN THE BID SCHEDULE. NO SEPARATE MEASUREMENT OR OR PAYMENT FOR CLEARING AND GRUBBING, AND TREE REMOVAL WILL BE MADE. THE SITE OF ALL EXCAVATION, EMBANKMENTS, AND FILLS SHALL FIRST BE CLEARED OF STUMPS, TRASH, WEEDS, RUBBISH, TOPSOIL, AND LOOSE BOULDERS WHICH SHALL BE REMOVED AND DISPOSED OF PRIOR TO BIDDING THE CONTRACTOR MUST SATISFY HIMSELF REGARDING THE CHARACTER OF THE SUBSOILS TO INCLUDE THE AMOUNT OF LOAM, CLAY, SAND, QUICKSAND, HARDPAN, GRAVEL, ROCK, WATER, AND ALL OTHER MATERIAL TO BE ENCOUNTERED AND WORK TO BE PERFORMED.
24. THE CONTRACTOR SHALL GUARD AGAINST DAMAGE DURING CONSTRUCTION TO EXISTING PROPERTIES AND IMPROVEMENTS. ANY ITEMS DAMAGED BY THE CONTRACTOR'S ACTIVITIES SHALL BE REPLACED IN KIND OR BETTER AT THE CONTRACTOR'S EXPENSE.
25. THE CONTRACTOR SHALL KEEP SUITABLE EQUIPMENT ON HAND AT THE JOBSITE FOR MAINTENANCE DUST CONTROL AND SHALL CONTROL DUST AS DIRECTED BY THE APPROPRIATE AGENCY.
26. STREET AND TRAFFIC SIGNS SHALL BE RELOCATED BY THE CONTRACTOR IF NECESSARY, AT THE DIRECTION OF THE PUBLIC WORKS DIRECTOR.
27. SHOULDER TYPE TO BE CLASS 7 (MAG, SECTION 601) UNLESS OTHERWISE NOTED.
28. AGGREGATE BASE COURSE SHALL NOT BE PLACED ON SUBGRADE UNTIL SUBGRADE REQUIREMENTS HAVE BEEN ACHIEVED.
29. NO PAVING CONSTRUCTION SHALL BE STARTED UNTIL ALL UNDERGROUND UTILITIES WITHIN THE ROADWAY PRISM ARE VERIFIED FOR DETAIL CONFORMANCE, COMPLETED AND TESTED (TO INCLUDE BUT NOT LIMITED TO SEWER TESTING, LOW AIR TESTING OF MAIN LINE AND SERVICES, TRACE WIRE TESTING, DEFLECTION TESTING AND VERIFICATION OF MANHOLES CONFORMING TO COP DETAIL 420P, WATER TESTING CHLORINATION/DISINFECTION OF MAIN LINE AND SERVICES, PRESSURE TESTING, TRACE WIRE TESTING AND VERIFICATION OF VALVE BOXES CONFORMING TO COP DETAIL 391P.
30. ALL ASPHALT CONCRETE PAVEMENT SHALL BE PER APPLICABLE MAG SPECIFICATIONS AS AMENDED BY THE CITY. ASPHALT CONCRETE MIX DESIGN SHALL BE SUBMITTED TO THE PUBLIC WORKS DIRECTOR OR HIS DESIGNEE FOR APPROVAL PRIOR TO START OF CONSTRUCTION.
31. ALL UTILITY FRAMES, COVERS, VALVE BOXES, MANHOLES, ETC. SHALL BE ADJUSTED TO FINISH ASPHALT GRADE AFTER PLACEMENT BY THE CONTRACTOR PER COP STANDARD DETAILS.
32. ACCEPTANCE OF THE COMPLETED PAVING STRUCTURES WILL NOT BE GIVEN UNTIL REPRODUCIBLE "AS-BUILT" PLANS HAVE BEEN SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE CITY.
33. ALL CONCRETE TO BE AT LEAST 3000 PSI CLASS "A" PORTLAND CEMENT CONCRETE, UNLESS OTHERWISE SPECIFIED ON THE PLANS, SPECIFICATIONS, OR IN STANDARD DETAILS.
34. EDGES OF CONCRETE STRUCTURES TO HAVE A ¾" CHAMFER, UNLESS OTHERWISE SPECIFIED ON THE PLANS.
35. CONCRETE SURFACES TO HAVE A BROOM FINISH UNLESS OTHERWISE NOTED ON THE PLANS.
36. ALL EXPANSION JOINTS TO BE SEALED WITH ¾" EXPANSION JOINT, PRE-FORMED JOINT FILLER AND SEALER, IN ACCORDANCE WITH MAG SECTION 729.
37. DRIVEWAY ENTRANCES WILL BE LOCATED AS SPECIFIED ON THE PLANS UNLESS MODIFIED IN THE FIELD BY THE ENGINEER. ALL DRIVEWAY ENTRANCES SHALL BE CONSTRUCTED OVER 6" THICK AGGREGATE BASE COURSE, PER MAG SPECIFICATION 702 AND COMPACTED TO 95% OF STANDARD PROCTOR DENSITY, UNLESS OTHERWISE NOTED.
38. ALL DISTURBED FENCES SHALL BE REPLACED IN KIND. CONTRACTOR SHALL EXTEND FENCE REPLACEMENT TO THE CLOSEST UPRIGHT SUPPORT NECESSARY FOR STABILITY.
39. MAILBOXES SHALL BE REMOVED AND REINSTALLED AS DIRECTED BY THE U.S. POSTAL SERVICE AND THE CITY OF PRESCOTT TEMPORARY LOCATIONS SHALL BE PER U.S.P.S.
40. NO JOB WILL BE CONSIDERED COMPLETE UNTIL ALL CURBS, PAVEMENT, AND SIDEWALKS HAVE BEEN SWEPT CLEAN OF ALL DIRT AND DEBRIS.
41. THE CONTRACTOR SHALL WARRANT ALL WORK FOR A MINIMUM TWO YEAR PERIOD AFTER FORMAL ACCEPTANCE OF THE WORK BY THE CITY.

COP STANDARD DETAIL	GENERAL NOTES	Charles Andrews CITY ENGINEER	REVISED: 07/16	DETAIL No. 101P

1. ALL WORK SHALL CONFORM TO MARICOPA ASSOCIATION OF GOVERNMENTS (MAG), & CITY OF PRESCOTT (COP) CONSTRUCTION STANDARDS & SPECIFICATIONS, WHICH ARE ON FILE IN THE OFFICE OF THE CITY ENGINEER.
2. ALL EXISTING FRAMES, COVERS, VALVE BOXES, & MANHOLES SHALL BE EITHER REPLACED OR ADJUSTED TO FINISH GRADE DEPENDING ON PLAN CALL OUT UPON COMPLETION OF PAVING, UTILITY, OR RELATED CONSTRUCTION.
3. ANY QUANTITIES SHOWN ON PLANS ARE NOT VERIFIED BY THE PUBLIC WORKS UTILITIES DIRECTOR.
4. ACCEPTANCE OF THE COMPLETED WORK WILL NOT BE GIVEN UNTIL 3 MIL MYLAR & CAD FORMAT DIGITAL "AS-BUILT" PLANS ON CITY OF PRESCOTT SURVEY DATUM & COORDINATES HAVE BEEN SUBMITTED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER AND APPROVED BY THE PUBLIC WORKS DEPARTMENT.
5. CITY OF PRESCOTT PUBLIC WORKS UTILITIES SHALL BE NOTIFIED A MINIMUM OF 24 HOURS PRIOR TO THE START OF ANY WORK.
6. ALL WORK & MATERIALS WHICH DO NOT CONFORM TO THE SPECIFICATIONS ARE SUBJECT TO REMOVAL & REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
7. ANY WORK PERFORMED WITHOUT THE KNOWLEDGE OF THE CITY INSPECTOR OR HIS REPRESENTATIVE IS SUBJECT TO REMOVAL & REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
8. THE CONTRACTOR SHALL PROVIDE SUFFICIENT MEN, EQUIPMENT, & MATERIAL ON THE JOB AT ALL TIMES DURING CONSTRUCTION TO COMPLY WITH SPECIFICATIONS & TO COMPLETE THE WORK.
9. CIP INSPECTION TO BE DONE BY THE CITY OF PRESCOTT PUBLIC WORKS DEPARTMENT OR THEIR REPRESENTATIVE. PRIVATE DEVELOPMENTS SHALL PROVIDE FOR INDEPENDENT 3RD PARTY INSPECTIONS.
10. CONTRACTOR TO NOTIFY PROJECT ENGINEER 72 HOURS (3 WORKING DAYS) IN ADVANCE OF CONSTRUCTION TO SCHEDULE CONSTRUCTION CONTROL STAKING.
11. THE CONTRACTOR IS TO UNCOVER ALL EXISTING LINES BEING TIED INTO AND VERIFY GRADES, MATERIAL SIZE & ELEVATIONS BEFORE COMMENCING CONSTRUCTION & ORDERING MATERIALS.
12. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UNDERGROUND PIPELINES, TELEPHONE & ELECTRICAL CONDUITS & STRUCTURES IN ADVANCE OF ANY CONSTRUCTION & OBSERVE ALL POSSIBLE PRECAUTIONS TO AVOID ANY DAMAGE TO SUCH. THE ENGINEER &/OR OWNER WILL NOT GUARANTEE ANY LOCATIONS AS SHOWN ON THESE PLANS, OR THOSE OMITTED FROM SAME.
13. CONTRACTOR SHALL NOTIFY "BLUE STAKE" AT 1-800-STAKEIT (1-800-782-5348) AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
14. CONTRACTOR SHALL VERIFY ALL QUANTITIES SHOWN & MAKE HIS BID BASED UPON THOSE VERIFICATIONS. IF ANY DISCREPANCY IN QUANTITIES IS FOUND, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AS SUCH.
15. ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY REQUIREMENTS MUST BE COMPLIED WITH.
16. ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY REQUIREMENTS SHALL APPLY WHEN MORE STRINGENT THAN THE MAG OR CITY OF PRESCOTT STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
17. ALL PLANS SIGNED BY THE CITY ARE NULL & VOID ONE YEAR FROM DATE OF SIGNATURE IF CONSTRUCTION HAS NOT STARTED AND/OR IS NOT ACTIVELY PROGRESSING.
18. PROJECT CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING TRAFFIC CONTROL PLANS WHICH SHALL BE MADE A PART OF THE PLAN REVIEW REQUEST TO THE CITY ENGINEER FOR APPROVAL.
19. ALL WATER LINES & APPURTENANCES SHALL BE PROVIDED WITH TRACE WIRE PER CITY STANDARD DETAIL. TRACE WIRE SHALL BE SUBJECT TO A TRACEABILITY TEST, EASILY ACCESSIBLE, & ANY DEFICIENCIES SHALL BE CORRECTED PRIOR TO PAVING. THE TRACE WIRE SHOULD BE TESTED AND SUBMITTED AS A PACKAGE WITH THE TESTING PACKET.
20. WATER-SEWER SEPARATION SHALL BE PURSUANT TO AAC R-18-5-502C.
21. WATER MAINS SHALL BE SUBJECT TO A PRESSURE & LEAKAGE TEST IN ACCORDANCE WITH AWWA C-600 STANDARD.
22. WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH ADEQ ENGINEERING BULLETIN NO. 8 'DISINFECTION OF WATER SYSTEMS'.
23. OPERATION OF VALVES TO BE DONE BY CITY PERSONNEL ONLY.
24. DUCTILE IRON PIPE TO BE INSTALLED PER MANUFACTURER'S REQUIREMENTS. ALL MATERIALS USED IN THE INSTALLATION OF DUCTILE IRON PIPE SHALL BE PURSUANT TO AAC R-18-4.
25. ALL MATERIALS & PRODUCTS THAT COME INTO CONTACT WITH DRINKING WATER OR DRINKING WATER TREATMENT CHEMICALS MUST COMPLY WITH NSF STANDARD 61. ANY 'OR EQUAL' SUBSTITUTION SHALL ALSO MEET NSF STANDARD 61.
26. ALL TRENCHES & BEDDING SHALL BE PER COP DETAIL 200P & TECHNICAL SPECIFICATIONS.
27. ALL MATERIALS USED IN THE INSTALLATION OF WATER MAINS SHALL BE PURSUANT TO AAC R-18-4 & SHALL BE NSF APPROVED FOR POTABLE WATER.
28. ALL REVISIONS TO ORIGINAL PLANS MUST BE APPROVED BY THE PUBLIC WORKS DIRECTOR PRIOR TO CONSTRUCTION.
29. ALL DUCTILE IRON, COPPER, & BRASS FITTINGS SHALL BE ENCASED IN POLYETHYLENE PROTECTIVE WRAPPING IN ACCORDANCE WITH MAG SECTION 610.5 UNLESS COUNTERINDICATED BY GEOTECHNICAL CORROSIVITY TESTING OF BEDDING AND SHADING MATERIALS & APPROVED BY THE PUBLIC WORKS DIRECTOR.
30. WATER LINES SHALL BE INSTALLED WITH MECHANICAL RESTRAINTS WHERE JOINT RESTRAINTS IS REQUIRED.
31. WATER SERVICE INTERRUPTION NOTICES SHALL BE GIVEN TO AFFECTED RESIDENTS BY THE CONTRACTOR AT HIS EXPENSE. ADVANCE NOTIFICATION REQUIREMENTS MUST BE APPROVED BY THE PUBLIC WORKS DIRECTOR PRIOR TO SCHEDULING A SHUTDOWN.
32. WATER MAIN TAPS, SERVICE TAPS, SHUTDOWN REQUESTS, AND METER REQUESTS MUST BE INITIATED WITH THE CITY INSPECTOR A MINIMUM OF 5 WORKING DAYS IN ADVANCE.

COP STANDARD DETAIL	WATER PLAN GENERAL NOTES	Charles Andrews CITY ENGINEER	REVISED: 07/16	DETAIL No. 103P

1. ALL WORK SHALL CONFORM TO MARICOPA ASSOCIATION OF GOVERNMENTS (MAG), & CITY OF PRESCOTT (COP) CONSTRUCTION STANDARDS & SPECIFICATIONS, WHICH ARE ON FILE IN THE OFFICE OF THE CITY ENGINEER.
2. ALL EXISTING FRAMES, COVERS, VALVE BOXES, & MANHOLES SHALL BE EITHER REPLACED OR ADJUSTED TO FINISH GRADE DEPENDING ON PLAN CALL OUT UPON COMPLETION OF PAVING, UTILITY, OR RELATED CONSTRUCTION.
3. ANY QUANTITIES SHOWN ON PLANS ARE NOT VERIFIED BY THE PUBLIC WORKS UTILITIES DIRECTOR.
4. ACCEPTANCE OF THE COMPLETED WORK WILL NOT BE GIVEN UNTIL 3 MIL MYLAR & CAD FORMAT DIGITAL "AS-BUILT" PLANS ON CITY OF PRESCOTT SURVEY DATUM & COORDINATES HAVE BEEN SUBMITTED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER AND APPROVED BY THE PUBLIC WORKS DEPARTMENT.
5. CITY OF PRESCOTT PUBLIC WORKS UTILITIES SHALL BE NOTIFIED A MINIMUM OF 24 HOURS PRIOR TO THE START OF ANY WORK.
6. ALL WORK & MATERIALS WHICH DO NOT CONFORM TO THE SPECIFICATIONS ARE SUBJECT TO REMOVAL & REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
7. ANY WORK PERFORMED WITHOUT THE KNOWLEDGE OF THE CITY INSPECTOR OR HIS REPRESENTATIVE IS SUBJECT TO REMOVAL & REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
8. THE CONTRACTOR SHALL PROVIDE SUFFICIENT MEN, EQUIPMENT, & MATERIAL ON THE JOB AT ALL TIMES DURING CONSTRUCTION TO COMPLY WITH SPECIFICATIONS & TO COMPLETE THE WORK.
9. CIP INSPECTION TO BE DONE BY THE CITY OF PRESCOTT PUBLIC WORKS DEPARTMENT OR THEIR REPRESENTATIVE. PRIVATE DEVELOPMENTS SHALL PROVIDE FOR INDEPENDENT 3RD PARTY INSPECTIONS.
10. CONTRACTOR TO NOTIFY PROJECT ENGINEER 72 HOURS (3 WORKING DAYS) IN ADVANCE OF CONSTRUCTION TO SCHEDULE CONSTRUCTION CONTROL STAKING.
11. THE CONTRACTOR IS TO UNCOVER ALL EXISTING LINES BEING TIED INTO AND VERIFY GRADES, MATERIAL SIZE & ELEVATIONS BEFORE COMMENCING CONSTRUCTION & ORDERING MATERIALS.
12. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UNDERGROUND PIPELINES, TELEPHONE & ELECTRICAL CONDUITS & STRUCTURES IN ADVANCE OF ANY CONSTRUCTION & OBSERVE ALL POSSIBLE PRECAUTIONS TO AVOID ANY DAMAGE TO SUCH. THE ENGINEER &/OR OWNER WILL NOT GUARANTEE ANY LOCATIONS AS SHOWN ON THESE PLANS, OR THOSE OMITTED FROM SAME.
13. CONTRACTOR SHALL NOTIFY "BLUE STAKE" AT 1-800-STAKEIT (1-800-782-5348) AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
14. CONTRACTOR SHALL VERIFY ALL QUANTITIES SHOWN & MAKE HIS BID BASED UPON THOSE VERIFICATIONS. IF ANY DISCREPANCY IN QUANTITIES IS FOUND, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AS SUCH.
15. ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY REQUIREMENTS MUST BE COMPLIED WITH.
16. ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY REQUIREMENTS SHALL APPLY WHEN MORE STRINGENT THAN THE MAG OR CITY OF PRESCOTT STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
17. ALL PLANS SIGNED BY THE CITY ARE NULL & VOID ONE YEAR FROM DATE OF SIGNATURE IF CONSTRUCTION HAS NOT STARTED AND/OR IS NOT ACTIVELY PROGRESSING.
18. PROJECT CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING TRAFFIC CONTROL PLANS WHICH SHALL BE MADE A PART OF THE PLAN REVIEW REQUEST TO THE CITY ENGINEER FOR APPROVAL.
19. ALL WATER LINES & APPURTENANCES SHALL BE PROVIDED WITH TRACE WIRE PER CITY STANDARD DETAIL. TRACE WIRE SHALL BE SUBJECT TO A TRACEABILITY TEST, EASILY ACCESSIBLE, & ANY DEFICIENCIES SHALL BE CORRECTED PRIOR TO PAVING. THE TRACE WIRE SHOULD BE TESTED AND SUBMITTED AS A PACKAGE WITH THE TESTING PACKET.
20. WATER-SEWER SEPARATION SHALL BE PURSUANT TO AAC R-18-5-502C.
21. WATER MAINS SHALL BE SUBJECT TO A PRESSURE & LEAKAGE TEST IN ACCORDANCE WITH AWWA C-600 STANDARD.
22. WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH ADEQ ENGINEERING BULLETIN NO. 8 'DISINFECTION OF WATER SYSTEMS'.
23. OPERATION OF VALVES TO BE DONE BY CITY PERSONNEL ONLY.
24. SEWER MANHOLES EXFILTRATION TESTS SHALL BE DONE ON 100% OF ALL MANHOLES. VACUUM TESTING IN ACCORDANCE WITH CITY STANDARDS MAY BE USED IN LIEU OF EXFILTRATION TEST. THE CONTRACTOR SHALL TEST EACH MANHOLE USING ONE OF THE FOLLOWING TEST PROTOCOLS:
    - 24A. WATERTIGHTNESS TESTING BY FILLING THE MANHOLE WITH WATER. THE CONTRACTOR SHALL ENSURE THAT THE DROP IN WATER LEVEL FOLLOWING PRESOAKING DOES NOT EXCEED 0.00034 OF THE TOTAL MANHOLE VOLUME PER HOUR.
    - 24B. NEGATIVE AIR PRESSURE TESTING USING THE "STANDARD TEST METHOD FOR CONCRETE SEWER MANHOLES BY NEGATIVE AIR PRESSURE" (VACUUM) TEST, C1244-02a1(2002), PUBLISHED BY THE AMERICAN SOCIETY FOR TESTING AND MATERIALS. THIS MATERIAL IS INCORPORATED BY REFERENCE, & DOES NOT INCLUDE ANY LATER AMENDMENTS OR EDITIONS OF THE INCORPORATED MATERIAL, & MAY BE VIEWED AT THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY, 1110 W. WASHINGTON, PHOENIX, AZ, 85007, OR OBTAINED FROM THE AMERICAN SOCIETY FOR TESTING & MATERIALS INTERNATIONAL, 100 BAR HARBOR DRIVE, WEST CONSHOHOCKEN, PA. 19428-2959.
25. SEWER LINE DEFLECTION TESTS WITH AN APPROPRIATELY SIZED MANDREL SHALL BE DONE ON 100% OF ALL NON-RIGID PIPE LINES.
26. THE CONTRACTOR SHALL PERFORM A VISUAL INSPECTION OF ALL SEWER MAINS AND LATERALS INSTALLED WITHIN THE CITY'S COLLECTION SYSTEM UTILIZING A SEWER CCTV SYSTEM AFTER COMPLETE BACKFILL AND COMPACTION BUT BEFORE INSTALLING ANY PORTION OF THE PAVEMENT STRUCTURAL SECTION. THE INSPECTION SHALL COMPLY WITH THE CITY'S VIDEO ACCEPTANCE PROCEDURE. THE CONTRACTOR SHALL PROVIDE 72 HOURS ADVANCE NOTICE FOR CITY STAFF TO BE PRESENT DURING THE VIDEO OPERATION AND SHALL PROVIDE THE CITY A VIDEO DVD AND HARD COPY OF THE INSPECTION REPORT UPON COMPLETION.
27. COVER EACH SEWER LINE WITH AT LEAST 3 FEET OF EARTH COVER MEETING THE REQUIREMENTS "TRENCH EXCAVATION, BACKFILLING, & COMPACTION" (SECTION 601) REVISED 2004, PUBLISHED BY THE MARICOPA ASSOCIATION OF GOVERNMENTS; & "RIGID PIPE BEDDING FOR SANITARY SEWERS" (WWM 104) REVISED JULY 2002, PUBLISHED BY PIMA COUNTY WASTEWATER MANAGEMENT.
28. PRESSURE SEWER MAINS AND SERVICE LATERALS (LPS) SHALL BE SUBJECT TO A PRESSURE & LEAKAGE TEST IN ACCORDANCE WITH AWWA-C-600 STANDARD. TEST PRESSURE SHALL BE A MINIMUM OF 100 PSI, OR 50 PSI OVER WORKING PRESSURE, WHICHEVER IS GREATER. TESTING SHALL BE DONE AFTER BACKFILL TO SUBGRADE.

COP STANDARD DETAIL	WASTEWATER PLAN GENERAL NOTES	Charles Andrews CITY ENGINEER	REVISED: 07/16	DETAIL No. 104P

GENERAL GRADING AND PAVING NOTES:

A. GRADING

1. Borrow material should be free of debris, organic materials, and three inch (3-inch) size particles or larger. We recommend fill material conform to the following general specification or approved equal:

U.S. STANDARD SIEVE	PERCENT PASSING
3.0-inch	100
NO. 40	40-60
NO. 200	0-30

The Plasticity Index should be between 2 and 15 unless otherwise specified in the project soils report.

2. All subgrade materials shall be scarified to a depth of eight inches (8"), the moisture content adjusted to near optimum, then compacted to 95 percent of ASTM D-698.
3. Sufficient compaction tests shall be taken to verify compliance with the project specifications.
4. Clearing and grubbing shall extend to the limits of grading and construction shall be in accordance with MAG Specifications, Section 201.
5. Trench excavations, backfilling and compaction shall conform to MAG Specifications, Section 601, Type I, unless noted otherwise.

B. PAVING

1. All aggregate base course (ABC) shall be placed in 6 to 8-inch loose lifts, the moisture content adjusted to near optimum, then compacted to 98 percent of ASTM D-698.
2. All asphaltic concrete (A.C.) shall be 19 mm as per applicable MAG Specifications. Mix design shall be submitted to the City for approval prior to start of construction.
3. A.C. compaction shall be 95 percent of ASTM D-1559, 75 blow Marshall Density test.

GENERAL CONSTRUCTION NOTES:

1. The positions of existing underground utilities as shown on the construction plans were determined from site inspection, and other "Best Available" information. The Contractor shall contact "Blue Stake" for utility location and carefully excavate (including potholing if required) to determine the true horizontal and vertical positions of utilities. The contractor is responsible for protecting existing utilities and shall notify the owner of any conflicting conditions.
2. All existing underground utilities shown are approximate and are to be verified by each Subcontractor. Owner does not accept any responsibility for the accuracy of the location of existing utilities indicated on the Drawings. Verify location of existing utilities and exercise every precaution when working on or near these areas, to avoid damage to those existing facilities. Utility lines may be encountered in excavations that were not known (or shown to exist), so caution should be taken in all excavations. Active or inactive utilities encountered shall be handled in accordance with the requirements of the utility companies.
3. Prior to bidding the work, the Contractor shall thoroughly satisfy himself as to the actual conditions and requirements of the work. No claim shall be made against the Owner or the Engineer for any alleged misunderstanding of the conditions or nature of the work.
4. Nothing contained in the construction drawings shall create, nor shall be construed to create, any contractual relationship between the Engineer and the Contractor or any Subcontractor.
5. The Engineer will not be responsible for construction means, methods, techniques, sequences or procedures or for safety precautions or programs utilized in connection with the work.
6. It shall be the responsibility of the bidder to verify all quantities, including excavation, borrow, embankment, shrink or swell, ground compaction, haul and any other items affecting his bid and to base his bid per the intent of the bid schedule. It shall be the bidder's responsibility to notify the City prior to bidding of any discrepancies.
7. Disposal and/or stockpiling of excess material shall be done in such a way that will not create a nuisance. The placing of material on private property of another requires written authorization.
8. The contractor shall verify all pipe sizes and material at every point of connection prior to ordering material. Notify the City of any discrepancy in pipe size or material.

APPROVED TRAFFIC CONTROL PLAN AND R.O.W. PERMIT MUST BE OBTAINED FROM PUBLIC WORKS PRIOR TO BEGINNING WORK IN THE R.O.W.

CITY OF PRESCOTT PUBLIC WORKS IS RESPONSIBLE FOR INSPECTION OF IMPROVEMENTS IN THE R.O.W. AND DESIGNATED PUBLIC UTILITY EASEMENTS ONLY. ALL OTHER IMPROVEMENTS (ON-SITE) SHALL BE INDEPENDENTLY INSPECTED TO THE SATISFACTION OF THE ENGINEER OF RECORD.

REVISIONS	BY

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Registered Professional Engineer (Civil) 22800 GARY R. KELLEY Date signed ARIZONA, U.S.A.

EXPIRES 06/30/21

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ARCHITECTUR

1. ALL GRADING SHALL CONFORM TO THE CURRENT CITY ADOPTED EDITION OF THE INTERNATIONAL BUILDING CODE, AND CITY OF PRESCOTT LAND DEVELOPMENT CODE (REFERENCE CITY OF PRESCOTT STANDARD SECTIONS).
2. ALL PROVISIONS OF THE PRELIMINARY SOILS REPORT PREPARED BY _____, DATED _____ SHALL BE COMPLIED WITH DURING OPERATIONS.
3. THIS PLAN IS FOR GRADING PURPOSES ONLY. APPROVAL OF THIS PLAN DOES NOT CONSTITUTE APPROVAL OF DRIVEWAY LOCATIONS OR SIZES, PARKING LOT LAYOUT, SEWER AND WATER FACILITIES, BUILDING LOCATIONS, OFF-SITE DRAINAGE FACILITIES OR OTHER ITEMS NOT RELATED DIRECTLY TO THE BASIC GRADING OPERATION.
4. CERTIFICATION FROM THE REGISTERED CIVIL ENGINEER AND SOILS/GEOLOGICAL ENGINEER STATING THAT THE ROUGH GRADING HAS BEEN COMPLETED PER THE APPROVED PLAN, AND A COMPACTION REPORT FROM THE SOILS ENGINEER ON ANY FILL AREAS THAT ARE REQUIRED SHALL BE PROVIDED PRIOR TO BUILDING PERMITS BEING ISSUED.
5. PARTIES NAMED ON ADEQ'S NOTICE OF INTENT (N.O.I.) ARE RESPONSIBLE FOR EROSION, DUST, MUD, SILT, DEBRIS, AND TEMPORARY DRAINAGE CONTROL DURING GRADING OPERATIONS AND MAY BE REQUIRED TO PROVIDE A SWPPP.
6. ANY ON-SITE RETAINING WALLS WILL REQUIRE APPROVAL AS PART OF THESE PLANS. ANY NECESSARY RETAINING WALLS ON THE PERIMETER OF THIS SITE MAY BE REQUIRED TO BE IN PLACE AND APPROVED BY THE CITY BUILDING DEPARTMENT PRIOR TO THE START OF GRADING. A SEPARATE PLAN WITH REQUIRED STRUCTURAL CALCULATIONS MAY BE REQUESTED FOR RETAINING WALLS.
7. ANY INFRASTRUCTURE CONSTRUCTED IN THE PUBLIC RIGHT OF WAY WILL REQUIRE SEPARATE PLAN APPROVAL AND INSPECTION FROM THE CITY ENGINEER.
8. ANY WALLS, FENCES, STRUCTURES AND/OR APPURTENANCES ADJACENT TO THIS PROJECT SHALL BE PROTECTED IN PLACE. IF GRADING OPERATIONS DAMAGE OR ADVERSELY AFFECT SAID ITEMS IN ANY WAY, THE CONTRACTOR AND/OR DEVELOPER IS RESPONSIBLE FOR WORKING OUT AN ACCEPTABLE SOLUTION TO THE SATISFACTION OF THE AFFECTED PROPERTY OWNER(S).
9. THE CONTRACTOR/DEVELOPER IS RESPONSIBLE FOR ENSURING THAT RETAINING WALLS DO NOT INTERFERE WITH PROVISION OF UTILITIES. WALLS MUST BE CONSTRUCTED ON SITE AND OUTSIDE OF THE RIGHT OF WAY. THIS SHALL INCLUDE THE FOOTINGS.
10. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT COMPACTION HAS BEEN ATTAINED ON THE ENTIRE GRADING SITE IN ACCORDANCE WITH THE GENERAL ENGINEERING PLAN, INCLUDING FILL AREAS OUTSIDE THE BUILDING PADS AND ON ALL FILL SLOPES, AND SHALL BE CERTIFIED BY THE SOIL'S ENGINEER.
11. CITY APPROVAL OF PLANS DOES NOT RELIEVE THE DEVELOPER FROM THE RESPONSIBILITY FOR CORRECTION OR ERROR OR OMISSION DISCOVERED DURING CONSTRUCTION. UPON REQUEST, THE REQUIRED PLAN REVISIONS SHALL BE PROMPTLY SUBMITTED TO THE CITY ENGINEER FOR APPROVAL.
12. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CALL THE CITY ENGINEER'S OFFICE AT (928) 777-1140 FOR ANY REQUIRED CIVIL INSPECTION 24 HOURS PRIOR TO PERFORMING ANY WORK. WORK PERFORMED WITHOUT CALLING FOR INSPECTION MAY BE REJECTED AND, IF REJECTED, SHALL BE REMOVED SOLELY AT THE CONTRACTOR'S EXPENSE.
13. NO GRADING SHALL COMMENCE WITHOUT OBTAINING A GRADING PERMIT AND NOTIFYING THE CITY OF PRESCOTT OR DEVELOPER'S GRADING INSPECTOR TO SCHEDULE A PREGRADING MEETING TWO WORKING DAYS PRIOR TO THE START OF WORK.
14. PRIOR TO THE START OF GRADING ALL SWPPP MEASURES SHALL BE IN PLACE, ALL DEBRIS, INCLUDING EXISTING STRUCTURES, FOOTINGS, FOUNDATIONS AND RUBBLE SHALL BE REMOVED FROM THE SITE TO THE SATISFACTION OF THE SOILS ENGINEER.
15. AFTER REMOVAL OF DEBRIS, ANY EXISTING FILL OR DISTURBED NATURAL SOILS SHALL BE EXCAVATED TO THE SATISFACTION OF THE SOILS ENGINEER.
16. THE EXPOSED SOILS SHALL THEN BE INSPECTED BY THE SOILS ENGINEER, AND ANY ADDITIONAL OVER-EXCAVATION SHALL THEN BE MADE IN ACCORDANCE WITH THE SOILS ENGINEER'S RECOMMENDATIONS AND AS CONTAINED IN THE SOIL'S REPORT.
17. THE EXPOSED SOILS SHALL THEN BE SCARIFIED TO PROVIDE A BOND WITH NEW FILL, BROUGHT TO PROPER MOISTURE CONTENT AND COMPACTED TO AT LEAST 90% OF THE MAXIMUM DENSITY, AS DETERMINED BY ASTM D1557-78 OR EQUIVALENT COMPACTION SHALL BE OBTAINED BY METHODS SPECIFIED BY THE SOILS ENGINEER. ROAD PRISM SUBGRADE SHALL BE COMPACTED TO AT LEAST 95% STANDARD OR MODIFIED PER SOILS ENGINEER'S RECOMMENDATIONS.
18. THE SOILS AND DESIGN ENGINEER OF RECORD SHALL ALSO BE RESPONSIBLE TO INSPECT, VERIFY AND REPORT THAT PROPER COMPACTION HAS BEEN OBTAINED BY EARTHWORK CONTRACTOR OR SUBCONTRACTOR AND PRIVATE UTILITY FRANCHISES CONCERNING UTILITY LINE BACKFILL, TO INCLUDE ELECTRICAL, GAS, CABLE, FIBEROPTIC AND LANDSCAPE IRRIGATION LINES. ADDITIONALLY, WATER AND SEWER LINES TO BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH GENERAL ENGINEERING REQUIREMENTS SECTION AND DETAIL.
19. AN AS-GRADED GRADING PLAN AND THE CERTIFICATION OF COMPLIANCE FORMS FOR SAID GRADING PLAN WITH THE PROPER STAMPS AND SIGNATURES ARE TO BE SUBMITTED TO THE CITY ENGINEER PRIOR TO RELEASE OF GRADING BOND AND PRIOR TO FINAL GRADING INSPECTION. BUILDING PAD CERTIFICATION SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT WHEN REQUESTED.
20. NO FILL SHALL BE PLACED UNTIL STRIPPING OF VEGETATION, REMOVAL OF UNSUITABLE SOILS, AND INSTALLATION OF SUBDRAINS (IF ANY) HAVE BEEN INSPECTED AND APPROVED BY THE SOILS ENGINEER.
21. ENGINEER MUST SET GRADE STAKES FOR ALL DRAINAGE DEVICES AND OBTAIN INSPECTION BEFORE POURING.
22. GRADING SHALL NOT BE STARTED WITHOUT FIRST NOTIFYING CITY PUBLIC WORKS INSPECTION DEPARTMENT. A PRE-GRADING MEETING ON THE SITE IS REQUIRED BEFORE BEGINNING GRADING ACTIVITIES BY THE FOLLOWING PEOPLE PRESENT: OWNER, GRADING CONTRACTOR, DESIGN CIVIL ENGINEER, SOIL ENGINEER/GEOLOGIST, PUBLIC WORKS INSPECTOR, AND WHEN REQUIRED, THE ARCHAEOLOGIST AND PALEONTOLOGIST. THE REQUIRED INSPECTIONS FOR GRADING WILL BE EXPLAINED AT THE PRE-CONSTRUCTION MEETING.
23. ALL EXISTING FILLS SHALL BE APPROVED AND CERTIFIED BY THE SOILS ENGINEER OR REMOVED PRIOR TO PLACING ADDITIONAL FILLS.
24. ALL TRENCH BACKFILLS SHALL BE TESTED AND APPROVED BY THE SOIL ENGINEER.
25. THE COMPACTION REPORT AND APPROVAL FROM THE SOIL ENGINEER SHALL INDICATE THE TYPE OF FIELD TESTING PERFORMED. EACH TEST SHALL BE IDENTIFIED WITH THE METHOD OF OBTAINING THE IN-PLACE DENSITY, WHETHER SAND CONE OR NUCLEAR GAUGE, AND SHALL BE SO NOTED FOR EACH TEST.
26. EXPORT SOIL MUST BE TRANSPORTED TO A LEGAL DUMP OR TO A PERMITTED SITE SHOWN CLEARLY ON APPROVED PLANS.
27. ALL EXISTING DRAINAGE COURSES THROUGH THIS SITE SHALL REMAIN OPEN UNTIL FACILITIES TO HANDLE STORM WATER ARE APPROVED AND FUNCTIONAL; HOWEVER, IN ANY CASE, THE PERMITTEE SHALL BE HELD LIABLE FOR ANY DAMAGE DUE TO OBSTRUCTING NATURAL DRAINAGE PATTERNS.

COP STANDARD DETAIL	GRADING AND DRAINAGE NOTES	Charles Andrews CITY ENGINEER	REVISED: 07/16	DETAIL No. 105P-1

1. A COPY OF THE APPROVED GRADING AND DRAINAGE PLAN FOR THIS PROJECT AND EROSION AND SEDIMENT CONTROL (ESC) PLAN OR STORM WATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE MAINTAINED ON THE SITE AND AVAILABLE FOR REVIEW. THOSE ELEMENTS OF THE GRADING AND DRAINAGE PLAN PERTINENT TO OR REFERENCED ON THE SWPPP SHALL BE CONSIDERED A PART OF THE SWPPP.
2. THE ESC/SWPPP AND RELATED RECORDS MUST BE MADE AVAILABLE UPON REQUEST TO ADEQ AND THE CITY OF PRESCOTT.
3. THE IMPLEMENTATION OF THESE PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE FACILITIES IS THE RESPONSIBILITY OF THE PERMITTEE/CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED AND A NOTICE OF TERMINATION HAS BEEN SUBMITTED.
4. THE SCHEMATIC EROSION CONTROL MEASURES SHOWN ON THE PLANS ARE A MINIMUM. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MEANS TO PROTECT EXISTING FACILITIES AND ADJACENT PROPERTIES FROM NOISE, DUST, AND STORM WATER RUNOFF THROUGHOUT CONSTRUCTION OF THE PROJECT AND BUILDINGS ON LOTS, AND SHALL CONDUCT HIS OPERATIONS IN SUCH A MANNER THAT STORM WATER WILL BE CONTAINED ON SITE OR CHANNELED INTO A STORM DRAIN SYSTEM, PROVIDED THAT IT IS FREE FROM POLLUTANTS AND DEBRIS.
5. CONTRACTOR SHALL PERMANENTLY STABILIZE ALL DISTURBED SLOPES AS STATED ON APPROVED CONSTRUCTION PLANS. ALL EROSION CONTROL STRUCTURES SHALL REMAIN IN PLACE UNTIL EXPOSED SLOPES HAVE BEEN PERMANENTLY STABILIZED.
6. CONTRACTOR SHALL TAKE MEASURES TO PREVENT OR MINIMIZE THE GENERATION, EMISSION AND/OR TRANSPORT OF FUGITIVE DUST FROM CONSTRUCTION ACTIVITIES.
7. THIS PLAN SHALL BE IN EFFECT UNTIL ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED, TRANSFERRED TO NEW OWNERSHIP, OR DEVELOPED UNDER FUTURE PLANS WITH A NEW NOTICE OF INTENT (NOI), SWPPP, AND PERMIT. ONCE THE CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED AND THE SITE HAS MET THE FINAL STABILIZATION REQUIREMENTS OF THE PERMIT, THE AUTHORIZED SITE REPRESENTATIVE MAY FILE A NOTICE OR TERMINATION (NOT) WITH ADEQ, WITH A COPY SUBMITTED TO THE CITY OF PRESCOTT ENGINEERING DIVISION TO TERMINATE COVERAGE UNDER THE PERMIT.
8. A CONCRETE WASHOUT SHALL BE INSTALLED FOR ALL PROJECTS THAT PROPOSE CONCRETE TO BE MIXED ON SITE OR BE DELIVERED FROM A BATCH PLANT. THE CONCRETE WASHOUT SHALL BE LOCATED A MINIMUM OF FIFTY (50) FEET FROM ANY DRAINAGE INFRASTRUCTURE OR NATURAL DRAINAGE FEATURES OR WATER BODIES AND INCORPORATE AN IMPERMEABLE LINER TO CONTAIN THE REQUIRED VOLUME. ALL DRIED CONCRETE WASTE SHALL BE BROKEN INTO MANAGEABLE PIECES AND DISPOSED OF OFF-SITE AT AN APPROVED FACILITY.

COP STANDARD DETAIL	EROSION AND SEDIMENTATION CONTROL NOTES	Charles Andrews CITY ENGINEER	REVISED: 07/16	DETAIL No. 105P-2

EROSION CONTROL/SWPPP GENERAL NOTES

1. The Notice of Intent (NOI) shall be completed and submitted to the Arizona Department of Environmental Quality (ADEQ) prior to any construction activity (including clearing & grubbing and grading).
2. The prime contractor shall perform, at a minimum, a visual inspection of the construction site once every seven days and within 24 hours of rainfall greater than or equal to a half an inch (1/2–inch). The operator shall prepare a report documenting his/her findings on the conditions of the SWPPP controls and note any erosion problem areas. The operator's report is to be maintained on site by the operator. Facilities shall be maintained as necessary to ensure their continued functioning. In addition, all temporary siltation controls shall be maintained in a satisfactory condition until such time that construction is completed, permanent drainage facilities are operational, and the potential for erosion has passed as determined by the City Engineer or his designee.
3. The facilities shown on this plan must be constructed in conjunction with all clearing and grading activities in such a manner as to insure that sediment–laden water does not enter the drainage system or violate applicable water standards. Additionally, they must be installed and in operation prior to any grading or land clearing. Wherever possible, natural vegetation should be retained and maintained for silt and erosion control.
4. The general contractor to whom the "at–risk"/final grading permit will be issued must be included on the approved NOI issued by ADEQ.
5. The owner (operator)/contractor of the site must also maintain records with the following information:
   - –The dates when major grading activities occur in a particular area;
   - –The dates when construction activities cease in an area, temporarily or permanently; and
   - –The dates when an area is stabilized, temporarily or permanently; and
   - –The dates when any maintenance/replacement or removal of required BMP's.
6. Construction sites are dynamic in nature. The site operator is required to maintain full compliance with the general construction permit, as issued by ADEQ, to maintain an effective SWPPP. As such, this plan must be updated to accurately reflect site features and operations which may become evident during construction, and/or during or after rainfall events. The plan must also be amended if it is determined by the Design Engineer, or the City Engineer as not effective at minimizing pollutant discharges from the site.
7. Contractor shall hydro–seed all exposed slopes employing best management practices and/or recommended soil preparation to promote and sustain growth. All erosion control structures shall remain in place until exposed slopes have been permanently stabilized. Contractor shall be responsible for watering and maintaining hydro–seed until stabilized. Any deviation shall be approved by the engineer.
8. All site revegetation shall be completed within 90 days of completion of grading work, or prior to release of subdivision guarantee or issuance of Certificate of Occupancy, which ever occurs first. Permanent bank/slope stabilization shall be certified by the Project Engineer or Landscape Architect documenting the bank/slope stabilization was completed according to plan prior to final subdivision release or certificate of occupancy.
9. Contractor shall protect all permanent and existing storm water facilities from sediment/silt during construction.
10. Silt fencing and/or other sediment control (i.e. straw baffles, hay bales, etc.) shall be used at the toe of any erodible slope, following contours of slope (do not install silt fence across any drainage course).
11. Contractor to coordinate erosion control/SWPPP implementation with the City's environmental coordinator.

Oct 30, 2018 - 3:46pm

REVISIONS	BY

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Registered Professional Engineer (Civil) 22866 GARY R. KELLEY Date signed ARIZONA, U.S.A.

EXPIRES 06/30/21

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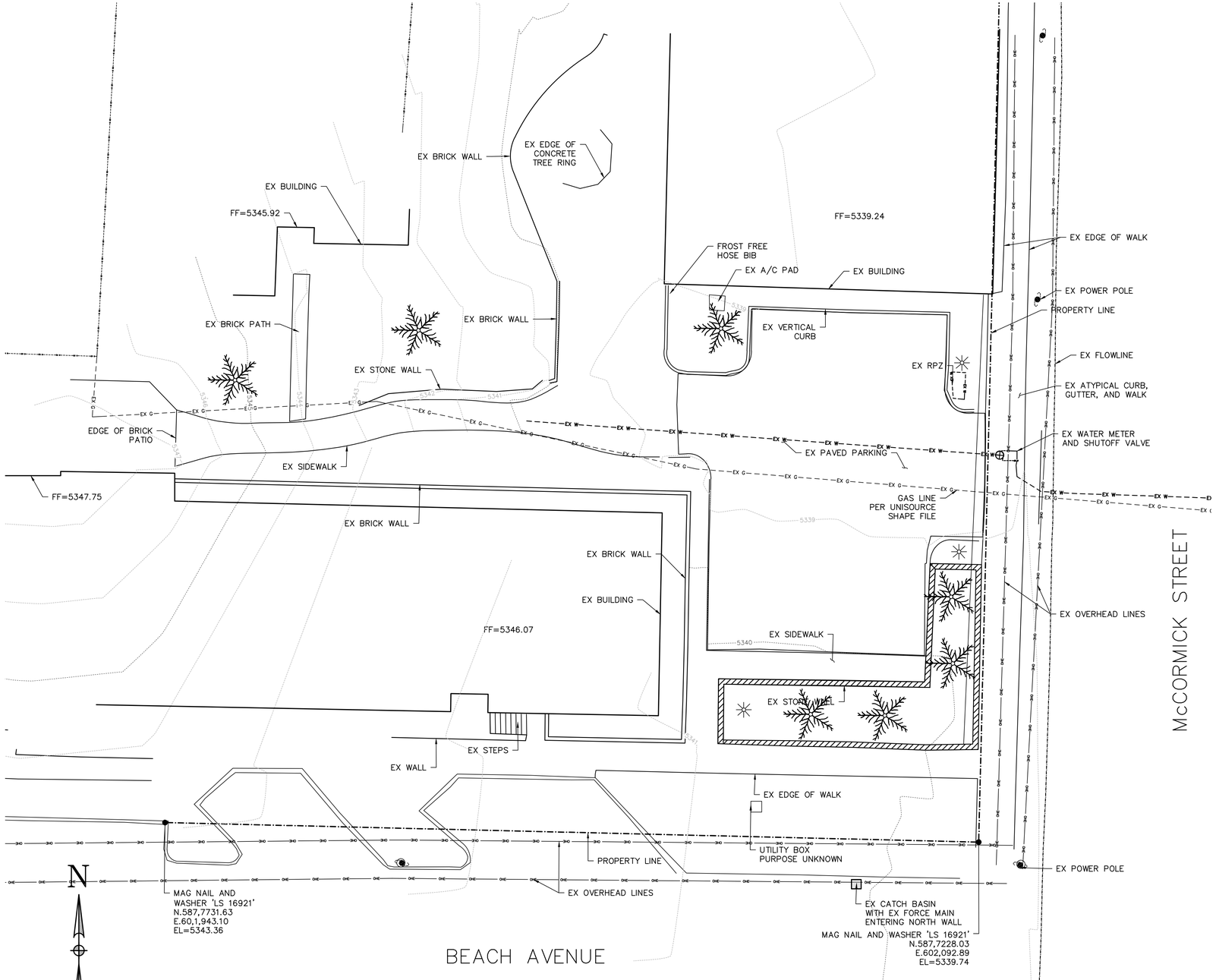
DRAWING: Civil Plans GENERAL NOTES

PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ. 86301

APN: 109-02-035

DRAWN BY: FWA
CHECKED BY: GRK
DATE: October 30, 2018
JOB NO.: KWE #17090
SHEET: 3 of 7

C-002



SITE SPECIFIC TOPOGRAPHIC SURVEY

APN. 109-02-035

415 W GURLEY ST, PRESCOTT, AZ.
LOCATED IN SECTION 4,
TOWNSHIP 13 NORTH, RANGE 2 WEST,
GILA AND SALT RIVER MERIDIAN,
YAVAPAI COUNTY, ARIZONA

LEGEND:

△	TEMPORARY BENCH MARK, AS NOTED.
(---)	DENOTES RECORD DIMENSION
50.3 ×	AS-BUILT SPOT ELEVATION BY THIS SURVEY (4950.3)
---------4950---------	EXISTING GRADE CONTOUR BY THIS SURVEY. (NAVD-88)
APN.	ASSESSOR'S PARCEL NUMBER
BK.	BOOK
EL.	ELEVATION
ELEV.	ELEVATION
EX.	EXISTING
INST.	INSTRUMENT NUMBER
INV.	INVERT
L.S.	LAND SURVEYS
M.P.	MAPS AND PLATS
PG.	PAGE
POR.	PORTION
P.U.E.	PUBLIC UTILITY EASEMENT
R.O.W.	RIGHT-OF-WAY
TYP.	TYPICAL
Y.C.R.O.	YAVAPAI COUNTY RECORDER OFFICE
	EX. CLEAN OUT
	EX. FIRE HYDRANT
	EX. GAS METER
HC.	EX. HANDICAP PARKING STALL
	EX. LIGHT POLE BASE
	EX. MANHOLE
	EX. SIGN
UP	EX. UTILITY POLE
	EX. WATER VALVE
	LINE OF SUBJECT PARCEL
	LINE OF RIGHT-OF-WAY
	LINE OF EASEMENT
	FLOW LINE
	EDGE OF PAVEMENT
OHE	OVERHEAD UTILITIES
	EX. TREE

NOTE:

THIS MAP DOES NOT REPRESENT A LAND BOUNDARY SURVEY. LOT LINES AND EASEMENTS AS SHOWN HEREON ARE BASED ON MONUMENTS FOUND IN THE FIELD AND THE MAP OF THE CITY OF PRESCOTT RECORDED IN BOOK 4 OF MAPS AND PLATS, AT PAGE 22, RECORDS OF YAVAPAI COUNTY.

EXISTING UTILITIES ON OR SERVING THE SUBJECT PARCEL MAY NOT BE SHOWN IN THEIR ENTIRETY. PHYSICALLY APPARENT ABOVE GROUND UTILITY APPURTENANCES HAVE BEEN LOCATED. NO UTILITY EXCAVATION OR UTILITY LOCATE MARKINGS WERE ENCOUNTERED IN THE FIELD.

THE CONTOUR INTVERAL DEPICTED HERON IS 1'.

VERTICAL DATUM:

THE EXISTING GRADE CONTOURS AND SPOT GRADES ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD-88) BASED ON THE CITY OF PRESCOTT SURVEY DATUM WHICH IS ON FILE WITH THE CITY OF PRESCOTT PUBLIC WORKS DEPARTMENT.

SEE THE TEMPORARY BENCH MARKS SHOWN HEREON.

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ARCHITECTURE & PLANNING

DRAWING: Civil Plans TOPOGRAPHICAL SURVEY

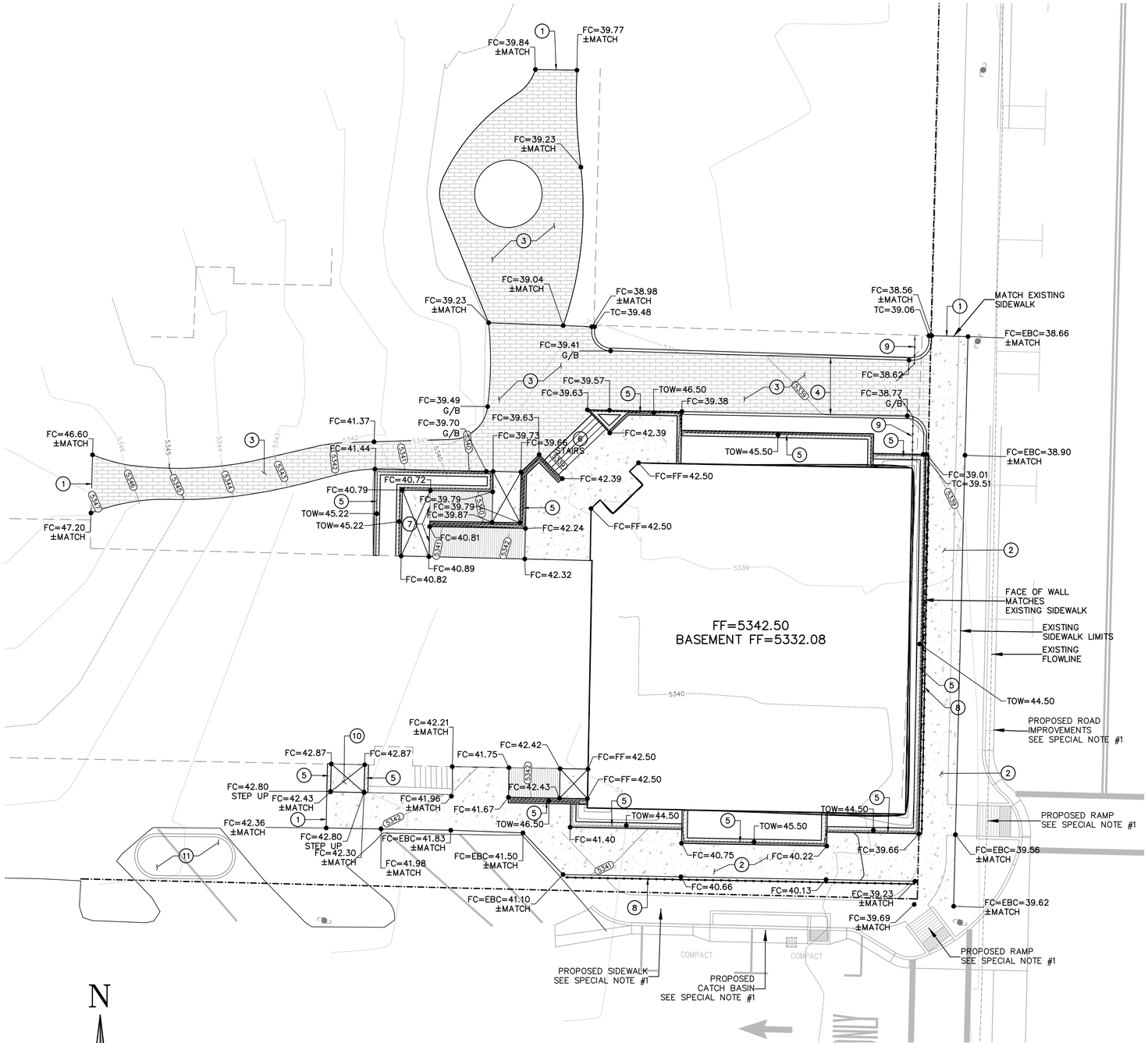
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APN: 109-02-035

DRAWN BY: FWA
CHECKED BY: GRK
DATE: October 30, 2018
JOB NO.: KWE #17090
SHEET: 4 of 7

C-101

Oct 30, 2018 - 3:47pm



GRADING AND PAVING KEY

1. SAWCUT TO NEAT EDGE AT NEAREST CONCRETE JOINT TO REMOVE EXISTING PCC, GRADE TO NEW DESIGN ELEVATIONS AND REPLACE PCC OR PAVERS PER ARCHITECTURAL REQUIREMENTS.
2. CONSTRUCT CONCRETE SIDEWALK PER QC SD 230Q AND ARCHITECTURAL REQUIREMENTS (WIDTH PER ARCHITECTURAL SITE PLAN).
3. CONSTRUCT CONCRETE PAVERS SIDEWALK PER ARCHITECTURAL REQUIREMENTS (WIDTH PER ARCHITECTURAL SITE PLAN).
4. FURNISH AND INSTALL SINGLE CURB PER MAG SD 222, TYPE A.
5. FURNISH AND INSTALL RETAINING WALL OR BUILDING RESTRAINING WALL PER ARCHITECTURAL AND STRUCTURAL PLANS.
6. FURNISH AND INSTALL STAIRS PER ARCHITECTURAL PLANS. CONFIRM TOP OF WALL HEIGHT WITH ARCHITECT.
7. CONSTRUCT ADA COMPLIANT CURB RAMP (MAXIMUM RAMP SLOPE IS 1V:12H).
8. FURNISH AND INSTALL STRAW WATTLE PROTECTION ALONG EAST AND SOUTH BOUNDARY PER PLAN OR AS DIRECTED BY THE CITY INSPECTOR.
9. OWNER TO CONSTRUCT GATE AND FENCE.
10. CONSTRUCT 5'X5' SES LANDING 6-INCHES ABOVE EXISTING SIDEWALK ELEVATIONS.
11. CONSTRUCT TEMPORARY CONCRETE WASH OUT AREA WITH 6" MIN DEPRESSION TO PREVENT WASH OUT WATER FROM LEAVING THE SITE. WASH OUT AREA TO COMPLY WITH AAC R18-9-B01.L.A.1.12

SPECIAL NOTES

1. REFER TO THE CITY OF PRESCOTT'S IMPROVEMENT PROJECTS ALONG MCCORMICK STREET AND BEACH AVENUE FOR PROPOSED SIDEWALK, ROAD, AND DRAINAGE IMPROVEMENTS. THESE ARE CITY PUBLIC IMPROVEMENTS NOT IN THIS CONTRACT.

LEGEND:

EC	EXISTING CONCRETE ELEVATION
EFL	EXISTING FLOW LINE ELEVATION
EG	EXISTING GROUND ELEVATION
EP	EXISTING PAVEMENT
ETC	EXISTING TOP OF CURB
FC	NEW FINISHED CONCRETE ELEVATION
FF	NEW FINISHED FLOOR ELEVATION
FG	NEW FINISHED GRADE ELEVATION
FL	NEW FLOWLINE ELEVATION (AT FINISHED CONCRETE)
G/B	GRADE BREAK
P	PAVEMENT OR SURFACE PER ARCH. PLANS
TC	NEW TOP OF CURB ELEVATION
TOW	NEW TOP OF WALL ELEVATION
SD	STORM DRAIN

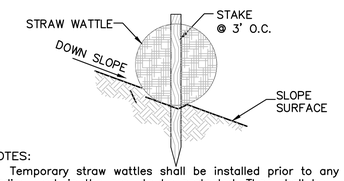
APPROXIMATE RAW EARTHWORK QUANTITIES

EXCAVATION = ±1064 CY

EMBANKMENT = ±174 CY

SPECIAL NOTE: IT SHALL BE THE RESPONSIBILITY OF THE BIDDER TO VERIFY ALL QUANTITIES, INCLUDING EXCAVATION, BORROW, EMBANKMENT, SHRINK OR SWELL, GROUND COMPACTION, HAUL AND ANY OTHER ITEMS AFFECTING HIS BID AND TO BASE HIS BID PER THE INTENT OF THE PLANS. IT SHALL BE THE BIDDER'S RESPONSIBILITY TO NOTIFY THE ENGINEER PRIOR TO BIDDING OF ANY DISCREPANCIES. THESE QUANTITIES DO NOT INCLUDE ANY OVER-EXCAVATION THAT MAY BE REQUIRED PER THE SOILS REPORT.

APPROXIMATE DISTURBED AREA = ±0.21 ACRES



NOTES:

1. Temporary straw wattles shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.
2. Anchors shall be rebar, steel pickets or 2" x 2" stakes, and shall be long enough to extend at least 1.5 to 2.0 feet into the ground when the top is flush.

8 STRAW WATTLE BARRIER
N.T.S

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ARCHITECTURE & PLANNING

DRAWING: Civil Plans GRADING AND DRAINAGE PLANS

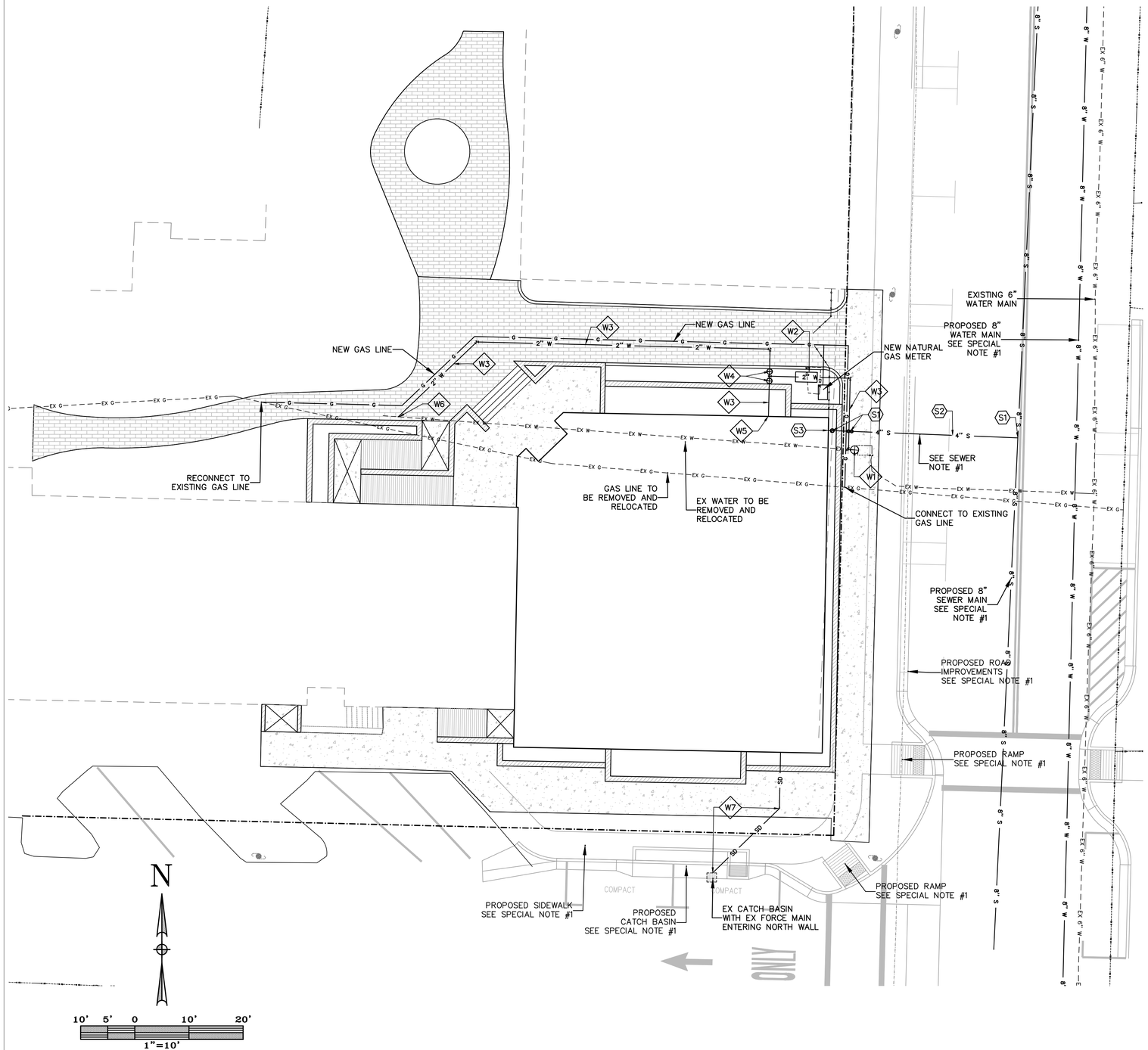
PROJECT: Sharlot Hall Education Center Addition
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APN: 109-02-035

DRAWN BY: FWA
CHECKED BY: GRK
DATE: October 30, 2018
JOB NO.: KWE #17090
SHEET: 5 of 7

C-102

Oct 30, 2018 - 3:47pm



WATER KEY

- W1 CONNECT TO EXISTING 2" WATER METER ALONG MCCORMICK STREET.
- W2 RELOCATE AND INSTALL COMPLETE 2" BACKFLOW PREVENTION ASSEMBLY (BPA) ASSEMBLY PER QC SD 324Q–1 AND INTERNATIONAL BUILDING CODE (IBC). NO INTERCONNECTION ALLOWED BETWEEN WATER METER AND BPA ASSEMBLY. REFER TO ARCHITECT'S DEMOLITION SITE PLAN FOR EXISTING RPBPO.
- W3 FURNISH AND INSTALL 2" PRIVATE YARD LINE PER INTERNATIONAL PLUMBING CODE. TRENCH EXCAVATION AND BACKFILL PER QC SD 200Q–1.
- W4 FURNISH AND INSTALL NEW 2"X2"X2" TEE WITH TWO NEW 2" WATER VALVES, BOXES, AND COVERS.
- W5 EXACT LOCATION OF BUILDING CONNECTION PER PLUMBING PLANS.
- W6 CONNECT TO EXISTING 2" WATER LINE. LOCATION TO BE FIELD VERIFIED.
- W7 FURNISH AND INSTALL 2" SUMP PUMP FORCE MAIN (VERIFY SIZE WITH PLUMBING PLANS) FROM BASEMENT AND CONNECT TO EXISTING CATCH BASIN ALONG BEACH AVENUE AS SHOWN. SEE PLUMBING PLANS FOR SUMP PUMP FORCE MAIN SPECIFICATIONS.

SEWER KEY

- S1 CONNECT TO EXISTING SEWER MAIN. INSTALL NEW 4–INCH SERVICE PER COP SD 440P–1 AND 440P–3 WITH DOUBLE BARREL TWO–WAY CLEANOUT INSIDE RIGHT–OF–WAY AND BACKWATER VALVE INSIDE PROPERTY LINE (BETWEEN THE PROPOSED BUILDING AND PLANTER WALL.) FIELD VERIFY EXACT PIPE SIZE, INVERT, LOCATION, MATERIAL AND CONDITION PRIOR TO CONSTRUCTION. TRENCH EXCAVATION AND BACKFILL PER QC SD 200Q–1.
- S2 FURNISH AND INSTALL 4–INCH SDR–35 PVC BUILDING SEWER SERVICE PIPE, TRENCH EXCAVATION AND BACKFILL PER MAG SPECIFICATION 601 AND QC SD 200Q–1 UTILITY TRENCH DETAIL.
- S3 EXACT LOCATION OF BUILDING CONNECTION PER PLUMBING PLANS.

SEWER NOTE:

1. DEPENDENT ON THE CITY OF PRESCOTT'S IMPROVEMENT PROJECT COMPLETION, THE PROPOSED SEWER SERVICE CONNECTION TO THE EXISTING SEWER MAIN MAY NEED TO BE COORDINATED WITH SUCH IMPROVEMENTS. SEE SPECIAL NOTE #1.

SPECIAL NOTES

1. REFER TO THE CITY OF PRESCOTT'S IMPROVEMENT PROJECTS ALONG MCCORMICK STREET AND BEACH AVENUE FOR PROPOSED SIDEWALK, ROAD, AND DRAINAGE IMPROVEMENTS. THESE ARE CITY PUBLIC IMPROVEMENTS NOT IN THIS CONTRACT.

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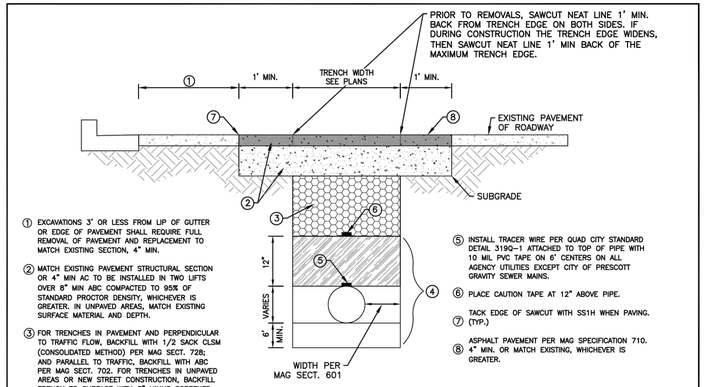
DRAWING: Civil Plans
WATER AND SEWER PLANS

PROJECT: Sharlot Hall Education Center Addition
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APN: 109-02-035

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SHEET 6 of 7

C-103



① EXCAVATIONS 3' OR LESS FROM LIP OF GUTTER OR EDGE OF PAVEMENT SHALL REQUIRE FULL REMOVAL OF PAVEMENT AND REPLACEMENT TO MATCH EXISTING SECTION, 4" MIN.

② MATCH EXISTING PAVEMENT STRUCTURAL SECTION OR 4" MIN AC TO BE INSTALLED IN TWO LIFTS OVER 8" MIN ABC COMPACTED TO 95% OF STANDARD PROCTOR DENSITY, WHICHEVER IS GREATER, IN UNPAVED AREAS, MATCH EXISTING SURFACE MATERIAL AND DEPTH.

③ FOR TRENCHES IN PAVEMENT AND PERPENDICULAR TO TRAFFIC FLOW, BACKFILL WITH 1/2 SACK CLSM (CONSOLIDATED METHOD) PER MAG SECT. 728; AND PARALLEL TO TRAFFIC, BACKFILL WITH ABC PER MAG SECT. 702. FOR TRENCHES IN UNPAVED AREAS OR NEW STREET CONSTRUCTION, BACKFILL TRENCH TO SURFACE WITH 3" MINUS SCREENED NATIVE MATERIAL.

④ GRANULAR BEDDING/SHADING MATERIAL SHALL BE PER MAG SECT. 601 WITH 100% PASSING 1" SIEVE, MAXIMUM 10 P.I., THE COMBINATION OF PERCENT MATERIAL PASSING THROUGH #200 PLUS P.I. SHALL NOT EXCEED 22.

⑤ INSTALL TRACER WIRE PER QUAD CITY STANDARD DETAIL 3190-1 ATTACHED TO TOP OF PIPE WITH 10 MIL PVC TAPE ON 6' CENTERS ON ALL AGENCY UTILITIES EXCEPT CITY OF PRESCOTT GRAVITY SEWER MAINS.

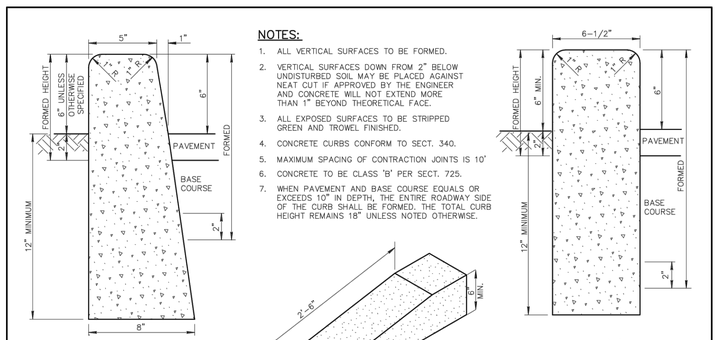
⑥ PLACE CAUTION TAPE AT 12" ABOVE PIPE.

⑦ TACK EDGE OF SAWCUT WITH SS1H WHEN PAVING. (TYP.)

⑧ ASPHALT PAVEMENT PER MAG SPECIFICATION 710. 4" MIN. OR MATCH EXISTING, WHICHEVER IS GREATER.

NOTE: BEDDING, SHADING, AND BACKFILL SHALL BE COMPACTED TO 95% PROCTOR DENSITY PER ASTM D-698. MIN. 1 TEST PER LIFT PER 200'. EXPOSED SUBGRADE TO BE COMPACTED TO 95% PROCTOR DENSITY PER ASTM D-698. PAVED SURFACE TO BE COMPACTED TO 95% MARSHALL DENSITY PER ASTM D-6927-15.

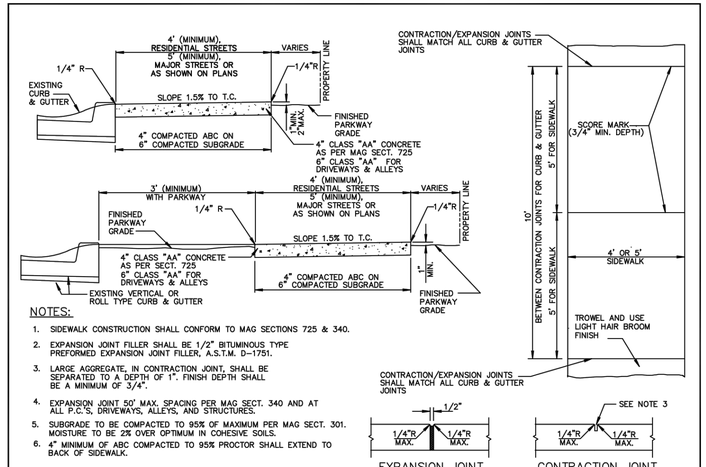
QUAD CITY STANDARD DETAIL	TRENCH BACKFILL AND SURFACE REPLACEMENT	REVISED: 07/16	DETAIL No. 200Q-1



NOTES:

1. ALL VERTICAL SURFACES TO BE FORMED.
2. VERTICAL SURFACES DOWN FROM 2" BELOW UNDISTURBED SOIL MAY BE PLACED AGAINST NEAT CUT IF APPROVED BY THE ENGINEER AND CONCRETE WILL NOT EXTEND MORE THAN 1" BEYOND THEORETICAL FACE.
3. ALL EXPOSED SURFACES TO BE STRIPPED GREEN AND TROWEL FINISHED.
4. CONCRETE CURBS CONFORM TO SECT. 340.
5. MAXIMUM SPACING OF CONTRACTION JOINTS IS 10'
6. CONCRETE TO BE CLASS 'B' PER SECT. 725.
7. WHEN PAVEMENT AND BASE COURSE EQUALS OR EXCEEDS 10" IN DEPTH, THE ENTIRE ROADWAY SIDE OF THE CURB SHALL BE FORMED. THE TOTAL CURB HEIGHT REMAINS 18" UNLESS NOTED OTHERWISE.

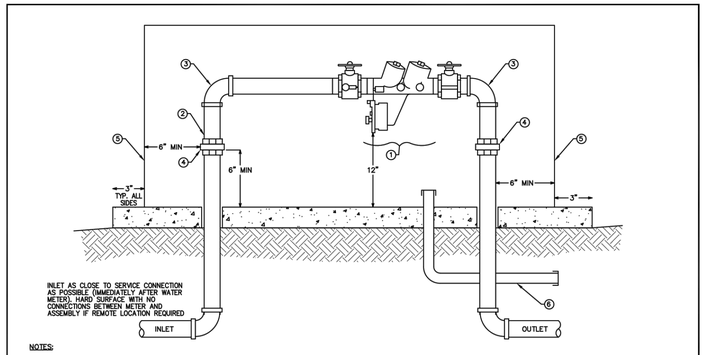
DETAIL NO. 222	MARICOPA ASSOCIATION of GOVERNMENTS STANDARD DETAIL ENGLISH	SINGLE CURB – TYPES A, B AND TERMINATION	REVISED 01-01-2008	DETAIL NO. 222



NOTES:

1. SIDEWALK CONSTRUCTION SHALL CONFORM TO MAG SECTIONS 725 & 340.
2. EXPANSION JOINT FILLER SHALL BE 1/2" BITUMINOUS TYPE PREFORMED EXPANSION JOINT FILLER, A.S.T.M. D-1751.
3. LARGE AGGREGATE, IN CONTRACTION JOINT, SHALL BE SEPARATED TO A DEPTH OF 1". FINISH DEPTH SHALL BE A MINIMUM OF 3/4".
4. EXPANSION JOINT 50' MAX. SPACING PER MAG SECT. 340 AND AT ALL P.C.'S, DRIVEWAYS, ALLEYS, AND STRUCTURES.
5. SUBGRADE TO BE COMPACTED TO 95% OF MAXIMUM PER MAG SECT. 301. MOISTURE TO BE 2% OVER OPTIMUM IN COHESIVE SOILS.
6. 4" MINIMUM OF ABC COMPACTED TO 95% PROCTOR SHALL EXTEND TO BACK OF SIDEWALK.

QUAD CITY STANDARD DETAIL	SIDEWALKS	REVISED: 07/16	DETAIL No. 230Q



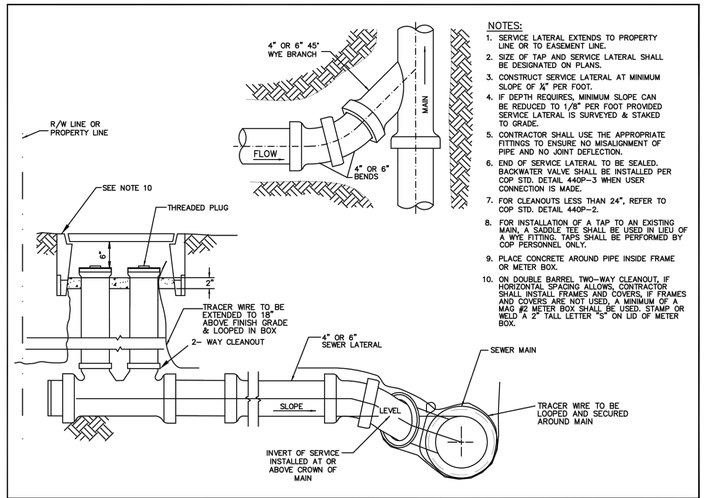
NOTES:

1. ALL PIPE/FITTINGS TO BE TYPE "K" COPPER.
2. BACKFLOW PREVENTION ASSEMBLY MUST BE LEVEL AND INSTALLED A MINIMUM OF 16" FROM ASSEMBLY BODY TO FINAL GRADE.
3. ALL TEST COCKS (4 REQUIRED) SHALL BE FITTED WITH BRASS PLUGS INSTALLED WITH TEFLON TAPE.
4. COMPRESSION TYPE FITTINGS ARE NOT ALLOWED.
5. INSTALL THE BACKFLOW PREVENTION ASSEMBLY IMMEDIATELY DOWNSTREAM OF THE AGENCY WATER METER.
6. CALL FOR UNDERGROUND INSPECTION BEFORE BACKFILLING TRENCH.
7. A COPPER/BRASS UNION MUST BE INSTALLED IN THE MIDDLE OF BOTH RISERS.
8. ASSEMBLY SHALL BE APPROVED BY USC FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH.

LIST OF MATERIALS:

① REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLY, BALL VALVES INCLUDED.
② DOUBLE CHECK VALVE BACKFLOW PREVENTION ASSEMBLY USE SHALL BE REVIEWED AND APPROVED BY AGENCY.
③ PIPE, TYPE "K" HARD COPPER, ¾" THRU 3".
④ 90° ELL, COPPER, ¾" THRU 3"
⑤ PIPE UNION, BRASS OR COPPER.
⑥ INSTALL 4" CONCRETE PAD, ENCLOSURE, AND HARDWARE. ENCLOSURE SHALL BE AN ASSE 1060 CLASS 1 APPROVED.
⑦ ELECTRICAL CONDUIT FOR HEAT TRACE.

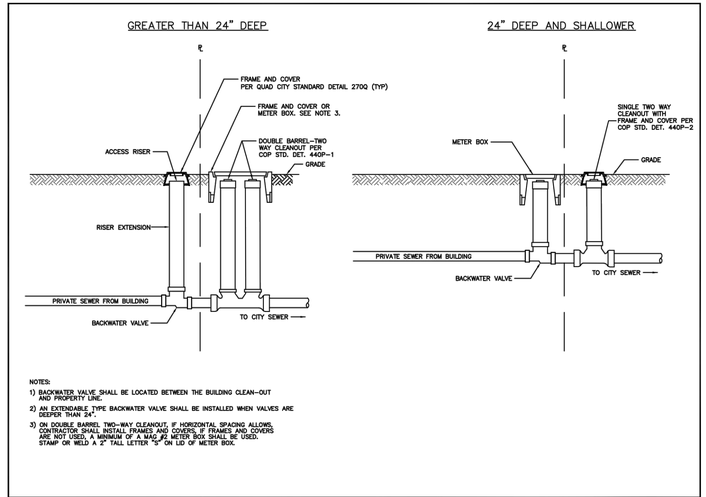
QUAD CITY STANDARD DETAIL	BACKFLOW PREVENTION ASSEMBLY INSTALLATION 3" AND UNDER	REVISED: 07/16	DETAIL No. 324Q-1



NOTES:

1. SERVICE LATERAL EXTENDS TO PROPERTY LINE OR TO EASEMENT LINE.
2. SIZE OF TAP AND SERVICE LATERAL SHALL BE DESIGNATED ON PLANS.
3. CONSTRUCT SERVICE LATERAL AT MINIMUM SLOPE OF ¼" PER FOOT.
4. IF DEPTH REQUIRES, MINIMUM SLOPE CAN BE REDUCED TO 1/8" PER FOOT PROVIDED SERVICE LATERAL IS SURVEYED & STAKED TO GRADE.
5. CONTRACTOR SHALL USE THE APPROPRIATE FITTINGS TO ENSURE NO MISALIGNMENT OF PIPE AND NO JOINT DEFLECTION.
6. END OF SERVICE LATERAL TO BE SEALED. BACKWATER VALVE SHALL BE INSTALLED PER COP STD. DETAIL 440P-3 WHEN USER CONNECTION IS MADE.
7. FOR CLEANOUTS LESS THAN 24", REFER TO COP STD. DETAIL 440P-2.
8. FOR INSTALLATION OF A TAP TO AN EXISTING MAIN, A SADDLE TEE SHALL BE USED IN LIEU OF A WYE FITTING. TAPS SHALL BE PERFORMED BY COP PERSONNEL ONLY.
9. PLACE CONCRETE AROUND PIPE INSIDE FRAME OR METER BOX.
10. ON DOUBLE BARREL TWO-WAY CLEANOUT, IF HORIZONTAL SPACING ALLOWS, CONTRACTOR SHALL INSTALL FRAMES AND COVERS, IF FRAMES AND COVERS ARE NOT USED, A MINIMUM OF A MAG #2 METER BOX SHALL BE USED. STAMP OR WELD A 2" TALL LETTER "S" ON LID OF METER BOX.

COP STANDARD DETAIL	SEWER SERVICE LATERAL GREATER THAN 2 FEET DEEP	Charles Andrews CITY ENGINEER	REVISED: 07/16	DETAIL No. 440P-1



NOTES:

1) BACKWATER VALVE SHALL BE LOCATED BETWEEN THE BUILDING CLEAN-OUT AND PROPERTY LINE.
2) AN EXTENDABLE TYPE BACKWATER VALVE SHALL BE INSTALLED WHEN VALVES ARE DEEPER THAN 24".
3) ON DOUBLE BARREL TWO-WAY CLEANOUT, IF HORIZONTAL SPACING ALLOWS, CONTRACTOR SHALL INSTALL FRAMES AND COVERS, IF FRAMES AND COVERS ARE NOT USED, A MINIMUM OF A MAG #2 METER BOX SHALL BE USED. STAMP OR WELD A 2" TALL LETTER "S" ON LID OF METER BOX.

COP STANDARD DETAIL	BACKWATER VALVE	Charles Andrews CITY ENGINEER	REVISED: 07/16	DETAIL No. 440P-3

SPECIAL NOTES:

THE STANDARD DETAILS AND SPECIFICATIONS SHOWN HEREON HAVE BEEN FORMALLY ADOPTED BY THE CITY OF PRESCOTT. COMPLIANCE WITH THESE STANDARD DETAILS AND SPECIFICATIONS IS REQUIRED IN CONSTRUCTING ALL APPLICABLE PUBLIC IMPROVEMENTS. KELLEY/WISE ENGINEERING IS NOT RESPONSIBLE FOR THE CONTENT OF THE CITY OF PRESCOTT STANDARD DETAILS AND SPECIFICATIONS.

ALL CONCRETE USED IN CONSTRUCTION OF THE STANDARD DETAIL CONCRETE IMPROVEMENTS AS SHOWN HEREON SHALL BE MINIMUM CLASS AA PER COP SPECIFICATIONS SECTION 725, 4000 PSI CONCRETE WITH ENTRAINED AIR, WATER/CEMENT RATIO OF 0.45 AND 18% FLY ASH.

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Registered Professional Engineer (Civil) 22800 GARY R. KELLEY Date signed ARIZONA, U.S.A.

EXPIRES 06/30/21

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DRAWING: Civil Plans STANDARD DETAILS

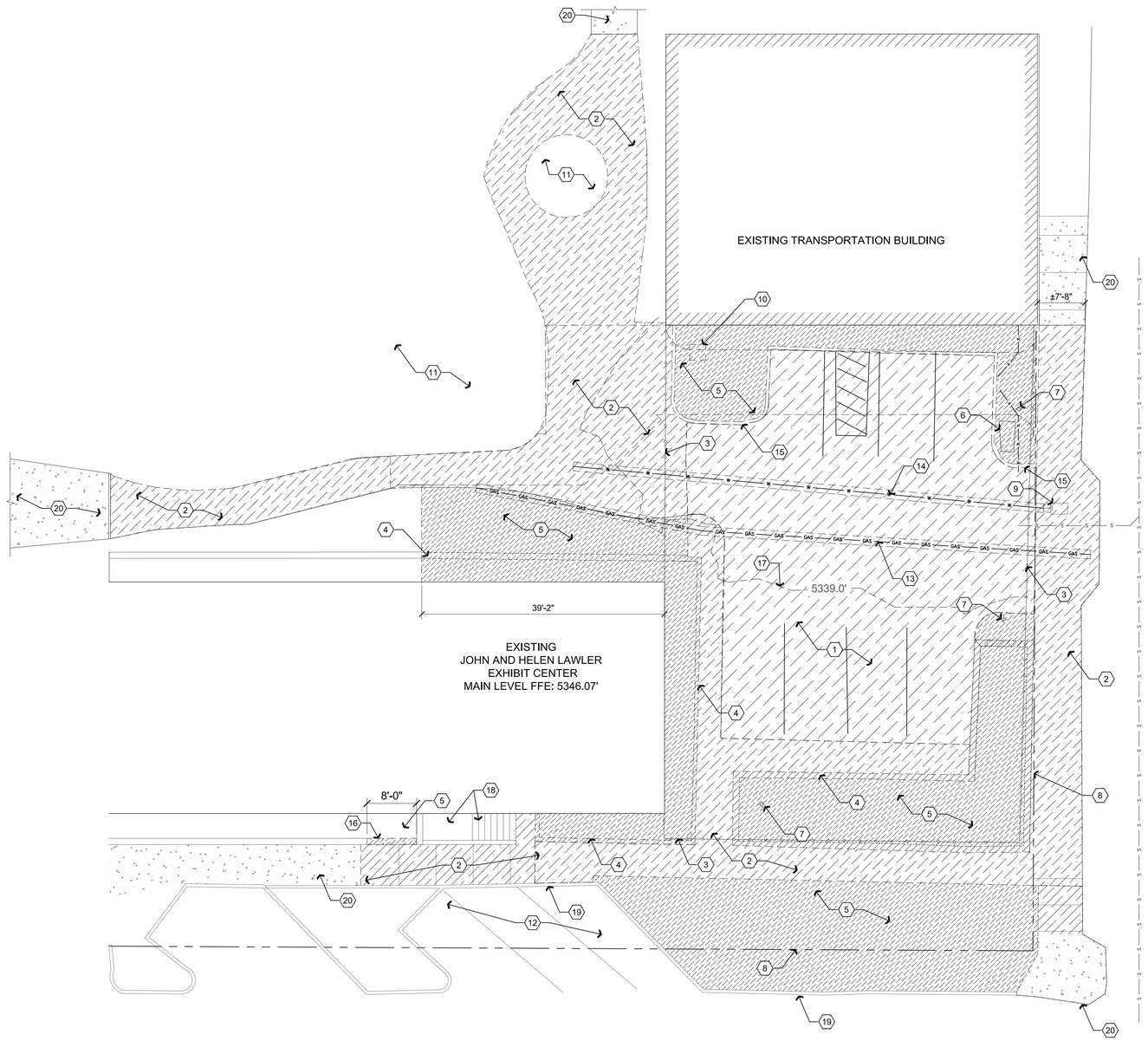
PROJECT: Sharlot Hall Education Center Addition 415 W. Gurley St. Prescott, AZ. 86301

APN: 109-02-035

DRAWN BY: FWA
CHECKED BY: GRK
DATE: October 30, 2018
JOB NO: KWE #17090
SHEET: 7 of 7

C-501

Oct 30, 2018 - 3:47pm



Descriptive Keynotes

1. REMOVE EXISTING ASPHALTIC PAVEMENT.
2. REMOVE PORTION OF EXISTING SIDEWALK.
3. REMOVE EXISTING FENCING AND GATE.
4. REMOVE EXISTING BRICK WALL PLANTER.
5. REMOVE EXISTING LANDSCAPING / TREE.
6. REMOVE AND RELOCATE REDUCED PRESSURE ZONE BACKFLOW PREVENTOR.
7. RELOCATE EXISTING LIGHT, REFER TO ARCHITECTURAL / PARTIAL UTILITIES SITE PLAN FOR NEW LOCATION.
8. EXISTING PROPERTY LINE.
9. EXISTING WATER METER TO REMAIN.
10. RELOCATE EXISTING HVAC CONDENSER, REFER TO ARCHITECTURAL SITE PLAN.
11. EXISTING LANDSCAPING TO REMAIN.
12. EXISTING PARKING TO REMAIN.
13. ABANDON AND REROUTE PORTION OF NATURAL GAS LINE, REFER TO CIVIL PLANS.
14. ABANDON AND REROUTE WATER LINE, REFER TO CIVIL PLANS.
15. REMOVE EXISTING CURB.
16. REMOVE PORTION OF BRICK WALL PLANTER FOR NEW SERVICE ENTRANCE SECTION LOCATION.
17. EXISTING CONTOUR.
18. EXISTING CONCRETE STAIRS AND BRICK WALL ENCLOSURE TO REMAIN.
19. CONCRETE CURB AN GUTTER TO REMAIN. IF REMOVAL IS NECESSARY, CONTRACTOR SHALL REPLACE AS REQUIRED TO MATCH EXISTING.
20. EXISTING CONCRETE SIDEWALK TO REMAIN.

A1 Architectural Demolition Site Plan

Scale: 1"=10'-0"

North

Nov 01, 2018 - 11:18am

REVISIONS	BY

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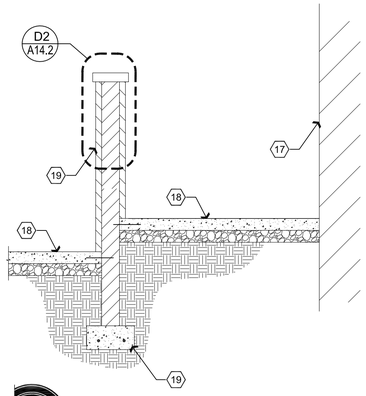
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ARCHITECTURE & PLANNING

DRAWING: Architectural Demolition Site Plan

PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ, 86301

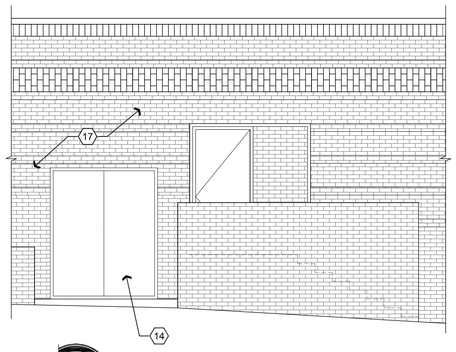
APN: 109-02-035

DRAWN BY	L.O.
CHECKED BY	W.A.K.
DATE	Oct 30th, 2018
JOB NO.	710
SHEET	A1.0



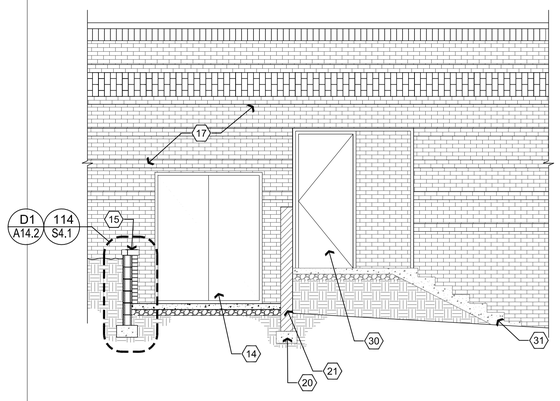
A3 Wall

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



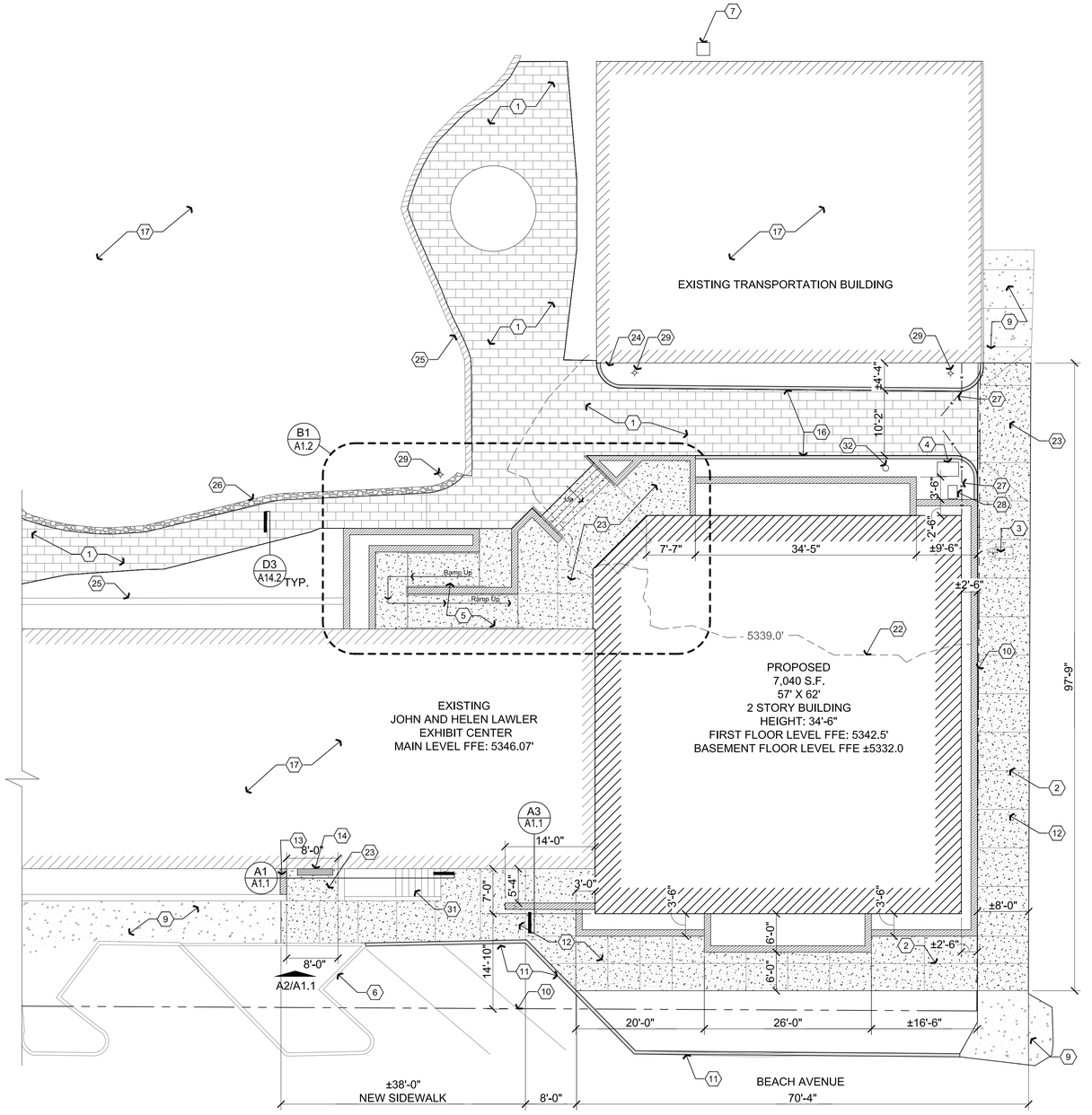
A2 Elevation at SES

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



A1 Section at SES

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



B1 Architectural Site Plan

Scale: 1"=10'-0"

North

Descriptive Keynotes

1. PROVIDE CONCRETE PAVERS OVER SAND OVER ABC, REFER TO MATERIALS SCHEDULE. PAV-1
2. TYPICALLY INDICATES TOOLED CONCRETE CONTROL JOINT.
3. EXISTING WATER METER AND SHUT OFF VALVE.
4. RELOCATED REDUCED PRESSURE BACKFLOW PREVENTION DEVICE AND HOT BOX, REFER TO CIVIL PLANS.
5. PROVIDE HANDICAP ACCESSIBLE RAMP. REFER TO CIVIL PLANS AND SHEET A1.2
6. EXISTING CURB TO REMAIN.
7. RELOCATED HVAC CONDENSER.
8. NOT USED.
9. EXISTING CONCRETE SIDEWALK.
10. PROPERTY LINE.
11. REPAIR / REPLACE EXISTING CONCRETE CURB AND GUTTER TO MATCH EXISTING AS REQUIRED DUE TO CONSTRUCTION DAMAGE.
12. CONCRETE SIDEWALK, REFER TO CIVIL PLANS.
13. PROVIDE NEW PORTION OF PLANTER TO MATCH EXISTING.
14. PROVIDE SERVICE ENTRANCE SECTION. REFER TO ELECTRICAL PLANS.
15. MATCH HEIGHT OF EXISTING ADJACENT WALL.
16. PROVIDE CONCRETE CURB, REFER TO CIVIL PLANS.
17. EXISTING BUILDING.
18. REFER TO CIVIL PLANS FOR CONCRETE ELEVATION.
19. REFER TO STRUCTURAL PLANS FOR WALL DETAILS AND FOOTING.
20. EXISTING FOOTING.
21. EXISTING BRICK WALL.
22. EXISTING CONTOUR.
23. PROVIDE 4" CONCRETE SIDEWALK W/ #3 @ 2'-0" O.C. OVER 4"COMPACTED A.B.C.
24. EXISTING YARD HYDRANT TO REMAIN.
25. EXISTING BLOCK WALL TO REMAIN.
26. EXISTING ROCK WALL TO REMAIN.
27. FENCING / GATE BY OWNER.
28. NATURAL GAS METER.
29. RELOCATED LIGHT STANDARD, VERIFY LOCATION WITH OWNER / ARCHITECT.
30. EXISTING DOOR.
31. EXISTING STAIRS.
32. DOMESTIC WATER SHUT OFF VALVE.

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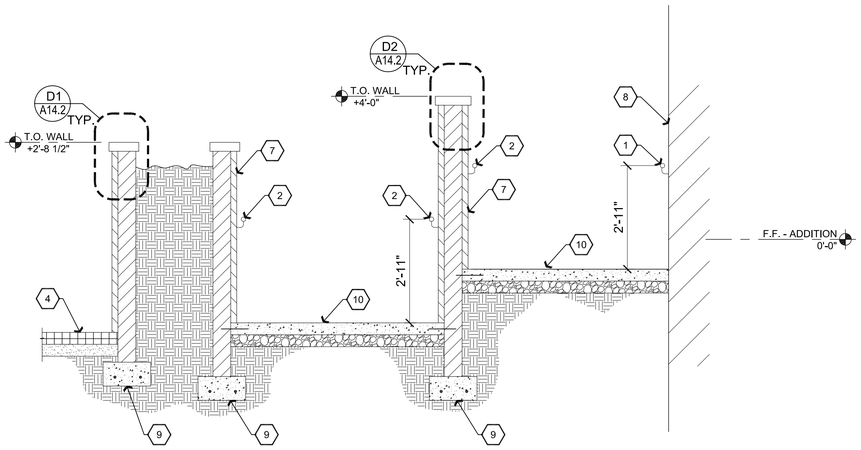
DRAWING: Architectural Site Plan

PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ, 86301

APN: 109-02-035

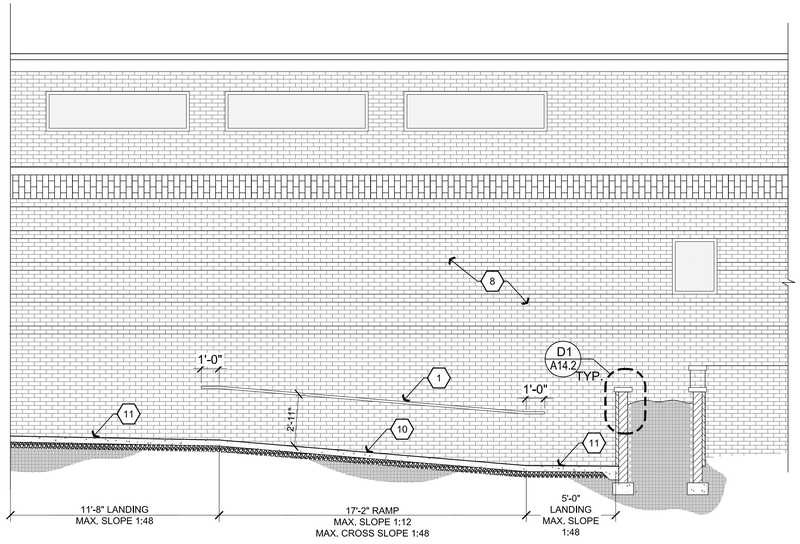
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CHECKED BY	W.A.K.
DATE	Oct 30th, 2018
JOB NO.	710
SHEET	A1.1

Nov 01, 2018 - 11:18am



A2 Ramp Section

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



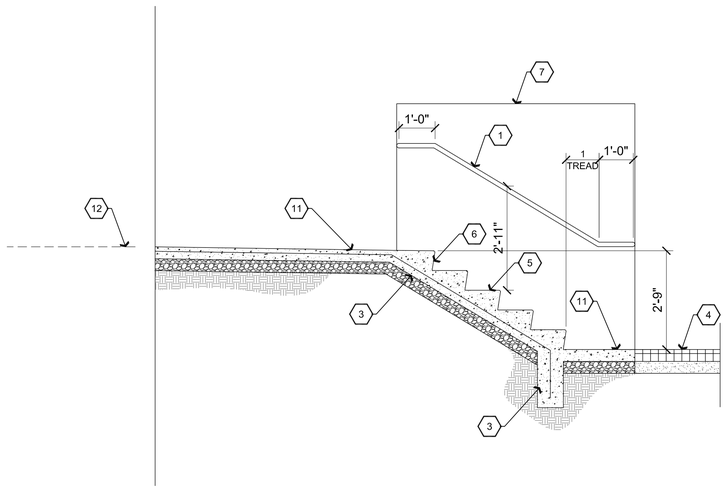
B2 Ramp Section

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

North

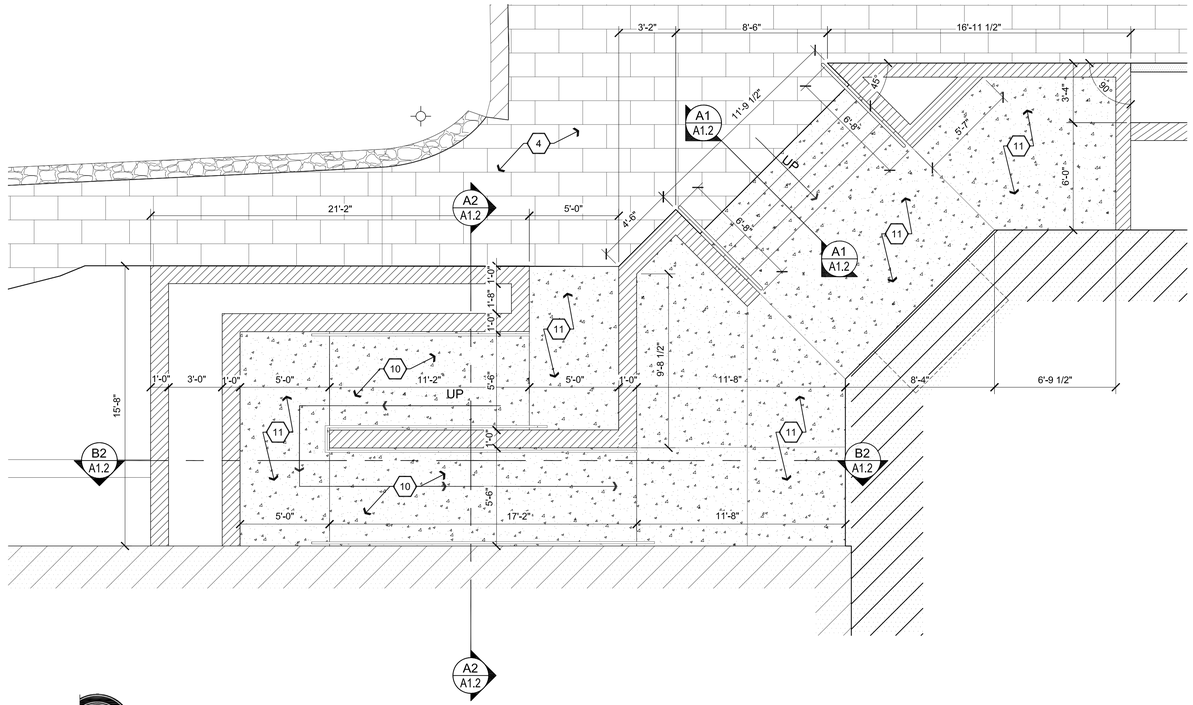
Descriptive Keynotes

1. PROVIDE 1 1/2" DIAMETER SCHEDULE 40 PAINTED METAL HANDRAIL, ATTACHED TO EXISTING BUILDING EXTERIOR WALL. PT-5
2. PROVIDE 1 1/2" DIAMETER SCHEDULE 40 PAINTED METAL HANDRAIL, ATTACHED TO NEW MASONRY WALL. PT-5
3. REFER TO STRUCTURAL PLANS FOR STAIR CONSTRUCTION.
4. PROVIDE CONCRETE PAVERS OVER SAND OVER ABC, REFER TO D3/A14.2. PAV-1
5. PROVIDE (4) 12" TREADS.
6. PROVIDE (5) ±6 1/2" RISERS EQUAL HEIGHT.
7. PROVIDE 6" CMU WALL WITH BRICK VENEER ON EXPOSED SIDES, REFER TO CIVIL PLANS FOR TOP OF WALL ELEVATION. BV-1
8. EXISTING BUILDING.
9. PROVIDE FOOTING, REFER TO STRUCTURAL PLANS.
10. PROVIDE 4" THICK CONCRETE ADA COMPLIANT RAMP W/ #3 @ 2'-0" O.C. EACH WAY OVER 4" COMPACTED A.B.C.
11. PROVIDE 4" THICK CONCRETE SIDEWALK W/ #3 @ 2'-0" O.C. EACH WAY OVER 4" COMPACTED A.B.C. PROVIDE 8" MINIMUM TURNDOWN ON SIDES.
12. FINISH FLOOR OF PROPOSED BUILDING ADDITION.



A1 Stair Section

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



B1 Enlarged Partial Site Plan

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

North

Nov 01, 2018 - 12:59pm

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DRAWING: Enlarged Partial Site Plan

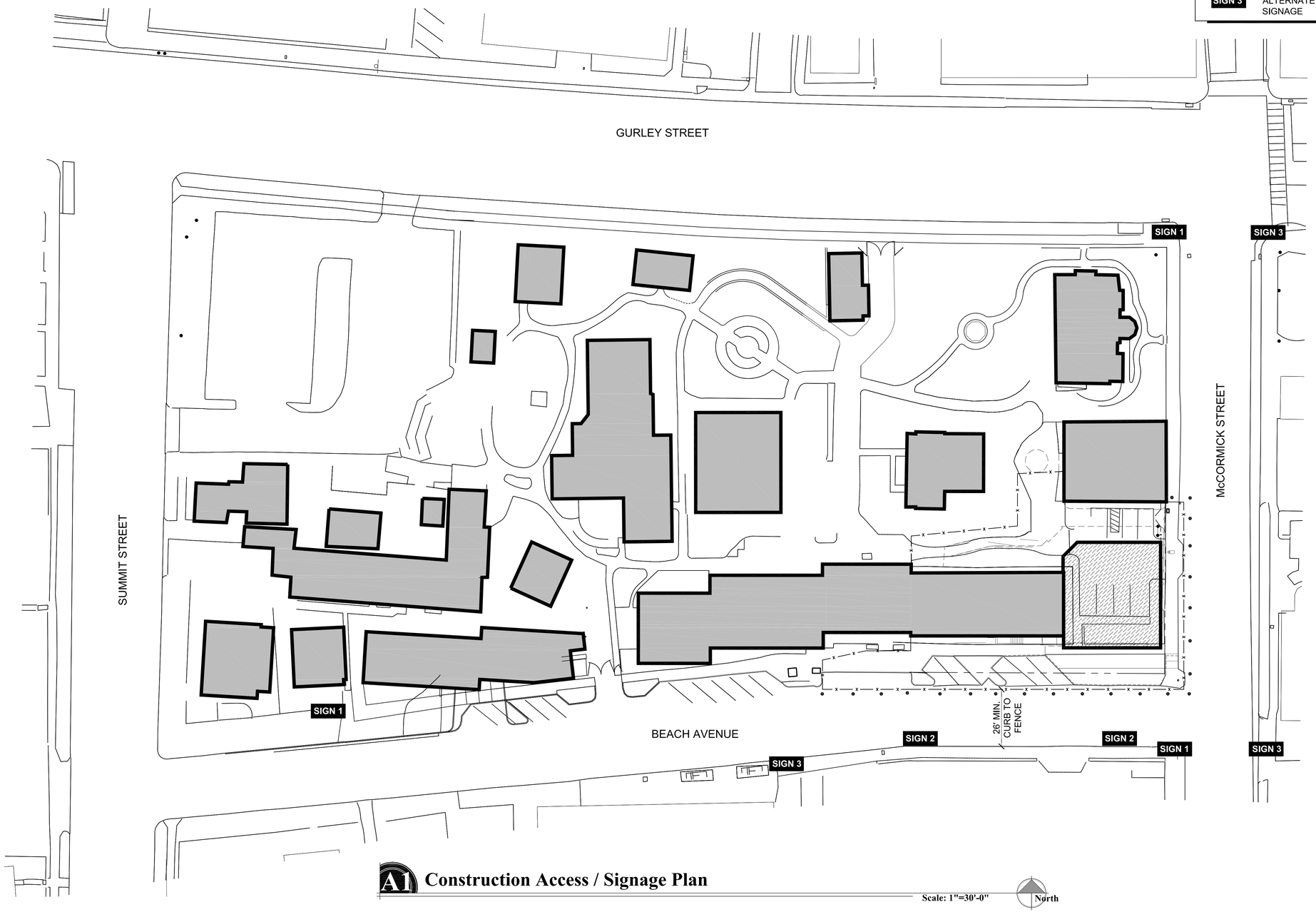
PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ. 86301

APN: 109-02-035

DRAWN BY	L.O.
CHECKED BY	W.A.K.
DATE	Oct 30th, 2018
JOB NO.	710
SHEET	A1.2

Legend

- PROPOSED BUILDING ADDITION
- EXISTING SHARLOT HALL BUILDING
- TEMPORARY CONSTRUCTION FENCE
- LIGHTED TRAFFIC BARRICADES
- SIGN 1 — SIDEWALK CLOSED DETOUR SIGNAGE
- SIGN 2 — NO PARKING SIGNAGE
- SIGN 3 — ALTERNATE ROUTE SIDEWALK DETOUR SIGNAGE



A1 Construction Access / Signage Plan

Scale: 1"=30'-0"

North

Nov 01, 2018 - 1:04pm

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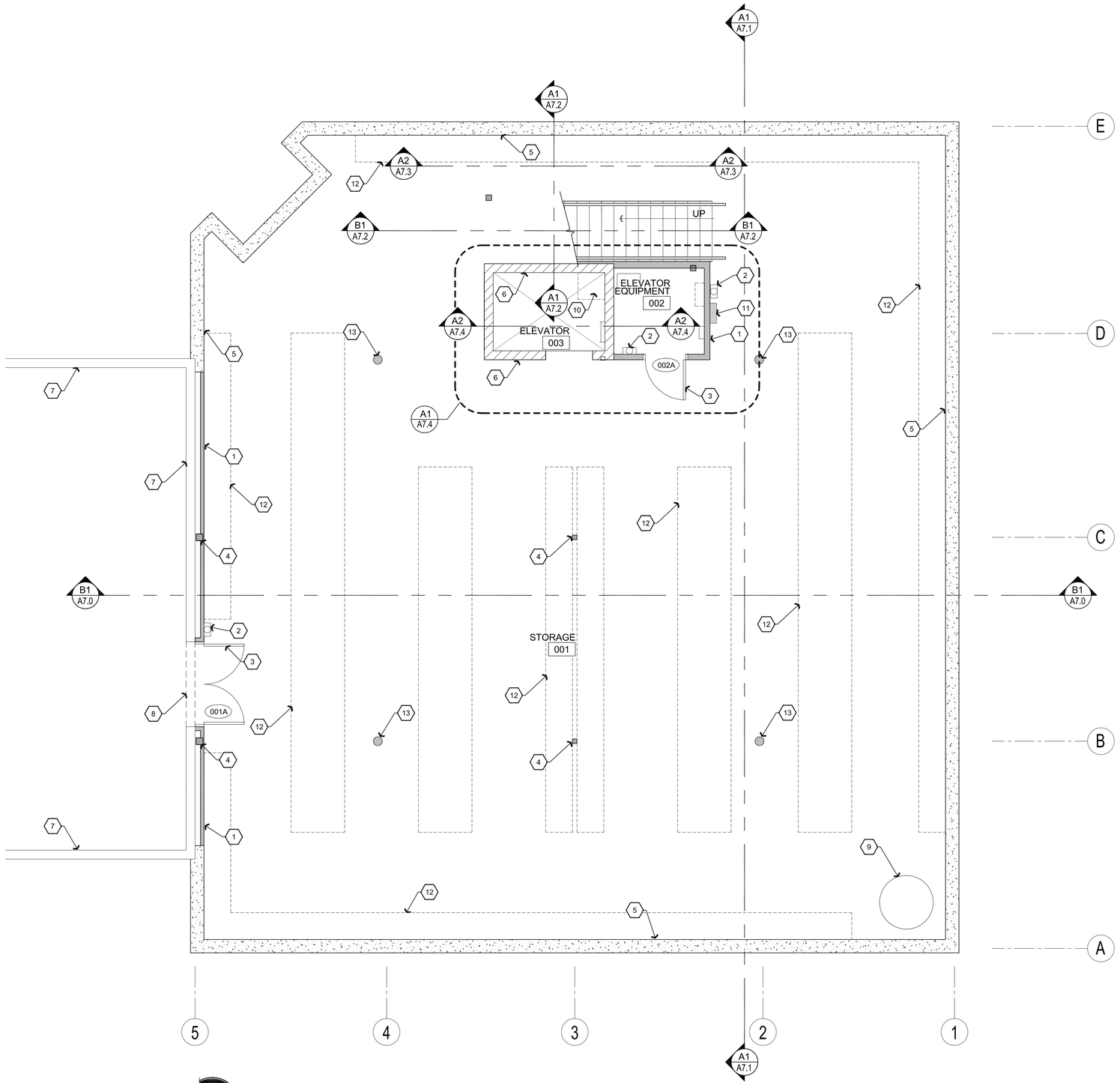
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DRAWING: Construction Access / Signage Plan

PROJECT: Sharlot Hall Education Center Addition
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APN: 109-02-035

DRAWN BY	L.O.
CHECKED BY	W.A.K.
DATE	Oct 30th, 2018
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A1 Basement Reference Floor Plan

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

North

Descriptive Keynotes

1. PROVIDE INTERIOR WALL, REFER TO WALL TYPES PLAN FOR TYPE OF CONSTRUCTION.
2. PROVIDE TYPE 2A10BC FIRE EXTINGUISHER WITH SURFACE MOUNTED BRACKET, REFER TO MATERIALS SCHEDULE. FE-1 FEB-1
3. PROVIDE DOOR, REFER TO DOOR SCHEDULE, TYPICAL.
4. PROVIDE STEEL COLUMN, REFER TO STRUCTURAL PLANS.
5. PROVIDE CONCRETE RETAINING WALL, REFER TO STRUCTURAL PLANS.
6. PROVIDE CMU WALL, REFER TO STRUCTURAL PLANS.
7. EXISTING CONCRETE BASEMENT WALL.
8. PROVIDE OPENING INTO EXISTING CONCRETE BASEMENT WALL FOR INSTALLATION OF NEW DOOR, REFER TO STRUCTURAL PLANS.
9. PROVIDE SUMP PUMP AND TANK, REFER TO CIVIL AND PLUMBING PLANS. PROVIDE 6" CONCRETE SLAB OVER 4" COMPACTED ABC FOR TANK TO BE ATTACHED TO.
10. ELEVATOR SUMP PIT.
11. PROVIDE ELECTRICAL PANEL, REFER TO ELECTRICAL PLANS.
12. LOCATION OF SHELVING, SUPPLIED AND INSTALLED BY OWNER.
13. PROVIDE FLOOR DRAIN, REFER TO PLUMBING PLANS.

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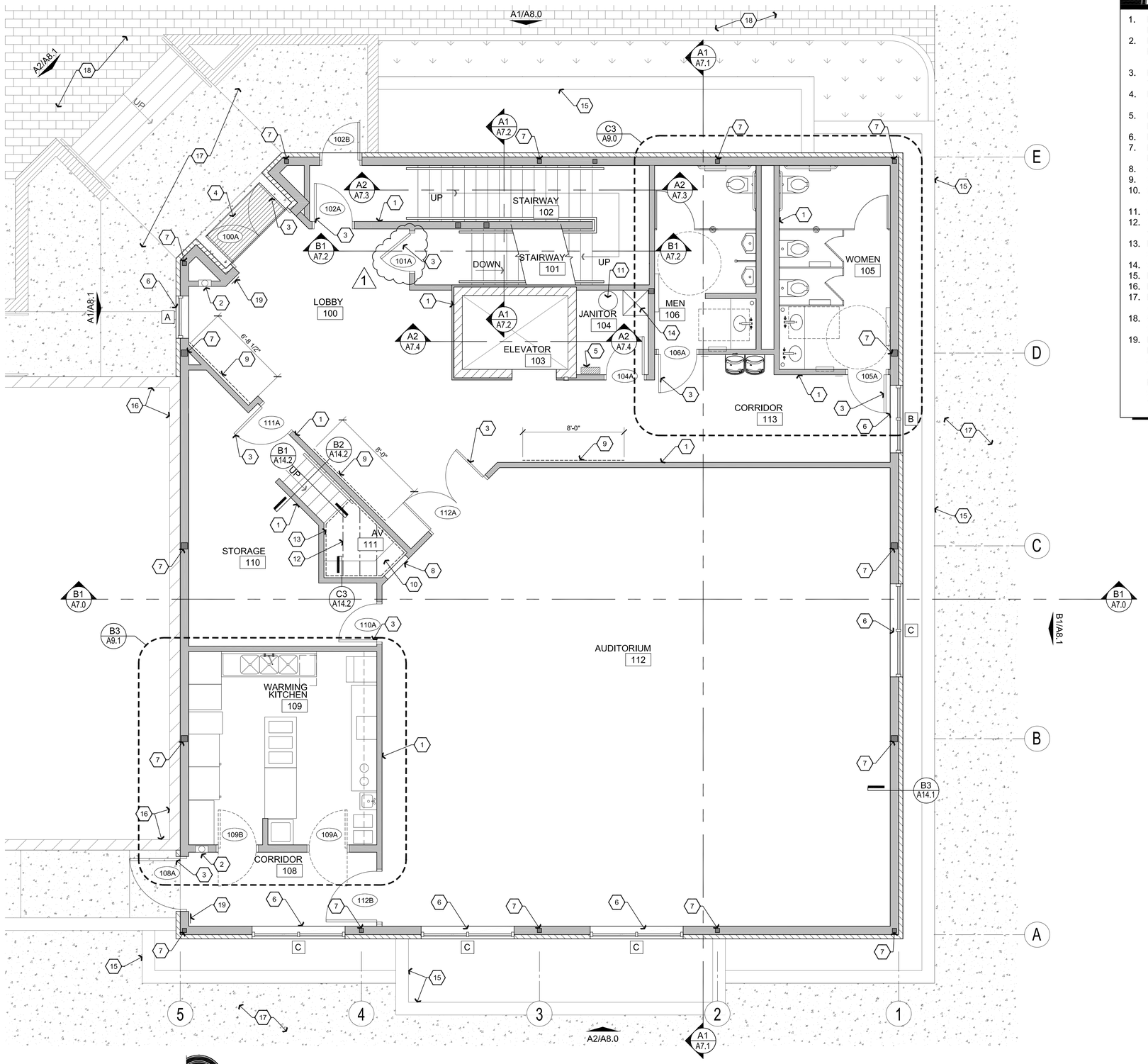
DRAWING: Basement Reference Floor Plan

PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ, 86301

APN: 109-02-035

DRAWN BY: L.O.
CHECKED BY: W.A.K.
DATE: Oct 30th, 2018
JOB NO.: 710
SHEET: **A2.0**

Nov 01, 2018 - 1:34pm



A1 First Floor Reference Floor Plan

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

North

Descriptive Keynotes

1. PROVIDE INTERIOR WALL, REFER TO WALL TYPES PLAN FOR TYPE OF CONSTRUCTION.
2. PROVIDE TYPE 2A10BC FIRE EXTINGUISHER IN RECESSED WALL CABINET, REFER TO MATERIALS SCHEDULE. FE-1 FEC-1
3. PROVIDE DOOR, REFER TO DOOR SCHEDULE, TYPICAL.
4. RECESSED FLOOR GRATE, REFER TO MATERIALS SCHEDULE. FG-1
5. PROVIDE SURFACE MOUNTED ELECTRICAL PANEL. REFER TO ELECTRICAL PLANS.
6. PROVIDE WINDOW, REFER TO WINDOW TYPES.
7. PROVIDE STEEL COLUMN, REFER TO STRUCTURAL PLANS.
8. OPENING IN WALL, 2'-4" x 3'-0", SILL AT 6' A.F.F.
9. SOLID BLOCKING AT 4' A.F.F. TO 8' A.F.F.
10. SOLID SURFACE COUNTERTOP 1'-6" DEEP AT 2'-6" A.F.F., SUPPORT AS REQUIRED.
11. WATER HEATER, REFER TO PLUMBING PLANS.
12. 3/4" TONGUE AND GROOVE PLYWOOD OVER 2x8s @ 1'-4" O.C. REFER TO ROOM FINISH SCHEDULE.
13. PROVIDE 2x4S @ 1'-4" O.C. PONY WALL TO SUPPORT AV ROOM FLOOR FRAMING.
14. SERVICE SINK, REFER TO PLUMBING PLANS.
15. PLANTER WALL BELOW.
16. EXISTING BUILDING WALL.
17. EXTERIOR SIDEWALK, REFER TO CIVIL PLANS AND ARCHITECTURAL SITE PLAN.
18. CONCRETE PAVERS, REFER TO ARCHITECTURAL SITE PLAN. PAV-1
19. PROVIDE A 6"x9" BLUE TACTILE 'EXIT' SIGN AS MANUFACTURED BY 'SIMPLY EXIT SIGNS (#SE-1980) OR EQUAL COMPLYING WITH ADA SECTION 703 ADJACENT TO EACH DOOR TO AN EXIT PASSAGEWAY AND THE EXIT DISCHARGE. SIGN SHALL BE MOUNTED 60" A.F.F. TO THE BOTTOM OF THE HIGHEST LINE OF TACTILE CHARACTERS.

REVISIONS		BY
1	CITY COMMENTS 12-10-2018	LO

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CERTIFICATE NO.
25646
W. ALAN KENSON
Date Signed 11/01/18
ARIZONA
EXPIRES: 6/30/21

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ARCHITECTURE & PLANNING

DRAWING: First Floor Reference Floor Plan

PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ, 86301

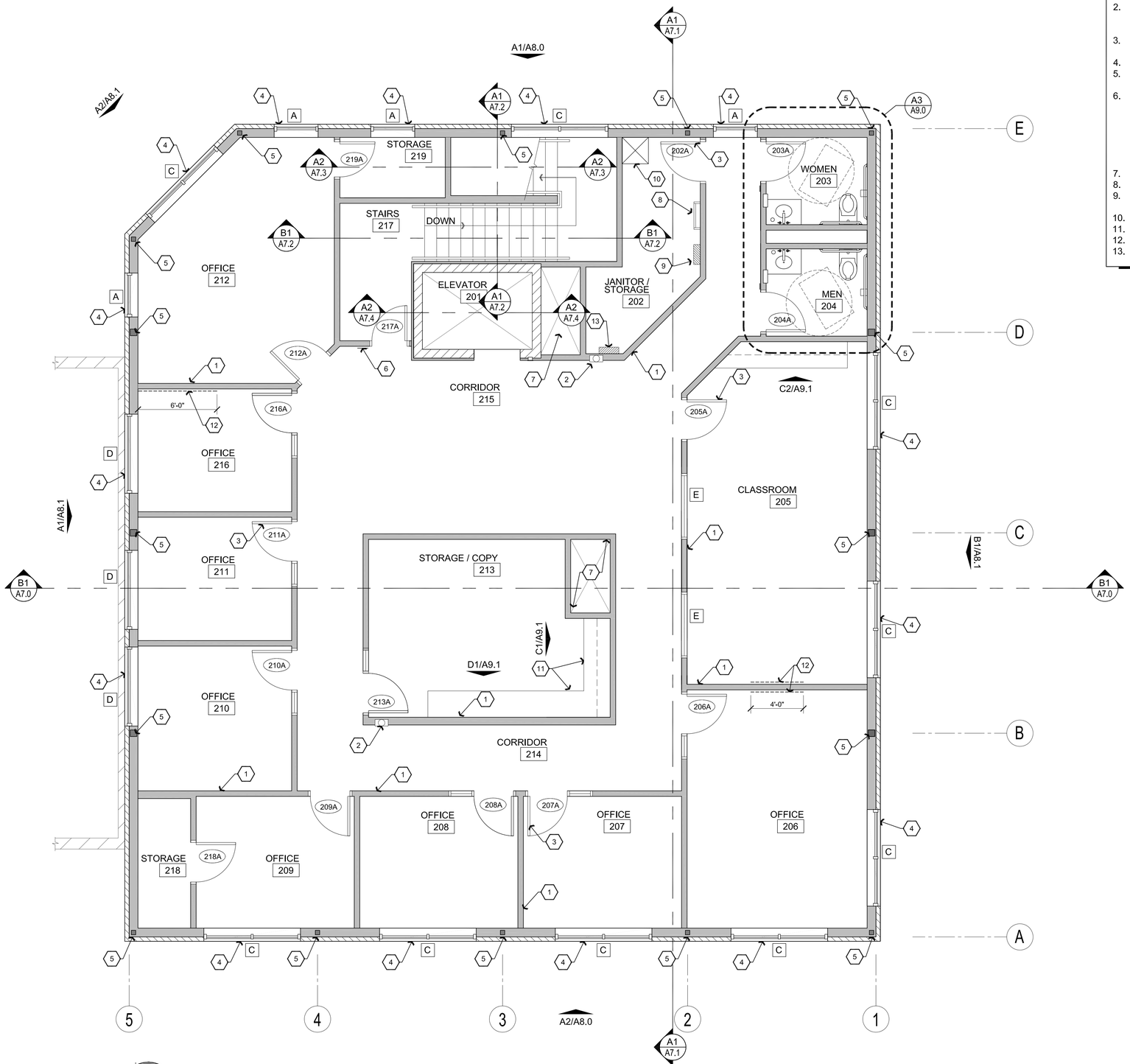
APN: 109-02-035

DRAWN BY	L.O.
CHECKED BY	W.A.K.
DATE	Oct 30th, 2018
JOB NO.	710
SHEET	A2.1

Dec 27, 2018 - 1:11pm

Descriptive Keynotes

1. PROVIDE INTERIOR WALL, REFER TO WALL TYPES PLAN FOR TYPE OF CONSTRUCTION.
2. PROVIDE TYPE 2A10BC FIRE EXTINGUISHER IN RECESSED WALL CABINET, REFER TO MATERIALS SCHEDULE. FE-1 FEC-1
3. PROVIDE DOOR, REFER TO DOOR SCHEDULE, TYPICAL.
4. PROVIDE WINDOW, REFER TO WINDOW TYPES.
5. PROVIDE STEEL COLUMN, REFER TO STRUCTURAL PLANS.
6. PROVIDE A 6"x9" BLUE TACTILE 'EXIT' SIGN AS MANUFACTURED BY 'SIMPLY EXIT SIGNS (#SE-1980)' OR EQUAL COMPLYING WITH ADA SECTION 703 ADJACENT TO EACH DOOR TO AN EXIT PASSAGEWAY AND THE EXIT DISCHARGE. SIGN SHALL BE MOUNTED 60" A.F.F. TO THE BOTTOM OF THE HIGHEST LINE OF TACTILE CHARACTERS.
7. HVAC SHAFT.
8. PROVIDE ROOF ACCESS LADDER.
9. SURFACE MOUNTED ELECTRICAL PANEL, REFER TO ELECTRICAL PLANS.
10. MOP SINK, REFER TO PLUMBING PLANS.
11. OPEN SHELVES, REFER TO INTERIOR ELEVATIONS.
12. SOLID BLOCKING AT 2' AFF TO 6' AFF.
13. NETWORK SWITCH BY OWNER.



A1 Second Floor Reference Floor Plan

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

North

REVISIONS	BY

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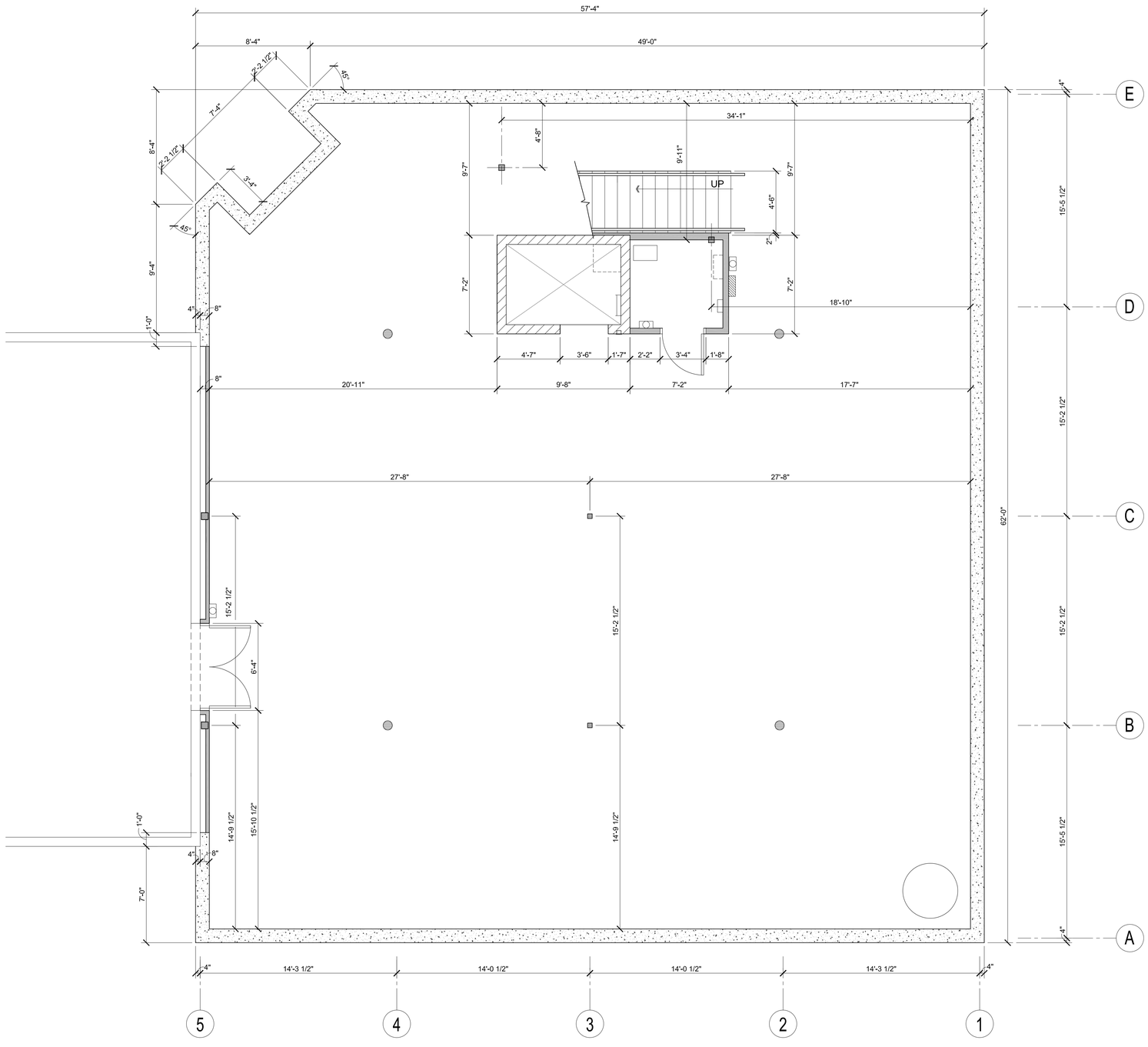
DRAWING: Second Floor Reference Floor Plan

PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ. 86301

APN: 109-02-035

DRAWN BY	L.O.
CHECKED BY	W.A.K.
DATE	Oct 30th, 2018
JOB NO.	710
SHEET	A2.2

Nov 01, 2018 - 1:34pm



A1 Basement Dimension Plan

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

North

Nov 01, 2018 - 11:30am

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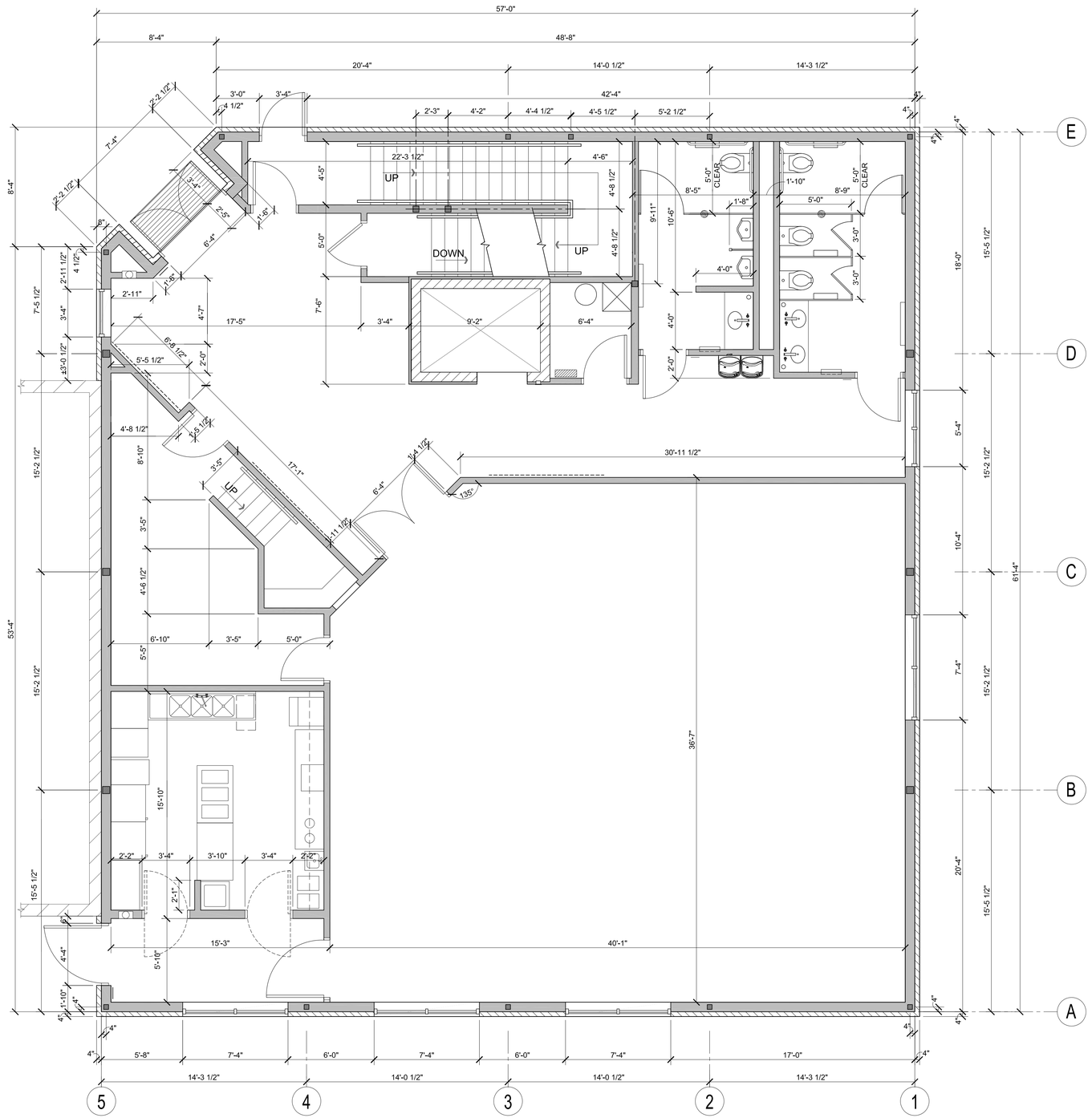
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ARCHITECTURE & PLANNING

DRAWING: Basement Dimension Plan

PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ, 86301

APN: 109-02-035

DRAWN BY	L.O.
CHECKED BY	W.A.K.
DATE	Oct 30th, 2018
JOB NO.	710
SHEET	A3.0



A1 First Floor Dimension Plan

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

North

Nov 01, 2018 - 11:30am

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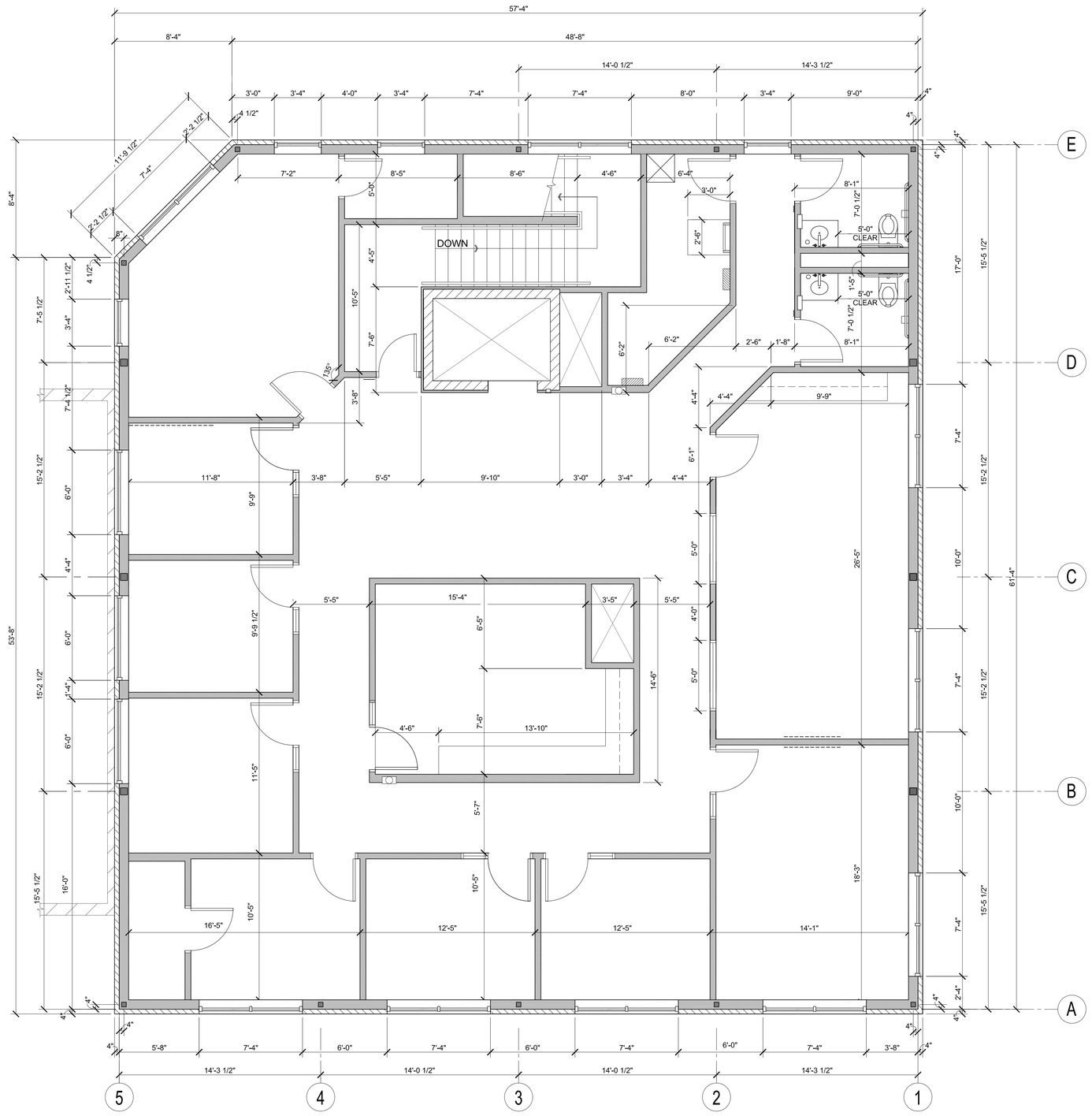
ARCHITECTURE & PLANNING

DRAWING: First Floor Dimension Plan

PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ, 86301

APN: 109-02-035

DRAWN BY	L.O.
CHECKED BY	W.A.K.
DATE	Oct 30th, 2018
JOB NO.	710
SHEET	A3.1



A1 Second Floor Dimension Plan

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

Nov 01, 2018 - 11:32am

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ARCHITECTURE & PLANNING

DRAWING: Second Floor Dimension Plan

PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ, 86301

APN: 109-02-035

DRAWN BY	L.O.
CHECKED BY	W.A.K.
DATE	Oct 30th, 2018
JOB NO.	710
SHEET	**A3.2**

WALL TYPES 'D' & 'E'	IBC 2012 TABLE 721.1(2)
RATED FIRE-RESISTANCE PERIODS FOR VARIOUS WALLS AND PARTITIONS	

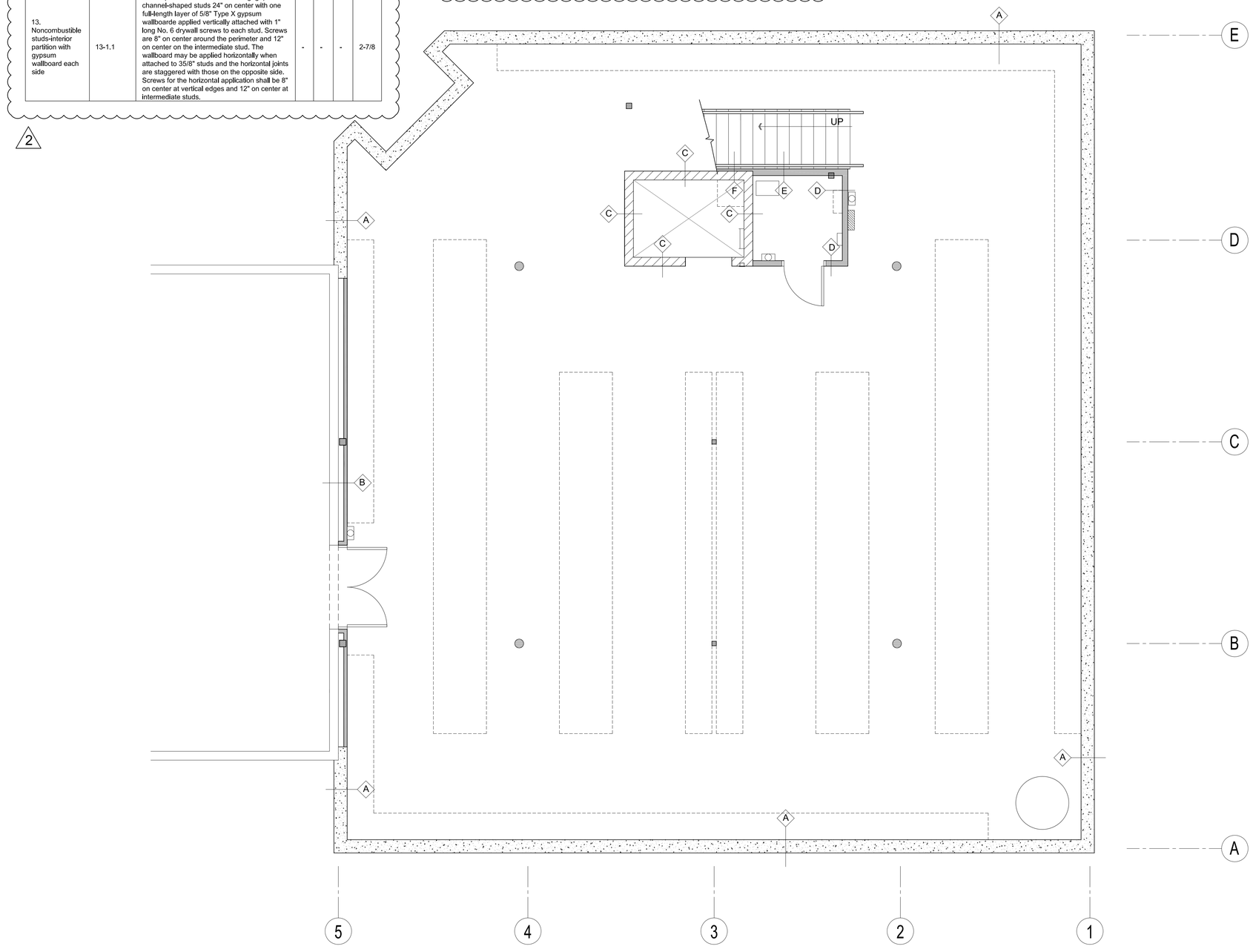
MATERIAL	ITEM NUMBER	DESCRIPTION	MINIMUM FINISHED THICKNESS FACE TO FACE (INCHES)			
			4	3	2	1
13. Noncombustible studs-interior partition with gypsum wallboard each side	13-1.1	0.018" (No. 25 carbon sheet steel gage) channel-shaped studs 24" on center with one full-length layer of 5/8" Type X gypsum wallboarde applied vertically attached with 1" long No. 6 drywall screws to each stud. Screws are 8" on center around the perimeter and 12" on center on the intermediate stud. The wallboard may be applied horizontally when attached to 35/8" studs and the horizontal joints are staggered with those on the opposite side. Screws for the horizontal application shall be 8" on center at vertical edges and 12" on center at intermediate studs.	-	-	-	2-7/8

2

WALL TYPES 'C' & 'F'	IBC 2012 TABLE 721.1(2)
RATED FIRE-RESISTANCE PERIODS FOR VARIOUS WALLS AND PARTITIONS	

MATERIAL	ITEM NUMBER	DESCRIPTION	MINIMUM FINISHED THICKNESS FACE TO FACE (INCHES)			
			4	3	2	1
3 Concrete Masonry Units	3-1.3f	Limestone, Cinders or air-cooled slag	5.9	5.0	4.0	2.7

2



Wall Types Legend

A — EXTERIOR WALL:
PROVIDE CONCRETE RETAINING WALL, REFER TO STRUCTURAL PLANS.

B — INTERIOR WALL:
PROVIDE 3 5/8", 20 GAUGE METAL STUDS @ 2'-0" O.C. WITH AIR SPACE BETWEEN STUD AND EXISTING BUILDING WITH 5/8" GPDW ON EXPOSED SIDE.

C — INTERIOR WALL: PROVIDE 8" CMU WALL, REFER TO STRUCTURAL PLANS.
1 HR FIRE WALL PER IBC2012 TABLE 721.1 (2) ITEM NUMBER 3-1.3f
1

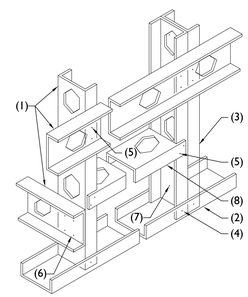
D — 1 HOUR FIRE RATED INTERIOR STUD WALL:
PROVIDE 3-5/8" 25 GA. STEEL STUDS AT 2'-0" O.C. WITH 5/8" TYPE 'X' GPDW ON EACH SIDE.
1 HR FIRE WALL PER IBC2012 TABLE 721.1 (2) ITEM NUMBER 13-1.1
2

E — 1 HOUR FIRE RATED INTERIOR STUD WALL:
PROVIDE 6" 25 GA. STEEL STUDS AT 2'-0" O.C. WITH 5/8" TYPE 'X' GPDW ON EACH SIDE.
1 HR FIRE WALL PER IBC2012 TABLE 721.1 (2) ITEM NUMBER 13-1.1
2

F — INTERIOR WALL: PROVIDE 8" CMU WALL WITH 1-5/8", 25 GAUGE STEEL STUDS AT 2'-0" O.C. WITH 5/8" GPDW ON EXTERIOR SIDE OF SHAFT. THIS OCCURS ABOVE STAIRS ONLY.
1 HR FIRE WALL PER IBC2012 TABLE 721.1 (2) ITEM NUMBER 3-1.3f
1

NOTES:

1. STEEL STUD.
2. UN-PUNCHED STEEL STUD TRACK - ATTACHMENT REQUIRED 1/2" DIAMETER EXPANSION BOLTS AT 48' O.C. (2 MINIMUM) OR 3/8" x 3/4" LONG POWDER DRIVEN PINS AT 12" O.C.. FASTENER SHALL HAVE I.C.B.O. REPORT FOR SAME INSTALLATION.
3. MULTIPLE OR INTERSECTING STUDS WHERE SHOWN ON PLAN OR DETAILS. CONNECT WITH #10 x 3/4" LONG SHEET METAL SCREWS AT 24" O.C. STAGGERED SPACING. AT INTERSECTING STUDS 1 ROW OF SCREWS.
4. #10 x 3/4" LONG SHEET METAL SCREWS EACH SIDE. EACH STUD.
5. 2 - #10 x 3/4" LONG SHEET METAL SCREWS.
6. 4 - #10 x 3/4" LONG SHEET METAL SCREWS.
7. #10 x 3/4" LONG SHEET METAL SCREWS AT 12" O.C. AT DOUBLE STUDS.
8. STUD BLOCKING.



A1 Basement Wall Types Plan

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

North

A2 Typical Framing Detail

REVISIONS	BY
1 CITY COMMENTS 12-10-2018	LO
2 CITY COMMENTS 1-22-2019	LO

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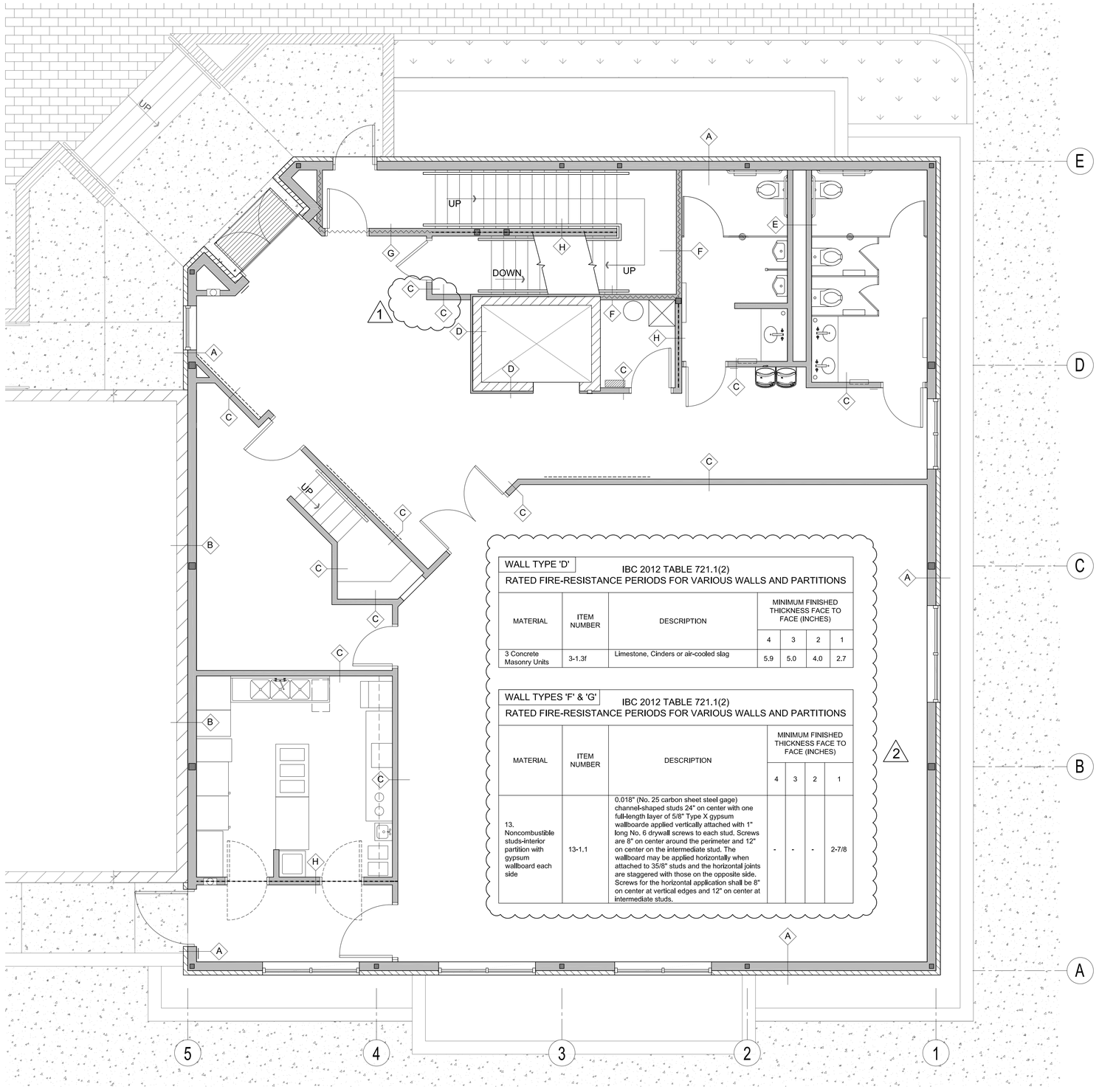
DRAWING: Basement Wall Types Plan

PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ, 86301

APN: 109-02-035

DRAWN BY: L.O.
CHECKED BY: W.A.K.
DATE: Oct 30th, 2018
JOB NO.: 710
SHEET: A4.0

Jan 28, 2019 - 1:23pm



WALL TYPE 'D'

IBC 2012 TABLE 721.1(2)

RATED FIRE-RESISTANCE PERIODS FOR VARIOUS WALLS AND PARTITIONS

MATERIAL	ITEM NUMBER	DESCRIPTION	MINIMUM FINISHED THICKNESS FACE TO FACE (INCHES)			
			4	3	2	1
3 Concrete Masonry Units	3-1.3f	Limestone, Cinders or air-cooled slag	5.9	5.0	4.0	2.7

WALL TYPES 'F' & 'G'

IBC 2012 TABLE 721.1(2)

RATED FIRE-RESISTANCE PERIODS FOR VARIOUS WALLS AND PARTITIONS

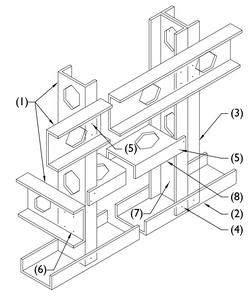
MATERIAL	ITEM NUMBER	DESCRIPTION	MINIMUM FINISHED THICKNESS FACE TO FACE (INCHES)			
			4	3	2	1
13. Noncombustible studs-interior partition with gypsum wallboard each side	13-1.1	0.018" (No. 25 carbon sheet steel gage) channel-shaped studs 24" on center with one full-length layer of 5/8" Type X gypsum wallboarde applied vertically attached with 1" long No. 6 drywall screws to each stud. Screws are 8" on center around the perimeter and 12" on center on the intermediate stud. The wallboard may be applied horizontally when attached to 35/8" studs and the horizontal joints are staggered with those on the opposite side. Screws for the horizontal application shall be 8" on center at vertical edges and 12" on center at intermediate studs.	-	-	-	2-7/8

Wall Types Legend

- A — EXTERIOR WALL: PROVIDE 3-1/2"x2-1/4"x7-5/8" RED BRICK TO MATCH EXISTING BUILDING BRICK PATTERN, OVER WEATHER PROOF BARRIER OVER 1/2" SHEATHING OVER 8", 16 GAUGE METAL STUDS @ 1'-4" O.C. WITH R-25 BATT INSULATION, AND 5/8" GPDW ON INTERIOR SIDE. REFER TO STRUCTURAL PLANS.
- B — PERIMETER WALL: 8", 16 GAUGE METAL STUDS @ 1'-4" O.C., WITH 5/8" GPDW OVER 1/2" SHEATHING ON EXPOSED INTERIOR SIDE ADJACENT TO EXISTING WALL. REFER TO STRUCTURAL PLANS.
- C — INTERIOR WALL: PROVIDE 3-5/8" 25 GA. STEEL STUDS AT 2'-0" O.C. WITH 5/8" GPDW ON EXPOSED SIDE. PROVIDE R-11 BATT INSULATION.
- D — INTERIOR WALL: PROVIDE 8" CMU WALL WITH 1-5/8", 25 GAUGE STEEL STUDS AT 2'-0" O.C. WITH 5/8" GPDW ON EXTERIOR SIDE OF SHAFT. 1 HR FIRE WALL PER IBC2012 TABLE 721.1 (2) ITEM NUMBER 3-1.3f
- E — INTERIOR PLUMBING WALL: PROVIDE 3-5/8" DOUBLE STEEL STUD WALL @ 2'-0" O.C. WITH EMPTY CAVITY BETWEEN FOR A TOTAL WIDTH OF 22" FOR PLUMBING CARRIERS, WITH 5/8" GPDW ON EXPOSED SIDE. PROVIDE R-11 UNFACED BATT INSULATION.
- F — 1 HOUR FIRE RATED WALL: PROVIDE 3-5/8" 25 GA. STEEL STUDS AT 2'-0" O.C. WITH 5/8" TYPE 'X' GPDW ON EACH SIDE. PROVIDE R-11 UNFACED BATT INSULATION.(1 HR FIRE WALL PER IBC2012 TABLE 721.1 (2) ITEM NUMBER 13-1.1
- G — 1 HOUR FIRE RATED 6" WALL: PROVIDE 6" 25 GA. STEEL STUDS AT 2'-0" O.C. WITH 5/8" TYPE 'X' GPDW ON EACH SIDE. PROVIDE R-11 UNFACED BATT INSULATION.(1 HR FIRE WALL PER IBC2012 TABLE 721.1 (2) ITEM NUMBER 13-1.1
- H — INTERIOR WALL: PROVIDE 6" 25 GA. STEEL STUDS AT 2'-0" O.C. WITH 5/8" GPDW ON ON BOTH SIDES. PROVIDE R-11 UNFACED BATT INSULATION.

NOTES:

1. STEEL STUD.
2. UN-PUNCHED STEEL STUD TRACK - ATTACHMENT REQUIRED 1/2" DIAMETER EXPANSION BOLTS AT 48' O.C. (2 MINIMUM) OR 3/8" x 3/4" LONG POWDER DRIVEN PINS AT 12" O.C.. FASTENER SHALL HAVE I.C.B.O. REPORT FOR SAME INSTALLATION.
3. MULTIPLE OR INTERSECTING STUDS WHERE SHOWN ON PLAN OR DETAILS. CONNECT WITH #10 x 3/4" LONG SHEET METAL SCREWS AT 24" O.C. STAGGERED SPACING. AT INTERSECTING STUDS 1 ROW OF SCREWS.
4. #10 x 3/4" LONG SHEET METAL SCREWS EACH SIDE. EACH STUD.
5. 2 - #10 x 3/4" LONG SHEET METAL SCREWS.
6. 4 - #10 x 3/4" LONG SHEET METAL SCREWS.
7. #10 x 3/4" LONG SHEET METAL SCREWS AT 12" O.C. AT DOUBLE STUDS.
8. STUD BLOCKING.



A1 First Floor Wall Types Plan

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

North

A2 Typical Framing Detail

REVISIONS	BY
1 CITY COMMENTS 12-10-2018	LO
2 CITY COMMENTS 1-22-2019	LO

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ARCHITECTURE & PLANNING

DRAWING: First Floor Wall Types Plan

PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ. 86301

APN: 109-02-035

DRAWN BY: L.O.
CHECKED BY: W.A.K.
DATE: Oct 30th, 2018
JOB NO.: 710
SHEET: A4.1

Jan 28, 2019 - 1:24pm

WALL TYPE 'F'

IBC 2012 TABLE 721.1(2)

RATED FIRE-RESISTANCE PERIODS FOR VARIOUS WALLS AND PARTITIONS

MATERIAL	ITEM NUMBER	DESCRIPTION	MINIMUM FINISHED THICKNESS FACE TO FACE (INCHES)			
			4	3	2	1
13. Noncombustible studs-interior partition with gypsum wallboard each side	13-1.1	0.018" (No. 25 carbon sheet steel gage) channel-shaped studs 24" on center with one full-length layer of 5/8" Type X gypsum wallboarde applied vertically attached with 1" long No. 6 drywall screws to each stud. Screws are 8" on center around the perimeter and 12" on center on the intermediate stud. The wallboard may be applied horizontally when attached to 35/8" studs and the horizontal joints are staggered with those on the opposite side. Screws for the horizontal application shall be 8" on center at vertical edges and 12" on center at intermediate studs.	-	-	-	2-7/8

2

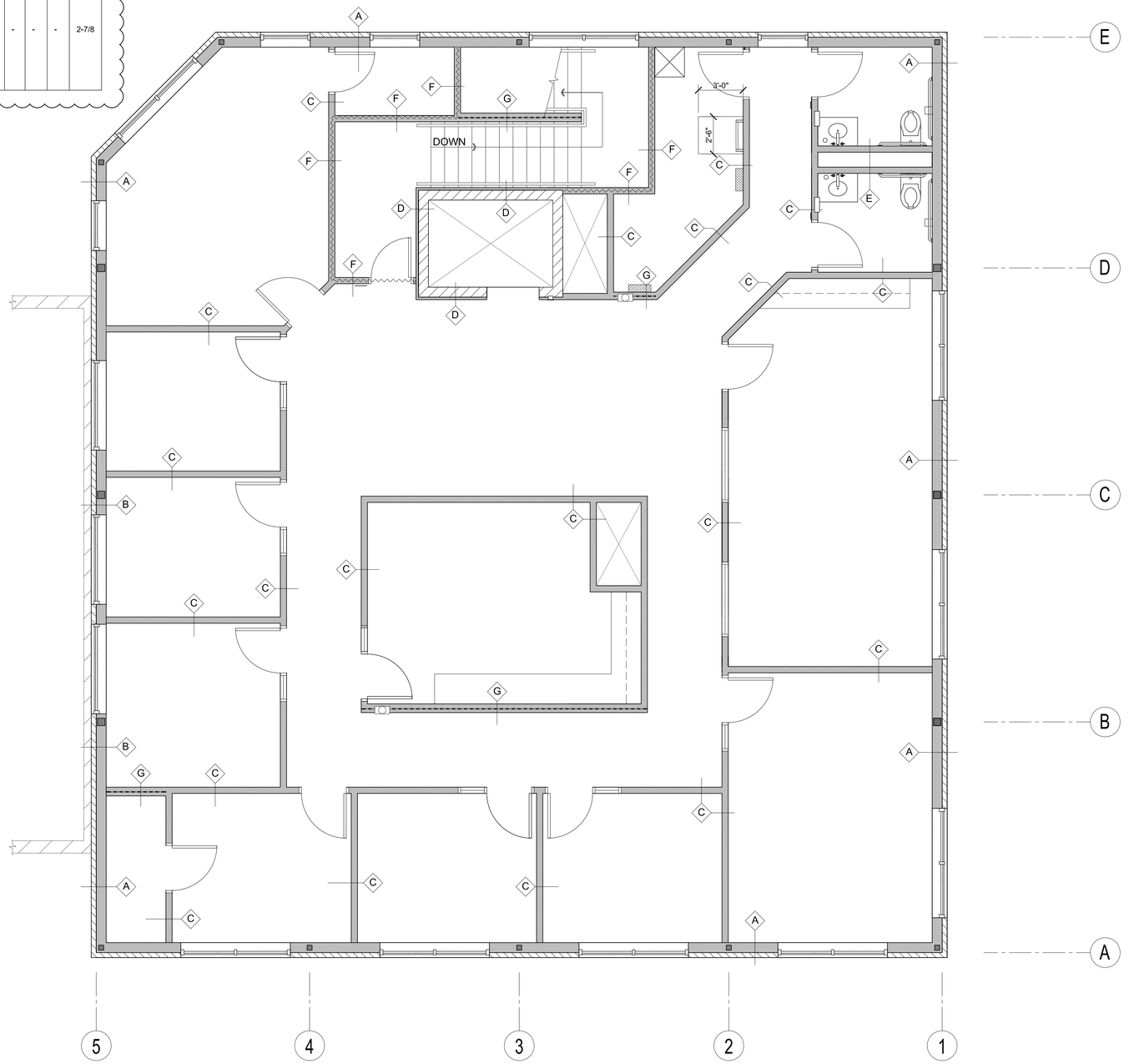
WALL TYPE 'D'

IBC 2012 TABLE 721.1(2)

RATED FIRE-RESISTANCE PERIODS FOR VARIOUS WALLS AND PARTITIONS

MATERIAL	ITEM NUMBER	DESCRIPTION	MINIMUM FINISHED THICKNESS FACE TO FACE (INCHES)			
			4	3	2	1
3 Concrete Masonry Units	3-1.3f	Limestone, Cinders or air-cooled slag	5.9	5.0	4.0	2.7

2



A1 Second Floor Wall Types Plan

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

North

Wall Types Legend

A — EXTERIOR WALL: PROVIDE 3-1/2"x2-1/4"x7-5/8" RED BRICK TO MATCH EXISTING BUILDING BRICK PATTERN, OVER WEATHER PROOF BARRIER OVER 1/2" SHEATHING OVER 8", 16 GAUGE METAL STUDS @ 1'-4" O.C. WITH R-25 BATT INSULATION, AND 5/8" GPDW ON INTERIOR SIDE. REFER TO STRUCTURAL PLANS.

B — EXTERIOR WALL: PROVIDE 3-5/8"x2-1/2"x7-5/8" RED BRICK TO MATCH EXISTING BUILDING BRICK PATTERN, OVER WEATHER PROOF BARRIER OVER 1/2" SHEATHING OVER 8" 16 GAUGE METAL STUDS @ 1'-4" O.C. WITH R-25 BATT INSULATION, WITH 5/8" GPDW OVER 1/2" SHEATHING ON INTERIOR SIDE. NO RED BRICK TO BE LOCATED BELOW EXISTING PARAPET ADJACENT TO EXISTING BUILDING, BUT TO BE CONTINUED ABOVE EXISTING PARAPET. REFER TO STRUCTURAL PLANS.

C — INTERIOR WALL: PROVIDE 3-5/8" 25 GA. STEEL STUDS AT 2'-0" O.C. WITH 5/8" GPDW ON EXPOSED SIDE. PROVIDE R-11 BATT INSULATION.

D — INTERIOR WALL: PROVIDE 8" CMU WALL WITH 1-5/8", 25 GAUGE STEEL STUDS AT 2'-0" O.C. WITH 5/8" GPDW ON EXTERIOR SIDE OF SHAFT.
1 HR FIRE WALL PER IBC2012 TABLE 721.1 (2) ITEM NUMBER 3-1.3f (1)

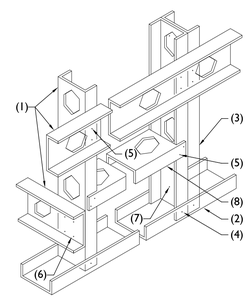
E — INTERIOR PLUMBING WALL: PROVIDE 3-5/8" DOUBLE STEEL STUD WALL @ 2'-0" O.C. WITH EMPTY CAVITY BETWEEN FOR A TOTAL WIDTH OF 22" FOR PLUMBING CARRIERS, WITH 5/8" GPDW ON EXPOSED SIDE. PROVIDE R-11 UNFACED BATT INSULATION

F — 1 HOUR FIRE RATED WALL: PROVIDE 3-5/8" 25 GA. STEEL STUDS AT 2'-0" O.C. WITH 5/8" TYPE 'X' GPDW ON EACH SIDE. PROVIDE R-11 UNFACED BATT INSULATION.
1 HR FIRE WALL PER IBC2012 TABLE 721.1 (2) ITEM NUMBER 13-1.1 (2)

G — INTERIOR WALL: PROVIDE 6" 25 GA. STEEL STUDS AT 2'-0" O.C. WITH 5/8" GPDW ON EXPOSED SIDE. PROVIDE R-11 UNFACED BATT INSULATION.

NOTES:

1. STEEL STUD.
2. UN-PUNCHED STEEL STUD TRACK - ATTACHMENT REQUIRED 1/2" DIAMETER EXPANSION BOLTS AT 48' O.C. (2 MINIMUM) OR 3/8" x 3/4" LONG POWDER DRIVEN PINS AT 12" O.C.. FASTENER SHALL HAVE I.C.B.O. REPORT FOR SAME INSTALLATION.
3. MULTIPLE OR INTERSECTING STUDS WHERE SHOWN ON PLAN OR DETAILS. CONNECT WITH #10 x 3/4" LONG SHEET METAL SCREWS AT 24" O.C. STAGGERED SPACING. AT INTERSECTING STUDS 1 ROW OF SCREWS.
4. #10 x 3/4" LONG SHEET METAL SCREWS EACH SIDE. EACH STUD.
5. 2 - #10 x 3/4" LONG SHEET METAL SCREWS.
6. 4 - #10 x 3/4" LONG SHEET METAL SCREWS.
7. #10 x 3/4" LONG SHEET METAL SCREWS AT 12" O.C. AT DOUBLE STUDS.
8. STUD BLOCKING.



A2 Typical Framing Detail

REVISIONS	BY
1 CITY COMMENTS 12-10-2018	LO
2 CITY COMMENTS 1-22-2019	LO

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REGISTERED ARCHITECT CERTIFICATE NO. 25646 W. ALAN KENSON Date Signed 11/01/18 ARIZONA EXPIRES: 6/30/21

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ARCHITECTURE & PLANNING

DRAWING: Second Floor Wall Types Plan

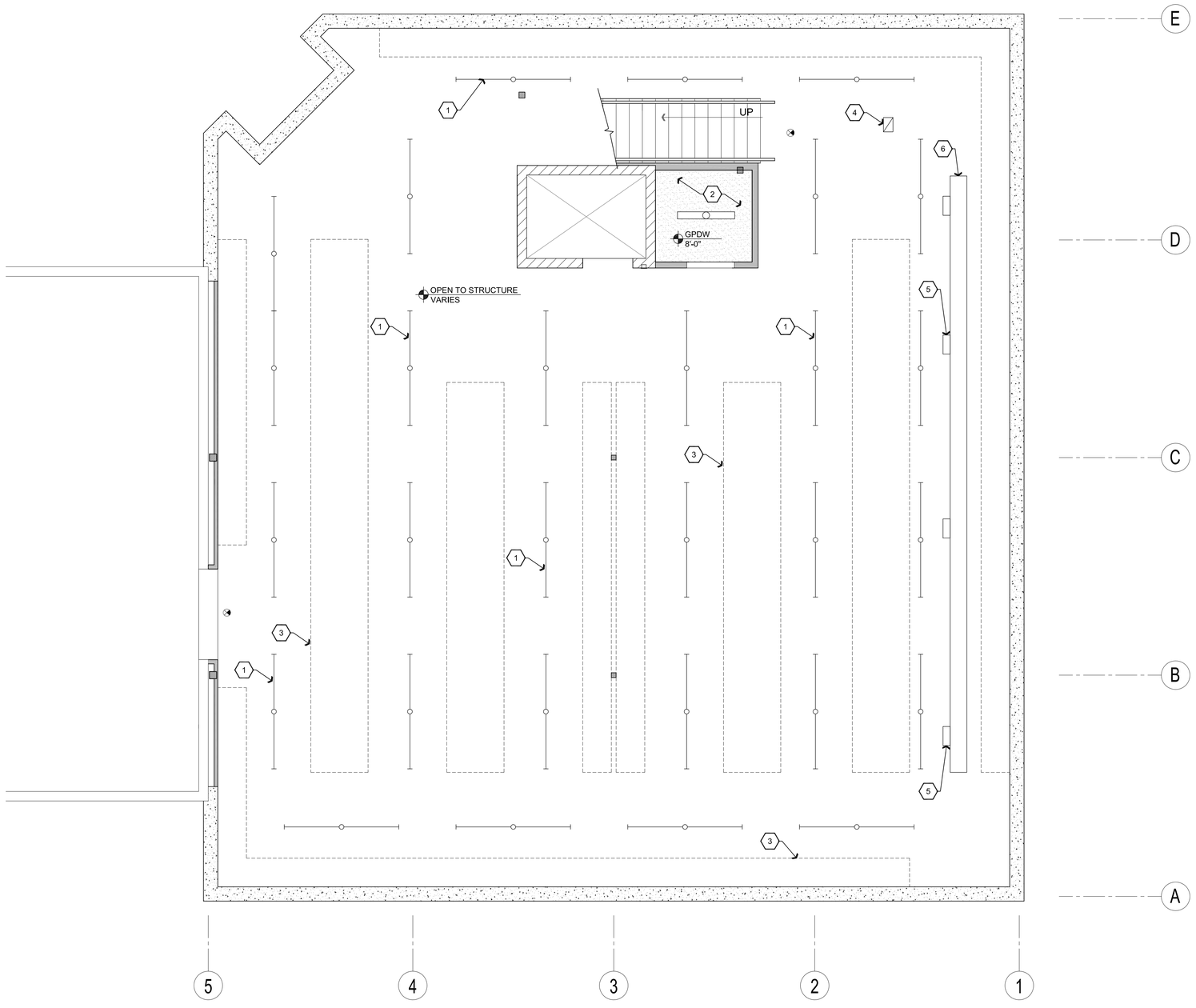
PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ, 86301

APN: 109-02-035

DRAWN BY: L.O.
CHECKED BY: W.A.K.
DATE: Oct 30th, 2018
JOB NO.: 710
SHEET:

A4.2

Jan 28, 2019 - 1:25pm



Descriptive Keynotes

1. LIGHT FIXTURE(S) SHOWN FOR QUANTITY AND LOCATION ONLY. REFER TO ELECTRICAL PLANS.
2. PROVIDE 5/8" TYPE 'X' GPDW CEILING. 1
3. LOCATION OF STORAGE RACKS PROVIDED AND INSTALLED BY OWNER.
4. HVAC RETURN, REFER TO MECHANICAL PLANS.
5. HVAC SUPPLY, REFER TO MECHANICAL PLANS
6. HVAC DUCT, REFER TO MECHANICAL PLANS.

Legend

- GPDW CEILING
- LED STRIP LIGHT
- LED STRIP LIGHT WITH LENS
- EMERGENCY EXIT SIGN WITH BATTERY BACK UP

A1 Basement Reflected Ceiling Plan

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

North

Dec 27, 2018 - 1:11pm

REVISIONS		BY
1	CITY COMMENTS 12-10-2018	LO

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W. ALAN KENSON
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ARIZONA
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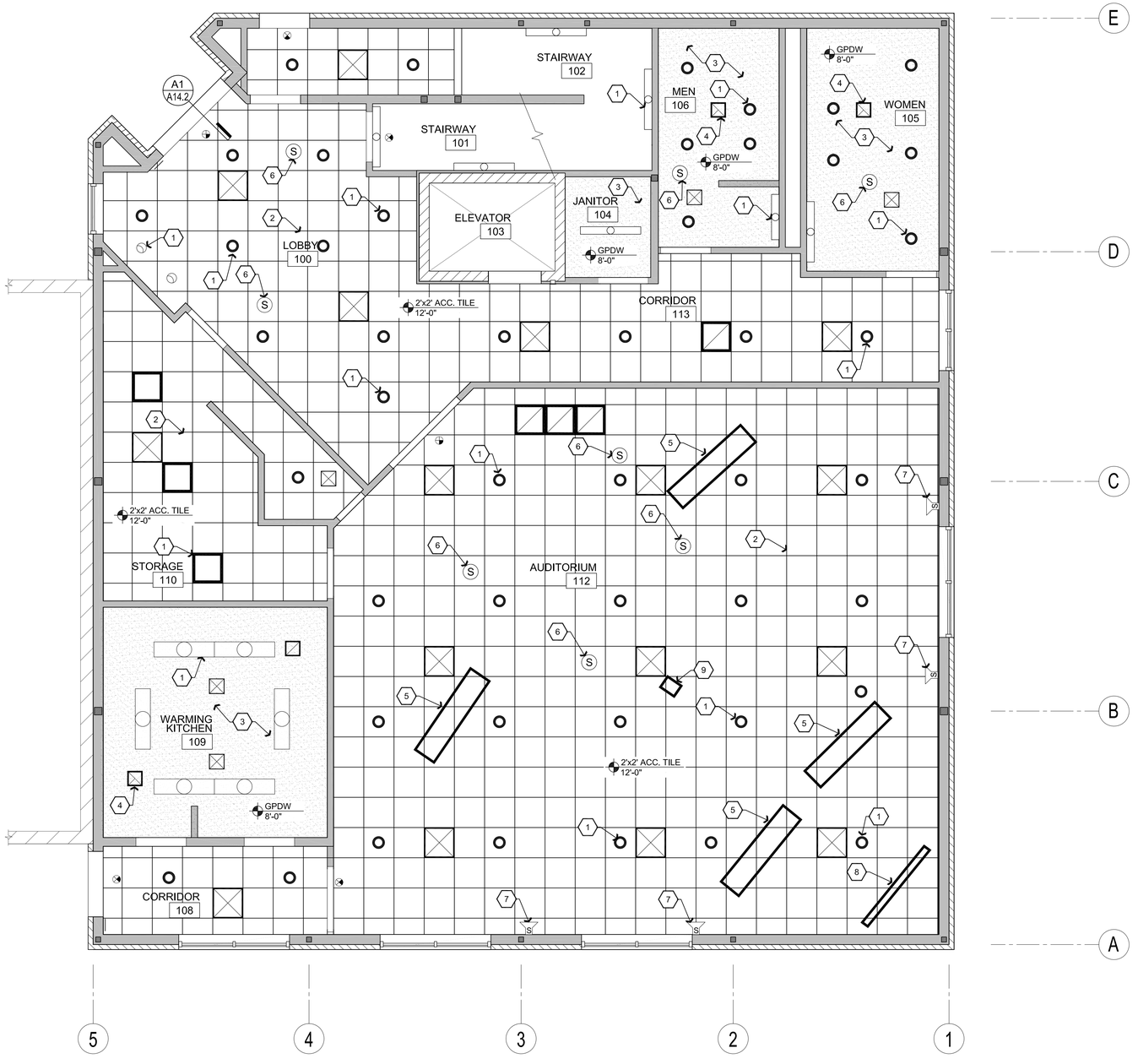
DRAWING: Basement Reflected Ceiling Plan

PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ. 86301

APN: 109-02-035

DRAWN BY: L.O.
CHECKED BY: W.A.K.
DATE: Oct 30th, 2018
JOB NO.: 710
SHEET:

A5.0



A1 First Floor Reflected Ceiling Plan

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

North

Descriptive Keynotes

1. LIGHT FIXTURE(S) SHOWN FOR QUANTITY AND LOCATION ONLY. REFER TO ELECTRICAL PLANS.
2. PROVIDE SUSPENDED ACOUSTIC PANEL CEILING. ACT-1
3. PROVIDE GPDW CEILING, REFER TO CEILING FRAMING PLAN.
4. EXHAUST FAN, REFER TO MECHANICAL PLANS, TYPICAL.
5. CEILING MOUNTED THEATRICAL TRUSS PROVIDED AND INSTALLED BY OWNER.
6. CEILING MOUNTED SPEAKER PROVIDED AND INSTALLED BY OWNER.
7. WALL MOUNTED SPEAKER PROVIDED AND INSTALLED BY OWNER.
8. ELECTRONIC RETRACTABLE SCREEN PROVIDED BY OWNER.
9. BELOW CEILING PROJECTOR PROVIDED BY OWNER.

Legend

- 2'x2' ACOUSTIC PANEL CEILING AC-1
- GPDW CEILING
- 2'X2' LED LIGHT FIXTURE
- EMERGENCY EXIT SIGN WITH BATTERY BACK UP
- SURFACE MOUNTED LIGHT FIXTURE
- EXHAUST FAN
- LED CAN LIGHT
- WALL MOUNTED SPEAKER
- CEILING MOUNTED SPEAKER
- CEILING MOUNTED THEATRICAL TRUSS
- WALL MOUNTED LIGHT FIXTURE
- DIRECTIONAL LED CAN LIGHT
- HVAC SUPPLY DIFFUSER
- HVAC RETURN

REVISIONS	BY

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ARCHITECTURE & PLANNING

DRAWING: First Floor Reflected Ceiling Plan

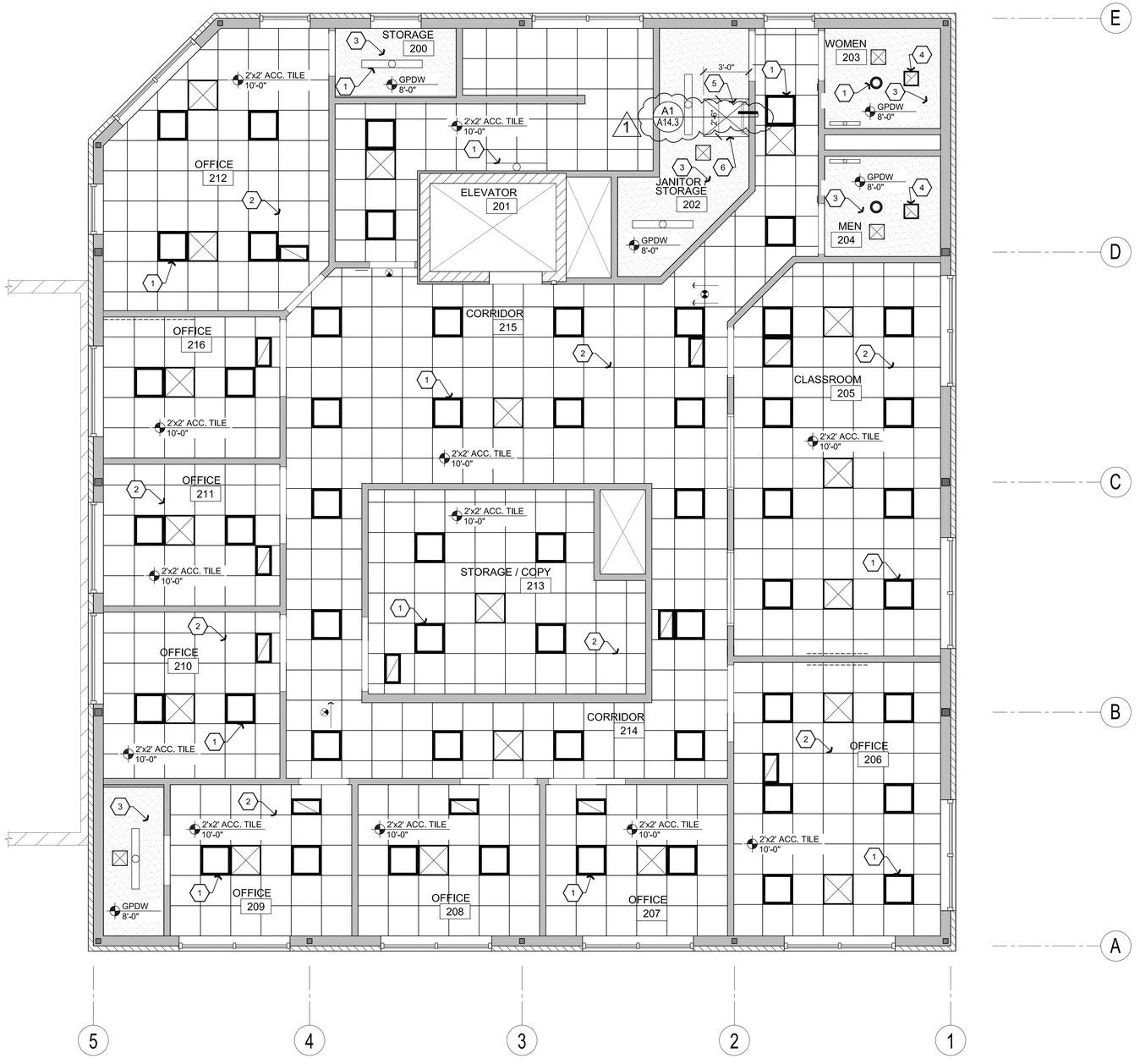
PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ. 86301

APN: 109-02-035

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CHECKED BY: W.A.K.
DATE: Oct 30th, 2018
JOB NO.: 710
SHEET:

A5.1

Nov 01, 2018 - 11:33am



A1 Second Floor Reflected Ceiling Plan

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

North

Descriptive Keynotes

1. LIGHT FIXTURE(S) SHOWN FOR QUANTITY AND LOCATION ONLY. REFER TO ELECTRICAL PLANS.
2. PROVIDE SUSPENDED ACOUSTIC PANEL CEILING. AC-1
3. PROVIDE GPDW CEILING, REFER TO CEILING FRAMING PLAN.
4. EXHAUST FAN, REFER TO MECHANICAL PLANS, TYPICAL.
5. PROVIDE ROOF ACCESS HATCH, REFER TO MATERIALS SCHEDULE. H-1
6. ROOF LADDER WELL UP TO ROOF HATCH.

Legend

- 2'x2' ACOUSTIC PANEL CEILING AC-1
- GPDW CEILING
- 2'X2' LED LIGHT FIXTURE
- EMERGENCY EXIT SIGN WITH BATTERY BACK UP
- SURFACE OR WALL MOUNTED LIGHT FIXTURE
- HVAC SUPPLY DIFFUSER
- HVAC RETURN
- EXHAUST FAN
- LED CAN LIGHT

REVISIONS		BY
1	CITY COMMENTS 12-10-2018	LO

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ARCHITECTURE & PLANNING

DRAWING: Second Floor Reflected Ceiling Plan

PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ. 86301

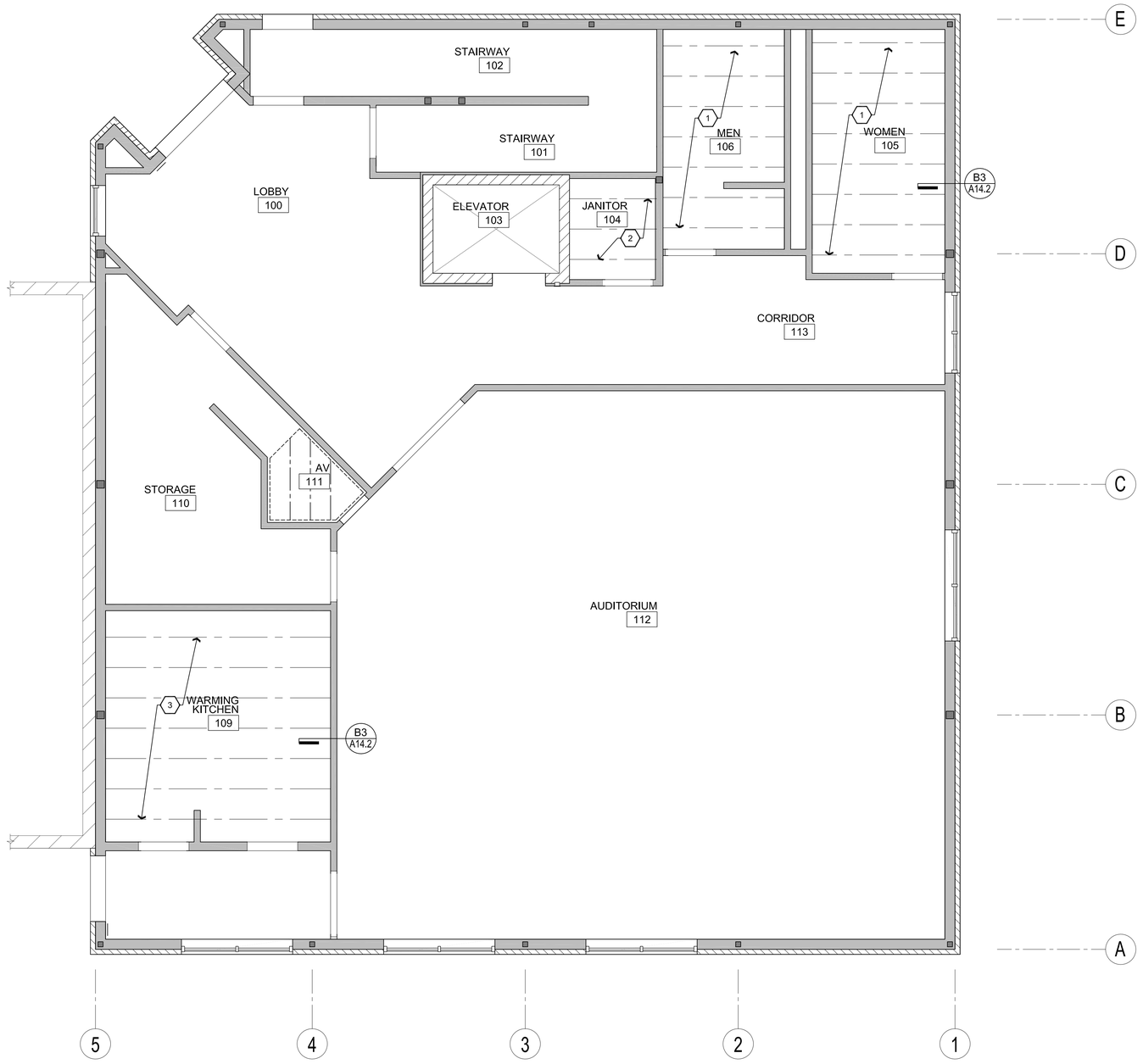
APN: 109-02-035

DRAWN BY	L.O.
CHECKED BY	W.A.K.
DATE	Oct 30th, 2018
JOB NO.	710
SHEET	A5.2

Dec 27, 2018 - 1:12pm

Descriptive Keynotes

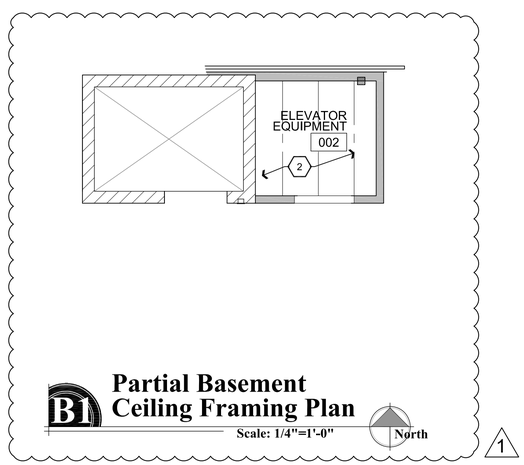
1. PROVIDE 6" 20 GAUGE METAL JOISTS @ 2'-0" O.C.
2. PROVIDE 3-5/8" 25 GAUGE METAL JOISTS @ 2'-0" O.C.
3. PROVIDE 8", 18 GAUGE METAL JOISTS @ 2'-0" O.C.



A1 First Floor Ceiling Framing Plan

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

North



B1 Partial Basement Ceiling Framing Plan

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

North

1

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1	CITY COMMENTS 12-10-2018	LO

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ARCHITECTURE & PLANNING

DRAWING: First Floor Ceiling Framing Plan

PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ, 86301

APN: 109-02-035

DRAWN BY: L.O.
CHECKED BY: W.A.K.
DATE: Oct 30th, 2018
JOB NO.: 710
SHEET:

A5.3

Dec 27, 2018 - 1:12pm

Descriptive Keynotes

1. PROVIDE 6" 25 GAUGE METAL JOISTS @ 2'-0" O.C.
2. PROVIDE 3-5/8" 25 GAUGE METAL JOISTS @ 2'-0" O.C.
3. 2'-6"x3'-0" DRYWALL WELL UP TO ROOF.



A1 Second Floor Ceiling Framing Plan

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

North

Dec 27, 2018 - 1:12pm

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ARCHITECTURE & PLANNING

DRAWING: Second Floor Ceiling Framing Plan

PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ, 86301

APN: 109-02-035

DRAWN BY: L.O.
CHECKED BY: W.A.K.
DATE: Oct 30th, 2018
JOB NO: 710
SHEET: A5.4

Roof Drain Leader Sizes:

1 ROOF AREA: 3,271 S.F.

3,271 S.F. x 3" RAINFALL P.H. = (1) 4" DIAMETER LEADER REQUIRED *
(2) 4" DRAINS AND (2) 4" OVERFLOW DRAINS PROVIDED

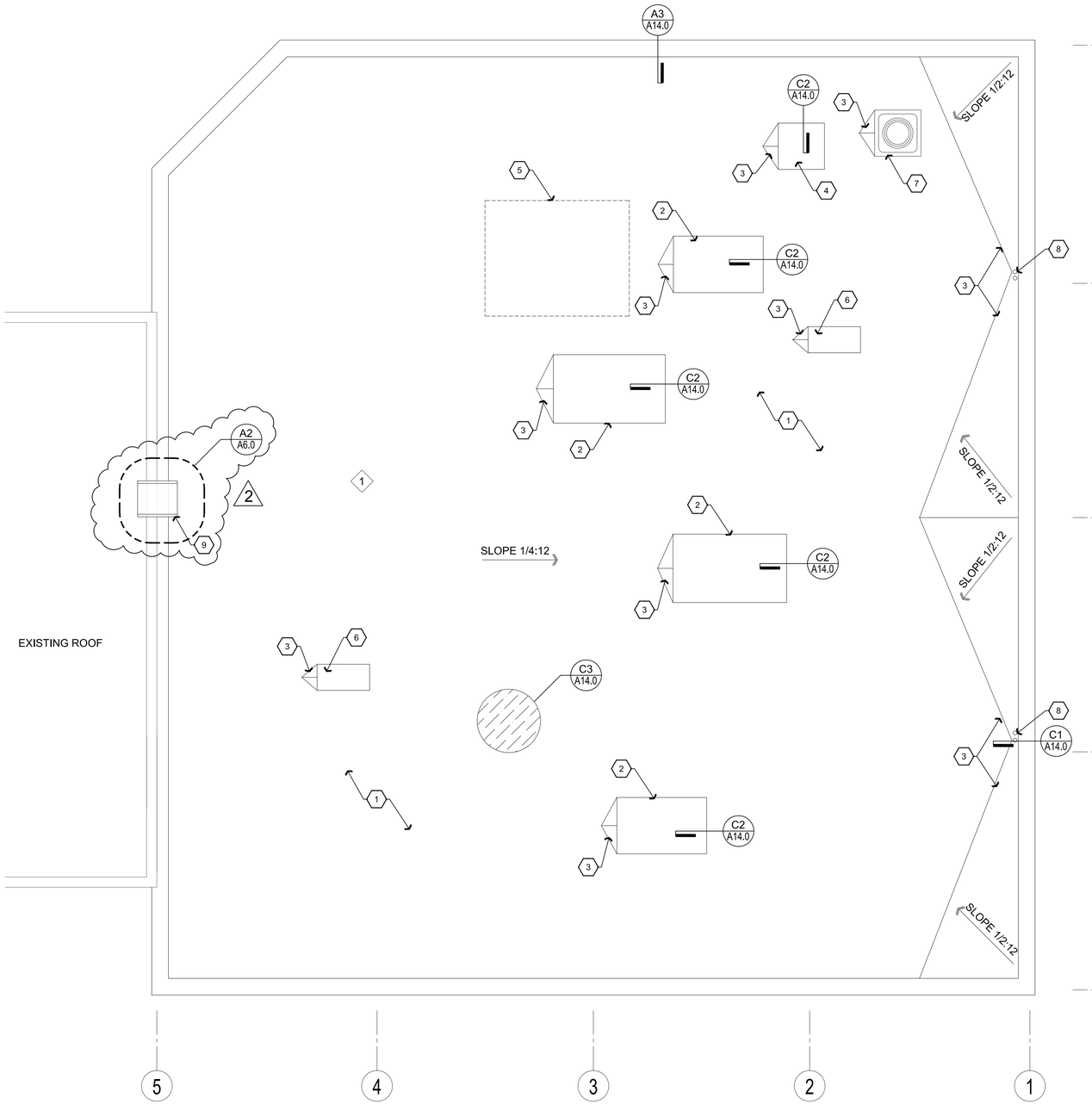
*PER 2012 IPC SECTION 1106 (TABLE 1106.2)

Descriptive Keynotes

1. SOPREMA SBS MODIFIED BITUMEN ROOFING SYSTEM, REFER TO ROOF DETAILS AND MATERIALS SCHEDULE. RF-1
2. ROOF MOUNTED HVAC EQUIPMENT WITH CURB. REFER TO MECHANICAL PLANS.
3. PROVIDE BUILT-UP ROOF CRICKET. SLOPE TO BE DOUBLE THAT OF ADJACENT ROOF. CRICKET WILL BE CONSTRUCTED USING ROOF INSULATION.
4. PROVIDE 2'-6"x3'-0" ROOF ACCESS HATCH, REFER TO DETAILS ON SHEET A14.3 AND MATERIALS SCHEDULE. RF-1 1
5. ELEVATOR SHAFT LOCATION BELOW.
6. MINI-SPLIT CONDENSING UNIT, REFER TO MECHANICAL PLANS.
7. CONDENSING UNIT, REFER TO MECHANICAL PLANS.
8. ROOF DRAIN WITH OVERFLOW, REFER TO PLUMBING PLANS.
9. PROVIDE FIXED WALL LADDER WITH CROSSOVER PLATFORM FROM EXISTING ROOF TO NEW ROOF.

2

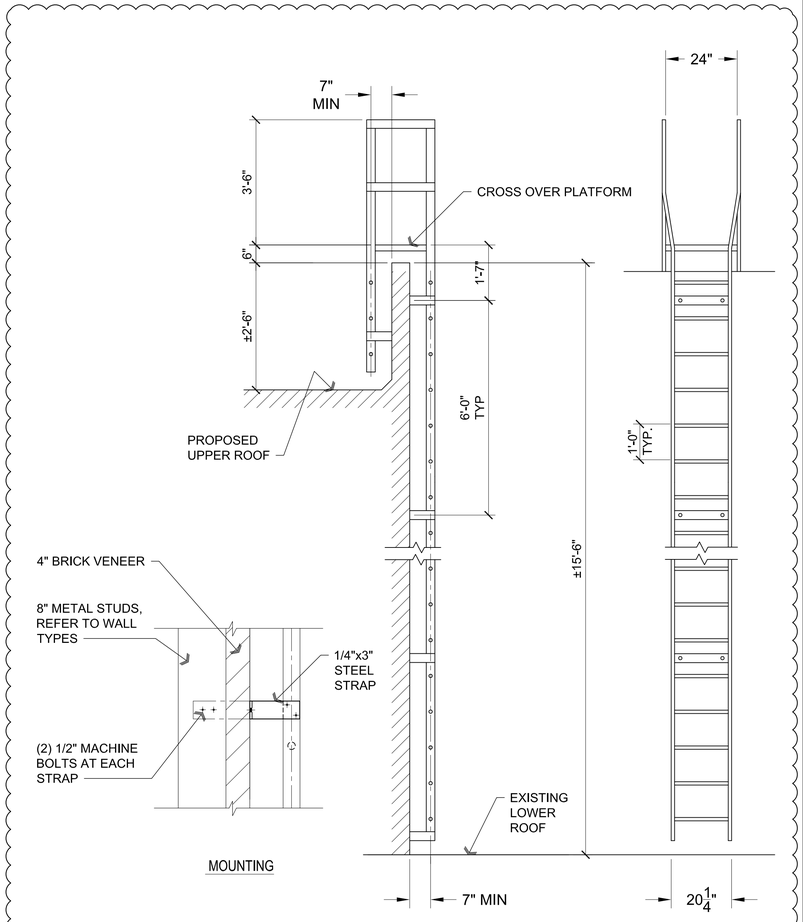
NOTE: REFER TO SHEET A14.0 FOR ROOF DETAILS



A1 Roof Plan

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

North



ALACO LADDER COMPANY MODEL 564
LADDER, PARAPET RETURN
CROSS OVER PLATFORM

A2 Ladder Details

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

2

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1 CITY COMMENTS 12-19-2018	LO
2 CITY COMMENTS 1-22-2019	LO

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ARCHITECTURE & PLANNING

DRAWING: Roof Plan

PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ, 86301

APN: 109-02-035

DRAWN BY	L.O.
CHECKED BY	W.A.K.
DATE	Oct 30th, 2018
JOB NO.	710
SHEET	A6.0

Jan 28, 2019 - 1:26pm

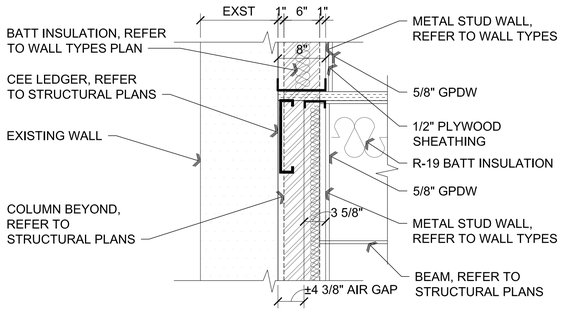
Wall Types Legend

C INTERIOR WALL: PROVIDE 3-5/8" 25 GA. STEEL STUDS AT 2'-0" O.C. WITH 5/8" GPDW ON EXPOSED SIDE. PROVIDE R-11 BATT INSULATION.

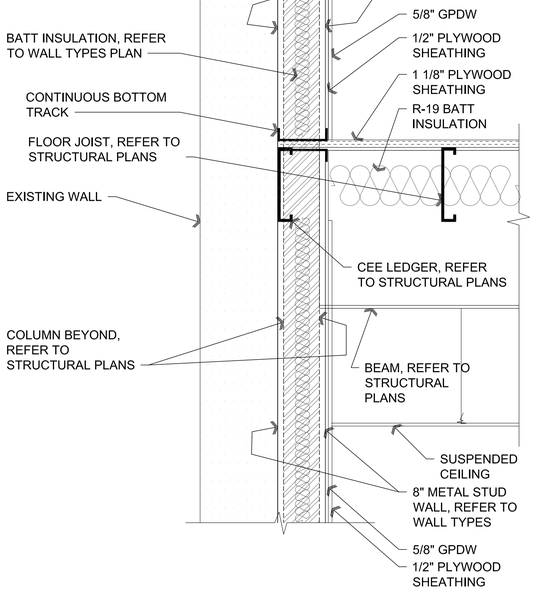
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Descriptive Keynotes

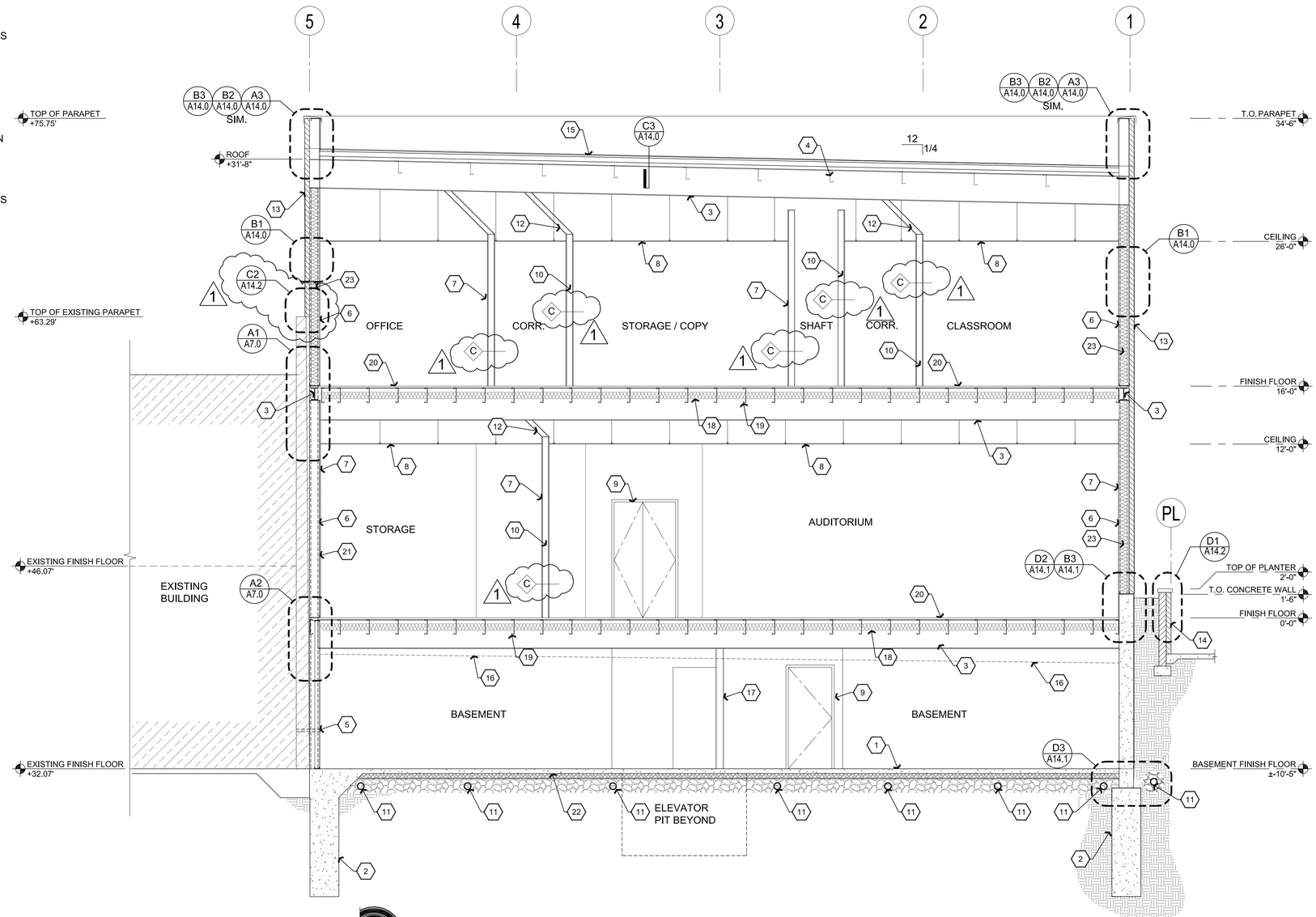
1. PROVIDE CONCRETE SLAB OVER COMPACTED A.B.C. / CRUSHED STONE, SAWCUT SLAB AT APPROXIMATELY 12'-0" O.C. IN BOTH DIRECTIONS. REFER TO STRUCTURAL PLANS.
2. PROVIDE CONCRETE FOOTING. REFER TO STRUCTURAL PLANS.
3. PROVIDE STEEL BEAM. REFER TO STRUCTURAL PLANS.
4. PROVIDE ROOF PURLIN, TYPICAL. REFER TO STRUCTURAL PLANS.
5. PROVIDE 2" SLEEVE THROUGH WALL FOR LOW VOLTAGE, REFER TO ELECTRICAL PLANS.
6. PROVIDE STRUCTURAL METAL STUD WALL, REFER TO WALL TYPES AND STRUCTURAL PLANS.
7. PROVIDE 5/8" GPDW, TYPICAL, REFER TO WALL TYPES PLAN.
8. SUSPENDED CEILING. REFER TO REFLECTED CEILING PLAN AND MATERIALS SCHEDULE. ACT-1
9. PROVIDE DOOR. REFER TO REFERENCE FLOOR PLAN AND DOOR SCHEDULE.
10. PARTITION WALL, TYPICAL, REFER TO REFERENCE FLOOR PLAN AND WALL TYPES PLAN.
11. PROVIDE DEWATERING SYSTEM DRAIN PIPE, REFER TO PLUMBING, CIVIL AND UNDERGROUND DRAINAGE PLANS.
12. PROVIDE 3½", 25 GAUGE LATERAL STABILIZATION @ 6'-0" O.C. MAXIMUM, TYPICAL.
13. PROVIDE 3-5/8"x2-1/4"x7-5/8" BRICK TO MATCH EXISTING BUILDING BRICK PATTERN, OVER WEATHER PROOF BARRIER OVER 1/2" SHEATHING REFER TO WALL TYPES PLAN, STRUCTURAL PLANS AND MATERIALS SCHEDULE. BV-1
14. PROVIDE PLANTER, REFER TO ARCHITECTURAL DETAILS, SITE PLAN AND STRUCTURAL PLANS.
15. SOPREMA SBS MODIFIED BITUMEN ROOFING SYSTEM, REFER TO ROOF DETAILS AND MATERIALS SCHEDULE. PAV-1
16. APPROXIMATE LINE OF EXISTING GRADE AT PARKING LOT.
17. PROVIDE STEEL COLUMN, REFER TO STRUCTURAL PLANS.
18. PROVIDE R-19 UNFACED BATT INSULATION.
19. PROVIDE FLOOR JOIST, REFER TO STRUCTURAL PLANS.
20. 1 1/8" PLYWOOD SHEATHING, REFER TO STRUCTURAL PLANS.
21. PROVIDE 1/2" PLYWOOD SHEATHING.
22. BELOW SLAB VAPOR BARRIER.
23. PROVIDE R-25 UNFACED BATT INSULATION.



A2 WALL/FLOOR CONNECTION
SCALE: 1" = 1'-0"



A1 WALL/FLOOR CONNECTION
SCALE: 1" = 1'-0"



B1 Building Section
Scale: 1/4"=1'-0"

Dec 27, 2018 - 2:23pm

REVISIONS | BY
1 CITY COMMENTS 12-10-2018 | LO

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ARCHITECTURE & PLANNING

DRAWING: Building Section
PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ, 86301
APN: 109-02-035

DRAWN BY: L.O.
CHECKED BY: W.A.K.
DATE: Oct 30th, 2018
JOB NO.: 710
SHEET:

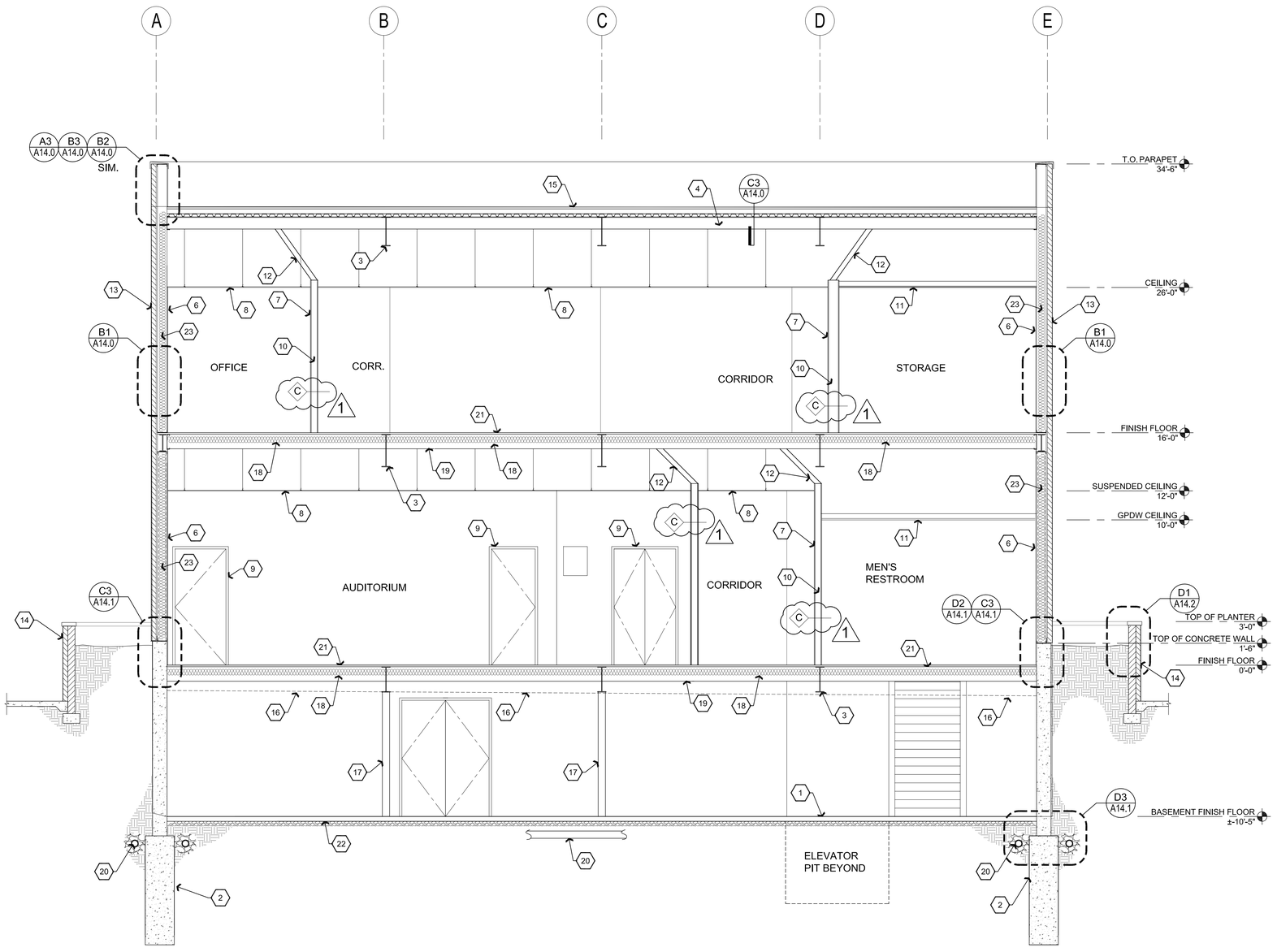
A7.0

Wall Types Legend

◇C INTERIOR WALL: PROVIDE 3-5/8" 25 GA. STEEL STUDS AT 2'-0" O.C. WITH 5/8" GPDW ON EXPOSED SIDE. PROVIDE R-11 BATT INSULATION.

Descriptive Keynotes

1. PROVIDE CONCRETE SLAB OVER COMPACTED A.B.C. / CRUSHED ROCK, SAWCUT SLAB AT APPROXIMATELY 12'-0" O.C. IN BOTH DIRECTIONS. REFER TO STRUCTURAL PLANS.
2. PROVIDE CONCRETE FOOTING. REFER TO STRUCTURAL PLANS.
3. PROVIDE STEEL BEAM. REFER TO STRUCTURAL PLANS.
4. PROVIDE ROOF PURLIN, TYPICAL. REFER TO STRUCTURAL PLANS.
5. PROVIDE 1/2" PLYWOOD SHEATHING, REFER TO STRUCTURAL PLANS.
6. PROVIDE STRUCTURAL METAL STUD WALL, REFER TO WALL TYPES AND STRUCTURAL PLANS.
7. PROVIDE ⅝" GPDW.
8. SUSPENDED CEILING. REFER TO REFLECTED CEILING PLAN AND MATERIALS SCHEDULE. ACT-1
9. PROVIDE DOOR. REFER TO REFERENCE FLOOR PLAN AND DOOR SCHEDULE.
10. PARTITION WALL. REFER TO REFERENCE FLOOR PLAN AND WALL TYPES PLAN.
11. PROVIDE 5/8" GPDW CEILING. REFER TO REFLECTED CEILING PLAN.
12. PROVIDE 3⅝", 25 GAUGE LATERAL STABILIZATION @ 6'-0" O.C. MAXIMUM.
13. PROVIDE 3-5/8"x2-1/4"x7-5/8" BRICK TO MATCH EXISTING BUILDING BRICK PATTERN, OVER WEATHER PROOF BARRIER OVER 1/2" SHEATHING REFER TO WALL TYPES PLAN, STRUCTURAL PLANS AND MATERIALS SCHEDULE. BV-1
14. PROVIDE PLANTER, REFER TO ARCHITECTURAL / DETAILS SITE PLAN AND STRUCTURAL PLANS.
15. SOPREMA SBS MODIFIED BITUMEN ROOFING SYSTEM, REFER TO ROOF DETAILS AND MATERIALS SCHEDULE. RF-1
16. APPROXIMATE LINE OF EXISTING GRADE AT PARKING LOT.
17. PROVIDE STEEL COLUMN, REFER TO STRUCTURAL PLANS.
18. PROVIDE R-19 UNFACED BATT INSULATION.
19. PROVIDE FLOOR JOIST, REFER TO STRUCTURAL PLANS.
20. PROVIDE DEWATERING SYSTEM DRAIN PIPE, REFER TO PLUMBING / CIVIL PLANS / UNDERGROUND DRAINAGE PLANS.
21. 1 1/8" PLYWOOD SHEATHING, REFER TO STRUCTURAL PLANS.
22. BELOW SLAB VAPOR BARRIER.
23. PROVIDE R-25 UNFACED BATT INSULATION.



A1 Building Section

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

Dec 27, 2018 - 2:23pm

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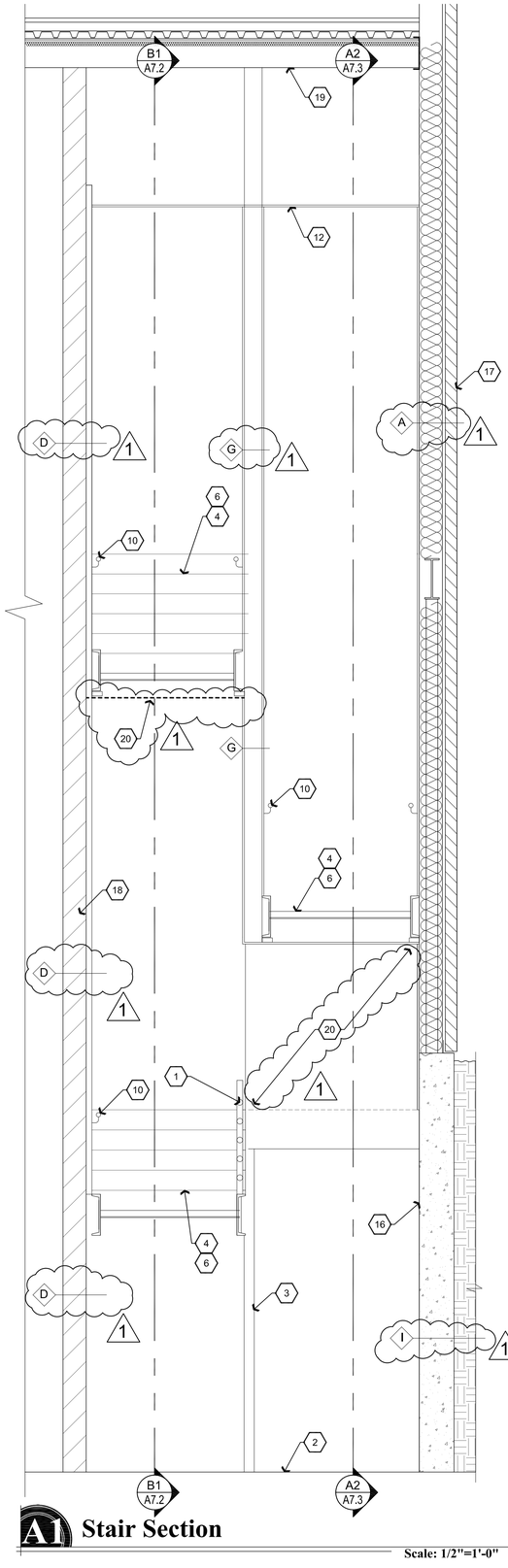
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ARCHITECTURE & PLANNING

DRAWING: Building Section

PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ, 86301

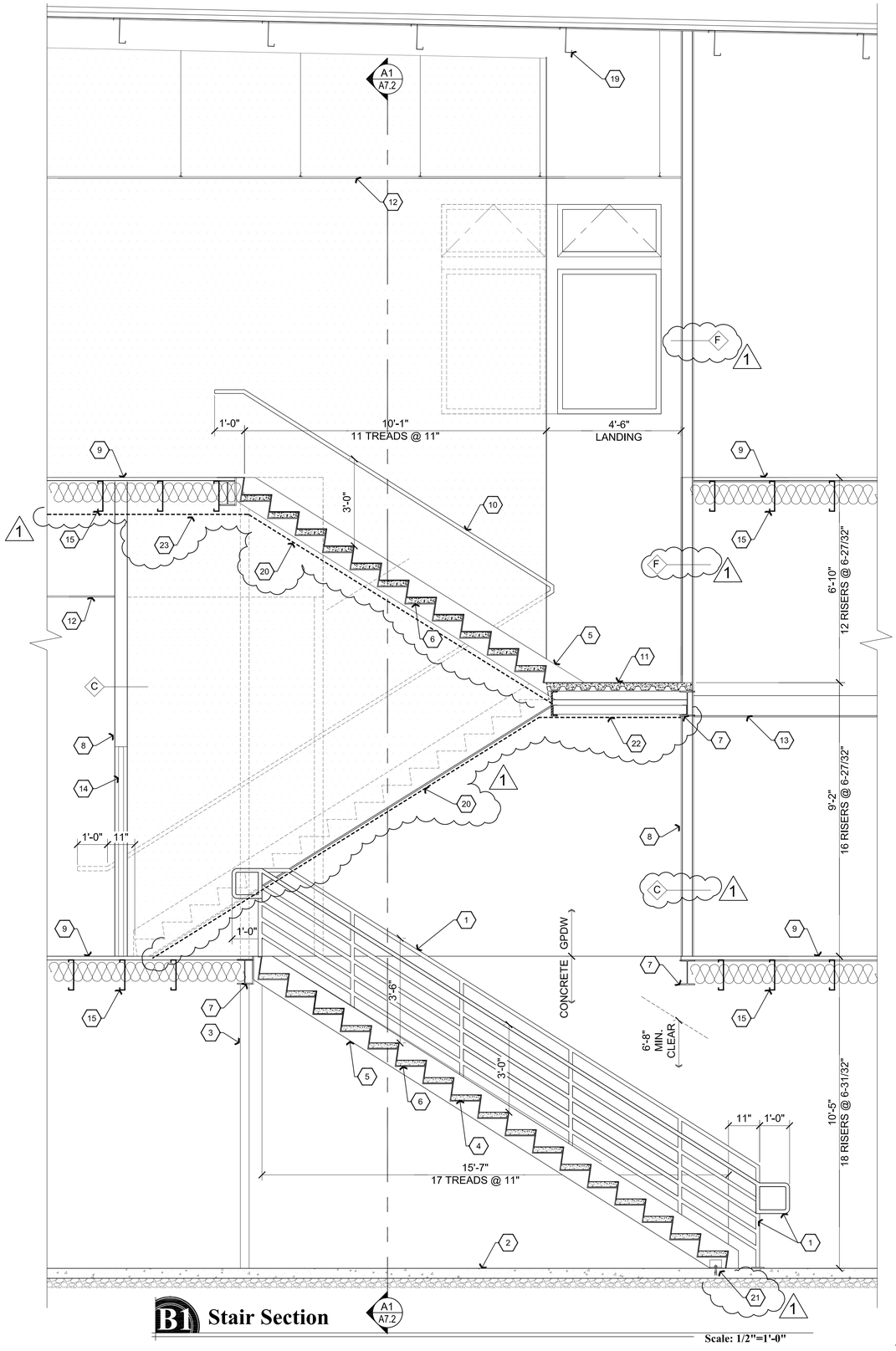
APN: 109-02-035

DRAWN BY	L.O.
CHECKED BY	W.A.K.
DATE	Oct 30th, 2018
JOB NO.	710
SHEET	A7.1



A1 Stair Section

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



B1 Stair Section

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

Descriptive Keynotes

1. PROVIDE 3'-6" HIGH 2" Ø SCHEDULE 40 PAINTED STEEL GUARDRAIL, MAXIMUM SPACE BETWEEN RAILS SHALL BE 3-15/16", WITH 1-1/2" SCHEDULE 40 PAINTED STEEL HANDRAIL @ 36" ABOVE STAIR NOSING.
2. CONCRETE SLAB, REFER TO STRUCTURAL PLANS.
3. STEEL COLUMN, REFER TO STRUCTURAL PLANS.
4. PROVIDE CONCRETE FILLED METAL PAN STAIR TREAD - REFER TO STRUCTURAL PLANS.
5. PROVIDE STEEL STRINGER - REFER TO STRUCTURAL PLANS.
6. PROVIDE STEEL TREAD / RISERS, REFER TO STRUCTURAL PLANS.
7. PROVIDE STEEL BEAM, REFER TO STRUCTURAL PLANS.
8. INTERIOR WALL, REFER TO WALL TYPES PLAN.
9. PROVIDE FLOOR SHEATHING.
10. PROVIDE 1-1/2" SCHEDULE 40 PAINTED PIPE STEEL HANDRAIL @ 36" ABOVE STAIR NOSING.
11. PROVIDE CONCRETE FILLED METAL PAN LANDING, REFER TO STRUCTURAL PLANS.
12. ACOUSTICAL PANEL CEILING, REFER TO REFLECTED CEILING PLANS.
13. GPDW CEILING, REFER TO REFLECTED CEILING PLANS.
14. DOOR, REFER TO REFERENCE FLOOR PLAN AND DOOR SCHEDULE.
15. STEEL FLOOR JOIST, REFER TO STRUCTURAL PLANS.
16. CONCRETE WALL, REFER TO STRUCTURAL PLANS.
17. EXTERIOR WALL ASSEMBLY, REFER TO WALL TYPES PLAN AND STRUCTURAL PLANS.
18. ELEVATOR WALL, REFER TO STRUCTURAL PLANS.
19. ROOF PURLIN, REFER TO STRUCTURAL PLANS.
20. PROVIDE 5/8" TYPE 'X' GPDW OVER 1/2" 16 GA. HAT CHANNEL @ 1'-4" O.C. ATTACHED TO BOTTOM OF METAL STAIR TREADS.
21. REFER TO STRUCTURAL PLANS DETAIL #303/S3.3 FOR STAIR CONNECTION.
22. PROVIDE 5/8" TYPE 'X' GPDW OVER 3 5/8", 25 GA. CEILING JOISTS @ 1'-4" O.C. THIS SHALL OCCUR BELOW INTERMEDIATE STAIR LANDING TO ENSURE 1-HOUR FIRE RATED ENCLOSURE AT EXIT STAIRWAY.
23. PROVIDE 5/8" TYPE 'X' GPDW OVER FLOOR JOIST. THIS SHALL OCCUR BELOW FIRST AND SECOND LEVEL STAIR LANDINGS TO ENSURE A 1-HOUR FIRE RATED ENCLOSURE AT EXIT STAIRWAY.

Wall Types Legend

A — EXTERIOR WALL:
PROVIDE 3-1/2"x2-1/4"x7-5/8" RED BRICK TO MATCH EXISTING BUILDING BRICK PATTERN, OVER WEATHER PROOF BARRIER OVER 1/2" SHEATHING OVER 8", 16 GAUGE METAL STUDS @ 1'-4" O.C. WITH R-25 BATT INSULATION, AND 5/8" GPDW ON INTERIOR SIDE. REFER TO STRUCTURAL PLANS.

C — INTERIOR WALL: PROVIDE 3-5/8" 25 GA. STEEL STUDS AT 2'-0" O.C. WITH 5/8" GPDW ON EXPOSED SIDE. PROVIDE R-11 BATT INSULATION.

D — INTERIOR WALL: PROVIDE 8" CMU WALL WITH 1-5/8", 25 GAUGE STEEL STUDS AT 2'-0" O.C. WITH 5/8" GPDW ON EXTERIOR SIDE OF SHAFT. THIS OCCURS ABOVE STAIRS ONLY.
1 HR FIRE WALL PER IBC2012 TABLE 721.1 (2) ITEM NUMBER 3-1.3f

F — 1 HOUR FIRE RATED WALL: PROVIDE 3-5/8" 25 GA. STEEL STUDS AT 2'-0" O.C. WITH 5/8" TYPE 'X' GPDW ON EACH SIDE. PROVIDE R-11 UNFACED BATT INSULATION.

G — 1 HOUR FIRE RATED 6" WALL: PROVIDE 6" 25 GA. STEEL STUDS AT 2'-0" O.C. WITH 5/8" TYPE 'X' GPDW ON EACH SIDE. PROVIDE R-11 UNFACED BATT INSULATION.

I — EXTERIOR WALL:
PROVIDE CONCRETE RETAINING WALL, REFER TO STRUCTURAL PLANS.

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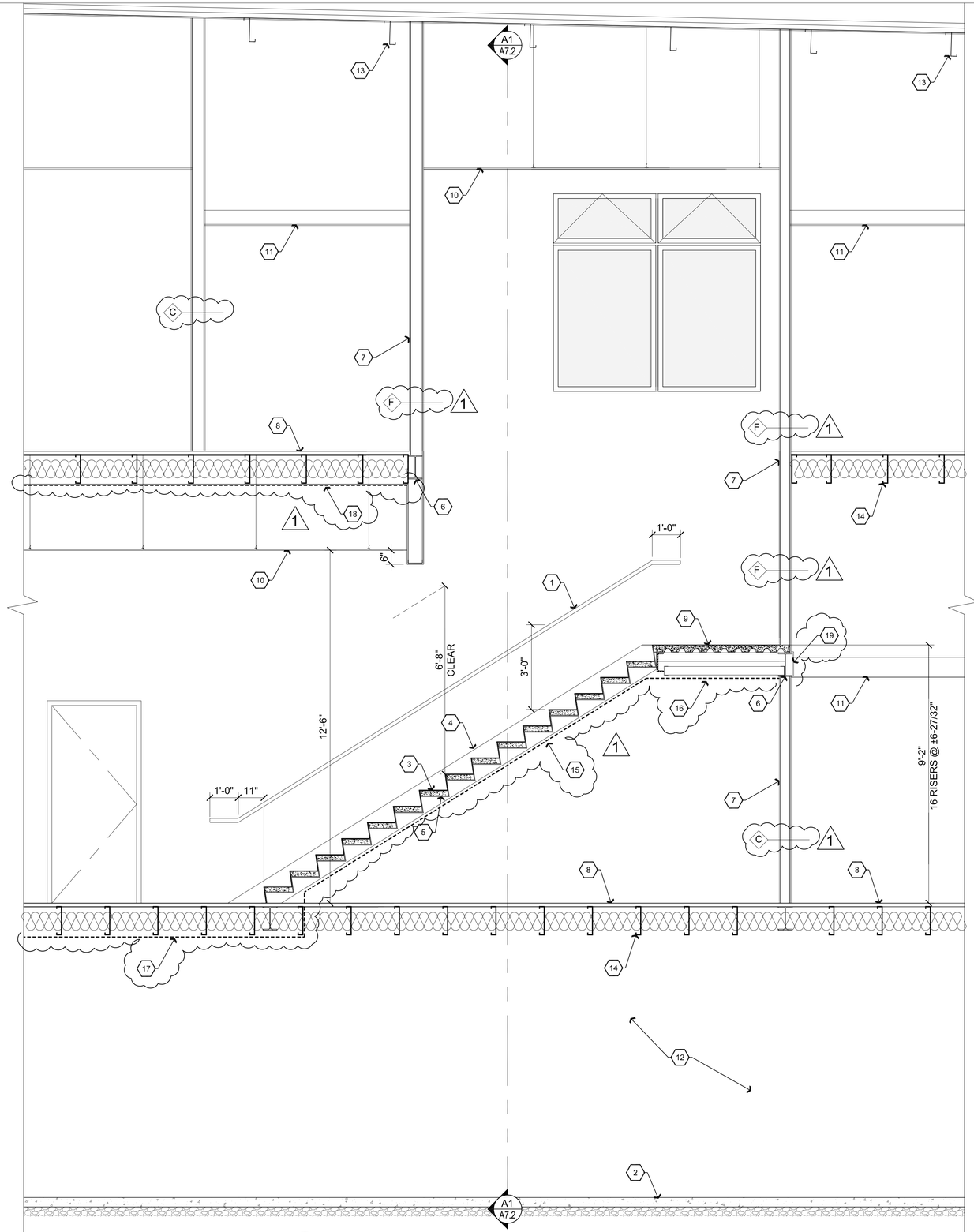
DRAWING: Stair Sections

PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ. 86301

APN: 109-02-035

DRAWN BY: L.O.
CHECKED BY: W.A.K.
DATE: Oct 30th, 2018
JOB NO: 710
SHEET: A7.2

Dec 27, 2018 - 1:13pm



A2 Stair Section

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

Descriptive Keynotes

1. PROVIDE 1-1/2" SCHEDULE 40 PAINTED PIPE STEEL HANDRAIL @ 36" ABOVE STAIR NOSING.
2. CONCRETE SLAB, REFER TO STRUCTURAL PLANS.
3. PROVIDE CONCRETE FILLED METAL PAN STAIR TREAD - REFER TO STRUCTURAL PLANS.
4. PROVIDE STEEL STRINGER - REFER TO STRUCTURAL PLANS.
5. PROVIDE STEEL TREAD / RISERS, REFER TO STRUCTURAL PLANS.
6. PROVIDE STEEL BEAM, REFER TO STRUCTURAL PLANS.
7. INTERIOR WALL, REFER TO WALL TYPES PLAN.
8. PROVIDE FLOOR SHEATHING, REFER TO STRUCTURAL PLANS.
9. PROVIDE CONCRETE FILLED METAL PAN LANDING, REFER TO STRUCTURAL PLANS.
10. ACOUSTICAL PANEL CEILING, REFER TO REFLECTED CEILING PLANS AND MATERIALS SCHEDULE. ACT-1
11. GPDW CEILING, REFER TO REFLECTED CEILING PLANS.
12. CONCRETE WALL, REFER TOT STRUCTURAL PLANS.
13. ROOF PURLIN, REFER TO STRUCTURAL PLANS.
14. FLOOR JOIST, REFER TO STRUCTURAL PLANS.
15. PROVIDE 5/8" TYPE 'X' GPDW OVER 1/2" 16 GA. HAT CHANNEL @ 1'-4" O.C. ATTACHED TO BOTTOM OF METAL STAIR TREADS.
16. PROVIDE 5/8" TYPE 'X' GPDW OVER 3 5/8", 25 GA CEILING JOISTS @ 1'-4" O.C. THIS SHALL OCCUR BELOW INTERMEDIATE STAIR LANDING TO ENSURE 1-HOUR FIRE RATED ENCLOSURE AT EXIT STAIRWAY.
17. PROVIDE 5/8" TYPE 'X' GPDW OVER FLOOR JOIST. THIS SHALL OCCUR BELOW FIRST AND SECOND LEVEL STAIR LANDINGS TO ENSURE A 1-HOUR FIRE RATED ENCLOSURE AT EXIT STAIRWAY.
18. PROVIDE 5/8" TYPE 'X' GPDW OVER FLOOR JOISTS. THIS SHALL OCCUR ABOVE STAIRWAY ENCLOSURE TO ENSURE A 1-HOUR FIRE RATED ENCLOSURE AT EXIT STAIRWAY.
19. PROVIDE 5/8" TYPE 'X' GPDW ON METAL FURRING AT STEEL BEAM.

1

Wall Types Legend

C INTERIOR WALL: PROVIDE 3-5/8" 25 GA. STEEL STUDS AT 2'-0" O.C. WITH 5/8" GPDW ON EXPOSED SIDE. PROVIDE R-11 BATT INSULATION.

F 1 HOUR FIRE RATED WALL: PROVIDE 3-5/8" 25 GA. STEEL STUDS AT 2'-0" O.C. WITH 5/8" TYPE 'X' GPDW ON EACH SIDE. PROVIDE R-11 UNFACED BATT INSULATION.

1

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ARCHITECTURE & PLANNING

DRAWING: Stair Sections

PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ. 86301

APN: 109-02-035

DRAWN BY: L.O.
CHECKED BY: W.A.K.
DATE: Oct 30th, 2018
JOB NO.: 710
SHEET: **A7.3**

Dec 27, 2018 - 1:13pm

GENERAL

SPECIFICATIONS

These Items Must Be Considered By Purchaser

The purchaser must provide the following in accordance with ANSI A17.1 code requirements or local code requirements, whichever are more stringent.

HOISTWAY AND PIT

1. A clear hoistway of the dimensions shown, plumb to within 1".
2. Venting of hoistway as required by code.
3. A dry pit, reinforced to sustain vertical loads as shown.
4. A 30" square hole is to be left in the pit floor, if required for jack installation, and is to be grouted in by others after jack unit is installed.
5. A pit ladder for each elevator of non-combustible material, constructed and installed in accordance with code, and extending from pit floor to 42" above sill of lowest hoistway door.
6. Adequate supports for guide rail brackets, to support horizontal loads as shown. Support locations must not exceed spacing as required by code, and as shown. When maximum spacing is exceeded, rail reinforcement, or additional supports must be provided at purchaser's expense.
7. Guide rail support locations must be steel, brick, concrete, or filled concrete block. If inserts are furnished, these are to be installed by others, in locations shown, as walls are erected. If rail brackets are attached to steel beams, fire-proofing is to be applied AFTER rail brackets are installed.
8. Projections or recesses in the hoistway of 2" or more, on sides not used for loading or unloading, shall be beveled at an angle not less than 75° from the horizontal.
9. A hoist beam, hook, or eyebolt shall be furnished at the top of the hoistway, located on centerline of car and guides - designed for load capacity of # min.
10. Entrance walls accepting passenger type entrances are to be erected (or rough opening as shown filled in) after door frames and sills are installed.
11. A suitable sill support and recess as shown, full width of the hoistway, grouted by others after door sills are installed.
12. Door frames and sills for freight type elevator doors, set square with hoistway and plumb above each other. Door frames to be of sufficient strength to carry loads imposed, and side jambs shall extend to beam above with 2" min. return in hoistway on each side (see door drawings).
13. Required sleeves in hoistway wall, or any trenching and filling, for oil line and wiring duct for each elevator, as shown.
14. Any cutting and patching of building construction required to install signal fixtures, or other elevator apparatus, and any repairs, grouting, patching, or painting made necessary by same.
15. Barricades as may be required during construction.

MACHINE ROOM

16. A machine room properly lighted and ventilated per code requirements with temperature maintained between 65°-95°. Door of size to permit access for hydraulic machine, to be self closing and locking, but openable from inside without key.

ELECTRICAL

All electrical in accordance with ANSI and NEC.

17. A fused disconnect switch for each elevator, of ample capacity, with wiring to the elevator motor starter control. Disconnecting means shall disconnect the normal power supply as well as emergency supply, when provided.
18. Light and switch in elevator machine room, with switch located adjacent to access door. Convenience outlet in machine room.
19. Light, switch and convenience outlet in elevator pit, light switch accessible from lower landing opening. Install light to clear elevator car.
20. Suitable 110V service in the hoistway, midway of travel (see layout) or connected to terminals in elevator controller for car light service (elevator contractors option).
21. Heat, and product of combustion sensors located in each elevator lobby with necessary wiring to elevator control panel, when fire service is specified.
22. Telephone instrument in elevator car, and wiring from building source to elevator control panel.
23. Furnishing of any special intercom, paging, or television systems, including wiring from building source to elevator control panel.
24. Necessary power for installing, erecting, and testing, without charge.
25. Any features or equipment required, but not specifically specified as being furnished by elevator contractor.
26. A safe and dry space to store elevator equipment and tools before and during construction.

CANTON ELEVATOR INCORPORATED

SPECIFICATIONS *Elevator Motor Ratings*

SUBMERSIBLE

LOW FLOW SUBMERSIBLE ELEVATOR MOTOR RATINGS

	HP	VOLTS	FLA	LRA[1]
SINGLE PHASE	3	208-230	20.0-16.4	74
	5	208-230	23.4-21.0	104
	7.5	208-230	32.6-30.0	174
	10	208-230	43.0-40.0	237
THREE PHASE	5	208	14	48.25
	5	230/460	13.0/6.5	42.00
	7.5	208	21.5	66.25
	7.5	230/460	20.0/10.0	57.00
	10	208	26	86.50
	10	230/460	24.0/12.0	78.00

STANDARD SUBMERSIBLE ELEVATOR MOTOR RATINGS

	HP	VOLTS	FLA	LRA[1]
THREE PHASE	15	200	46	241
	15	230	40	210
	15	460	20	105
	15	575	16	84
	20	200	60	299
	20	230	52	260
	20	460	26	130
	20	575	21	104
	25	200	75	380
	25	230	66	330
	25	460	33	165
	25	575	27	132
	30	200	85	494
	30	230	74	430
	30	460	37	215
	30	575	29.6	172
	40	200	112	644
	40	230	98	560
	40	460	49	280
	40	575	40	224
	50	200	133	748
	50	230	116	650
	50	460	58	325
	50	575	46.5	260
	60	230	140	720
	60	460	70	360
	60	575	56	288
	75	230	178	840
	75	460	89	420
	75	575	71.5	336

[1]Across the line; single phase at 230 volt, three phase at 460 volt.

BELT DRIVE

BELT DRIVE MOTOR RATINGS

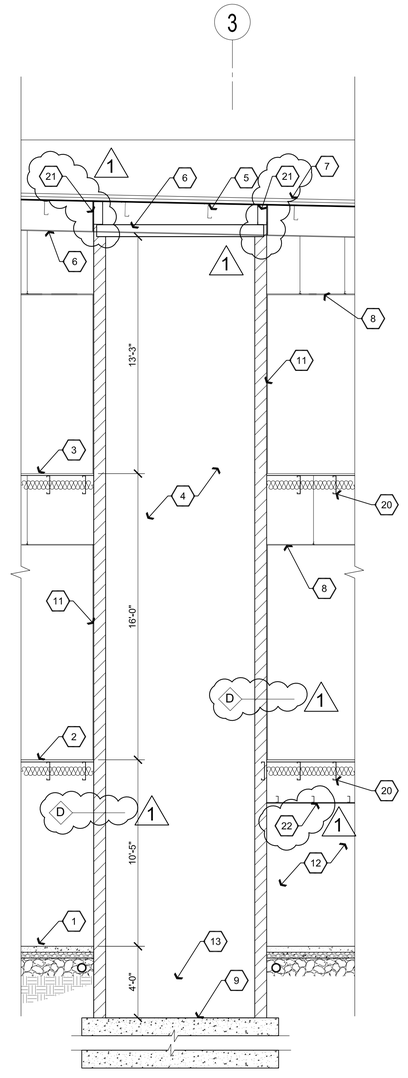
HP	VOLTS	FLA	LRA
5	200	16	'04
5	230/460	14.4/7.2	45
7.5	200	23	'22
7.5	230/460	20/10	53
10	200	30	'94
10	230/460	26/13	84
15	200	44	279
15	230/460	38/19	'21
20	200	57	333
20	230/460	50/25	'45
25	200	70	438
25	230/460	62/31	'90
30	200	82	500
30	230/460	72/36	217
40	200	108	702
40	230/460	94/47	305
50	200	149	1035
50	230/460	130/65	448
60	200	165	1325
60	230/460	144/72	576
75	200	200	1385
75	230	180	1200
75	460	90	600
100	460	113	690

For dual voltage ratings LRA are given for 460 voltage.
LRA are given for across the line starting.
Starting amps are .33 times LRA when starting on wye start – delta run. (Typical data)

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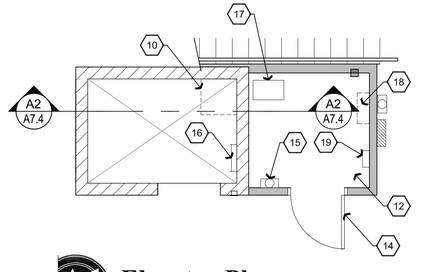
CE-13 LITHO IN U.S.A 10/07

ELEVATOR TO BE TRADESMAN
PASSENGER ELEVATOR
CANTON MODEL #2503H



A2 Elevator Section

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



A1 Elevator Plan

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

Descriptive Keynotes

1. BASEMENT, FINISH FLOOR.
2. FIRST FLOOR, FINISH FLOOR.
3. SECOND FLOOR, FINISH FLOOR.
4. ELEVATOR SHAFT.
5. ROOF PURLIN, REFER TO STRUCTURAL PLANS.
6. BEAM, REFER TO STRUCTURAL PLANS.
7. SOPREMA SBS MODIFIED BITUMEN ROOFING SYSTEM, REFER TO ROOF DETAILS AND MATERIALS SCHEDULE. RF-1
8. ACOUSTICAL PANEL CEILING, REFER TO REFLECTED CEILING PLANS AND MATERIALS SCHEDULE. ACT-1
9. PROVIDE CONCRETE SLAB / FOOTING, REFER TO STRUCTURAL PLANS.
10. SUMP PUMP RECESS, REFER TO PLUMBING PLANS.
11. PROVIDE CMU WALL, REFER TO WALL TYPES PLAN AND MATERIALS SCHEDULE. CMU-1
12. ELEVATOR EQUIPMENT ROOM.
13. ELEVATOR PIT.
14. PROVIDE DOOR, REFER TO REFERENCE FLOOR PLAN AND DOOR SCHEDULE.
15. PROVIDE FIRE EXTINGUISHER IN ACCORDANCE WITH STATE ELEVATOR REQUIREMENTS AND MATERIALS SCHEDULE. FE-1 FEB-1
16. PROVIDE ELEVATOR LADDER IN ACCORDANCE WITH STATE ELEVATOR REQUIREMENTS.
17. ELEVATOR MACHINE.
18. MINI SPLIT, REFER TO MECHANICAL PLANS.
19. ELEVATOR ELECTRICAL PANEL, REFER TO ELECTRICAL PLANS.
20. FLOOR JOIST, REFER TO STRUCTURAL PLANS.
21. PROVIDE 1 LAYER OF 5/8" TYPE 'X' GPDW ON BOTH SIDES OF 25 GA. METAL STUDS @ 1'-4" O.C.
22. PROVIDE 5/8" TYPE 'X' GPDW OVER 3 5/8", 25 GA. CEILING JOISTS @ 1'-4" O.C.

1

Wall Types Legend

D INTERIOR WALL: PROVIDE 8" CMU WALL WITH 1-5/8", 25 GAUGE STEEL STUDS AT 2'-0" O.C. WITH 5/8" GPDW ON EXTERIOR SIDE OF SHAFT. 1 HR FIRE WALL PER IBC2012 TABLE 721.1 (2) ITEM NUMBER 3-1.3f

1

ELEVATOR, SHAFT AND EQUIPMENT ROOM SHALL COMPLY WITH THE ARIZONA STATE ELEVATOR REQUIREMENTS

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REGISTERED ARCHITECT CERTIFICATE NO. 25646 W. ALAN KENSON Date Signed 11/01/18 ARIZONA EXPIRES: 6/30/21

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ARCHITECTURE & PLANNING

DRAWING: Elevator Plan / Section

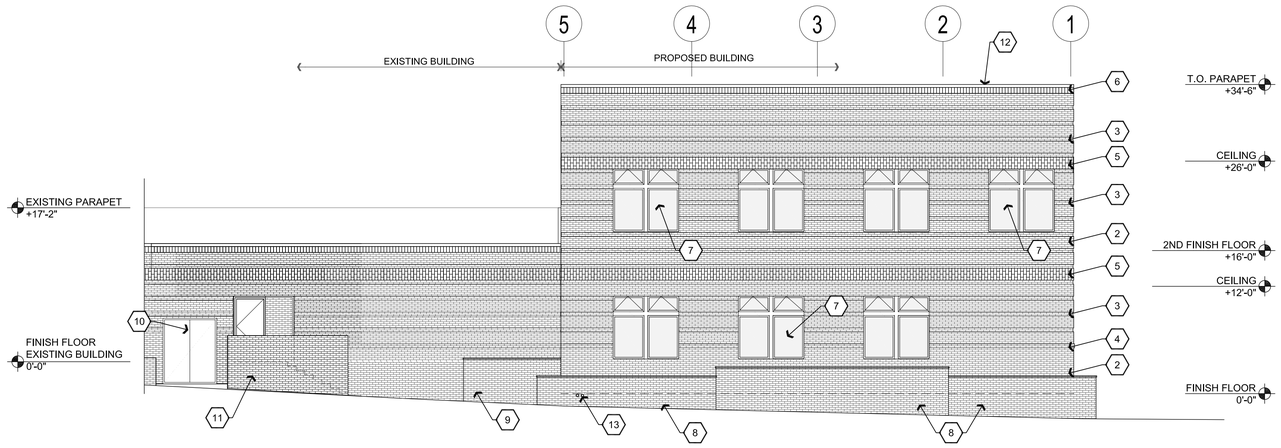
PROJECT: Sharlot Hall Education Center Addition
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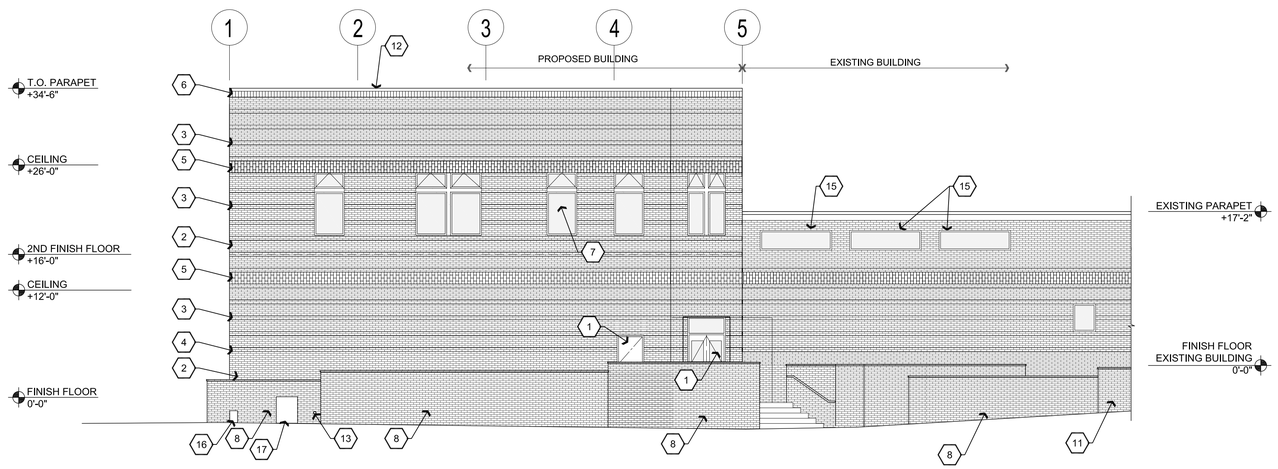
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Dec 27, 2018 - 2:25pm



A2 South Elevation

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



A1 North Elevation

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

Descriptive Keynotes

1. PROVIDE EXTERIOR DOOR, REFER TO REFERENCE FLOOR PLAN AND DOOR SCHEDULE.
2. PROVIDE 3-5/8"x2-1/4"x7-5/8" STANDARD SMOOTH BRICK VENEER TO MATCH EXISTING BUILDING, TYPICAL, REFER TO MATERIALS PLAN. BV-1
3. PROVIDE 1/2" RECESSED BRICK VENEER BAND CONTINUOUS AROUND BUILDING TO MATCH EXISTING BUILDING, TYPICAL. BV-1
4. PROVIDE 1/2" EXTENDED BRICK VENEER BAND CONTINUOUS AROUND BUILDING TO MATCH EXISTING BUILDING. BV-1
5. PROVIDE DOUBLE SOLDIER BRICK BAND CONTINUOUS AROUND BUILDING TO MATCH EXISTING BUILDING. BV-1
6. PROVIDE SINGLE SOLDIER BRICK BAND CONTINUOUS AROUND BUILDING TO MATCH EXISTING BUILDING. BV-1
7. PROVIDE EXTERIOR WINDOW, TYPICAL. REFER TO REFERENCE FLOOR PLAN AND WINDOW TYPES.
8. PROVIDE BRICK VENEER OVER 6" CMU RETAINING WALL/PLANTER, REFER TO ARCHITECTURAL SITE PLAN, MATERIALS SCHEDULE AND CIVIL PLANS FOR TOP OF WALL ELEVATION. BV-1 CMU-1
9. PROVIDE BRICK VENEER OVER 6" CMU. WALL TO MATCH EXISTING, REFER TO ARCHITECTURAL SITE PLAN, MATERIALS SCHEDULE AND CIVIL PLANS FOR TOP OF WALL ELEVATION. BV-1 CMU-1
10. PROVIDE ELECTRICAL SERVICE ENTRANCE SECTION, REFER TO ELECTRICAL PLANS.
11. EXISTING BRICK WALL TO REMAIN.
12. PROVIDE METAL PARAPET CAP, REFER TO ROOF DETAILS AND MATERIALS SCHEDULE. PC-1
13. PROVIDE ROOF DRAIN LEADERS OUTLET LOCATION, REFER TO PLUMBING PLANS.
14. EXISTING DOOR.
15. EXISTING WINDOW.
16. NATURAL GAS METER / REGULATOR.
17. DOMESTIC WATER 'HOT BOX'.

REVISIONS	BY

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REGISTERED ARCHITECT
CERTIFICATE NO.
25646
W. ALAN KENSON
Date Signed 11/01/18
ARIZONA
EXPIRES: 6/30/21

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ARCHITECTURE & PLANNING

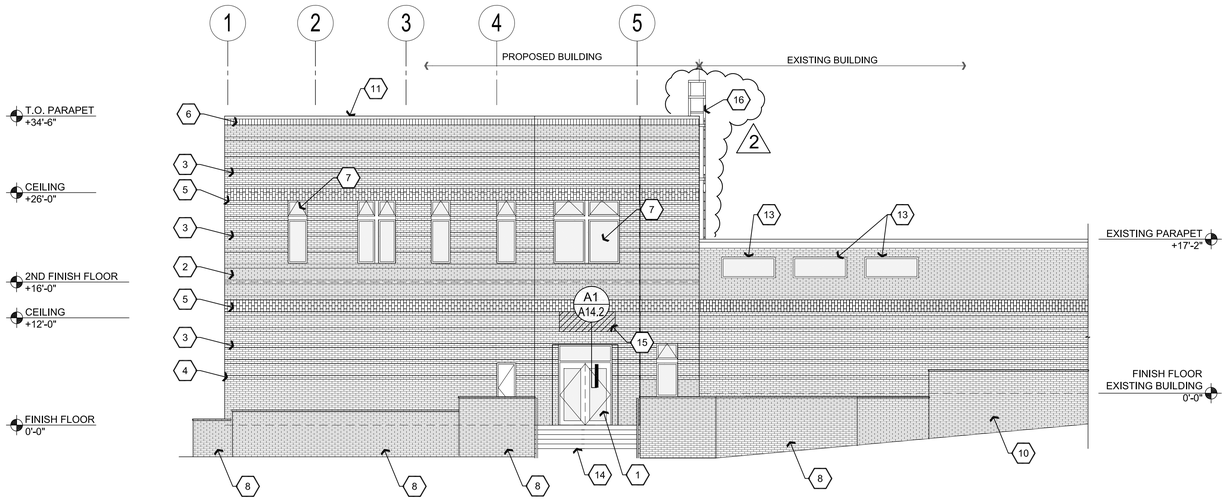
DRAWING: Exterior Elevations

PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ. 86301

APN: 109-02-035

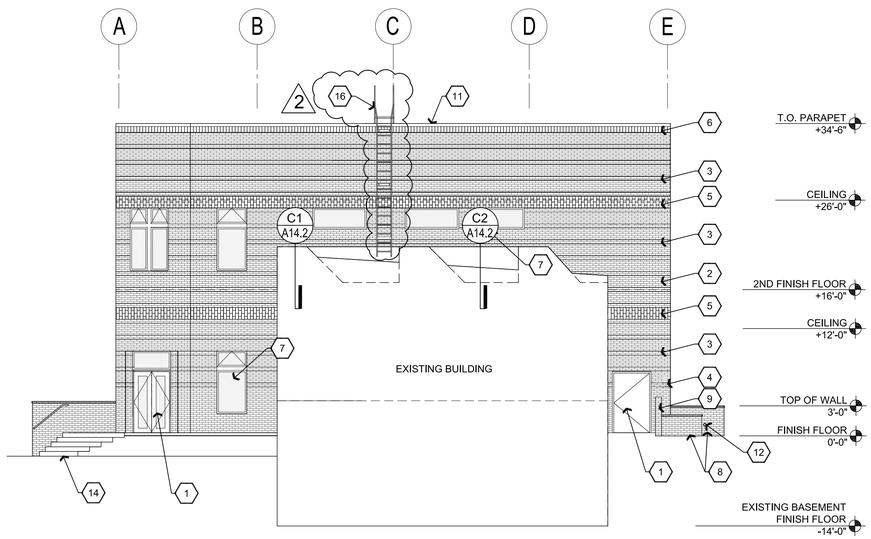
DRAWN BY	L.O.
CHECKED BY	W.A.K.
DATE	Oct 30th, 2018
JOB NO.	710
SHEET	A8.0

Nov 01 - 2018 - 11:38am



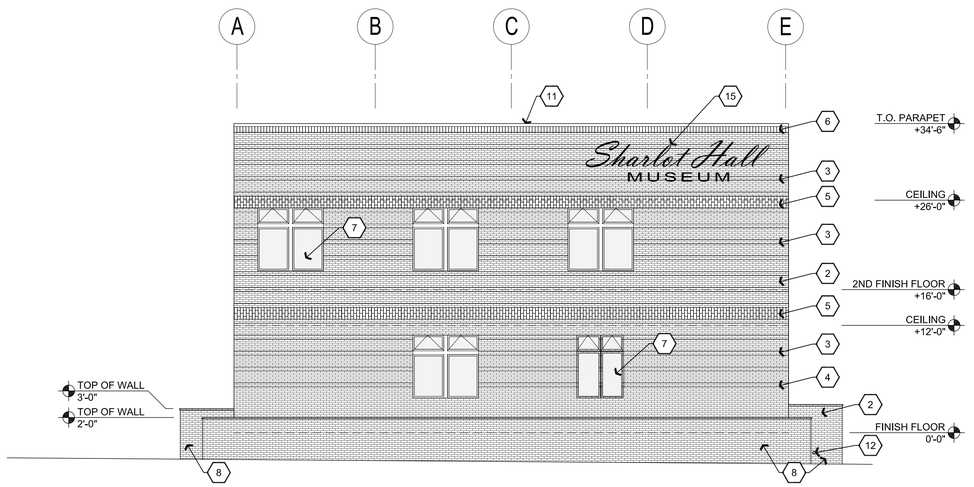
A2 North West Elevation

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



A1 West Elevation

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



B1 East Elevation

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

Descriptive Keynotes

1. PROVIDE EXTERIOR DOOR, REFER TO REFERENCE FLOOR PLAN AND DOOR SCHEDULE.
2. PROVIDE 3-5/8"x2-1/4"x7-5/8" STANDARD SMOOTH BRICK VENEER TO MATCH EXISTING BUILDING, TYPICAL, REFER TO MATERIALS PLAN. BV-1
3. PROVIDE 1/2" RECESSED BRICK VENEER BAND CONTINUOUS AROUND BUILDING TO MATCH EXISTING BUILDING, TYPICAL. BV-1
4. PROVIDE 1/2" EXTENDED BRICK VENEER BAND CONTINUOUS AROUND BUILDING TO MATCH EXISTING BUILDING. BV-1
5. PROVIDE DOUBLE SOLDIER BRICK BAND CONTINUOUS AROUND BUILDING TO MATCH EXISTING BUILDING. BV-1
6. PROVIDE SINGLE SOLDIER BRICK BAND CONTINUOUS AROUND BUILDING TO MATCH EXISTING BUILDING. BV-1
7. PROVIDE EXTERIOR WINDOW, TYPICAL. REFER TO REFERENCE FLOOR PLAN AND WINDOW TYPES.
8. PROVIDE BRICK VENEER OVER 6" CMU RETAINING WALL/PLANTER, REFER TO ARCHITECTURAL SITE PLAN, MATERIALS SCHEDULE AND CIVIL PLANS FOR TOP OF WALL ELEVATION. BV-1 CMU-1
9. PROVIDE BRICK VENEER OVER 6" CMU. WALL TO MATCH EXISTING, REFER TO ARCHITECTURAL SITE PLAN, MATERIALS SCHEDULE AND CIVIL PLANS FOR TOP OF WALL ELEVATION. BV-1 CMU-1
10. EXISTING BRICK WALL TO REMAIN.
11. PROVIDE METAL PARAPET CAP, REFER TO ROOF DETAILS AND MATERIALS SCHEDULE. PC-1
12. PROVIDE ROOF DRAIN LEADERS OUTLET LOCATION, REFER TO PLUMBING PLANS.
13. EXISTING WINDOW.
14. CONCRETE ENTRY STAIRS, REFER TO ARCHITECTURAL SITE PLAN.
15. SIGNAGE BY OWNER UNDER SEPARATE PERMIT.
16. PROVIDE FIXED WALL LADDER WITH CROSSOVER PLATFORM FROM EXISTING ROOF TO NEW ROOF.

REVISIONS		BY
2	CITY COMMENTS 1-22-2019	LO

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ARCHITECTURE & PLANNING

DRAWING: Exterior Elevations

PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ, 86301

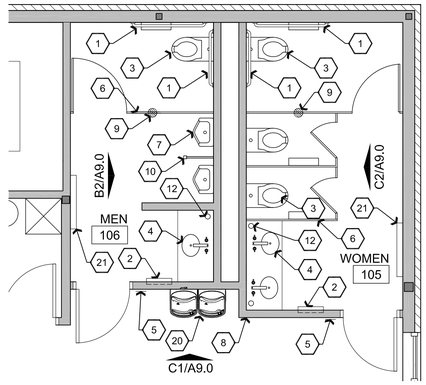
APN: 109-02-035

DRAWN BY	L.O.
CHECKED BY	W.A.K.
DATE	Oct 30th, 2018
JOB NO.	710
SHEET	A8.1

Jan 28, 2019 - 1:26pm

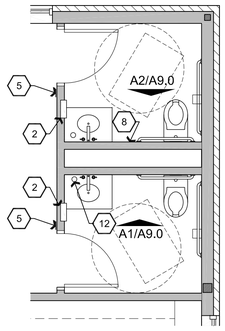
Toilet Accessory Schedule ##-#

CODE	FIXTURE	DESCRIPTION	MANUFACTURER	MODEL	COLOR
TA-1	HAND SOAP DISPENSER	COUNTER MOUNTED	BOBRICK	B8221	BRIGHT POLISHED
TA-2	PAPER TOWEL DISPENSER (1st FLOOR)	RECESSED W/ TRASH	BOBRICK	B-3944	STAINLESS STEEL
TA-3	PAPER TOWEL DISPENSER (2nd FLOOR)	RECESSED	BOBRICK	B-359033	STAINLESS STEEL
TA-4	SANITARY NAPKIN RECEPTACLE	SURFACE MOUNTED	BOBRICK	B-35139	STAINLESS STEEL
TA-5	GRAB BARS 42", 36", 18"	1 1/4" DIAMETER	BOBRICK	B-5806	STAINLESS STEEL
TA-6	TOILET SEAT COVER DISPENSER	HALF FOLD	BOBRICK	B-221	STAINLESS STEEL
TA-7	TOILET PAPER DISPENSER (1st FLOOR)	TWIN 10" JUMBO	BOBRICK	B-2892	STAINLESS STEEL
TA-8	TOILET PAPER DISPENSER (2nd FLOOR)	SINGLE 10" JUMBO	BOBRICK	B-2890	STAINLESS STEEL
TA-9	BABY CHANGING STATION	SURFACE MOUNTED	KOALA KARE	KB200	CREAM 00
TP-1	TOILET PARTITION	POWDER COATED	METPAR		DESERT TAN #500



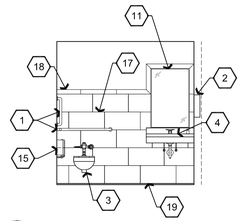
C3 Restroom Plan

Scale: 1/4"=1'-0" North



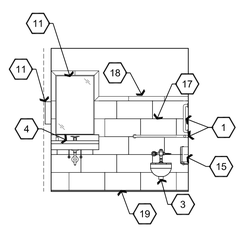
A3 Restroom Plan

Scale: 1/4"=1'-0" North



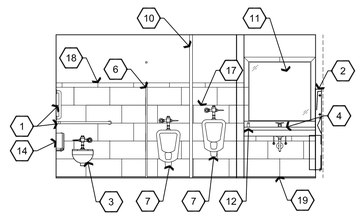
A2 Restroom Elevation

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



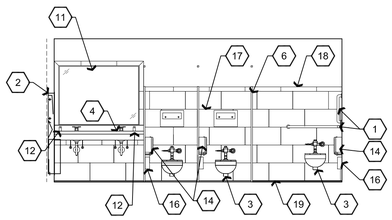
A1 Restroom Elevation

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



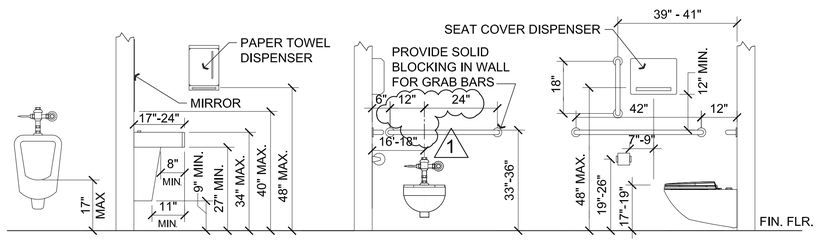
B2 Restroom Elevation

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



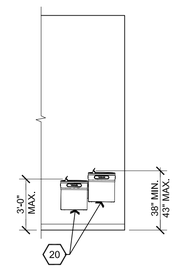
C2 Restroom Elevation

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



B1 Typical Fixture Mounting Heights for ADA

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



C1 Drinking Fountain Elevation

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

Descriptive Keynotes

1. PROVIDE 1-1/2" DIAMETER GRAB BARS PER A.D.A. REQUIREMENTS, 42" LONG AT SIDE OF WATER CLOSET / 36" LONG AT REAR OF WATER CLOSET / 18" VERTICAL GRAB BAR, PROVIDE SOLID BLOCKING. REFER TO TOILET ACCESSORY SCHEDULE. TA-5
2. PROVIDE PAPER TOWEL DISPENSER, REFER TO TOILET ACCESSORY SCHEDULE. TA-2 TA-3
3. PROVIDE WALL MOUNTED WATER CLOSET, REFER TO PLUMBING DRAWINGS.
4. PROVIDE INTEGRAL LAVATORY IN SOLID SURFACE COUNTERTOP, INSULATE PIPES, REFER TO PLUMBING DRAWINGS.
5. PROVIDE ACCESSIBILITY SIGNAGE MOUNTED PER A.D.A. REQUIREMENTS.
6. PROVIDE HEAD RAIL-BRACED TOILET PARTITION. TP-1
7. PROVIDE WALL HUNG URINAL, REFER TO PLUMBING PLANS.
8. INTERIOR WALL - REFER TO WALL TYPES PLAN.
9. PROVIDE FLOOR DRAIN, REFER TO PLUMBING PLANS.
10. PROVIDE 2"x2" FLOOR TO CEILING URINAL SCREEN POST.
11. PROVIDE 1/4" PLATE MIRROR.
12. PROVIDE SURFACE MOUNTED HAND SOAP DISPENSER, REFER TO TOILET ACCESSORY SCHEDULE. TA-1
13. PROVIDE SURFACE MOUNTED TOILET SEAT COVER DISPENSER, REFER TO TOILET ACCESSORY SCHEDULE. TA-6
14. PROVIDE TOILET PAPER DISPENSER, REFER TO TOILET ACCESSORY SCHEDULE. TA-7
15. PROVIDE TOILET PAPER DISPENSER, REFER TO TOILET ACCESSORY SCHEDULE. TA-8
16. PROVIDE SANITARY NAPKIN RECEPTACLE, REFER TO TOILET ACCESSORY SCHEDULE. TA-4
17. PROVIDE CERAMIC TILE, REFER TO MATERIALS SCHEDULE. CT-3
18. PROVIDE CERAMIC TILE BULLNOSE, REFER TO MATERIALS SCHEDULE. CT-4
19. PROVIDE INSIDE CORNER SCHLUTER TRIM.
20. HIGH / LOW DRINKING FOUNTAINS, REFER TO PLUMBING PLANS.
21. PROVIDE BABY CHANGING STATION, REFER TO TOILET ACCESSORY SCHEDULE. TA-9

REVISIONS		BY
1	CITY COMMENTS 12-10-2018	LO

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REGISTERED ARCHITECT CERTIFICATE NO. 25646 W. ALAN KENSON Date Signed 11/01/18 ARIZONA EXPIRES: 6/30/21

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ARCHITECTURE & PLANNING

DRAWING: Restroom Plan and Interior Elevations

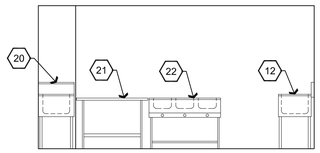
PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ. 86301

APN: 109-02-035

DRAWN BY: L.O.
CHECKED BY: W.A.K.
DATE: Oct 30th, 2018
JOB NO. 710
SHEET

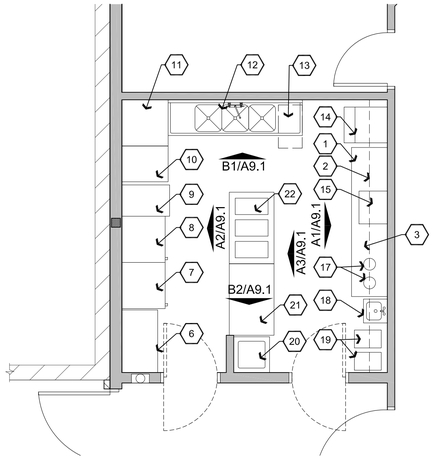
A9.0

Dec 27, 2018 - 1:14pm



A3 Warming Kitchen West Elevation

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



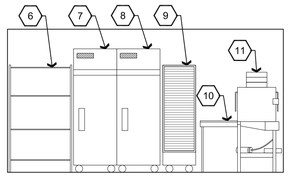
B3 Warming Kitchen Plan

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

North

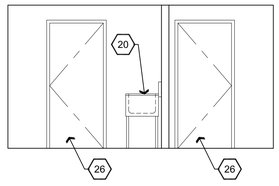
Descriptive Keynotes

1. PROVIDE PLASTIC LAMINATE BASE CABINETRY. PL-2
2. PROVIDE PLASTIC LAMINATE UPPER CABINETRY. PL-2
3. PROVIDE SOLID SURFACE COUNTERTOP. SS-1
4. PROVIDE 4" SOLID SURFACE BACKSPLASH. SS-1
5. PROVIDE FINISHED PANEL AS REQUIRED. PL-1
6. STORAGE RACK PROVIDED BY OWNER.
7. FREEZER PROVIDED BY OWNER.
8. REFRIGERATOR PROVIDED BY OWNER.
9. HEATER / PROOFER PROVIDED BY OWNER.
10. STAINLESS STEEL DISH TABLE PROVIDED BY OWNER.
11. DISHWASHER PROVIDED BY OWNER.
12. 3 COMPARTMENT SINK PROVIDED BY OWNER.
13. PROVIDE FLOOR RECESSED GREASE TRAP, REFER TO PLUMBING PLANS.
14. ICE MACHINE PROVIDED BY OWNER.
15. MICROWAVE PROVIDED BY OWNER.
16. PROVIDE MICRO SHELF CABINETRY.
17. COFFEE PODS PROVIDED BY OWNER.
18. HAND WASH SINK PROVIDED BY OWNER.
19. TRASH AND RECYCLE BINS PROVIDED BY OWNER.
20. VEGETABLE SINK PROVIDED BY OWNER.
21. WORK TABLE PROVIDED BY OWNER.
22. THREE COMPARTMENT STEAM TABLE PROVIDED BY OWNER.
23. PROVIDE OPEN SHELVING.
24. PLASTIC LAMINATE BASE CABINETRY. PL-1
25. PLASTIC LAMINATE UPPER CABINETRY. PL-1
26. INTERIOR DOOR, REFER TO REFERENCE PLAN AND DOOR SCHEDULE.



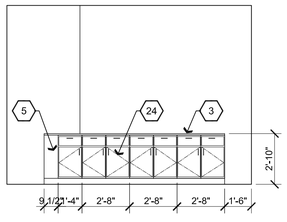
A2 Warming Kitchen West Elevation

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



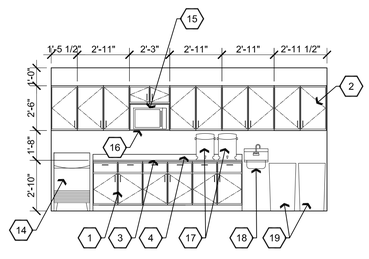
B2 Warming Kitchen South Elevation

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



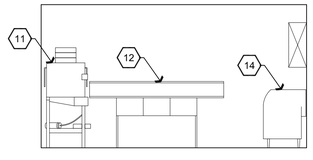
C2 Classroom 205 East Elevation

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



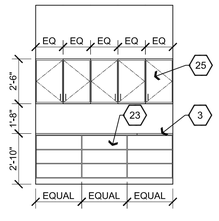
A1 Warming Kitchen East Elevation

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



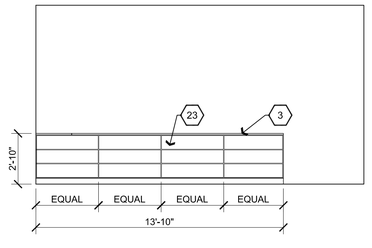
B1 Warming Kitchen North Elevation

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



C1 Storage / Copy East Elevation

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



D1 Storage / Copy South Elevation

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

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ARCHITECTURE & PLANNING

DRAWING: WARMING KITCHEN Plan and Interior Elevations

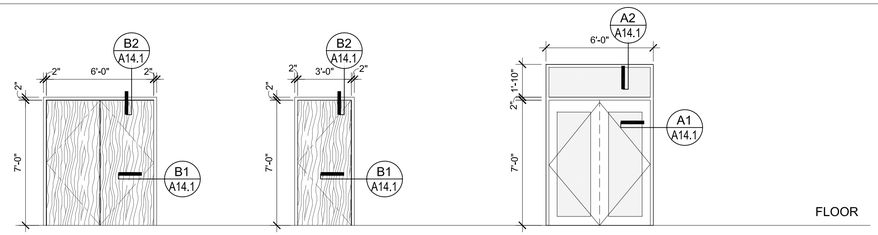
PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ, 86301

APN: 109-02-035

DRAWN BY: L.O.
CHECKED BY: W.A.K.
DATE: Oct 30th, 2018
JOB NO.: 710
SHEET:

A9.1

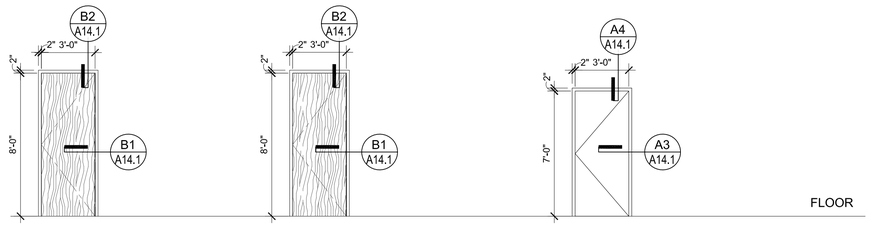
Nov 01, 2018 - 11:37am



A VT INDUSTRIES 5502H SOLID CORE VENEER FINISH PROFILE: CHERRY RAVINE RA18, IN 14 GAUGE HOLLOW METAL FRAME

B 1 HR. FIRE RATED VT INDUSTRIES 5502H SOLID CORE VENEER FINISH PROFILE: CHERRY RAVINE RA18, IN 14 GAUGE HOLLOW METAL FRAME

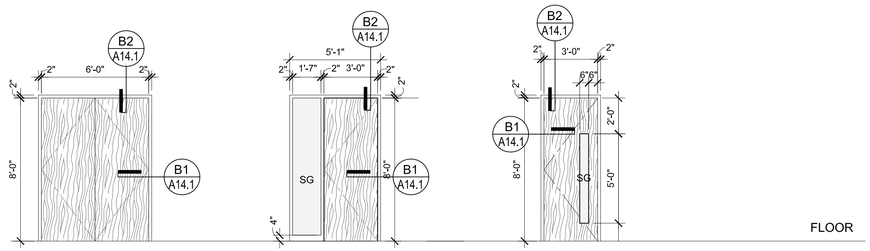
C BRONZE ANODIZED ALUMINUM STOREFRONT MEDIUM STILE FRAME AND INSULATED SAFETY GLASS DOOR



D VT INDUSTRIES 5502H SOLID CORE VENEER FINISH PROFILE: CHERRY RAVINE RA18, IN 14 GAUGE HOLLOW METAL FRAME

E 1 HOUR FIRE RATED DOOR. VT INDUSTRIES 1P45H SOLID CORE VENEER FINISH PROFILE: CHERRY RAVINE RA18, IN 14 GAUGE HOLLOW METAL FRAME

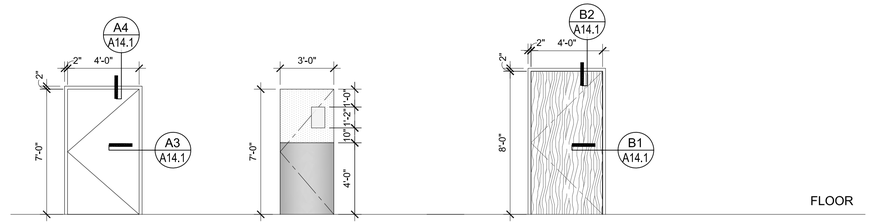
F 16 GAUGE HOLLOW METAL DOOR WITH 14 GAUGE HOLLOW METAL FRAME



G VT INDUSTRIES 5502H SOLID CORE VENEER FINISH PROFILE: CHERRY RAVINE RA18, IN 14 GAUGE HOLLOW METAL FRAME

H VT INDUSTRIES 5502H SOLID CORE VENEER FINISH PROFILE: CHERRY RAVINE RA18, IN 14 GAUGE HOLLOW METAL FRAME

I VT INDUSTRIES 5502H SOLID CORE DOOR WITH LITE KIT VENEER FINISH PROFILE: CHERRY RAVINE RA18, IN 14 GAUGE HOLLOW METAL FRAME



J 16 GAUGE HOLLOW METAL DOOR WITH 14 GAUGE HOLLOW METAL FRAME

K ELIASON HIGH PRESSURE LAMINATE TRAFFIC DOOR SCP-8 DARK CHOCOLATE NO FRAME - DRYWALL ONLY

L VT INDUSTRIES 5502H SOLID CORE VENEER FINISH PROFILE: CHERRY RAVINE RA18, IN 14 GAUGE HOLLOW METAL FRAME

A1 Door Types

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

Door Schedule

NO.	ROOM NAME	SIZE	TYPE	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	HARDWARE TYPE REFER TO SHEET 10.1	COMMENTS
001A	STORAGE	(2) 3'-0"x7'-0"	A	SCWD	STAIN	HM	PAINT	1	
002A	ELEVATOR EQUIPMENT	3'-0"x7'-0"	B	SCWD	STAIN	HM	PAINT	2	1 HR FIRE RATED
100A	LOBBY	(2) 3'-0"x7'-0"	C	GLASS	ANODIZED BRONZE	ALUMINUM	ANODIZED BRONZE	3	EXTERIOR
101A	STAIRWAY	3'-0"x8'-0"	D	SCWD	STAIN	HM	PAINT	4	
102A	STAIRWAY	3'-0"x8'-0"	E	SCWD	STAIN	HM	PAINT	5	1 HR FIRE RATED
102B	STAIRWAY	3'-0"x7'-0"	F	HM	PAINT	HM	PAINT	6	EXTERIOR
104A	JANITOR	3'-0"x8'-0"	D	SCWD	STAIN	HM	PAINT	4	
105A	WOMEN'S RESTROOM	3'-0"x8'-0"	D	SCWD	STAIN	HM	PAINT	7	
106A	MEN'S RESTROOM	3'-0"x8'-0"	D	SCWD	STAIN	HM	PAINT	7	
108A	CORRIDOR	4'-0"x7'-0"	J	HM	PAINT	HM	PAINT	9	EXTERIOR
109A	WARMING KITCHEN	3'-0"x7'-0"	K	SCWD	PAINT	HM	PAINT		TRAFFIC DOOR w/ HOLD OPEN HARDWARE
109B	WARMING KITCHEN	3'-0"x7'-0"	K	SCWD	STAIN	HM	PAINT		TRAFFIC DOOR w/ HOLD OPEN HARDWARE
110A	STORAGE	3'-0"x8'-0"	D	SCWD	STAIN	HM	PAINT	8	
111A	AV	3'-0"x8'-0"	D	SCWD	STAIN	HM	PAINT	8	
112A	AUDITORIUM	(2) 3'-0"x8'-0"	G	SCWD	STAIN	HM	PAINT	11	
112B	AUDITORIUM	4'-0"x8'-0"	L	SCWD	STAIN	HM	PAINT	10	
202A	JANITOR / STORAGE	3'-0"x8'-0"	D	SCWD	STAIN	HM	PAINT	4	
203A	WOMEN'S RESTROOM	3'-0"x8'-0"	D	SCWD	STAIN	HM	PAINT	12	
204A	MEN'S RESTROOM	3'-0"x8'-0"	D	SCWD	STAIN	HM	PAINT	12	
205A	CONFERENCE ROOM	3'-0"x8'-0"	D	SCWD	STAIN	HM	PAINT	13	
206A	OFFICE	3'-0"x8'-0"	H	SCWD	STAIN	HM	PAINT	13	
207A	OFFICE	3'-0"x8'-0"	H	SCWD	STAIN	HM	PAINT	13	
208A	OFFICE	3'-0"x8'-0"	H	SCWD	STAIN	HM	PAINT	13	
209A	OFFICE	3'-0"x8'-0"	I	SCWD	STAIN	HM	PAINT	13	
210A	OFFICE	3'-0"x8'-0"	H	SCWD	STAIN	HM	PAINT	13	
211A	OFFICE	3'-0"x8'-0"	H	SCWD	STAIN	HM	PAINT	13	
212A	OFFICE	3'-0"x8'-0"	I	SCWD	STAIN	HM	PAINT	13	
213A	STORAGE / COPY RM	3'-0"x8'-0"	H	SCWD	STAIN	HM	PAINT	13	
216A	OFFICE	3'-0"x8'-0"	H	SCWD	STAIN	HM	PAINT	13	
217A	STAIRWAY	3'-0"x8'-0"	E	SCWD	STAIN	HM	PAINT	14	1 HR FIRE RATED
218A	STORAGE	3'-0"x8'-0"	D	SCWD	STAIN	HM	PAINT	13	
219A	STORAGE	3'-0"x8'-0"	D	SCWD	STAIN	HM	PAINT	13	

DOOR NOTES:

1. ALL EXIT DOORS & HARDWARE SHALL COMPLY WITH THE 2012 I.B.C.
2. DOOR THRESHOLDS SHALL HAVE A MAX HEIGHT OF 1/2" FOR H.C. ACCESSIBILITY. THRESHOLD SHALL HAVE A MAXIMUM RISE OF 1/4" AND 1/2" RISE WHEN BEVELED WITH MAXIMUM 1:2 SLOPE.
3. ALL GLAZING IN DOORS SHALL BE SAFETY GLAZING.
4. ALL INTERIOR DOORS SHALL BE OPERABLE FOR EMERGENCY EXITING PURPOSES WITHOUT THE USE OF A KEY, SPECIAL KNOWLEDGE NOR EFFORT.
5. ALL GLAZING WITHIN 24" OF OPENINGS SHALL BE SAFETY GLASS.
6. IF A DOOR HAS A CLOSER, THEN THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3" FROM THE LATCH, MEASURED TO THE LEADING EDGE OF THE DOOR.
7. DOOR HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. HARDWARE REQUIRED FOR DOOR PASSAGE SHALL BE MOUNTED NO HIGHER THAN 48" ABOVE FINISH FLOOR.
8. DOOR OPENING FORCE SHALL BE: 5lbf MAX INTERIOR HINGED, SLIDING OR FOLDING DOORS; FIRE DOORS SHALL HAVE THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY.

NOTE:
SG = SAFETY GLAZING
REFER TO 2012 IBC FOR ADDITIONAL SAFETY GLAZING REQUIREMENTS.

NOTE:
ALL GLAZING WITHIN 24" OF OPENINGS
SHALL BE SAFETY GLAZING

Nov 01, 2018 - 11:37am

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REGISTERED ARCHITECT
CERTIFICATE NO.
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W. ALAN KENSON
Date Signed 11/01/18
ARIZONA
EXPIRES: 6/30/21

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ARCHITECTURE & PLANNING

DRAWING: Door Types and Schedule

PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ. 86301

APN: 109-02-035

DRAWN BY	L.O.
CHECKED BY	W.A.K.
DATE	Oct 30th, 2018
JOB NO.	710
SHEET	A10.0

SHARLOT HALL EDUCATION CENTER ADDITION
DOOR HARDWARE SCHEDULE

HW-1 PAIR, SCW X HMF - TAG 001A
EACH DOOR TO HAVE

QTY	DESCRIPTION		MANUFACTURER
6	HINGE 5BB1 4.5 X 4.5	652	IVES
1	STOREROOM AL80RD X SAT	626	SCHLAGE
1	CLOSER 4040XP H CUSH AT ACTIVE LEAF ONLY	689	LCN
1	OH HOLD OPEN 454H	626	GLYNN-JOHNSON
2	FLUSH BOLTS FB458-12	626	IVES
1	DUST PROOF STRIKE DP1	626	IVES
1	ASTRAGAL 357C – 84 "	CLR	PEMKO
2	SILENCERS SR64	GRY	IVES

HW-2 SINGLE, SCW X HMF - TAG 002A,
EACH DOOR TO HAVE

QTY	DESCRIPTION		MANUFACTURER
3	HINGE 5BB1 4.5 X 4.5	652	IVES
1	STOREROOM AL80RD X SAT	626	SCHLAGE
1	CLOSER 4040XP H CUSH	689	LCN
1	SEAL S88BL-17	BLK	PEMKO

HW-3 PAIR, ALD X ALF – TAG 100A
EACH DOOR TO HAVE

QTY	DESCRIPTION		MANUFACTURER
1	EXIT CD9947 NL OP ER– 36"	626	VON DUPRUN
1	EXIT CD9947 EO ER – 36"	626	VON DUPRIN
2	OFFSET WIRE PULL 8190-10	630	IVES
1	RIM CYLINDER 20-057	626	SCHLAGE
2	MORTISE CYLINDER 20-061	626	SCHLAGE
2	CLOSERS 4040XP EDA	689	LCN
2	DROP PLATES 4040 PA-18	689	LCN

Balance of hardware by Aluminum door supplier

HW-4 SINGLE, SCW X HMF – TAG 101A, 104A, 202A
EACH DOOR TO HAVE

QTY	DESCRIPTION		MANUFACTURER
4	HINGE 5BB1 4.5 X 4.5	652	IVES
1	STOREROOM AL80RD X SAT	626	SCHLAGE
1	CLOSER 4040XP RW/PA	689	LCN
3	SILENCERS SR64	GRY	IVES
2	WALL STOP 236W	630	HAGER
1	FLOOR STOP FS436 @ DR 101A	626	IVES

HW-5 SINGLE, SCW X HMF- TAG 102A
EACH DOOR TO HAVE

QTY	DESCRIPTION		MANUFACTURER
4	HINGES 5BBI 4.5 X 4.5	652	IVES
1	ENTRY CO100 CY70 RHO RD	626	SCHLAGE
1	CLOSER 4040XP RW/PA	689	LCN
1	SMOKE SEAL S88BL-20	BLK	PEMKO

HW-6 SINGLE, HMD X HMF – TAG 102B
EACH DOOR TO HAVE

QTY	DESCRIPTION		MANUFACTURER
3	HINGES 5BB1HW 4.5 X 4.5 NRP	652	IVES
1	EXIT 99EO LD - 36"	626	VON DUPRIN
1	CLOSER 4040XP CUSH	689	LCN
1	THRESHOLD 172A-36" X 6" X ½"	ALUM	PEMKO
1	WEATHERSTRIP 303AS 36" X 84"	ALUM	PEMKO
1	SWEEP 315CN – 36"	ALUM	PEMKO

HW-7 SINGLE, SCW X HMF – TAG 105A, 106A
EACH DOOR TO HAVE

QTY	DESCRIPTION		MANUFACTURER
4	HINGES 5BB1 4.5 X 4.5	652	IVES
1	PUSH PLATE 8200 4" X 16"	630	IVES
1	PULL PLATE 8302-8 4" X 16"	630	IVES
1	KICK PLATE 8400 12" X 34"	630	IVES
1	CLOSER 4040XP CUSH	689	LCN
3	SILENCERS SR64	GRY	IVES

HW-8 SINGLE, SCW X HMF – TAG 110A, 111A
EACH DOOR TO HAVE

QTY	DESCRIPTION		MANUFACTURER
4	HINGES 5BB1 4.5 X 4.5	652	IVES
1	ENTRY AL53RD X SAT	626	SCHLAGE
1	CLOSER 4040XP RW/PA	689	LCN
1	STOP/HOLDER FS495	689	IVES
1	SILENCERS SR64	GRY	IVES

HW – 9 SINGLE, HMD X HMF – TAG 108A
EACH DOOR TO HAVE

QTY	DESCRIPTION		MANUFACTURER
3	HINGE 5BB1HW 5 X 4.5 NRP	652	IVES
1	EXIT CD99NL-48" X 990NL TRIM	626	VON DUPRIN
1	RIM CYLINDER 20-057	626	SCHLAGE
1	MORTISE CYLINDER 20-061	626	SCHLAGE
1	CLOSER 4040XP H CUSH	689	LCN
1	ARMOR PLATE 8400 32 X 48	630	IVES
1	THRESHOLD 272A-48" X 6" X 1/4"	ALUM	PEMKO
1	WEATHERSTRIP 303AS 48" X 84"		PEMKO
1	SWEEP 315CN-48"		PEMKO

HW-10 SINGLE, SCW X HMF – TAG 112B
EACH DOOR TO HAVE

QTY	DESCRIPTION		MANUFACTURER
4	HINGES HINGE 5 X 4.5	652	IVES
1	PUSH PLATE 8200 4" X 16"	630	IVES
1	PULL PLATE 8302-8 4" X 16"	630	IVES
1	CLOSER 4040XP RW/PA	ALUM	LCN
1	STOP/HOLDER FS495	626	IVES
1	SEAL S88BL-22	BLK	PEMKO

HW-11 PAIR, SCW X HMF – TAG 112A
EACH DOOR TO HAVE

QTY	DESCRIPTION		MANUFACTURER
8	HINGE 5BB1HW 4.5 X 4.5	652	IVES
1	CD9927NL-LBR ER X 990NL TRIM	626	VON DUPRIN
1	CD9927EO-LBR ER X 990DT TRIM	626	VON DUPRIN
1	RIM CYLINDER 20-057	626	SCHLAGE
2	MORTISE CYLINDER 20-061	626	SCHLAGE
2	CLOSERS 4040XP H CUSH	689	LCN
1	SEAL S88BL-22	BLK	PEMKO
1	MEETING EDGE SEAL S772 – 96"	BLK	PEMKO

HW-12 SINGLE, SCW X HMF – TAG 203A, 204A
EACH DOOR TO HAVE

QTY	DESCRIPTION		MANUFACTURER
4	HINGE 5BB1 4.5 X 4.5	652	IVES
1	PRIVACY AL40S X SAT	626	SCHLAGE
1	CLOSER 4040XP RW/PA	689	LCN
1	SEAL S88BL-20	BLK	PEMKO
1	WALL STOP 236W	630	HAGER

HW-13 SINGLE, SCW X HMF – TAG 205A, 206A, 207A, 208A, 209A, 210A, 211A, 212A, 213A, 218A, 219A
EACH DOOR TO HAVE

QTY	DESCRIPTION		MANUFACTURER
4	HINGES 5BB1 4.5 X 4.5	626	IVES
1	ENTRY AL53RD X RHO	626	SCHLAGE
1	WALL STOP 236W	630	HAGER
3	SILENCERS SR64	GRY	IVES

HW-14 SINGLE, SCW X HMF – TAG 217A
EACH DOOR TO HAVE

QTY	DESCRIPTION		MANUFACTURER
4	HINGE 5BB1 4.5 X 4.5	652	IVES
1	EXIT 99LF – 36" X 996L BE	652	SCHLAGE
1	CLOSER 4040XP X EDA	ALUM	LCN
1	SMOKE SEAL S88BL-20	BLK	PEMKO
1	WALL STOP 236W	630	HAGER

HW-15 SINGLE, DOUBLE ACTING ELIASON DOORS
EACH DOOR TO HAVE

QTY	DESCRIPTION		MANUFACTURER
1	CYLINDER 20-057	626	SCHLAGE

BALANCE OF HARDWARE INCLUDING DEADBOLT FOR LOCKING BY THE DOOR MANUFACTURER

Nov 01, 2018 - 11:17am

REVISIONS	BY

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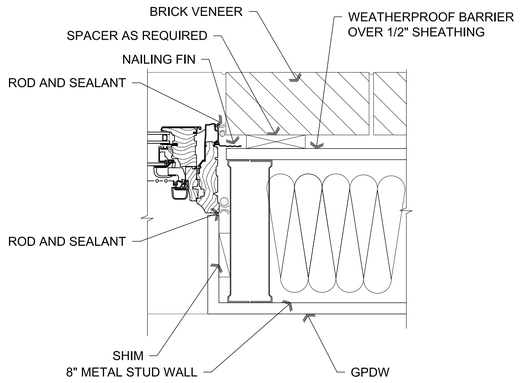
DRAWING: Hardware Schedule

PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ. 86301

APN: 109-02-035

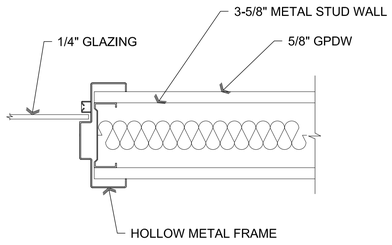
DRAWN BY: L.O.
CHECKED BY: W.A.K.
DATE: Oct 30th, 2018
JOB NO. 710
SHEET

A10.1



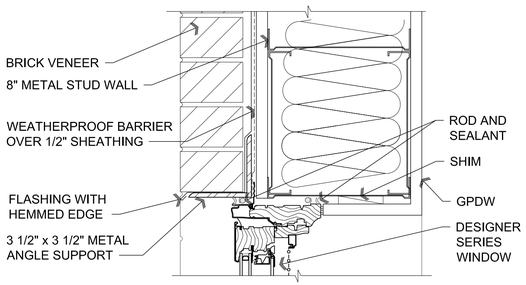
A3 Window Jamb

SCALE: 3" = 1'-0"



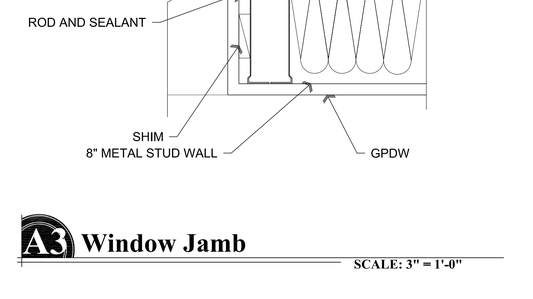
B3 Window Jamb

SCALE: 3" = 1'-0"



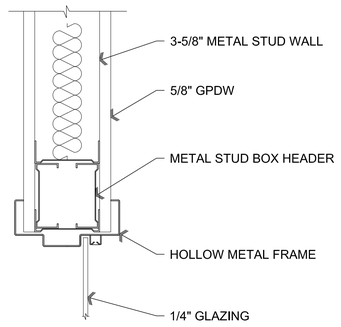
A2 Window Head

SCALE: 3" = 1'-0"



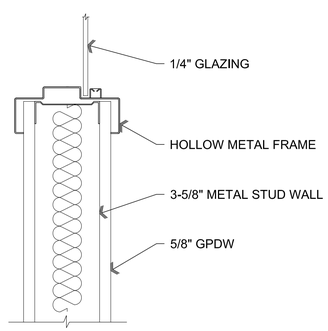
A1 Window Sill

SCALE: 3" = 1'-0"



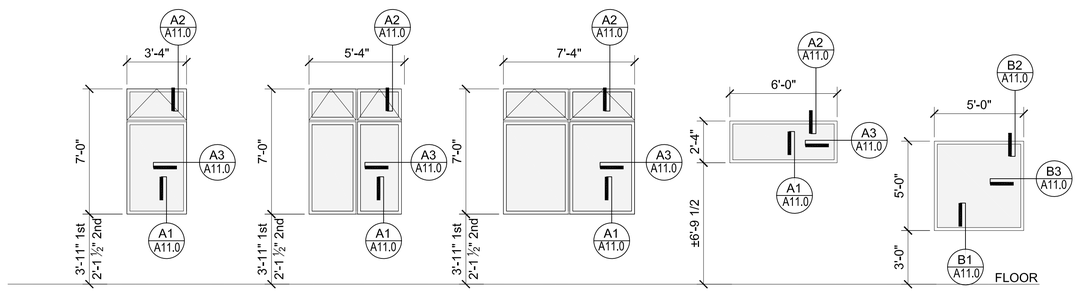
B2 Window Head

SCALE: 3" = 1'-0"



B1 Window Sill

SCALE: 3" = 1'-0"



A PELLA, DESIGNER SERIES ALUMINUM CLAD AWNING WINDOW TRIPLE PANE LOW E

B PELLA, DESIGNER SERIES ALUMINUM CLAD AWNING WINDOW TRIPLE PANE LOW E

C PELLA, DESIGNER SERIES ALUMINUM CLAD AWNING WINDOW TRIPLE PANE LOW E

D PELLA, DESIGNER SERIES ALUMINUM CLAD FIXED WINDOW TRIPLE PANE LOW E

E HOLLOW METAL FRAME FIXED WINDOW 1/4" SINGLE PANE

C1 Window Types

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

Nov 01, 2018 - 11:37am

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REGISTERED ARCHITECT CERTIFICATE NO. 25646 W. ALAN KENSON Date Signed 11/01/18 ARIZONA EXPIRES: 6/30/21

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ARCHITECTURE & PLANNING

DRAWING: Window Types

PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ, 86301

APN: 109-02-035

DRAWN BY	L.O.
CHECKED BY	W.A.K.
DATE	Oct 30th, 2018
JOB NO.	710
SHEET	A11.0

Exterior Materials Schedule XX-

CODE	MATERIAL	LOCATION	MANUFACTURER	SPECIFICATION
AB-1	SHEET MEMBRANE AIR BARRIER	EXTERIOR WALLS	SOPREMA	SOPRASEAL STICK, REFER TO BUILDING SECTIONS / DETAILS CONTACT: WALT HITCHCOCK 520-240-5690
BV-1	BRICK VENEER	EXTERIOR WALLS AND PLANTERS	SUMMIT BRICK COMPANY	MEDIUM RED SMOOTH, 3-5/8"x2-1/4"x7-5/8"
CMU-1	CMU	PLANTERS	YAVAPAI BLOCK COMPANY	6x8x16, 8x8x16 (ELEVATOR SHAFT)
ES-1	EXTERIOR SEALER	EXTERIOR BRICK	PROSOCO	SILOXANE SEALER
FG-1	RECESSED FLOOR GRATE	FRONT ENTRY	BABCOCK DAVIS	BGD74E, ECO TREAD, ALUMINUM RECESSED FRAME, LEVEL BED, CAST IN PLACE
LDR-1	LADDER	ROOF HATCH	PRECISION LADDERS	FIXED LADDER TO ROOF HATCH - FL - ALUMINUM FINISH
MW-1	BELOW GRADE WALL SHEET MEMBRANE WATERPROOFING	BELOW GRADE WALLS	SOPREMA	COLPHENE 3000, REFER TO BUILDING SECTIONS / DETAILS CONTACT: WALT HITCHCOCK 520-240-5690
MW-2	BELOW SLAB WATERPROOFING	BELOW BASEMENT SLAB	SOPREMA	COLPHENE BSW, REFER TO BUILDING SECTIONS / DETAILS CONTACT: WALT HITCHCOCK 520-240-5690
PAV-1	CONCRETE PAVERS	WALKWAYS	CENTRAL ARIZONA BLOCK COMPANY 520-514-1177	6"x9" COBBLES, COLOR TIERRA BLEND
PC-1	METAL PARAPET CAP FLASHING	PARAPET CAP	MBCI	24 GAUGE, RUSTIC RED - VERIFY COLOR WITH ARCHITECT
PT-5	PAINT	HANDRAILS, DOORS, ETC.	SHERWIN WILLIAMS	COLOR: SW2803 ROCKWOOD TERRA COTTA
RF-1	MODIFIED BITUMINOUS ROOFING	ROOF	SOPREMA	REFER TO ROOF PLAN / ROOFING DETAILS CONTACT: WALT HITCHCOCK 520-240-5690
RH-1	ROOF ACCESS HATCH	ROOF ACCESS	BILCO	TYPE S 2'-6"x3'-0"
WIN-1	EXTERIOR WINDOWS	EXTERIOR	PELLA	DESIGNER SERIES

Interior materials schedule XX-

CODE	MATERIAL	LOCATION	MANUFACTURER	SPECIFICATION
ACT-1	ACOUSTIC CEILING TILE AND GRID	REFER TO REFLECTED CEILING PLAN	ARMSTRONG	ASTM C 36; 2'x2' #770 NON DIRECTIONAL SQUARE LAY-IN TILE, WHITE SUSPENDED GRIDS; 15/16" METAL WHITE
CPT-1	CARPET TILE	2nd FLOOR CARPETED AREAS	SHAW	BYLINE 59113 / KNOT 05715
CT-1	CERAMIC TILE	STAIRS, LOBBY, RESTROOMS, ETC. FLOORS	AMERICAN OLEAN	DANYA / RIVERBED DY03 12x24
CT-2	CERAMIC TILE COVE BASE	STAIRS, LOBBY, FLOORS	AMERICAN OLEAN	DANYA / RIVERBED DY03 6x12
CT-3	CERAMIC TILE	RESTROOM WALLS	BTM	STONE MOUNTAIN / ALABASTER 12x24 MATT FINISH
CT-4	CERAMIC TILE BULLNOSE	RESTROOM WALLS	BTM	STONE MOUNTAIN / ALABASTER 3x24 MATT FINISH
FE-1	FIRE EXTINGUISHER	ALL FLOORS	LARSEN'S MANUFACTURING COMPANY	MODEL MP5 - 2A10BC
FEC-1	FIRE EXTINGUISHER CABINET	1st AND 2nd FLOORS	LARSEN'S MANUFACTURING COMPANY	RECESSED MODEL 2409-R1
FEB-1	FIRE EXTINGUISHER BRACKET	BASEMENT	LARSEN'S MANUFACTURING COMPANY	WALL MOUNT BRACKET 818
FRP-1	FIBERGLASS REINFORCED PLASTIC	JANITOR ROOMS 104 AND 202		WHITE, 4' TALL WAINSCOT, 4' ON EACH SIDE OF JANITOR SINK
GR-1	GROUT	STAIRS, LOBBY, RESTROOMS, ETC. FLOORS		59 SADDLE BROWN
GR-2	GROUT	RESTROOM WALLS		186 KHAKI
PL-1	PLASTIC LAMINATE	VERTICAL CABINETRY CLASSROOM	WILSONART	4796-60 BURNISHED CHESTNUT
PL-2	PLASTIC LAMINATE	VERTICAL CABINETRY KITCHEN	WILSONART	D50-60 KHAKI BROWN
PT-1	PAINT	WALLS	SHERWIN WILLIAMS	SW 6108 LATTE
PT-2	PAINT	ACCENT	SHERWIN WILLIAMS	SW 6109 HOPSACK
PT-3	PAINT	CEILING	SHERWIN WILLIAMS	SW 7007 CEILING BRIGHT WHITE
PT-4	PAINT	HOLLOW METAL FRAMES	SHERWIN WILLIAMS	COLOR: SW6069 FRENCH ROAST
RB-1	RUBBER BASE	CARPETED AREAS	ROPPE	147 LIGHT BROWN
SS-1	SOLID SURFACE	COUNTERTOPS RESTROOMS , WARMING KITCHEN, CLASSROOM, AV	WILSONART	9047 ML CHICORY CREAM MELANGE

REVISIONS | BY
1 CITY COMMENTS 12-10-2018 | LO

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PROJECT: Sharlot Hall Education Center Addition 415 W. Gurley St. Prescott, AZ, 86301
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DRAWN BY L.O.
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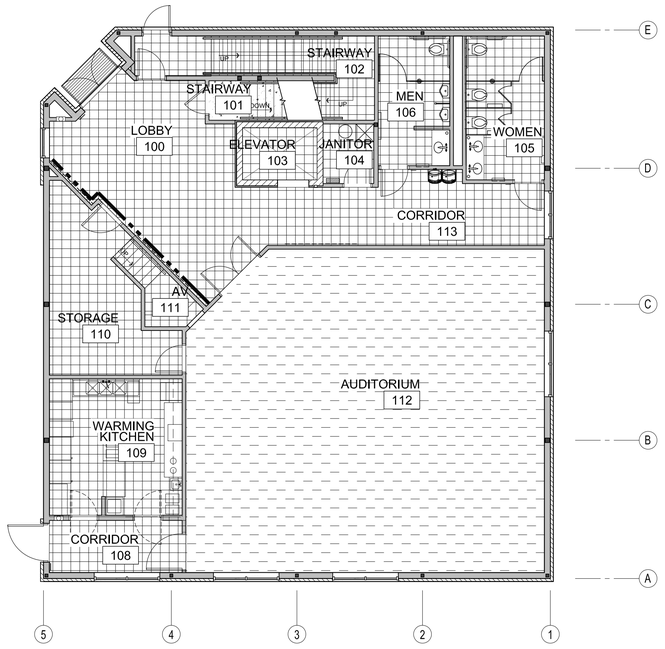
Dec 27, 2018 - 2:30pm



A2 Second Floor Room Finish Plan

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

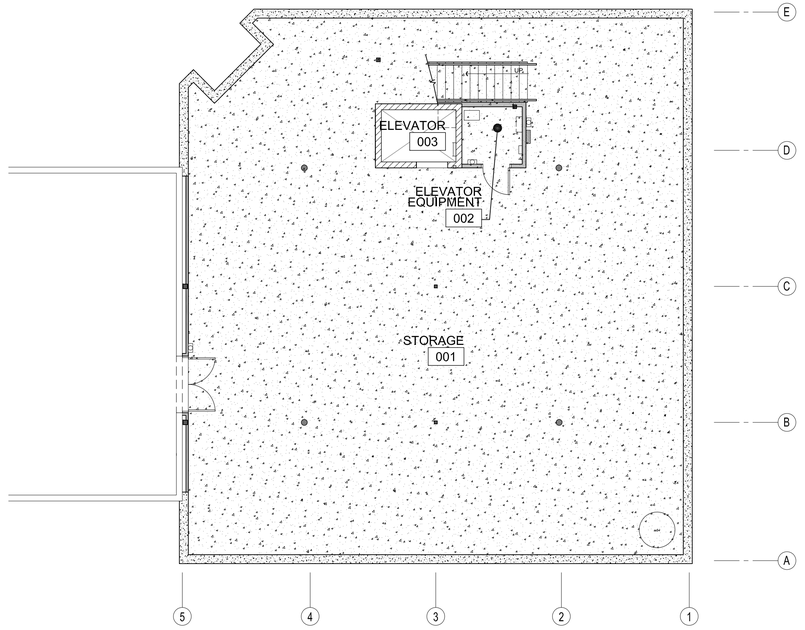
North



B2 First Floor Room Finish Plan

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

North



A1 Basement Room Finish Plan

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

North

Legend

- CONCRETE FLOOR SURFACE
- CARPET CPT-1
- CERAMIC TILE CT-1
- PAINT - ACCENT WALL PT-2

Room Finish Schedule

NO.	ROOM NAME	FLOOR	BASE	WALLS	CEILING	HEIGHT
001	STORAGE	F3	B3	W1	C3	VARIES
002	ELEVATOR EQUIPMENT	F3	B3	W1	C2	8'-0"
003	ELEVATOR	F1	-	-	-	-
100	LOBBY	F1	B1	W1	C1	12'-0"
101	STAIRWAY	F1	B1	W1	C2 / C3	VARIES
102	STAIRWAY	F1	B1	W1	C1 / C3	VARIES
103	ELEVATOR	F1	B1	-	-	-
104	JANITOR	F1	B1	W1 / W2	C2	8'-0"
105	WOMEN	F1	B1	W1	C2	8'-0"
106	MEN	F1	B1	W1	C2	8'-0"
108	CORRIDOR	F1	B1	W1	C1	12'-0"
109	WARMING KITCHEN	F1	B1	W1	C2	8'-0"
110	STORAGE	F1	B1	W1	C1	12'-0"
111	AV	F1	B1	W1	C1	12'-0"
112	AUDITORIUM	F2	B2	W1	C1	12'-0"
113	CORRIDOR	F1	B1	W1	C1	12'-0"
201	ELEVATOR	F1	B1	-	-	-
202	JANITOR	F1	B1	W1 / W2	C2	8'-0"
203	WOMEN	F1	B1	W1	C2	8'-0"
204	MEN	F1	B1	W1	C2	8'-0"
205	CLASSROOM	F2	B2	W1	C1	10'-0"
206	OFFICE	F2	B2	W1	C1	10'-0"
207	OFFICE	F2	B2	W1	C1	10'-0"
208	OFFICE	F2	B2	W1	C1	10'-0"
209	OFFICE	F2	B2	W1	C1	10'-0"
210	OFFICE	F2	B2	W1	C1	10'-0"
211	OFFICE	F2	B2	W1	C1	10'-0"
212	OFFICE	F2	B2	W1	C1	10'-0"
213	STORAGE / COPY	F2	B2	W1	C1	10'-0"
214	CORRIDOR	F2	B2	W1	C1	10'-0"
215	CORRIDOR	F2	B2	W1	C1	10'-0"
216	OFFICE	F2	B2	W1	C1	10'-0"
217	STAIRS	F1	B1	W1	C1	VARIES
218	STORAGE	F2	B2	W1	C2	8'-0"
219	STORAGE	F2	B1	W1	C2	8'-0"

FLOOR:
F1 CERAMIC TILE

F2 CARPET

F3 SEALED CONCRETE

BASE:
B1 CERAMIC TILE BASE

B2 RUBBER BASE

B3 NONE

WALLS:
W1 PAINTED GPDW

W2 4'-0" F.R.P. WAINSCOT

CEILING:
C1 2x2 SUSPENDED ACOUSTICAL PANELS

C2 GPDW

C3 OPEN TO STRUCTURE

REVISIONS	BY

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REGISTERED ARCHITECT
CERTIFICATE NO.
25646
W. ALAN KENSON
Date Signed 11/01/18
ARIZONA
EXPIRES: 6/30/21

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ARCHITECTURE & PLANNING

DRAWING: Finish Schedule and Finish Plan

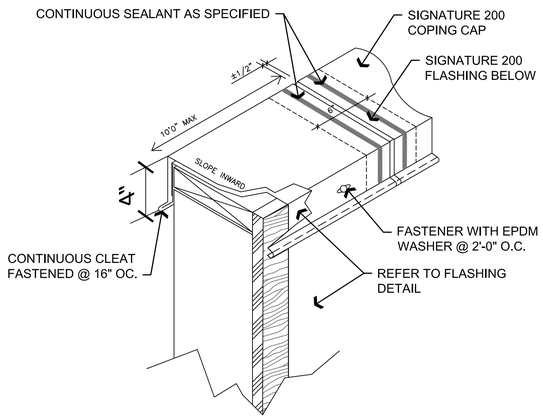
PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ. 86301

APN: 109-02-035

DRAWN BY: L.O.
CHECKED BY: W.A.K.
DATE: Oct 30th, 2018
JOB NO.: 710
SHEET:

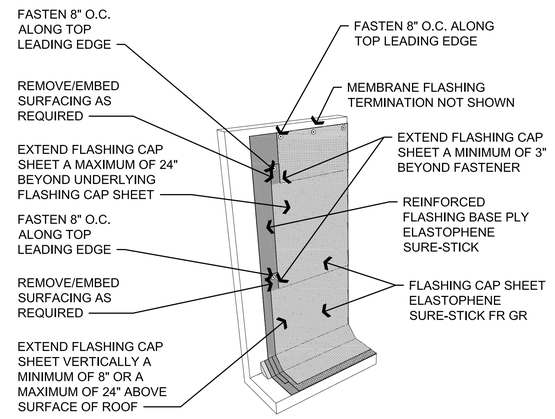
A13.0

Nov 01, 2018 - 11:38am



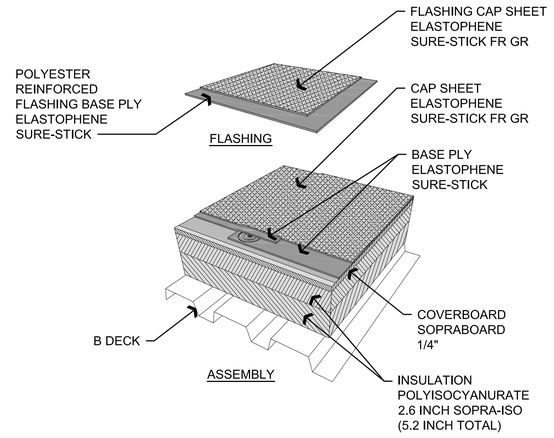
A3 Parapet

SCALE: N.T.S.



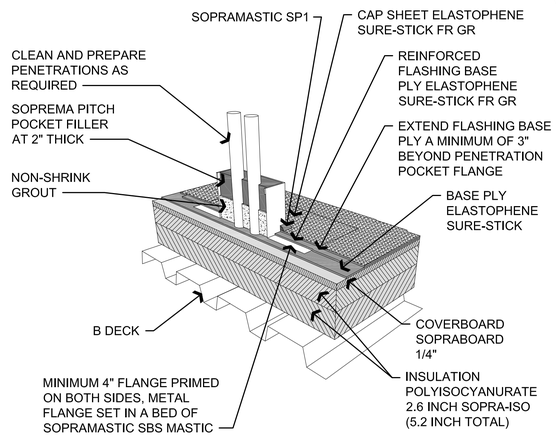
B3 Flashing Greater Than 24"

SCALE: N.T.S.



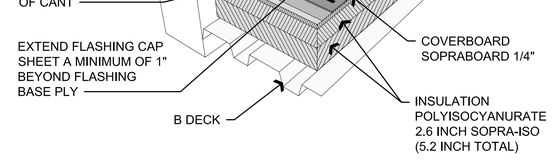
C3 Roof Assembly

SCALE: N.T.S.



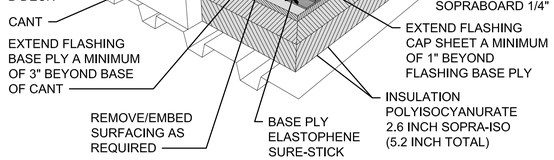
D3 Pitch Pocket

SCALE: N.T.S.



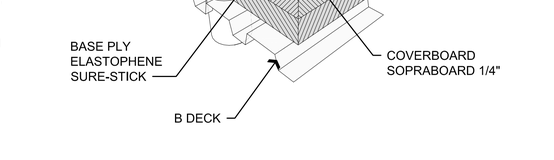
B2 Wall Flashing

SCALE: N.T.S.



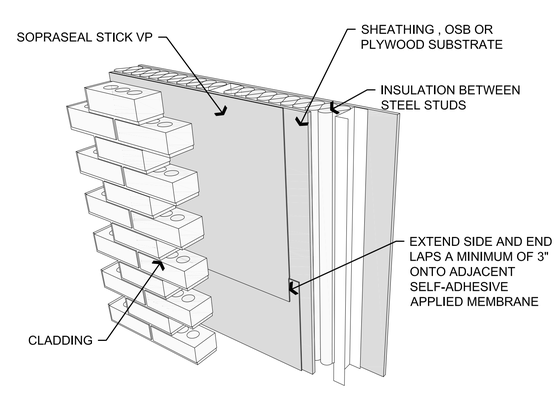
C2 Curb with Removable Counterflashing

SCALE: N.T.S.



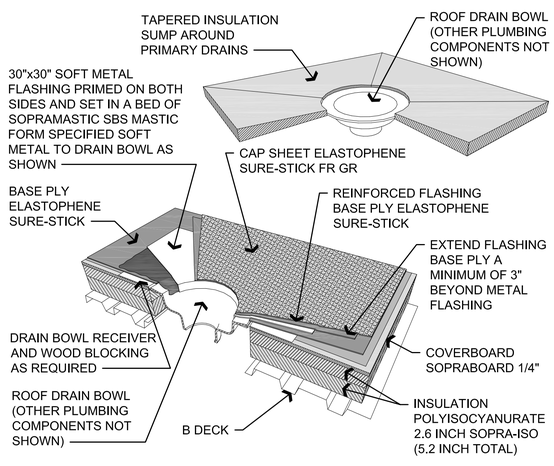
D2 Plumbing Vent Flashing

SCALE: N.T.S.



B1 Self Adhesive Applied Air Barrier

SCALE: n.t.s.



C1 Roof Drain with Soft Metal Flashing

SCALE: N.T.S.

Nov 01, 2018 - 12:47pm

REVISIONS	BY

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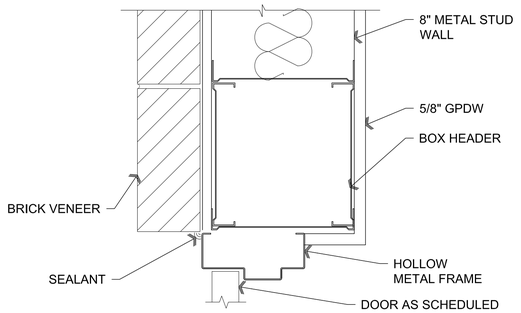
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email: waka@cableone.net
www.kenson-associates.com
ARCHITECTURE & PLANNING

DRAWING: Roof Details

PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ, 86301

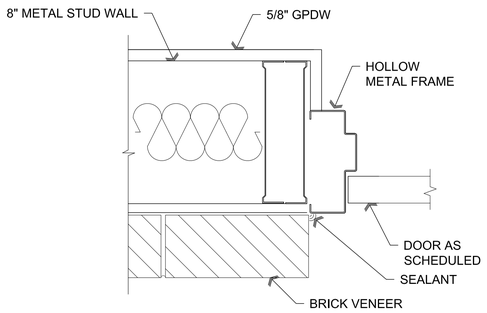
APN: 109-02-035

DRAWN BY	L.O.
CHECKED BY	W.A.K.
DATE	Oct 30th, 2018
JOB NO.	710
SHEET	A14.0



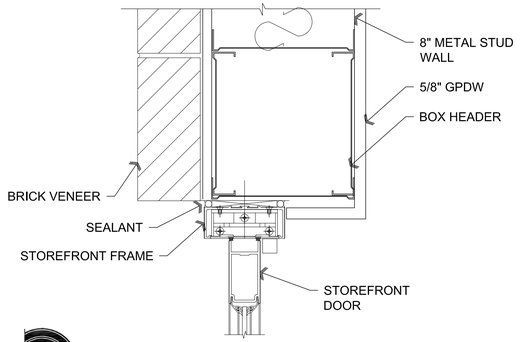
A4 Exterior Door Head

SCALE: 3" = 1'-0"



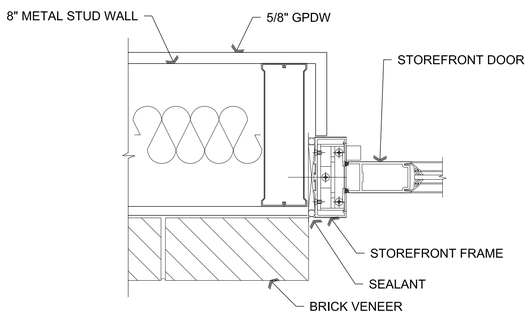
A3 Exterior Door Jamb

SCALE: 3" = 1'-0"



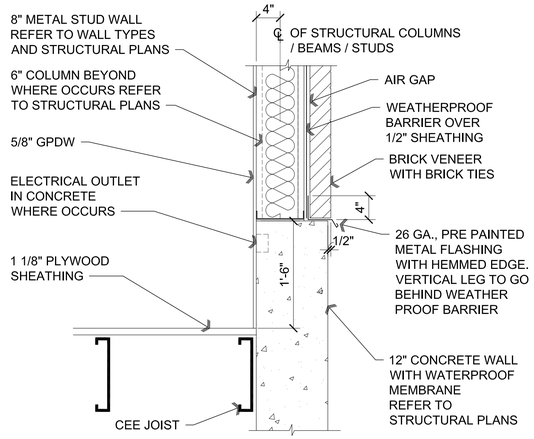
A2 Storefront Head

SCALE: 3" = 1'-0"



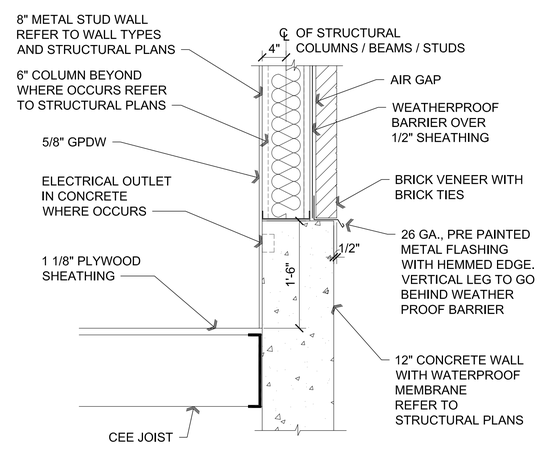
A1 Storefront Jamb

SCALE: 3" = 1'-0"



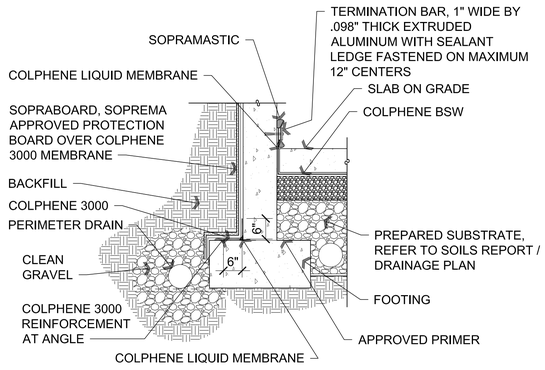
B3 Exterior Wall Detail

SCALE: 1" = 1'-0"



C3 Exterior Wall Detail

SCALE: 1" = 1'-0"

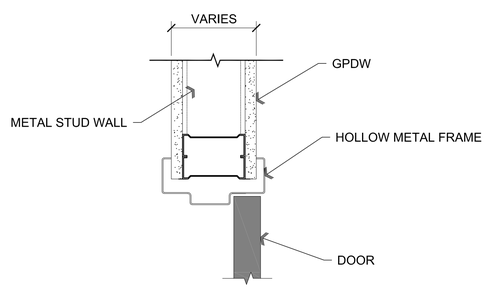


D3 Foundation Wall with Drainage System and Under Slab Membrane

SCALE: n.t.s.

B2 Door Head

SCALE: 3" = 1'-0"



B1 Door Jamb

SCALE: 3" = 1'-0"

C1 Soprema Standard Tie-in Detail

SCALE: n.t.s.

D2 Foundation Wall Cladding Tie-In

SCALE: n.t.s.

D1 Horizontal Wall Penetration Flashing

SCALE: n.t.s.

Nov 01, 2018 - 11:41am

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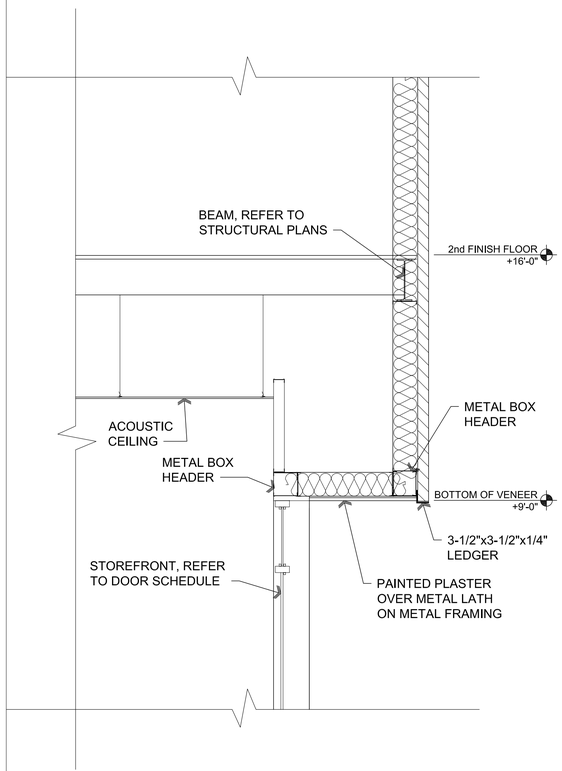
DRAWING: Details

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Prescott, AZ, 86301

APN: 109-02-035

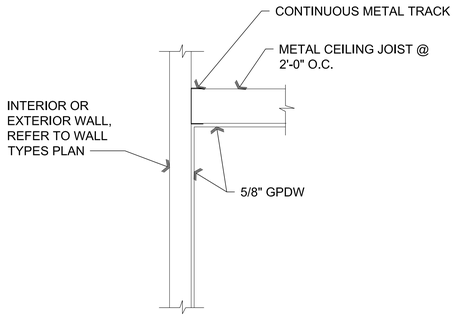
DRAWN BY: L.O.
CHECKED BY: W.A.K.
DATE: Oct 30th, 2018
JOB NO.: 710
SHEET:

A14.1



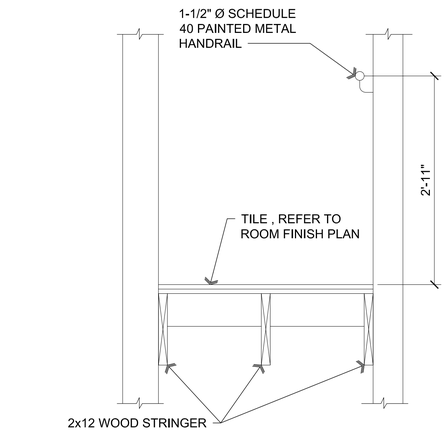
A1 WALL DETAIL

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



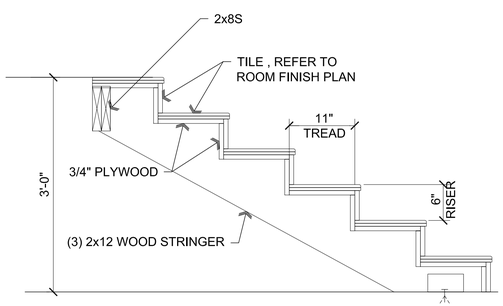
B3 Ceiling Framing

SCALE: 1"=1'-0"



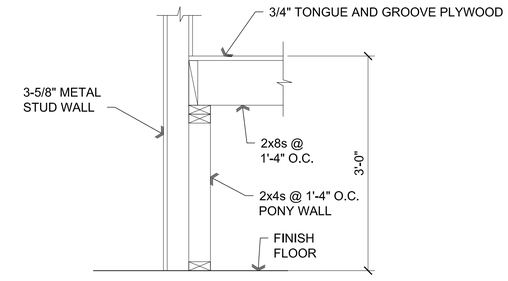
B2 Stair Section

SCALE: 1"=1'-0"



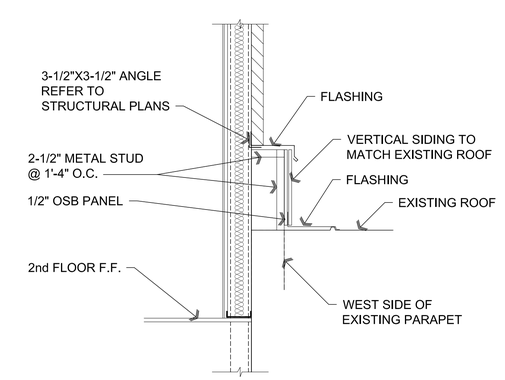
B1 Stairs

SCALE: 1"=1'-0"



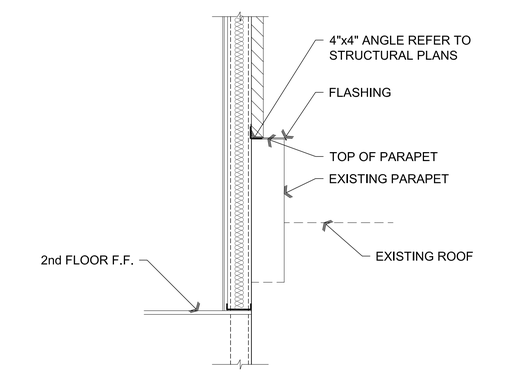
C3 AV Room Floor Framing

SCALE: 1"=1'-0"



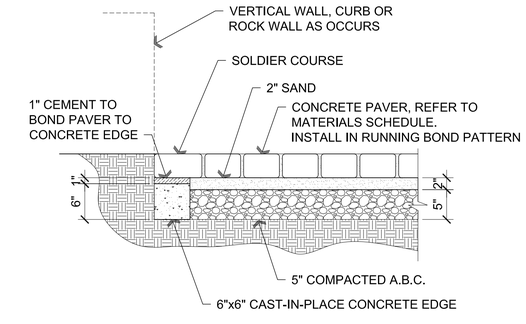
C2 Brick Veneer at Existing Parapet

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



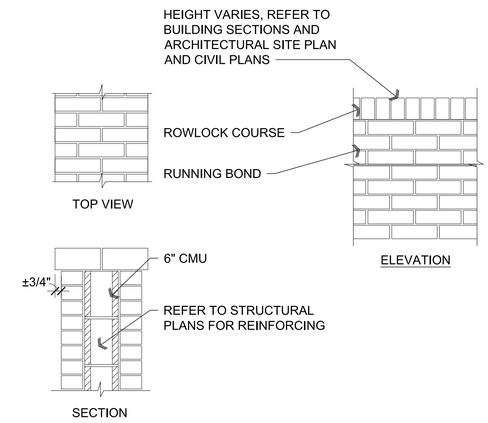
C1 Brick Veneer at Existing Parapet

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



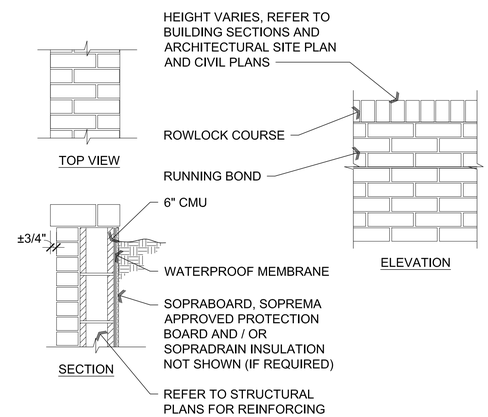
D3 Hidden Curb Paver Detail

SCALE: 1"=1'-0"



D2 Brick Veneer Wall Detail

SCALE: 1"=1'-0"



D1 Planter Retaining Wall Detail

SCALE: 1"=1'-0"

Nov 01, 2018 - 11:41am

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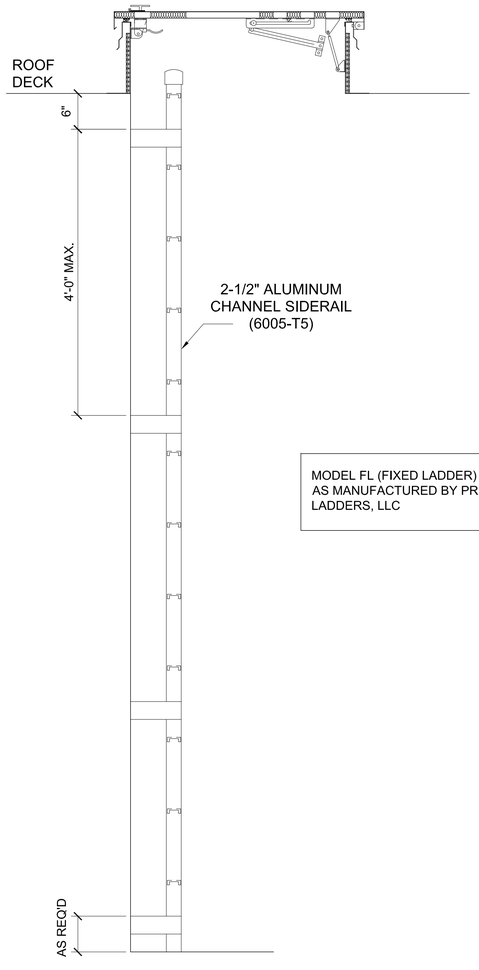
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DRAWING: Details

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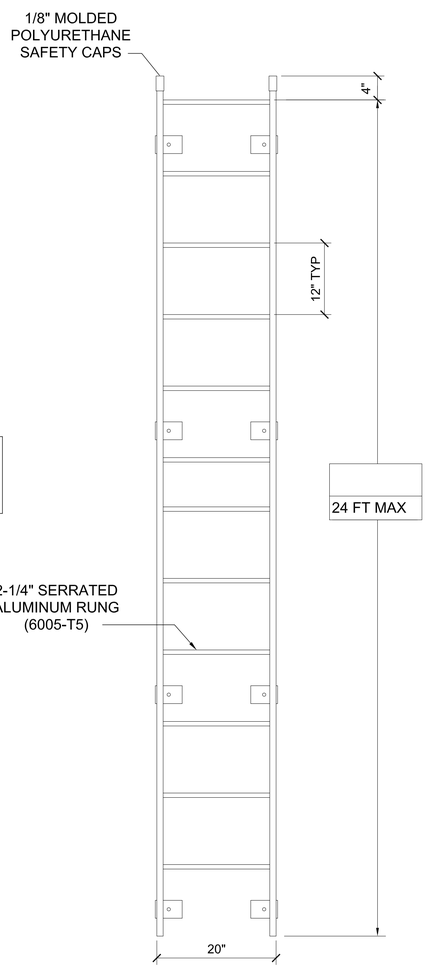
APN: 109-02-035

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CHECKED BY	W.A.K.
DATE	Oct 30th, 2018
JOB NO.	710
SHEET	A14.2



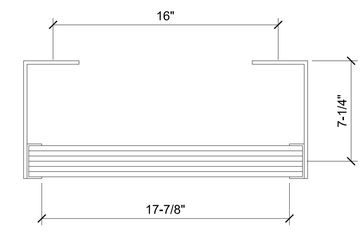
A1 Ladder Section

SCALE: 1" = 1'-0"

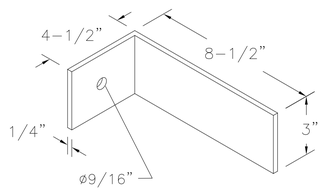


B1 Ladder Front Elevation

SCALE: 1" = 1'-0"



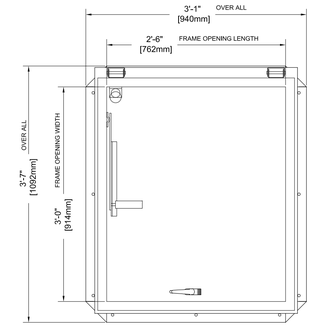
PLAN



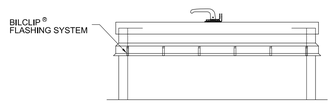
BRACKET DETAIL

C1 Ladder Details

SCALE: 1" = 1'-0"

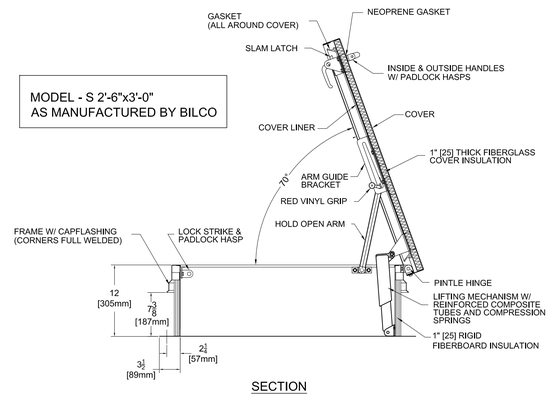


PLAN



FRONT

MODEL - S 2'-6"x3'-0"
AS MANUFACTURED BY BILCO



SECTION

D1 Roof Hatch

SCALE: 1" = 1'-0"

Dec 27, 2018 - 1:15pm

REVISIONS		BY
1	CITY COMMENTS 12-10-2018	LO

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JOB NO.: 710
SHEET: 1

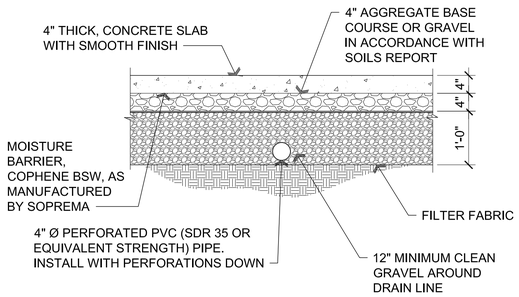
A14.3

General Notes

A. CAREFULLY READ AND INCORPORATE RECOMMENDATIONS OUTLINED IN THE GEOTECHNICAL SUBSURFACE SOILS REPORT.
B. PROVIDE WATERPROOF MEMBRANE VAPOR BARRIER- COPHENE BSW - BELOW CONCRETE SLAB AS MANUFACTURED BY SOPREMA. INSTALL PER MANUFACTURERS INSTRUCTIONS. SUBMIT MANUFACTURER SHOP DRAWINGS SPECIFIC TO THIS PROJECT WITH DETAILS, PROJECT DATA, WARRANTY AND RELATED ITEMS TO ARCHITECT FOR APPROVAL PRIOR TO COMMENCING WORK.

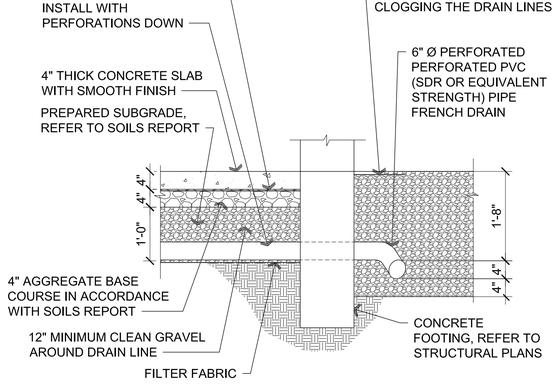
Descriptive Keynotes

1. PROVIDE 4" Ø PERFORATED PVC (SDR 35 OR EQUIVALENT STRENGTH) PIPE. INSTALL WITH PERFORATIONS DOWN, TYPICAL.
2. PROVIDE CLEAN GRAVEL AROUND DRAIN LINE, TYPICAL.
3. PROVIDE 4" THICK, CONCRETE SLAB WITH SMOOTH FINISH, REFER TO STRUCTURAL PLANS.
4. PROVIDE CONCRETE FOOTING, REFER TO STRUCTURAL PLANS.
5. PROVIDE 6" Ø PERFORATED PVC (SDR 35 OR EQUIVALENT STRENGTH) PIPE FRENCH DRAIN.
6. PROVIDE WATERPROOF COATING ON EXTERIOR SIDE OF FOUNDATION WALL, TYPICAL, REFER TO SPECIFICATIONS / DETAILS.
7. PROVIDE FLOOR DRAIN, TYPICAL, REFER TO PLUMBING PLANS.
8. PROVIDE COLUMN, TYPICAL, REFER TO STRUCTURAL PLANS.
9. PROVIDE ELECTRICAL SUMP PUMP FOR FLOOR DRAIN AND UNDERGROUND DRAINAGE SYSTEM, REFER TO CIVIL, PLUMBING , MECHANICAL, AND ELECTRICAL PLANS.
10. PROVIDE SAWCUT CONCRETE CONTROL JOINT, TYPICAL.
11. ELEVATOR SHAFT.



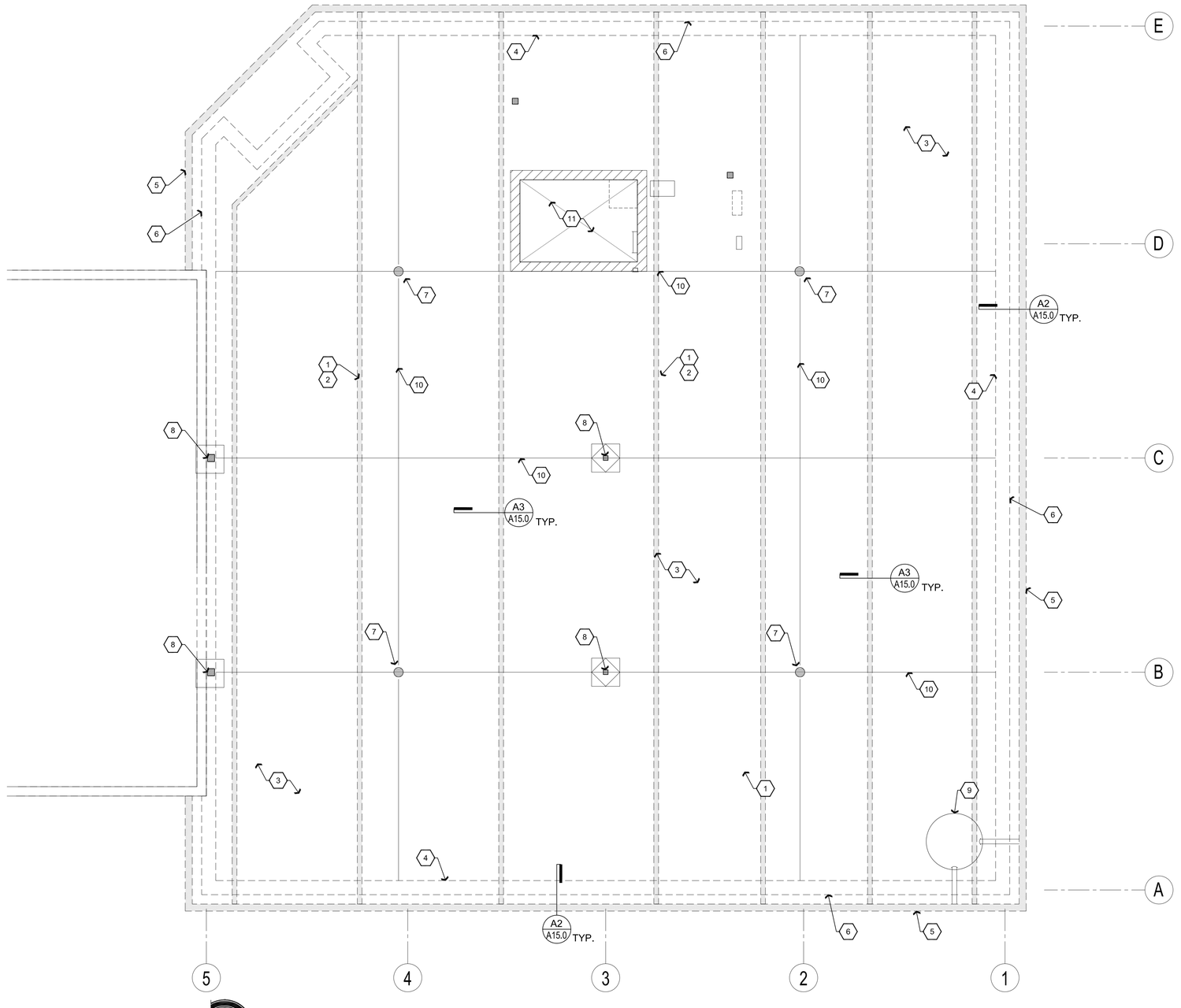
A3 Drainage Pipe Trench Detail

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



A2 Drainage Pipe Trench Drain Detail

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



B1 Underground Drainage System

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

Nov 01, 2018 - 11:39am

REVISIONS	BY

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REGISTERED ARCHITECT CERTIFICATE NO. 25646 W. ALAN KENSON Date Signed 11/01/18 ARIZONA EXPIRES: 6/30/21

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DRAWING: Underground Drainage System

PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ, 86301

APN: 109-02-035

DRAWN BY: L.O.
CHECKED BY: W.A.K.
DATE: Oct 30th, 2018
JOB NO.: 710
SHEET:

A15.0

Specifications

DIVISION 1 - GENERAL REQUIREMENTS

SECTION 01000 - DEFINITIONS

1. DRAWING PLAN CLARIFICATION: AN ANSWER FROM THE ARCHITECT, IN RESPONSE TO AN INQUIRY FROM THE CONTRACTOR, INTENDED TO MAKE SOME REQUIREMENT(S) OF THE DRAWINGS OR PLANS CLEARLY UNDERSTOOD. DRAWING/PLAN CLARIFICATIONS MAY BE SKETCHES, DRAWINGS OR IN NARRATIVE FORM AND WILL NOT CHANGE ANY REQUIREMENTS OF THE DRAWINGS OR PLANS, RESPONSES TO CONTRACTOR INQUIRIES SHALL BE AS OUTLINED IN SECTION 01005.
2. PROJECT COMMUNICATIONS: ROUTINE WRITTEN COMMUNICATIONS BETWEEN THE ARCHITECT AND THE CONTRACTOR SHALL BE IN LETTER, FIELD MEMO, OR EMAIL FORMAT. SUCH COMMUNICATIONS SHALL NOT BE IDENTIFIED AS REQUESTS FOR INFORMATION NOR SHALL THEY SUBSTITUTE FOR ANY OTHER WRITTEN REQUIREMENT PURSUANT TO THE PROVISIONS OF THE CONTRACT DOCUMENTS.
3. REQUEST FOR INFORMATION: A REQUEST FROM THE CONTRACTOR OR ONE OF THEIR SUBCONTRACTORS, TO THE ARCHITECT, SEEKING AN INTERPRETATION OR A CLARIFICATION OF SOME REQUIREMENT OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL CLEARLY AND CONCISELY SET FORTH THE ISSUE FOR WHICH THEY SEEK CLARIFICATION OR INTERPRETATION AND WHY A RESPONSE IS NEEDED FROM THE ARCHITECT. THE CONTRACTOR SHALL, IN THE WRITTEN REQUEST, SET FORTH ITS INTERPRETATION OR UNDERSTANDING OF THE CONTRACT'S REQUIREMENTS ALONG WITH REASONS WHY IT HAS REACHED SUCH AN UNDERSTANDING. RESPONSES FROM THE ARCHITECT WILL NOT CHANGE ANY REQUIREMENTS OF THE CONTRACT DOCUMENTS. RESPONSES TO CONTRACTOR INQUIRIES SHALL BE AS OUTLINED IN SECTION 01005

SECTION 01005 - REQUEST FOR INFORMATION (RFI) PROCEDURES

1. ALL RFIS SHALL BE SUBMITTED TO ARCHITECT VIA EMAIL IN WORD DOCUMENT (.DOC) OR ADOBE (.PDF) FORMATS ONLY. EMAIL ADDRESS IS WAKA@CABLEONE.NET. ANY OTHER TYPE OF SUBMITTAL PROCESS OR PROCEDURE WILL NOT BE RESPONDED TO.
2. IN THE EVENT THAT THE CONTRACTOR OR SUBCONTRACTOR, AT ANY TIER, DETERMINES THAT SOME PORTION OF THE DRAWINGS, SPECIFICATIONS, OR OTHER CONTRACT DOCUMENTS REQUIRES CLARIFICATION OR INTERPRETATION BY THE ARCHITECT, THE CONTRACTOR SHALL SUBMIT AN RFI TO THE ARCHITECT. RFIS MAY ONLY BE SUBMITTED BY THE GENERAL CONTRACTOR. THE GENERAL CONTRACTOR SHALL CLEARLY AND CONCISELY SET FORTH THE ISSUE OF WHICH CLARIFICATION OR INTERPRETATION IS SOUGHT AND WHY A RESPONSE IS NEEDED FROM THE ARCHITECT. IN THE RFI, THE CONTRACTOR SHALL SET FORTH THEIR INTERPRETATION OR UNDERSTANDING OF THE REQUIREMENT ALONG WITH REASONS WHY SUCH AN UNDERSTANDING WAS REACHED.
3. THE ARCHITECT ACKNOWLEDGES THAT THIS IS A COMPLEX PROJECT BASED UPON THE ARCHITECT'S PAST EXPERIENCE WITH PROJECTS OF SIMILAR COMPLEXITY.
4. THE ARCHITECT WILL REVIEW ALL PROPERLY SUBMITTED RFIS TO DETERMINE WHETHER THEY ARE RFIS WITHIN THE MEANING OF THIS TERM. IF THE ARCHITECT DETERMINES THAT THE DOCUMENT IS NOT AN RFI, IT WILL BE RETURNED TO THE CONTRACTOR, UN-REVIEWED AS TO CONTENT, FOR RE-SUBMITTAL IN THE PROPER FORM.
5. RESPONSES TO RFIS SHALL BE ISSUED WITHIN SEVEN (7) WORKING DAYS OF RECEIPT OF THE REQUEST FROM THE CONTRACTOR UNLESS THE ARCHITECT DETERMINES THAT A LONGER TIME IS NECESSARY TO PROVIDE AN ADEQUATE RESPONSE. IF A LONGER TIME IS DETERMINED NECESSARY BY THE ARCHITECT, THE ARCHITECT WILL WITHIN FIVE (5) WORKING DAYS OF RECEIPT OF THE REQUEST, NOTIFY THE CONTRACTOR OF THE ANTICIPATED RESPONSE TIME. IF THE CONTRACTOR SUBMITS AN RFI ON AN ACTIVITY WITH SEVEN(7) WORKING DAYS OR LESS OF FLOAT ON THE CURRENT PROJECT SCHEDULE THE CONTRACTOR SHALL NOT BE ENTITLED TO ANY TIME EXTENSION DUE TO THE TIME IT TAKES THE ARCHITECT TO RESPOND TO THE REQUEST PROVIDED THAT THE ARCHITECT RESPONDS WITHIN THE SEVEN (7) WORKING DAYS SET FORTH ABOVE.
6. ARCHITECT WILL RESPOND TO ALL RFIS VIA EMAIL TO ONE CONTACT IN THE CONTRACTOR'S OFFICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FORWARDING THIS RESPONSE EMAIL TO ALL PERTINENT PERSONNEL, SUBCONTRACTORS AND SUPPLIERS.
7. RESPONSES FROM THE ARCHITECT WILL NOT CHANGE ANY REQUIREMENT OF THE CONTRACT DOCUMENTS. IN THE EVENT THE CONTRACTOR BELIEVES THAT A RESPONSE TO AN RFI WILL CAUSE A CHANGE TO THE REQUIREMENTS OF THE CONTRACT DOCUMENT, THE CONTRACTOR SHALL GIVE WRITTEN NOTICE T THE ARCHITECT STATING THAT THE CONTRACTOR CONSIDERS THE RESPONSE TO BE A CHANGE ORDER. FAILURE TO GIVE SUCH WRITTEN NOTICE SHALL WAIVE THE CONTRACTOR'S RIGHT TO SEEK ADDITIONAL TIME OR COST.

SECTION 01010 - SUMMARY OF WORK

1. THE AIA "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION" (FORM A201-2017) SHALL BE A PART OF THE CONTRACT DOCUMENTS, ALONG WITH THESE DRAWINGS AND SPECIFICATIONS.
2. IN THE PREPARATION OF THESE SPECIFICATIONS AN EFFORT HAS BEEN MADE TO SEGREGATE THE VARIOUS BRANCHES OF THE WORK UNDER HEADINGS, BY TRADES. THIS IS DONE ONLY FOR CONVENIENCE AND SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF FURNISHING EVERY ITEM INDICATED OR SPECIFIED WHETHER PROPERLY SEGREGATED OR NOT.
3. THE MISPLACEMENT, ADDITION OR OMISSION OF ANY LETTER, WORD OR PUNCTUATION MARK, OR LACK OF CAPITALIZATION OF A WORD, SHALL IN NO WAY DAMAGE THE TRUE SPIRIT, INTENT, OR MEANING OF THESE SPECIFICATIONS.
4. CONTRACTOR SHALL COMPLY WITH, AND REQUIRE ALL SUBCONTRACTORS TO COMPLY WITH, STATE AND CITY CONTRACTOR'S LICENSE LAWS AND BE DULY REGISTERED AND LICENSED THEREUNDER.
5. WHERE SPECIFIC INSTRUCTIONS IN THESE SPECIFICATIONS REQUIRE THAT A PARTICULAR PRODUCT AND/OR MATERIAL(S) BE INSTALLED AND/OR APPLIED BY AN APPROVED APPLICATOR OF THE MANUFACTURER, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ANY SUBCONTRACTORS USED FOR SUCH WORK BE AN APPROVED APPLICATOR.

SECTION 01015 - PROJECT COORDINATION

1. THE GENERAL CONTRACTOR SHALL COORDINATE CONSTRUCTION OPERATIONS INCLUDED IN VARIOUS SECTIONS OF THESE SPECIFICATIONS TO ASSURE EFFICIENT COORDINATION AND ORDERLY INSTALLATION OF EACH PART OF THE WORK. THE GENERAL CONTRACTOR SHALL ALSO COORDINATE CONSTRUCTION OPERATIONS INCLUDED UNDER DIFFERENT SECTIONS THAT DEPEND ON EACH OTHER FOR PROPER INSTALLATION, CLEARANCES, CONNECTIONS, AND OPERATIONS.
2. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL COORDINATE THEIR WORK WITH THE OWNER'S VENDOR'S WORKS.
3. THE VENDOR'S THAT WILL SUPPLY AND INSTALL THESE ITEMS HAS NOT BEEN CHOSEN YET. AS SOON AS THE VENDOR'S ARE DETERMINED THE CONTRACTOR WILL BE NOTIFIED OF ALL CONTACT INFORMATION.
4. THE PROJECT SUPERINTENDENT AND THE PROJECT MANAGER SHALL HAVE A MEETING WITH THE FOREMEN OF THE MECHANICAL, ELECTRICAL, FIRE SPRINKLER, AND PLUMBING SUBCONTRACTORS PRIOR TO THE INSTALLATION OF ANY OF THEIR MATERIALS AND EQUIPMENT IN THE BUILDING. THE PURPOSE OF THIS MEETING SHALL BE TO REQUIRE ALL OF THESE SUBCONTRACTORS TO COORDINATE THEIR INSTALLATION LOCATIONS OF THEIR MATERIALS AND EQUIPMENT SO THAT THERE ARE NO CONFLICTS IN THE FIELD. ALL OF THESE SUBCONTRACTORS MATERIALS AND EQUIPMENT SHALL BE INSTALLED AS HIGH AS IS POSSIBLE WITHIN THE STRUCTURAL FRAMING SYSTEMS AND IS NOT TO BE INSTALLED ANY LOWER THAN THE BOTTOM OF THE STRUCTURAL ROOF AND FLOOR SYSTEMS UNLESS APPROVED IN ADVANCE IN WRITING BY THE ARCHITECT. SHOULD THERE END UP BEING A CONFLICT BETWEEN THE SUBCONTRACTORS MATERIALS AND EQUIPMENT, THEN THE CONFLICTING MATERIALS AND EQUIPMENT SHALL BE REMOVED AND PROPERLY REINSTALLED AT NO ADDITIONAL COST TO THE OWNER.

SECTION 01017 - SUPERINTENDENT

1. THE CONTRACTOR SHALL EMPLOY A COMPETENT SUPERINTENDENT AND NECESSARY ASSISTANTS WHO SHALL BE IN ATTENDANCE AT THE PROJECT SITE DURING PERFORMANCE OF THE WORK.
2. THE SUPERINTENDENT SHALL REPRESENT THE CONTRACTOR, AND COMMUNICATIONS GIVEN TO THE SUPERINTENDENT SHALL BE AS BINDING IF GIVEN TO THE CONTRACTOR. IMPORTANT COMMUNICATIONS SHALL BE CONFIRMED IN WRITING. OTHER COMMUNICATIONS SHALL BE SIMILARLY CONFIRMED ON WRITTEN REQUEST IN EACH CASE.

SECTION 01025 - APPLICATIONS FOR PAYMENT

1. SUBMIT APPLICATIONS FOR PAYMENT TO OWNER IN ACCORD WITH THE SCHEDULE ESTABLISHED BY CONDITIONS OF THE CONTRACT AND AGREEMENT BETWEEN OWNER AND CONTRACTOR.
2. NO PROJECTIONS IN PAYMENTS WILL BE ALLOWED.
3. SUBMIT ITEMIZED APPLICATIONS TYPED ON AIA DOCUMENT G702-92, " APPLICATIONS AND CERTIFICATE FOR PAYMENT" AND CONTINUATION SHEETS G703-92.
4. CONTRACTOR SHALL SUBMIT ROUGH DRAFT OF THE APPLICATIONS FOR PAYMENT TO ARCHITECT FOR AN ON-SITE REVIEW FOLLOWING END OF DRAW PERIOD; THEN SUBMIT ONE (1) FINAL COPY AT THE TIMES STIPULATED IN THE AGREEMENT.

SECTION 01040 - CONTRACTOR'S CONSTRUCTION SCHEDULES

1. THE CONTRACTOR SHALL PREPARE A CONSTRUCTION SCHEDULE, FOR THE WORK, WITHIN 7 CALENDAR DAYS OF BEING AWARDED THE CONTRACT AND SUBMIT IT FOR THE OWNER'S AND ARCHITECT'S INFORMATION.
2. THE SCHEDULE SHALL BE A CRITICAL PATH METHOD SCHEDULE AND SHALL DEMONSTRATE A REALISTIC, EXPEDITIOUS PLAN FOR COMPLETING THE WORK WITHIN THE PARAMETERS OF THE CONTRACT DOCUMENTS.
3. THE CONTRACTOR SHALL CONFORM TO THE MOST RECENT SCHEDULE.
4. THE SCHEDULE SHALL NOT EXCEED TIME LIMITS CURRENT UNDER THE CONTRACT DOCUMENTS.
5. THE SCHEDULE SHALL BE REVISED AT APPROPRIATE INTERVALS AS REQUIRED BY THE CONDITIONS OF THE WORK AND PROJECT, SHALL BE RELATED TO THE ENTIRE PROJECT TO THE EXTENT REQUIRED BY THE CONTRACT DOCUMENTS AND SHALL PROVIDE FOR EXPEDITIOUS AND PRACTICABLE EXECUTION OF THE WORK.

SECTION 01045 - SUBCONTRACTORS

1. THE CONTRACTOR SHALL FURNISH TO THE OWNER THROUGH THE ARCHITECT THE NAMES OF PERSONS OR ENTITIES (INCLUDING THOSE WHO ARE TO FURNISH MATERIALS OR EQUIPMENT FABRICATED TO A SPECIAL DESIGN) PROPOSED FOR EACH PRINCIPAL PORTION OF THE WORK.
2. THE ARCHITECT WILL PROMPTLY REPLY TO THE CONTRACTOR STATING WHETHER OR NOT THE OWNER OR THE ARCHITECT, AFTER DUE INVESTIGATION, HAS REASONABLE OBJECTIONS TO ANY SUCH PROPOSED PERSON OR ENTITY.
3. FAILURE OF THE OWNER OR ARCHITECT TO REPLY PROMPTLY SHALL CONSTITUTE NOTICE OF NO REASONABLE OBJECTION.
4. THE CONTRACTOR SHALL NOT CONTRACT WITH A PROPOSED PERSON OR ENTITY TO WHOM THE OWNER OR ARCHITECT HAS MADE REASONABLE AND TIMELY OBJECTION. THE CONTRACTOR SHALL NOT BE REQUIRED TO CONTRACT WITH ANYONE TO WHOM THE CONTRACTOR HAS MADE REASONABLE OBJECTION.

SECTION 01050 - FIELD ENGINEERING

1. CONTRACTOR SHALL VERIFY LOCATION OF ALL MONUMENTS AND BENCHMARKS SHOWN ON THE DRAWINGS.
2. CONTRACTOR SHALL:
   2.1 PROVIDE FIELD PROFESSIONAL ENGINEERING SERVICES AS SPECIFIED OR REQUIRED TO EXECUTE CONTRACTOR CONSTRUCTION METHOD.
   2.2 DEVELOP AND MAKE ALL DETAIL SURVEYS AND MEASUREMENT NEEDED FOR CONSTRUCTION, INCLUDING ALL WORKING LINES AND ELEVATION.
   2.3 PROVIDE ALL MATERIAL REQUIRED FOR BENCHMARKS, CONTROL POINTS, BATTER BOARDS, GRADE STAKES AND OTHER ITEMS.
   2.4 BE SOLELY RESPONSIBLE FOR ALL LOCATIONS, DIMENSIONS AND LEVELS. NO DATA OTHER THAN WRITTEN ORDERS OF THE ARCHITECT SHALL JUSTIFY DEPARTURE FROM THE DIMENSIONS AND LEVELS REQUIRED BY THE DRAWINGS.

SECTION 01340 - SHOP DRAWINGS, PRODUCT DATA AND SAMPLES

1. SHOP DRAWINGS ARE DRAWINGS, DIAGRAMS, SCHEDULES AND OTHER DATA SPECIALLY PREPARED FOR THE WORK BY THE CONTRACTOR OR A SUBCONTRACTOR, SUB-SUBCONTRACTOR, MANUFACTURER, SUPPLIER OR DISTRIBUTOR TO ILLUSTRATE SOME PORTION OF THE WORK.
2. PRODUCT DATA ARE ILLUSTRATIONS, STANDARD SCHEDULES, PERFORMANCE CHARTS, INSTRUCTIONS, BROCHURES, DIAGRAMS AND OTHER INFORMATION FURNISHED BY THE CONTRACTOR TO ILLUSTRATE MATERIALS OR EQUIPMENT FOR SOME PORTION OF THE WORK.
3. SAMPLES ARE PHYSICAL EXAMPLES, WHICH ILLUSTRATE MATERIALS, EQUIPMENT OR WORKMANSHIP AND ESTABLISH STANDARDS BY WHICH THE WORK WILL BE JUDGED.
4. THE CONTRACTOR SHALL PREPARE AND KEEP CURRENT, FOR THE ARCHITECT'S APPROVAL, A SCHEDULE OF SUBMITTALS WHICH IS COORDINATED WITH THE CONTRACTOR'S CONSTRUCTION SCHEDULE AND ALLOWS THE ARCHITECT REASONABLE TIME TO REVIEW SUBMITTALS. THIS SCHEDULE OF SUBMITTALS SHALL BE SUBMITTED TO THE ARCHITECT WITH THE CONTRACTOR'S CONSTRUCTION SCHEDULE. THE CONTRACTOR SHALL CONFORM TO THE MOST RECENT SCHEDULE.
5. THE PURPOSE FOR THESE SUBMITTALS IS TO DEMONSTRATE FOR THOSE PORTIONS OF THE WORK FOR WHICH SUBMITTALS ARE REQUIRED THE WAY THE CONTRACTOR PROPOSES TO CONFORM TO THE INFORMATION GIVEN AND THE DESIGN CONCEPT EXPRESSED IN THE CONTRACT DOCUMENTS.
6. THE CONTRACTOR SHALL REVIEW, APPROVE AND SUBMIT TO THE ARCHITECT SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND SIMILAR SUBMITTALS REQUIRED BY THE CONTRACT DOCUMENTS WITH REASONABLE PROMPTNESS AND IN SUCH SEQUENCE AS TO CAUSE NO DELAY IN THE WORK OR IN THE ACTIVITIES OF THE OWNER OR OF SEPARATE CONTRACTORS.
7. SUBMITTALS MADE BY THE CONTRACTOR, WHICH ARE NOT REQUIRED BY THE CONTRACT DOCUMENTS, MAY BE RETURNED WITHOUT ACTION.
8. THE CONTRACTOR SHALL PERFORM NO PORTION OF THE WORK REQUIRING SUBMITTAL AND REVIEW OF SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS UNTIL THE ARCHITECT HAS APPROVED THE RESPECTIVE SUBMITTAL. SUCH WORK SHALL BE IN ACCORDANCE WITH APPROVED SUBMITTALS.
9. BY APPROVING AND SUBMITTING SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND SIMILAR SUBMITTALS, THE CONTRACTOR REPRESENTS THAT THE CONTRACTOR HAS DETERMINED AND VERIFIED MATERIALS, FIELD MEASUREMENTS AND FIELD CONSTRUCTION CRITERIA RELATED THERETO OR WILL DO SO, AND HAS CHECKED AND COORDINATED THE INFORMATION CONTAINED WITHIN SUCH SUBMITTALS WITH THE REQUIREMENTS OF THE WORK AND OF THE CONTRACT DOCUMENTS.
10. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR DEVIATIONS FROM REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE ARCHITECT'S APPROVAL OF SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE ARCHITECT IN WRITING OF SUCH DEVIATION AT THE TIME OF SUBMITTAL AND THE ARCHITECT HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS BY THE ARCHITECT'S APPROVAL THEREOF.
11. THE CONTRACTOR SHALL DIRECT SPECIFIC ATTENTION, IN WRITING OR ON RESUBMITTED SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS, TO REVISIONS OTHER THAN THOSE REQUESTED BY THE ARCHITECT ON PREVIOUS SUBMITTALS.
12. THE CONTRACTOR SHALL CHECK, APPROVE, AND SUBMIT WITH SUCH PROMPTNESS AS TO CAUSE NO DELAY IN HIS WORK, ONE (1) ELECTRONIC COPY AND ONE (1) PAPER COPY OF ALL SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS AS CALLED FOR IN THE VARIOUS SECTIONS, DETAILS, AND PARTS TO BE USE IN THE WORK.

SECTION 01350 - SUBSTITUTIONS

1. THE CONTRACTOR SHALL BASE HIS PROPOSAL ON THE EXACT BRANDS, SYSTEMS, METHODS, AND MATERIALS SHOWN, IF THE CONTRACTOR DESIRES TO MAKE SUBSTITUTIONS, HE SHALL LIST THEM WITH HIS BID AND IN HIS CONTRACT. THE LISTING SHALL BE IN SUFFICIENT DETAIL TO AFFORD THE OWNER MEANS OF COMPARISON AND MUST INCLUDE THE MONETARY DIFFERENCE IN CONTRACT PRICE IF THE SUBSTITUTION IS ACCEPTED. SUBSTITUTIONS AFTER SIGNING THE CONTRACT SHALL BE BY CHANGE ORDER ONLY.

SECTION 01360 - RECORD DRAWINGS

1. THE WORK OF THE FOLLOWING TECHNICAL SECTIONS SHALL BE MARKED ON A CLEAN SET OF PLANS, SHOWING THE EXACT LOCATIONS OF THE VARIOUS PARTS OF THE WORK IF DIFFERENT FROM DRAWINGS: MECHANICAL, PLUMBING, AND ELECTRICAL.

SECTION 014000 - QUALITY CONTROL

1. ALL COSTS INCURRED FOR TESTING LABORATORY SERVICES SHALL BE PAID BY THE CONTRACTOR.
2. TESTING LABORATORY SHALL REPORT THE RESULTS OF ALL TESTS, IN WRITING, VIA EMAIL, SIMULTANEOUSLY TO THE FOLLOWING: ARCHITECT, STRUCTURAL ENGINEER, CONTRACTOR.

SECTION 01410 - ERRORS AND OMISSIONS

1. IF ANY ERRORS OR OMISSIONS APPEAR IN THE DRAWINGS, SPECIFICATIONS, OR OTHER DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF SUCH OMISSIONS OR ERRORS PRIOR TO PROCEEDING WITH ANY WORK WHICH APPEARS IN QUESTION.
2. IN THE EVENT OF THE CONTRACTOR'S FAILURE TO GIVE SUCH NOTICE, HE SHALL BE HELD RESPONSIBLE FOR THE RESULTS OF ANY SUCH ERRORS OR OMISSIONS AND THE COST OF RECTIFYING IT.
3. THE CONTRACTOR SHALL HAVE ALL ITEMS OR DETAILS CLARIFIED WITH ARCHITECT PRIOR TO SUBMITTING A BID; OTHERWISE ARCHITECTS INTERPRETATION SHALL BE FINAL.
4. IF THERE IS A CONFLICT BETWEEN THESE SPECIFICATIONS AND THE DRAWINGS THEN THE ARCHITECT WILL MAKE A WRITTEN INTERPRETATION WHICH SHALL BE FINAL AND BINDING UPON THE CONTRACTOR. THE ARCHITECT'S INTERPRETATION SHALL BE REASONABLE AND CONSISTENT WITH THE INTENT EXPRESSED IN THE CONTRACT DOCUMENTS.

SECTION 015000 - CONST. FACILITIES & TEMPORARY UTILITIES

1. THE CONTRACTOR SHALL MAINTAIN AT THE SITE FOR THE OWNER, ONE RECORD COPY OF THE DRAWINGS, SPECIFICATIONS, ADDENDA, CHANGE ORDERS, RFI'S, PROPOSAL REQUESTS, AND OTHER MODIFICATIONS, IN GOOD ORDER AND MARKED CURRENTLY TO RECORD CHANGES AND SELECTIONS MADE DURING CONSTRUCTION, AND IN ADDITION APPROVED SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND SIMILAR REQUIRED SUBMITTALS. THESE SHALL BE AVAILABLE TO THE ARCHITECT AND SHALL BE DELIVERED TO THE ARCHITECT FOR SUBMITTAL TO THE OWNER UPON COMPLETION OF THE WORK.
2. THE CONTRACTOR SHALL PROVIDE THE OWNER AND ARCHITECT ACCESS TO THE WORK IN PREPARATION AND PROGRESS WHEREVER LOCATED.
3. PROVIDE AND MAINTAIN A WEATHER TIGHT OFFICE FOR USE OF OWNER AND CONTRACTOR. THIS OFFICE SHALL BE PAINTED AND IN GOOD PHYSICAL SHAPE, AND PROVIDED WITH WINDOWS WHICH OPERATE, DOORS WITH LOCKS, TABLES, BENCHES, RACKS FOR DRAWINGS AND ELECTRIC LIGHTS. EQUIPMENT IN THE TRAILER IS TO MINIMALLY INCLUDE FIRE EXTINGUISHER, FIRST AID KIT, BOTTLED WATER AND CUPS, AND SHALL ALL BE IN GOOD OPERATING CONDITION.
4. OWNER SHALL PROVIDE TEMPORARY ADEQUATE LIGHT AND POWER SUPPLY FOR CONSTRUCTION.
5. OWNER SHALL PROVIDE TEMPORARY ADEQUATE WATER SUPPLY FOR CONSTRUCTION.
6. SUPPLY ADEQUATE COOL, PURE DRINKING WATER WITH INDIVIDUAL DRINKING CUPS OR SANITARY BUBBLER FOUNTAIN FOR THE USE OF EMPLOYEES ON THE PROJECT. THE QUALITY OF THE DRINKING WATER SHALL MEET THE STANDARDS FOR PUBLIC WATER SUPPLIES OF THE YAVAPAI COUNTY HEALTH DEPARTMENT.
7. PROVIDE A CELLULAR JOB TELEPHONE FOR THE DURATION OF THE PROJECT.
8. PROVIDE PROPER SANITARY AND ADEQUATE TOILET FACILITIES FOR THE USE OF ALL WORKMEN EMPLOYED ON THE PROJECT, LOCATED WHERE DIRECTED, AND ENFORCE THEIR USE BY ALL PERSONNEL ON THE PROJECT. ENCLOSE AND WEATHERPROOF TOILETS AND KEEP IN A SANITARY CONDITION AT ALL TIMES. ALSO PROVIDE A TRASH BIN.
9. PROVIDE ADEQUATE FIRE EXTINGUISHERS ON THE PREMISES DURING THE COURSE OF CONSTRUCTION, OF THE TYPE AND SIZES RECOMMENDED BY THE NFPA TO CONTROL FIRES RESULTING FROM THE PARTICULAR WORK BEING PERFORMED.

Nov 01, 2018 - 11:40am

REVISIONS	BY

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REGISTERED ARCHITECT
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25646
W. ALAN KENSON
Date Signed 11/01/18
ARIZONA
EXPIRES: 6/30/21

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DRAWING: Specifications

PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ. 86301

APN: 109-02-035

DRAWN BY: L.O.
CHECKED BY: W.A.K.
DATE: Oct 30th, 2018
JOB NO.: 710
SHEET:

A16.0

Specifications Continued

12.	PROVIDE 6 FOOT HIGH WOVEN WIRE TEMPORARY FENCING AROUND THE CONSTRUCTION AREA. FENCING SHALL BE ERECTED AND SECURED IN A MANNER TO WITHSTAND THE FORCES TO WHICH IT MAY BE SUBJECTED.
13.	PROTECT ALL ELEMENTS OF CONSTRUCTION FROM ANY DANGER OF DAMAGE FROM WIND, RAIN, DUST, FROST, FREEZING TEMPERATURES, OR OTHER INFILTRATION OF WEATHER.
14.	EXERCISE ALL POSSIBLE CARE TO CONTROL EXCESSIVE NOISE AND DUST DURING THE CONSTRUCTION TO KEEP THESE PROBLEMS TO A MINIMUM. TRAFFIC OR CONSTRUCTION AREAS SHALL BE SPRINKLED WITH WATER OR CHEMICALS REQUIRED AND IN ACCORDANCE WITH APPLICABLE COUNTY REQUIREMENTS. CONTRACTOR SHALL SECURE APPROPRIATE DUST PERMITS PRIOR TO SITE WORK BEGINNING.
15.	CONTRACTOR SHALL BE RESPONSIBLE FOR THE SECURITY OF CONSTRUCTION, CONSTRUCTION MATERIALS AND EQUIPMENT ON THE SITE.
16.	NO SIGNS SHALL BE PERMITTED ON PROJECT WITHOUT EXPRESS APPROVAL OF OWNER, EXCEPT FOR SAFETY SIGNS.

SECTION 016000 - MATERIAL AND EQUIPMENT

1.	DELIVER ALL MANUFACTURED MATERIALS IN THE ORIGINAL PACKAGES, CONTAINERS OR BUNDLES (WITH THE SEALS UNBROKEN) BEARING THE NAME OR IDENTIFICATION MARK OF THE MANUFACTURER.
2.	STORE ALL MATERIALS IN SUCH MANNER AS NECESSARY TO PROPERLY PROTECT IT FROM DAMAGE. MATERIALS OR EQUIPMENT DAMAGED BY HANDLING, WEATHER, DIRT OR FROM ANY OTHER CAUSE WILL NOT BE ACCEPTABLE.
3.	STORE MATERIAL SO AS TO CAUSE NO OBSTRUCTIONS, STORED OFF SIDEWALKS, ROADWAYS AND UNDERGROUND SERVICES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL MATERIAL AND EQUIPMENT FURNISHED UNDER THE CONTRACT.
4.	WHERE NOT MORE SPECIFICALLY DESCRIBED IN ANY OF THE VARIOUS SECTIONS OF THESE SPECIFICATIONS, WORKMANSHIP SHALL CONFORM TO ALL OF THE METHODS AND OPERATIONS OF BEST STANDARDS AND ACCEPTED PRACTICES OF THE TRADE OR TRADES INVOLVED, AND SHALL INCLUDE ALL ITEMS OF FABRICATION, CONSTRUCTION OR INSTALLATION REGULARLY FURNISHED OR REQUIRED FOR COMPLETION.
5.	ALL WORK SHALL BE EXECUTED BY MECHANICS SKILLED IN THEIR RESPECTIVE LINES OF WORK.
6.	WHEN A SPECIFIC MANUFACTURER, TRADE NAME OR MATERIAL IS SPECIFIED, OR INDICATED, IT IS TO ESTABLISH A STANDARD OF QUALITY AND SHALL NOT BE CONSTRUED AS LIMITING COMPETITION. IF THE CONTRACTOR DESIRES TO USE A MANUFACTURER, TRADE NAME OR MATERIAL OTHER THAN THAT SPECIFIED, HE SHALL REQUEST APPROVAL OF SUCH SUBSTITUTION, IN WRITING, TO THE ARCHITECT. ALL SUCH REQUESTS SHALL BE SUBMITTED PRIOR TO ORDERING MATERIALS.

SECTION 01650 - BUILDING ADDRESS

1.	CONTRACTOR SHALL PROVIDE AND INSTALL THE BUILDING ADDRESS NUMBER ON THE BUILDING AS REQUIRED BY PRESCOTT FIRE DEPARTMENT AND THE CITY OF PRESCOTT.

SECTION 017000 - PROJECT CLOSE-OUT

1.	CONTRACTOR SHALL PROVIDE RECORD DRAWINGS WHICH SHALL CLEARLY SHOW ALL DIFFERENCES BETWEEN THE CONTRACT WORK AS DRAWN AND AS INSTALLED FOR ALL WORK, AS WELL AS WORK ADDED TO THE CONTRACT WHICH IS NOT SHOWN ON THE CONTRACT DRAWINGS.
2.	CONTRACTOR SHALL SUBMIT A FULLY EXECUTED "CERTIFICATE OF SUBSTANTIAL COMPLETION", AIA DOCUMENT G704 (LATEST EDITION) FOR OWNER'S AND ARCHITECT'S SIGNATURES.
3.	UPON COMPLETION OF THE INSTALLATION OF ALL WORK, AND PRIOR TO FINAL INSPECTION, FURNISH ELECTRONIC COPIES OF OWNER'S CLOSE-OUT MANUAL. THE OWNER'S MANUAL SHALL INCLUDE: 1) ALL SUBCONTRACTOR'S NAMES, ADDRESS, PHONE NUMBER AND CONTACT, 2) GENERAL SUBCONTRACTOR'S ONE YEAR WARRANTY, 3) ALL SUBCONTRACTOR'S WARRANTIES, 4) COPY OF THE FINAL CERTIFICATE OF OCCUPANCY, 5) MANUFACTURER'S CUT SHEETS AND PARTS LISTS OF ALL LIGHT FIXTURES, ELECTRICAL GEAR, MECHANICAL AND PLUMBING EQUIPMENT, 6) MECHANICAL CONTRACTOR'S TEST AND BALANCE REPORT. PROVIDE A TABLE OF CONTENTS AND INDEX TABS FOR EACH HEADING.
4.	INSTRUCT OWNER'S PERSONNEL IN OPERATION, ADJUSTMENT, AND MAINTENANCE OF EQUIPMENT AND SYSTEMS.
5.	SUBMIT ALL REQUIRED GUARANTEES TO THE OWNER. PROVIDE WRITTEN GUARANTEE IN ACCORDANCE WITH SUBPARAGRAPH 13.2.2 OF THE GENERAL CONDITIONS. IN ADDITION, PROVIDE ALL WRITTEN GUARANTEES OR CERTIFICATES REQUIRED AS SPECIFIED IN THESE SPECIFICATIONS.
6.	NEITHER FINAL PAYMENT NOR ANY REMAINING RETAINED PERCENTAGE WILL BE PAID TO CONTRACTOR UNTIL ALL OF THE ABOVE PROVISIONS ARE MET AND ALL REQUIREMENTS AS OUTLINED IN THE "GENERAL CONDITION OF THE CONTRACT FOR CONSTRUCTION" AIA DOCUMENT A201 (LATEST EDITION), PARAGRAPH 9.10.2

SECTION 01710 - CLEANING

1.	SAFETY AND INSURANCE STANDARDS: MAINTAIN PROJECT IN ACCORDANCE WITH THE FOLLOWING SAFETY AND INSURANCE STANDARDS: STATE INDUSTRIAL COMMISSION (OF ARIZONA) OSHA
2.	FIRE PROTECTION STORE VOLATILE WASTE IN COVERED METAL CONTAINERS, AND REMOVE FROM PREMISES DAILY.
3.	POLLUTION CONTROL: CONDUCT CLEAN-UP AND DISPOSAL OPERATIONS TO COMPLY WITH LOCAL ORDINANCES AND ANTI-POLLUTION LAWS. BURNING OR BURYING OF RUBBISH AND WASTE MATERIAL ON THE PROJECT SITE IS NOT PERMITTED DISPOSAL OF VOLATILE FLUID WASTE (SUCH AS MINERAL SPIRITS, OIL, OR PAINT THINNER) IN STORM OR SANITARY SEWER SYSTEMS OR INTO STREAMS OR WATERWAYS IS NOT PERMITTED.
4.	USE ONLY CLEANING MATERIALS RECOMMENDED BY MANUFACTURER OF SURFACE TO BE CLEANED.
5.	THE CONTRACTOR SHALL KEEP THE PREMISES AND SURROUNDING AREA FREE FROM ACCUMULATION OF WASTE MATERIALS OR RUBBISH CAUSED BY OPERATIONS UNDER THE CONTRACT. AT COMPLETION OF THE WORK THE CONTRACTOR SHALL REMOVE FROM AND ABOUT THE PROJECT WASTE MATERIALS, RUBBISH, THE CONTRACTOR'S TOOLS, CONSTRUCTION EQUIPMENT, MACHINERY AND SURPLUS MATERIALS.
6.	IF THE CONTRACTOR FAILS TO CLEAN UP AS PROVIDED IN THE CONTRACT DOCUMENTS, THE OWNER MAY DO SO AND THE COST THEREOF SHALL BE CHARGED TO THE CONTRACTOR.
7.	PROVIDE FOR THE DISPOSAL OF ALL WASTE PRODUCTS, TRASH, DEBRIS, ETC., AND MAKE NECESSARY ARRANGEMENT FOR LEGAL DISPOSAL OF IT OFF THE SITE.
8.	MAKE BUILDINGS READY FOR OCCUPANCY IN ALL RESPECTS. LAY HEAVY BUILDING PAPER IN MAIN CIRCULATION AREAS TO PROTECT THE FLOORS UNTIL FINAL INSPECTION AND ACCEPTANCE.
9.	ALL EXISTING IMPROVEMENTS, INSIDE OR OUTSIDE THE PROPERTY WHICH ARE DISTURBED, DAMAGED OR DESTROYED BY THE WORK UNDER THE CONTRACT SHALL BE RESTORED TO THE CONDITION IN WHICH THEY ORIGINALLY WERE, OR TO THE SATISFACTION OF THE ARCHITECT.
10.	CONTRACTORS AND THEIR EMPLOYEES WILL NOT BE ALLOWED TO PARK ON CONCRETE FLOORS OR SLABS. IF ANY CONTRACTOR OR HIS EMPLOYEE DOES SO, THEY SHALL BE RESPONSIBLE FOR THE COST OF CLEANING THE SLAB TO THE FULL SATISFACTION OF THE OWNER AND AT NO COST TO THE OWNER.

DIVISION 2 - SITEWORK

SECTION 02075 DUST (PARTICULATE MATTER) CONTROL

1.	THE GENERAL CONTRACTOR AND ALL OF THEIR SUBCONTRACTORS SHALL MEET ALL LOCAL, COUNTY, STATE, AND FEDERAL REGULATIONS AND SHALL BE SOLELY RESPONSIBLE FOR DUST CONTROL ON THE SITE FOR THE ENTIRE DURATION OF CONSTRUCTION AND SHALL STRICTLY CONFORM TO THESE REGULATIONS.

SECTION 02100 - SITE PREPARATION AND GRADING

1.	COMPLETE SOIL INVESTIGATION REPORT IS AVAILABLE FROM THE ARCHITECT FOR BIDDER'S INFORMATION. NEITHER THE OWNER NOR THE ARCHITECT GUARANTEES THE ACCURACY OF THE REPORT NOR THE CONTINUITY OF THE SOIL CONDITIONS INDICATED AT BORING LOCATIONS. BIDDERS ARE FULLY RESPONSIBLE FOR INTERPRETATIONS OR CONCLUSIONS THEY DRAW FROM THE SOIL REPORT.
2.	UNLESS OTHERWISE INDICATED, GIVE PROJECT SITE AREAS OUTSIDE OF BUILDING UNIFORM SLOPES BETWEEN POINTS FOR WHICH FINISHED GRADES ARE INDICATED OR BETWEEN SUCH POINTS AND EXISTING ESTABLISHED GRADE, EXCEPT PROVIDE VERTICAL CURVES OR ROUNDINGS AT ABRUPT CHANGES IN SLOPES.
3.	DO ALL GRADING REQUIRED TO BRING THE ENTIRE PROJECT AREA TO THE UNDERSIDE OF THE RESPECTIVE SURFACING AS DETERMINED BY THE FINISHED GRADES.
4.	COMPACTION OF FILLS AND FOUNDATION SOILS SHALL BE IN HORIZONTAL LIFTS NOT EXCEEDING 6" IN THICKNESS. COMPACT TO THE PERCENT OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH REQUIREMENTS OF THE SOILS REPORT.
5.	AT AREAS DESIGNATED AS PLANTING OR PLANTERS, OWNER SHALL PLACE TOPSOIL TO A DEPTH OF 12" TO REQUIRED ELEVATION.

SECTION 02220 - STRUCTURE EXCAVATION AND BACKFILLING

1.	SITE AND BUILDING STAKING SHALL BE INCLUDED IN THE CONTRACTOR'S BASE BID.
2.	LAYOUT OF ALL WORK UNDER THIS SECTION SHALL BE MADE BY A LICENSED LAND SURVEYOR OR CIVIL ENGINEER. IF ANY DISCREPANCIES ARE FOUND BY THE SURVEYOR BETWEEN THE DRAWINGS AND ACTUAL CONDITIONS AT THE SITE, THE CONTRACTOR SHALL IMMEDIATELY REQUEST CLARIFICATION FROM THE ARCHITECT BEFORE PROCEEDING.
3.	BEFORE BEGINNING THE LAYOUT WORK,THE CONTRACTOR SHALL HAVE A FULL AND COMPLETE SET OF THE MOST UP-TO-DATE PLANS TO WORK FROM. THE CONTRACTOR AND LAND SURVEYOR SHALL LAY OUT THE BUILDING AND SITE PER THE FULL AND COMPLETE SET, NOT JUST THE LATEST CIVIL PLANS.
4.	THE LICENSED LAYOUT CONTRACTOR SHALL LAY OUT THE BUILDING PERIMETER PER THE MOST CURRENT ARCHITECTURAL FLOOR PLAN. STAKING CONTRACTOR SHALL CONTACT ARCHITECT AND REQUEST THE LATEST AUTOCAD FLOOR PLAN AND SITE PLAN.
5.	THE LICENSED LAYOUT CONTRACTOR SHALL THOROUGHLY COMPARE THE ARCHITECTURAL SITE PLAN AND THE CIVIL GRADING AND DRAINAGE PLAN FOR ANY DISCREPANCIES. IF ANY DISCREPANCIES ARE FOUND BY THE SURVEYOR BETWEEN THESE PLANS, THEN THE CONTRACTOR SHALL IMMEDIATELY REQUEST A CLARIFICATION FROM THE ARCHITECT BEFORE PROCEEDING.
6.	THE CONTRACTOR'S SUPERINTENDENT AND THE CONCRETE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR DOUBLE CHECKING THE FIELD STAKING OF THE BUILDING LOCATION AND BUILDING LAYOUT PRIOR TO EXCAVATING FOR FOOTINGS.
7.	IN THE EVENT THAT ANY UNUSUAL CONDITION IS ENCOUNTERED DURING THE GRADING OPERATIONS, THE ARCHITECT SHALL BE IMMEDIATELY NOTIFIED.
8.	CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE LOCATIONS OF ALL EXISTING UTILITIES AND SHALL TAKE PRECAUTIONS AS NECESSARY TO PREVENT DAMAGE THERETO AND SHALL BE RESPONSIBLE FOR PAYING FOR REPAIRING ALL DAMAGED UTILITIES AT NO ADDITIONAL COST TO THE OWNER.
9.	ANY DAMAGE TO ADJACENT PROPERTIES, STREET, AND THE LIKE CAUSED BY OPERATIONS OF THIS SECTION SHALL BE RESTORED TO ORIGINAL CONDITION WITHOUT ADDITIONAL COST TO THE OWNER.
10.	SHOULD ADDITIONAL FILL MATERIAL BE REQUIRED, IT SHALL MEET THE REQUIREMENTS OF THE SOILS REPORT.
11.	THE APPROVED AND LICENSED TESTING SERVICE SHALL INSPECT AND APPROVE SUB GRADE BEFORE FURTHER CONSTRUCTION WORK IS PERFORMED THEREON. SEE SECTION 02100 FOR SOILS TESTING REQUIREMENTS.
12.	EXCAVATIONS FOR FOUNDATIONS AND FOOTINGS SHALL HAVE CLEAN VERTICAL WALLS, ALL CORNERS SQUARED UP, KEEP ENTIRE EXCAVATION FREE FROM ANY LOOSE MATERIAL EXCAVATION SHALL CONFORM TO DIMENSIONS AND ELEVATIONS INDICATED WITH ALLOWANCES FOR ERECTION OF FORMS, SHORING, WATERPROOFING, AND INSPECTION OF FOOTINGS.
13.	REMOVE ALL EXCESS EXCAVATED MATERIAL (IF OCCURS) FROM THE GROUNDS AND LEGALLY DISPOSE OF SAME AT NO ADDITIONAL EXPENSE TO THE OWNER.
14.	AFTER COMPLETION OF THE FOUNDATIONS, WALLS AND OTHER CONSTRUCTION, AND REMOVAL OF FORMS, CLEAN THE EXCAVATIONS OF TRASH AND DEBRIS.
15.	BACKFILL AND COMPACT PIPE AND CONDUIT TRENCHES PER THE SOILS REPORT.
16.	COMPACTION OF UNDER-SLAB FILL AND BACKFILL SHALL BE IN HORIZONTAL LIFTS NOT EXCEEDING 6" IN THICKNESS. COMPACT TO THE PERCENT OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH REQUIREMENTS OF SOILS REPORT. GRADE UNDER-SLAB FILL TO A TOLERANCE OF 1/4" IN TEN FEET.

SECTION 02510 - PAVING - ASPHALTIC CONCRETE

1.	PROVIDE ASPHALTIC CONCRETE PAVING IN ONE COURSE, COMPACTED TO A THICKNESS AS SHOWN ON GRADING & DRAINAGE PLANS AND AS REQUIRED BY THE SOILS REPORT. IF THERE IS A CONFLICT BETWEEN THE TWO, THEN THE THICKEST SECTIONS SHALL BE USED.
2.	MAXIMUM SLOPE (IN ALL DIRECTIONS) OF PAVING WITHIN A HANDICAP PARKING STALL OR AISLE SHALL NOT EXCEED 1:50 (2%). CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING THAT THE GRADING & DRAINAGE PLAN DOES NOT EXCEED THESE REQUIREMENTS, PRIOR TO FINAL GRADING WORK.
3.	ASPHALT CEMENT SHALL CONFORM TO THE REQUIREMENTS OF AI PCD-7 GRADE AR 4000 OR AR 8000 BASED ON WEATHER CONDITIONS.
4.	PLACING EQUIPMENT: THE POWER MACHINE FOR SPREADING, SHAPING, AND FINISHING SHALL BE OF A SELF-CONTAINED UNIT AND SHALL BE CAPABLE OF PRODUCING THE REQUIRED DEGREE OF SMOOTHNESS.
5.	MINERAL AGGREGATE SHALL CONFORM TO MAG TYPE 19MM
6.	ROLLING EQUIPMENT: PROVIDE ADEQUATE POWER-DRIVE ROLLING EQUIPMENT, WEIGHING NOT LESS THAN 8 TONS.
7.	PROTECTION OF PAVEMENT: THE PAVEMENT SHALL NOT BE USED FOR VEHICULAR TRAFFIC OF ANY KIND UNTIL THE PAVEMENT HAS COOLED SUFFICIENTLY AFTER FINAL ROLLING.

SECTION 02580 - TRAFFIC CONTROL MARKINGS

1.	PROVIDE ALL TRAFFIC CONTROL MARKINGS FOR THE DELINEATION OF TRAFFIC LANES AND FOR PARKING AREAS. PAINTING IS TO INCLUDE ALL STRIPING, DIRECTIONAL ARROWS, CROSS WALKS, LETTERING, RESTRICTION, HANDICAP STALLS, FIRE LANES, ETC. THAT MAY BE REQUIRED FOR TRAFFIC CONTROL. COLORS TO BE WHITE, EXCEPT AT HANDICAP STALLS USE YELLOW.
2.	PAINT SHALL CONFORM TO THE REQUIREMENTS OF FS TT-P-85 FOR TRAFFIC LINE PAINTS.

DIVISION 3 - CONCRETE

SECTION 03061 - INTEGRAL COLORED CONCRETE FLATWORK

1.	REFERENCES: 1.1 AMERICAN CONCRETE INSTITUTE ACI 301 - STRUCTURAL CONCRETE FOR BUILDINGS. ACI 306 - COLD WEATHER CONCRETING. 1.2 AMERICAN SOCIETY FOR TESTING AND MATERIALS: ASTM C309 - LIQUID MEMBRANE-FORMING COMPOUNDS FOR CURING CONCRETE. ASTM C979 - PIGMENTS FOR INTEGRALLY COLORED CONCRETE.
2.	QUALITY ASSURANCE: 2.1 PERFORM WORK IN ACCORDANCE WITH ACI 301, SECTION 6 - ARCHITECTURAL CONCRETE. 2.2 CONFORM TO ACI 306 DURING COLD WEATHER. 2.3 OBTAIN EACH MATERIAL FROM SAME SOURCE AND MAINTAIN HIGH DEGREE OF CONSISTENCY IN WORKMANSHIP THROUGHOUT PROJECT. 2.4 INSTALLER QUALIFICATIONS: CONCRETE WORK SHALL BE BY FIRM WITH FIVE YEARS EXPERIENCE WITH WORK OF SIMILAR SCOPE AND QUALITY.
3.	FINISH AT EXTERIOR FLATWORK SHALL BE LIGHT - BROOMED, PULL BROOM ACROSS FRESHLY TROWELED CONCRETE TO PRODUCE LIGHT TEXTURE IN STRAIGHT LINES PERPENDICULAR TO MAIN LINE OF TRAFFIC. DO NOT DAMPEN BROOMS.

SECTION 03100 - CONCRETE FORMWORK

1.	DESIGN THE FORMWORK IN ACCORDANCE WITH ACI 301 AND 347
2.	PROVIDE FORMS FOR ALL CONCRETE, EXCEPT THAT AUTHORIZED TO BE PLACED DIRECTLY AGAINST EARTH IN TRENCHES.
3.	THE OFFSET BETWEEN ADJACENT PIECES OF FORMWORK FACING MATERIAL SHALL NOT EXCEED CLASS A (1/8") SURFACE PER ACI-117-90
4.	CONSTRUCT OF PLYWOOD OR APPROVED PATENTED FORMWORK SYSTEMS WITH PLYWOOD OR METAL FACINGS WITH AS LARGE A FACE DIMENSION AS POSSIBLE.
5.	INSTALL ALL BUCKS, NAILING BLOCKS, INSERTS, ANCHORS, AS REQUIRED. FORM ALL GROOVES, SEATS, REGLETS, ETC., AS REQUIRED TO RECEIVE THE MATERIAL AND EQUIPMENT INDICATED.
6.	CONTRACTOR SHALL INSTALL FORM OIL PER MANUFACTURER'S RECOMMENDATIONS.
7.	ALL DIRT, CHIPS, SAWDUST, RUBBISH, WATER, ETC., SHALL BE COMPLETELY REMOVED FROM THE FORMS BEFORE ANY CONCRETE IS DEPOSITED THERE IN.
8.	NO WOODEN TIES OR BLOCKING SHALL BE LEFT IN CONCRETE.
9.	AFTER FORMS ARE STRIPPED, THE CONCRETE, WHERE EXPOSED TO VIEW SHALL BE TREATED AS FOLLOWS: 1.) REMOVE ALL MORTAR FINS AND REPAIR ROCK POCKETS OR HONEYCOMB. 2.) SACK FINISH TO FILL MINOR VOIDS AND PITS IN THE SURFACE.

SECTION 03300 - CONCRETE, CAST-IN-PLACE

1.	STANDARD FOR MEASURING, MIXING, TRANSPORTING AND PLACING OF CONCRETE SHALL BE ACI-304. STANDARD FOR MEASURING, MIXING AND DELIVERY OF READY MIXED CONCRETE SHALL BE ASTM C-94, EXCEPT THAT TIME IN MIXER AFTER WATER HAS BEEN ADDED AT BATCH PLANT IS LIMITED TO 1-1/2 HOURS MAXIMUM. IF THIS LIMIT IS EXCEEDED, THE ARCHITECT HAS THE RIGHT TO REJECT THE ENTIRE LOAD AND IT WILL BE ORDERED REMOVED FROM THE SITE.
2.	EXTERIOR CONCRETE FLATWORK THICKNESSES AND REINFORCING SHALL BE AS FOLLOWS: 2.1 AT ALL PEDESTRIAN SIDEWALKS INSTALL 4" CAST-IN-PLACE CONCRETE OVER 4" COMPACTED ABC FILL OVER COMPACTED SUB-GRADE. TURN DOWN ALL EDGES OF SIDEWALKS A MINIMUM OF 8" BELOW ADJACENT FINISH GRADE.
3.	TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS SHALL CONFORM TO ALL REQUIREMENTS OF ACI 117, STANDARD SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS, PUBLISHED BY THE AMERICAN CONCRETE INSTITUTE, DETROIT MICHIGAN.
4.	FLOOR FLATNESS / LEVELNESS REQUIREENTS: 4.1 FLOOR FLATNESS (FF) CLASSIFICATIONS SHALL BE PER ASTM E 1155 (LATEST EDITION) (STANDARD TEST METHOD FOR DETERMINING FLOOR FLATNESS AND LEVELNESS USING THE F-NUMBER SYSTEM), SHALL MEET THE SPECIFIED OVERALL VALUES PROVIDED AS FOLLOWS: 4.2 ALL SLABS SHALL HAVE A COMPOSITE FLATNESS (FF) OF 50 AND A COMPOSITE LEVELNESS (FL) OF 30. 4.3 THE FLOOR FLATNESS AND LEVELNESS SHALL BE TESTED WITHIN 8 HOURS AFTER COMPLETION OF THE FINAL TROWELING OPERATION ACCORDING TO ASTM E1155 -96 STANDARD TEST METHOD FOR DETERMINING FLOOR FLATNESS AND FLOOR LEVELNESS NUMBERS, BY AN INDEPENDENT TESTING AGENCY EXPERIENCED WITH THE TESTING PROCEDURE AND POSSESSING THE NECESSARY EQUIPMENT. ALL FLATWORK THAT IS DETERMINED TO BE OUT OF TOLERANCES SHALL BE REMOVED AND REPLACED AT NO COST TO THE OWNER. 4.4 THE MINIMUM LOCAL VALUE (MLV) FOR ALL FLOORS SHALL BE 2/3 OF THE SPECIFIED OVERALL VALUES. THE MLV IS THE MINIMUM QUALITY FLOOR THAT WILL BE ACCEPTED BY THE OWNER WITHOUT REPAIR.
5.	CONCRETE TESTS WILL BE MADE BY AN APPROVED INDEPENDENT TESTING LABORATORY AT THE DIRECTION OF THE ARCHITECT. APPROXIMATELY ONE TEST WILL BE MADE FOR EACH 50 CUBIC YARDS OF EACH CLASS OF CONCRETE WHEN PLACED IN LARGE CONTINUOUS POURS. AT LEAST ONE TEST SHALL BE MADE OF POURS LESS THAN 50 CUBIC YARDS AT THE DISCRETION OF THE ARCHITECT. TESTS SHALL BE MADE FOR 7 DAY, 28 DAY STRENGTH AND 45 DAY STRENGTH.
6.	FINISHES: ALL CONCRETE SURFACES NOT EXPOSED TO PUBLIC VIEW SHALL HAVE ROUGH FORM FINISH. ALL EXPOSED SURFACES SHALL HAVE SMOOTH FORM FINISHES.
7.	EXPANSION / CONSTRUCTION JOINT FILLER: ASTM D-1751, NON EXTRUDED, RESILIENT TYPE, USE EXPANSION / CONSTRUCTION JOINT FILLER AT; INTERRUPTING OBJECTS OR COLUMNS; PERIMETER OF ALL SLABS ON GRADE THAT BUTT INTO WALLS, AND AT ALL LOCATIONS SHOWN IN THE STRUCTURAL PLANS. AT ALL EXPANSION / CONSTRUCTION JOINTS USE WR MEADOWS SNAP-CAP, 1/2" W x 1/2" D. OVER THE EXPANSION JOINT MATERIAL. REMOVE SNAP-CAP AND DISCARD PRIOR TO INSTALLING SEALANT.
8.	FINISH CONCRETE FLATWORK AS FOLLOWS: 8.1 SMOOTH HARD TROWEL FINISH AT ALL INTERIOR FLATWORK. 8.2 LIGHT BROOM FINISH AT ALL EXTERIOR FLATWORK. 8.3 EXTERIOR CONCRETE SIDEWALKS, STEPS AND LANDINGS TO HAVE A NON-SLIP FINISH TO PROVIDE A COEFFICIENT OF FRICTION OF 0.6 OR GREATER.

Nov 01, 2018 - 11:40am

REVISIONS	BY

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DATE: Oct 30th, 2018
JOB NO.: 710
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A16.1

Specifications Continued

9.	CROSS SLOPE OF ALL CONCRETE SIDEWALKS SHALL NOT EXCEED 1:48. IF CONTRACTOR DETERMINES THAT THE GRADING & DRAINAGE PLAN SHOWS GRADES THAT EXCEED THIS SLOPE, THEN CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY, PRIOR TO ROUGH GRADING THE AREA.
10.	SLOPE OF CONCRETE SIDEWALKS, ALONG ITS LENGTH, SHALL NOT EXCEED 1:20 (5%). IF CONTRACTOR DETERMINES THAT THE GRADING & DRAINAGE PLAN SHOWS GRADES THAT EXCEED THIS SLOPE THEN CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY, PRIOR TO ROUGH GRADING THE AREA.
11.	PLACE CONSTRUCTION JOINTS AND CONTROL JOINTS WHERE REQUIRED. REINFORCING SHALL BE CONTINUOUS THROUGH CONSTRUCTION JOINTS AND CONTROL JOINTS. NO CONCRETE POUR SHALL BE LONGER THAN 100 FEET OR MORE THAN 900 SQUARE FEET IN AREA. PROVIDE SHEAR KEYS AS DETAILED. AT ALL EXTERIOR SLABS-ON-GRADE PROVIDE A 1/2" WIDE CONTROL JOINT (SEE PARAGRAPH 7 ABOVE) WHEREVER SLABS ABUT VERTICAL CONSTRUCTION ELEMENTS, WHETHER INDICATED OR NOT.
12.	SAW-CUT FLOOR SLABS AS SOON AS POSSIBLE AFTER FINISHING USING A SAW BLADE THAT HAS A TRIANGULAR ARBOR CONFIGURATION TO REDUCE EDGE RAVELING OR DISLODGING AGGREGATES. SAW-CUT CONTROL JOINTS IN FLOOR TO A DEPTH OF ONE-FIFTH OF THE SLAB THICKNESS AT INTERVALS NOT TO EXCEED 12 FEET ON CENTER IN EACH DIRECTION, UNLESS APPROVED BY THE ARCHITECT IN WRITING PRIOR TO POURING OF THE FLATWORK. CONTRACTOR SHALL PROVIDE A SCALED DRAWING SHOWING THE LAYOUT OF SAW-CUT CONTROL JOINTS, AT ALL FLATWORK, TO ARCHITECT FOR APPROVAL PRIOR TO POURING THE FLATWORK.
13.	WHEN REQUIRED TO CORRECT ANY UNSATISFACTORY FLOOR SURFACE DUE TO UNDUE SETTLEMENT, SHRINKAGE OR CRACKING, LEVELING AGENT SHALL BE USED, EXCEPT AT AREAS THAT ARE EXPOSED TO VIEW. THIS WORK SHALL BE PERFORMED AT NO COST TO THE OWNER.
14.	WHEN REQUIRED TO CORRECT ANY SLAB ON GRADE CURLING, THE CONTRACTOR SHALL GRIND FLOOR, AS REQUIRED FOR SPECIFIC FLOOR FINISH AT NO COST TO THE OWNER.

SECTION 03400 - CONCRETE CURING COMPOUND

1.	ALL INTERIOR SLABS ON GRADE ARE TO BE CURED ACCORDING TO ACI.
2.	CURING COMPOUND IS TO MEET ASTM C 309, LIQUID MEMBRANE FORMING COMPOUNDS FOR CURING CONCRETE.
3.	CURING COMPOUND IS TO BE DAYTON SUPERIOR, CITY CLEAR RESIN CURE J11W, OR APPROVED EQUAL.
4.	CURING COMPOUND SHALL BE APPLIED BY LOW PRESSURE SPRAY EQUIPMENT PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
5.	APPLY IMMEDIATELY AFTER ALL SURFACE WATER HAS DISAPPEARED AND THE SURFACE CANNOT BE MARRED. ALL APPLICATION EQUIPMENT AND TOLLS SHALL BE THOROUGHLY CLEANED PRIOR TO USE TO AVOID CONTAMINATION. DO NOT THIN. APPLY UNIFORMLY WITHOUT PUDDLING. DO NOT DELAY IN APPLYING THE CURING COMPOUND!
6.	COVERAGE RATE FOR EXTERIOR BROOM FINISHED CONCRETE IS TO BE 200 SF/GAL., FOR STEEL TROWELED, TIGHTLY FINISHED CONCRETE IS TO BE 400 SF/GAL.
7.	INSTALLING CONTRACTOR AND THEIR INSTALLING EMPLOYEES SHALL BE REQUIRED TO CAREFULLY READ THE MSDS SHEETS PRIOR TO USING PRODUCT. A COPY OF THE MSDS SHEETS SHALL BE ON JOBSITE DURING THE ENTIRE INSTALLATION FOR EMPLOYEES EXAMINATION.
8.	CURING COMPOUNDS WILL BE REQUIRED TO BE REMOVED FROM ALL INTERIOR SLABS ON GRADE WITH HIGH PRESSURE WATER BLASTING, OR CHEMICAL REMOVAL MAY BE NECESSARY. CONTRACTOR SHALL TEST THE SLABS BY PLACING A FEW DROPS OF WATER ON THE SURFACE AND SEE IF THE WATER IS READILY ABSORBED INTO THE CONCRETE. IF IT IS READILY ABSORBED, THEN ADDITIONAL CLEANING WILL NOT BE REQUIRED.

DIVISION 4 - MASONRY

SECTION 04100 - MORTAR AND GROUT

1.	NON-SHRINK GROUT SHALL BE GRADE B AND BE PROVIDED IN ACCORDANCE WITH ASTM 1107-89A.
2.	WET MORTARBOARD BEFORE LOADING AND COVER MORTAR TO RETARD DRYING WHEN NOT BEING USED. USE ALL MORTAR AND GROUT WITHIN ONE HOUR OF INITIAL MIXING AND USE NO MORTAR OR GROUT AFTER IT HAS BEGUN TO SET UP OR AFTER IT HAS BECOME HARSH OR NON-PLASTIC.
3.	CEMENT FOR MORTAR AND GROUT SHALL BE TYPE II, LOW ALKALI PORTLAND CEMENT CONFORMING TO ASTM C-150, STANDARD GRAY. ALL CEMENT SHALL BE FROM ONE MANUFACTURER.
4.	AGGREGATE FOR GROUT SHALL CONFORM TO ASTM D-448, COARSE AGGREGATE, SIZE NO. 8.
5.	AGGREGATE FOR MORTAR SHALL CONFORM TO ASTM C-144, EXCEPT THAT NO LESS THAN 3% OR MORE THAN 10% SHALL PASS A NO. 100 SIEVE.
6.	SAND FOR GROUT SHALL CONFORM TO ASTM C-404, FINE AGGREGATE, SIZE NO. 1.
7.	HYDRATED LIME SHALL CONFORM TO ASTM C-207, TYPE S.
8.	MORTAR FOR CONCRETE UNIT MASONRY SHALL BE FRESHLY PREPARED AND UNIFORMLY MIXED IN RATIO ONE PART PORTLAND CEMENT, 1/2 PART LIME, 3-4 PARTS SAND, AND SHALL CONFORM TO ASTM C-270. TYPE S.
9.	FINE GROUT SHALL BE COMPOSED OF ONE PART PORTLAND CEMENT, TO WHICH MAY BE ADDED 1/10 PART HYDRATED LIME OR LIME PUTTY, AND 2-1/4 TO 3 PARTS SAND.
10.	COURSE GROUT SHALL BE COMPOSED OF ONE PART PORTLAND CEMENT, TO WHICH MAY BE ADDED 1/10 PART HYDRATED LIME OR LIME PUTTY AND 2-1/4 TO 3 PARTS SAND, AND NOT MORE THAN 2 PARTS AGGREGATE (GRAVEL). THIS GROUT MAY ONLY BE USED IN GROUT SPACES IN BRICK MASONRY 2" OR MORE IN HORIZONTAL DIMENSION AND IN GROUT SPACES IN FILLED CELL CONSTRUCTION 4" OR MORE IN BOTH HORIZONTAL DIMENSIONS.
11.	MORTAR MIXING: ADD SAND, CEMENT AND MIX, THEN ADD LIME. MIX MORTAR AFTER ALL INGREDIENTS ARE ADDED TO MIXER FOR AT LEAST 5 MIN\UTES OR UNTIL A THOROUGHLY UNIFORM MIX IS OBTAINED, WHICHEVER PERIOD IS LONGER. ADJUST CONSISTENCY OF MORTAR TO THE SATISFACTION OF THE MASON, ADDING AS MUCH WATER AS IS COMPATIBLE WITH THE CONVENIENCE IN USING THE MORTAR. IF THE MORTAR BEGINS TO STIFFEN FROM EVAPORATION OR ABSORPTION OF A PART OF THE MIXING WATER, RE-TEMPER MORTAR BY ADDING WATER WITHIN BASIN FORMED BY MORTAR AND RE-MIXING.
12.	GROUT MIXING: MIX GROUT AFTER ALL INGREDIENTS ARE ADDED TO MIXER FOR A PERIOD OF AT LEAST 5 MINUTES OR UNTIL A THOROUGHLY UNIFORM MIX HAS BEEN OBTAINED, WHICHEVER PERIOD IS LONGER. GROUT SHALL HAVE AS HIGH A WATER CONTENT AS IN CONSISTENT WITH PLACING AND WORKABILITY WITHOUT SEGREGATION.

SECTION 04220 - CONCRETE UNIT MASONRY

1.	CONCRETE UNIT MASONRY SHALL BE STANDARD SHAPE MEDIUM WEIGHT (CONFORMING TO ASTM C90), GRADE 'N-1', LOAD BEARING, HOLLOW, AS MANUFACTURED BY YAVAPAI BLOCK CO. INC., OR APPROVED EQUAL.
2.	NOT ALL MASONRY LINTELS MAY BE SHOWN ON THE STRUCTURAL PLANS. THE MASONRY SUBCONTRACTOR SHALL BE RESPONSIBLE FOR CAREFULLY REVIEWING THE MECHANICAL PLANS FOR DUCT PENETRATIONS AND EXTERIOR WALL LOUVERS IN MASONRY WALLS, AND INCLUDE THE INSTALLATION OF MASONRY LINTELS FOR THESE MASONRY PENETRATIONS IN THEIR BASE BID PER THE APPROPRIATE STRUCTURAL DETAILS.
3.	UNITS SHALL BE CURED AND DRIED BEFORE BEING USED. SURFACE OF UNITS SHALL BE CLEAN AND FREE FROM DIRT WHEN LAID IN WALLS. UNITS COMPLYING WITH THE APPROPRIATE ASTM STANDARDS SHALL NOT BE LAID IN THE WALL WHERE EXPOSED TO VIEW.
4.	CONTRACTOR SHALL TRANSPORT AND HANDLE MASONRY UNITS IN SUCH A MANNER AS TO PREVENT CHIPPING AND BREAKAGE.
5.	ALL MASONRY SHALL BE PER ASTM C90 AND 2012 INTERNATIONAL BUILDING CODE STANDARDS FOR 'HOLLOW AND SOLID LOAD-BEARING CONCRETE MASONRY UNITS'.
6.	WHEN REQUIRED, EXPOSED BLOCK UNITS SHALL BE CUT WITH A POWER DRIVEN CARBORUNDUM OR DIAMOND DISC BLADE SAW. WHEN USING 'WET' CUTTING METHODS, CLEAN WATER SHALL BE USED ON EXPOSED UNITS.
7.	A L.A.Z. (LIMITED ACCESS ZONE) SHALL BE ESTABLISHED WHENEVER A MASONRY WALL IS BEING CONSTRUCTED PER O.S.H.A. REGULATION 706A.
8.	ALL MASONRY WALLS OVER 8 FEET IN HEIGHT SHALL BE ADEQUATELY BRACED PER O.S.H.A. REGULATIONS 706B.
9.	TOLERANCES SHALL CONFORM TO ACI-531, EXCEPT AS OTHERWISE NOTED.
10.	LAY UNITS IN UNIFORM AND TRUE COURSES; LEVEL AND PLUMB TO HEIGHT INDICATED ON PLANS.
11.	UNITS SHALL NOT BE WETTED BEFORE BEING USED AND SHALL BE LAID DRY.
12.	BOND PATTERN SHALL BE REGULAR RUNNING BOND.
13.	BOND SHALL BE PLUMB THROUGHOUT FACE OF WALL.
14.	JOINTS SHALL BE STRAIGHT, CLEAN AND A UNIFORM 3/8" THICKNESS.
15.	ALL EXPOSED VERTICAL AND HORIZONTAL JOINTS AT STANDARD UNITS SHALL BE TOOLED TO PRODUCE A DENSE, SLIGHTLY CONCAVE SURFACE WHICH IS WELL BONDED TO THE BLOCK EDGES.
16.	UNEXPOSED INTERIOR JOINTS SHALL BE STRUCK FLUSH.
17.	SOLIDLY FILL JOINTS FROM THE FACE OF THE UNIT TO THE DEPTH OF THE FACE SHELL, EXCEPT WHERE SPECIFIED OTHERWISE.
18.	FULL BEDDING TO BE PROVIDED FOR THE FIRST COURSE ON THE FOUNDATION AND WHEREVER MAXIMUM STRENGTH IS REQUIRED.
19.	BUTTER VERTICAL HEAD JOINTS WELL AND SHOVE THESE JOINTS TIGHT SO THAT THE MORTAR BONDS WELL TO BOTH UNITS.
20.	FULL COVERAGE TO BE PROVIDED ON BED OF FACE SHELLS AND WEBS SURROUNDING CELLS TO BE FILLED.
21.	BEE HOLES OR OTHER OPEN JOINTS SHALL BE FILLED AND TOOLED WITH MORTAR WHILE MORTAR IS STILL FRESH.
22.	SOILED MASONRY FROM MORTAR AND GROUT SPILLS WHICH WILL BE EXPOSED TO VIEW AT THE COMPLETION OF THE PROJECT SHALL BE CLEANED IMMEDIATELY WITH STIFF FIBER BRUSHES UNTIL THE WALL IS FREE OF DROPPED OR SPATTERED MORTAR.
23.	BUILD IN ALL ITEMS REQUIRED FOR A COMPLETE JOB, INCLUDING REINFORCING STEEL, BOLTS, ANCHORS, NAILING BLOCKS, DOOR AND WINDOW FRAMES, PIPES, CONDUITS AND VENTS. PROVIDE TEMPORARY BRACING FOR ALL MASONRY WALLS AND LEAVE IN PLACE UNTIL MASONRY IS CURED AND THE ROOF DIAPHRAGM IS SECURED IN PLACE.
24.	CONTROL JOINT FILL SHALL BE FACTORY EXTRUDED SOLID SECTION OF RUBBER CONFORMING TO ASTM D-2000, 2AA-805, WITH A DUROMETER HARDNESS OF APPROXIMATELY 80 WHEN TESTED IN CONFORMANCE WITH ASTM D-2240. THE SHEAR SECTION IS TO BE 5/8" THICKNESS.
25.	REINFORCING STEEL IS TO BE IN PLACE AND INSPECTED BEFORE GROUTING STARTS. VERTICAL CELLS TO BE FILLED SHALL HAVE VERTICAL ALIGNMENT TO MAINTAIN A CONTINUOUS CELL AREA. GROUT BEAMS OVER OPENINGS AND BOND BEAMS IN A CONTINUOUS OPERATION. SOLIDLY GROUT IN PLACE ALL BOLTS, ANCHORS, ETC.
26.	UPON COMPLETION OF THE MASONRY WORK, CLEAN ALL EXPOSED MASONRY IN AN APPROVED MANNER.

SECTION 4221 - BRICK

1.	BRICK SHALL MATCH EXISTING BUILDING SIZE, SHAPE, TEXTURE AND MANUFACTURER INDICATED IN MATERIALS SCHEDULE.

DIVISION 5 - METALS

SECTION 05100 - STRUCTURAL METAL FRAMING

1.	FURNISH, FABRICATE AND ERECT THE FOLLOWING ITEMS OF STRUCTURAL METAL, INCLUDING BUT NOT LIMITED TO COLUMNS, BEAMS AND LINTELS.
2.	THE MISCELLANEOUS STEEL SHOP DRAWINGS SHALL BE PREPARED BY AN EXPERIENCED COMPANY THAT IS LOCATED WITHIN THE STATE OF ARIZONA.
3.	FURNISH, FABRICATE AND DELIVER TO THE JOB THE FOLLOWING ITEMS OF STRUCTURAL METAL, INCLUDING BUT NOT LIMITED TO: MASONRY BEARING PLATES, ANCHOR BOLTS AND SHELF ANGLES.
4.	METAL PRIMER SHALL BE TNEMEC 10-1009. APPLY TO WET THICKNESS OF 4.5 MILS.
5.	CONFORM WITH AISC 'SPECIFICATIONS FOR DESIGN FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS', AISC 'CODE OF STANDARD PRACTICE' AND THE APPLICABLE BUILDING CODES.
6.	WELDERS SHALL BE DULY QUALIFIED IN THE POSITION IN WHICH THEY ARE TO WELD AND THE QUALIFICATIONS AND SPECIFICATIONS FOR WORKMANSHIP SHALL COMPLY WITH THE AWS REQUIREMENTS 'AWS SPECIFICATIONS FOR BUILDING'.

SECTION 05500 - MISCELLANEOUS METALS

1.	THE TYPES OF MISCELLANEOUS METAL ITEMS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING: LOOSE BEARING PLATES MISCELLANEOUS FRAMING AND SUPPORTS MISCELLANEOUS STEEL ANGLE EDGES AT FLOOR PITS EXTERIOR CANOPIES STEEL PIPE BOLLARDS STEEL SWING GATES
2.	COMPLY WITH THE FOLLOWING CODES, STANDARDS AND SPECIFICATIONS: 2.1 AISC 'SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS,' INCLUDING 'COMMENTARY OF THE AISC SPECIFICATIONS'. 2.2 AISC 'SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS'. 2.3 AWS 'CODE FOR WELDING IN BUILDING CONSTRUCTION. 2.4 ASTM A-6 'GENERAL REQUIREMENTS FOR DELIVERY OF ROLLED STEEL PLATES, SHAPES, SHEET PIPING AND BARS FOR STRUCTURAL USE'.
3.	USE MATERIALS OF REQUIRED SIZE AND THICKNESS TO PRODUCE ADEQUATE STRENGTH AND DURABILITY OF THE FINISHED PRODUCT FOR THE INTENDED USE.
4.	SHOP PAINT MISCELLANEOUS METAL WORK, EXCEPT THOSE MEMBERS OR PORTIONS OF MEMBERS TO BE EMBEDDED IN CONCRETE OR MASONRY AND SURFACES AND EDGES TO BE FIELD WELDED. APPLY ONE SHOP COAT OF METAL PRIMER PAINT TO FABRICATED METAL ITEMS, EXCEPT APPLY 2 COATS OF PAINT TO SURFACES WHICH ARE INACCESSIBLE AFTER ASSEMBLY OR ERECTION. PRIMER TO BE TNEMEC 10-1009.

DIVISION 6 - WOOD & PLASTIC

SECTION 06100 - ROUGH CARPENTRY

1.	AT ALL GRAB BARS THE CONTRACTOR SHALL PROVIDE AND INSTALL 2x6 SOLID WOOD BLOCKING, WHICH SHALL BE SECURELY SCREWED OFF TO THE STEEL WALL STUDS.

SECTION 06600 - ARCHITECTURAL MILLWORK

1.	ALL MILLWORK SHALL MEET OR EXCEED THE REQUIREMENTS OF SECTION 400/1600 'CUSTOM GRADE' OF QUALITY STANDARDS AS ESTABLISHED BY THE ARCHITECTURAL WOODWORKERS INSTITUTE.
2.	ALL CASEWORK MEMBERS ARE TO BE 3/4" THICK UNLESS NOTED OTHERWISE.
3.	ALL CASEWORK TO HAVE HIGH PRESSURE LAMINATE FINISH WITH REVEAL OVERLAY DESIGN, UNLESS DETAILED OTHERWISE ON PLANS. ALL EXTERIOR EXPOSED SURFACES TO BE NEMA LD-3, GRADE GP-28, UNLESS DETAILED OTHERWISE ON PLANS. BACKING SHEET TO BE NEMA LD-3, GRADE CL-20. ALL CONCEALED INTERIORS SHALL BE WHITE MELAMINE.
4.	ALL COUNTERTOPS SHALL BE SOLID SURFACE MATERIAL, 3/4" THICK. PROVIDE ALL AVAILABLE SAMPLES TO OWNER FOR APPROVAL. LEADING EDGES ARE TO BE SQUARE, 1 1/2" THICK.
5.	DRAWER BOX SIDES ARE TO BE 1/2" WHITE MELAMINE. DRAWER BOX BOTTOMS ARE TO BE 1/4" WHITE MELAMINE.
6.	SHELVES UNDER 36" WIDE SHALL HAVE 3/4" SHELVES. CABINETS OVER 36" WIDE SHALL HAVE 1" SHELVES.
7.	HARDWARE: 7.1 DRAWER AND CABINET PULLS ARE TO BE WIRE CHROME PLATED (MATT) WITH 4" HOLE SPACING. PROVIDE A SINGLE PULL AT EACH DRAWER OR DOOR. 7.2 HINGES ARE TO BE BLUM 'CLIP TOP' 120° SELF CLOSING CONCEALED HINGE WITH DULL CHROME FINISH. PROVIDE 2 HINGES PER DOOR. 7.3 SHELF SUPPORTS SHALL BE 5MM DUAL PIN LOCKING FOR 3/4" TO 1" SHELF. CLEAR COLOR, RATED FOR 500 LBS. 7.4 DRAWER GUIDES AT FILE DRAWERS SHALL BE ACCURIDE NO. AC3832-20, FULL EXTENSION, 100 LB CAPACITY, BOX DRAWER SLIDES. DRAW GUIDES AT ALL OTHER DRAWERS IS TO BE BLUM 230M5000 BOTTOM MOUNTED, SELF-CLOSING, 75 LB. CAPACITY, 3/4 EXTENSION. 7.5 TRASH GROMMETS SHALL BE MODEL NO. TM1PSS AS MANUFACTURED BY DOUG MOCKETT & COMPANY INC. GROMMET IS 6" DIAMETER x 1" POLISHED STAINLESS STEEL. 7.6 PLASTIC COUNTERTOP GROMMETS: TO BE MODEL #91041 AS MANUFACTURED BY ROCKLER, WHITE. EXACT LOCATION OF GROMMETS IS TO BE DETERMINED BY OWNER IN FIELD AFTER COUNTERTOP IS INSTALLED.
8.	FURNISH AND INSTALL ALL ITEMS OF CASEWORK HARDWARE, INCLUDING PULLS, DRAWER GUIDES, PIVOT HINGES, SHELF STANDARDS AND LOCKS.
9.	ARCHITECTURAL WOODWORK SHALL BE DELIVERED TO THE JOBSITE ONLY AFTER ALL PAINTING, WET WORK, GRINDING, AND SIMILAR OPERATIONS ARE COMPLETED.
10.	CONTRACTOR SHALL EMAIL PDF SHOP DRAWINGS OF ALL MILLWORK AND COUNTERTOPS WITH FULL DETAILS, HARDWARE CUT SHEETS, SAMPLES, AND SPECIFICATIONS TO ARCHITECT FOR REVIEW PRIOR TO ORDERING MATERIALS.

DIVISION 7 - THERMAL AND MOISTURE PROTECTION

SECTION 07170 - WATERPROOFING MASONRY SEALER - EXTERIOR & INTERIOR

1.	WATERPROOF ALL EXTERIOR MASONRY WALLS WITH CLEAR PENETRATING, WATER BASED WATER-PROOFING SOLUTION, WHICH WILL NOT CAUSE A STAINING REACTION OR DISCOLORING OF SUBSTRATES. THE SOLUTION SHALL CONTAIN TEN TO FIFTEEN PERCENT (10%-15%) SOLIDS AND SHALL BE AS INDICATED IN MATERIALS SCHEDULE.
2.	SURFACES TO RECEIVE LIQUID WATER REPELLENT SHALL BE CLEANED, FREE FROM DIRT, STAINS, LOOSE MATERIAL AND EFFLORESCENCE AND DRY. ALL SURFACE CRACKS, SLITS AND VOIDS IN CONCRETE BLOCK AND MORTAR JOINTS SHALL BE REPAIRED AND/OR RE-POINTED.
3.	APPLY LIQUID WATER REPELLENT TO BRICK / MASONRY WALLS WITH A LOW PRESSURE, NON-ATOMIZING, OR MISTING SPRAY. HOLD SPRAY CLOSE TO THE WALL AND FLOOD THE ENTIRE SURFACE SO THAT THERE IS A RUNDOWN OF FROM 8 TO 10 INCHES, IN AN OVERLAPPING PATTERN OF APPLICATION. FIRST COAT COVERAGE SHALL BE APPLIED AT A MINIMUM RATE OF 40 SQ. FT./GALLON AND THE SECOND COAT COVERAGE AT A MINIMUM RATE OF 80 SQ. FT./GALLON. APPLY ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

SECTION 07175 - WATERPROOFING AT EXTERIOR BELOW GRADE EXTERIOR WALLS

1.	REFER TO MATERIALS SCHEDULE AND DETAILS ON THE PLANS. INSTALL IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.

SECTION 07180 - VAPOR BARRIER AT CONCRETE SLAB

1.	REFER TO MATERIALS SCHEDULE AND DETAILS ON THE PLANS. INSTALL IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.

SECTION 07185 - WEATHER PROOF BARRIER AT EXTERIOR WALLS

1.	REFER TO MATERIALS SCHEDULE AND DETAILS ON THE PLANS. INSTALL IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.

SECTION 07210 - BUILDING INSULATION

1.	INSULATION MATERIALS SHALL BE FLEXIBLE FIBERGLASS BATTS OR BLANKETS, WITH OR WITHOUT FACINGS, AS CALLED OUT ON PLANS. ALL COMPOSITE MATERIALS SHALL HAVE A FLAME SPREAD RATING OF 25 OR LESS AND A SMOKE DEVELOPED RATING OF 50 OR LESS AS TESTED IN ACCORDANCE WITH ASTM E84 U.L. 723
2.	PROVIDE INSULATION AS FOLLOWS: 2.1 REFER TO WALL TYPES SCHEDULE AND BUILDING SECTIONS / DETAILS.
3.	CUT AND FIT INSULATION MATERIALS AROUND PIPES, CONDUITS, OUTLET BOXES, ETC., AS NECESSARY TO MAINTAIN THE INTEGRITY OF THE INSULATION. WHERE PIPES ARE INSTALLED IN SPACES TO RECEIVE INSULATION, PLACE INSULATION BETWEEN EXTERIOR WALL AND THE PIPE, COMPRESSING INSULATION AS NECESSARY.
4.	AT WALL AND CEILING AREAS INSTALL INSULATION BETWEEN FRAMING MEMBERS WITH FLANGES CONTINUOUSLY TIGHT AGAINST FRAMING MEMBERS AND ENDS TIGHTLY BUTTED.

SECTION 07220 - ROOF INSULATION

1.	CONTRACTOR SHALL INSTALL TWO LAYERS OF 2.6 RIGID CLOSED CELL POLYISOCYANURATE POLYTHERM INSULATION BOARDS (R30). REFER TO MATERIALS SCHEDULE AND DETAILS.
2.	MATERIALS: 2.1 INSULATION ADHESIVE: AS MANUFACTURED BY SOPREMA. INSTALL ADHESIVE IN STRICT CONFORMANCE TO MANUFACTURER'S RECOMMENDATIONS. 2.2 4'x8' CLOSED CELL POLYISOCYANURATE RIGID INSULATION BOARDS. 2.3 CRICKETS: TAPERED RIGID PERLITE INSULATION BOARDS. 2.4 BASE SHEET: SOPREMA ELASTOPHENE SURE STICK AS MANUFACTURED BY SOPREMA. 2.5 CANT STRIPS: 4" HIGH RIGID FIRE RETARDANT CANT STRIP.

Nov 01, 2018 - 11:40am

REVISIONS	BY

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Specifications Continued

3. INSTALLATION:
   - 3.1 THE INSULATION SHALL BE PROPERLY STORED AND PROTECTED AT THE JOB SITE IN ACCORDANCE WITH GOOD CONSTRUCTION PRACTICES. INSULATION SHALL BE STORED ON PALLETS AT LEAST FOUR INCHES ABOVE THE GROUND OR FLOOR AND SHALL BE FULLY TARPED. THE INSULATION MUST BE MAINTAINED AND INSTALLED IN A DRY CONDITION AT ALL TIMES.
   - 3.2 BEFORE INSULATION IS PLACED ON THE ROOF DECK, THE SURFACE MUST BE CLEAN, DRY, FREE OF DEBRIS, AND WATER, AND SUITABLY PREPARED BY REMOVING ALL DEFECTS THAT MIGHT AFFECT THE QUALITY OF THE APPLICATION. ANY UNUSUAL DECK CONDITIONS OR DEFECTS SHALL BE IMMEDIATELY BROUGHT TO THE ARCHITECT'S ATTENTION PRIOR TO INSTALLATION.
   - 3.3 NO MORE INSULATION SHALL BE INSTALLED DAILY THAN CAN BE COVERED COMPLETELY WITH ROOFING MATERIAL.
   - 3.4 INSULATION SHALL BE INSTALLED TIGHTLY BUTTED, IN STRICT ACCORDANCE WITH THE RECOMMENDATIONS OF SOPREMA.
   - 3.5 INSTALL ALL TAPERED CRICKETS OVER INSTALLED ROOF INSULATION USING INSULATION ADHESIVE.
   - 3.6 THE BONDING SURFACE OF THE STEEL ROOF DECK SURFACE SHALL BE CLEANED SO THAT IT IS FREE OF ANY DEBRIS, DIRT, SHOP OIL COATING, GREASE, AND WATER.
   - 3.7 ATTACH INSULATION TO STEEL ROOF DECKING WITH INSULATION ADHESIVE, TO BE INSTALLED PER WRITTEN INSTRUCTIONS OF THE ADHESIVE MANUFACTURER.
   - 3.8 ATTACH INSULATION TO INSULATION WITH INSULATION ADHESIVE, TO BE INSTALLED PER WRITTEN INSTRUCTIONS OF THE ADHESIVE MANUFACTURER.
   - 3.9 ALIGN INSULATION JOINTS CONTINUOUS IN ONE DIRECTION AND STAGGERED 24" IN THE OTHER DIRECTION. ALL JOINTS OF THE 2nd LAYER OF INSULATION ARE TO BE STAGGERED 24" FROM ALL JOINTS OF THE 1st LAYER OF INSULATION.
   - 3.10 THE TWO LAYERS OF ROOF INSULATION ARE TO BE INSTALLED UNDER THE TAPERED CRICKETS.
   - 3.11 AT ALL VERTICAL INTERSECTIONS INSTALL 4"x4" RIGID CANT STRIPS OVER THE INSULATION. INSTALL INTO INSULATION ADHESIVE. MITER ALL CORNERS.

SECTION 07600 - SHEET METAL FLASHINGS & COUNTERFLASHINGS

1. PROVIDE AND INSTALL ALL FLASHINGS AND COUNTERFLASHINGS, AS REQUIRED TO MAKE ALL ROOFING SYSTEMS WATERTIGHT.
2. QUALITY, PROCEDURES AND METHODS SHALL BE AS RECOMMENDED BY SMACNA ARCHITECTURAL SHEET METAL MANUAL, 3rd EDITION.
3. MATERIALS:
   - 3.1 GALVANIZED SHEET METAL ASTM A-525, 24-GAUGE MINIMUM, UNLESS DETAILED OTHERWISE.
   - 3.2 SOLDER: ASTM B-32, 50% TIN AND 50% LEAD, USED WITH ROSIN FLUX.
   - 3.3 PLASTIC CEMENT: FS SS-C-153, TYPE I, AND ASTM D-2822.
   - 3.4 CAULKING: FS TT-S-00227E, 2-PART RUBBER BASE SEALANT.
   - 3.5 REGLETS & COUNTERFLASHING: AS MANUFACTURED BY FRY-REGLET CORPORATION, TYPE SM.
4. PROVIDE FOR THERMAL EXPANSION OF RUNNING TRIM FLASHING AND OTHER ITEMS EXPOSED FOR MORE THAN 15 FEET CONTINUOUS LENGTH. MAINTAIN A WATERTIGHT INSTALLATION AT EXPANSION SEAMS.
5. PROVIDE THE FOLLOWING SHEET METAL ITEMS:
   FRY REGLET COUNTERFLASHINGS
   EDGE DRIP FLASHING

SECTION 07720 - ROOF ACCESSORIES

1. ROOF HATCH, REFER TO MATERIALS SCHEDULE

SECTION 07900 - CAULKING AND SELANTS

1. ALL NEW EXTERIOR AND INTERIOR SEALANT SHALL BE DOW CORNING 795, UNLESS NOTED OTHERWISE.
2. PRIMER: WHERE REQUIRED, SHALL BE USED AS PER DOW CORNING'S WRITTEN INSTRUCTIONS. THE PRIMER SHALL HAVE BEEN TESTED FOR NON-STAINING CHARACTERISTICS AND DURABILITY ON SAMPLES OF ACTUAL SURFACES TO BE SEALED.
3. CONTRACTOR SHALL USE CLOSED CELL POLYETHYLENE BACKER RODS AS A JOINT BACKING TO CONTROL DEPTH OF SEALANT BEAD. WHERE DEPTH OF JOINT WILL PREVENT USE OF JOINT BACKING, AN ADHESIVE BACKED POLYETHYLENE TAPE (BOND BREAKER TAPE) SHALL BE INSTALLED TO PREVENT THREE SIDED ADHESION. JOINT BACKING SHALL BE DRY AT THE TIME OF SEALANT APPLICATION.
4. SURFACES MUST BE SOUND, CLEAN AND DRY. ALL RELEASE AGENTS, EXISTING WATERPROOFING, DUST, LOOSE MORTAR, LAITANCE, PAINTS, OR OTHER FINISHES MUST BE REMOVED. THIS SHALL BE ACCOMPLISHED WITH A THOROUGH WIRE BRUSHING, GRINDING, SANDBLASTING OR SOLVENT WASHING, DEPENDING ON THE CONTAMINATION.
5. PROVIDE CAULKING AT THE FOLLOWING LOCATIONS. THIS SCHEDULE IS NOT TO BE CONSTRUED TO BE COMPLETE. PROVIDE CAULKING AT OTHER AREAS AS INDICATED.
   - 5.1 PERIMETER OF ALL DOOR AND WINDOW FRAMES, INTERIOR AND EXTERIOR. COLOR TO MATCH DOOR FRAME COLOR.
   - 5.2 PERIMETER OF ALL ALUMINUM SECTIONS, INTERIOR AND EXTERIOR. COLOR TO MATCH ALUMINUM FRAME COLOR.
   - 5.3 AT BASE OF WATER CLOSETS AT FLOOR, COLOR TO BE WHITE TO MATCH WATER CLOSET.
   - 5.4 AT ALL WALL HUNG PLUMBING FIXTURES, COLOR TO BE WHITE TO MATCH FIXTURE.
   - 5.5 ALL NEW JOINTS AT ABUTTING DISSIMILAR BUILDING MATERIALS.
   - 5.6 JOINTS IN EXPOSED MASONRY SURFACES, INTERIOR AND EXTERIOR.
   - 5.7 TOP EDGE OF ALL FRY-REGLET COUNTERFLASHING ASSEMBLIES.
   - 5.8 CONTROL, COLD, EXPANSION AND SAW JOINTS IN CONCRETE SURFACES, INTERIOR AND EXTERIOR. INSTALL SEALANT AT ALL INTERIOR CONCRETE FLATWORK JOINTS WHICH DO NOT RECEIVE A FLOOR COVERING.

DIVISION 8 - DOORS, WINDOWS, GLASS

SECTION 08110 - HOLLOW METAL FRAMES

1. FRAMES TO MEET SPECIFIED REQUIREMENTS OF SDI AND/OR NAAMM FOR UNIT WELDED FRAMES.
2. CONTRACTOR SHALL ORDER ALL FRAMES FOR MASONRY WALLS IN A TIMELY MANNER SO THAT FRAME CAN BE INSTALLED WHILE MASONRY WALLS ARE BEING BUILT. FRAMES INSTALLED LATER WITH EXPANSION BOLTS WILL NOT BE ALLOWED.
3. ALL EXTERIOR FRAMES, WHERE OCCUR, SHALL BE 14 GAUGE GALVANIZED STEEL WITH CORNERS MITERED AND WELDED.
4. ALL INTERIOR FRAMES SHALL BE 14 GAUGE SHEET STEEL WITH CORNERS MITERED AND WELDED.
5. ALL HOLLOW METAL FRAMES IN MASONRY WALLS ARE TO BE SOLIDLY GROUTED.
6. PREPARE FRAMES TO RECEIVE MORTISED TYPE HARDWARE AND PROVIDE HARDWARE REINFORCING AS REQUIRED BY SDI.
7. INSTALL METAL FRAMES AT LOCATION INDICATED, SET SQUARE AND PLUMB WITH THE BUILDING LINES, ANCHORING SECURELY TO CONSTRUCTION.
8. ANCHOR EACH JAMB LEG WITH SILL CLIP WITH EXPANSION BOLT OR 'RAMSET' FASTENERS.
9. ANCHOR EACH JAMB WITH 3 ANCHORS AT MASONRY AND 4 ANCHORS AT GYPSUM BOARD.

SECTION 08115 - HOLLOW METAL DOORS

1. DOORS TO MEET SPECIFIED REQUIREMENTS OF SDI AND/OR NAAMM.
2. EXTERIOR STEEL DOORS SHALL BE FLUSH EXTRA HEAVY DUTY, 18 GAUGE GALVANIZED STEEL, 1-3/4" THICK, AND PRIME PAINTED. TOP AND BOTTOM OF EXTERIOR DOORS SHALL BE FLUSH.
3. U-FACTOR OF DOORS SHALL BE DETERMINED IN ACCORDANCE WITH NFRC 100 BY AN ACCREDITED, INDEPENDENT LABORATORY, AND LABELED AND CERTIFIED BY THE MANUFACTURER, PER 2012 IECC, SECTION C303.1.3. PROVIDE MANUFACTURER'S WRITTEN DOCUMENTATION TO ARCHITECT THAT THE DOORS MEET THIS CODE REQUIREMENT. CORE SHALL BE POLYISOCYANURATE INSULATION WITH A U-FACTOR OF 0.08.
4. INTERIOR STEEL DOORS SHALL BE FLUSH HEAVY DUTY, 18 GAUGE COLD ROLLED STEEL, 1-3/4" THICK, AND PRIME PAINTED.
5. PROVIDE SOLID DRIP CAP AT TOP OF ALL EXTERIOR OUT-SWINGING DOORS.
6. PROVIDE FOR GLAZING IN DOORS AS SCHEDULED. NON-REMOVABLE MINIMUM 20 GAUGE GLAZING STOPS SHALL OCCUR ON THE OUTSIDE OF EXTERIOR DOORS AND ON THE REVERSE SIDE OF INTERIOR DOORS. GLAZING BEADS ON THE INSIDE OF GLASS PANELS SHALL BE REMOVABLE.
7. DOORS TO BE THOROUGHLY CLEANED, BONDERIZED AND PRIMED WITH SHOP COAT OF LIGHT GRAY ZINC CHROMATE RUST INHIBITIVE PRIMER, BAKED ON.
8. INSTALL DOORS COMPLETELY AND ACCURATELY, COMPLETE WITH ALL FINISH HARDWARE. INSTALL FINISH HARDWARE IN A NEAT WORKMANLIKE MANNER IN ACCORDANCE WITH THE HARDWARE SCHEDULE USING ONLY MECHANICS SKILLED IN THIS TYPE OF WORK. DO NOT INSTALL HARDWARE UNTIL PAINTING IS COMPLETED. KEEP ALL HARDWARE FREE FROM SCRATCHES, DENTS OR OTHER DEFACEMENTS.

SECTION 08120 - ALUMINUM ENTRANCE DOORS & FRAMES

1. STANDARDS' EXCEPT AS OTHERWISE INDICATED, THE REQUIREMENTS FOR ALUMINUM DOORS AND FRAMES, AND THE TERMINOLOGY USED IN THIS SECTION, ARE THOSE OF NAAMM, AAMA AND AA AND IN PARTICULAR, THOSE OF THE 'ENTRANCE MANUAL' BY NAAMM.
2. MANUFACTURER: THESE SPECIFICATIONS ARE BASED ON THE ALUMINUM WALL SYSTEMS AS MANUFACTURED BY ARCADIA, INC, OR APPROVED EQUAL. MANUFACTURER SHALL PROVIDE FULL SHOP DRAWINGS, DETAILS, AND LOAD TABLES TO ARCHITECT, PRIOR TO ORDERING OF MATERIALS.
3. EXTERIOR WINDOW FRAMING SYSTEM: PROVIDE AND INSTALL AG451 SERIES 2"x 4-1/2" CENTER GLAZED SYSTEM FOR 1" GLASS.
4. INTERIOR WINDOW FRAMING SYSTEM: PROVIDE AND INSTALL SERIES AR450, 2"x4-1/2" CENTER GLAZED SYSTEM FOR 1/4" GLASS.
5. FRAMING MEMBERS, TRANSITION MEMBER, MULLIONS, ADAPTERS, AND MOUNTINGS SHALL BE EXTRUDED OF ALUMINUM ALLOY AND TEMPER CONSISTENT WITH THE METHOD OF MANUFACTURE. THESE MEMBERS SHALL BE OF 6063-T5 EXTRUDED ALUMINUM ALLOY (ASTM B221 - ALLOY G.S. LOA-T5).
6. EXTERIOR AND INTERIOR ALUMINUM DOORS SHALL BE SERIES MS362HD HEAVY DUTY MEDIUM STILE, OFFSET HUNG, COMPLETE WITH ALL HARDWARE AS SPECIFIED BELOW, AS MANUFACTURED BY ARCADIA, INC. BOTTOM RAIL SHALL BE 10" HIGH TO COMPLY WITH ADA REQUIREMENTS. EXTERIOR GLAZING SHALL BE 1" INSULATED TEMPERED GLASS, TO MATCH GLASS USED IN ADJACENT WALL SYSTEM. EXTERIOR DOORS SHALL BE PROVIDED WITH FULL WEATHER-STRIPPING AT JAMBS AND BOTTOM RAIL. DOOR FINISH IS TO MATCH THE ALUMINUM FRAMES. THRESHOLD WIDTH IS TO MATCH THE FRAME WIDTH. THRESHOLD SHALL MEET ADA REQUIREMENTS.
7. HARDWARE SHALL BE FURNISHED AND INSTALLED IN DOORS BY THE DOOR MANUFACTURER, UNLESS NOTED OTHERWISE. ALL HARDWARE FINISHES, UNLESS NOTED OTHERWISE, ARE TO BE FINISHED TO MATCH ALUMINUM CLEAR ANODIZED FINISH. GLAZING SUBCONTRACTOR SHALL COORDINATE WITH THE HARDWARE SUPPLIER AND SHALL PROVIDE KEYED CYLINDERS TO MATCH WHAT IS BEING USED IN THE REMAINDER OF THE DOORS.
8. HARDWARE SHALL MEET ALL REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT, SECTION 4.13.9.
9. COMPLY WITH MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS FOR THE INSTALLATION OF ALUMINUM DOORS AND FRAMES.
10. FABRICATE EXTERIOR DOOR AND FRAME UNITS TO WITHSTAND THE WIND PRESSURE LOADING SHOWN OR, IF NOT SHOWN, 20 LBS. PER SQ. FT. ON THE GROSS AREA OF THE FRAMES, DOORS, PANELS AND GLASS, ACTING INWARD AND ALSO ACTING OUTWARD. MAXIMUM DEFLECTION SHALL BE 1/175 OF THE SPAN AND ALLOWABLE STRESS WITH A SAFEL-TY FACTOR OF 1.65.
11. FABRICATE INTERIOR ALUMINUM FRAME UNITS TO WITHSTAND A LATERAL LOADING OF 5 P.S.F. INSTALLER SHALL BE RESPONSIBLE FOR PROVIDING ALL BRACING, SUPPORTS, FRAMING, ETC. IN ORDER THAT ALL ALUMINUM FRAME UNITS CAN RESIST 5 P.S.F. EVEN IF THESE ITEMS ARE NOT DETAILED ON THE PLANS.
12. WATER INFILTRATION SHALL BE TESTED IN ACCORDANCE WITH ASTM E 331. NO WATER PENETRATION AT A TEST PRESSURE OF 6.24 P.S.F.
13. SET UNITS PLUMB, LEVEL AND TRUE IN LINE, WITHOUT WARP OR RACK OF FRAMES, DOORS OR PANELS. ANCHOR SECURELY IN PLACE. SEPARATE ALUMINUM AND OTHER CORRODIBLE METAL SURFACES FROM SOURCES OF CORROSION OR ELECTROLYTIC ACTION AT POINTS OF CONTACT WITH OTHER MATERIALS.
14. SUBMIT SHOP DRAWINGS FOR FABRICATION AND INSTALLATION OF ENTRANCES AND STOREFRONTS, INCLUDING THE FOLLOWING; ELEVATIONS, DETAIL SECTION OF TYPICAL COMPOSITE MEMBERS, HARDWARE CUT SHEETS AND MOUNTING HEIGHTS ANCHORAGE AND REINFORCEMENTS, GLAZING DETAILS. ALSO INCLUDE DATA COMPLETE DATA SHOWING THAT ALL EXTERIOR FRAMING SYSTEMS WILL RESIST WIND LOADING.
15. WARRANTIES: SUBMIT A WRITTEN WARRANTY, EXECUTED BY THE CONTRACTOR, INSTALLER, AND MANUFACTURER, AGREEING TO REPAIR OR REPLACE UNITS WHICH FAIL IN MATERIALS OR WORKMANSHIP WITHIN ONE YEAR OF SUBSTANTIAL COMPLETION.

SECTION 08200 - WOOD DOORS

1. PROVIDE WOOD DOORS AND RELATED ITEMS IN ACCORDANCE WITH AWI 'QUALITY STANDARDS', SECTION 1300 AND COMMERCIAL STANDARDS CS-236. REFER TO MATERIALS SCHEDULE AND DETAILS.
2. FURNISH MANUFACTURER'S STANDARD 'LIFE OF THE INSTALLATION' GUARANTEE FOR ALL INTERIOR DOORS.
3. SOLID CORE WOOD DOORS: FLUSH CHERRY VENEER, CUSTOM GRADE, FOR AN OPAQUE FINISH. CORE TO BE TYPE PC-7, GRADE 1-L-1 PARTICLE BOARD.
4. STORE DOORS FLAT ON A LEVEL SURFACE IN A CLEAN, DRY, WELL-VENTILATED AREA, PROTECTED FROM SUNLIGHT. DOORS SHALL BE CONDITIONED TO THE AVERAGE PREVAILING HUMIDITY OF THE JOBSITE BEFORE INSTALLATION. HANDLE DOORS WITH CLEAN GLOVES. DO NOT DRAG DOORS ACROSS ONE ANOTHER OR ACROSS OTHER SURFACES.
5. INSTALLATION:
   - 5.1 INSTALL DOORS IN FRAMES WHERE INDICATED. HINGE DOORS WITH CLEARANCE OF NOT MORE THAN 3/32" AT EACH SIDE, AND HEAD; CLEARANCE AT BOTTOM 1/2" OR AS REQUIRED FOR CARPETING OR THRESHOLD. MORTISE, DRILL OR OTHERWISE WORK DOORS FOR FINISH HARDWARE AS SCHEDULED, BEVELING LOCK EDGE TO ALLOW FOR PROPER CLEARANCE IN OPENING AND CLOSING DOORS. REMOVE DOORS AFTER FITTING FOR FINISHING. RE-HANG AFTER FINISHING.
   - 5.2 INSTALL FINISH HARDWARE IN A NEAT AND WORKMANLIKE MANNER IN ACCORDANCE WITH THE HARDWARE SCHEDULE, USING ONLY MECHANICS SKILLED IN THIS TYPE OF WORK. DO ALL MORTISING FOR HARDWARE BEFORE PAINTING. DO NOT INSTALL HARDWARE UNTIL FINISHING OF DOOR IS COMPLETED. KEEP ALL HARDWARE FREE FROM SCRATCHES, DENTS OR OTHER DEFACEMENTS.
   - 5.3 THE FINISH HARDWARE SHALL BE ACCURATELY, FITTED AND INSTALLED ON PROPERLY PREPARED SURFACES IN CONFORMITY WITH THE MANUFACTURER'S INSTRUCTIONS AND TEMPLATES. UPON COMPLETION, THE FINISH HARDWARE SHALL BE IN PERFECT CONDITION AND IN PERFECT WORKING ORDER.

SECTION 08700 - FINISH HARDWARE

1. THE FINISH HARDWARE SUPPLIER SHALL, PRIOR TO DELIVERY, PREPARE AND SUBMIT TO THE ARCHITECT WITHIN 10 DAYS AFTER AWARD OF THE FINISH HARDWARE CONTRACT, 1 COPY OF A COMPLETE HARDWARE SCHEDULE FOR HIS REVIEW. THE SCHEDULE SHALL FOLLOW REQUIREMENTS AND SHALL INDICATE DOOR NUMBER AND LOCATION, QUANTITY, MANUFACTURER'S NUMBER, SIZE AND FINISH, ALSO FURNISH 2 BROCHURES OF HARDWARE CUTS OF ALL ITEMS USED.
2. THE MAXIMUM DOOR-OPENING FORCE (IN POUNDS-FORCE) FOR PUSHING OR PULLING OPEN INTERIOR HINGED DOOR SHALL BE 5 LBF.
3. ALL HARDWARE SHALL MEET HANDICAPPED ACCESSIBILITY REQUIREMENTS OF AMERICANS WITH DISABILITIES ACT.
4. LOCKSETS AND LATCHSETS SHALL BE MOUNTED NO HIGHER THAN 48" ABOVE FINISH FLOOR.
5. EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
6. STRIKES SHALL BE EXTENDED LIPS WHERE REQUIRED TO PROTECT TRIM FROM BEING MARRED BY LATCH BOLT. WROUGHT BOXES SHALL BE FURNISHED WITH ALL STRIKES.
7. KEYS AND KEYING:
   - 7.1 ALL CYLINDERS FOR THIS PROJECT TO BE SET TO NEW MASTER KEY.
   - 7.2 ALL CYLINDERS TO BE CONSTRUCTION MASTER KEYED.
   - 7.3 MASTER KEY SETS AND INDIVIDUAL KEYING OF LOCKS WILL BE DETERMINED BY THE OWNER. CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING WITH THE OWNER'S REPRESENTATIVE TO DETERMINE THE EXACT KEYING THAT WILL BE REQUIRED.
   - 7.4 FURNISH 6 EACH CONSTRUCTION MASTER KEYS TO BE DELIVERED WITH LOCKSETS TO CONTRACTOR. FURNISH 3 EACH MASTER KEY SETS. FURNISH 3 EACH CHANGE KEYS FOR EACH CYLINDER AND LOCKSET.
   - 7.5 ALL GRAND MASTER, MASTER, AND CHANGE KEYS SHALL BE PROPERLY TAGGED FOR EASY IDENTIFICATION AND DELIVERED TO AN AUTHORIZED RECIPIENT AS DIRECTED BY THE ARCHITECT.
8. PROVIDE A WRITTEN GUARANTEE FOR ALL HARDWARE FOR A PERIOD OF 2 YEARS FROM DATE OF CERTIFICATE OF OCCUPANCY. DEFECTS IN MATERIALS AND/OR WORKMANSHIP OCCURRING DURING THE GUARANTEE PERIOD SHALL BE CORRECTED AT NO EXPENSE TO THE OWNER.

SECTION 08800 - GLASS AND GLAZING

1. GLASS AND GLAZING SHALL CONFORM TO CHAPTER 24 OF THE 2012 IBC, AND TO LOCAL CODE REQUIREMENTS. IN CASE OF CONFLICT, THE MORE STRINGENT REQUIREMENTS SHALL APPLY.
2. U-FACTOR OF GLASS SHALL BE DETERMINED IN ACCORDANCE WITH NFRC 100 BY AN ACCREDITED, INDEPENDENT LABORATORY, AND LABELED AND CERTIFIED BY THE MANUFACTURER. MANUFACTURER SHALL PROVIDE THIRD PARTY LABORATORY CERTIFICATION TO ARCHITECT, PRIOR TO MANUFACTURING GLASS UNITS.
3. THE SOLAR HEAT GAIN COEFFICIENT (SHGC) AND VISIBLE TRANSMITTANCE (VT) OF GLASS SHALL BE DETERMINED IN ACCORDANCE WITH NFRC 200 BY AN ACCREDITED, INDEPENDENT LABORATORY, AND LABELED AND CERTIFIED BY THE MANUFACTURER. MANUFACTURER SHALL PROVIDE THIRD PARTY LABORATORY CERTIFICATION TO ARCHITECT, PRIOR TO MANUFACTURING GLASS UNITS.
4. WATERTIGHT AND AIRTIGHT INSTALLATION OF EACH PIECE OF GLASS IS REQUIRED. EACH INSTALLATION MUST WITHSTAND NORMAL TEMPERATURE CHANGES, WIND LOADING AND IMPACT LOADING.
5. THE MAXIMUM PROBABLE BREAKAGE LEVEL SHALL BE 8 LITES PER THOUSAND FOR A 1-MINUTE UNIFORM WIND LOAD DURATION.
6. INTERIOR REGULAR PLATE GLASS: CLEAR 1/4" THICK COMPLYING WITH FS-DD-G-451, TYPE 1, CLASS 1, QUALITY Q-3, PLATE OR FLOAT.
7. INTERIOR TEMPERED GLASS: CLEAR 1/4" THICK FULLY TEMPERED PLATE GLASS. PERMANENTLY ETCH EACH LIGHT WITH MANUFACTURER'S NAME AND HIS COMPLIANCE WITH ANSI Z97.1.
8. EXTERIOR CLEAR LOW-E INSULATING GLASS UNITS: AT ALL (UNLESS NOTED OTHERWISE) WINDOW TYPES AND ALL ALUMINUM/GLASS DOORS PROVIDE PPG INSULATED UNITS, COMPRISED OF AN OUTER LAYER OF 6MM STARPHIRE (TEMPERED WHERE REQUIRED) SOLARBAN 70XL (2) AND AN INNER LAYER OF 6MM (TEMPERED WHERE REQUIRED) CLEAR GLASS, SEPARATED BYA 1/2" AIR SPACE. INSULATING GLASS UNITS SHALL HAVE A SHADING COEFFICIENT OF 0.32 A SHGC OF 0.27 AND A U-VALUE OF 0.26. LABEL EACH UNIT TO SHOW WHICH FACE IS TO BE EXPOSED TO EXTERIOR. PLACE LABEL ON INSIDE FACE. SUBMIT 2 SAMPLES TO ARCHITECT FOR APPROVAL PRIOR TO ORDERING GLASS UNITS.
9. INTERIOR GLAZING COMPOUND TO BE POLYMERIZED BUTYL RUBBER AND INERT FILLERS (PIGMENTS), SOLVENT BASED WITH MINIMUM 75% SOLIDS, NON-SAG CONSISTENCY, TACK-FREE TIME OF 24 HOURS OR LESS, PAINTABLE NON-STAINING.
10. SETTING BLOCKS TO BE NEOPRENE, EPDM, OR OTHER RESILIENT BLOCKS OF 85 SHORE A DUROMETER HARDNESS, MINIMUM LENGTH 4"
11. EXTERIOR GLAZING COMPOUND TO CONFORM TO ASTM C-920, TYPE S, GRADE NS, CLASS 25, USE G.
12. GLAZING INSTALLATION IS TO COMPLY WITH THE GANA 'GLAZING MANUAL', 50th ANNIVERSARY EDITION.

Nov 01, 2018 - 11:40am

REVISIONS	BY

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Specifications Continued

DIVISION 9 - FINISHES

SECTION 09110 - COLD-FORMED LIGHT GAUGE FRAMING

1. THE INSTALLATION AND CONSTRUCTION OF COLD-FORMED STRUCTURAL AND NON-STRUCTURAL STEEL FRAMING SHALL CONFORM TO THE 'STANDARD FOR COLD-FORMED STEEL FRAMING - GENERAL PROVISIONS' AS PUBLISHED BY THE AMERICAN IRON AND STEEL INSTITUTE THROUGH THE STEEL FRAMING ALLIANCE.
2. ALL MEMBERS SHALL BE MANUFACTURED BY THE CURRENT MEMBERS OF THE STEEL STUD MANUFACTURER'S ASSOCIATION.
3. ALL MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN IRON AND STEEL INSTITUTE, AISI, 'SPECIFICATION FOR THE DESIGN OF COLD-FORMED STRUCTURAL MEMBERS'.
4. METAL STUDS SHALL BE ROLL FORMED CHANNEL TYPE STUDS, PER ICC EVALUATION SERVICE REPORT NO. ER-4943P.
5. INTERIOR WALLS SHALL BE CONSTRUCTED OF STEEL STUDS AS FOLLOWS:

MAXIMUM WALL HEIGHT	PRODUCT NO.	STUD SPACING
12'-5"	362S125-18	16" O.C. (U.N.O.)
15'-6"	362S125-33	16" O.C. (U.N.O.)
16'-11"	362S125-43	16" O.C. (U.N.O.)
23'-0"	600S125-30	16" O.C. (U.N.O.)

   YIELD STRENGTH IS TO BE 33 KSI. CONTRACTOR SHALL USE MINIMUM 362S125-33 FOR WALLS THAT RECEIVE CERAMIC TILE. PROVIDE METAL FLOOR AND CEILING RUNNERS DESIGNED TO ACCOMMODATE THE SPECIFIED STUD GAUGES AND SIZES.
6. ALL INTERIOR WALLS SHALL GO FULL HEIGHT AND ATTACH TO THE ROOF STRUCTURE ABOVE, UNLESS THEY HAVE A SUSPENDED CEILING ON BOTH SIDES OF WALL.
7. PROVIDE AND INSTALL A SLIP-TRACK AT TOP OF ALL INTERIOR FULL HEIGHT WALLS. TO BE 20 GAUGE AND TO MATCH THE SIZE OF THE WALL STUDS. TO ALLOW FOR 1" VERTICAL MOVEMENT. PROVIDE WAFER-HEAD SCREWS TO POSITIVELY ATTACH THE STEEL STUDS THROUGH THE VERTICAL SLOTS IN THE SLIP-TRACK. VERTICAL SLOTS TO BE 1/4" WIDE x 1-1/2" LONG AND SPACED EVERY 1" O.C.
8. ATTACH BOTTOM STEEL TRACKS TO CONCRETE FLOORS WITH RAMSET/RED HEAD POWDER-ACTUATED POWER POINT FASTENERS @ 32" O.C. FASTENERS TO HAVE A SHANK DIAMETER OF 0.150", HEAD DIAMETER OF .0300" AND LENGTH OF 0.75". INSTALL FASTENERS PER I.C.B.O. EVALUATION REPORT NO. ER-1639 AND MANUFACTURER'S WRITTEN INSTRUCTIONS.

SECTION 09250 - GYPSUM WALL BOARD

1. ASTM C-840 AND C-754, AND GA-216, INSOFAR AS ANY PORTIONS ARE APPLICABLE, ARE HEREBY MADE A PART OF THIS SPECIFICATION AS THOUGH REPEATED HEREIN. IN CASE OF CONFLICTS, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN.
2. GYPSUM WALLBOARD:
   - 2.1 REGULAR WALLBOARD: TO COMPLY WITH ASTM C-36; OR FS SS-L-30D, TYPE III, 5/8" THICKNESS, TAPERED EDGE.
   - 2.2 MOISTURE-RESISTANT WALLBORAD: TO COMPLY WITH ASTM C-630, GRADE REGULAR, 5/8" THICKNESS, TAPERED EDGE. USE WR BOARD FULL HEIGHT, ON ALL WALLS IN ALL RESTROOMS AND JANITOR'S CLOSET.
3. WALLBOARD ACCESSORIES:
   - 3.1 CORNER BEAD REINFORCEMENT: USG DUR-A-BEAD, SIZE AS REQUIRED.
   - 3.2 METAL EDGE REINFORCEMENT: USG NO. 200-B.
   - 3.3 CONTROL JOINTS: USG #093.
4. FASTENERS: SELF DRILLING, SELF TAPPING, BUGLE HEAD SCREWS, FOR USE WITH POWER DRIVEN TOOL TYPE S FOR APPLICATION TO LIGHT GAUGE METAL FRAMING, MINIMUM 1", TYPE 9-12 FOR APPLICATION TO HEAVY GAUGE METAL FRAMING (ASTM C-646.
5. INSTALLATION - SUSPENDED CEILINGS:
   - 5.1 EXCEPT WHERE OTHERWISE INDICATED, PROVIDE 1-1/2" MAIN RUNNER CHANNELS SPACED ON 4 FOOT CENTERS AND METAL FURRING CHANNELS SPACED ON NOT OVER 16" CENTERS. MAIN RUNNER CHANNELS TO HAVE HANGER WIRES SPACED 48" O.C. ALONG ITS LENGTH AND WITHIN 6" OF ENDS. WIRE HANGERS SHALL BE OF SUCH LENGTH SO THAT THE LOWER ENDS MAY BE SADDLE TIED OR WRAPPED AROUND THE MAIN RUNNERS SO AS TO PREVENT TURNING OR TWISTING OF THE RUNNERS.
   - 5.2 SECURELY CLIP METAL FURRING CHANNELS TO MAIN RUNNERS USING FURRING CHANNEL CLIPS OR SADDLE TIE WITH 2 STRANDS OF 16 GAUGE TIE WIRE. INSTALL FURRING CHANNEL CLIPS ON ALTERNATIVE SIDES OF THE MAIN RUNNER CHANNEL.
   - 5.3 AT LIGHTS OR OTHER OPENINGS THAT INTERRUPT THE MAIN RUNNER OR FURRING CHANNELS REINFORCE GRILLAGE WITH 3/4" COLD-ROLLED CHANNELS, WIRE TIED ATOP AND PARALLEL TO THE MAIN RUNNER CHANNELS.
   - 5.4 APPLY WALLBOARD WITH LONG DIMENSION AT RIGHT ANGLES TO THE FURRING CHANNELS, WITH ALL ABUTTING ENDS AND EDGES OCCURRING OVER THE WEB SURFACE OF THE FURRING CHANNEL. INSTALL WALLBOARD WITH 5/8" SCREWS SPACED 8" O.C. IN THE FIELD OF THE BOARD, AT ALL BEARINGS, AND ALONG ABUTTING EDGES. INSTALL CONTROL JOINTS AT A MAXIMUM OF 20'-0" O.C., IN EACH DIRECTION.
6. INSTALLATION - INTERIOR WALLS:
   - 6.1 APPLY WALLBOARD WITH LONG DIMENSION AT RIGHT ANGLES TO FRAMING OR FURRING MEMBERS WITH ALL ABUTTING ENDS AND EDGES OCCURRING OVER STUD FLANGES. CUT WALLBOARD NEATLY TO FIT AROUND ALL OPENINGS. WALLBOARD TO EXTEND TO WITHIN 1/4" OF THE FLOOR.
   - 6.2 WHEREVER WALLBOARD TERMINATES AGAINST DISSIMILAR MATERIALS OR WHERE EDGES OF WALLBOARD ARE EXPOSED, INSTALL METAL EDGE REINFORCEMENT AS SPECIFIED. AT ALL OUTSIDE CORNERS INSTALL METAL CORNER BEAD REINFORCEMENT AS SPECIFIED.
   - 6.3 INSTALL CONTROL JOINT OVER FACE OF WALLBOARD PANELS. CUT END JOINTS SQUARE, BUTT TOGETHER AND ALIGN TO PROVIDE NEAT FIT. ATTACH CONTROL JOINT TO WALLBOARD PER USG RECOMMENDATIONS. LOCATE CONTROL JOINTS AT MAXIMUM 50'-0" O.C. AND IN ACCORDANCE WITH USG GYPSUM CONSTRUCTION HANDBOOK, LATEST EDITION.
   - 6.4 AT METAL STUDS APPLY WALLBOARD USING SCREWS SPACED A MAXIMUM OF 12" O.C. IN THE FIELD OF THE BOARD AND 12" O.C. ALONG THE ABUTTING END JOINTS.
   - 6.5 WHERE W/R WALLBOARD IS USED, COAT ALL CUT EDGES AND FASTENER HEADS WITH USG SHEETROCK W/R SEALANT. TREAT ALL CUT EDGES, UTILITY HOLES, AND JOINTS, INCLUDING THOSE AT ANGLE INTERSECTIONS PRIOR TO INSTALLATION.
   - 6.6 PROVIDE PERIMETER RELIEF WHERE NON-LOAD-BEARING WALLBOARD PARTITIONS ABUT STRUCTURAL DECKS OR CEILINGS OR VERTICAL STRUCTURAL ELEMENTS. ALLOW NOT LESS THAN 1/4", NOR MORE THAN 1/2" GAP BETWEEN WALLBOARD AND STRUCTURE. FINISH EDGES OF WALLBOARD FACE LAYER WITH SQUARE-NOSE METAL CASING BEAD AND CAULK SPACE BETWEEN CASING BEAD AND STRUCTURE WITH CONTINUOUS SEALANT BEAD. ATTACH WALLBOARD TO STUDS NOT LESS THAN 1/2" BELOW BOTTOM EDGE OF CEILING TRACK FLANGES AND TO FIRST STUD ADJACENT TO VERTICAL TRACKS. DO NOT ATTACH WALLBOARD DIRECTLY TO TRACKS.
   - 6.7 WHERE WALLBOARD PARTITIONS INTERSECT MASONRY WALLS, PROVIDE CONTROL JOINT NO LESS THAN 1/4", NOR MORE THAN 3/8" WIDE BETWEEN WALLBOARD AND MASONRY. FINISH EXPOSED EDGES OF WALLBOARD WITH SQUARE-NOSE METAL CASING BEAD AND CAULK SPACE BETWEEN CASING BEAD AND MASONRY WITH CONTINUOUS SEALANT BEAD.
   - 6.8 INSTALL DRYWALL FULL HEIGHT AT ALL WALLS THAT GO FULL HEIGHT TO ROOF STRUCTURE.
7. FINISHING:
   - 7.1 ALL GYPSUM BOARD IS TO BE FINISHED PER GYPSUM ASSOCIATION PUBLICATION GA 216-96., 'RECOMMENDED LEVELS OF GYPSUM BOARD FINISH'.
   - 7.2 GYPSUM BOARD FINISH IS TO BE LEVEL 4, LIGHT TEXTURE.
   - 7.3 APPLY WALL TEXTURE TO ALL EXPOSED WALLS, UPON COMPLETION OF FINISHING SPECIFIED ABOVE, SURFACES SHALL BE FREE OF DUST, DIRT AND OIL BEFORE APPLICATION. CONTRACTOR SHALL VERIFY WITH OWNER WHICH WALLS ARE TO RECEIVE WALL COVERING, IF ANY.
   - 7.4 FINISH SHALL BE A LIGHT ORANGE PEEL TEXTURE. FURNISH A 3'x3' FINISH SAMPLE FOR OWNER'S APPROVAL BEFORE MATERIALS ARE ORDERED.
   - 7.5 DRYWALL SHALL HAVE DRYWALL PRIMER 'SMOOTH COAT' AS MANUFACTURED BY WESTPAC TO ASSURE FLATNESS.

SECTION 09310 - CERAMIC TILE

1. CERAMIC TILE MATERIALS, PREPARATION AND INSTALLATION SHALL CONFORM TO ANSI STANDARDS AND THE PUBLISHED SPECIFICATIONS OF CUSTOM BUILDING PRODUCTS (CBP).
2. ALL INSTALLATION MATERIALS (MORTAR, GROUT, MEMBRANES, LEVELING AGENTS, SEALERS, ETC.) USED IN THE PROJECT ARE TO BE MANUFACTURED BY CBP, OR APPROVED EQUAL.
3. IT IS SOLELY THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR TO INSURE THAT THE SUB-FLOOR IS PROPERLY PREPARED PRIOR TO INSTALLATION. SHOULD THE INSTALLING CONTRACTOR FIND THAT THE SUB-FLOOOR IS NOT ACCEPTABLE THEN THEY SHALL IMMEDIATELY NOTIFY THE GENERAL CONTRACTOR AND THE ARCHITECT, IN WRITING.
4. CRACK PREVENTION MEMBRANE: MEMBRANE IS TO BE LIQUID APPLIED REDGARD CRACK PREVENTION AND WATERPROOFING MEMBRANE. CONCRETE MUST BE CURED FOR 28 DAYS. CONCRETE FLOORS SHALL BE MECHANICALLY ABRADED TO ENSURE A GOOD BOND. THE COST OF THIS SHALL BE INCLUDED IN THE CONTRACTOR'S BID. ALL CRACKS EXCEEDING 1/8" SHALL BE TREATED IN ACCORDANCE WITH TCNA F125F. INSTALL MEMBRANE ON ALL FLOOR SLABS THAT RECEIVE FLOOR TILE AT A WET THICKNESS OF 30 MILS. DO NOT USE TO BRIDGE OR COVER OVER EXPANSION, CONTROL, CONSTRUCTION, COLD OR SAW CUTS JOINTS. IN THOSE LOCATIONS INSTALL CRACK BUSTER PRO MEMBRANE. CONTRACTOR SHALL INSTALL MEMBRANE PER MANUFACTURER'S WRITTEN INSTRUCTIONS. IF TILE WILL NOT BE SET IMMEDIATELY AFTER MEMBRANE CURING, PROTECT THE APPLICATION FROM RAIN, DIRECT SUNLIGHT AND INCLEMENT WEATHER FOR 72 HOURS AFTER APPLICATION. IF DELAYS LONGER THAN 72 HOURS ARE EXPECTED, COVER THE AREA WITH FELT PAPER. GREAT CARE SHOULD BE TAKEN TO PREVENT THE APPLICATION FROM BECOMING SOILED OR PUNCTURED DURING AND AFTER APPLICATION.
5. MORTAR: MORTAR IS TO BE MEGALITE CRACK PREVENTION MORTAR. SURFACES MUST BE CLEAN, DRY, AND FREE OF DIRT AND OTHER CONTAMINANTS THAT WOULD PREVENT A GOOD BOND. MIX 5.5 QUARTS OF CLEAN WATER PER 30 LB. BAG OF GROUT, PER MANUFACTURER'S WRITTEN INSTRUCTIONS. APPLY MORTAR PER ANSI A108.5 AND THE MANUFACTURER'S WRITTEN INSTRUCTIONS. ALLOW MORTAR TO CURE PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
6. GROUT: GROUT IS TO BE POLYBLEND SANDED GROUT. MIX 2 QUARTS OF CLEAN WATER PER 25 LB BAG OF GROUT, PER MANUFACTURER'S WRITTEN INSTRUCTIONS. APPLY GROUT PER ANSI A108.10 AND THE MANUFACTURER'S WRITTEN INSTRUCTIONS. ALLOW GROUT TO CURE PER MANUFACTURER'S WRITTEN INSTRUCTIONS. GROUT JOINTS ARE TO BE 1/8" WIDE. SEE FINISH SCHEDULE FOR GROUT COLORS.
7. GROUT SEALER: GROUT SEALER IS TO BE TILELAB SURFACEGUARD SEALER. ALLOW GROUT TO CURE FOR 48 TO 72 HOURS BEFORE APPLICATION. PROTECT PAINTED SURFACES. TEST PRODUCT IN AN OBSCURE AREA TO ENSURE DESIRABLE RESULTS. APPLY SEALER TO ALL GROUT JOINTS PER MANUFACTURER'S WRITTEN INSTRUCTIONS. DRYING TIME IS 2 TO 3 HOURS.
8. SELF-LEVELING UNDERLAYMENT: FLOOR LEVELING UNDERLAYMENT, IF REQUIRED, SHALL BE LEVELLITE SELF-LEVELING UNDERLAYMENT. MIX AND INSTALL UNDERLAYMENT PER THE MANUFACTURER'S WRITTEN INSTRUCTIONS. CONCRETE SURFACE SHALL FIRST BE PRIMED WITH LEVELQUIK LATEX PRIMER, INSTALLED PER MANUFACTURER'S WRITTEN INSTRUCTIONS. ALLOW LEVELLITE TO DRY FOR 14 HOURS BEFORE INSTALLING FLOOR TILE OVER IT.
9. FLOOR TILES: REFER TO MATERIALS SCHEDULE.
10. WALL TILES: REFER TO MATERIALS SCHEDULE.
11. GROUT SEALER: AFTER LETTING GROUT CURE FOR 72 HOURS, INSTALL TILELAB GROUT SEALER PER MANUFACTURER'S WRITTEN INSTRUCTIONS. SURFACES SHALL BE CLEAN, DRY AND FREE OF WAXES, COATINGS OR FINISHES.
12. CONTRACTOR SHALL PROVIDE OWNER WITH A MINIMUM OF TWO UNOPENED PACKAGES OF EACH TYPE AND SIZE OF TILE THAT IS USED ON THE PROJECT.
13. INSTALL ALL FLOOR TILES IN ACCORDANCE WITH CBP SYSTEM CF-125A.
14. INSTALL ALL WALL TILES IN ACCORDANCE WITH CBP SYSTEM CW243.
15. ALL SURFACES THAT ARE TILED SHALL BE TRUE TO PLANE AND HAVE A MAXIMUM VARIATION OF 1/8" IN 8' FOR WALLS. REPORT ALL UNACCEPTABLE SURFACES TO THE CONTRACTOR AND THE ARCHITECT AND DO NOT TILE SUCH SURFACES UNTIL THEY ARE LEVELED ENOUGH TO MEET ABOVE REQUIREMENTS.
16. PROVIDE MOVEMENT JOINTS (EXPANSION, ISOLATION, CONSTRUCTION, CONTRACTION, ETC.) IN ALL TILE SURFACES IN ACCORDANCE WITH TCNA METHOD EJ-171. PROVIDE MOVEMENT JOINTS WHERE TILE WORK ABUTS RESTRAINING SURFACES SUCH AS PERIMETER WALLS.
17. CLEAN TILE AFTER GROUTING, PER MANUFACTURER'S INSTRUCTIONS, AND PROTECT FROM OTHER TRADES. CURE ALL CERAMIC TILE FLOORS FOR A MINIMUM OF 72 HOURS.
18. ALL SURFACES THAT ARE TILED SHALL BE TRUE TO PLANE AND HAVE A MAXIMUM VARIATION OF 1/8' IN 8' FOR WALLS. FOR ALLOWABLE CONCRETE FLOOR LEVEL TOLERANCES SEE SPECIFICATIONS SECTION 03300. REPORT ALL UNACCEPTABLE SURFACES TO THE ARCHITECT AND DO NOT TILE SUCH SURFACES UNTIL THEY ARE LEVELED ENOUGH TO MEET ABOVE REQUIREMENTS.
19. CLEAN TILE AFTER GROUTING, PER MANUFACTURER'S INSTRUCTIONS, AND PROTECT FROM OTHER TRADES.

SECTION 09500 - ACOUSTICAL TREATMENT - LAY IN

1. USE TILE UNITS AS INDICATED IN MATERIALS SCHEDULE.
2. SUSPENSION SYSTEMS IS TO BE ARMSTRONG PRELUDE XL, 15/16", GRID SYSTEM, FLAT WHITE. WHERE SUSPENSION SYSTEM METES WALLS USE SHADOW MOLDING, FLAT WHITE. SYSTEM SHALL CONFORM TO THE INTERMEDIATE DUTY CLASSIFICATION OF ASTM C-635.
3. CONTRACTOR SHALL LEAVE OWNER WITH THREE UNOPENED CARTONS OF CEILING TILES.
4. INSTALL THE CEILING SUSPENSION SYSTEM PER THE RECOMMENDATIONS OF ASTM C-636. THE 2012 IBC AND ICC REPORT NO. ESR-1308. LOADING OF ANY COMPONENT MAY NOT CAUSE DEFLECTION OF MORE THAN 1/360 OF THE SPAN. INSTALL 2 PROPER TYPE HOLD DOWN CLIPS PER LOCKING CROSS TEE.
5. ALL LIGHTING FIXTURES WEIGHING LESS THAN 56 POUNDS SHALL HAVE TWO NO. 12 GAGE HANGERS CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE. THESE WIRES MAY BE SLACK.

SECTION 09662 - RESILIENT RUBBER BASE

1. MOLDED RUBBER COVE BASE (TOP SET OR CARPET) SHALL BE 4" HIGH X 1/8" THICK. PROVIDE 6" HIGH RUBBER BASE IN KITCHEN.
2. CONTRACTOR SHALL PROVIDE ALL AVAILABLE ROPPE CORPORATION COLOR SAMPLES TO OWNER FOR APPROVAL.
3. AFTER PREPARATION OF WALL SURFACES, APPLY ADHESIVE TO BACK OF BASE LEAVING TOP 1/4" FREE OF ADHESIVE. PRESS BASE FIRMLY AGAINST THE WALLS SLIDING HORIZONTALLY INTO PLACE, MAKING SURE TOE IS TIGHT TO THE FLOOR AND AGAINST THE WALL. ROLL THE ENTIRE SURFACE OF THE BASE WITH A HAND ROLLER, AND PRESS THE TOP OF THE BASE AGAINST THE WALL WITH A STRAIGHT EDGE. REMOVE EXCESS ADHESIVE IMMEDIATELY. INSTALL PRE-FORMED CORNERS AT ALL OUTSIDE CORNERS. COPE AT INTERNAL CORNERS. WHERE BASE TERMINATES AT PROJECTIONS, INSTALL END CAPS.

SECTION 09663 - ALUMINUM FLOOR TRANSITION STRIPS

1. ALUMINUM FLOOR TRANSITION STRIPS ARE TO BE MANUFACTURED BY SCHLUTER.
2. TO BE AS FOLLOWS:
   CERAMIC TILE TO CONCRETE — RENO-RAMP/-K WITH AE FINISH
   CERAMIC TILE TO VCT OR VINYL — RENO-U
3. INSTALL TRANSITION STRIPS PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

SECTION 09900 - PAINTING

1. PROVIDE ALL PAINTING AND FINISHING REQUIRED FOR ALL INTERIOR AND EXTERIOR UNFINISHED SURFACES. ALSO PAINT ALL BACKFLOW PREVENTION DEVICES AND SERVICE ENTRANCE SECTIONS, TO MATCH MAIN BUILDING COLOR.
2. CONTRACTOR SHALL PROVIDE OWNER WITH ONE UNOPENED 5 GALLON BUCKET OF EACH TYPE AND COLOR OF PAINT USED IN THE PROJECT. BUCKETS ARE TO BE CLEARLY MARKED AS TO PAINT TYPE AND COLOR.
3. PREPARE A COMPLETE SCHEDULE SHOWING THE MATERIALS PROPOSED TO BE USED FOR EACH SURFACE AND SUBMIT SAME FOR REVIEW/APPROVAL BY ARCHITECT BEFORE PAINTING BEGINS.
4. DELIVER ALL PAINT TO SITE IN MANUFACTURER'S LABELED AND SEALED CONTAINERS LABELS SHALL GIVE MANUFACTURER'S NAME, BRAND, TYPE, BATCH NUMBER, COLOR OF PAINT AND INSTRUCTIONS FOR REDUCING. THIN ONLY IN ACCORDANCE WITH PRINTED DIRECTIONS OF MANUFACTURER.
5. BEFORE PAINTING, REMOVE HARDWARE, ACCESSORIES, PLATES, LIGHTING FIXTURES AND SIMILAR ITEMS OR PROVIDE AMPLE PROTECTION OF SUCH ITEMS. ON COMPLETION OF EACH SPACE, REPLACE ABOVE ITEMS. PROTECT ADJACENT SURFACES AS REQUIRED OR DIRECTED.
6. PREPARATION, APPLICATION, WORKMANSHIP, COMPLETION, AND ACCEPTANCE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE PROVISIONS OF 'PAINTING SPECIFICATION MANUAL' BY P.D.C.A. FOR TYPE 1 STANDARD JOB. PERFORM ALL WORK USING ONLY EXPERIENCED, COMPETENT PAINTERS. HAND BRUSH OR ROLL WORK EXCEPT WHERE OTHERWISE PERMITTED OR DIRECTED. WHEN COMPLETED, THE PAINTING SHALL REPRESENT A FIRST-CLASS WORKMANLIKE APPEARANCE. APPLY ALL PAINT MATERIALS UNDER ADEQUATE ILLUMINATION.
7. ALL COATINGS MUST COMPLY WITH APPLICABLE LOCAL AND FEDERAL REGULATIONS GOVERNING VOLATILE ORGANIC COMPOUNDS. IF THESE SPECIFICATIONS DO NOT MEET THESE STANDARDS THEN CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY.
8. PAINT ONLY WHEN SURFACES ARE CLEAN, DRY, SMOOTH AND ADEQUATELY PROTECTED FROM DAMPNESS. EACH COAT OF PAINT SHALL BE WELL BRUSHED ON, WORKED OUT EVENLY AND ALLOWED TO DRY AT LEAST 24 HOURS BEFORE THE SUBSEQUENT COAT IS APPLIED. FINISHED WORK SHALL BE UNIFORM, OF APPROVED COLOR, SMOOTH AND FREE FROM RUNS, SAGS, CLOGGING OR EXCESSIVE FLOODING. MAKE EDGES OF PAINT ADJOINING OTHER MATERIALS OR COLORS SHARP AND CLEAN, WITHOUT OVERLAPPING. WHERE HIGH GLOSS ENAMEL IS USED, LIGHTLY SAND UNDERCOATS TO OBTAIN A SMOOTH FINISH COAT.
9. ALL EXPOSED WATER, GAS, AIR, SPRINKLER, WASTE PIPING, EXPOSED CONDUIT, LIGHTING PANELS, AND TELEPHONE TERMINAL BOXES. EXPOSED DUCTWORK DOES NOT NEED TO BE PAINTED.
10. FOR EXTERIOR COLORS REFER TO MATERIALS SCHEDULE.
11. AL EXTERIOR MASONRY BUILDING AND SITE WALLS ARE TO BE SEALED PER SECTION 07170.

PAINTING SCHEDULES:

THE FOLLOWING SCHEDULES ARE BASED ON SHERWIN WILLIAMS

EXTERIOR:
PAINT SYSTEM 1 - GALVANIZED METAL (SEMI-GLOSS):
- PRETREATMENT - SUPREME CHEMICAL, METAL CLEAN AND ETCH (ME 01)
- 1 COAT GALV-ALUM PREMIUM (GAPR00)
- 2 COATS OF EVERSHIELD (EVSH50)

INTERIOR DRYWALL:
1. PRIMER TO BE ONE COAT OF PVA DRYWALL PRIMER AND SEALER, WHITE
2. FINISH TO BE TWO COATS OF PROMAR 200 ZERO VOC INTERIOR LATEX, EGGSHELL

HOLLOW METAL DOOR AND FRAMES:
1. PRIMER TO BE ONE COAT OF B66W00310-PRO INDUSTRIAL PRO-CRYL UNIVERSAL ACRYLIC PRIMER, OFF WHITE
2. FINISH TO BE TWO COATS OF A76W00051 SOLO INT/EXT 100% ACRYLIC SEMI-GLOSS

Nov 01, 2018 - 11:41am

REVISIONS	BY

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Prescott, AZ, 86301

APN: 109-02-035

DRAWN BY: L.O.
CHECKED BY: W.A.K.
DATE: Oct 30th, 2018
JOB NO.: 710
SHEET: A16.4

Specifications Continued

SECTION 09986 - FIBERGLASS REINFORCED PLASTIC PANELS

1.	CONTRACTOR SHALL SUPPLY AND INSTALL EMBOSSED FRP PANELS AT MOP SINK IN JANITOR CLOSETS. PANELS ARE TO BE INSTALLED ON BOTH WALLS THAT MOP SINK ABUT. PANELS ARE TO EXTEND A MINIMUM OF 24" HORIZONTALLY BEYOND BOTH EDGES OF THE MOP SINK AND EXTEND TO 4'-0" ABOVE FINISH FLOOR. PANELS SHALL BE KEMLITE GLASBORD-PIF, COLOR IS TO BE 85 WHITE. PANELS SHALL BE PER ICBO REPORT NO ER-4583. PANELS SHALL MEET USDA/FSIS REQUIREMENTS.
2.	PANELS SHALL HAVE A MINIMUM CLASS C FINISH WITH A FLAME SPREAD LESS THAN 200 AND A SMOKE DEVELOPED RATING OF 450 OR LESS WHEN TESTED PER ASTM E-84 OR UL 723.
3.	SUBMIT 2 SAMPLES OF EACH TYPE OF PANEL AND TRIM PIECE. SUBMIT SELECTION AND VERIFICATION SAMPLES OF PANELS FOR FINISH, COLOR AND TEXTURE.
4.	PANEL THICKNESS TO BE 0.09" IN SHEETS OF 4'x9'.
5.	INSTALL PANELS IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND PER ICBO REPORT #ER-4583. USE PRE-MANUFACTURED ON-PIECE PVC TRIM PIECES AT ALL JOINTS, CORNERS, EDGES, ETC. OF FRP PANELS.
6.	PROVIDE TITEBOND FRP ADHESIVE, AS RECOMMENDED BY PANEL MANUFACTURER, TO ATTACH TO WALL.
7.	LEAVE SURFACES CLEAN, NO SOILED OR DISCOLORED MATERIAL, WITH NO DEFECTS.
8.	REMOVE AND REPLACE IMPROPERLY INSTALLED, DEFECTIVE, OR DAMAGED MATERIALS.

DIVISION 10 - SPECIALTIES

SECTION 10400 - IDENTIFYING DEVICES

1.	PROVIDE SIGNS AT ALL HANDICAPPED ACCESSIBLE TOILET ROOMS. SIGNAGE SHALL MEET A.D.A. REQUIREMENTS. SIGN SHALL BE MOUNTED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR AT A HEIGHT OF 60" ABOVE FLOOR TO THE CENTERLINE OF SIGN.
2.	EXTERIOR EXITS SHALL HAVE TACTILE EXIT SIGNS AS INDICATED ON THE PLANS.

SECTION 10522 - FIRE EXTINGUISHERS & CABINETS

1.	PROVIDE FIRE EXTINGUISHERS AT LOCATIONS AS REQUIRED BY 2012 IBC. IFC, AND NFPA 10, AND APPROVED BY THE PRESCOTT FIRE DEPARTMENT
2.	THE MAXIMUM TRAVEL DISTANCE TO A FIRE EXTINGUISHER SHALL NOT EXCEED 75 FEET.
3.	FIRE EXTINGUISHERS ARE TO BE BY LARSEN'S MANUFACTURING COMPANY, MP5 SERIES (2A-10B:C) WITH #818 WALL BRACKETS. WALL BRACKET MOUNTING IS TO ONLY TO BE USED IN ALL AREAS THAT ARE NOT ACCESSIBLE AND/OR VISIBLE TO THE GENERAL PUBLIC.
4.	AT ALL AREAS THAT ARE ACCESSIBLE AND/OR VISIBLE TO THE GENERAL PUBLIC THE CONTRACTOR SHALL PROVIDE RECESSED FIRE EXTINGUISHER CABINETS, PROVIDED BY LARSEN'S MANUFACTURING COMPANY. CABINETS ARE TO BE ARCHITECTURAL SERIES, MODEL #2409-R1 WITH FULL GLASS DOOR. WALL PROJECTION SHALL NOT EXCEED 2-1/2".
5.	FIRE EXTINGUISHERS AND CABINETS ARE TO BE MOUNTED SO THAT THEIR TOP IS NOT MORE THAN 5 FEET ABOVE THE FLOOR.

SECTION 10800 - TOILET ACCESSORIES

1.	PROVIDE TOILET ACCESSORIES OF THE SAME MANUFACTURER FOR EACH TYPE OF ACCESSORY UNIT AND FOR UNITS EXPOSED IN THE SAME AREAS, WHEREVER POSSIBLE. STAMPED NAMES OR LABELS ON EXPOSED FACES OF UNITS WILL NOT BE PERMITTED. REFER TO TOILET ACCESSORY SCHEDULE FOR MANUFACTURER AND MODEL NUMBERS.
2.	THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE STEEL STUD SUBCONTRACTOR TO MAKE SURE THAT THEY KNOW THE EXACT LOCATIONS AND SIZES OF ALL RECESSED TOILET ACCESSORIES. GENERAL CONTRACTOR SHALL PROVIDE THE STEEL STUD SUBCONTRACTOR WITH FACTORY CUT SHEETS OF ALL RECESSED ACCESSORIES THAT CLEARLY SHOWS THE ROUGH OPENING REQUIREMENTS FOR THE EQUIPMENT.
3.	THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING SURE THAT THERE IS SOLID WOOD BACKING INSTALLED IN WALLS THAT RECEIVE GRAB BARS, AND OTHER ACCESSORIES, AND THAT THE BACKING IS SUFFICIENT TO PROPERLY SUPPORT THE GRAB BARS.
4.	INSTALLER SHALL PROVIDE ANCHORS, BOLTS AND OTHER NECESSARY FASTENERS, AND ATTACH ACCESSORIES SECURELY TO WALLS AND PARTITIONS. USE CONCEALED FASTENING WHEREVER POSSIBLE.

DIVISION 12 - FURNISHINGS

SECTION 12480 - ALUMINUM ENTRANCE FLOOR MATS AND FRAMES

1.	CONTRACTOR SHALL PROVIDE AND INSTALL ONE EXTERIOR RECESSED ALUMINUM FLOOR GRID MAT AND FRAME WHERE SHOWN ON PLANS.
2.	MAT IS TO BE MANUFACTURED BY BABCOCK DAVIS OR APPROVED EQUAL. THE EXTERIOR MAT IS TO BE TYPE BGD74E, ECO TREAD, ALUMINUM RECESSED FRAME, LEVEL BED, CAST IN PLACE. 6'-0"x3'-0".
3.	SUBMIT MANUFACTURER'S SPECIFICATIONS, SHOP DRAWINGS, AND TECHNICAL DATA TO ARCHITECT FOR REVIEW PRIOR TO ORDERING MATERIALS.
4.	INSTALL SHALL HAVE NOT LESS THAN THREE (3) YEARS OF SUCCESSFUL EXPERIENCE IN THE INSTALLATION OF SYSTEMS SIMILAR TO THIS SYSTEM AND SHALL BE ACCEPTABLE TO BABCOCK DAVIS. CONTRACTOR SHALL INSTALL FRAMES AND MATS PER THE MANUFACTURER'S WRITTEN INSTRUCTIONS. WORK SHALL BE ALIGNED PLUMB, LEVEL, AND FLUSH WITH THE ADJACENT CONCRETE SURFACE. CARPET AND VINYL SHALL BE POSITIVELY LOCKED INTO THE TREAD RAILS. FRAME ANCHORS SHALL BE SPACED AT 24" O.C.
5.	PROVIDE A 12"x12" SAMPLE OF THE FRAME AND MAT TO OWNER FOR APPROVAL.
6.	CONTRACTOR SHALL COORDINATE WITH THE CONCRETE SUBCONTRACTOR FOR PROVIDING THE PROPER LOCATION, SIZE AND DEPTH OF THE PIT REQUIRED FOR THE MAT AND FOR THE INSTALLATION OF THE ALUMINUM FRAMES INTO THE CONCRETE SLAB.
7.	SUBMIT MANUFACTURER'S WARRANTY, TO OWNER THAT MATERIALS FURNISHED WILL PERFORM AS SPECIFIED FOR A PERIOD OF NOT LESS THAN TWO (2) YEARS FOR FLOOR GRIDS AND FLOOR MATS WHEN INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

DIVISION 14 - CONVEYING SYSTEMS

SECTION 1000 - ELEVATOR

1.	REFER TO PLANS FOR ELEVATOR SPECIFICATION.

DIVISION 22 - PLUMBING

1.	REFER TO PLUMBING PLANS

DIVISION 23 - HEATING, VENTILATION AND AIR CONDITIONING

1.	REFER TO MECHANICAL PLANS

DIVISION 26 - ELECTRICAL

1.	REFER TO ELECTRICAL PLANS

REVISIONS	BY

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APN: 109-02-035

DRAWN BY
L.O.
CHECKED BY
W.A.K.
DATE
Oct 30th, 2018
JOB NO.
710
SHEET

A16.5

Nov 01, 2018 - 11:41am

GENERAL STRUCTURAL NOTES

(APPLY UNLESS NOTED OTHERWISE ON PLANS/DETAILS)

GENERAL REQUIREMENTS:

1. THESE DRAWINGS, AND THEIR ASSOCIATED STRUCTURAL CALCULATIONS, HAVE BEEN PERFORMED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE STRUCTURAL ENGINEER'S IN THIS OR SIMILAR LOCALITIES. THEY NECESSARILY ASSUME THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKMEN WHO HAVE A WORKING KNOWLEDGE OF THE INTERNATIONAL BUILDING CODE CONVENTIONAL FRAMING REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR FRAMING ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, IT IS UNDERSTOOD THAT THE CONTRACTOR WILL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR ALL MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.
2. THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED CONSTRUCTION SUCH THAT DESIGN LIVE LOAD PER SQUARE FOOT AS STATED HEREIN IS NOT EXCEEDED. OPTIONS ARE FOR CONTRACTOR'S CONVENIENCE. IF AN OPTION IS USED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CHANGES, AND SHALL COORDINATE ALL DETAILS, AT NO ADDITIONAL COST TO OWNER.
3. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES AND SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN. TYPICAL DETAILS AND NOTES ARE NOT NECESSARILY INDICATED ON THE PLANS, BUT SHALL APPLY NONE-THE-LESS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT. DETAILS MAY SHOW ONLY ONE SIDE OF CONNECTION OR MAY OMIT INFORMATION FOR CLARITY.
4. ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL WITH APPROPRIATE TRADES, DRAWINGS AND SUBCONTRACTORS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION. RESOLVE ANY DISCREPANCY WITH THE ARCHITECT AND STRUCTURAL ENGINEER.
5. ANY INSPECTIONS, SPECIAL (IBC CHAPTER 17) OR OTHERWISE THAT ARE REQUIRED BY THE BUILDING CODES, LOCAL BUILDING DEPARTMENTS, OR BY THESE PLANS SHALL BE DONE BY AN INDEPENDENT INSPECTION COMPANY OR THE BUILDING DEPARTMENT, SITE VISITS BY THE STRUCTURAL ENGINEER DO NOT CONSTITUTE AN OFFICIAL INSPECTION, UNLESS SPECIFICALLY CONTRACTED FOR.
6. SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS IN ADDITION TO ITEMS REQUIRED BY ARCHITECTURAL SPECIFICATIONS, THE CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS PRIOR TO SUBMITTAL. ITEMS NOT IN ACCORDANCE WITH CONTRACT DRAWINGS SHALL BE FLAGGED UPON HIS REVIEW. VERIFY ALL DIMENSIONS WITH ARCHITECT. ANY CHANGES, SUBSTITUTIONS, OR DEVIATIONS FROM ORIGINAL CONTRACT DRAWINGS SHALL BE CLOUDED. ANY OF THE AFOREMENTIONED WHICH ARE NOT CLOUDED OR FLAGGED BY SUBMITTING PARTIES, SHALL NOT BE CONSIDERED APPROVED AFTER THE STRUCTURAL ENGINEER'S REVIEW, UNLESS NOTED ACCORDINGLY. ANY STRUCTURAL ENGINEERING PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW, SHALL BEAR THE SEAL OF A STRUCTURAL ENGINEER REGISTERED IN THE APPROPRIATE STATE. THE SHOP DRAWINGS DO NOT REPLACE THE ORIGINAL CONTRACT DRAWINGS. ITEMS OMITTED OR SHOWN INCORRECTLY AND ARE NOT FLAGGED BY THE STRUCTURAL ENGINEER ARE NOT TO BE CONSIDERED CHANGES TO ORIGINAL DRAWINGS. THE ADEQUACY OF ENGINEERING DESIGNS AND LAYOUT PERFORMED BY THE OTHERS RESTS WITH THE DESIGNING OR SUBMITTING AUTHORITY. REVIEWING IS INTENDED ONLY AS AN AID TO THE CONTRACTOR IN OBTAINING CORRECT SHOP DRAWINGS. RESPONSIBILITY FOR CORRECTNESS SHALL REST WITH THE CONTRACTOR. ALLOW (5) WORKING DAYS FOR THE STRUCTURAL ENGINEER'S REVIEW. ONE COPY OF EACH SUBMITTAL WILL BE RETAINED FOR THE STRUCTURAL ENGINEER'S RECORDS.

BASIS FOR DESIGN:

1. BUILDING CODE: 2012 EDITION OF THE IBC WITH CITY/COUNTY AMENDMENTS.

   RISK CATEGORY = II
2. VERTICAL LOADS:

LOCATION	LIVE / SNOW LOAD	DEAD LOAD
ROOF	30 PSF	16 PSF
FLOOR	50 PSF	32 PSF
FLOOR ASSEMBLY	100 PSF	32 PSF
STAIRS	100 PSF	25 PSF

3. SEISMIC DESIGN PARAMETERS:

ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE PROCEDURE
IMPORTANCE FACTOR	Ie = 1.00
SITE CLASS	C
SEISMIC DESIGN CATEGORY	B
SPECTRAL RESPONSE ACCELERATIONS	Sms = 0.420, Sm1 = 0.173
SPECTRAL RESPONSE COEFFICIENTS	Sds = 0.280, Sd1 = 0.115
HORIZONTAL SHEAR TRANSFER ELEMENTS:	
PLYWOOD – FLEXIBLE DIAPHRAM(S)	R = 6.5
STEEL DECK – FLEXIBLE DIAPHRAM(S)	R = 3.5
VERTICAL SHEAR TRANSFER ELEMENTS:	
PLYWOOD SHEARWALL(S)	R = 6.5
ORDINARY STEEL MOMENT FRAMES(S)	R = 3.5

4. WIND DESIGN PARAMETERS (STRENGTH):

ULTIMATE WIND SPEED	115 MPH (3 SECOND GUST)
WIND EXPOSURE	B
IMPORTANCE FACTOR	Iw = 1.00
INTERNAL PRESSURE COEFFICIENT	-0.18
COMPONENT AND CLADDING PRESSURE	14.8 PSF
NET UPLIFT ON ROOF	25 PSF

FOUNDATION NOTES:

1. FOUNDATIONS DESIGNED IN CONFORMANCE WITH RECOMMENDATIONS BY:
   ENGINEERING AND TESTING CONSULTANTS, INC. REPORT NO. 9772 DATED JANUARY 10, 2018.
   ENGINEERING AND TESTING CONSULTANTS, INC. ADDENDUM DATED APRIL12,2018.
2. SITE PREPARATION AND GRADING REQUIREMENTS OF THE SOIL REPORT AND ANY ADDENDUM'S SHALL BE COMPLETED PRIOR TO CONSTRUCTION OF FOUNDATIONS. ANY TESTS OR INSPECTIONS REQUIRED BY THE SOIL REPORT SHALL BE PERFORMED PRIOR TO PLACEMENT OF FOUNDATION REINFORCING STEEL OR CONCRETE. ALTERATIONS TO SITE PREPARATION OR GRADING SHALL BE REPORTED TO THE GEOTECHNICAL ENGINEER PRIOR TO FOUNDATION CONSTRUCTION.

THE SOIL DESIGN VALUES FOR THE FOUNDATION ARE:

ALLOWABLE BEARING PRESSURE	3500 PSF
ALLOWABLE LATERAL BEARING PRESSURE	300 PSF/FT
ALLOWABLE LATERAL SLIDING COEFFICIENT	0.38
LATERAL BACKFILL PRESSURE (UNRESTRAINED)	35 PSF/FT
LATERAL BACKFILL PRESSURE (RESTRAINED)	54 PSF/FT
SITE CLASS	C

3. A ONE-THIRD INCREASE IN BEARING PRESSURES IS ALLOWED WITH SEISMIC OR WIND LOAD COMBINATIONS. LATERAL BEARING AND LATERAL SLIDING RESISTANCE MAY BE COMBINED.

FOUNDATION BEARING DEPTH
18" BELOW FINISHED GRADE

4. ALL FOUNDATIONS SHALL BEAR ON COMPACTED ENGINEERED FILL 18 INCHES MINIMUM BELOW FINISH GRADE. GRADE IS DEFINED AS TOP OF SLAB FOR INTERIOR FOOTINGS AND LOWEST ADJACENT GRADE WITHIN 5 FEET OF THE BUILDING FOR PERIMETER FOOTINGS. WHERE EXTERIOR PAVING OR CONCRETE IS DIRECTLY ADJACENT TO BUILDING, GRADE IS DEFINED AS TOP OF EXTERIOR PAVING AT LEAST 5 FEET FROM BUILDING. CONCRETE FOOTING EXCAVATIONS SHALL BE CLEAN AND FREE OF LOOSE DEBRIS OR UN-COMPACTED MATERIAL AT TIME OF CONCRETE PLACEMENT.
5. CONCRETE SLABS ON GRADE SHALL BE SUPPORTED ON A 24 INCH LAYER OF SELECT FILL MATERIAL ACCORDING TO THE SPECIFICATIONS OF THE SOIL REPORT. FILL MATERIAL SHOULD BE MOISTENED, BUT NOT SATURATED JUST PRIOR TO PLACING CONCRETE.
6. BACKFILL AGAINST RESTRAINED WALLS SHALL NOT BE PLACED UNTIL AFTER THE WALLS ARE SUPPORTED BY THE COMPLETION OF INTERIOR FLOOR SYSTEMS AND CONCRETE OR GROUT STRENGTH HAS REACHED THE 28 DAY STRENGTH LISTED BELOW.

REINFORCING STEEL:

1. ASTM A615 GRADE 60 (FY = 60 KSI) DEFORMED BARS FOR ALL BARS #5 AND LARGER. ASTM A615 GRADE 40 (FY = 40 KSI) DEFORMED BARS FOR ALL BARS #4 AND SMALLER. GRADE 60 DEFORMED BARS SHALL BE USED FOR CONCRETE WALLS, BEAMS, ELEVATED SLABS AND COLUMN REINFORCING.
2. WELDING OF REINFORCING BARS SHALL BE MADE ONLY TO ASTM A706 GRADE 60 BARS AND ONLY USING E90 SERIES RODS. WELDING OF REINFORCING BARS SHALL BE MADE ONLY AT LOCATIONS SHOWN ON PLANS OR DETAILS.
3. REINFORCING BAR SPACING GIVEN ARE MAXIMUM ON CENTERS. ALL BARS PER CRSI SPECIFICATIONS AND HANDBOOK. DOWEL ALL VERTICAL REINFORCING TO FOUNDATION. SECURELY TIE ALL BARS IN LOCATION BEFORE PLACING CONCRETE.

STEEL:

1. MATERIALS: ROLLED W SHAPES, SHALL CONFORM TO ASTM A992 (FY=50 KSI). ALL OTHER STRUCTURAL STEEL SHAPES, ROLLED SECTIONS, BARS AND PLATES SHALL CONFORM TO ASTM A36 (FY = 36 KSI). ALL PIPE STEEL SHALL BE ASTM A501 (FY = 36 KSI) OR ASTM A53, TYPE E OR S, GRADE B (FY = 35 KSI). ALL TUBULAR STEEL SHALL BE ASTM A500 (FY = 46 KSI).
2. ALL BOLTS AND STUDS SHALL BE ASTM A307, UNLESS NOTED OTHERWISE. ALL EXPANSION BOLTS TO HAVE CURRENT ICBO RATING FOR MATERIAL INTO WHICH INSTALLATION TAKES PLACE. HEADED STUDS SHALL CONFORM TO ALL REQUIREMENTS OF THE LATEST EDITION OF THE "RECOMMENDED PRACTICES FOR STUD WELDING" AND THE "STRUCTURAL WELDING CODE" PUBLISHED BY AWS. ALL BOLTS, ANCHOR BOLTS, EXPANSION BOLTS, ETC. SHALL BE INSTALLED WITH STEEL WASHERS AT FACE OF WOOD OR AT SLOTTED HOLES IN STEEL SECTIONS.
3. ALL STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, LATEST EDITION.
4. WELDING SHALL BE BY WELDERS HOLDING VALID CERTIFICATES AND HAVING CURRENT EXPERIENCE IN THE TYPE OF WELD SHOWN ON THE DRAWINGS OR NOTES. ALL WELDING SHALL USE E70 SERIES LOW HYDROGEN RODS UNLESS NOTED OTHERWISE. ALL WELDING PER LATEST AMERICAN WELDING SOCIETY STANDARDS. ALL WELDS ON DRAWINGS ARE SHOWN AS SHOP WELDS. CONTRACTOR MAY SHOP WELD OR FIELD WELD AT HIS DISCRETION. ALL FULL PENETRATION WELDS SHALL BE TESTED AND CERTIFIED BY AN INDEPENDENT TESTING LABORATORY.
5. STEEL TO STEEL BOLTED CONNECTIONS: HIGH STRENGTH BOLTS SHALL BE ASTM A325N AND SHALL BE INSTALLED AS BEARING-TYPE CONNECTIONS WITH THREADS INCLUDED IN SHEAR PLANE (TYPE "N" CONNECTION). BOLTS MAY BE TIGHTENED USING ANY AISC APPROVED METHOD.
6. DRYPACK SHALL BE 5,000 PSI FIVE STAR NON-SHRINK GROUT OR EQUIVALENT. INSTALL DRYPACK UNDER BEARING PLATES BEFORE FRAMING MEMBER IS INSTALLED. AT COLUMNS, INSTALL DRYPACK UNDER BASE PLATES AFTER COLUMN HAS BEEN PLUMBED BUT PRIOR TO FLOOR OR ROOF INSTALLATION.

ABBREVIATIONS

A.B.C. — AGGREGATE BASE COURSE	GLB (GLULAM) — GLUED-LAMINATED BEAM
A/C — AIR CONDITIONER	I.F.W. — INSIDE FACE OF WALL
A.F.F. — ABOVE FINISHED FLOOR	HORIZ — HORIZONTAL
ALT. — ALTERNATE	K(KIP) — 1000 POUNDS
A.B. — ANCHOR BOLT	L.L. — LIVE LOAD
@ — AT (MEASUREMENT)	LBS (#) — POUNDS
BM — BEAM	LLH — LONG LEG HORIZONTAL
B.F.F — BELOW FINISHED FLOOR	LLV — LONG LEG VERTICAL
B.O.B. — BOTTOM OF BEAM	MFR'(S) — MANUFACTURER(S)
B.O.D. — BOTTOM OF DECK	MCJ — MASONRY CONTROL JOINT
B.O.F. — BOTTOM OF FOOTING	MECH'L — MECHANICAL
BRG — BEARING	N/A — NOT APPLICABLE
C.I.P. — CAST IN PLACE	N.T.S. — NOT TO SCALE
C.L. — CENTERLINE	O.C. — ON CENTER
CLB — CENTERLINE OF BEAM	O.F.W. — OUTSIDE FACE OF WALL
CLC — CENTERLINE OF COLUMN	OPP — OPPOSITE
CLF — CENTERLINE OF FOOTING	P.C. — PRECAST CONCRETE
CLW — CENTERLINE OF WALL	PLF — POUNDS PER LINEAR FOOT
CLR — CLEAR	PREFAB — PREFABRICATED
CONC — CONCRETE	PSF — POUNDS PER SQUARE FOOT
C.C.J — CONCRETE CONTROL JOINT	PSI — POUNDS PER SQUARE INCH
CONC S.J. — CONCRETE SAWCUT JOINT	REINF — REINFORCING
C.M.U. — CONCRETE MASONRY UNIT	SLH — SHORT LEG HORIZONTAL
CONN — CONNECTION	SLV — SHORT LEG VERTICAL
CONT — CONTINUOUS	SIM — SIMILAR
D.L. — DEAD LOAD	SQ. — SQUARE
ø OR DIA. — DIAMETER	STD — STANDARD
DN — DOWN	T.L. — TOTAL LOAD
DWG(S) — DRAWING(S)	T.O.B. — TOP OF BEAM
E.O.S. — EDGE OF SLAB	T.O.D. — TOP OF DECK
EQ. — EQUAL	T.O.F. — TOP OF FOOTING
EQUIP — EQUIPMENT	T.O.L. — TOP OF LEDGER
EXP. BOLT — EXPANSION BOLT	T.O.M. — TOP OF MASONRY
EXP. JT (E.J.) — EXPANSION JOINT	T.O.P. — TOP OF PLATE
E.W. — EACH WAY	T.O.S. — TOP OF STEEL
F.F. — FINISHED FLOOR	T.O.W. — TOP OF WALL
F.O.M. — FACE OF MEMBER	TYP — TYPICAL
F.O.S. — FACE OF STEEL	U.N.O. — UNLESS NOTED OTHERWISE
F.O.W. — FACE OF WALL	VERT — VERTICAL
GA — GAGE	W.W.F. — WELDED WIRE FABRIC
GALV — GALVANIZED	W/ — WITH
GSN — GENERAL STRUCTURAL NOTES	W/O — WITHOUT

CONCRETE:

1. MINIMUM 28 DAY CONCRETE STRENGTH SHALL BE AS FOLLOWS:

USE:	CONCRETE STRENGTH:	REMARKS:
FOUNDATIONS	2500 PSI	DESIGNED FOR 2500 PSI
CONCRETE SLABS ON GRADE	3000 PSI	W/O INSPECTION
WALL	4000 PSI	SPECIAL INSPECTION

2. ALL NORMAL WEIGHT CONCRETE SHALL BE REGULAR WEIGHT OF 150 POUNDS PER CUBIC FOOT USING HARD-ROCK AGGREGATES. AGGREGATE USED IN CONCRETE SHALL CONFORM TO ASTM C67 FOR ¾", ASTM C57 FOR 1" AND ASTM C467 FOR 1½" AGGREGATE.
3. TENSION LAP SPLICES OF REINFORCING STEEL IN CONCRETE SHALL BE AS FOLLOW:

REBAR SIZE	STANDARD LAP	RETAINING WALLS (AT FACE OF WALL)
#3	20"	20"
#4	32"	41"
#5	39"	51"
#6	47"	61"

LAP SPLICES FOR BEAMS AND FLOOR SLABS SHALL BE ACCORDING TO CHAPTER 12 OF ACI 318 OR LAP SCHEDULE ON THESE DRAWINGS.

NO TACK WELDING OF REINFORCING BARS ALLOWED WITHOUT PRIOR REVIEW OF PROCEDURE WITH THE STRUCTURAL ENGINEER. LATEST ACI CODE AND DETAILING MANUAL APPLY. PROVIDE BENT CORNER BARS TO MATCH AND LAP WITH HORIZONTAL BARS AT ALL CORNERS AND INTERSECTIONS PER TYPICAL DETAILS. VERTICAL WALL BARS SHALL BE SPLICED AT OR NEAR FLOOR LINES.

4. ALL DIMENSIONS SHOWING THE LOCATION OF REINFORCING STEEL NOT NOTED AS "CLEAR" OR "CLR" ARE TO CENTER OF STEEL. MINIMUM COVER FOR NON-PRESTRESSED CONCRETE REINFORCING SHALL BE AS FOLLOWS:

LOCATION:	MINIMUM COVER	TOLERANCE
CAST AGAINST EARTH (FOOTINGS)	3"	± ⅜"
SLABS ON GRADE	1½"	± ¼"
EXPOSED TO EARTH OR WEATHER – #5 AND SMALLER	1½"	± ⅜"
EXPOSED TO EARTH OR WEATHER – #6 AND LARGER	2"	± ⅜"
STRUCTURAL SLABS AND WALLS	¾"	⅛"

5. MAXIMUM SLUMP FOR ALL CONCRETE SHALL BE 4". SLUMP FOR EXTERIOR SLABS SHALL BE 6". PORTLAND CEMENT SHALL CONFORM TO ASTM C150. TYPE V CEMENT SHALL BE USED FOR CONCRETE IN CONTACT WITH ALKALINE SOIL, AND TYPE II ELSEWHERE.
6. NO MORE THAN 90 MINUTES SHALL ELAPSE BETWEEN CONCRETE BATCHING AND CONCRETE PLACEMENT UNLESS APPROVED BY THE TESTING AGENCY.
7. CONCRETE PLACEMENT AND QUALITY SHALL BE PER RECOMMENDATIONS IN ACI 614, ACI 301 AND ACI 318. MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED, EXCEPT THAT SLABS ON GRADE NEED BE VIBRATED ONLY AROUND AND UNDER FLOOR DUCTS, ETC. CAST CLOSURE POUR, WHERE SHOWN ON PLANS AROUND COLUMNS AFTER COLUMN DEAD LOAD IS APPLIED. REMOVE ALL DEBRIS FROM FORMS BEFORE PLACING CONCRETE.

   ALL ITEMS TO BE CAST IN CONCRETE SUCH AS REINFORCING, DOWELS, BOLTS, ANCHORS, PIPES, SLEEVES, ETC., SHALL BE SECURELY POSITIONED IN THE FORMS BEFORE PLACING THE CONCRETE.
8. ALL CONCRETE SLABS ON GRADE SHALL BE DIVIDED INTO AREAS BY CONTROL JOINTS (KEYED OR SAW CUT) SUCH THAT ONE SLAB AREA DOES NOT EXCEED 250 SQUARE FEET, OR BE MORE THAN TWO TIMES LONGER THAN THE SLAB AREA WIDTH. THE FOUNDATION PLAN SHOWS A SUGGESTED METHOD OF CONTROL JOINT LAYOUT. IT IS RECOMMENDED THAT SAW CUTS BE MADE WITHIN 16 HOURS OF CONCRETE BATCHING.

   KEYED CONTROL JOINTS NEED ONLY OCCUR AT EXPOSED EDGES DURING POURING, ALL OTHER JOINTS MAY BE SAW CUT.
9. HORIZONTAL PIPES AND ELECTRICAL CONDUITS SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE AND SLABS ON GRADE EXCEPT WHERE SPECIFICALLY APPROVED OR NOTED BY THE STRUCTURAL ENGINEER. PIPES AND CONDUITS SHALL NOT IMPAIR THE STRENGTH OF THE WORK.
10. FLY ASH MAY BE USED ONLY IF PERMITTED BY ARCHITECTURAL SPECIFICATIONS AND SHALL BE LIMITED TO 18 PERCENT OF CEMENTITIOUS MATERIALS AND SHALL HAVE A REPLACEMENT FACTOR OF 1:2 RELATIVE TO CEMENT REPLACED. NO FLY ASH ADDITIVES SHALL BE USED IN FLATWORK OR ARCHITECTURALLY EXPOSED CONCRETE.
11. COLD/HOT WEATHER CONCRETE CONSTRUCTION: PROTECT CONCRETE FROM DAMAGE OR REDUCED STRENGTH IN COMPLIANCE WITH ACI 305 AND 306.

WOOD:

1. SAWN LUMBER: FRAMING LUMBER SHALL COMPLY WITH THE LATEST EDITION OF THE GRADING RULES OF THE WESTERN WOOD PRODUCTS ASSOCIATION (WWPA) OR THE WEST COAST LUMBER INSPECTION BUREAU (WCLIB). ALL SAWN LUMBER SHALL BE STAMPED WITH THE GRADE MARK OF AN APPROVED LUMBER GRADING AGENCY. SAWN LUMBER SHALL HAVE THE FOLLOWING MINIMUM GRADE UNLESS NOTED OTHERWISE IN SCHEDULES:
2. PLYWOOD: ALL PLYWOOD SHALL BE C-D OR C-C SHEATHING CONFORMING TO STANDARD PS 1-95. LAY UP PLYWOOD WITH FACE GRAIN IN PERPENDICULAR TO SUPPORTS (ON ROOFS WHERE PLYWOOD IS LAID UP WITH FACE GRAIN PARALLEL TO SUPPORTS, USE A MINIMUM OF 5-PLY PLYWOOD, STAGGER JOINTS). ALL NAILING, COMMON NAILS. BLOCKING AT PANEL EDGES WHERE INDICATED ON PLANS. ALL PLYWOOD SHALL BE OF THE FOLLOWING NOMINAL THICKNESS, SPAN/INDEX RATING AND SHALL BE NAILED AS FOLLOWS UNLESS NOTED OTHERWISE ON THE PLANS:

LOCATION:	NOMINAL THICKNESS:	SPAN INDEX RATING:	EDGE ATTACHMENT:	FIELD ATTACHMENT:
WALLS	½" OR ⅜"	24/0	#8 SCREWS AT 6" O.C.	#8 SCREWS AT 6" O.C.
FLOOR	1⅛" T&G	60/48	#8 SCREWS AT 6" O.C.	#8 SCREWS AT 12" O.C.

SCREWS AT FLOOR SHEATHING SHALL BE #8 SCREWS AND SHALL PENETRATE AT LEAST 1½" INTO THE SUPPORTING MEMBER. ALL FLOOR SHEATHING SHALL BE GLUED TO SUPPORTING MEMBERS WITH ANAPA AFG-01 QUALIFIED GLUE.

PLYWOOD ALTERNATE: AMERICAN PLYWOOD ASSOCIATION PERFORMANCE RATED SHEATHING MAY BE USED AS AN ALTERNATE TO PLYWOOD WITH PRIOR APPROVAL OF OWNER, ARCHITECT AND ROOFER. IT MAY NOT BE USED ON ROOFS WHERE BUILT-UP ROOF SYSTEM IS TO BE GUARANTEED BY ROOFER. RATED SHEATHING SHALL COMPLY WITH ICBO REPORT NER-108, EXPOSURE 1, AND SHALL HAVE A SPAN RATING EQUIVALENT TO OR BETTER THAN THE PLYWOOD IT REPLACES. ATTACHMENT AND THICKNESS (WITHIN ½") SHALL BE THE SAME AS THE PLYWOOD IT REPLACES. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

MASONRY (CONCRETE BLOCK):

MINIMUM 28 DAY MASONRY STRENGTH SHALL BE 1500 PSI.

1. VERTICAL REINFORCING: #4 AT 48 INCHES ON CENTER FULL HEIGHT OF WALL, CENTERED IN GROUTED CELL AND AT ALL WALL INTERSECTIONS, CORNERS, WALL ENDS, JAMBS, OVER LINTELS, AND EACH SIDE OF CONTROL JOINTS (MINIMUM UNLESS NOTED OTHERWISE ON PLANS/DETAILS). TIE AT 8'-0" VERTICALLY, WITH SINGLE WIRE LOOP TIE OR EQUIVALENT. DOWEL ALL REINFORCING TO FOUNDATION WITH DOWELS TO MATCH AND LAP VERTICAL WALL OR COLUMN REINFORCING.
2. CONTROL JOINTS: UNLESS NOTED OTHERWISE ON THE PLANS, PLACE CONTROL JOINTS IN MASONRY WALLS SUCH THAT NO STRAIGHT RUN OF WALL EXCEEDS 24'-0". CONTROL JOINTS SHALL NOT OCCUR AT WALL CORNERS, INTERSECTIONS, ENDS, WITHIN 24" OF CONCENTRATED POINTS OF BEARING OR JAMBS, OR OVER OPENINGS UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS.
3. HORIZONTAL REINFORCING: (MINIMUM UNLESS NOTED OTHERWISE ON PLANS/DETAILS) (2) #4 BARS IN CENTER OF 16 INCH DEEP MINIMUM CONTINUOUS GROUTED BOND BEAM AT ELEVATED FLOOR AND ROOF LINES. FOR 8 INCH THICK WALLS, ONE #4 BAR IN CENTER OF 8 INCH DEEP CONTINUOUS GROUTED BOND BEAM AT INTERVALS NOT TO EXCEED 48 INCHES ON CENTER AND AT TOP OF PARAPET OR FREE STANDING WALLS.

   HORIZONTAL BARS AT TOP OF PARAPET OR FREE STANDING WALLS SHALL BE PLACED 8 INCHES DOWN FROM THE TOP IN AN UPSIDE DOWN BOND BEAM BLOCK.

   PLACE HORIZONTAL BARS CONTINUOUS THROUGH CONTROL JOINTS. PROVIDE BENT BARS PER TYPICAL DETAILS, TO MATCH HORIZONTAL BOND BEAM REINFORCING, AT CORNERS AND WALL INTERSECTION TO MAINTAIN BOND BEAM CONTINUITY.
4. TENSION LAP SPLICES OF REINFORCING STEEL IN MASONRY SHALL BE AS FOLLOWS:

REBAR SIZE	STANDARD LAP	RETAINING WALLS (AT FACE OF WALL)
#4	24"	30"
#5	30"	46"
#6	43"	55"

5. REINFORCING PLACEMENT TOLERANCES: ALL DIMENSIONS SHOWING THE LOCATION OF REINFORCING STEEL NOT NOTED AS "CLEAR" OR "CLR" ARE TO CENTER OF STEEL. TOLERANCES FOR PLACEMENT OF VERTICAL REINFORCING SHALL BE (±) ½" PERPENDICULAR TO WALL AND (±) 2" ALONG THE LENGTH OF THE WALL. PROVIDE ½" CLEARANCE BETWEEN MASONRY UNITS AND REINFORCING, AND REINFORCING RUNNING IN THE SAME DIRECTION. LAPS MAY BE BESIDE OR OVER THE REINFORCING BEING SPLICED.
6. BLOCK QUALITY: CONCRETE BLOCK SHALL BE HOLLOW LIGHTWEIGHT LOAD-BEARING CONCRETE MASONRY UNITS CONFORMING TO ASTM 90-75 WITH A MINIMUM COMPRESSIVE STRENGTH OF 1900 PSI. USE BOND BEAM UNITS AT HORIZONTAL REINFORCING.
7. MORTAR: MORTAR MIX SHALL CONFORM TO REQUIREMENTS OF THE IBC STANDARDS, TYPE M OR S. MORTAR SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 1800 PSI AT 28 DAYS.
8. GROUT: GROUT SHALL CONFORM TO REQUIREMENTS OF CHAPTER 21 OF THE IBC FOR COARSE GROUT. USE SUFFICIENT WATER FOR GROUT TO FLOW INTO ALL JOINTS OF THE MASONRY WITHOUT SEGREGATION; GROUT SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AT 28 DAYS. ALL CELLS IN CONCRETE BLOCKS CONTAINING REINFORCING SHALL BE FILLED SOLID WITH GROUT. ALL MASONRY BELOW FINISHED FLOOR OR GRADE SHALL BE GROUTED SOLID. ALL GROUT SHALL BE MECHANICALLY VIBRATED.

   GROUT LIFTS OF 5 FEET OR LESS IS RECOMMENDED. FOR HIGHER GROUT LIFTS, CLEANOUTS (3"X3") AT THE BOTTOM OF ALL VERTICALLY REINFORCED CELLS SHALL BE PROVIDED. IN ADDITION, MECHANICAL DEVICES SHALL BE USED TO POSITION AND SECURE REINFORCING WHEN GROUT LIFTS EXCEED 5 FEET IN HEIGHT. IN SOLID GROUTED MASONRY, CLEANOUTS SHALL NOT BE SPACED MORE THAN 32" O.C.
9. BLOCK CONSTRUCTION: ALL BLOCKS SHALL BE PLACED IN RUNNING BOND CONSTRUCTION (UNLESS OTHERWISE NOTED) WITH ALL VERTICAL CELLS IN ALIGNMENT.
10. MISCELLANEOUS LINTELS:
    FOR MISCELLANEOUS OPENINGS (4'-8" OR LESS) NOT SHOWN ON PLANS OR IN A SCHEDULE, BUT REQUIRED BY OTHER DISCIPLINES (MECHANICAL, ELECTRICAL, PLUMBING, ETC.) THE FOLLOWING OPTIONS MAY BE USED IN 8" MASONRY WALLS:

    GROUTED REINFORCED MASONRY LINTEL: REINFORCE WITH (2) #4 HORIZONTAL BARS IN BOTTOM OF BOND BEAM OR LINTEL BLOCK AND SHALL BE GROUTED SOLID TO A MINIMUM DEPTH OF 12 INCHES. ALL LINTEL REINFORCING AND GROUT SHALL EXTEND 24" PAST JAMBS.

    THESE LINTELS, OR THE OPENING THEY SPAN, SHALL NOT BE PLACED SO AS TO INTERFERE WITH THE REQUIREMENTS OF OTHER STRUCTURAL ELEMENTS (I.E. BOND BEAMS, LINTELS, CONTROL JOINTS, CONCENTRATED POINTS OF BEARING, ETC.) WITHOUT THE PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.

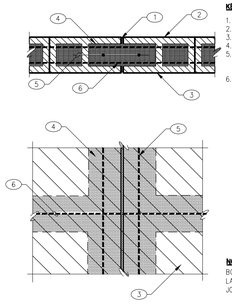
    SOLID GROUT SHALL BE PROVIDED BETWEEN WEBS AND MASONRY FACE SHELLS FOR FULL LENGTH OF ALL STEEL LINTELS. MORTAR MAY BE USED FOR GROUT FOR THIS PURPOSE ONLY. FACE UNITS, SOAPS, ROMANS, ETC., SHALL BE LAID WITH FULL HEAD AND BED JOINTS.

    FOR ADDITIONAL INFORMATION AT OPENINGS IN MASONRY WALLS, SEE TYPICAL DETAILS.

COLD FORMED STEEL (ICBO ER 4943P):

1. MATERIALS: STANDARD COLD-FORMED STEEL STUDS, JOISTS, TRACK, BRIDGING AND STRAPS SHALL CONFORM TO AISI NAS-01 WITH 2004 SUPPLEMENT (FY = 33 KSI). STEEL FOR PURLINS AND GIRTS SHALL CONFORM TO (FY = 55 KSI). STEEL SHALL BE GALVANIZED AT EXTERIOR WALLS AND FRAMING.
2. FRAMING SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND IN ACCORDANCE WITH THE LATEST EDITION OF "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" BY THE AMERICAN IRON AND STEEL INSTITUTE(AISI).
3. ALL STUDS SHALL BE SECURELY SEATED FOR FULL END BEARING ON TOP AND BOTTOM TRACK. UNLESS NOTED OTHERWISE, PROVIDE DOUBLE STUDS AT ALL JAMBS, CORNERS, INTERSECTIONS, BEAM BEARINGS AND JOIST BEARINGS.
4. ALL WELDING SHALL BE PERFORMED BY WELDERS EXPERIENCED IN LIGHT GAGE STRUCTURAL STEEL FRAMING WORK. MEMBERS SHALL HAVE THE FOLLOWING MINIMUM EFFECTIVE PROPERTIES PER STEEL STUD MANUFACTURERS ASSOCIATION(SSMA):

TYPE/STYLE	MEMBER	MILS(GA)	FY
3⅝"X20GA. STUD	362S162-33	33(20)	33KSI
3⅝"X20GA. TRACK	362T162-33	33(20)	33KSI
3⅝"X16GA. STUD	362S162-54	54(16)	33KSI
3⅝"X16GA. TRACK	362T162-54	54(16)	33KSI
6"X20GA. ST

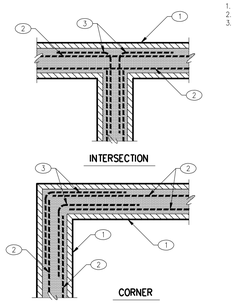


KEY NOTES:

1. RAKE JOINT.
2. OPEN END MASONRY UNIT.
3. MASONRY WALL.
4. GROUT SOLID.
5. 1 VERTICAL BAR EACH SIDE OF CONTROL JOINT TO MATCH VERTICAL WALL REINFORCING.
6. HORIZONTAL REINFORCING CONTINUOUS THRU CONTROL JOINT.

NOTE:
BOND BEAM BARS CANNOT BE LAPPED WITHIN 8'-0" OF CONTROL JOINT

T16 CONTROL JOINT IN MASONRY LINTEL
02-M05 — NO SCALE



KEY NOTES:

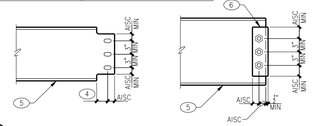
1. MASONRY WALL.
2. BOND BEAM REINFORCING.
3. CORNER BARS SAME SIZE AND SPACING AS HORIZONTAL REINFORCING – MINIMUM LAP PER G.S.N..

T17 PLAN – CORNER REINFORCING IN MASONRY WALLS
02-M0201 — NO SCALE

NOMINAL BEAM DEPTH "D"	NUMBER OF ¾"ø ASTM, A325N BOLTS
UP TO 7"	2
8" – 11"	2
12" – 14"	3
15" – 17"	4
18" – 20"	5
21" – 23"	6
24" – 29"	7
30" – 32"	8
33" – 35"	9
36"	10

KEY NOTES:

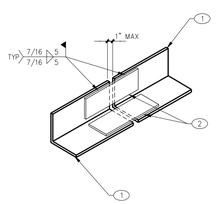
1. THE TYPICAL STEEL BEAM TO STEEL COLUMN OR STEEL BEAM TO STEEL BEAM CONNECTION CONSISTS OF ¾" THICK SINGLE SHEAR PLATES WITH ¾"ø ASTM A325N BOLTS. USE ⅞" SHEAR PLATES WHERE "D"=27" OR GREATER.
2. ALL BOLTS SHALL BE INSTALLED USING SHORT SLOTTED HOLES IN EITHER THE BEAM WEB OR THE SHEAR PLATE PER LATEST AISC SPECIFICATIONS.
3. MAINTAIN MINIMUM BOLT SPACING AND EDGE DISTANCES PER AISC SPECIFICATIONS 1.16.4 AND 1.16.5. AND AS SHOWN BELOW.
4. CLIP FLANGE FOR ½" CLR.
5. STEEL BEAM.
6. SHEAR PLATE.



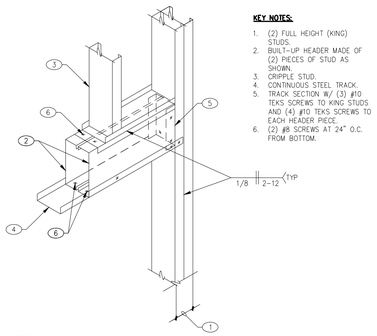
T18 BOLT SCHEDULE FOR STEEL CONNECTIONS
02-S02 — NO SCALE

KEY NOTES:

1. STEEL LEDGER ANGLE – FOR SIZE AND LOCATION, SEE LEDGER SCHEDULE.
2. 12" LONG X 4" X ½" THICK STEEL PLATES.



T19 TYPICAL SPLICE IN CONTINUOUS STEEL LEDGER ANGLE
02-SL01 — NO SCALE



KEY NOTES:

1. (2) FULL HEIGHT (KING) STUDS.
2. BUILT-UP HEADER MADE OF (2) PIECES OF STUD AS SHOWN.
3. CRIPPLE STUD.
4. CONTINUOUS STEEL TRACK.
5. TRACK SECTION W/ (3) #10 TEKS SCREWS TO KING STUDS AND (4) #10 TEKS SCREWS TO EACH HEADER PIECE.
6. (2) #8 SCREWS AT 24" O.C. FROM BOTTOM.

T12 LIGHT GUAGE STEEL BOX-BEAM HEADER
02-LGS03.1 — NO SCALE

GENERAL STRUCTURAL NOTES:

1. ALL COLD-FORMED STEEL FRAMING SHALL BE FABRICATED AND ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND IN ACCORDANCE WITH THE LATEST EDITION OF "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" BY THE AMERICAN IRON AND STEEL INSTITUTE AND METAL STUD MANUFACTURER'S ASSOCIATION – ICBO #4943.
2. STEEL FOR ALL STUDS AND FOR ALL GAGES OF TRACK, ACCESSORIES AND BRIDGING SHALL HAVE A MINIMUM YIELD STRENGTH OF 33 KSI.
3. ALL STUDS SHALL BE SECURELY SEATED FOR FULL END BEARING ON TOP AND BOTTOM TRACK. UNLESS NOTED OTHERWISE, PROVIDE DOUBLE STUDS AT ALL JAMBS, CORNERS, AND INTERSECTIONS. BRIDGING SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AT MID HEIGHT OF WALL FOR WALLS LESS THAN 10'-0" HIGH, AND AT 5'-0" FOR WALLS GREATER THAN 10'-0" HIGH.

ALLOWABLE WALL HEIGHTS FOR FULL HEIGHT INTERIOR WALL PARTITIONS				BRACE SPACING WHERE OCCURS
STUD SIZE	TRACK SIZE	STUD SPACING 16" O.C.	STUD SPACING 24" O.C.	
600 XC 20GA	600 MT 20GA	32'-3" A.F.F.	28'-4" A.F.F.	10'-0" O.C.
358 XC 20GA	358 MT 20GA	21'-11" A.F.F.	19'-2" A.F.F.	10'-0" O.C.
358 XC 20GA	358 MT 20GA	14'-3" A.F.F.	11'-7" A.F.F.	8'-0" O.C.
250 XC 20GA	250 MT 20GA	16'-6" A.F.F.	14'-5" A.F.F.	8'-0" O.C.
250 XC 20GA	250 MT 20GA	11'-6" A.F.F.	9'-6" A.F.F.	8'-0" O.C.

VALUES BASED ON NO AXIAL LOAD, 5 PSF LATERAL LOAD, AND A DEFLECTION LIMIT OF H/120 (VERIFY WITH ARCHITECTURAL SPECIFICATIONS FOR SPECIAL REQUIREMENT). BRACING DESIGN BASED ON MAXIMUM WALL HEIGHT (TO CEILING) OF 10'-0".

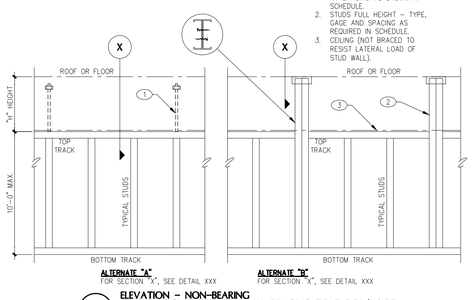
INSTALLATION OPTIONS:

1. STEEL STUDS WALLS THAT SPAN FULL HEIGHT TO UNDERSIDE OF STRUCTURE MAY BE INSTALLED UNBRACED PER SCHEDULE ABOVE AND DETAIL 33.
2. STEEL STUD WALLS PER SCHEDULE ABOVE MAT BE INSTALLED WHEN BRACED PER DETAIL 34 OR 35.
3. PLANS AND DETAILS OF OPTIONAL METHODS SHALL BE PROVIDED TO THE ENGINEER FOR REVIEW PRIOR TO INSTALLATION.
4. FOR ADDITIONAL INFORMATION, SEE DETAILS 14, 15, AND 36.
5. BOTTOM TRACK SHALL BE ATTACHED TO CONCRETE FLOORS USING ½"ø EXPANSION ANCHORS AT 48" O.C. (2 MIN PER TRACK) WITH 2¾" EMBEDMENT.

T13 NON-BEARING INTERIOR STEEL STUD WALL SCHEDULE
02-LGS0701 — NO SCALE

KEY NOTES:

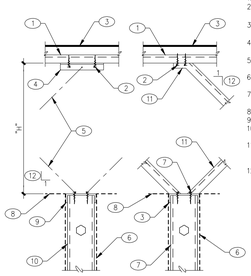
1. DIAGONAL TENSION BRACING AT SPACING AS SHOWN IN SCHEDULE.
2. STUDS FULL HEIGHT – TYPE, GAGE AND SPACING AS REQUIRED IN SCHEDULE.
3. CEILING (NOT BRACED TO RESIST LATERAL LOAD OF STUD WALL).



ALTERNATE "A" FOR SECTION "X", SEE DETAIL XXX

ALTERNATE "B" FOR SECTION "X", SEE DETAIL XXX

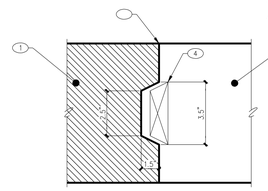
T14 ELEVATION – NON-BEARING CEILING HEIGHT INTERIOR WALL BRACING TO FLOOR/ROOF
02-LGS0703 — NO SCALE



KEY NOTES:

1. STEEL DECK WHERE OCCURS.
2. (2)–HILTI DN .148"ø PINS OR (2)–#10 SCREWS TO DECK.
3. CONCRETE SLAB WHERE OCCURS.
4. STEEL ANGLE 1½" X 18 GA. X 12" LONG.
5. #12 GAGE WIRES LOOPED AROUND TRACK AT STUD, WALL COVERING WHERE OCCURS.
6. (2)–#10 SCREWS AT EACH BRACE.
7. CEILING LINE.
8. TOP TRACK.
9. STUD AT BRACE ATTACH BRACE.
10. DIAGONAL TENSION BRACE – 358 IC 25 GA. STUD EACH SIDE.
11. "I" VERTICAL WHERE "H" IS 8'-0" OR LESS. "2" MAX WHERE "H" IS GREATER THAN 8'-0".

T15 NON-BEARING TOP TRACK SUPPORT DETAIL – TOP CONNECTION
02-LGS0704 — NO SCALE



KEY NOTES:

1. CONCRETE FOOTING – 1ST POUR.
2. CONCRETE FOOTING – 2ND POUR.
3. FORMED KEY IN CONCRETE FOOTING.
4. BEVELED WOOD 2X4 "BUCK".

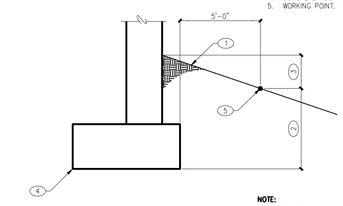
NOTES:

1. LOCATE KEY AT MID-DEPTH OF CONCRETE FOOTING.
2. REMOVE "BUCK" PRIOR TO PLACING 2ND POUR.

T8 TYPICAL – KEY IN CONCRETE FOOTING COLD JOINT
02-F0203 — NO SCALE

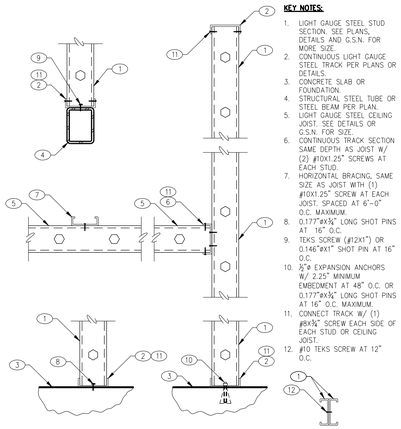
KEY NOTES:

1. SLOPED FINISH GRADE.
2. MINIMUM FOOTING DEPTH PER G.S.N. – 12" MINIMUM.
3. DEEPEN FOOTING AS REQUIRED TO ACCOUNT FOR SLOPED GRADE.
4. CONCRETE FOOTING.
5. WORKING POINT.



NOTE:
FOR ADDITIONAL INFORMATION, SEE PLANS AND DETAILS.

T9 TYPICAL DETAIL FOR FOUNDATION AT SLOPING GRADE
02-F1101 — NO SCALE



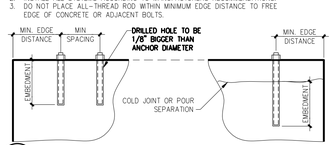
KEY NOTES:

1. LIGHT GAUGE STEEL STUD SECTION. SEE PLANS, DETAILS AND G.S.N. FOR MORE SIZE.
2. CONTINUOUS LIGHT GAUGE STEEL TRACK PER PLANS OR DETAILS.
3. CONCRETE SLAB OR FOUNDATION.
4. STRUCTURAL STEEL TUBE OR STEEL BEAM PER PLAN.
5. LIGHT GAUGE STEEL CEILING JOIST. SEE DETAILS OR G.S.N. FOR SIZE.
6. CONTINUOUS TRACK SECTION SAME DEPTH AS JOIST W/ (2) #10X1.25" SCREWS AT EACH STUD.
7. HORIZONTAL BRACING, SAME SIZE AS JOIST WITH (1) #10X1.25" SCREW AT EACH JOIST, SPACED AT 6'–0" O.C. MAXIMUM.
8. 0.177"ø X ¾" LONG SHOT PINS AT 16" O.C.
9. TEKS SCREW (#12X1") OR 0.146"ø X1" SHOT PIN AT 16" O.C.
10. ½"ø EXPANSION ANCHORS W/ 2.25" MINIMUM EMBEDMENT AT 48" O.C. OR 0.177"ø X ¾" LONG SHOT PINS AT 16" O.C. MAXIMUM.
11. CONNECT TRACK W/ (1) #8X¾" SCREW EACH SIDE OF EACH STUD OR CEILING JOIST.
12. #10 TEKS SCREW AT 12" O.C.

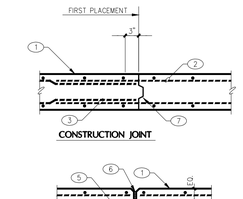
T10 TYPICAL LIGHT GAUGE STEEL CONNECTIONS
NO SCALE

ALL THREAD SIZE	REBAR SIZE	SPACING OR EDGE DISTANCE	EMBEDMENT DEPTH	SPACING OR EDGE DISTANCE	EMBEDMENT DEPTH
3/8"ø	#3	2" TO 6"	8"	6" MIN.	6"
1/2"ø	#4	2" TO 6"	11"	6" MIN.	6"
5/8"ø	#5	2" TO 7.5"	12"	7.5" MIN.	7"
3/4"ø	#6	2" TO 9"	14"	9" MIN.	9"
7/8"ø	#7	3" TO 10.5"	16"	10.5" MIN.	11"
1"ø	#8	3" TO 12"	20"	12" MIN.	14"

1. CONCRETE: USE HILTI HIT–RE 500–SD ADHESIVE (ESR–2322) OR SIMPSON SET–XP (ESR–2508). MASONRY: USE SIMPSON "SET" ADHESIVE (ESR–1772).
2. INSTALL ALL SYSTEMS ACCORDING TO MANUFACTURERS RECOMMENDATIONS.
3. DO NOT PLACE ALL–THREAD ROD WITHIN MINIMUM EDGE DISTANCE TO FREE EDGE OF CONCRETE OR ADJACENT BOLTS.



T11 TYPICAL EPOXY ANCHOR INSTALLATION
02-S0102 — NO SCALE



KEY NOTES:

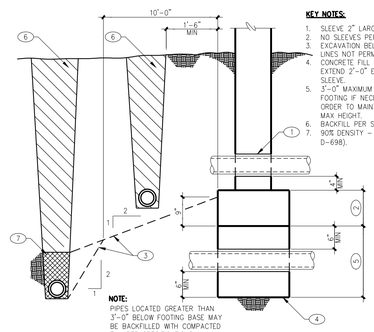
1. CONCRETE WALL.
2. REINFORCING PER PLAN.
3. MINIMUM LAP PER G.S.N.
4. 1"ø X 10" LONG PIPE (PLUG END).
5. ¾"ø X 1'–6" SMOOTH DOWEL AT 18" O.C.
6. ½" BITUMINOUS JOINT FILLER.
7. 2X4 CONCRETE KEY.

NOTE:
ALL RETAINING WALLS SHALL HAVE CONSTUCTION JOINTS SPACED AT NOT MORE THAN 30'–0" APART REINFORCING STEEL SHALL PROJECT THROUGH THE JOINT.

EXPANSION JOINTS SHALL BE PROVIDED AT INTERVALS NOT EXCEEDING 90'–0" REINFORCING SHALL NOT PROJECT THROUGH THE JOINT.

FOOTINGS MAY BE CONTINUOUS WITH NO JOINT.

T4 TYPICAL VERTICAL CONCRETE CONSTRUCTION/EXPANSION JOINT
02-C03 — NO SCALE

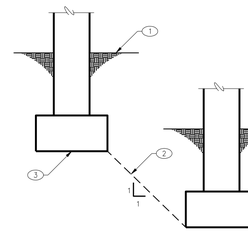


KEY NOTES:

1. SLEEVE 2" LARGER THAN PIPE.
2. NO SLEEVES PERMITTED.
3. EXCAVATION BELOW THESE LINES NOT PERMITTED.
4. CONCRETE FILL PIPE TRENCH – EXTEND 2'–0" EACH SIDE OF SLEEVE.
5. 3'–0" MAXIMUM – STEP FOOTING IF NECESSARY IN ORDER TO MAINTAIN 3'–0" MAX HEIGHT.
6. BACKFILL PER SPECS.
7. 90% DENSITY – (ASTM D–698).

NOTE:
PIPES LOCATED GREATER THAN 3'–0" BELOW FOOTING BASE MAY BE BACKFILLED WITH COMPACTED FILL PER SPECIFICATIONS.

T5 PIPES AND TRENCHES AT CONCRETE FOOTING
02-F03 — NO SCALE

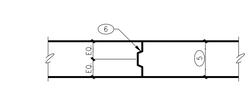


KEY NOTES:

1. FINISHED GRADE WHERE OCCURS.
2. DO NOT PLACE LOWER FOOTINGS BELOW LINE OF INFLUENCE.
3. UPPER CONCRETE FOOTING.
4. LOWER CONCRETE FOOTING.

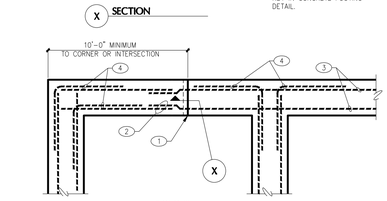
NOTES:
FOR ADDITIONAL INFORMATION SEE PLANS AND DETAILS.

T6 TYPICAL DETAIL FOR ADJACENT FOUNDATIONS
02-F11 — NO SCALE

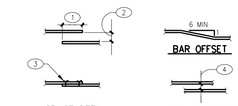


KEY NOTES:

1. CONSTRUCTION JOINT.
2. LAP SPLICE PER G.S.N.
3. FOOTING REINFORCING PER PLAN.
4. CORNER BARS X 24"
5. FOOTING THICKNESS.
6. FOOTING KEY – SEE TYPICAL KEY IN CONCRETE FOOTING DETAIL.



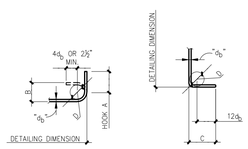
T7 TYPICAL – CORNER REINFORCING AND CONSTRUCTION JOINTS IN CONCRETE FOOTINGS
02-F0202 — NO SCALE



KEY NOTES:

1. LAP – SEE G.S.N.
2. MAXIMUM ⅜ LAP BUT NOT MORE THAN 6".
3. WIRE TIES.
4. 1d (1" MINIMUM).
5. RADIUS=3d FOR BARS NOT OVER #5; 4d FOR #6, #10 AND #1 BARS; 5d FOR #14 AND #18 BARS; 5d FOR ALL GRADE 40 BARS WITH 180 DEGREE HOOK.
6. 4d (4" MINIMUM).
7. 12d (90 DEGREE HOOK).
8. 6d (4" MINIMUM).
9. 135 DEGREE BEND.
10. BEND AROUND 1½" PIN FOR #3 BARS. BEND AROUND 2" PIN FOR #4 BARS. BEND AROUND 2½" PIN FOR #5 BARS.

T1 TYPICAL REINFORCING DETAILS
02-C0101 — NO SCALE

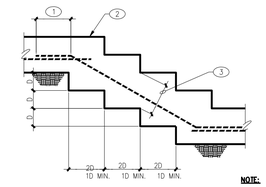


REBAR SIZE	END HOOKS ALL GRADES			
	180 HOOKS		90 HOOKS	BEND
	A	B	C	D
#3	5"	3"	6"	2.25"
#4	6"	4"	8"	3"
#5	7"	5"	10"	3.75"
#6	8"	6"	12"	4.5"
#7	10"	7"	14"	5.25"
#8	11"	8"	16"	6"

T2 TYPICAL STEEL REINFORCING HOOK SCHEDULE
02-C0102 — NO SCALE

KEY NOTES:

1. MINIMUM LAP PER G.S.N. (24" MIN.) – TYPICAL.
2. TOP OF WALL FOOTING.
3. REGULAR FOOTING THICKNESS AS SHOWN ON PLAN OR FOOTING SCHEDULE.



NOTE:
D = 2'–0" MAXIMUM.

T3 TYPICAL STEP IN CONCRETE FOOTING
02-F01 — NO SCALE

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JOB NO.: 2017–0325 | PROJECT MANAGER: SL/RKF | CAD OPERATOR: ###

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REVISIONS	BY

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Registered Professional Engineer — CERTIFICATE NO. 27341 — RICHARD K. FROST — SIGNED 1.3.19 — ARIZONA U.S.A.

EXPIRES 9/30/2020

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ARCHITECTURE & PLANNING

DRAWING: TYPICAL DETAILS

PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ, 86301

PROJECT: 109-02-035

DRAWN BY	MJS
CHECKED BY	SL / RKF
DATE	1/3/19
SCALE	AS NOTED
JOB NO.	2017-0325
SHEET	S1.1

STEEL STUD WALL SHEARWALL SCHEDULE

(ALL EXTERIOR WALLS ARE 2 UNLESS NOTED OTHERWISE)

NOTES:
1. PROVIDE FULL HEIGHT DOUBLE STUDS AT ENDS OF SHEARWALLS UNLESS NOTED OTHERWISE ON PLANS OR DETAILS.
2. FRAMING MEMBER SUPPORTING MATERIAL SHALL BE 20 GA. STEEL STUDS SPACED AT 24" ON CENTER MAXIMUM.
3. ANCHOR BOLTS TO FOUNDATION SHALL BE 10" LONG AND SHALL BE EMBEDDED 7" INTO CONCRETE. EXPANSION BOLTS OF EQUAL SIZE OR SHOT PINS MAY BE USED AT INTERIOR WALLS AWAY FROM EDGE OF SLAB OR SLAB STEP-DOWN).
4. A MINIMUM OF 2 ANCHOR BOLTS SHALL BE USED ON EACH BASE PLATE PIECE. PROVIDE 1 ANCHOR BOLT MINIMUM WITHIN 9" OF EACH END OF EACH PIECE.
5. PROVIDE CONTINUOUS 18 GA. TOP AND BOTTOM TRACK AT ALL SHEARWALLS AND EXTERIOR WALLS. UNLESS NOTED OTHERWISE, LAP SPLICE TOP TRACK A MINIMUM OF 2'-0" WITH #10 TEK SCREWS STAGGERED AT 2" ON CENTER (12 SCREWS TOTAL ALONG SPLICE JOINT).
6. BLOCK ALL PANEL EDGES WITH 20 GA. X 2 INCH RIBBON. PROVIDE EDGE ATTACHMENT FOR SHEATHING AT BLOCKED EDGES.

MARK	SHEATHING MATERIAL	EDGE NAILING	FIELD NAILING	BOTTOM PLATE ATTACHMENT
1 L=P.P.	½" GYPBOARD (BLOCKED)	#6 SCREWS AT 7" O.C.	#6 SCREWS AT 7" O.C.	CONCRETE: ½"ø A.B. AT 36" O.C. OR: HILTI DNI 32 SHOT PINS AT 10" O.C.
2 L=P.P.	½" PLYWOOD OR OSB (BLOCKED)	#8 FLAT HEAD SCREWS AT 6" O.C.	#8 FLAT HEAD SCREWS AT 12" O.C.	CONCRETE: ½"ø A.B. AT 24" O.C. OR: HILTI DNI 32 SHOT PINS AT 7" O.C.
3 L=P.P.	½" PLYWOOD OR OSB (BLOCKED)	#8 FLAT HEAD SCREWS AT 4" O.C.	#8 FLAT HEAD SCREWS AT 12" O.C.	CONCRETE: ½"ø A.B. AT 18" O.C. OR: HILTI DNI 32 SHOT PINS AT 5" O.C.
4 L=P.P.	½" PLYWOOD OR OSB (BLOCKED)	#8 FLAT HEAD SCREWS AT 3" O.C.	#8 FLAT HEAD SCREWS AT 12" O.C.	CONCRETE: ½"ø A.B. AT 12" O.C. OR: HILTI DNI 32 SHOT PINS AT 4" O.C.
5 L=P.P.	½" PLYWOOD OR OSB (BLOCKED)	#8 FLAT HEAD SCREWS AT 2" O.C.	#8 FLAT HEAD SCREWS AT 12" O.C.	CONCRETE: ½"ø A.B. AT 12" O.C. OR: HILTI DNI 32 SHOT PINS AT 4" O.C.

SHEARWALL HOLDOWN SCHEDULE

MARK	HOLDOWN	SHEARWALL END POST
1	SIMPSON MST37 STRAP	(2) STEEL STUDS
2	SIMPSON S/HDU4	(2) STEEL STUDS
3	SIMPSON S/HDU9	(2) STEEL STUDS
4	STEEL COLUMN	STEEL COLUMN W/(1) STUD

SHEARWALL HOLDOWN FASTENERS

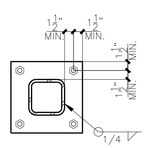
HOLDOWN	HOLDOWN CONNECTS TO STRUCTURE BELOW WITH:	HOLDOWN CONNECTS TO SHEARWALL ENDPOST WITH:
SIMPSON S/HDU4	CAST-IN-PLACE SIMPSON SSTB16 ANCHOR BOLT	(6) #14 TEKS SCREWS
SIMPSON S/HDU9	CAST-IN-PLACE SIMPSON SSTB28 ANCHOR BOLT	(18) #14 TEKS SCREWS
SIMPSON MST37	(34) #10 TEKS SCREWS	(34) #10 TEKS SCREWS
STEEL COLUMN	BASE CONNECTION PER (SC) SCHEDULE	ATTACH (1) STUD TO COLUMN WITH #12X1.25" TEKS SCREWS AT 16" O.C. EDGE SCREW SHEATHING TO STUD PER (SW) SCHEDULE.

WALL REINFORCING (W) SCHEDULE

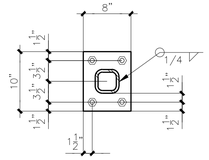
MARK	THICKNESS	REINFORCING	REMARKS
W1	12" CONCRETE	#5 AT 8" O.C. (EACH FACE)	---
W2	8" MASONRY	#5 AT 16" O.C. (CENTERED)	SOLID GROUT

STEEL COLUMN (SC) SCHEDULE

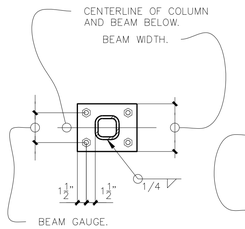
MARK	SIZE	BASE CONNECTION	BASE CONNECTION TYPE	REMARKS
SC1	HSS4X4X¼	10"X8"X½" THK STEEL PLATE W/ (4) ¾"ø X 12" J-BOLTS	TYPE B	---
SC2	4"ø STANDARD STEEL PIPE	9"X9"X½" THK "DOG-LEGGED" STEEL PLATE W/ (4) ¾"ø X 12" J-BOLTS	TYPE F	TOP OF WALL
SC3	HSS6X6X½	12" SQ. X ¾" THK STEEL PLATE W/ (4) ¾"ø X 12" J-BOLTS	TYPE A	STARTS AT FOOTING
SC4	HSS4X4X¼	½" THICK CAP PLATE W/ (2) ¾"ø A325 BOLTS	TYPE C	TOP OF STEEL BEAM
SC5	HSS6X6X½	½" THICK CAP PLATE W/ (2) ¾"ø A325 BOLTS	TYPE D	TOP OF STEEL BEAM
SC6	HSS5X5X¼	11"X11X½" THK "L" SHAPED STEEL PLATE W/ (4) ¾"ø X 12" J-BOLTS	TYPE E	TOP OF WALL
SC7	HSS6X6X½	12"X8"X⅜" THK STEEL PLATE W/(4) ⅜"ø X12"" J-BOLTS	TYPE G	STARTS AT BASEMENT FLOOR



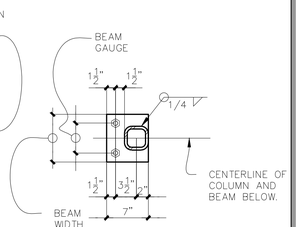
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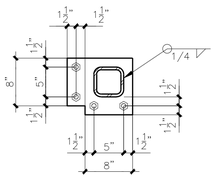
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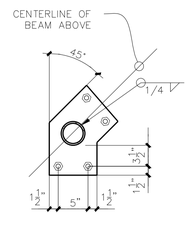
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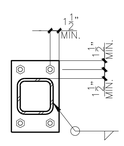
TYPE: D



TYPE: E



TYPE: F



TYPE:

FLOOR JOIST (FJ) SCHEDULE

MARK	JOIST	REMARKS
FJ1	12X2.5X14 GAUGE CEE STEEL JOIST AT 24" O.C.	---

ROOF JOIST (RJ) SCHEDULE

MARK	JOIST	REMARKS
RJ1	10X2.5X14 GAUGE ZEE PURLINS AT 5'-0" O.C.	USE 10X3X12GA ZEE PURLINS AT MECHANICAL UNITS. (DENOTED BY HEAVY LINE).

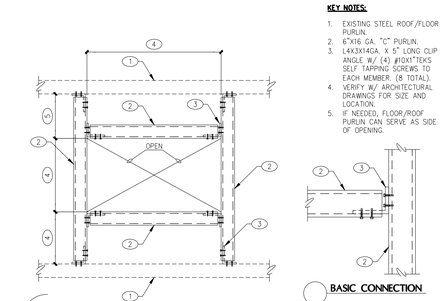
STEEL BEAM (SB) SCHEDULE

MARK	SIZE	CAMBER
SB1	W24X76	1¾"
SB2	W10X22	STANDARD
SB3	W27X94	1⅜"
SB4	W16X31	STANDARD
SB5	W18X40	STANDARD
SB6	W14X22	STANDARD
SB7	W24X55	STANDARD
SB8	W21X44	STANDARD
SB9	W8X21	STANDARD
SB10	W14X22	STANDARD
SB11	W21X44	STANDARD

LEDGER (L) SCHEDULE

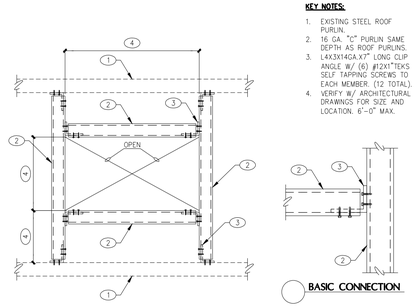
NOTES:
1. ALL LEDGERS SHALL HAVE A MINIMUM OF (2) WELD PLATES OR ANCHOR BOLTS AS NOTED BELOW.
2. WELD PLATES OR ANCHOR BOLTS SHALL BE LOCATED NOT LESS THAN 6" NOR MORE THAN 1'-4" FROM END OF LEDGER OR LEDGER SPLICE.

MARK	SIZE	CONNECTION
L1	12X2.5X16GA. CEE TRACK	(3) #12 TEKS SCREWS AT 16" O.C. (EACH STUD)
L2	12X2.5X16GA. CEE TRACK	(3) #12 TEKS SCREWS AT 32" O.C. (EVERY OTHER STUD)
L3	12X2.5X16GA. TRACK	W/ ¾"ØX6" ANCHOR BOLT OR EXPANSION ANCHOR AT 16" O.C.
L4	12"X2.5"X14GA. TRACK	W/ ¾"ØX4" ANCHOR BOLT OR EXPANSION ANCHOR AT 8" O.C.
L5	12"X2.5"X14GA. CEE	W/ ⅜"ØX6" ANCHOR BOLT OR EXPANSION ANCHOR AT 24" O.C.



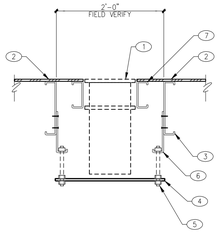
KEY NOTES:
1. EXISTING STEEL ROOF/FLOOR PURLIN.
2. 6"X16 GA. "C" PURLIN.
3. L4X3X14GA. X 5" LONG CLIP ANGLE W/ (4) #10X1"TEKS SELF TAPPING SCREWS TO EACH MEMBER. (8 TOTAL).
4. VERIFY W/ ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION.
5. IF NEEDED, FLOOR/ROOF PURLIN CAN SERVE AS SIDE OF OPENING.

T23 SMALL FRAMED OPENING IN STEEL PURLIN FRAMED ROOF
NO SCALE



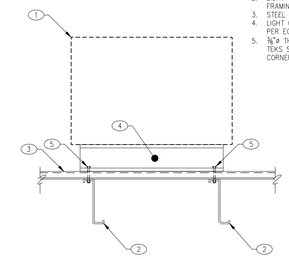
KEY NOTES:
1. EXISTING STEEL ROOF PURLIN.
2. 16 GA. "C" PURLIN SAME DEPTH AS ROOF PURLINS.
3. L4X3X14GA.X7" LONG CLIP ANGLE W/ (6) #10X1"TEKS SELF TAPPING SCREWS TO EACH MEMBER. (12 TOTAL).
4. VERIFY W/ ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION. 6'-0" MAX.

T20 FRAMED OPENING IN STEEL PURLIN FRAMED ROOF
NO SCALE



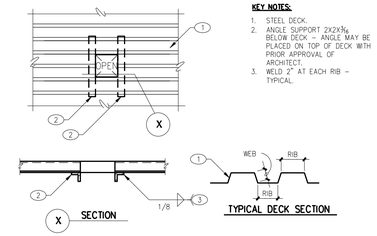
KEY NOTES:
1. PREFABRICATED GREASE TRAP.
2. PLYWOOD SHEATHING.
3. STEEL PURLINS PER PLAN. TURN PURLIN SO THAT BACK FACES GREASE TRAP.
4. STEEL PLATE; 25"X32"X⅜" THICK.
5. (4) ⅝"ø THREADED RODS W/ DOUBLE NUTS AT BOTTOM, ONE AT EACH CORNER.
6. RIPPED PURLIN; 4" LONG W/ (4) #10X1.25" TEKS SCREWS TO SIDE OF PURLIN. TYPICAL AT EACH THREADED ROD.
7. FRAMING FOR SMALL OPENING IN FLOOR USING DETAIL T23 AND 6"X16GA. PURLINS.

T24 GREASE TRAP AT STEEL FLOOR PURLINS
NO SCALE



KEY NOTES:
1. HVAC EQUIPMENT PER MECHANICAL PLANS.
2. LIGHT GAUGE STEEL PURLIN FRAMING.
3. STEEL DECK.
4. LIGHT GAUGE STEEL CURB PER EQUIPMENT MFR.
5. ⅜"ø THRU BOLT OR ¼"#X3" TEKS SCREWS AT EACH CORNER.

T21 HVAC EQUIPMENT AT STEEL ROOF PURLINS
NO SCALE



KEY NOTES:
1. STEEL DECK.
2. ANGLE SUPPORT 2X2X¼ BELOW DECK – ANGLE MAY BE PLACED ON TOP OF DECK WITH PRIOR APPROVAL OF ARCHITECT.
3. WELD 2" AT EACH RIB – TYPICAL.

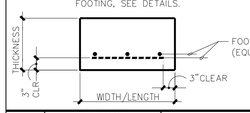
NOTE:
AN OPENING WHICH CUTS ONE WEB (4" MAX DIMENSION PERPENDICULAR TO RIBS), MAY BE CUT IN DECK WITHOUT ANY SPECIAL REINFORCING.

AN OPENING WHICH CUTS TWO WEBS (8" MAX DIMENSION PERPENDICULAR TO RIBS), WILL REQUIRE ANGLE SUPPORT SHOWN ABOVE.

ANY OPENING WHICH CUTS MORE THAN TWO WEBS, FRAME OPENING WITH TYPICAL ANGLE SUPPORT FRAME, SEE TYPICAL OPENING IN STEEL DECK DETAIL.

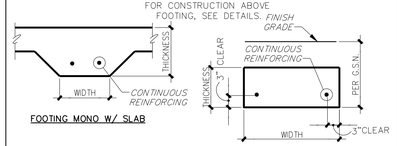
T22 TYPICAL SMALL OPENING IN STEEL DECK
02-SD04 NO SCALE

CONCRETE FOOTING (F) SCHEDULE



MARK	DIMENSIONS LENGTH	WIDTH	THICKNESS	FOOTING REINFORCING	REMARKS
F1	36"	36"	10"	(6) #4 EACH WAY	---
F2	48"	48"	10"	(4) #5 EACH WAY	---
F3	60"	60"	12"	(6) #5 EACH WAY	---
F4	72"	72"	14"	(6) #6 EACH WAY	---
F5	72"	36"	14"	(4) #5 LONG WAY (8) #5 SHORT WAY	---
F6	96"	36"	20"	(6) #6 LONG WAY (12) #6 SHORT WAY	---
F7	8'-2"	10'-8"	12"	#5 AT 12" O.C. EACH WAY	---

CONCRETE WALL FOOTING (WF) SCHEDULE



MARK	DIMENSIONS WIDTH	THICKNESS	FOOTING REINFORCING	FOOTING TYPE
WF1	24"	10"	(3) #4 CONTINUOUS	STRIP
WF2	12"	10"	(2) #4 CONTINUOUS	MONO W/ SLAB
WF3	16"	10"	(2) #4 CONTINUOUS	MONO W/ SLAB

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JOB NO.: 2017-0325 | PROJECT MANAGER: SL/RKF | CAD OPERATOR: MJS

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REVISIONS	BY
CITY COMMENTS 1.3.2019	RKF

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Registered Professional Engineering Consultant CERTIFICATE NO. 27341 RICHARD K. FROST 1.3.19 REGISTERED ARIZONA U.S.A.
EXPIRES 9/30/2020

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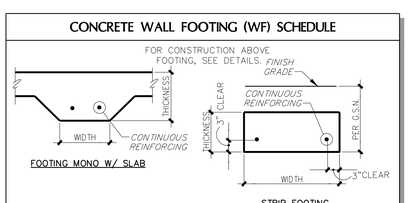
DRAWING: PLAN SCHEDULES

PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ, 86301

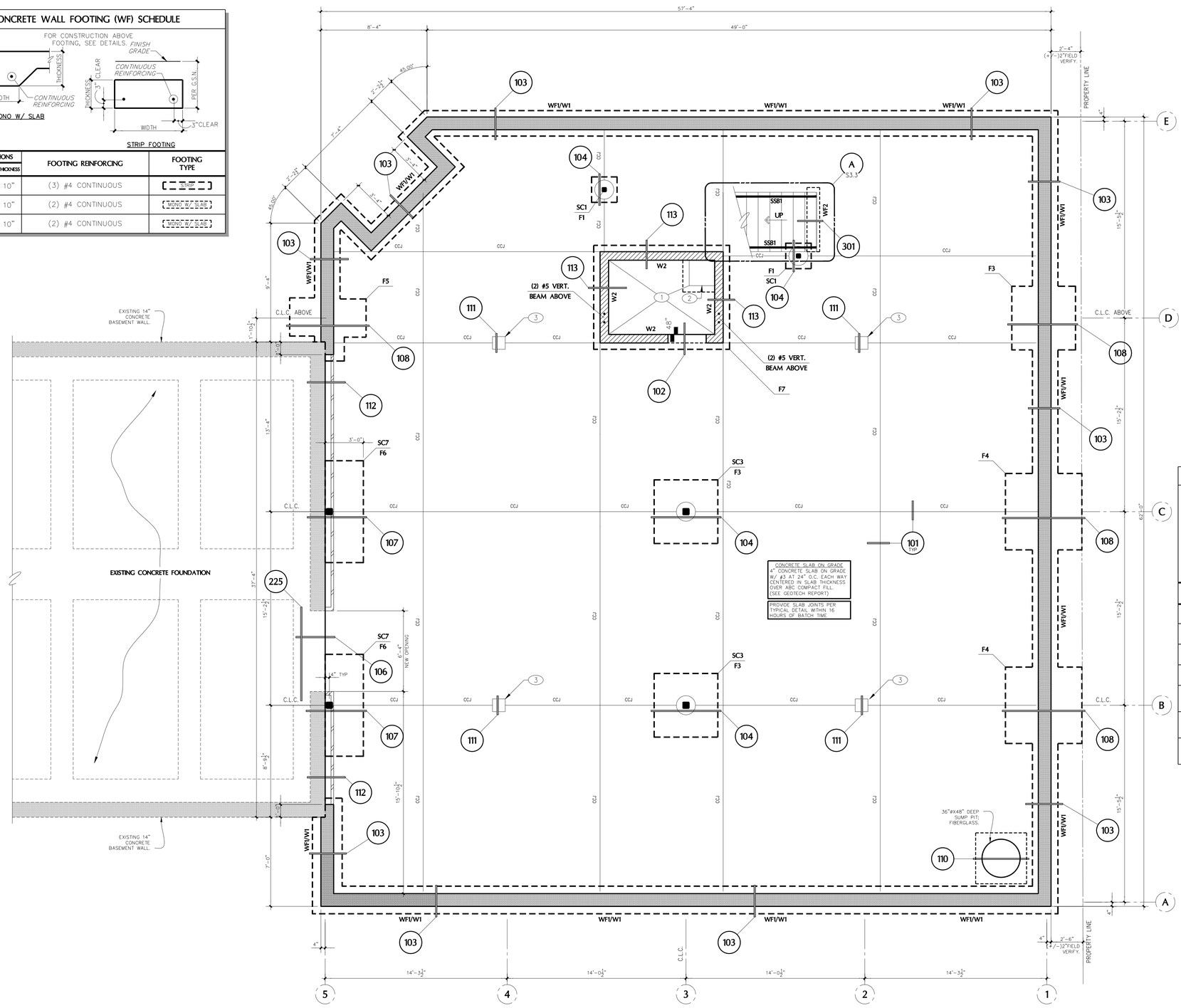
PROJECT: 109-02-035

DRAWN BY	MJS
CHECKED BY	SL / RKF
DATE	1/3/19
SCALE	AS NOTED
JOB NO.	2017-0325
SHEET	S1.2

CONCRETE WALL FOOTING (WF) SCHEDULE



MARK	DIMENSIONS		FOOTING REINFORCING	FOOTING TYPE
	WIDTH	THICKNESS		
WF1	24"	10"	(3) #4 CONTINUOUS	STRIP
WF2	12"	10"	(2) #4 CONTINUOUS	MONO W/ SLAB
WF3	16"	10"	(2) #4 CONTINUOUS	MONO W/ SLAB



FOUNDATION (BASEMENT) PLAN

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

WALL SCHEDULE

-HATCHING INDICATES STRUCTURAL ELEMENT CONTINUES TO THE NEXT LEVEL (VERIFY WITH ARCHITECTURAL DRAWINGS).
-SEE PLAN SCHEDULES, DETAILS, AND GENERAL STRUCTURAL NOTES FOR ADDITIONAL INFORMATION.

TYPICAL STEM WALL	8" CMU STEM WALL UP TO 4'-0" RETAINING #5 AT 16" O.C. VERTICAL #4 AT 48" O.C. HORIZONTAL CENTERED IN WALL
AS SEEN ON PLANS	**INDICATES–**
	EXISTING 14" CONCRETE WALL.
	12" CONCRETE WALL.
	3 5/8" STEEL STUD WALL: STUDS: 362S165-33 MILS AT 16" O.C. (1) TRIMMER/(1) KING STUD EACH JAMB U.N.O. BEAM/GIRDER POSTS: DOUBLE STUD (MIN. U.N.O.) SHEARWALL ENDPOSTS: DOUBLE STUD (MIN. U.N.O.)
	8" MASONRY (CONCRETE) WALL. MINIMUM REINFORCING UNLESS NOTED OTHERWISE: VERTICAL: #5 AT 8" O.C. HORIZONTAL: #4 AT 12" O.C. MAXIMUM.

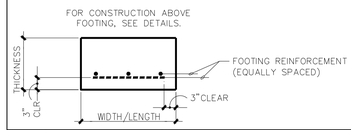
FOUNDATION PLAN NOTES

1. FOR LOCATION OF DETAILS SEE SHEET INDEX ON SHEET S1.
2. VERIFY ALL DIMENSIONS WITH ALL ARCHITECTURAL DRAWINGS.
3. ALL SCHEDULED MARK DESIGNATIONS MAY NOT NECESSARILY BE FOUND ON THIS PLAN. SCHEDULES ARE TYPICAL TO THIS PROJECT.
4. THE DEPTH OF FOOTING DIMENSION INDICATED IN THE G.S.N. IS A MINIMUM. FOUNDATION CONTRACTOR SHALL COORDINATE WITH THE SOILS REPORT AND OTHER TRADES TO INSURE THAT THESE MINIMUMS ARE SUFFICIENT FOR THE WORK. SEE TYPICAL DETAILS FOR ADDITIONAL REQUIREMENTS.
5. WF1, WF2, ETC. – AS SHOWN ON PLAN INDICATES A CONTINUOUS WALL FOOTING. SEE WALL FOOTING SCHEDULE FOR ADDITIONAL INFORMATION.
6. F1, F2, ETC. – AS SHOWN ON PLAN INDICATES A CONCRETE FOOTING. SEE FOOTING SCHEDULE FOR ADDITIONAL INFORMATION.
7. W1, W2, ETC. – AS SHOWN ON PLAN INDICATES WALL REINFORCING. SEE WALL REINFORCING SCHEDULE FOR ADDITIONAL INFORMATION.
8. SC1, SC2, ETC. – AS SHOWN ON PLAN INDICATES A STEEL COLUMN. SEE STEEL COLUMN SCHEDULE FOR ADDITIONAL INFORMATION. COLUMNS START AT THE LEVEL THEY ARE CALLED OUT ON.
9. (1) (2) – AS SHOWN ON PLAN INDICATES A SHEARWALL HOLDOWN. SEE HOLDOWN SCHEDULES AND DETAILS FOR ADDITIONAL INFORMATION.
10. CCJ – AS SHOWN ON PLAN INDICATES LOCATION OF EITHER A KEYED OR A SAW CUT CONTROL JOINT IN THE SLAB ON GRADE AT CONTRACTOR'S OPTION. SEE GENERAL STRUCTURAL NOTES AND DETAIL 101.
11. FOR SIDEWALK AND LANDING LOCATIONS, SEE ARCHITECTURAL DRAWINGS.

PLAN KEYNOTES

(1) ELEVATOR PIT.
(2) SUMP PIT.
(3) FLOOR DRAIN.

CONCRETE FOOTING (F) SCHEDULE



MARK	DIMENSIONS			FOOTING REINFORCING	REMARKS
	LENGTH	WIDTH	THICKNESS		
F1	36"	36"	10"	(6) #4 EACH WAY	---
F2	48"	48"	10"	(4) #5 EACH WAY	---
F3	60"	60"	12"	(6) #5 EACH WAY	---
F4	72"	72"	14"	(6) #6 EACH WAY	---
F5	72"	36"	14"	(4) #5 LONG WAY (8) #5 SHORT WAY	---
F6	96"	36"	20"	(6) #6 LONG WAY (12) #6 SHORT WAY	---
F7	8'-2"	10'-8"	12"	#5 AT 12" O.C. EACH WAY	---

WALL REINFORCING (W) SCHEDULE

MARK	THICKNESS	REINFORCING	REMARKS
W1	12" CONCRETE	#5 AT 8" O.C. (EACH FACE)	---
W2	8" MASONRY	#5 AT 16" O.C. (CENTERED)	SOLID GROUT

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JOB NO.: 2017-0325 | PROJECT MANAGER: SL/RKF | CAD OPERATOR: MJS

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REVISIONS	BY

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Registered Professional Engineering Technician
CERTIFICATE NO. 27341
RICHARD K. FROST
DATE SIGNED 1.3.19
ARIZONA U.S.A.
EXPIRES 9/30/2020

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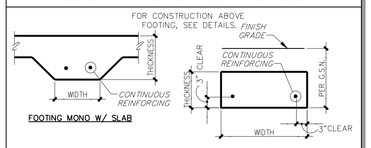
DRAWING: FOUNDATION (BASEMENT) PLAN

PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ, 86301

PROJECT: 109-02-035

DRAWN BY	MJS / ASF
CHECKED BY	SL / RKF
DATE	1/3/19
SCALE	AS NOTED
JOB NO.	2017-0325
SHEET	S2

CONCRETE WALL FOOTING (WF) SCHEDULE



MARK	DIMENSIONS WIDTH	DIMENSIONS THICKNESS	FOOTING REINFORCING	FOOTING TYPE
WF1	24"	10"	(3) #4 CONTINUOUS	STRIP
WF2	12"	10"	(2) #4 CONTINUOUS	MONO W/ SLAB
WF3	16"	10"	(2) #4 CONTINUOUS	MONO W/ SLAB

PLAN KEYNOTES

1. CONCRETE WALL STEPS DOWN TO FINISH FLOOR.
2. HEADER PER TYPICAL DETAIL T12.
3. PREFAB GREASE TRAP. PROVIDE BLOCKING/SUPPORT PER DETAILS T23/T24.

WALL SCHEDULE

-HATCHING INDICATES STRUCTURAL ELEMENT CONTINUES TO THE NEXT LEVEL (VERIFY WITH ARCHITECTURAL DRAWINGS).
-SEE PLAN SCHEDULES, DETAILS, AND GENERAL STRUCTURAL NOTES FOR ADDITIONAL INFORMATION.

AS SEEN ON PLANS	INDICATES-
	8" STEEL STUD WALL STUDS: 800S165-54 MILS AT 16" O.C. (1) TRIMMER/(1) KING STUD EACH JAMB U.N.O. BEAM/GIRDER POSTS: DOUBLE STUD (MIN. U.N.O.) SHEARWALL ENDPOSTS: DOUBLE STUD (MIN. U.N.O.)
5 4'-0"	SHEARWALL. SEE SHEARWALL SCHEDULE FOR WALL SHEATHING AND NAILING.
	8" MASONRY (CMU) WALL. MINIMUM REINFORCING UNLESS NOTED OTHERWISE: VERTICAL: #4 AT 16" O.C. HORIZONTAL: #4 AT 48" O.C. MAXIMUM.

FLOOR FRAMING NOTES

1. FOR LOCATION OF DETAILS SEE SHEET INDEX ON SHEET S1.
2. VERIFY ALL DIMENSIONS WITH ALL ARCHITECTURAL DRAWINGS.
3. ALL SCHEDULED MARK DESIGNATIONS MAY NOT NECESSARILY BE FOUND ON THIS PLAN. SCHEDULES ARE TYPICAL TO THIS PROJECT.
4. SC1, SC2, ETC. – AS SHOWN ON PLAN INDICATES A STEEL COLUMN. SEE STEEL COLUMN SCHEDULE FOR ADDITIONAL INFORMATION. COLUMNS START AT THE LEVEL THEY ARE CALLED OUT ON.
5. SB1, SB2, ETC. – AS SHOWN ON PLAN INDICATES A STEEL BEAM. SEE STEEL BEAM SCHEDULE FOR ADDITIONAL INFORMATION.
6. FJ1, FJ2, ETC. – AS SHOWN ON PLAN INDICATES FLOOR JOISTS. SEE FLOOR JOIST SCHEDULE FOR ADDITIONAL INFORMATION.
7. L1, L2, ETC. – AS SHOWN ON PLAN INDICATES A LEDGER. SEE LEDGER SCHEDULE FOR ADDITIONAL INFORMATION.
8. (1) (2) – AS SHOWN ON PLAN INDICATES A SHEARWALL HOLDOWN. SEE HOLDOWN SCHEDULES AND DETAILS FOR ADDITIONAL INFORMATION.
9. FOR CLARITY, DETAILS MAY SHOW ONLY ONE SIDE OF FRAMING CONDITION.

STEEL BEAM (SB) SCHEDULE

MARK	SIZE	CAMBER
SB1	W24X76	1 3/4"
SB2	W10X22	STANDARD
SB3	W27X94	1 3/8"
SB4	W16X31	STANDARD
SB5	W18X40	STANDARD
SB6	W14X22	STANDARD
SB7	W24X55	STANDARD
SB8	W21X44	STANDARD
SB9	W8X21	STANDARD
SB10	W14X22	STANDARD
SB11	W21X44	STANDARD

FLOOR JOIST (FJ) SCHEDULE

MARK	JOIST	REMARKS
FJ1	12X2.5X14 GAUGE CEE STEEL JOIST AT 24" O.C.	---

LEDGER (L) SCHEDULE

NOTES:
1. ALL LEDGERS SHALL HAVE A MINIMUM OF (2) WELD PLATES OR ANCHOR BOLTS AS NOTED BELOW.
2. WELD PLATES OR ANCHOR BOLTS SHALL BE LOCATED NOT LESS THAN 6" NOR MORE THAN 1'-4" FROM END OF LEDGER OR LEDGER SPLICE.

MARK	SIZE	CONNECTION
L1	12X2.5X16GA. CEE TRACK	(3) #12 TEKS SCREWS AT 16" O.C. (EACH STUD)
L2	12X2.5X16GA. CEE TRACK	(3) #12 TEKS SCREWS AT 32" O.C. (EVERY OTHER STUD)
L3	12X2.5X16GA. TRACK	W/ ¾"ØX6" ANCHOR BOLT OR EXPANSION ANCHOR AT 16" O.C.
L4	12"X2.5"X14GA. TRACK	W/ ¾"ØX4" ANCHOR BOLT OR EXPANSION ANCHOR AT 8" O.C.
L5	12"X2.5"X14GA. CEE	W/ ¾"ØX6" ANCHOR BOLT OR EXPANSION ANCHOR AT 24" O.C.

STEEL STAIR BEAM (SSB) SCHEDULE

(REF. SHEET S3.3 FOR STAIR FRAMING)

1. STAIRS ARE DESIGNED FOR 25 PSF SELF WEIGHT PLUS A LIVE LOAD EQUAL TO 100 PSF. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PRIOR TO FABRICATION.
2. LANDING PANS SHALL BE 12 GAGE MINIMUM. CONCRETE FILL SHALL BE REINFORCED WITH 6X6 W1.4XW1.4 W.W.F.
3. STAIR PAN CONFIGURATIONS, SEE ARCHITECTURAL DRAWINGS.

MARK	SIZE	REMARKS
SSB1	MC12X10.6	---
SSB2	C8X11.5	---
SSB3	L3½X3½X¼ ANGLE AT 16" O.C.	---

CONCRETE SLAB ON GRADE
4" CONCRETE SLAB ON GRADE W/ #3 AT 24" O.C. EACH WAY CENTERED IN SLAB THICKNESS OVER COMPACTED FILL. (SEE GEOTECH REPORT)

EXISTING STRUCTURE

TYPICAL FLOOR SHEATHING
1 3/8" T&G PLYWOOD SHEATHING. ATTACH PER G.S.N.

PROPERTY LINE

FIRST FLOOR FRAMING/FOUNDATION PLAN

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

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REVISIONS	BY
CITY COMMENTS 1.3.2019	RKF

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Registered Professional Engineer (Structural) CERTIFICATE NO. 27341 RICHARD K. FROST DATE SIGNED 1.3.19 ARIZONA U.S.A.

EXPIRES 9/30/2020

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ARCHITECTURE & PLANNING

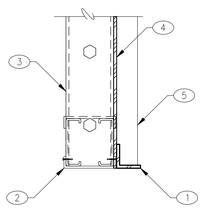
DRAWING: FIRST FLOOR FRAMING/FOUNDATION PLAN

PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ, 86301

PROJECT: 109-02-035

DRAWN BY	MJS
CHECKED BY	SL/RKF
DATE	1/3/19
SCALE	AS NOTED
JOB NO.	2017-0325
SHEET	S3

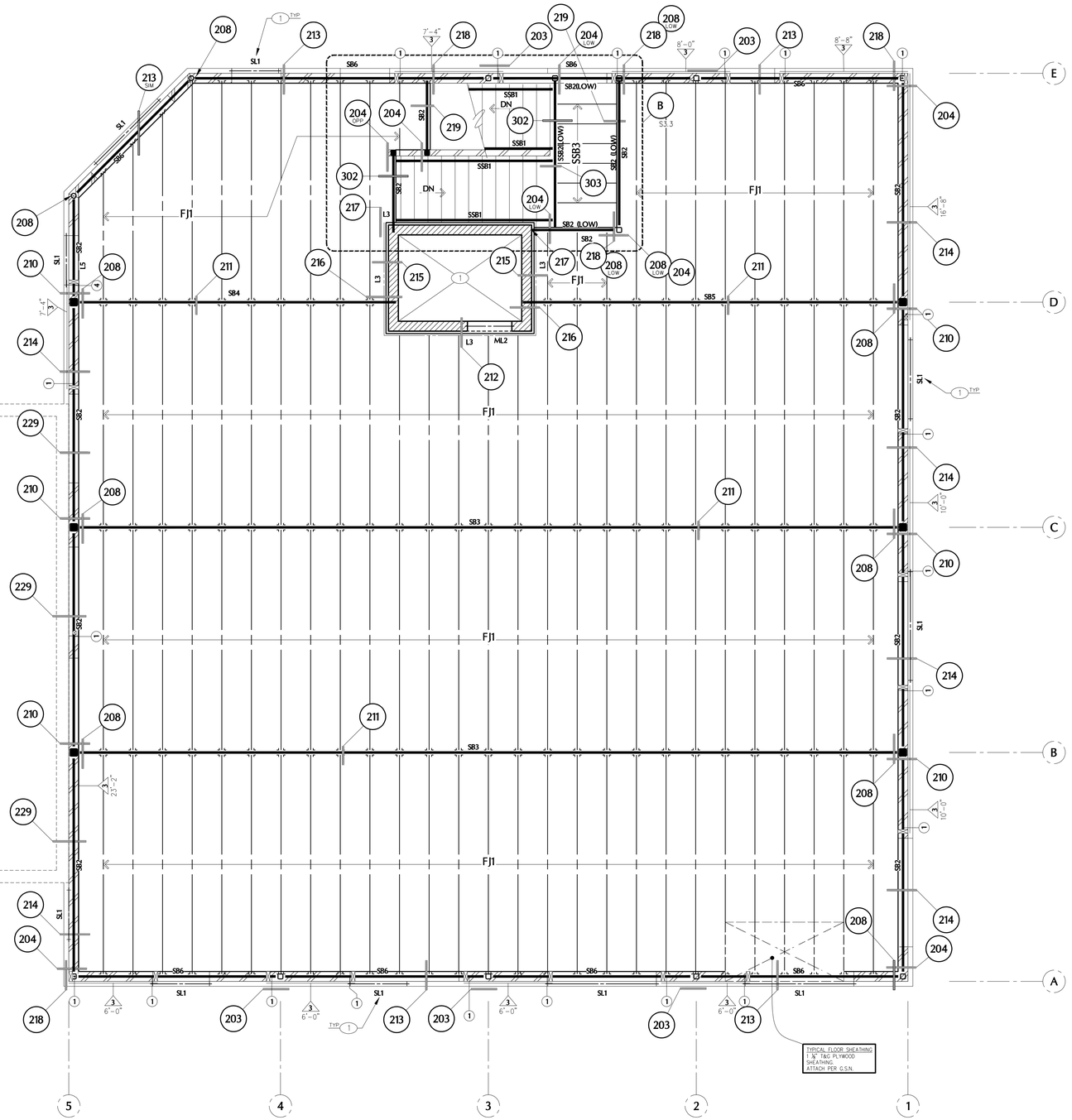
STEEL LINTEL (SL) SCHEDULE



KEY NOTES:

1. STEEL LINTEL ANGLE OVER OPENING.
2. LIGHT GAUGE STEEL HEADER PER T12 AT 2ND FLOOR WALLS ONLY. SINGLE TRACK AT 1ST FLOOR.
3. STEEL STUD WALL.
4. WALL SHEATHING AS OCCURS.
5. BRICK VENEER PER ARCHITECTURAL DRAWINGS.

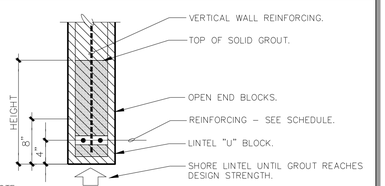
MARK	SIZE	REMARKS
SL1	L3½x3½x¼	---



SECOND FLOOR FRAMING PLAN

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

MASONRY LINTEL (ML) SCHEDULE



NOTE:
1. VERTICAL REINFORCING TO MATCH AND LAP WALL REINFORCING PER G.S.N.
2. EXTEND GROUT, OPEN END MASONRY UNITS AND REINFORCING 2'-0" PAST EACH JAMB. USE CORNER BARS WHERE 2'-0" CANNOT BE ACHIEVED.

MARK	HEIGHT	REINFORCING
ML1	24"	(2) #4 HORIZONTAL
ML2	24"	(2) #5 HORIZONTAL

WALL SCHEDULE

-HATCHING INDICATES STRUCTURAL ELEMENT CONTINUES TO THE NEXT LEVEL (VERIFY WITH ARCHITECTURAL DRAWINGS).
-SEE PLAN SCHEDULES, DETAILS, AND GENERAL STRUCTURAL NOTES FOR ADDITIONAL INFORMATION.

AS SEEN ON PLANS	INDICATES-
	8" STEEL STUD WALL. STUDS: 800S165-54 MILS AT 16" O.C. (1) TRIMMER/(2) KING STUD EACH JAMB U.N.O. BEAM/GIRDER POSTS: DOUBLE STUD (MIN. U.N.O.) SHEARWALL ENDPOSTS: DOUBLE STUD (MIN. U.N.O.)
5 4'-0"	SHEARWALL. SEE SHEARWALL SCHEDULE FOR WALL SHEATHING AND NAILING.

FLOOR FRAMING NOTES

1. FOR LOCATION OF DETAILS SEE SHEET INDEX ON SHEET S1.
2. VERIFY ALL DIMENSIONS WITH ALL ARCHITECTURAL DRAWINGS.
3. ALL SCHEDULED MARK DESIGNATIONS MAY NOT NECESSARILY BE FOUND ON THIS PLAN. SCHEDULES ARE TYPICAL TO THIS PROJECT.
4. SB1, SB2, ETC. – AS SHOWN ON PLAN INDICATES A STEEL BEAM. SEE STEEL BEAM SCHEDULE FOR ADDITIONAL INFORMATION.
5. FJ1, FJ2, ETC. – AS SHOWN ON PLAN INDICATES FLOOR JOISTS. SEE FLOOR JOIST SCHEDULE FOR ADDITIONAL INFORMATION.
6. L1, L2, ETC. – AS SHOWN ON PLAN INDICATES A LEDGER. SEE LEDGER SCHEDULE FOR ADDITIONAL INFORMATION.
7. (1) (2) – AS SHOWN ON PLAN INDICATES A SHEARWALL HOLDOWN. SEE HOLDOWN SCHEDULES AND DETAILS FOR ADDITIONAL INFORMATION.
8. FOR CLARITY, DETAILS MAY SHOW ONLY ONE SIDE OF FRAMING CONDITION.
9. ML1, ML2, ETC. – AS SHOWN ON PLAN INDICATES A MASONRY LINTEL. SEE MASONRY LINTEL SCHEDULE FOR ADDITIONAL INFORMATION.

PLAN KEYNOTES

(1) TYPICAL AT ALL NON-BEARING OPENINGS IN STEEL STUD WALL – SEE TYPICAL DETAIL T12/SL1 SCHEDULE.

STEEL BEAM (SB) SCHEDULE

MARK	SIZE	CAMBER
SB1	W24X76	1 ¾"
SB2	W10X22	STANDARD
SB3	W27X94	1 ⅜"
SB4	W16X31	STANDARD
SB5	W18X40	STANDARD
SB6	W14X22	STANDARD
SB7	W24X55	STANDARD
SB8	W21X44	STANDARD
SB9	W8X21	STANDARD
SB10	W14X22	STANDARD
SB11	W21X44	STANDARD

LEDGER (L) SCHEDULE

NOTES:
1. ALL LEDGERS SHALL HAVE A MINIMUM OF (2) WELD PLATES OR ANCHOR BOLTS AS NOTED BELOW.
2. WELD PLATES OR ANCHOR BOLTS SHALL BE LOCATED NOT LESS THAN 6" NOR MORE THAN 1'-4" FROM END OF LEDGER OR LEDGER SPLICE.

MARK	SIZE	CONNECTION
L1	12X2.5X16GA. CEE TRACK	(3) #12 TEKS SCREWS AT 16" O.C. (EACH STUD)
L2	12X2.5X16GA. CEE TRACK	(3) #12 TEKS SCREWS AT 32" O.C. (EVERY OTHER STUD)
L3	12X2.5X16GA. TRACK	W/ ¾"ØX6" ANCHOR BOLT OR EXPANSION ANCHOR AT 16" O.C.
L4	12"X2.5"X14GA. TRACK	W/ ¾"ØX4" ANCHOR BOLT OR EXPANSION ANCHOR AT 8" O.C.
L5	12"X2.5"X14GA. CEE	W/ ¾"ØX6" ANCHOR BOLT OR EXPANSION ANCHOR AT 24" O.C.

FLOOR JOIST (FJ) SCHEDULE

MARK	JOIST	REMARKS
FJ1	12X2.5X14 GAUGE CEE STEEL JOIST AT 24" O.C.	---

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JOB NO.: 2017-0325 | PROJECT MANAGER: SL/RKF | CAD OPERATOR: MJS

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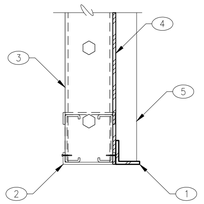
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ARCHITECTURE & PLANNING

DRAWING: SECOND FLOOR FRAMING PLAN
PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ, 86301
PROJECT: 109-02-035

DRAWN BY	MJS
CHECKED BY	SL/RKF
DATE	1/3/19
SCALE	AS NOTED
JOB NO.	2017-0325
SHEET	S3.1

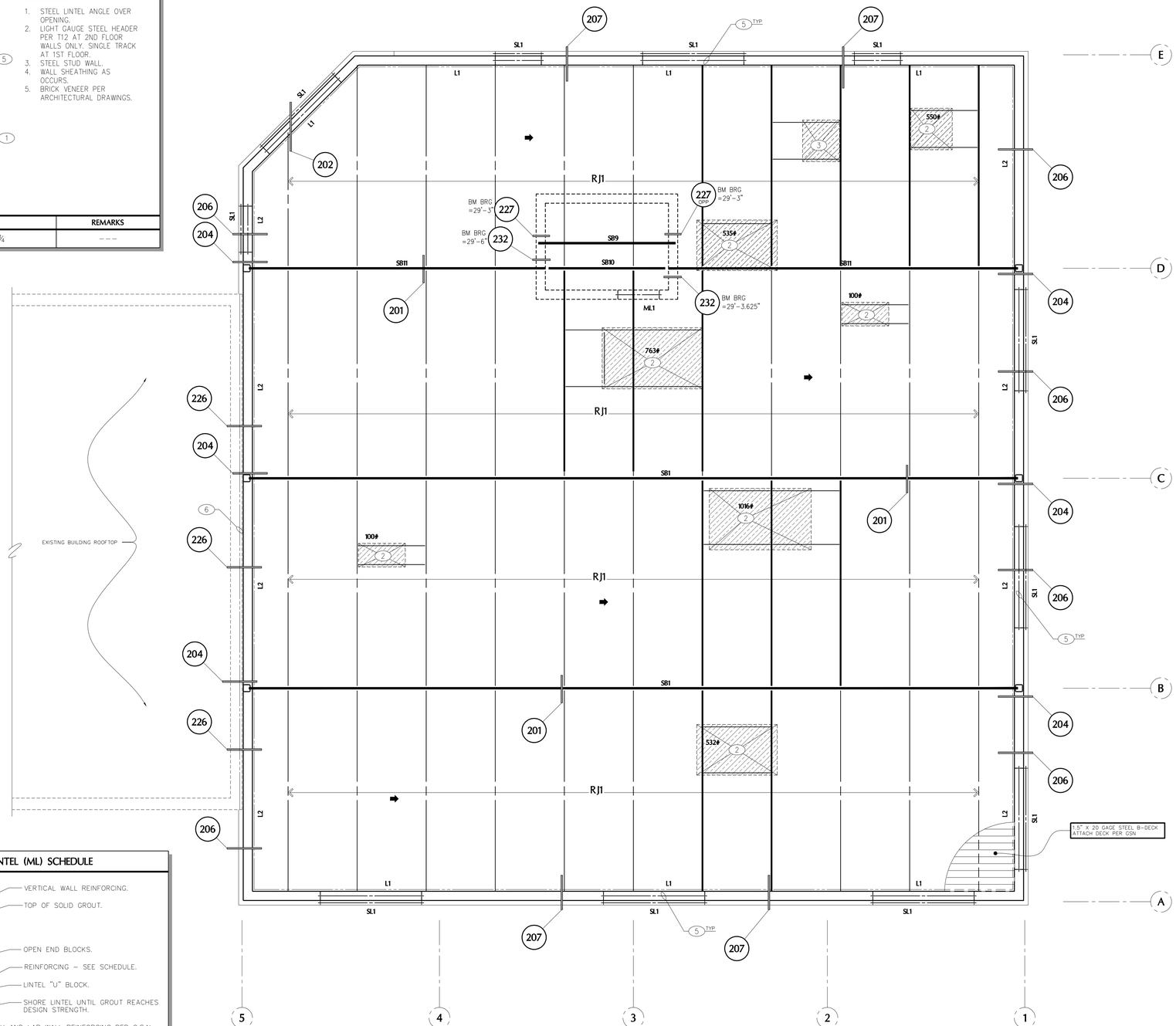
STEEL LINTEL (SL) SCHEDULE



KEY NOTES:

1. STEEL LINTEL ANGLE OVER OPENING.
2. LIGHT GAUGE STEEL HEADER PER T12 AT 2ND FLOOR WALLS ONLY. SINGLE TRACK AT 1ST FLOOR.
3. STEEL STUD WALL.
4. WALL SHEATHING AS OCCURS.
5. BRICK VENEER PER ARCHITECTURAL DRAWINGS.

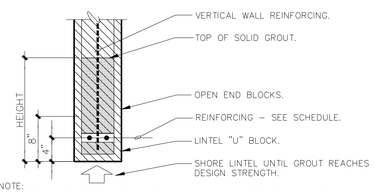
MARK	SIZE	REMARKS
SL1	L 3½X 3½X¼	– – –



ROOF FRAMING PLAN

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

MASONRY LINTEL (ML) SCHEDULE



NOTE:
1. VERTICAL REINFORCING TO MATCH AND LAP WALL REINFORCING PER G.S.N.
2. EXTEND GROUT, OPEN END MASONRY UNITS AND REINFORCING 2'-0" PAST EACH JAMB. USE CORNER BARS WHERE 2'-0" CANNOT BE ACHIEVED.

MARK	HEIGHT	REINFORCING
ML1	24"	(2) #4 HORIZONTAL
ML2	24"	(2) #5 HORIZONTAL

WALL SCHEDULE

NOTE:	SEE PLAN SCHEDULES, DETAILS AND GENERAL STRUCTURAL NOTES FOR ADDITIONAL INFORMATION.
AS SEEN ON PLANS	INDICATES–
	8" STEEL STUD PARAPET WALL.

ROOF FRAMING NOTES

1. FOR LOCATION OF DETAILS SEE SHEET INDEX ON SHEET S1.
2. VERIFY ALL DIMENSIONS WITH ALL ARCHITECTURAL DRAWINGS.
3. ALL SCHEDULED MARK DESIGNATIONS MAY NOT NECESSARILY BE FOUND ON THIS PLAN. SCHEDULES ARE TYPICAL TO THIS PROJECT.
4. SB1, SB2, ETC. – AS SHOWN ON PLAN INDICATES A STEEL BEAM. SEE STEEL BEAM SCHEDULE FOR ADDITIONAL INFORMATION.
5. RJ1, RJ2, ETC. – AS SHOWN ON PLAN INDICATES ROOF JOISTS. SEE ROOF JOIST SCHEDULE FOR ADDITIONAL INFORMATION.
6. L1, L2, ETC. – AS SHOWN ON PLAN INDICATES A LEDGER. SEE LEDGER SCHEDULE FOR ADDITIONAL INFORMATION.
7. FOR CLARITY, DETAILS MAY SHOW ONLY ONE SIDE OF FRAMING CONDITION.
8. FOR CLARITY, ALL ROOF OPENINGS MAY NOT BE SHOWN ON THE ROOF FRAMING PLAN. FOR EXACT SIZE, NUMBER AND LOCATION OF OPENINGS, SEE ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS. FOR FRAMING AT OPENINGS, SEE TYPICAL DETAILS.
9. VERIFY EXACT SIZE AND WEIGHT OF EQUIPMENT ON ROOF WITH MECHANICAL CONTRACTOR.

PLAN KEYNOTES

1. TOP OF ELEVATOR SHAFT TERMINATES BELOW ROOF LINE.
2. MECHANICAL UNIT SUPPORT FRAMING PER TYPICAL DETAIL T20.
3. ROOF ACCESS HATCH SUPPORT FRAMING PER TYPICAL DETAIL T20.
4. STEEL LEDGER PER DETAIL 226.
5. TYPICAL AT ALL NON-BEARING OPENINGS IN STEEL STUD WALL – SEE TYPICAL DETAIL T12.
5. STEEL ANGLE LEDGER SUPPORT FOR BRICK VENEER. SEE DETAIL 226.

ROOF JOIST (RJ) SCHEDULE

MARK	JOIST	REMARKS
RJ1	10X2.5X14 GAUGE ZEE PURLINS AT 5'–0" O.C.	USE 10X3X12GA. ZEE PURLINS AT MECHANICAL UNITS. (DENOTED BY HEAVY LINE)

LEDGER (L) SCHEDULE

NOTES:
1. ALL LEDGERS SHALL HAVE A MINIMUM OF (2) WELD PLATES OR ANCHOR BOLTS AS NOTED BELOW.
2. WELD PLATES OR ANCHOR BOLTS SHALL BE LOCATED NOT LESS THAN 6" NOR MORE THAN 1'–4" FROM END OF LEDGER OR LEDGER SPLICE.

MARK	SIZE	CONNECTION
L1	12X2.5X16GA. CEE TRACK	(3) #12 TEKS SCREWS AT 16" O.C. (EACH STUD)
L2	12X2.5X16GA. CEE TRACK	(3) #12 TEKS SCREWS AT 32" O.C. (EVERY OTHER STUD)
L3	12X2.5X16GA. TRACK	W/ ¾"ØX6" ANCHOR BOLT OR EXPANSION ANCHOR AT 16" O.C.
L4	12"X2.5"X14GA. TRACK	W/ ¾"ØX4" ANCHOR BOLT OR EXPANSION ANCHOR AT 8" O.C.
L5	12"X2.5"X14GA. CEE	W/ ¾"ØX6" ANCHOR BOLT OR EXPANSION ANCHOR AT 24" O.C.

STEEL BEAM (SB) SCHEDULE

MARK	SIZE	CAMBER
SB1	W24X76	1¾"
SB2	W10X22	STANDARD
SB3	W27X94	1⅜"
SB4	W16X31	STANDARD
SB5	W18X40	STANDARD
SB6	W14X22	STANDARD
SB7	W24X55	STANDARD
SB8	W21X44	STANDARD
SB9	W8X21	STANDARD
SB10	W14X22	STANDARD
SB11	W21X44	STANDARD

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Registered Professional Engineer — Structural — CERTIFICATE NO. 27341 — RICHARD K. FROST — DATE SIGNED 1.3.19 — ARIZONA U.S.A.

EXPIRES 9/30/2020

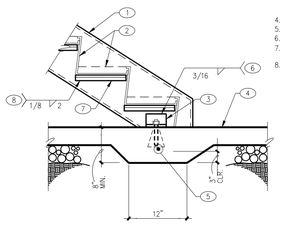
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ARCHITECTURE & PLANNING

DRAWING: ROOF FRAMING PLAN

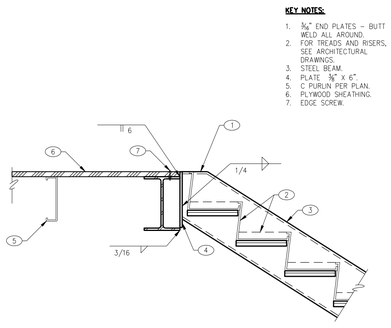
PROJECT: Shariot Hall Education Center Addition
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PROJECT: 109-02-035

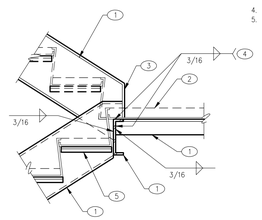
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DATE	1/3/19
SCALE	AS NOTED
JOB NO.	2017-0325
SHEET	S3.2



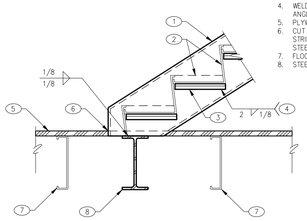
301 STEEL STAIR STRINGER AT SLAB ON GRADE
STR0114 NO SCALE



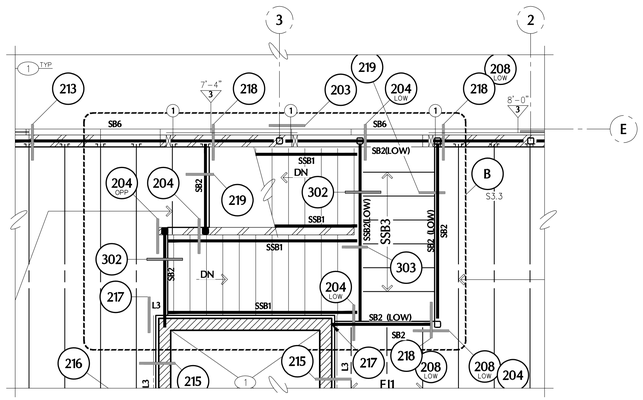
302 STEEL STAIR BEAM AT STEEL BEAM
STR0104 NO SCALE



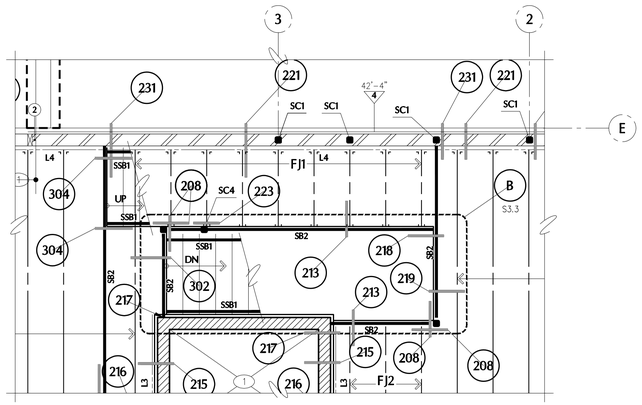
303 STEEL STAIR BEAM CONNECTION AT LANDING
STR0103 NO SCALE



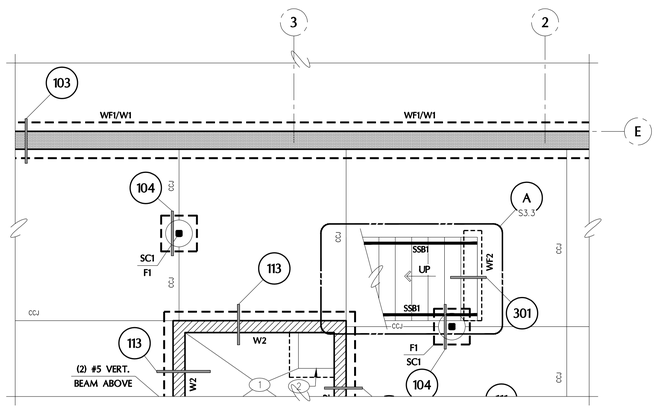
304 STEEL STAIR STRINGER AT STEEL BEAM
STR0114 NO SCALE



C STAIR FRAMING AT 2ND FLOOR LEVEL
SCALE: 1/4" = 1'-0"



B STAIR FRAMING AT 1ST FLOOR LEVEL
SCALE: 1/4" = 1'-0"



A STAIR FOUNDATION PLAN
SCALE: 1/4" = 1'-0"

WALL SCHEDULE

- HATCHING INDICATES STRUCTURAL ELEMENT CONTINUES TO THE NEXT LEVEL (VERIFY WITH ARCHITECTURAL DRAWINGS).
- SEE PLAN SCHEDULES, DETAILS, AND GENERAL STRUCTURAL NOTES FOR ADDITIONAL INFORMATION.

TYPICAL STEM WALL	8" CMU STEM WALL UP TO 4'-0" RETAINING #4 AT 48" O.C. VERTICAL, #4 AT 48" O.C. HORIZONTAL CENTERED IN WALL
AS SEEN ON PLANS	**INDICATES–**
	8" STEEL STUD WALL. STUDS: 800S165–33 MILS AT 16" O.C. (1) TRIMMER/(1) KING STUD EACH JAMB U.N.O. BEAM/GIRDER POSTS: DOUBLE STUD (MIN. U.N.O.) SHEARWALL ENDPOSTS: DOUBLE STUD (MIN. U.N.O.)
5 4'–0"	SHEARWALL. SEE SHEARWALL SCHEDULE FOR WALL SHEATHING AND NAILING.
	12" MASONRY (CONCRETE) WALL. MINIMUM REINFORCING UNLESS NOTED OTHERWISE: VERTICAL: #5 AT 8" O.C. HORIZONTAL: #4 AT 12" O.C. MAXIMUM.

FOUNDATION PLAN NOTES

1. FOR LOCATION OF DETAILS SEE SHEET INDEX ON SHEET S1.
2. VERIFY ALL DIMENSIONS WITH ALL ARCHITECTURAL DRAWINGS.
3. ALL SCHEDULED MARK DESIGNATIONS MAY NOT NECESSARILY BE FOUND ON THIS PLAN. SCHEDULES ARE TYPICAL TO THIS PROJECT.
4. THE DEPTH OF FOOTING DIMENSION INDICATED IN THE G.S.N. IS A MINIMUM. FOUNDATION CONTRACTOR SHALL COORDINATE WITH THE SOILS REPORT AND OTHER TRADES TO INSURE THAT THESE MINIMUMS ARE SUFFICIENT FOR THE WORK. SEE TYPICAL DETAILS FOR ADDITIONAL REQUIREMENTS.
5. WF1, WF2, ETC. – AS SHOWN ON PLAN INDICATES A CONTINUOUS WALL FOOTING. SEE WALL FOOTING SCHEDULE FOR ADDITIONAL INFORMATION.

   SSB1, SSB2, ETC. – AS SHOWN ON PLAN INDICATES A STEEL STAIR BEAM. SEE STEEL STAIR BEAM SCHEDULE FOR ADDITIONAL INFORMATION.

PLAN KEYNOTES

1. ELEVATOR PIT PER ARCHITECTURAL DRAWINGS.
2. SUMP/FLOOR DRAINS.

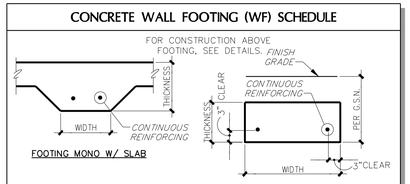
STEEL STAIR BEAM (SSB) SCHEDULE

(REF. SHEET S3.3 FOR STAIR FRAMING)

1. STAIRS ARE DESIGNED FOR 25 PSF SELF WEIGHT PLUS A LIVE LOAD EQUAL TO 100 PSF. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PRIOR TO FABRICATION.
2. LANDING PANS SHALL BE 12 GAGE MINIMUM. CONCRETE FILL SHALL BE REINFORCED WITH 6X6 W1.4XW1.4 W.W.F.
3. STAIR PAN CONFIGURATIONS, SEE ARCHITECTURAL DRAWINGS.

MARK	SIZE	REMARKS
SSB1	MC12X10.6	---
SSB2	C8X11.5	---
SSB3	L3½X3½X¼ ANGLE AT 16" O.C.	---

CONCRETE WALL FOOTING (WF) SCHEDULE



MARK	DIMENSIONS WIDTH	DIMENSIONS THICKNESS	FOOTING REINFORCING	FOOTING TYPE
WF1	24"	10"	(3) #4 CONTINUOUS	STRIP
WF2	12"	10"	(2) #4 CONTINUOUS	MONO W/ SLAB
WF3	16"	10"	(2) #4 CONTINUOUS	MONO W/ SLAB

FLOOR JOIST (FJ) SCHEDULE

MARK	JOIST	REMARKS
FJ1	12X2.5X14 GAUGE CEE STEEL JOIST AT 24" O.C.	---

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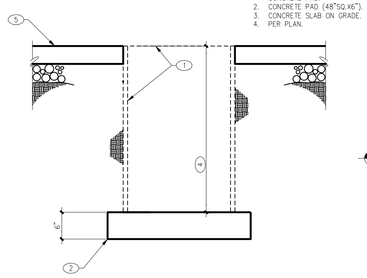
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ARCHITECTURE & PLANNING

DRAWING: STAIR PLANS AND 300-SERIES DETAILS

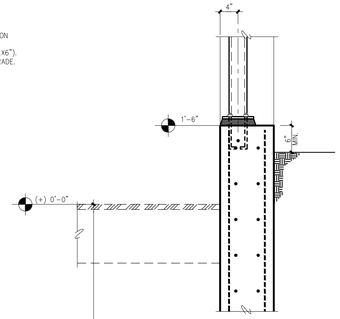
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Prescott, AZ, 86301

PROJECT: 109-02-035

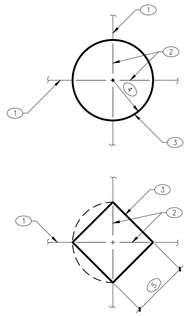
DRAWN BY	MJS
CHECKED BY	SL/RKF
DATE	1/3/19
SCALE	AS NOTED
JOB NO.	2017-0325
SHEET	S3.3



110 PRE-FAB FIBERGLASS SUMP PIT AT CONCRETE SLAB ON GRADE
NO SCALE



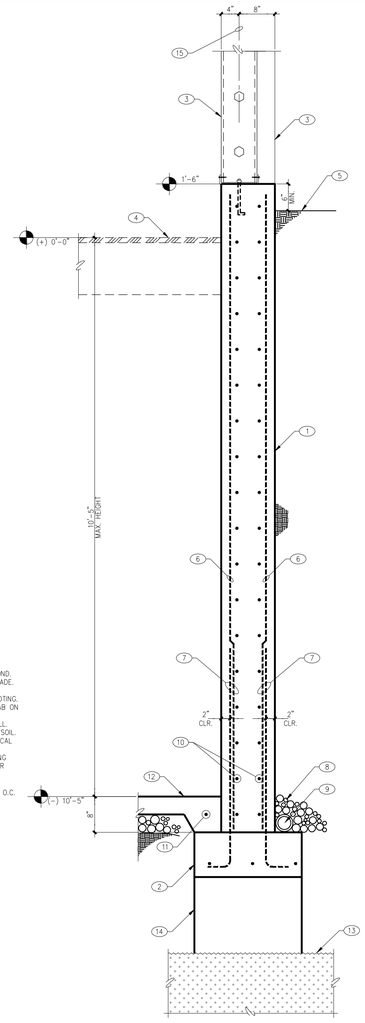
205 SEE DETAIL 205 FOR INFORMATION NOT SHOWN



KEY NOTES:
1. "CONC. CJ" WHERE SHOWN ON PLAN.
2. CENTERLINE OF COLUMN.
3. KEYED JOINT.
4. RADIUS 1'-6" MINIMUM AND 3'-0" MAXIMUM.
5. 2'-0" MINIMUM AND 3'-0" MAXIMUM.

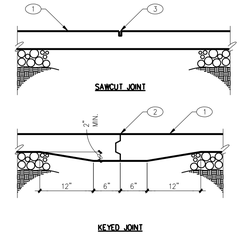
NOTE:
FOR CLARITY, COLUMNS OMITTED. FOR CONFIGURATION OF SPECIFIC CLOSURE POURS SEE PLAN.

105 PLAN - COLUMN CLOSURE POUR AT CONCRETE SLAB
03-CS0601 NO SCALE



KEY NOTES:
1. 12" CONCRETE BASEMENT WALL.
2. CONCRETE FOOTING.
3. EXTERIOR WALL AND VENEER PER FRAMING DETAILS.
4. FINISH FLOOR - SEE FRAMING DETAIL 221 FOR CONNECTION.
5. FINISH GRADE.
6. WALL REINFORCEMENT PER SCHEDULE.
7. LAP AND MATCH PER G.S.N. AND WALL SCHEDULE.
8. GRANULAR BACKFILL.
9. FRENCH DRAIN SYSTEM.
10. WALL REINFORCEMENT PER SCHEDULE.
11. NOT USED.
12. CONCRETE SLAB ON GRADE.
13. LOWER DENSE GRANITE SOIL. VERIFY WITH GEOTECHNICAL ENGINEER.
14. OVER-EXCAVATE FOOTING AREA AND USE REGULAR CONCRETE AS FILL.
15. CENTERLINE OF STEEL STUD WALL.

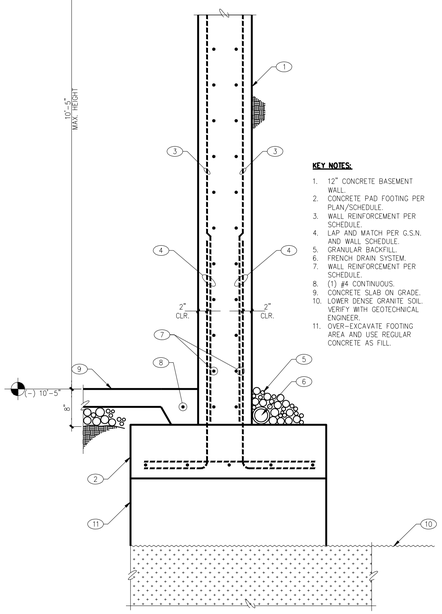
103 CONCRETE BASEMENT WALL AT CONCRETE FOOTING
NO SCALE



KEY NOTES:
1. CONCRETE SLAB ON GRADE.
2. CONTINUOUS KEYED JOINT.
3. SAWCUT: ¼" WIDE X ¼" SLAB THICKNESS IN DEPTH. CUT SHALL BE MADE SOON ENOUGH TO PREVENT SHRINKAGE CRACKING, BUT NOT SO SOON AS TO CAUSE SPALLING OF THE CONCRETE WHILE SAWING. WORK MUST BE COMPLETE WITHIN 16 HOURS OF CONCRETE PLACEMENT.

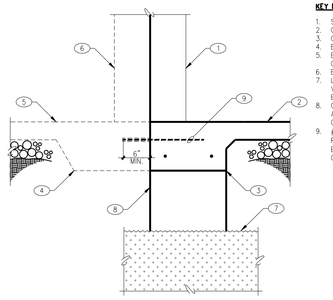
NOTE:
KEYED JOINTS NEED ONLY OCCUR AT EXPOSED EDGES DURING PLACEMENT UNLESS SPECIFICALLY NOTED ON THE PLANS. "TOOL WET JOINT", "ZIP STRIP", ETC. SHALL MATCH SAWCUT REQUIREMENTS.

101 CONTROL JOINTS IN CONCRETE SLAB ON GRADE
03-CS0101 NO SCALE



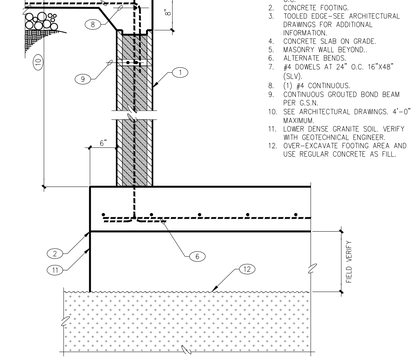
KEY NOTES:
1. 12" CONCRETE BASEMENT WALL.
2. CONCRETE PAD FOOTING PER PLAN/SCHEDULE.
3. WALL REINFORCEMENT PER SCHEDULE.
4. LAP AND MATCH PER G.S.N. AND WALL SCHEDULE.
5. GRANULAR BACKFILL.
6. FRENCH DRAIN SYSTEM.
7. WALL REINFORCEMENT PER SCHEDULE.
8. (1) #4 CONTINUOUS.
9. CONCRETE SLAB ON GRADE.
10. LOWER DENSE GRANITE SOIL. VERIFY WITH GEOTECHNICAL ENGINEER.
11. OVER-EXCAVATE FOOTING AREA AND USE REGULAR CONCRETE AS FILL.

108 CONCRETE BASEMENT WALL AT CONCRETE FOOTING
NO SCALE



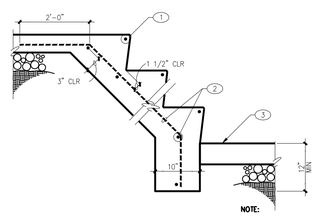
KEY NOTES:
1. STEEL STUD WALL BEYOND.
2. CONCRETE SLAB ON GRADE.
3. CONCRETE FOOTING.
4. EXISTING CONCRETE FOOTING.
5. EXISTING CONCRETE SLAB ON GRADE.
6. EXISTING CONCRETE WALL.
7. LOWER DENSE GRANITE SOIL. VERIFY WITH GEOTECHNICAL ENGINEER.
8. OVER-EXCAVATE FOOTING AREA AND USE REGULAR CONCRETE AS FILL.
9. #4X18" LONG REINFORCEMENT AT 12" O.C. EPOXY INTO EXISTING CONCRETE FOOTING.

106 DOOR OPENING AT CONCRETE FOOTING
NO SCALE



KEY NOTES:
1. 8" MASONRY WALL WITH #4 AT 24" O.C.
2. CONCRETE FOOTING.
3. TOOLED EDGE-SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
4. CONCRETE SLAB ON GRADE.
5. MASONRY WALL BEYOND..
6. ALTERNATE BENDS.
7. #4 DOWELS AT 24" O.C. 16"X48" (SLV).
8. (1) #4 CONTINUOUS.
9. CONTINUOUS GROUTED BOND BEAM PER G.S.N.
10. SEE ARCHITECTURAL DRAWINGS. 4'-0" MAXIMUM.
11. LOWER DENSE GRANITE SOIL. VERIFY WITH GEOTECHNICAL ENGINEER.
12. OVER-EXCAVATE FOOTING AREA AND USE REGULAR CONCRETE AS FILL.

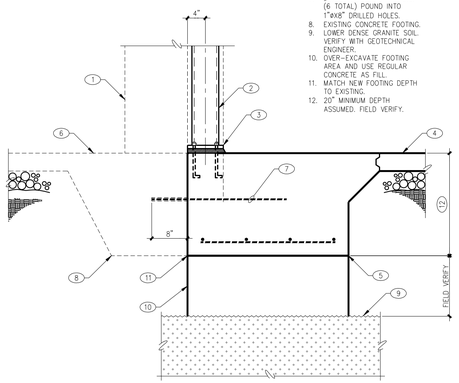
102 DOOR OPENING; ELEVATOR PIT STEMWALL AT MAT FOOTING
NO SCALE



KEY NOTES:
1. #4 NOSING BARS.
2. #4 AT 12" O.C. EACH WAY.
3. CONCRETE SLAB ON GRADE.

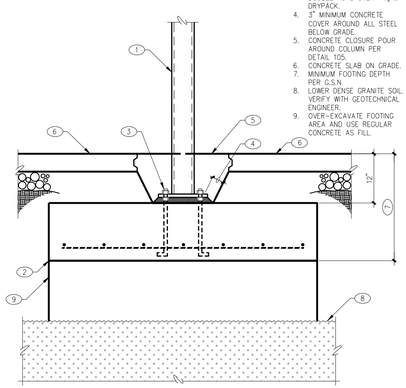
NOTE:
FOR INFORMATION NOT NOTED SEE ARCHITECTURAL DRAWINGS.

109 TYPICAL CONCRETE STAIRS ON GRADE
NO SCALE



KEY NOTES:
1. EXISTING CONCRETE WALL.
2. STEEL COLUMN.
3. STEEL BASEPLATE W/ DOUBLE NUTS ON 1½" DRYPACK.
4. CONCRETE SLAB ON GRADE.
5. CONCRETE FOOTING.
6. EXISTING CONCRETE SLAB ON GRADE.
7. #8X30" DOWELS AT 12"O.C. (6 TOTAL) POUND INTO 1"x18" DRILLED HOLES.
8. EXISTING CONCRETE FOOTING.
9. LOWER DENSE GRANITE SOIL. VERIFY WITH GEOTECHNICAL ENGINEER.
10. OVER-EXCAVATE FOOTING AREA AND USE REGULAR CONCRETE AS FILL.
11. MATCH NEW FOOTING DEPTH TO EXISTING.
12. 20" MINIMUM DEPTH ASSUMED. FIELD VERIFY.

107 STEEL COLUMN AT CONCRETE FOOTING
NO SCALE



KEY NOTES:
1. STEEL COLUMN.
2. CONCRETE FOOTING.
3. STEEL BASE PLATE WITH DOUBLE NUTS OVER 1 ½"± DRYPACK.
4. 3" MINIMUM CONCRETE COVER AROUND ALL STEEL BELOW GRADE.
5. CONCRETE CLOSURE POUR AROUND COLUMN PER DETAIL 105.
6. CONCRETE SLAB ON GRADE.
7. MINIMUM FOOTING DEPTH PER G.S.N.
8. LOWER DENSE GRANITE SOIL. VERIFY WITH GEOTECHNICAL ENGINEER.
9. OVER-EXCAVATE FOOTING AREA AND USE REGULAR CONCRETE AS FILL.

104 STEEL COLUMN AT CONCRETE FOOTING
03-SC-CF0101 NO SCALE

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JOB NO.: 2017-0325 | PROJECT MANAGER: SL/RKF | CAD OPERATOR: MJS

FROST STRUCTURAL ENGINEERING
1678 Oaklawn Drive, Suite C
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REVISIONS	BY

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Registered Professional Engineer Richard K. Frost CERTIFICATE NO. 27341 DATE SIGNED 1.3.19 ARIZONA U.S.A.
EXPIRES 9/30/2020

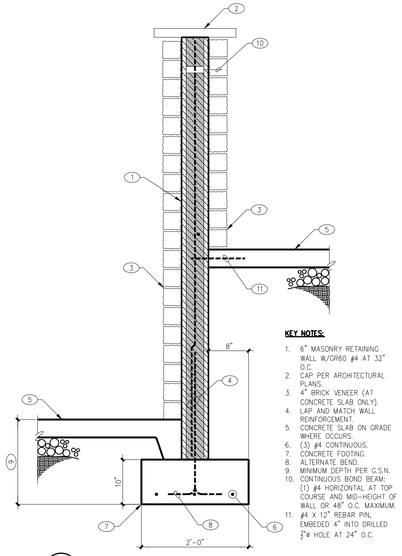
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ARCHITECTURE & PLANNING

DRAWING: FOUNDATION DETAILS 100-SERIES

PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley, St.
Prescott, AZ, 86301

PROJECT: 109-02-035

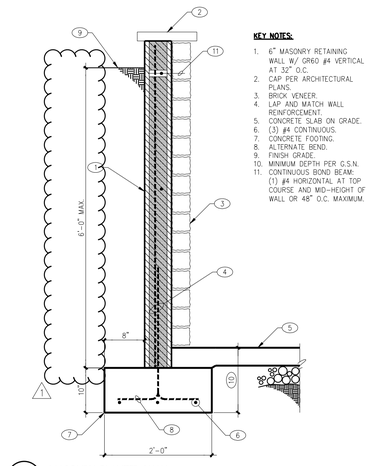
DRAWN BY	MJS
CHECKED BY	SL/RKF
DATE	1/3/19
SCALE	AS NOTED
JOB NO.	2017-0325
SHEET	S4



KEY NOTES:

1. 6" MASONRY RETAINING WALL W/ GR60 #4 AT 32" O.C.
2. CAP PER ARCHITECTURAL PLANS.
3. 4" BRICK VENEER (AT CONCRETE SLAB ONLY).
4. LAP AND MATCH WALL REINFORCEMENT.
5. CONCRETE SLAB ON GRADE WHERE OCCURS.
6. (3) #4 CONTINUOUS.
7. CONCRETE FOOTING.
8. ALTERNATE BEND.
9. MINIMUM DEPTH PER G.S.N.
10. CONTINUOUS BOND BEAM: (1) #4 HORIZONTAL AT TOP COURSE AND MID-HEIGHT OF WALL OR 48" O.C. MAXIMUM.
11. #4 X 12" REBAR PIN, EMBEDED 4" INTO DRILLED $\frac{3}{8}$"ø HOLE AT 24" O.C.

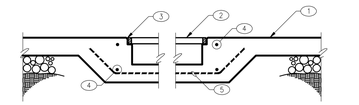
116 MASONRY PLANTER WALL
NO SCALE



KEY NOTES:

1. 6" MASONRY RETAINING WALL W/ GR60 #4 VERTICAL AT 32" O.C.
2. CAP PER ARCHITECTURAL PLANS.
3. BRICK VENEER.
4. LAP AND MATCH WALL REINFORCEMENT.
5. CONCRETE SLAB ON GRADE.
6. (3) #4 CONTINUOUS.
7. CONCRETE FOOTING.
8. ALTERNATE BEND.
9. FINISH GRADE.
10. MINIMUM DEPTH PER G.S.N.
11. CONTINUOUS BOND BEAM: (1) #4 HORIZONTAL AT TOP COURSE AND MID-HEIGHT OF WALL OR 48" O.C. MAXIMUM.

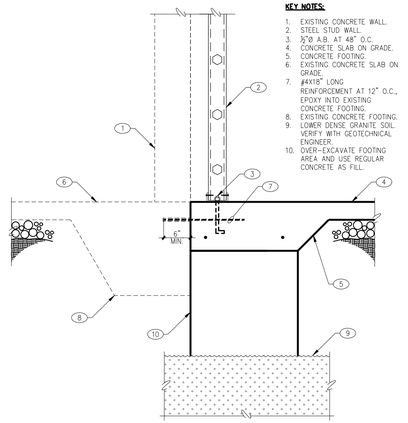
114 MASONRY PLANTER WALL
NO SCALE



KEY NOTES:

1. CONCRETE SLAB ON GRADE.
2. GRATING PER ARCHITECTURAL DRAWINGS.
3. TOOLED EDGE.
4. (1) #4 CONTINUOUS.
5. #4 AT 16" O.C.

111 CATCH BASIN AT CONCRETE SLAB ON GRADE
03-CS0901
NO SCALE



KEY NOTES:

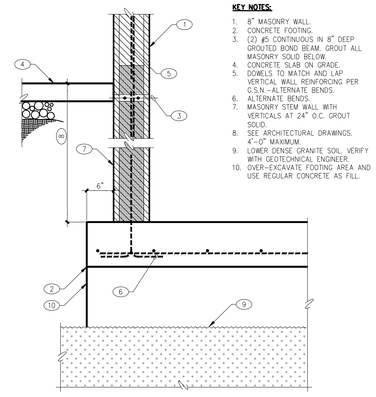
1. EXISTING CONCRETE WALL.
2. STEEL STUD WALL.
3. $\frac{5}{8}$"Ø A.B. AT 48" O.C.
4. CONCRETE SLAB ON GRADE.
5. CONCRETE FOOTING.
6. EXISTING CONCRETE SLAB ON GRADE.
7. #4X18" LONG REINFORCEMENT AT 12" O.C., EPOXY INTO EXISTING CONCRETE FOOTING.
8. EXISTING CONCRETE FOOTING.
9. LOWER DENSE GRANITE SOIL. VERIFY WITH GEOTECHNICAL ENGINEER.
10. OVER-EXCAVATE FOOTING AREA AND USE REGULAR CONCRETE AS FILL.

112 STEEL STUD WALL AT CONCRETE FOOTING
NO SCALE

KEY NOTES:

1. 6" MASONRY RETAINING WALL W/ GR60 #4 AT 32" O.C.
2. CAP PER ARCHITECTURAL PLANS.
3. BRICK VENEER.
4. LAP AND MATCH WALL REINFORCEMENT.
5. CONCRETE SLAB ON GRADE.
6. (3) #4 CONTINUOUS.
7. CONCRETE FOOTING.
8. ALTERNATE BEND.
9. FINISH GRADE.
10. MINIMUM FOOTING DEPTH PER G.S.N.
11. CONTINUOUS BOND BEAM: (1) #4 HORIZONTAL AT TOP COURSE AND MID-HEIGHT OF WALL OR 48" O.C. MAXIMUM.
12. BUILDING FOUNDATION WALL WHERE SHOWN ON PLAN.
13. PROPERTY LINE.

115 MASONRY PLANTER WALL AT PROPERTY LINE
NO SCALE



KEY NOTES:

1. 8" MASONRY WALL.
2. CONCRETE FOOTING.
3. (2) #5 CONTINUOUS IN 8" DEEP GROUTED BOND BEAM. GROUT ALL MASONRY SOLID BELOW.
4. CONCRETE SLAB ON GRADE.
5. DOWELS TO MATCH AND LAP VERTICAL WALL REINFORCING PER G.S.N.-ALTERNATE BENDS.
6. ALTERNATE BENDS.
7. MASONRY STEM WALL WITH VERTICALS AT 24" O.C. GROUT SOLID.
8. SEE ARCHITECTURAL DRAWINGS. 4'-0" MAXIMUM.
9. LOWER DENSE GRANITE SOIL. VERIFY WITH GEOTECHNICAL ENGINEER.
10. OVER-EXCAVATE FOOTING AREA AND USE REGULAR CONCRETE AS FILL.

113 ELEVATOR PIT STEMWALL AT MAT FOOTING
NO SCALE

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JOB NO.: 2017-0325	PROJECT MANAGER: SL/RKF	CAD OPERATOR: MJS

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REVISIONS	BY
CITY COMMENTS 1.3.2019	RKF

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Registered Professional Engineer — Certificate No. 27341 — Richard K. Frost — Date Signed 1.3.19 — Arizona U.S.A.

EXPIRES 9/30/2020

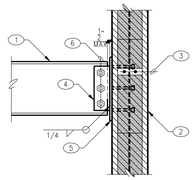
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ARCHITECTURE & PLANNING

DRAWING: FOUNDATION DETAILS 100-SERIES

PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ, 86301

PROJECT: 109-02-035

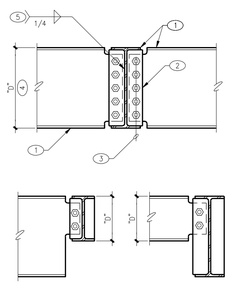
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DATE	1/3/19
SCALE	AS NOTED
JOB NO.	2017-0325
SHEET	S4.1



KEY NOTES:

1. STEEL BEAM.
2. MASONRY WALL.
3. CONTINUOUS BOND BEAM PER G.S.N.
4. ⅜" STEEL SHEAR PLATE.
5. 16"X6"X⅜" STEEL EMBED PLATE WITH (6) ⅝"ø X 5" LONG HEADED STUDS.
6. FOR TYPE, SIZE, AND NUMBER OF BOLTS, SEE DETAIL 224 "BOLT SCHEDULE FOR STEEL CONNECTIONS."

217 STEEL BEAM AT MASONRY WALL
05-SB-MW0202 NO SCALE

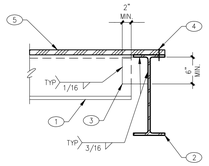


KEY NOTES:

1. STEEL BEAM.
2. ⅜" STEEL SHEAR PLATE-USE ½" STEEL SHEAR PLATE WHERE "D"=27" OR GREATER.
3. FOR TYPE, SIZE, AND NUMBER OF BOLTS, SEE DETAIL 224 "BOLT SCHEDULE FOR STEEL CONNECTIONS".
4. "D"=LESSER OF BEAM DEPTHS AS OCCURS.
5. WELD (3) SIDES TYPICAL-USE SAME CONNECTION AT STIFFENER PLATES WHEN REQUIRED.

NOTE:
AT ONE SIDED CONNECTIONS. INSTALL ⅜" STIFFENER PLATE OPPOSITE SHEAR PLATE.

218 STEEL BEAM AT STEEL BEAM
05-SB-SB0101 NO SCALE

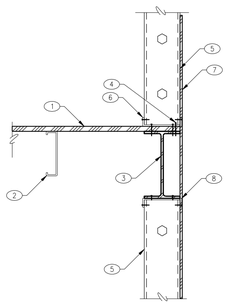


KEY NOTES:

1. STEEL PURLIN.
2. STEEL BEAM.
3. ⅜" THICK STEEL PLATE.
4. EDGE SCREW.
5. PLYWOOD SHEATHING.

NOTE:
SCREW OPTION TO WELDS: (4) #12 X 1.25" TEKS SCREWS AT PURLIN TO PLATE.

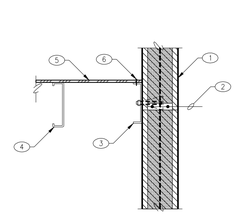
213 STEEL PURLINS AT STEEL BEAM
NO SCALE



KEY NOTES:

1. PLYWOOD SHEATHING.
2. STEEL JOIST.
3. STEEL BEAM.
4. EDGE SCREW.
5. STEEL STUD WALL.
6. CONTINUOUS BOTTOM TRACK W/(2) #12 TECK SCREW AT 12" O.C.
7. WALL SHEATHING AS OCCURS.
8. CONTINUOUS TOP TRACK W/ (2) #12 TECK SCREWS AT 12" O.C.

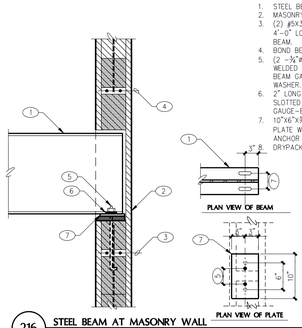
214 PLYWOOD SHEATHING AT STEEL BEAM
NO SCALE



KEY NOTES:

1. MASONRY WALL.
2. CONTINUOUS BOND BEAM PER G.S.N.
3. CONTINUOUS STEEL LEDGER.
4. STEEL JOIST.
5. PLYWOOD SHEATHING.
6. EDGE SCREW.

215 PLYWOOD SHEATHING AT MASONRY WALL
NO SCALE



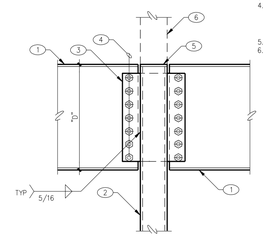
KEY NOTES:

1. STEEL BEAM.
2. MASONRY WALL.
3. (2) #9x3'-6" IN 8" DEEP X 4'-0" LONG GROUTED BOND BEAM.
4. BOND BEAM REINFORCING.
5. (2 -)⅝"ø THREADED STUDS WELDED TO BEARING PLATE AT BEAM GAUGE WITH NUT AND WASHER.
6. 2" LONG HORIZONTALLY SLOTTED HOLE ON BEAM GAUGE-EACH SIDE OF WEB.
7. 10"X6"X⅜" STEEL BEARING PLATE WITH (2) ¾"ø X12" ANCHOR BOLTS OVER 1"± DRYPACK.

PLAN VIEW OF BEAM

PLAN VIEW OF PLATE

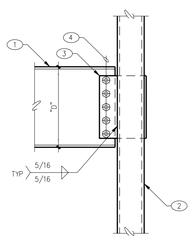
216 STEEL BEAM AT MASONRY WALL
NO SCALE



KEY NOTES:

1. STEEL BEAM.
2. STEEL COLUMN.
3. ⅜" STEEL KNIFE PLATE.
4. FOR TYPE, SIZE, AND NUMBER OF BOLTS, SEE DETAIL 224 "BOLT SCHEDULE FOR STEEL CONNECTIONS".
5. ¾" CLOSURE PLATE.
6. COLUMN CONTINUES WHERE SHOWN ON PLAN.

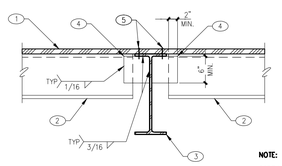
209 STEEL BEAM AT STEEL COLUMN
05-SB-SC0202 NO SCALE



KEY NOTES:

1. STEEL BEAM.
2. STEEL COLUMN.
3. ⅜" STEEL KNIFE PLATE.
4. FOR TYPE, SIZE, AND NUMBER OF BOLTS, SEE DETAIL 224 "BOLT SCHEDULE FOR STEEL CONNECTIONS".

210 STEEL BEAM AT STEEL COLUMN
05-SB-SC0204 NO SCALE

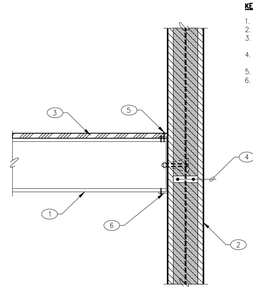


KEY NOTES:

1. PLYWOOD SHEATHING.
2. STEEL PURLIN.
3. ⅜" THICK STEEL PLATE.
4. EDGE SCREW.
5. STEEL BEAM.

NOTE:
SCREW OPTION TO WELDS: (4) #12 X 1.25" TEKS SCREWS AT PURLIN TO PLATE.

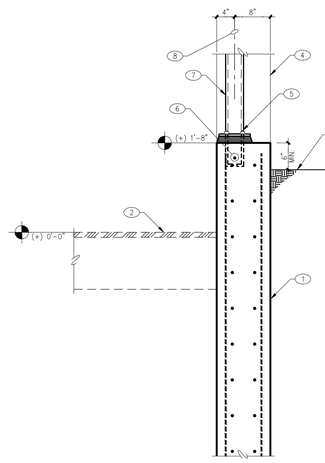
211 STEEL PURLINS AT STEEL BEAM
NO SCALE



KEY NOTES:

1. STEEL PURLIN.
2. MASONRY WALL.
3. PLYWOOD DECK SHEATHING PER PLAN.
4. CONTINUOUS BOND BEAM PER G.S.N.
5. EDGE SCREW.
6. CONTINUOUS 12" STEEL TRACK W/ #10 TEKS SCREW TOP AND BOTTOM TO STEEL JOIST/PURLIN.

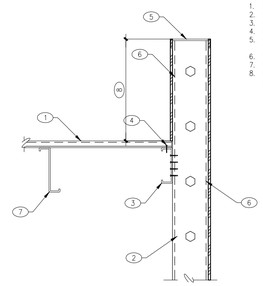
212 STEEL PURLIN AT MASONRY WALL
NO SCALE



KEY NOTES:

1. 12" CONCRETE BASEMENT WALL.
2. FINISH FLOOR - SEE FRAMING DETAIL 221 FOR CONNECTION.
3. FINISH GRADE.
4. WALL SYSTEM FROM BEYOND.
5. BASE PLATE CONNECTION PER SCHEDULE.
6. #4X36" LONG CENTERED UNDER STEEL POST.
7. STEEL COLUMN.
8. CENTERLINE OF STEEL COLUMN.

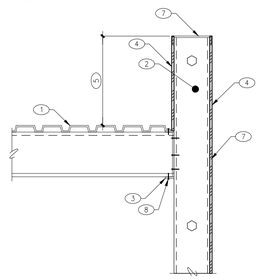
205 STEEL COLUMN AT CONCRETE WALL
NO SCALE



KEY NOTES:

1. STEEL DECK.
2. STEEL STUD WALL.
3. CONTINUOUS TRACK LEDGER.
4. EDGE ATTACHMENT PER G.S.N.
5. CONTINUOUS STEEL TRACK AT TOP.
6. WALL SHEATHING AS OCCURS.
7. ROOF PURLIN PER PLAN.
8. HEIGHT OF PARAPET WALL PER ARCHITECTURAL DRAWINGS.

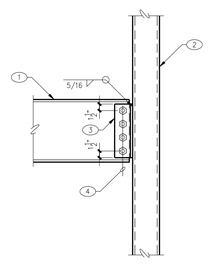
206 STEEL DECK AT STEEL STUD WALL
NO SCALE



KEY NOTES:

1. STEEL DECK.
2. STEEL STUD WALL.
3. CONTINUOUS STEEL LEDGER.
4. WALL SHEATHING AS OCCURS.
5. HEIGHT OF PARAPET WALL PER ARCHITECTURAL PLANS.
6. CONTINUOUS STEEL TRACK PER TYPICAL DETAIL.
7. (1) #12 TEKS SCREW AT TOP AND BOTTOM OF EACH JOIST/PURLIN.

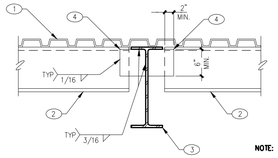
207 STEEL JOIST/PURLIN AT STEEL STUD WALL
NO SCALE



KEY NOTES:

1. STEEL BEAM.
2. STEEL COLUMN.
3. ⅜" PL.
4. FOR TYPE, SIZE, AND NUMBER OF BOLTS, SEE DETAIL 224 "BOLT SCHEDULE FOR STEEL CONNECTIONS".

208 STEEL BEAM AT STEEL COLUMN
05-SB-SC0205 NO SCALE

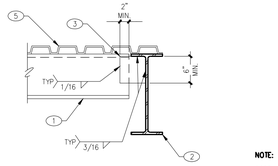


KEY NOTES:

1. STEEL DECK.
2. STEEL PURLIN.
3. STEEL BEAM.
4. ⅜" THICK STEEL PLATE.

NOTE:
SCREW OPTION TO WELDS: (4) #12 X 1.25" TEKS SCREWS AT PURLIN TO PLATE.

201 STEEL PURLINS AT STEEL BEAM
NO SCALE

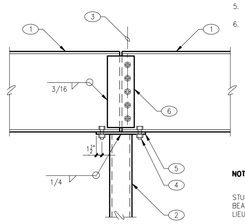


KEY NOTES:

1. STEEL PURLIN.
2. STEEL BEAM.
3. ⅜" THICK STEEL PLATE.
4. EDGE SCREW.
5. STEEL DECK.

NOTE:
SCREW OPTION TO WELDS: (4) #12 X 1.25" TEKS SCREWS AT PURLIN TO PLATE.

202 STEEL PURLINS AT STEEL BEAM
NO SCALE

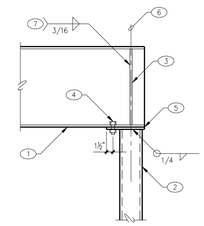


KEY NOTES:

1. STEEL BEAM.
2. STEEL COLUMN.
3. FOR TYPE, SIZE, AND NUMBER OF BOLTS, SEE DETAIL 224 "BOLT SCHEDULE FOR STEEL CONNECTIONS".
4. (4) ¾"ø BOLTS ON BEAM GAUGE.
5. ½" CAP PLATE. PLATE WIDTH EQUALS BEAM WIDTH.
6. ⅜"X7" STEEL PLATE.

NOTE:
STUDS WELDED TO BOTTOM OF BEAM FLANGE MAY BE USED IN LIEU OF BOLTS.

203 STEEL BEAMS TO STEEL COLUMN CONNECTION
05-SB-SC0104 NO SCALE



KEY NOTES:

1. STEEL BEAM.
2. STEEL COLUMN.
3. ⅜" STIFFENER PLATE EACH SIDE OF BEAM.
4. (2) ¾"ø BOLTS ON BEAM GAUGE.
5. ½" CAP PLATE. PLATE WIDTH EQUALS BEAM WIDTH.
6. CENTERLINE OF COLUMN.
7. WELD (3) SIDES-TYPICAL.

NOTE:
A. STUDS WELDED TO BOTTOM OF FLANGE MAY BE USED IN LIEU OF BOLTS.

204 STEEL BEAM AT STEEL COLUMN
05-SB-SC0101 NO SCALE

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JOB NO.: 2017-0325	PROJECT MANAGER: SL/RKF	CAD OPERATOR: MJS

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REVISIONS	BY

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27341
RICHARD K. FROST
1.3.19
DATE SIGNED
ARIZONA U.S.A.
EXPIRES 9/30/2020

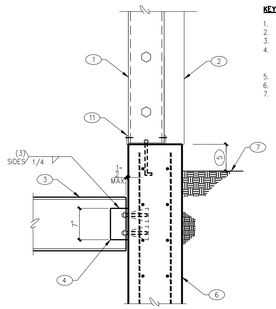
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ARCHITECTURE & PLANNING

DRAWING: MORE FRAMING DETAILS 200-SERIES

PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ, 86301

PROJECT: 109-02-035

DRAWN BY	MJS
CHECKED BY	SL/RKF
DATE	1/3/19
SCALE	AS NOTED
JOB NO.	2017-0325
SHEET	S5

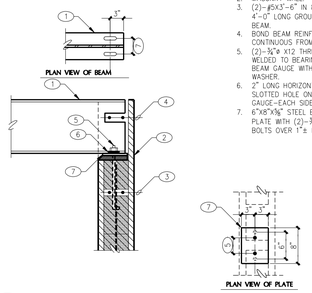


KEY NOTES:

1. STEEL STUD WALL.
2. BRICK VENEER.
3. STEEL BEAM.
4. STEEL ANGLE: L4X4X5/16X0'-7" LONG W/ (2) 3/4"ø@6" EXPANSION ANCHORS.
5. 6" MAXIMUM
6. CONCRETE WALL.
7. FINISH GRADE.

231 STEEL BEAM AT CONCRETE WALL

NO SCALE



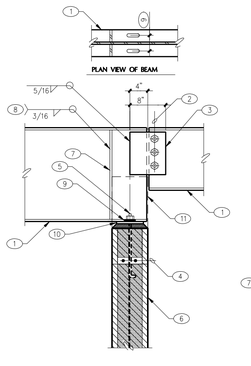
KEY NOTES:

1. STEEL BEAM.
2. MASONRY WALL.
3. (2)-#5X3'-6" IN 8" DEEP X 4'-0" LONG GROUTED BOND BEAM.
4. BOND BEAM REINFORCING CONTINUOUS FROM BEYOND.
5. (2)-3/4"ø X12 THREADED STUDS WELDED TO BEARING PLATE AT BEAM GAUGE WITH NUT AND WASHER.
6. 2" LONG HORIZONTALLY SLOTTED HOLE ON BEAM GAUGE-EACH SIDE OF WEB.
7. 6"X6"X3/8" STEEL BEARING PLATE WITH (2)-3/4"ø ANCHOR BOLTS OVER 1"± DRYPACK.

227 STEEL BEAM AT MASONRY WALL

05-SB-MW0102

NO SCALE

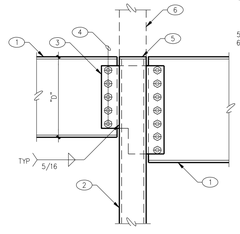


KEY NOTES:

1. STEEL BEAM.
2. FOR TYPE, SIZE, AND NUMBER OF BOLTS, SEE DETAIL 224 "BOLT SCHEDULE FOR STEEL CONNECTIONS".
3. 3/8" STEEL PLATE.
4. (1) #5 X 3'-6" IN 8" DEEP X 4'-0" LONG GROUTED BOND BEAM.
5. (2) 3/4"ø THREADED STUDS WELDED TO BEARING PLATE AT BEAM GAUGE WITH NUT AND WASHER.
6. MASONRY WALL.
7. 3/8" THICK STIFFENER PLATE EACH SIDE OF BEAM.
8. WELD 3 SIDES-TYPICAL.
9. 2" LONG HORIZONTALLY SLOTTED HOLE ON BEAM GAUGE-EACH SIDE OF WEB.
10. 10"X6"X3/8" THICK STEEL BEARING PLATE WITH (2) 3/4"ø x12" ANCHOR BOLTS OVER 1"± DRYPACK.
11. MASONRY WALL EXTENDS ABOVE BEAM BEARING - SEE PLAN FOR ELEVATION.

232 STEEL BEAMS AT MASONRY WALL

NO SCALE



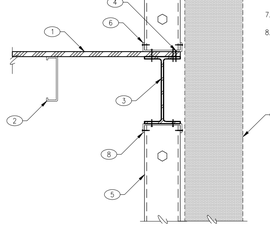
KEY NOTES:

1. STEEL BEAM.
2. STEEL COLUMN.
3. 3/8" STEEL KNIFE PLATE.
4. FOR TYPE, SIZE, AND NUMBER OF BOLTS, SEE DETAIL 224 "BOLT SCHEDULE FOR STEEL CONNECTIONS".
5. 3/8" CLOSURE PLATE.
6. COLUMN CONTINUES WHERE SHOWN ON PLAN.

228 STEEL BEAM AT STEEL COLUMN

05-SB-SC0202

NO SCALE

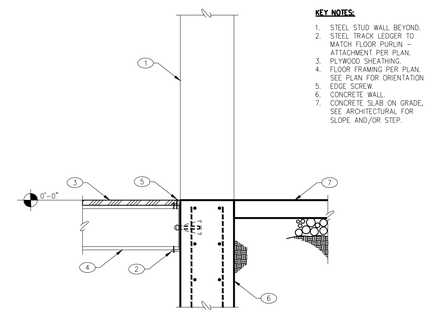


KEY NOTES:

1. PLYWOOD SHEATHING.
2. STEEL JOIST.
3. STEEL BEAM.
4. EDGE SCREW.
5. STEEL STUD WALL.
6. CONTINUOUS BOTTOM TRACK W/(2) #12 TEKS SCREW AT 12" O.C.
7. EXISTING EXTERIOR CONCRETE WALL SYSTEM.
8. CONTINUOUS TOP TRACK W/ (2) #12 TEKS SCREWS AT 12" O.C.

229 PLYWOOD SHEATHING AT STEEL BEAM

NO SCALE

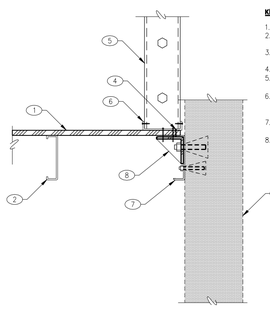


KEY NOTES:

1. STEEL BEAM WITH (2) 3/4"ø x12" ANCHOR BOLTS OVER 1"± DRYPACK.
2. STEEL BEAM.
3. STEEL TRACK LEDGER TO MATCH FLOOR PURLIN - ATTACHMENT PER PLAN.
4. FLOOR FRAMING PER PLAN. SEE PLAN FOR ORIENTATION
5. EDGE SCREW.
6. CONCRETE WALL.
7. CONCRETE SLAB ON GRADE, SEE ARCHITECTURAL FOR SLOPE AND/OR STEP.

233 PLYWOOD SHEATHING AT CONCRETE WALL/DOOR OPENING

NO SCALE

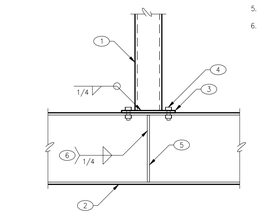


KEY NOTES:

1. PLYWOOD SHEATHING.
2. CONTINUOUS STEEL CEE PURLIN TYPE LEDGER
3. EXISTING EXTERIOR CONCRETE WALL SYSTEM.
4. EDGE SCREW.
5. STEEL STUD WALL(SUPPORTS BRICK VENEER ABOVE).
6. CONTINUOUS BOTTOM TRACK W/(2) #12 TEKS SCREW AT 16" O.C.
7. CONTINUOUS STEEL LEDGER PER PLAN/SCHEDULE.
8. CONTINUOUS STEEL ANGLE STIFFENER L6X6X5/8 WITH 3/8" STIFFENER PLATES AND 1"Ø X 6" EXPANSION ANCHORS AT 16" O.C. CENTER ANCHORS BETWEEN STIFFENER PLATES.

230 PLYWOOD SHEATHING AT STEEL STUD WALL

NO SCALE



KEY NOTES:

1. STEEL COLUMN.
2. STEEL BEAM.
3. 3/8" THICK BEARING PLATE.
4. (4) 3/4"ø BOLTS AT BEAM CAGE.
5. 3/8" STIFFENER PLATE EACH SIDE OF WEB.
6. (3) SIDES.

223 STEEL COLUMN AT STEEL BEAM

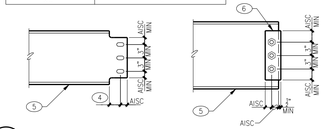
05-SC-SB0101

NO SCALE

NOMINAL BEAM DEPTH "D"	NUMBER OF 3/4"ø ASTM, A325N BOLTS
UP TO 7"	2
8" - 11"	2
12" - 14"	3
15" - 17"	4
18" - 20"	5
21" - 23"	6
24" - 29"	7
30" - 32"	8
33" - 35"	9
36"	10

KEY NOTES:

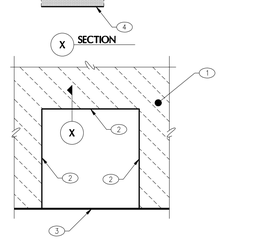
1. THE TYPICAL STEEL BEAM TO STEEL COLUMN OR STEEL BEAM TO STEEL BEAM CONNECTION CONSISTS OF 3/8" THICK SINGLE SHEAR PLATES WITH 3/4"ø ASTM A325N BOLTS. USE 3/8" SHEAR PLATES WHERE "D"=27" OR GREATER.
2. ALL BOLTS SHALL BE INSTALLED USING SHORT SLOTTED HOLES IN EITHER THE BEAM WEB OR THE SHEAR PLATE PER LATEST AISC SPECIFICATIONS.
3. MAINTAIN MINIMUM BOLT SPACING AND EDGE DISTANCES PER AISC SPECIFICATIONS 1.16.4 AND 1.16.5, AND AS SHOWN BELOW.
4. CLIP FLANGE FOR 1/2" CLR.
5. STEEL BEAM.
6. SHEAR PLATE.



224 BOLT SCHEDULE FOR STEEL CONNECTIONS

02-S02

NO SCALE

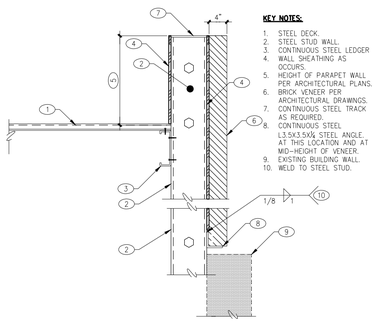


KEY NOTES:

1. EXISTING 14" CONCRETE WALL.
2. SAW-CUT NEW OPENING.
3. EXISTING FLOOR LINE.
4. NO STEEL LINTEL OR SUPPORT REQUIRED BELOW NEW OPENING.

225 OPENING IN EXISTING CONCRETE WALL

NO SCALE

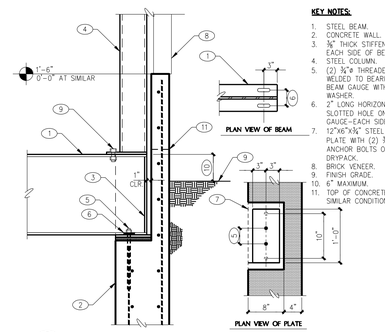


KEY NOTES:

1. STEEL DECK.
2. STEEL STUD WALL.
3. CONTINUOUS STEEL LEDGER
4. WALL SHEATHING AS OCCURS.
5. HEIGHT OF PARAPET WALL PER ARCHITECTURAL PLANS.
6. BRICK VENEER PER ARCHITECTURAL DRAWINGS.
7. CONTINUOUS STEEL TRACK AS REQUIRED.
8. CONTINUOUS STEEL L3.5X3.5X5/16 STEEL ANGLE AT THIS LOCATION AND AT MID-HEIGHT OF VENEER.
9. EXISTING BUILDING WALL.
10. WELD TO STEEL STUD.

226 STEEL DECK AT STEEL STUD WALL

NO SCALE



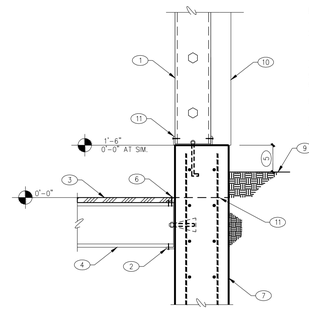
KEY NOTES:

1. STEEL BEAM.
2. CONCRETE WALL.
3. 3/8" THICK STIFFENER PLATE EACH SIDE OF BEAM WEB.
4. STEEL COLUMN.
5. (2) 3/4"ø THREADED STUDS WELDED TO BEARING PLATE AT BEAM GAUGE WITH NUT AND WASHER.
6. 2" LONG HORIZONTALLY SLOTTED HOLE ON BEAM GAUGE-EACH SIDE OF WEB.
7. 12"X6"X3/8" STEEL BEARING PLATE WITH (2) 3/4"ø x12" ANCHOR BOLTS OVER 1"± DRYPACK.
8. BRICK VENEER.
9. FINISH GRADE.
10. 6" MAXIMUM.
11. TOP OF CONCRETE WALL AT SIMILAR CONDITION.

220 STEEL BEAM AT CONCRETE WALL

05 SB MW0103

NO SCALE

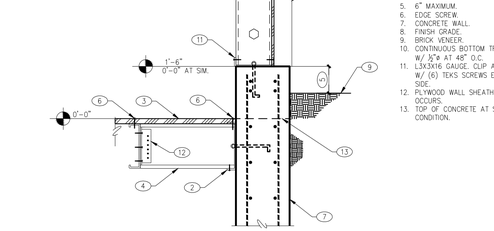


KEY NOTES:

1. STEEL STUD WALL.
2. STEEL TRACK LEDGER TO MATCH FLOOR PURLIN - ATTACHMENT PER PLAN.
3. PLYWOOD SHEATHING.
4. C-FLOOR PURLIN PER PLAN.
5. 6" MAXIMUM
6. EDGE SCREW.
7. CONCRETE WALL.
8. CONTINUOUS BOTTOM TRACK W/ 3/8"ø AT 48" O.C.
9. FINISH GRADE.
10. BRICK VENEER.
11. TOP OF CONCRETE AT SIMILAR CONDITION.

221 FLOOR PURLIN AT CONCRETE WALL

NO SCALE



KEY NOTES:

1. STEEL STUD WALL.
2. STEEL TRACK LEDGER TO MATCH FLOOR PURLIN - ATTACHMENT PER PLAN.
3. PLYWOOD SHEATHING.
4. CEE PURLIN BLOCKING AT 8'-0" O.C.
5. 6" MAXIMUM.
6. EDGE SCREW.
7. CONCRETE WALL.
8. FINISH GRADE.
9. BRICK VENEER.
10. CONTINUOUS BOTTOM TRACK W/ 3/8"ø AT 48" O.C.
11. L3X3X16 GAUGE, CLIP ANGLE W/ (6) TEKS SCREWS EACH SIDE.
12. PLYWOOD WALL SHEATHING AS OCCURS.
13. TOP OF CONCRETE AT SIMILAR CONDITION.

222 STEEL BEAM AT CONCRETE WALL

NO SCALE

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JOB NO.: 2017-0325 | PROJECT MANAGER: SL/RKF | CAD OPERATOR: MJS

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EXPIRES 9/30/2020

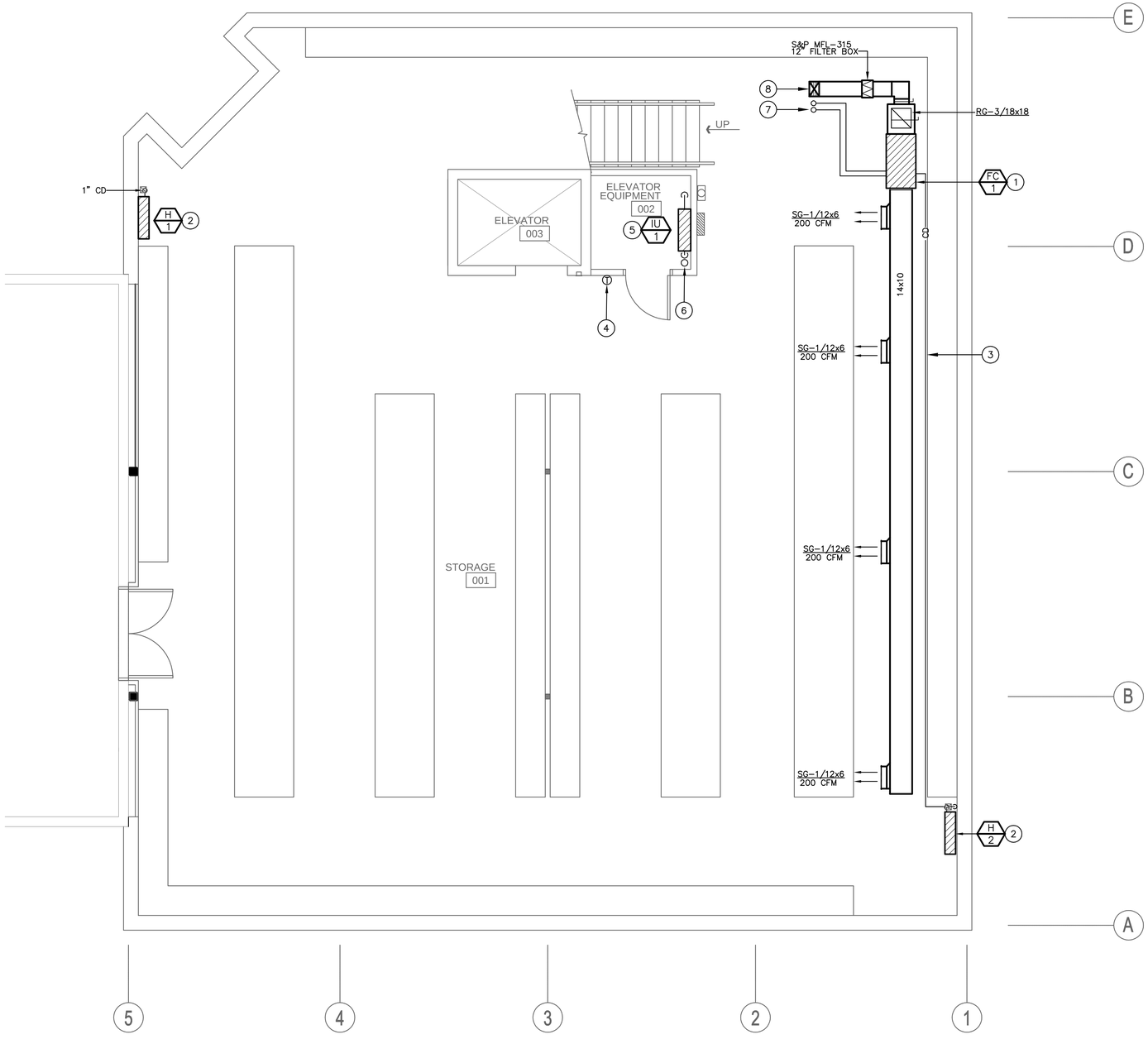
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ARCHITECTURE & PLANNING

DRAWING: MORE FRAMING DETAILS 200-SERIES

PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ, 86301

PROJECT: 109-02-035

DRAWN BY	MJS
CHECKED BY	SL/RKF
DATE	1/3/19
SCALE	AS NOTED
JOB NO.	2017-0325
SHEET	S5.1



KEYNOTES

1. NEW HORIZONTAL SPLIT SYSTEM HEAT PUMP FAN COIL UNIT MOUNTED FROM STRUCTURE, MOUNTING HEIGHT TO BE COORDINATED WITH ARCHITECT. ROUTE AND CONNECT REFRIGERANT LINES FROM CONDENSING UNIT.
2. WALL MOUNTED HUMIDIFIER WITH 1" COPPER DRAIN ROUTED ALONG WALL TO CONDENSATE PUMP. REFER TO PLUMBING DRAWINGS FOR WATER PIPING CONNECTIONS AND ROUTING.
3. EXTEND 3/4" TYPE 'M' COPPER CONDENSATE DRAIN PIPING FROM UNIT CONNECTION AND ROUTE TO NEAREST FLOOR SINK. SLOPE ALL DRAIN PIPING AT A MINIMUM 1/8" PER FOOT TOWARD DISCHARGE LOCATION.
4. HEATING/COOLING PROGRAMMABLE THERMOSTAT ON WALL AT 48" ABOVE FINISHED FLOOR. VERIFY EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECT/OWNER.
5. MINI SPLIT FAN COIL UNIT MOUNTED ON WALL AT APPROX. 84" A.F.F. PROVIDE WITH CONDENSATE PUMP
6. EXTEND PUMPED CONDENSATE UP AND TO JANITORS SINK IN JANITOR 104 ABOVE.
7. REFRIGERANT PIPING DOWN FROM CONDENSING UNIT ON ROOF.
8. 12x8 OSA DUCT DOWN FROM ROOF.

M1 Basement Mechanical Floor Plan

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

Plan North

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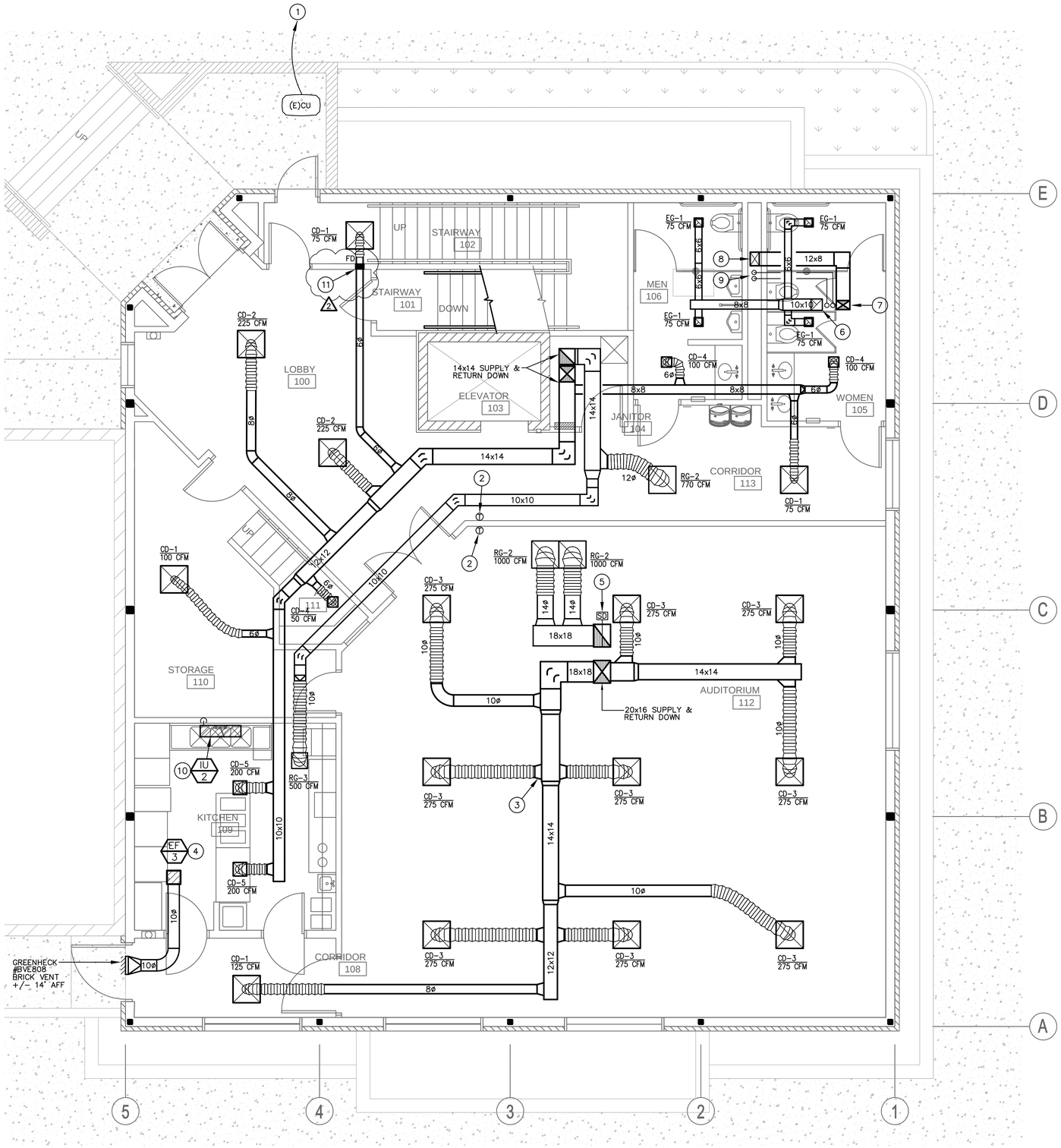
DRAWING: Basement Mechanical Floor Plan

PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ, 86301

APN: 109-02-035

DRAWN BY	
CHECKED BY	
DATE	July 3rd, 2018
JOB NO.	710
SHEET	M1.1

Jul 03, 2018 - 1:36pm



KEYNOTES

1. RELOCATE EXISTING CONDENSING UNIT SERVING BUILDING TO THE NORTH APPROXIMATELY 25'. EXTEND REFRIGERANT PIPING, ELECTRICAL AND CONTROL WIRING AS REQUIRED. REFER TO ARCHITECTURAL SITE PLAN.
2. HEATING/COOLING PROGRAMMABLE THERMOSTAT ON WALL AT 48" ABOVE FINISHED FLOOR. VERIFY EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECT/OWNER.
3. BRANCH TAKE-OFFS ABOVE CEILING SHALL HAVE SPIN-IN FITTINGS WITH BALANCING DAMPER AND FLEX DUCT RUNOUT TO DIFFUSER. BALANCE TO CFM SHOWN. FLEX DUCT SHALL NOT EXCEED 8'-0" IN LENGTH. SIZE TO CORRESPOND WITH INLET NECK OF DIFFUSER. (TYPICAL).
4. CEILING MOUNTED EXHAUST FAN WITH BACKDRAFT DAMPER. TRANSITION EXHAUST DUCT FROM UNIT DISCHARGE AND ROUTE DUCT TO MANUFACTURER'S WALL DISCHARGE.
5. INSTALL SMOKE DETECTOR IN RETURN AIR DUCT FOR AUTO SHUT-OFF UPON DETECTION OF SMOKE AS PER SECTION 606, 2012 IMC. SMOKE DETECTOR SHALL BE DOWN STREAM OF ANY FILTER OR OSA. IF A FIRE ALARM SYSTEM EXISTS, THE DUCT SMOKE DETECTOR(S) SHALL BE CONNECTED TO THE FIRE ALARM SYSTEM (IMC 606.4.1). IF NO FIRE ALARM SYSTEM EXISTS, PROVIDE VISIBLE AND AUDIBLE SUPERVISORY SIGNAL AT A CONSTANTLY SUPERVISED LOCATION TRIGGERED BE THE ACTIVATION OF A DUCT SMOKE DETECTOR. (IMC 606.4.1, EXCEPTION 2). DETECTOR PROVIDED AND WIRED BY FIRE ALARM CONTRACTOR.
6. 10x10 EXHAUST DUCT UP THROUGH 2ND FLOOR CHASE TO ROOF MOUNTED EXHAUST FAN, EF-2.
7. 12x8 OSA DUCT DOWN FROM 2ND FLOOR.
8. 12x8 OSA DUCT DOWN TO BASEMENT LEVEL.
9. REFRIGERANT PIPING DOWN FROM CONDENSING UNIT ON ROOF AND TO BASEMENT LEVEL.
10. MINI SPLIT FAN COIL UNIT MOUNTED ON WALL AT APPROX. 84" A.F.F. ROUTE CONDENSATE CONCEALED IN WALL AND TO FLOOR SINK OR SINK TAIL PIECE.
11. PROVIDE AND INSTALL FIRE DAMPER AT PENETRATION OF RATED WALL. PROVIDE WITH WALL SLEEVE AS REQUIRED PER MANUFACTURER AND ACCESS DOOR.

M1 First Floor Mechanical Plan

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

North

REVISIONS	BY
2 City Comments Jan. 02, 2019	WMO

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DRAWING: First Floor Mechanical Plan

PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
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APN: 109-02-035

DRAWN BY

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DATE
July 3rd, 2018

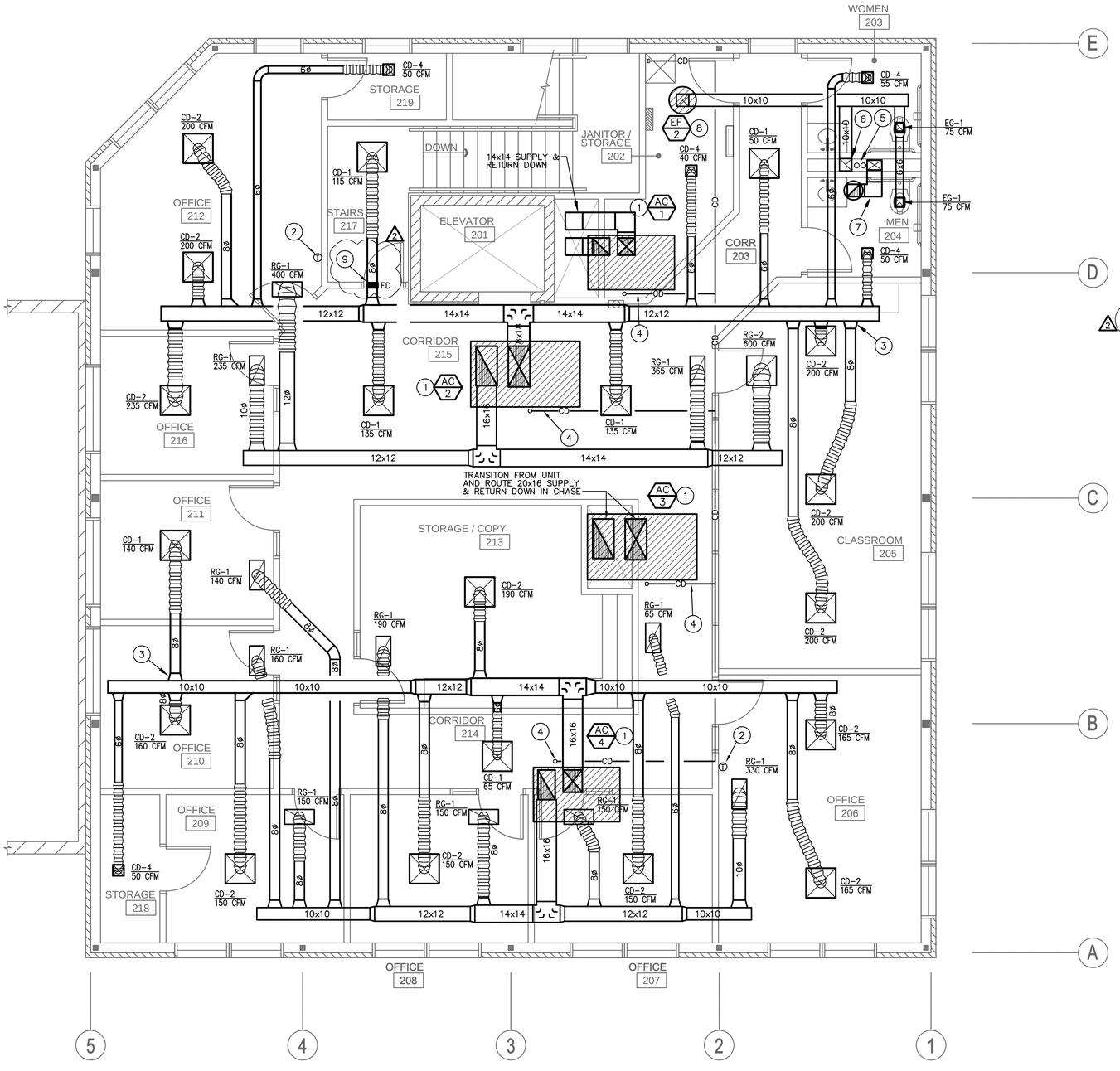
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M1.2

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KEYNOTES

1. ROOF MOUNTED PACKAGED A/C UNIT ON NEW 8" ROOF CURB. EXTEND SUPPLY AND RETURN AIR DUCTS DOWN THROUGH ROOF OR HORIZONTALLY ON ROOF AS SHOWN. PROVIDE CLEARANCES PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE FINAL LOCATION WITH EXISTING CONDITIONS AND ARCHITECT PRIOR TO COMMENCING WORK.
2. HEATING/COOLING PROGRAMMABLE THERMOSTAT ON WALL AT 48" ABOVE FINISHED FLOOR. VERIFY EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECT/OWNER.
3. BRANCH TAKE-OFFS ABOVE CEILING SHALL HAVE SPIN-IN FITTINGS WITH BALANCING DAMPER AND FLEX DUCT RUNOUT TO DIFFUSER. BALANCE TO CFM SHOWN. FLEX DUCT SHALL NOT EXCEED 8'-0" IN LENGTH. SIZE TO CORRESPOND WITH INLET NECK OF DIFFUSER. (TYPICAL).
4. EXTEND 3/4" TYPE 'M' COPPER CONDENSATE DRAIN PIPING FROM UNIT CONNECTION AND ROUTE TO JANITOR SINK. SLOPE ALL DRAIN PIPING AT A MINIMUM 1/8" PER FOOT TOWARD DISCHARGE LOCATION.
5. REFRIGERANT PIPING DOWN FROM CONDENSING UNIT ON ROOF AND TO BASEMENT LEVEL.
6. 10x10 EXHAUST DUCT DOWN IN CHASE TO 1ST FLOOR.
7. 12x8 OSA DUCT DOWN OSA ROOF INTAKE AND DOWN IN CHASE TO BASEMENT.
8. ROOF MOUNTED CENTRIFUGAL EXHAUST FAN ON NEW 8" CURB.
9. PROVIDE AND INSTALL FIRE DAMPER AT PENETRATION OF RATED WALL. PROVIDE WITH WALL SLEEVE AS REQUIRED PER MANUFACTURER AND ACCESS DOOR.

M1 Second Floor Mechanical Plan

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

North

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REVISIONS	BY
2 City Comments Jan. 02, 2019	WMO

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DRAWING: Second Floor Mechanical Plan

PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
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APN: 109-02-035

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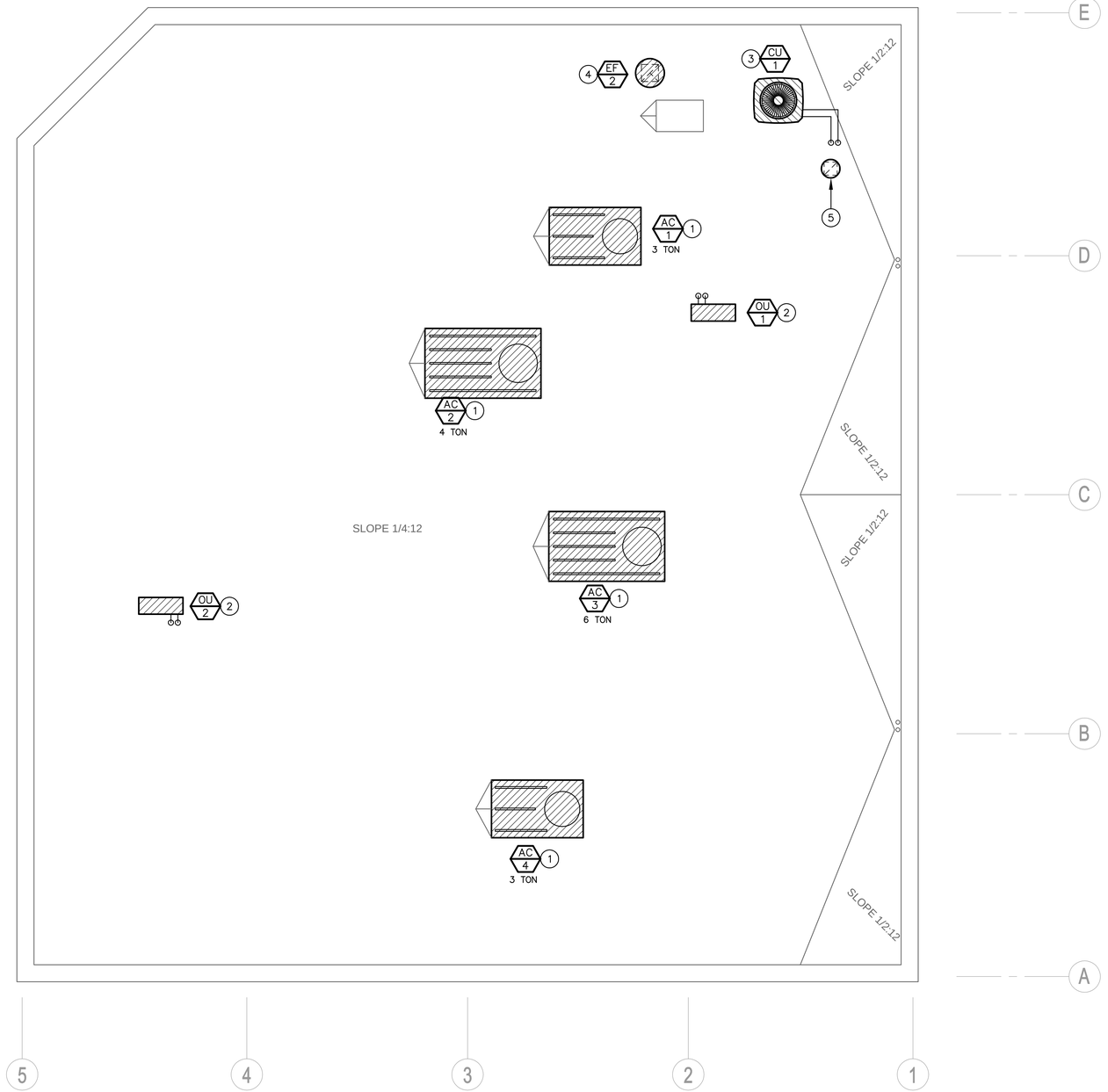
DATE
July 3rd, 2018

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M1.3

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KEYNOTES

1. ROOF MOUNTED PACKAGED A/C UNIT ON NEW 8" ROOF CURB. EXTEND SUPPLY AND RETURN AIR DUCTS DOWN THROUGH CURB. PROVIDE CLEARANCES PER MANUFACTURER'S RECOMMENDATIONS.
2. MINI SPLIT CONDENSING UNIT MOUNTED ON PRE MANUFACTURED PAD. SLEEVE REFRIGERANT PIPING THROUGH ROOF TO INDOOR UNIT.
3. CONDENSING UNIT MOUNTED ON PRE MANUFACTURED PAD. SLEEVE REFRIGERANT PIPING THROUGH ROOF AND ROUTE DOWN IN WALLS TO BASEMENT TO IU-1.
4. ROOF MOUNTED CENTRIFUGAL EXHAUST FAN ON NEW 8" CURB.
5. GREENKECK #GRSI-10 INTAKE HOOD WITH CURB.

M1 Roof Mechanical Plan

Scale: 1/4"=1'-0" North

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ARCHITECTURE & PLANNING

DRAWING: Roof Mechanical Plan

PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
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APN: 109-02-035

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SHEET	M1.4

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Jul 03, 2018 - 1:36pm

DUCT CONSTRUCTION NOTES

1 – ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH "ASHRAE GUIDE" AND "SMACNA STANDARDS" AND IN CONFORMANCE WITH REQUIREMENTS OF LOCAL BUILDING, MECHANICAL AND ENERGY CONSERVATION CODES. WHERE MORE THAN ONE REGULATION OR CODE APPLIES, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.

2 – FLEXIBLE DUCTWORK SHALL COMPLY WITH THE CLASS 1 REQUIREMENTS OF THE NFPA BULLETIN NO. 90A AND SHALL BE INSULATED WITH 1" FIBERGLASS, SUPPORTED BY HELICALLY WOUND STEEL WIRE WITH REINFORCED METALIZED OUTER JACKET RATED FOR USE IN PLENUMS. ATTACHMENT SHALL BE WITH WORM DRIVE CLAMPS. LENGTH SHALL NOT EXCEED 10'–0", EXCEPT AS APPROVED BY ARCHITECT.

3 – PROVIDE MANUAL BALANCING DAMPER AT EACH BRANCH DUCT TAKE OFF.

4 – ALL DUCTWORK JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS AND CONNECTION ON DUCTWORK SHALL BE LISTED AND LABELED BY UL 181A OR 181B TAPES AND MASTICS.

5 – ALL AIR SUPPLY AND RETURN DUCTS LOCATED IN CONDITIONED SPACES OR UNCONDITIONED SPACES SEPARATED FROM BUILDING EXTERIOR SHALL HAVE A MIN. R–5 INSULATION VALUE. ALL AIR SUPPLY AND RETURN DUCTS LOCATED IN UNCONDITIONED SPACES NOT SEPARATED FROM BUILDING EXTERIOR SPACES OR EXTERIOR DUCTS SHALL HAVE A MIN. R–8 INSULATION.

6 – PROVIDE RADIUS ELBOWS, TURNING VANES, AND SPLITTER DAMPERS IN BRANCHES AND EXTRACTORS WHERE APPLICABLE.

7 – TURNING VANES SHALL BE INSTALLED IN ALL MITERED ELBOWS.

8 – BRANCH DUCT SERVING DIFFUSERS SHALL BE SIZE AS INDICATED. PROVIDE INCREASER OR SHEET METAL PLENUM TO CONNECT TO DIFFUSER AS REQUIRED.

9 – ALL DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS. IF DUCT LINER IS USED FOR INSULATION, CONTRACTOR SHALL INCREASE DUCT SIZE ACCORDINGLY.

10 – HANGERS FOR SHEET METAL DUCTWORK SHALL BE INSTALLED AS REQUIRED BY 2012 IMC.

COORDINATION NOTES

1 – COORDINATE OPENING'S FOR GRILLES, REGISTERS, DIFFUSERS AND DUCTWORK WITH FRAMING CONTRACTOR PRIOR TO ROUGH–IN.

2 – COORDINATE EXACT LOCATION OF ALL GRILLES, REGISTERS AND DIFFUSERS WITH ARCHITECTURAL PLANS.

3 – LIGHTING & SPRINKLER HEADS TAKE PRECEDENCE OVER DIFFUSER LOCATION. CONTRACTOR SHALL MAKE NECESSARY ADJUSTMENTS TO DIFFUSERS TO AVOID ANY CONFLICT WITH LIGHTING LAYOUT & SPRINKLER HEADS.

4 – CONTRACTOR TO COORDINATE THERMOSTAT LOCATIONS WITH OWNER & ARCHITECT PRIOR TO MOUNTING.

5 – ALL THERMOSTATS ARE TO BE MOUNTED AT A HEIGHT OF 48" TO 54" ABOVE THE FLOOR LEVEL FOR DISABLED ACCESS.

GENERAL REQUIREMENTS

1 – PROVIDE CLEARANCES AS PER MANUFACTURER'S RECOMMENDATIONS.

2 – PITCH CONDENSATE DRAIN LINE 1/8" PER 12" RUN TOWARDS TERMINATION. INSULATE IN CONDENSATE DRAIN LINE WITH 3/8" CLOSED CELL "ARMIFLEX" TUBE INSULATION, TO PREVENT CONDENSATE DRIP.

3 – PRIOR TO THE CONTRACTOR ORDERING OR SETTING ANY AIR CONDITIONING EQUIPMENT, DUCTWORK, OR AIR DEVICE, HE SHALL VERIFY LOCATION OF PLACEMENT WITH STRUCTURAL DRAWINGS AND CONFIRM WEIGHTS, DISCHARGE CONFIGURATION, SIZES, ELECTRICAL CHARACTERISTICS AND ANY OTHER DIMENSIONAL DATA WHICH MIGHT AFFECT THE SUCCESSFUL INSTALLATION OF THE EQUIPMENT.

4 – KEEP ALL VENTS THROUGH ROOF AND EXHAUST DISCHARGE DUCTS A MINIMUM OF 10'–0" FROM OUTSIDE AIR INTAKES OR WINDOWS AND FROM ALL VERTICAL PORTIONS OF THE BUILDING.

AC – PACKAGE ROOFTOP A/C W/ GAS HEAT SCHEDULE

EQUIP. NO.	SERVES	MANUFACTURER	NOMINAL TONS	MODEL NO.	CFM	OSA CFM	FAN HP	COOLING CAPACITY					HEATING (NAT. GAS)			VOLTS/ PHASE	MCA	MAX FUSE	MIN. SEER	WEIGHT LBS.	REMARKS
								TOTAL MBH	SENS. MBH	ENT. AIR TEMP DB (F)	ENT. AIR TEMP WB (F)	AMB. TEMP	INPUT	OUTPUT	A.F.U.E.						
AC–1	1ST MISC.	TRANE	3	YHC036E3	1350	174	3/4	37.0	27.9	80	67	95	100	82	81%	208/3	20.6	30	15	532	1 2 3 4 5 6 7 8
AC–2	2ND NORTH	TRANE	4	YHC048E3	1800	199	1	49.9	35.1	80	67	95	120	96	81%	208/3	27.2	40	15	763	1 2 3 4 5 6 7 8
AC–3	1ST AUD.	TRANE	6	YHC074F3	2400	695	1	72.0	54.9	80	67	95	150	121.5	81%	208/3	32.3	50	EER 13.1	1016	1 2 3 4 5 6 7 8 9
AC–4	2ND SOUTH	TRANE	3	YHC036E3	1350	109	3/4	37.0	27.9	80	67	95	100	82	81%	208/3	20.6	30	15	532	1 2 3 4 5 6 7 8

1. PROVIDE WITH FULL PERIMETER ROOF CURB SLOPED TO MATCH ROOF SLOPE.
2. EXTEND FULL SIZE TYPE "M" COPPER CONDENSATE DRAIN FROM UNIT AND SLOPE @ 1/8" PER FT. ON ROOF TO JANITOR'S SINK.
3. PROVIDE CLEARANCES AS PER MANUFACTURERS REQUIREMENTS.
4. PROVIDE ECONOMIZER W/ BAROMETRIC RELEIEF WITH ENTHALPY CONTROL.
5. PROVIDE TRANE #TCONT800 TOUCHSCREEN, PROGRAMMABLE, THERMOSTAT.
6. PROVIDE WITH FILTER FRAME AND 2 SETS OF FILTERS.
7. PROVIDE WITH LOW AMBIENT CONTROL.
8. PROVIDE WITH CRANK CASE HEATER.
9. UNIT SHALL HAVE DUAL COMPRESSORS.

FC – CU – SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE

FAN COIL UNIT											CONDENSING UNIT (95°AMBIENT)												
EQUIP. NO.	SERVES	MANUFACTURER	MODEL NO.	NOMINAL TONS	CFM	HEAT KW	EXT. S.P. IN WG	FAN H.P.	VOLTS/ PHASE	WEIGHT LBS	EQUIP. NO.	MANUFACTURER	MODEL NO.	MAX. AMPS (MCA)	MAX. FUSE (AMPS)	VOLTS/ PHASE	COOLING CAPACITY TOTAL	COOLING CAPACITY SENS.	ENT. AIR TEMP DB (F)	ENT. AIR TEMP WB (F)	MIN. SEER	HEATING CAPACITY 70 (F) EAT 37 (F) AMB.	MIN. HSPF	WEIGHT LBS	REMARKS
FC–1	BASEMENT	TRANE	TAM4A024	2	800	4	0.4	1/4	230/1	116	CU–1	TRANE	4TWX6024H1	15.0	25	230/1	20.0	19.0	78	63	15.75	18.5	8.2	257	SEE NOTES 7

1. INSTALL UNIT PER MANUFACTURER'S WRITTEN DIRECTIONS. SLEEVE PIPING PENETRATIONS THRU ROOF,
2. FAN COIL SHALL BE HORIZONTAL TYPE, WITH BOTTOM OR SIDE FLANGE FILTER AS REQUIRED. PROVIDE 1" FARR 30/30 PLEATED MEDIA FILTERS (1 REQUIRED).
3. PROVIDE 5–YEAR COMPRESSOR WARRANTY ON ALL COMPRESSORS.
4. PROVIDE UNIT COMPLETE WITH ALL NECESSARY DISCONNECTS, OVERLOADS AND CONTROL COMPONENTS.
5. PROVIDE LOW AMBIENT KIT FOR OPERATION DOWN TO 25°F.
6. FOLLOW MANUFACTURER'S LONG LINE INSTALLATION INSTRUCTIONS WHEN TOTAL EQUIVALENT LENGTH IS 80 FEET OR MORE, OR WHEN VERTICAL SEPARATION BETWEEN INDOOR AND OUTDOOR UNITS IS MORE THAN 20 FEET. REFRIGERANT PIPING SHALL BE UPSIZED AS REQUIRED TO LIMIT THE LOSS IN CAPACITY TO NO MORE THAN 4%.
7. PROVIDE WITH #BAYEAAC04 4 KW AUXILLERY HEATER.

CU – OU – DUCT FREE SPLIT SYSTEM

OUTDOOR UNIT									INDOOR UNIT						
EQUIP. NO.	MANUFACTURER	MODEL NO.	TYPE	MCA (1)	VOLTS/ PHASE	RATED COOLING CAPACITY	RATED HEATING CAPACITY	WEIGHT	EQUIP. NO.	MANUFACTURER	MODEL NO.	NOMINAL COOLING CAPACITY BTUH	VOLTS/ PHASE	WEIGHT	REMARKS
OU–1	FUJITSU	AOU18CL	A/C	16.0	208/230, 1ø	18,000	N/A	88 LBS	IU–1	FUJITSU	ASU18CL	18,000	208/230, 1ø	20 LBS	2 3 4 4
OU–2	FUJITSU	AOU24RLXFW	HEAT PUMP	15.5	208/230, 1ø	22,000	27,600	68 LBS	IU–2	FUJITSU	ASU24RFL	22,000	208/230, 1ø	31 LBS	2 3 4

1. COMBINED INDOOR/OUTDOOR UNIT AMPS.
2. PROVIDE LOW AMBIENT KIT FOR OPERATIONS DOWN TO 20°F.
3. PROVIDE REMOTE MOUNTED T–STAT.
4. SIZE AND INSTALL REFRIGERANT LINES AS RECOMMENDED BY MANUFACTURER'S WRITTEN INSTRUCTIONS. INSULATE PIPING WITH 1" INSULATION, PER IECC.
5. PROVIDE WITH CONDENSATE PUMP. ROUTE CONDENSATE TO JANTORS SINK IN "JANITORS 104".

GRILLES/REGISTERS/DIFFUSERS SCHEDULE

MARK	DESCRIPTION	MODULE SIZE	TYPE	OBD	FRAME	MATERIAL	FINISH	MANUF.	MODEL	REMARKS
CD–1	SUPPLY DIFFUSER	24" x 24"	SQUARE CEILING	NO	T–BAR	STEEL	WHITE	TITUS	TMS	6ø NECK
CD–2	SUPPLY DIFFUSER	24" x 24"	SQUARE CEILING	NO	T–BAR	STEEL	WHITE	TITUS	TMS	8ø NECK
CD–3	SUPPLY DIFFUSER	24" x 24"	SQUARE CEILING	NO	T–BAR	STEEL	WHITE	TITUS	TMS	10ø NECK
CD–4	SUPPLY DIFFUSER	9" x 9"	LOUVERED CEILING	NO	SURFACE	STEEL	WHITE	TITUS	TDC	6ø NECK
CD–5	SUPPLY DIFFUSER	12" x 12"	LOUVERED CEILING	NO	SURFACE	STEEL	WHITE	TITUS	TDC	8ø NECK
EG–1	RETURN GRILLE	8" x 8"	SINGLE DEFLECTION	NO	SURFACE	STEEL	WHITE	TITUS	350RL	
SG–1	SUPPLY GRILLE	12" x 6"	DOUBLE DEFLECTION	NO	SURFACE	STEEL	WHITE	TITUS	300RS	
RG–1	RETURN GRILLE	24" x 24"	SINGLE DEFLECTION	NO	T–BAR	STEEL	WHITE	TITUS	350RL	PROVIDE SHEET METAL PLENUM PAINTED FLAT BLACK
RG–2	RETURN GRILLE	24" x 12"	SINGLE DEFLECTION	NO	T–BAR	STEEL	WHITE	TITUS	350RL	PROVIDE SHEET METAL PLENUM PAINTED FLAT BLACK
RG–3	RETURN GRILLE	18" x 18"	SINGLE DEFLECTION	NO	SURFACE	STEEL	WHITE	TITUS	350RL	PROVIDE SHEET METAL PLENUM PAINTED FLAT BLACK

NOTES:

1. NECK SIZE SHOWN ON PLANS AND CORRESPONDS TO DUCT CONNECTION SIZE.
2. CONTRACTOR SHALL PROVIDE SQUARE TO ROUND ADAPTERS AS REQUIRED FOR INSTALLATION.
3. MOUNTING HEIGHT OF GRILLES AND EXACT LOCATION OF ALL DIFFUSERS TO FIELD COORDINATED AND APPROVED BY OWNER.
4. VERIFY MAKE, MODEL AND COLOR OF ALL DEVICES WITH OWNER.

EF – EXHAUST FAN SCHEDULE

MARK	SERVES	MANUF.	MODEL	CFM	E.S.P. (in. wg)	MOTOR HP OR WATTS	MOTOR V/PH	DRIVE	SONES	WEIGHT LBS	REMARKS
1	KITCHEN 109	GREENHECK	SP–A290	250	0.25"	81 WATTS	120/1	DIRECT	3.0	24	1 2
2	TOILETS	GREENHECK	G–90–VG	450	0.25"	1/10 HP	120/1	DIRECT	5.6	24	3 4 5

1. UNIT TO OPERATE VIA WALL SWITCH
2. PROVIDE BRICK VENT WALL DISCHARGE #BVE157
3. PROVIDE 8" CURB, SLOPED TO MATCH ROOF.
4. UNIT TO OPERATE CONTINUOUSLY.
5. PROVIDE WITH DISCONNECT.

H – HUMIDIFIER SCHEDULE

EQUIP. NO.	SERVICE/ LOCATION	MANUFACTURER	MODEL NO.	CFM	VOLTS/ PHASE	AMPS	MOCP	WEIGHT	REMARKS
1	STORAGE 001	NORTEC	EL 30 208/3	110	208/3	31.1	40	45	1 2 3 4
2	STORAGE 001	NORTEC	EL 30 208/3	110	208/3	31.1	40	45	1 2 3 4

1. PROVIDE WITH NORTEC DIGITAL. MODULATING WALL HUMIDISTAT WITH 0–10V CONTROL VOLTAGE.
2. PROVIDE WITH ADJUSTABLE HUMIDIFICATION CAPACITY OF 20–100%
3. PROVIDE WITH 24 VOLT CONTROL VOLTAGE, LCD GRAPHIC DISPLAY, REAL TIME CLOCK, OPERATING STATUS (IN HOURS), CYLINDER OPERATING STATUS (IN HOURS), CONTINUOUS SELF DIAGNOSTICS, AUTO DRAIN AND 2 YEAR WARRANTY.
4. PROVIDE WITH BUILT–ON BLOWER PACK AND BLOWER PACK POWER.

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Registered Professional Engineer (Fire Protection) 33491 WILLIAM MARK ODELL Date Signed 10/29/18 ARIZONA U.S.A. Expires 3/31/19

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ARCHITECTURE & PLANNING

DRAWING: Mechanical Schedules

PROJECT: Sharlot Hall Education Center Addition, 415 W. Gurley St, Prescott, AZ. 86301

APN: 109-02-035

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CHECKED BY

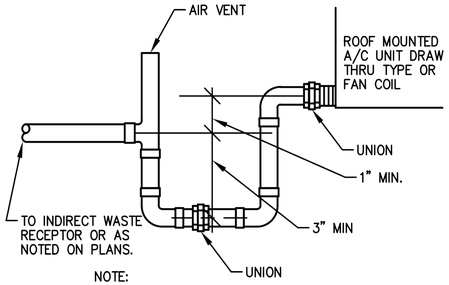
DATE July 3rd, 2018

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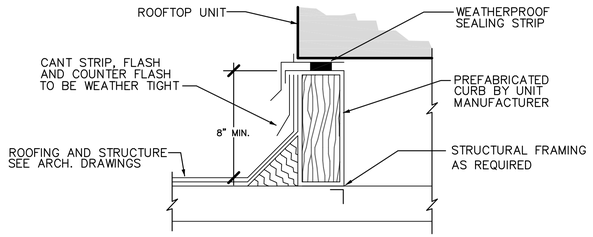
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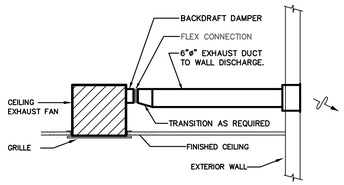


NOTE:
DRAIN PIPING TO BE MIN. UNIT CONNECTION SIZE. LARGER UNITS (25 TON AND ABOVE) SHALL HAVE DRAIN PIPING (1) PIPE SIZE LARGER THAN DRAIN CONNECTION.

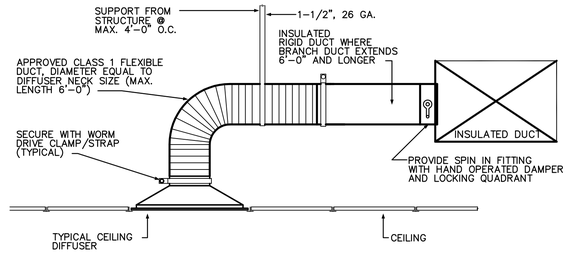
CONDENSATE DRAIN TRAP
NOT TO SCALE — 4 / M3.1



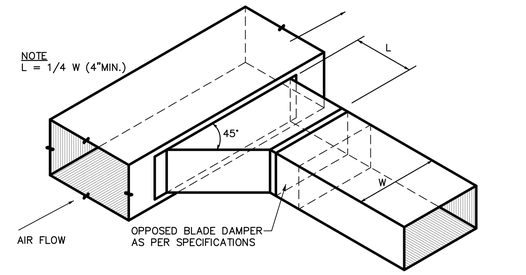
HEAT PUMP UNIT MOUNTING DETAIL
NOT TO SCALE — 1 / M3.1



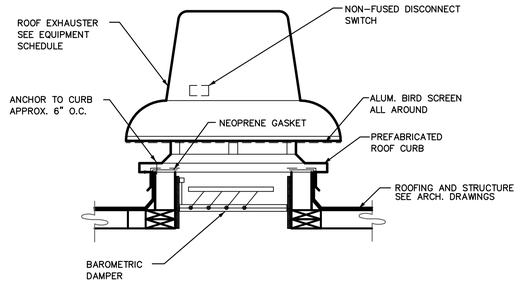
CEILING MOUNTED EXHAUST FAN DETAIL
NOT TO SCALE — 7 / M3.1



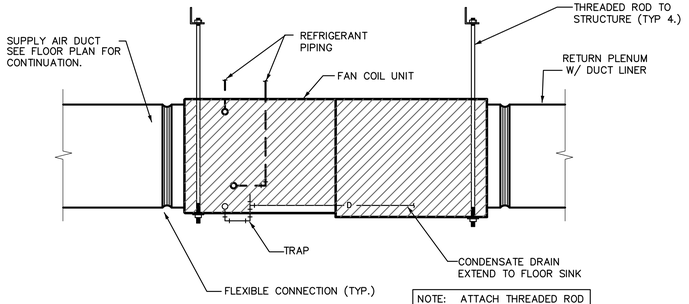
BRANCH DUCT TAKE-OFF DETAIL
NOT TO SCALE — 5 / M3.1



BRANCH DUCT TAKE-OFF DETAIL
NOT TO SCALE — 2 / M3.1

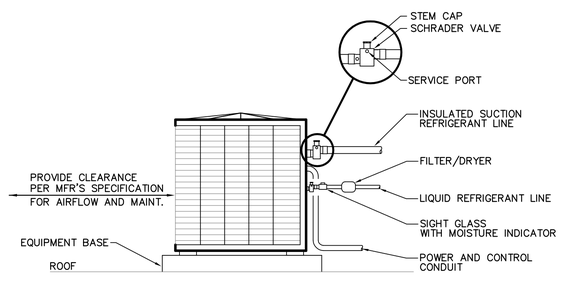


EXHAUST FAN DETAIL
NOT TO SCALE — 8 / M3.1



NOTE: ATTACH THREADED ROD TO STRUCTURE WITH UL LISTED MOUNTING HARDWARE. PROVIDE INTERMEDIATE FRAMING AN/OR CROSS BRACING AS REQUIRED.

HORIZONTAL FAN COIL DETAIL
NOT TO SCALE — 6 / M3.1



CONDENSING UNIT DETAIL
NOT TO SCALE — 3 / M3.1

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ARCHITECTURE & PLANNING

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APN: 109-02-035

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OUTSIDE AIR CALC

Outside Air for unit AC-1

Space	Area	Occ Density	Rp	Pz	Ra	Az	Vbz
Kitchen	229	25	5	5.725	0.06	229	42.4
Lobby	364	10	5	3.64	0.06	364	40.0
Storage	543	0	0	0	0.12	543	65.2
Corridors	435	0	0	0	0.06	435	26.1
					Total Net OSA Required		174

Balance AC-1 for 174 CFM

Outside Air for unit AC-2

Space	Area	Occ Density	Rp	Pz	Ra	Az	Vbz
Office	808	5	5	4.04	0.06	808	68.7
Classroom	347	25	5	8.675	0.12	347	85.0
Corridors	283	0	0	0	0.06	283	17.0
Storage	238	0	0	0	0.12	238	28.6
					Total Net OSA Required		199

Balance AC-2 for 199 CFM

Outside Air for unit AC-3

Space	Area	Occ Density	Rp	Pz	Ra	Az	Vbz
Audutorium	1,210	100	5	121	0.06	1210	677.6
Corridors	290	0	0	0	0.06	290	17.4
					Total Net OSA Required		695

Balance AC-3 for 695 CFM

Outside Air for unit AC-4

Space	Area	Occ Density	Rp	Pz	Ra	Az	Vbz
Office	1,074	5	5	5.37	0.06	1074	91.3
Storage	40	0	0	0	0.12	40	4.8
Corridors	219	0	0	0	0.06	219	13.1
					Total Net OSA Required		109

Balance AC-4 for 109 CFM

6.2.2.1 Breathing Zone Outdoor Airflow. The design outdoor airflow required in the *breathing zone* of the occupiable space or spaces in a *zone*, i.e., *the breathing zone outdoor airflow* (V_{bz}), shall be determined in accordance with Equation 6-1.

$$V_{bz} = R_p \cdot P_z + R_a \cdot A_z \qquad (6\text{-}1)$$

where

A_z = *zone floor area*: the net occupiable floor area of the *zone* m^2 (ft^2)

P_z = *zone population*: the largest number of people expected to occupy the zone during typical usage. If the number of people expected to occupy the zone fluctuates, P_z may be estimated based on averaging approaches described in Section 6.2.6.2

Note: If P_z cannot be accurately predicted during design, it shall be an estimated value based on the zone floor area and the default occupant density listed in Table 6-1.

R_p = outdoor airflow rate required per person as determined from Table 6-1

Note: These values are based on adapted occupants.

R_a = outdoor airflow rate required per unit area as determined from Table 6-1

MECHANICAL SPECIFICATIONS

GENERAL REQUIREMENTS
GENERAL PROVISIONS WHICH MAKE SPECIFIC REFERENCE TO ELECTRICAL DIVISION ONLY ARE INCLUDED HEREIN FOR CLARITY AND SIMPLIFICATION OF SPECIFICATIONS WRITING AND ARE NOT PART OF THE MECHANICAL WORK. THE WORK OF DIVISION 15, MECHANICAL, IS SUBJECT TO THE CONDITIONS OF THE CONDITIONS OF THE CONTRACT, DIVISION 1, GENERAL REQUIREMENTS, AND APPLICABLE REQUIREMENTS OF OTHER PORTIONS OF THE CONTRACT DOCUMENTS. EXAMINE AND BECOME FAMILIAR WITH ALL CONTRACT DOCUMENTS AND COORDINATE THE MECHANICAL WORK ACCORDINGLY.

INTENT
IT IS THE INTENTION OF THE SPECIFICATIONS AND DRAWINGS TO CALL FOR FINISHED WORK, TESTED AND READY FOR OPERATION. ANY APPARATUS, APPLIANCE, MATERIAL OR WORK NOT SHOWN ON THE DRAWINGS, BUT MENTIONED IN THE SPECIFICATIONS OR VICE VERSA, OR ANY INCIDENTAL ACCESSORIES NECESSARY TO MAKE THE WORK COMPLETE AND READY FOR OPERATION, EVEN IF NOT PARTICULARLY SPECIFIED, SHALL BE PROVIDED WITHOUT ADDITIONAL EXPENSE TO THE OWNER. SHALL THERE APPEAR TO BE DISCREPANCIES OR QUESTIONS OF INTENT IN THE CONTRACT. DOCUMENTS, REFER THE MATTER TO THE ARCHITECT FOR HIS DECISION BEFORE ORDERING ANY MATERIALS OR EQUIPMENT OR BEFORE THE START OF ANY RELATED WORK. THE DECISION OF THE ARCHITECT SHALL BE FINAL, CONCLUSIVE AND BINDING.

DRAWINGS AND DATA
DRAWINGS ARE GENERALLY DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE OF WORK AND TO INDICATE GENERAL ARRANGEMENT OF EQUIPMENT, DUCTS, CONDUITS, PIPING AND FIXTURES. THEY ARE NOT INTENDED TO SHOW EVERY OFFSET OR FITTINGS OR EVERY STRUCTURAL DIFFICULTY THAT MAY BE ENCOUNTERED DURING INSTALLATION OF THE WORK. LOCATION OF ALL ITEMS NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. EXACT LOCATIONS NECESSARY TO SECURE BEST CONDITIONS AND RESULTS MUST BE DETERMINED AT PROJECT AND SHALL HAVE OVAL OF ARCHITECT BEFORE BEING INSTALLED. DO NOT SCALE DRAWINGS. IF SO DIRECTED BY ARCHITECT, WITHOUT EXTRA CHARGE, MAKE REASONABLE MODIFICATIONS IN LAYOUT AS NEEDED TO PREVENT CONFLICT WITH WORK OF OTHER TRADES OR FOR PROPER EXECUTION OF WORK. INCLUDE MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR PROPER INSTALLATION AND OPERATION OF A SYSTEM OR PIECE OF EQUIPMENT IN BID PRICE.

CODES
INCLUDE IN WORK, WITHOUT EXTRA COST TO OWNER, LABOR, MATERIALS, SERVICES, APPARATUS, DRAWINGS (IN ADDITION TO CONTRACT DRAWINGS AND DOCUMENTS) REQUIRED TO COMPLY WITH APPLICABLE LAWS, ORDINANCES, RULES AND REGULATIONS. DRAWINGS AND SPECIFICATIONS TAKE PRECEDENCE WHEN THEY ARE MORE STRINGENT THAN CODES, ORDINANCES, STANDARDS AND STATUTES. CODES, ORDINANCES, STANDARDS AND STATUES TAKE PRECEDENCE WHEN THEY ARE MORE STRINGENT OR CONFLICT WITH DRAWINGS OR SPECIFICATIONS. FOLLOWING INDUSTRY STANDARDS, SPECIFICATIONS AND CODES ARE MINIMUM REQUIREMENTS:

A. APPLICABLE CITY, COUNTY, AND STATE MECHANICAL, ELECTRICAL, GAS, PLUMBING, HEALTH AND SANITARY CODES, LAWS AND ORDINANCES.
B. 2012 INTERNATIONAL MECHANICAL CODE WITH LOCAL AMENDMENTS.
C. REGULATIONS, PERMITS, INSPECTIONS: COMPLY WITH ALL APPLICABLE CODED, RULES AND REGULATIONS. ALL MATERIALS, EQUIPMENT AND WORK MUST CONFORM TO THE UNIFORM MECHANICAL CODE. OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND LICENSES. WHEN REQUIRED BY CODE, ALL WORK MUST BE INSPECTED AND APPROVED BY LOCAL AUTHORITIES.

GENERAL
MATERIALS AND EQUIPMENT STANDARD PRODUCTS OF A REPUTABLE MANUFACTURER REGULARLY ENGAGED IN MANUFACTURE OF THE SPECIFIED ITEMS. WHERE MORE THAN ONE UNIT IS REQUIRED OF ANY ITEM, FURNISHED BY THE SAME MANUFACTURER, EXCEPT WHERE SPECIFIED OTHERWISE. INSTALL MATERIAL AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. SHOULD VARIANCE BETWEEN PLANS AND SPECIFICATIONS OCCUR WITH THESE, CONTACT ARCHITECT IMMEDIATELY SO THAT VARIATIONS IN INSTALLATION CAN BE KNOWN BY ALL PARTIES CONCERNED. PROVIDE EQUIPMENT FROM MANUFACTURER WHOSE PRODUCTS HAVE LOCAL REPRESENTATION.

EXECUTION
PROTECT EXISTING ACTIVE SERVICES (WATER, GAS, SEWER, ELECTRIC) WHEN ENCOUNTERED, AGAINST DAMAGE FROM CONSTRUCTION WORK. DO NOT PREVENT OR DISTURB OPERATION OF ACTIVE SERVICES WHICH ARE TO REMAIN. IF WORK MAKES TEMPORARY SHUTDOWNS OF SERVICES UNAVOIDABLE, CONSULT WITH OWNER AS TO DATES, PROCEDURES, AND ESTIMATED DURATION OF AT LEAST 10 WORKING DAYS IN ADVANCE OF DATE WHEN WORK IS TO BE PERFORMED. ARRANGE WORK FOR CONTINUOUS PERFORMANCE TO ASSURE THAT EXISTING OPERATING SERVICES WILL BE SHUT DOWN ONLY DURING THE TIME REQUIRED TO MAKE NECESSARY CONNECTIONS. IF A SYSTEM CANNOT SHUT DOWN, INSTALL TEMPORARY BYPASSES OR JUMPERS UNTIL CONNECTIONS ARE COMPLETE. CONTRACTOR RESPONSIBLE FOR ALL COSTS INCURRED BY ABOVE SHUTDOWNS, INCLUDING BYPASS OR JUMPER INSTALLATIONS, FOR WORK PERFORMED UNDER THIS SECTION. IF EXISTING ACTIVE UTILITY SERVICES ARE ENCOUNTERED WHICH REQUIRE RELOCATION, MAKE REQUEST TO PROPER AUTHORITIES FOR DETERMINATION OF PROCEDURES. PROPERLY TERMINATE EXISTING SERVICES TO BE ABANDONED IN CONFORMANCE WITH REQUIREMENTS OF AUTHORITIES. WHERE CONNECTIONS OR DISRUPTIONS ARE MADE TO EXISTING SYSTEMS, REACTIVATE, REFILL, AND RECHARGE ALL COMPONENTS AND RESTORE SYSTEMS TO OPERATING CONDITIONS AT TIME OF DISRUPTION.

GUARANTEE
EACH COMPLETE SYSTEM GUARANTEED BY CONTRACTOR FOR A PERIOD OF ONE YEAR, FROM DATE OF ACCEPTANCE OF WORK BY OWNER IN WRITING, TO BE FREE OF DEFECTS OF MATERIALS AND WORKMANSHIP, AND TO PERFORM SATISFACTORILY UNDER ALL CONDITIONS OF LOAD OR SERVICE. THE GUARANTEES PROVIDE THAT ANY ADDITIONAL CONTROLS, PROTECTIVE DEVICES, OR EQUIPMENT BE PROVIDED AS NECESSARY TO MAKE THE SYSTEM OF EQUIPMENT OPERATE SATISFACTORILY, AND THAT ANY FAULTY MATERIALS OR WORKMANSHIP BE REPLACED OR REPAIRED. ON FAILURE OF GUARANTOR TO DO THE ABOVE AFTER WRITTEN NOTICE FROM OWNER, THE OWNER MAY HAVE THE WORK DOWN AT THE COST OF GUARANTOR. LOSS OF REFRIGERANT IS CONSIDERED A DEFECT IN WORKMANSHIP AND/OR EQUIPMENT, TO BE CORRECTED AS REQUIRED AT NO EXTRA COST TO THE OWNER.

PROVIDE EXTENDED FIVE (5) YEAR FACTORY PARTS & LABOR WARRANTY ON ALL AIR CONDITIONING COMPRESSORS.

AIR CONDITIONING, HEATING AND VENTILATING

SCOPE
WORK UNDER THIS SECTION INCLUDES FURNISHING ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY FOR THE REMODELING, INSTALLATION AND PLACING INTO OPERATION THE HEATING, VENTILATING AND AIR CONDITIONING WORK AS SPECIFIED HEREIN AND INDICATED ON THE DRAWINGS.

VERIFICATION OF DIMENSIONS:
SCALED AND FIGURED DIMENSIONS ARE APPROXIMATE ONLY. BEFORE PROCEEDING WITH WORK, CAREFULLY CHECK AND VERIFY AT THE SITE, AND RESPONSIBLE FOR PROPERLY FITTING EQUIPMENT AND MATERIALS TOGETHER AND TO THE STRUCTURE IN SPACES PROVIDED. DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND MANY OFFSETS, BENDS, SPECIAL FITTINGS AND EXACT LOCATIONS ARE NOT INDICATED. CAREFULLY STUDY DRAWINGS AND PREMISES I ORDER TO DETERMINE BEST METHODS, EXACT LOCATIONS, ROUTES AND BUILDING OBSTRUCTIONS, PRESERVE HEADROOM, AND KEEP OPENINGS AND PASSAGEWAYS CLEAR.

CUTTING AND PATCHING:
CUT EXISTING WORK AND PATCH AS NECESSARY TO PROPERLY INSTALL THE NEW WORK. AS THE WORK PROGRESSES, LEAVE NECESSARY OPENINGS, HOLES AND CHASES, ETC., IN THEIR CORRECT LOCATIONS. IF THE REQUIRED OPENINGS, HOLES AND CHASES ETC., ARE NOT IN THEIR CORRECT LOCATIONS, MAKE THE NECESSARY CORRECTIONS AT NO COST TO THE OWNER. AVOID EXCESSIVE CUTTING AND DO NOT CUT STRUCTURAL MEMBERS WITHOUT CONSENT OF ARCHITECT.

REGULATIONS, PERMITS & INSPECTIONS
COMPLY WITH ALL APPLICABLE CODES, RULES AND REGULATIONS. ALL MATERIALS, EQUIPMENT AND WORK MUST CONFORM TO THE INTERNATIONAL MECHANICAL CODE. OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND LICENSES. WHEN REQUIRED BY CODE, ALL WORK MUST BE INSPECTED AND APPROVED BY LOCAL AUTHORITIES.

DUCTWORK
ALL DUCTWORK FABRICATED AS PER LATEST INTERNATIONAL MECHANICAL CODE REQUIREMENTS AND SMACNA MANUAL. EXTENSION OF EXISTING DUCTWORK SHALL BE MADE WITH SOME MATERIAL. DUCTWORK SHALL BE CONSTRUCTED OF NEW HOT-DIPPED GALVANIZED SHEET METAL ASTM A-120 FOR EACH SIDE, WITH 1". 1 1/2 LB. DENSITY DUCT LINER. TAPE ALL CROSS-JOINTS IN SHEET METAL DUCT WITH HARDCAST. TAKE-OFF FITTINGS SHALL BE CONICAL SPIN-IN WITH QUADRANT DAMPER. TURNING VANES SHALL BE INSTALLED IN ALL MITERED ELBOWS.

FLEXIBLE DUCT
FLEXIBLE DUCT MAY BE USED FOR FINAL CONNECTION TO AIR DISTRIBUTION DEVICES, BUT SHALL NOT EXCEED 6 FEET IN LENGTH. FLEXIBLE DUCT SHALL HAVE A MINIMUM R-8 INSULATION VALUE.

DUCT INSULATION
DUCT SIZES ON DRAWINGS ARE "CLEAR INSIDE." INCREASE SHEET METAL SIZES ACCORDINGLY FOR LINED DUCTWORK. ADHESIVE AND INSULATING MATERIALS SHALL HAVE COMPOSITE FIRE AND SMOKE HAZARD RATINGS MAXIMUM 25 FOR FLAME SPREAD AND 50 FOR SMOKE DEVELOPED. ADHESIVES SHALL BE WATERPROOF.

DUCT INSULATION SCHEDULE:
CONCEALED RECTANGULAR LINED
CONCEALED ROUND LINED

DUCTS IN CONDITIONED SPACE OR UNCONDITIONED SPACE SEPARATED FROM BUILDING EXTERIOR :
RECTANGULAR LINED DUCTWORK – SEMI-RIGID GLASS FIBER INSULATION, 1 1/2 PCF,
1 1/2" THICK, THERMAL CONDUCTIVITY AT 75°. MAXIMUM 0.17 BTU/IN./SQ. FT./DEG./HR. MINIMUM "R-VALUE" SHALL BE 6.0.

DUCTS IN UNCONDITIONED SPACE OR EXTERIOR:
LINED DUCTWORK – SEMI-RIGID GLASS FIBER INSULATION, 1 1/2 PCF, 2" THICK, THERMAL CONDUCTIVITY AT 75°. MAXIMUM 0.13 BTU/IN./SQ. FT./DEG./HR. MINIMUM "R-VALUE" SHALL BE 8.0.

EXTERIOR DUCT SHALL BE SEALED WATER TIGHT.

DYNAMIC CURTAIN TYPE FIRE DAMPERS.
FIRE DAMPERS SHALL HAVE A RATING OF 1½ HOURS IN ACCORDANCE WITH UL 555. DAMPERS SHALL BE CLASSIFIED FOR DYNAMIC CLOSURE TO 2000 FPM AND 4 INCHES W.G.
FRAME: MAXIMUM 5 INCH ROLL FORMED, GALVANIZED STEEL CHANNEL.
SLEEVES: DAMPER SHALL BE SUPPLIED AS A SINGLE ASSEMBLY WITH AN INTEGRAL FACTORY SLEEVE. DAMPER SHALL BE SUPPLIED WITH FACTORY RETAINING ANGLES SIZED TO PROVIDE INSTALLATION OVERLAP IN ACCORDANCE WITH MANUFACTURER'S UL LISTING. BLADES SHALL BE GALVANIZED CURTAIN TYPE WITH TYPE 301 STAINLESS STEEL, CONSTANT FORCE OR SPRING CLIP TYPE CLOSURE SPRINGS. PROVIDE WITH 165 DEGREES F FUSIBLE LINK. DAMPERS SHALL BE APPROVED FOR VERTICAL OR HORIZONTAL MOUNTING.

ACCEPTABLE MANUFACTURERS
THE FOLLOWING IS A LIST OF MANUFACTURERS WHOSE EQUIPMENT AND HVAC MATERIALS ARE ACCEPTABLE, SUBJECT TO CONFORMANCE WITH CONTRACT DOCUMENTS. VERIFY THAT THE EQUIPMENT WILL MEET ALL CAPACITIES, SPACE ALLOCATIONS, AND THAT THE WEIGHTS WILL NOT EXCEED STRUCTURAL DESIGN LOADS.

PACKAGED A/C: TRANE
GRILLES, REGISTERS, DIFFUSERS: KRUEGER, METAL-AIRE, TITUS,
FLEXIBLE DUCT: GENFLEX, THERMAFLEX, OR EQUIVALENT.
DUCT AND PIPE INSULATION: KNAUF, OWENS-CORNING, MANVILLE, CERTAIN-TEED, PPG.

AIR SYSTEM BALANCING
AIR SYSTEMS AND AIR DISTRIBUTION TEST AND BALANCE: THE CONTRACTOR SHALL INCLUDE IN HIS BID THE BALANCING AND TESTING OF HEATING, VENTILATION AND AIR CONDITIONING SYSTEMS TO BALANCE, ADJUST AND TEST AIR MOVING EQUIPMENT AND AIR DISTRIBUTING OR EXHAUSTING SYSTEMS AS HEREIN SPECIFIED. PROVIDE CERTIFIED REPORT.

INSTRUCTIONS/O&M MANUAL
THE CONTRACTOR SHALL INSTRUCT THE OWNER IN THE PROPER OPERATION AND MAINTENANCE OF ALL INSTALLED HVAC EQUIPMENT. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF TWO (2) BOUND OPERATING AND MAINTENANCE MANUALS TO THE OWNER AT THE COMPLETION OF THE PROJECT. THE MANUAL SHALL INCLUDE: CONTROL AND/OR INTERLOCK WIRING DIAGRAMS, SEQUENCE OF OPERATION, PREVENTATIVE MAINTENANCE ITEMS, AND A PARTS LIST WITH THE NOMENCLATURE, MAINTENANCE SCHEDULE, AND NAME, ADDRESS AND PHONE NUMBER OF THE LOCAL PRODUCT REPRESENTATIVE.

REVISIONS	BY
2 City Comments Jan. 02, 2019	WMO

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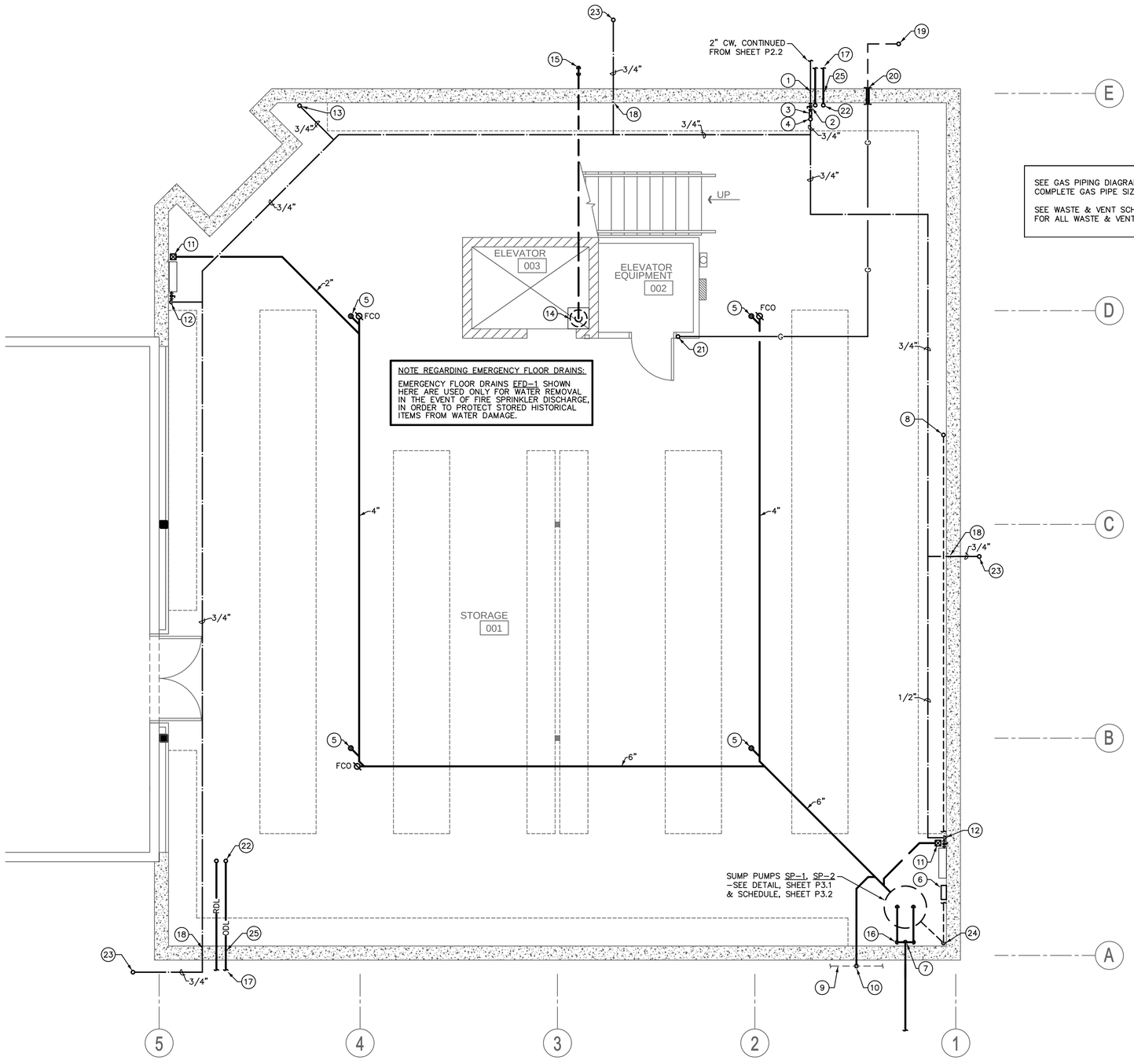
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DATE July 3rd, 2018
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P1 Basement Plumbing Floor Plan

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

Plan North

KEY NOTES

1. 2" CW ENTER BUILDING AT BASEMENT CEILING.
2. 2" BALL VALVE (BUILDING SHUTOFF).
3. 2" PRESSURE REDUCING VALVE– SET AT 80 PSI.
4. 2" CW RISER TO FIRST FLOOR– SEE SHEET P2.2 FOR CONTINUATION.
5. 4" EMERGENCY DRAIN FED–1 WITH NO TRAP OR VENT.
6. SUMP PUMP CONTROL PANEL.
7. 2" SUMP PUMP DISCHARGE RISE TO EXIT BLDG. BELOW EXTERIOR GRADE. SEE CIVIL PLANS FOR CONTINUATION.
8. 2" SUMP PUMP VENT RISER TO FIRST FLOOR– SEE SHEET P2.2 FOR CONTINUATION.
9. FOUNDATION DRAINAGE PIPING– SEE ARCHITECTURAL DRAWINGS.
10. CONNECT DRAIN LINE INTO BOTTOM OF FOUNDATION DRAINAGE SYSTEM PIPING– VERIFY SIZE. DROP DRAIN LINE TO ENTER BLDG. & ROUTE BELOW SLAB TO CONNECT TO BLDG. DRAINAGE SYSTEM TO SUMP PUMP.
11. 2" FLOOR SINK FS–1 WITH NO TRAP OR VENT (FOR CONDENSATE DISCHARGE FROM HUMIDIFIERS).
12. 1/2" CW DOWN TO VALVED CONNECTION TO HUMIDIFIER.
13. 3/4" CW RISER TO FIRST FLOOR, SEE SHT. P2.2 FOR CONTINUATION.
14. SUMP PUMP IN RECESSED SUMP IN BOTTOM OF ELEVATOR PIT, SEE DETAIL SHEET P3.1.
15. 1–1/2" SUMP PUMP DISCHARGE RISE TO DAYLIGHT & TURN DOWN AT +2" ABOVE FIN. GRADE AT LANDSCAPING AREA. COORDINATE EXACT LOCATION OF PIPE TERMINATION WITH ARCHITECT.
16. 1–1/2" PUMP DISCHARGE OUT OF SUMP, WITH SWING CHECK VALVE & FULL PORT PLUG VALVE ON RISER (TYPICAL OF 2).
17. 4" RDL, ODL IN PLANTER, SEE SHEET P2.2 FOR CONTINUATION.
18. 3/4" CW EXIT BUILDING AT BASEMENT CEILING TO ROUTE BELOW GRADE IN PLANTER.
19. GAS PIPING FROM METER, DOWN TO ROUTE BELOW GRADE.
20. GAS PIPING ENTER BUILDING AT BASEMENT CEILING. SLEEVE PIPING AT PENETRATION THROUGH WALL.
21. GAS PIPING UP, SEE FIRST FLOOR PLAN, SHEET P2.2 FOR CONTINUATION.
22. 4" RDL, ODL FROM ABOVE DOWN TO ROUTE AT CEILING.
23. 3/4" CW UP TO HOSE BIBB, SEE SHEET P2.2 FOR CONTINUATION.
24. 2" SUMP PUMP VENT RISE ROUTE AT CEILING.
25. 4" RDL, ODL EXIT BUILDING AT BASEMENT CEILING TO ROUTE BELOW GRADE IN PLANTER.

PLUMBING NOTES:

1. WATER PIPING LOCATED IN EXTERIOR WALLS SHALL BE INSTALLED ON THE BUILDING INTERIOR SIDE OF THE BLDG. INSULATION.
2. EXTERIOR WATER PIPING SHALL BE INSTALLED BELOW FROST LINE.

NOTE:
SLOPE ALL HORIZONTAL WASTE PIPING AS FOLLOWS:

FOR PIPE SIZES UP THROUGH 3", SLOPE AT 1/4" PER FT.

FOR PIPE SIZES 4" & ABOVE, SLOPE AT 1/8" PER FT.

SLOPE ALL HORIZONTAL RAINWATER PIPING AT 1/8" PER FT.

PLUMBING LEGEND

SYMBOL	ABBR.	DESCRIPTION
	W	WASTE PIPING
— — — —	V	VENT PIPING
RDL	RDL	ROOF DRAIN LEADER
ODL	ODL	OVERFLOW ROOF DRAIN LEADER
CW	CW	COLD WATER PIPING
HW	HW	HOT WATER PIPING
HWR	HWR	HOT WATER RECIRC. PIPING
G	G	NATURAL GAS PIPING
⌀	FCO, SCO	FLOOR OR SURFACE CLEANOUT
WCO	WCO	WALL CLEANOUT
VTR	VTR	VENT THRU ROOF
HB	HB	HOSE BIBB
RD	RD	PRIMARY ROOF DRAIN
OD	OD	OVERFLOW ROOF DRAIN
FS	FS	FLOOR SINK
FD	FD	FLOOR DRAIN

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Registered Professional Engineer (Retired) 33491 WILLIAM MARK ODELL Date Signed 10/29/18 ARIZONA U.S.A. Expires 3/31/19

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ARCHITECTURE & PLANNING

DRAWING: Basement Plumbing Floor Plan

PROJECT: Sharlot Hall Education Center Addition 415 W. Gurley St. Prescott, AZ. 86301

APN: 109-02-035

DRAWN BY

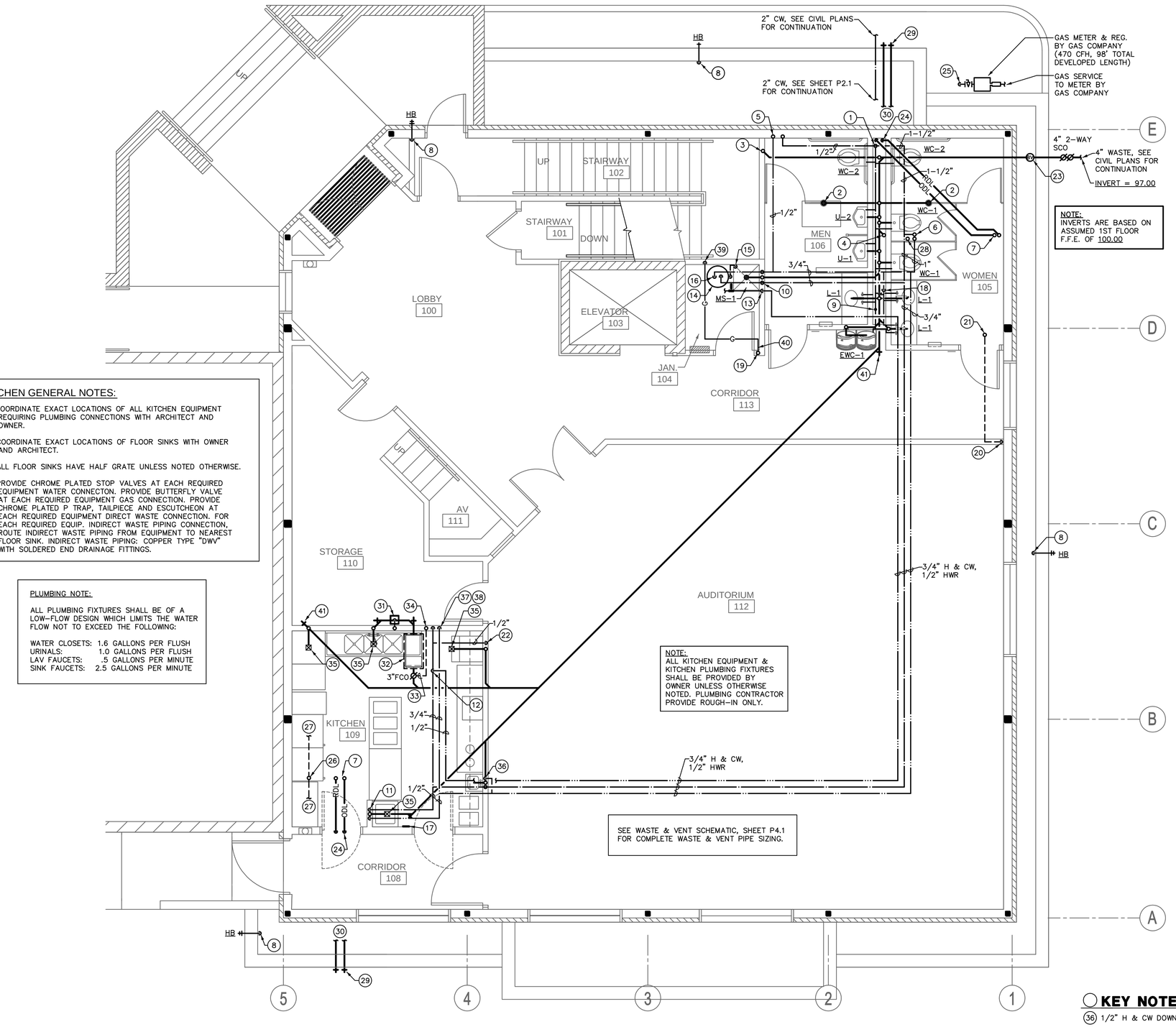
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DATE July 3rd, 2018

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KITCHEN GENERAL NOTES:

1. COORDINATE EXACT LOCATIONS OF ALL KITCHEN EQUIPMENT REQUIRING PLUMBING CONNECTIONS WITH ARCHITECT AND OWNER.
2. COORDINATE EXACT LOCATIONS OF FLOOR SINKS WITH OWNER AND ARCHITECT.
3. ALL FLOOR SINKS HAVE HALF GRATE UNLESS NOTED OTHERWISE.
4. PROVIDE CHROME PLATED STOP VALVES AT EACH REQUIRED EQUIPMENT WATER CONNECTON. PROVIDE BUTTERFLY VALVE AT EACH REQUIRED EQUIPMENT GAS CONNECTION. PROVIDE CHROME PLATED P TRAP, TAILPIECE AND ESCUTCHEON AT EACH REQUIRED EQUIPMENT DIRECT WASTE CONNECTION. FOR EACH REQUIRED EQUIP. INDIRECT WASTE PIPING CONNECTION, ROUTE INDIRECT WASTE PIPING FROM EQUIPMENT TO NEAREST FLOOR SINK. INDIRECT WASTE PIPING: COPPER TYPE "DWV" WITH SOLDERED END DRAINAGE FITTINGS.

PLUMBING NOTE:

ALL PLUMBING FIXTURES SHALL BE OF A LOW-FLOW DESIGN WHICH LIMITS THE WATER FLOW NOT TO EXCEED THE FOLLOWING:

WATER CLOSETS: 1.6 GALLONS PER FLUSH
URINALS: 1.0 GALLONS PER FLUSH
LAV FAUCETS: .5 GALLONS PER MINUTE
SINK FAUCETS: 2.5 GALLONS PER MINUTE

P1 First Floor Plumbing Plan

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

North

KEY NOTES

1. 2" CW RISER FROM BELOW. TAKE 2" HEADER OFF RISER, WITH 1" TO EACH WC, 3/4" TO EACH URINAL, 1/2" TO EACH LAV, & 1/2" TO ELECTRIC WATER COOLER. REDUCE RISER TO 1-1/2" AFTER 2" HEADER TEE & CONTINUE WITH 1-1/2" RISER TO ROUTE ABOVE CEILING.
2. 2" FLOOR DRAIN FD-1 WITH TRAP SEAL DEVICE.
3. 2" WASTE FROM ABOVE, DOWN TO ROUTE BELOW FLOOR.
4. 4" WASTE FROM ABOVE, DOWN TO ROUTE BELOW FLOOR.
5. 1/2" H & CW UP, SEE SECOND FLOOR PLAN, SHEET P2.3 FOR CONTINUATION.
6. 1-1/2" CW & 3/4" HW UP, SEE SECOND FLOOR PLAN, SHEET P2.3 FOR CONTINUATION.
7. 4" RDL, ODL FROM ABOVE DOWN TO ROUTE ABOVE CEILING.
8. 3/4" CW FROM BELOW, UP TO NON-FREEZE HOSE BIBB.
9. WATER HAMMER ARRESTER, PDI TYPE "C", ON CW HEADER UPSTREAM OF LAST FIXTURE BRANCH CONNECTION.
10. 1/2" H & CW DOWN TO MOP SINK.
11. 1/2" H & CW DOWN TO PREP SINK.
12. TAKE 1/2" HWR OFF TOP OF HW LINE, ROUTE ABOVE CEILING BACK TO RECIRC. PUMP AT WATER HEATER.
13. 1/2" HWR DOWN TO RECIRC. PUMP. SEE WATER HEATER DETAIL FOR PUMP SPEC. & FOR CONT. OF 1/2" HWR.
14. NATURAL GAS WATER HEATER WH-1, SEE DETAIL, SHEET P3.1 & SCHEDULE, SHEET P3.2.
15. FULL SIZE WATER HEATER P & T RELIEF DRAIN LINE DOWN TO TERMINATE +2" ABOVE MOP SINK RIM WITH 90° ELBOW DOWN.
16. 3/4" H & CW DOWN TO WATER HEATER.
17. PROVIDE REMOTE AUDIO/VISUAL ALARM & SIGNAGE AT +7' A.F.F. WITH PLACARD BELOW: "ALERT MAINTENANCE PERSONNEL- SUMP PUMP REQUIRES IMMEDIATE SERVICE".
18. 3/4" HW DOWN TO 3/4" HEADER, WITH 1/2" TO EACH LAV.
19. GAS PIPING FROM BELOW, UP, SEE SECOND FLOOR PLAN, SHEET P2.3 FOR CONTINUATION.
20. 2" SUMP VENT FROM BELOW; RISE TO ROUTE ABOVE CEILING.
21. 2" SUMP VENT UP, SEE SECOND FLOOR PLAN, SHEET P2.3 FOR CONT.
22. 1/2" CW DOWN TO VALVED CONNECTION TO ICE MAKER. MAKE CONNECTION THROUGH WATER FILTER & BACKFLOW PREVENTER BP-1.
23. PROVIDE BACKWATER VALVE, LINE SIZE, ON BUILDING SEWER TO COMPLY WITH CITY OF PRESCOTT REQUIREMENTS. LOCATE IN PLANTER.
24. 4" RDL, ODL DOWN. SEE SHEET P2.1 FOR CONT.
25. GAS PIPING OUT OF METER, DOWN TO BELOW GRADE. SEE SHEET P2.1 FOR CONT.
26. 2" VENT UP, SEE SECOND FLOOR PLAN, SHEET P2.3 FOR CONT.
27. 2" VENT (FROM KITCHEN FIXTURES) OFFSET ABOVE CEILING OVER TO VENT RISER.
28. 3" VENT UP, SEE SECOND FLOOR PLAN, SHEET P2.3 FOR CONT.
29. 4" RDL, ODL TO DAYLIGHT AT SPLASH BLOCK AT PLANTER WALL; TERMINATE PIPING WITH "J.R. SMITH" # 1770 DOWNSPOUT NOZZLE, BRONZE FINISH; ALIGN PIPING TREMINATIONS VERTICALLY SO THAT PRIMARY ROOF DRAIN LEADER IS BELOW OVERFLOW DRAIN LEADER.
30. 4" RDL, ODL IN PLANTER, CONTINUED FROM SHEET P2.1.
31. FLOW CONTROL DEVICE FOR GREASE TRAP (IN RECESSED BOX WITH COVER) ON WASTE LINE. PROVIDE FULL SIZE FLOW CONTROL VENT ROUTED BELOW FLOOR TO RISE IN WALL.
32. GREASE TRAP GT-1 – 35 GPM FLOW RATE, 70 LBS CAPACITY. INSTALL RECESSED IN FLOOR WITH TOP FLUSH WITH FINISHED FLOOR.
33. 2" VENT OFF TOP OF WASTE, ROUTE BELOW FLOOR TO RISE IN WALL.
34. 2" VENT RISE FROM BELOW FLOOR TO ROUTE IN WALL.
35. 2" FLOOR SINK FS-2 WITH HALF GRATE.

KEY NOTES (CONTINUED)

36. 1/2" H & CW DOWN TO HAND SINK.
37. 1/2" CW DOWN TO 3-COMP. SINK.
38. 3/4" HW DOWN TO 3/4" HEADER, WITH 1/2" TO 3-COMP. SINK & 3/4" TO DISHWASHER.
39. GAS DOWN TO WATER HEATER.
40. TEE OFF RISER AT FIRST FLOOR CEILING SPACE (GAS SUPPLY TO WATER HEATER); RISER CONTINUES TO ROOF.
41. TYPICAL CLEANOUT LOCATED EXPOSED AT BASEMENT CEILING SPACE BELOW- SEE WASTE & VENT SCHEMATICS FOR SIZE.

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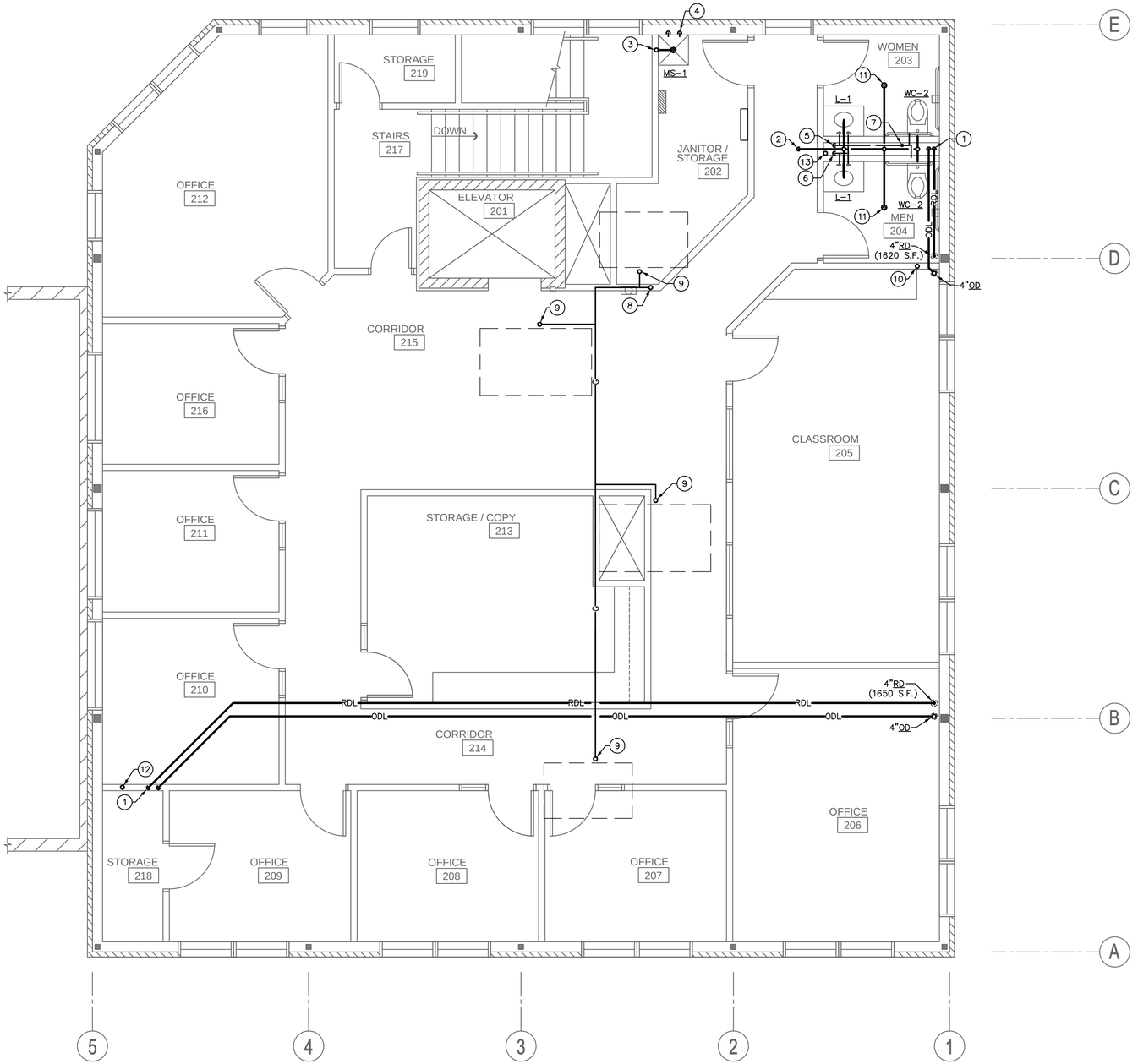
DRAWING: First Floor Plumbing Plan

PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ. 86301

APN: 109-02-035

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KEY NOTES

1. 4" RDL, ODL DOWN. SEE SHEET P2.2 FOR CONT.
2. 4" WASTE DOWN, SEE SHEET P2.2 FOR CONT.
3. 2" WASTE DOWN, SEE SHEET P2.2 FOR CONT. SEE FIRESTOP DETAILS, SHEET P3.1 FOR PIPING PENETRATION THROUGH RATED WALL AND FLOOR.
4. 1/2" H & CW FROM BELOW, UP TO MOP SINK.
5. 1-1/2" CW FROM BELOW, RISE TO 1-1/2" HEADER, WITH 1/2" TO EACH LAV & 1" TO EACH WATER CLOSET.
6. 3/4" HW FROM BELOW, RISE TO 3/4" HEADER, WITH 1/2" TO EACH LAV.
7. WATER HAMMER ARRESTER, PDI TYPE "B", ON CW HEADER UPSTREAM OF LAST FIXTURE BRANCH CONNECTION.
8. GAS PIPING FROM BELOW, RISE TO ROUTE ABOVE CEILING.
9. GAS PIPING UP TO ROOF MOUNTED A/C UNIT. FLASH PIPING AT ROOF PENETRATION.
10. 2" SUMP VENT FROM BELOW, UP TO 2" VTR.
11. 2" FLOOR DRAIN FD-1, PROVIDE TRAP SEAL DEVICE.
12. 2" VENT FROM BELOW, UP TO 2" VTR.
13. 3" VENT FROM BELOW, UP TO 2" VTR.

P1 Second Floor Plumbing Plan

Scale: 1/4"=1'-0" North

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DRAWING: Second Floor Plumbing Plan

PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ. 86301

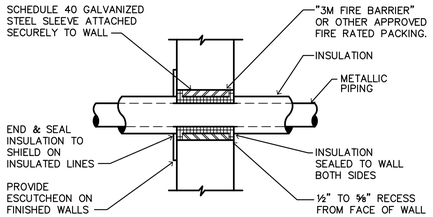
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SUMP BASIN INSTALLATION NOTES:

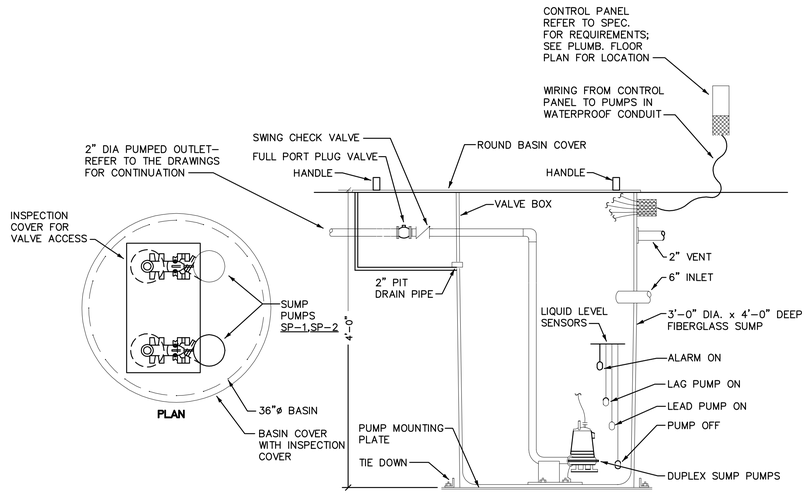
1. INSTALLER TO FOLLOW SAFE INSTALLATION PROCEDURES.
2. FOR BACKFILL MATERIAL REQUIREMENTS PROVIDE PUMP BASIN SUBMITTAL TO STRUCTURAL ENGINEER FOR INSTRUCTIONS.
3. PRIOR TO ORDERING PUMPS: PROVIDE SUBMITTALS TO STRUCTURAL ENGINEER FOR SKETCH OF BURIAL METHOD AND FINAL LOCATION OF BASIN. COORDINATE WITH SUBFLOOR DRAINAGE PIPING CONTRACTOR TO ASSURE PIPING ELEVATION AND DEPTH OF BASIN ARE COMPATIBLE. PROVIDE BOTH SKETCH FROM STRUCTURAL ENGINEER AND SUBFLOOR PIPING PLAN ALONG WITH PUMP SUBMITTAL TO MECHANICAL ENGINEER FOR PRIOR APPROVAL.
4. SIZE AND SLOPE OF BASIN EXCAVATION; ANGLE, SLOPE, AND MINIMUM DISTANCE FROM BOTTOM OF FOOTINGS PER STRUCTURAL ENGINEER.
5. REFER TO STRUCTURAL ENGINEER FOR SUBSOIL PREP.; PROVIDE COMPACTED SUB-BASE AND/OR CONCRETE SLAB PER STRUCTURAL ENGINEER. PROVIDE MINIMUM BACKFILL AND COMPACTION PER STRUCTURAL ENGINEER.
6. PROVIDE ANTI-FLOTATION FLANGE AND COMPACTED GROUT AS REQUIRED FOR BASIN INSTALLATION.



DETAIL PER U.L. SYSTEM #147
CAULK: 3M- TYPES CP-25 S/L
CP-25 N/S

PIPE THROUGH RATED WALL

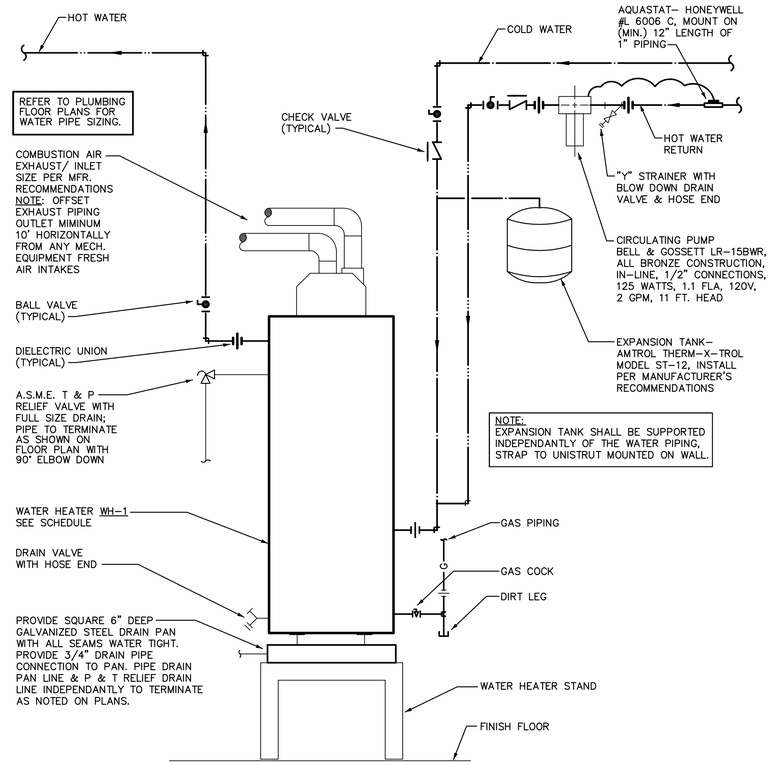
NTS



SP-1,2 SUBMERSIBLE SUMP PUMPS: BRONZE-FITTED CONSTRUCTION, SUBMERSIBLE SEALED MOTOR, STAINLESS STEEL SHAFT AND WATERPROOF POWER CABLE. PROVIDE FIBERGLASS SUMP BASIN, WITH INLET AS DETERMINED BY JOB CONDITIONS. BASIN COMPLETE WITH STEEL COVER WITH REQUIRED OPENINGS FOR DISCHARGE PIPING, AND SHALL BE TREATED WITH A CORROSION RESISTANT COATING. PROVIDE ALL REQUIRED ACCESSORIES, INCLUDING CONTROL PANEL, CHECK VALVES & FLOAT SWITCHES. CONTROL PANEL SHALL INCLUDE TWO FUSIBLE DISCONNECT SWITCHES FOR THE POWER CIRCUITS, TWO MAGNETIC CONTACTORS WITH OVERLOAD RELAYS IN EACH PHASE, ONE RUNNING LIGHT FOR EACH MOTOR. AND AN AUTOMATIC ALTERNATOR WHICH WILL ALTERNATE THE PUMPS ON EACH CYCLE OF OPERATION. A STANDBY SWITCH WILL BE FURNISHED TO OPERATE THE SECOND PUMP IF THE NUMBER ONE PUMP CANNOT HANDLE THE LOAD. THE PANEL WILL ALSO INCLUDE A HIGH WATER ALSRM WITH WARNING LIGHT, BELL, AND SILENCING SWITCH. SEE EJECTOR DETAIL AND SCHEDULE FOR PUMP MODEL NUMBERS, CAPACITIES, MOTOR SIZES AND BASIN DIMENSIONS.

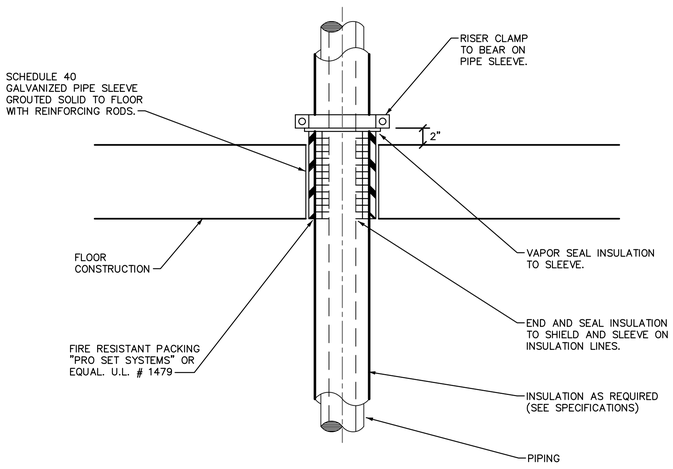
DUPLEX SUMP PUMP DETAIL

NTS



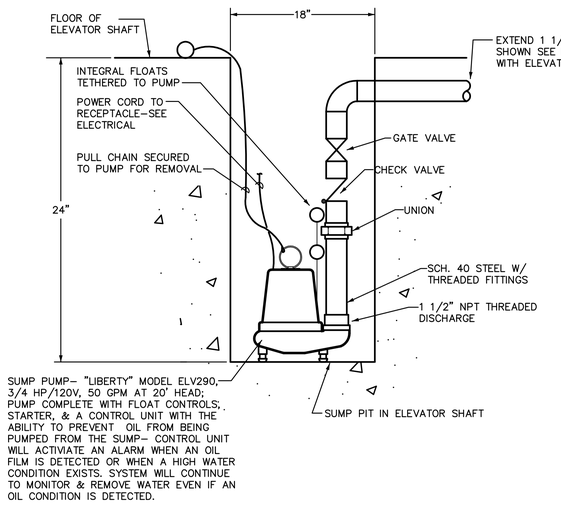
GAS WATER HEATER, POWER DIRECT VENT WITH RECIRC. PUMP

NTS



PIPE THROUGH FIRE RATED FLOOR

NTS



ELEVATOR PIT SUMP PUMP DETAIL

NTS

PLUMBING GENERAL NOTES:

1. ALL PLUMBING WORK SHALL COMPLY WITH THE MOST STRINGENT OF APPLICABLE CODES, ORDINANCES, OR THE SPECIFICATIONS.
2. ALL FIXTURES SHALL BE PROPERLY VENTED TO THE ATMOSPHERE.
3. COORDINATE LOCATION OF ALL PLUMBING LINES WITH DUCTWORK AND ELECTRICAL SERVICES.
4. WATER PIPING INSTALLED UNDER CONCRETE SLAB SHALL BE LOOPED IN PARTITION WALLS WITH NO JOINTS UNDER SLAB & WITH PLASTIC SLEEVE FOR EACH PENETRATION THROUGH SLAB.
5. ALL WATER PIPING TO BE CONTROLLED BY FULL FLOW BALL VALVE.
6. LOCATE ALL VENTS THROUGH ROOF 10'-0" FROM ALL AIR INTAKES, EVAPORATIVE COOLERS, ETC.
7. VERIFY INVERT ELEVATIONS (WASTE LINES), SIZES, & LOCATIONS OF ALL EXISTING GAS, WATER & WASTE LINES TO WHICH NEW PIPING CONNECTS PRIOR TO MAKING-UP OR INSTALLATION OF PIPING.
8. NOT USED.
9. LOCATE ALL VALVES, UNIONS, THERMOMETERS, GAUGES, OR OTHER EQUIPMENT REQUIRING FREQUENT READING. REPAIRS, ADJUSTMENTS, INSPECTION, REMOVAL OR REPLACEMENT SO AS TO BE ACCESSIBLE WITH REFERENCE TO THE FINISHED BUILDING.
10. FULL WAY VALVE IS REQUIRED ON THE DISCHARGE SIDE OF EACH METER AND AT THE COLD WATER SUPPLY TO EACH WATER HEATER.
11. INSTALL APPROVED DIELECTRIC ISOLATORS AT ALL CONNECTIONS OF DISSIMILAR METALS.
12. REFER TO PLUMBING FIXTURE SCHEDULE FOR INDIVIDUAL LINE SIZES.
13. WHERE POSSIBLE, TIE VENTS TOGETHER SO THAT A MINIMUM NUMBER TERMINATE THROUGH ROOF.
14. PRIOR TO SUBMITTING BID, CONTRACTOR SHALL REVIEW THE ARCHITECTURAL DRAWINGS & INCLUDE IN HIS BID AN AMOUNT TO FURNISH & INSTALL ANY FIXTURES SHOWN IN ADDITION TO PLUMBING DRAWINGS.
15. SOLDERS AND FLUX HAVING A LEAD CONTENT IN EXCESS OF TWO-TENTHS OF ONE PERCENT SHALL NOT BE USED IN THE INSTALLATION OR REPAIR OF PLUMBING PROVIDING WATER FOR HUMAN CONSUMPTION.
16. CONTRACTOR SHALL NOT CUT HOLES IN STRUCTURAL MEMBERS WITHOUT FIRST SECURING WRITTEN APPROVAL FROM THE ARCHITECT.
17. ROUGH-IN ALL WATER & WASTE PIPING TO SPECIAL EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS' SHOP DRAWINGS. VALVE ALL SUPPLIES AND MAKE FINAL CONNECTIONS.

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ARCHITECTURE & PLANNING

DRAWING: Plumbing Details

PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ. 86301

APN: 109-02-035

DRAWN BY	
CHECKED BY	
DATE	July 3rd, 2018
JOB NO.	710
SHEET	P3.1

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PLUMBING SPECIFICATIONS:

1. GENERAL

1..1 Scope: Work under this section includes coordinating and furnishing all labor and material necessary to install a complete plumbing system as shown and specified and in accordance with the codes. Contractor shall pay for all permits, meters, fees, city inspections, legal notices, etc., as required.

1..2 Submittals: Within 15 days after award of contract, submit 8 copies of all items.

1..3 Record Drawings: Provide a set to the Architect at completion of project.

1..4 Instructions: Provide maintenance manual and instruct Owner in the proper operation and maintenance of the equipment.

1..5 Guarantee: One year on labor, material and equipment.

2. PRODUCTS

2..1 Piping:

2..1.1 Water Lines:

2..1.1.1 Copper: Type "L" hard drawn, conforming to ASTM B88, for all water pipe not set under concrete or in the ground.

2..1.1.2 Copper: Type "K" soft drawn, conforming to ASTM B88, for water pipe set in or under concrete or in the ground. Wrap lines below concrete floors with 20 mils of polykon tape.

2..1.1.3 Fittings: Wrought copper conforming to ANSI B16.22.

2..1.1.4 Plastic: If permitted by Administrative Authority, IAPMO approved, NSF–61 listed, crosslinked polyethylene (PEX) tubing, equal to Wirsbo "AQUAPEX" system is acceptable for potable water piping.

2..1.2 Sanitary Waste and Vent, Rainwater Piping:

2..1.2.1 Cast Iron: Standard weight, no–hub cast iron soil and vent pipe, coated inside and out, conforming to CISPI 301, for all soil and waste lines in or under concrete and for all vent lines 2" and larger.

2..1.2.2 Galvanized Iron: Standard weight, Schedule 40 galvanized iron conforming to ASTM A120 for all vent lines 2–1/2" or smaller.

2..1.2.3 Plastic: Subject to Owner approval, ABS plastic piping conforming to ASTM D–2751–88, Schedule 40, or PVC piping conforming to ASTM D2665–88, are acceptable for sanitary waste and vent piping. Fittings: Drainage fittings to match pipe.

2..1.2.4 Sump Pump discharge piping: Schedule 40 galvanized steel with galvanized, malleable iron screwed or flanged fittings.

NOTE:
RAINWATER PIPING SHALL BE CAST IRON OR GALVANIZED IRON AS SPECIFIED ABOVE ONLY–PLASTIC NOT PERMITTED.

2..1.3 Gas Piping:

2..1.3.1 Gas Piping, interior above slab: Schedule 40 black steel conforming to ASTM A53. Fittings shall conform to the following:

2..1.3.1.1 Pipe 1–1/2" and Smaller: 150 psi, black malleable iron, conforming to ANSI B16.3, 150 psi SWP.

2..1.3.1.2 Pipe 2" and Larger: Black steel seamless welding fittings conforming to ANSI B16.9 and USAS B16.25, 150 psi SWP.

2..1.3.1.3 Unions: Black malleable iron screwed connections, ground iron–to–bronze seat, conforming to ASTM A47, 250 psi SWP.

2..1.3.1.4 Flanges: Black forged steel with weld neck flanges conforming to ANSI B16.5, 150 psi SWP.

2..1.3.2 Gas Piping, above grade or slab, exterior: Schedule 40 galvanized steel, conforming to ASTM A53. Fittings: 150# galvanized steel screwed fittings.

2..1.3.3 Gas piping, below grade or slab: Polyethylene (PE) pipe, conforming to ASTM D2513, with heat fused joints. Installed in accordance with IAPMO IS 12–83. All piping installed below slab shall be properly sleeved and vented. Verify proposed installation is acceptable to Authority Having Jurisdiction prior to construction.

2..1.3.3.4 Risers: All risers in the system from below grade shall be pre–manufactured anodeless type as manufactured by Central Maufacturing Co., Shawnee, OK, or approved equal.

2..1.4 Tracer Wire: Provide approved 14 gage copper (orange covered) tracer wire along all non metallic underground piping.

2..2 Pipe Hangers and Supports: Fee & Mason Figure 103 clevis hanger for insulated pipe and Figure 104 clevis hanger for cast iron pipe. Install #500 Trisolators on uninsulated copper lines at all hangers and wall penetrations.

2..3 Pipe Insulation: Use fiberglass premolded insulation with all–service jacket, minimum density of 3.5 pcf. Provide an additional 8–ounce canvas jacket with Arabol finish around all exposed pipe insulation. Cover fittings and valves (except unions) with insulation cement worked on in two applications to a smooth, hard surface, flush with pipe covering. Provide 8" long, 20 gauge, galvanized iron metal insulation guards at locations of hanger rods and supports. Provide 12" long rigid insulation blocks on bottom half of pipe 1" and larger at hangers. Insulation wall thickness shall conform to the following schedule:

Domestic Hot Water and Hot Water Recirculating Lines:

Mains and horizontal branches – 1" thickness.
Drops in walls and partitions – 1/2" thickness.

2..4 Valves:

2..4.1 Gate Valves: Milwaukee 115, 125#, bronze body, solder type gate valve with nonrising stem for all lines up through 3" size.

2..4.2 Check Valves: Milwaukee #1509, 125#, bronze body, solder joint check valve with horizontal bronze disc for all valves up to 2" size. Milwaukee #F2974, 125#, iron body, bronze trimmed, flanged horizontal check valve for all valves larger than 2" size.

2..4.3 Shutoff Valve: Milwaukee BB1–350 bronze body, solder joint valve for all lines up through

2..4.4 Gas Valves, 3/4" and Smaller: Milwaukee BB–1–102.

2..4.5 Gas Valves, 1" to 1–1/2": Rockwell–Nordstrom #142 with #555 lubricant for natural gas service.

2..4.6 Gas Valves, 2" and Larger: Rockwell–Nordstrom #143 with #555 lubricant for natural gas service.

2..5 Cleanouts:

2..5.1 Concrete and Tile Floors: J.R. Smith 4023, with scoriated nickel–bronze top.

2..5.2 Cleanouts (exposed vertical piping): J.R. Smith 4512 cast iron branch cleanout tee with bronze plug.

2..5.3 Interior Finished Walls: J.R. Smith 4532.

2..5.4 Exterior Surface Cleanouts: J.R. Smith 4253. Provide 18" x 18" x 6" concrete pad at landscape areas; provide concrete ring below grade at asphalt areas.

2..5.5 Provide all cleanouts with heavy threaded bronze plugs.

2..6 Drains:

2..6.1 Roof Drains:

2..6.1.1 RD: J.R. Smith 1010 cast iron roof drains with flashing collar and cast iron dome. Furnish extension for insulated roofs. Sump receiver and underdeck clamp for all but poured–in–place installations. Outlet connection type shall be compatible with piping system. Provide lead flashing for all roof drains.

2..6.1.2 OD: J.R. Smith 1070 with same features as described for "RD". Standpipe shall be secured so that after the installation of the drain assembly, the top of the standpipe shall be a minimum of 2" above the adjacent finished roof surface.

2..7 Acceptable Manufacturers: The following is a list of manufacturers whose equipment is acceptable as to manufacturer, subject to conformance with all drawings, specifications and addenda items:

Plumbing Fixtures: American Standard, Kohler, Eljer.

Stainless Steel Sinks: Just, Elkay, Moen.

Electric Water Coolers: Elkay, Oasis, Halsey Taylor.

Mop Sinks: Fiat, Swan, Mustee.

Water Heaters: Rheem, A.O. Smith, American Mor–Flo.

Valves: Crane, Kennedy, Stockham, Grinnell, Milwaukee, Wolverine.

Hose Bibbs: Acorn, Chicago, Woodford.

P–Traps: Crane. Kohler, Eljer, Frost, McGuire.

Supply Fittings: Chicago, American Standard, Eljer, Speakman, Kohler.

Supply Stops: Eastman, Kohler, Eljer, Brasscraft, McGuire.

Closet Seats: Sperzel, Olsonite, Beneke, Bemis.

Drains and Cleanouts: J. R. Smith, Zurn, Josam, Wade, Western.

Hangers: Grinnell, Fee & Mason, Elcen, Kin–Line, F & S, B–Line, Michigan.

2.8 Plumbing Fixtures: Use polished chrome–plated, adjustable brass P–traps with wall escutcheons at all exposed locations. Use polished chrome–plated faucets with removable trim, brass body and brass handles. Fixtures and supply fitting shall be of one manufacturer. Provide diaphragm type, polished chrome–plated flush valves with integral vacuum breakers and screwdriver stops. Provide fixture stops or valves ahead of all equipment or fixtures. After fixtures are set in place and secured to walls, caulk all around between fixtures and wall with either Dow Corning #780 or G.E. Construction Sealant white silicone caulking compound. See Plumbing Fixture Specification Schedule for complete fixture specifications.

2.9 Kitchen Equipment: Provide rough–in and final connections to kitchen equipment furnished under separate section or by Owner. Provide all water supplies and shutoff valves at each required water connection. For indirect waste piping connections, provide type "DWV" copper with soldered end drainage fittings, piped to terminate at nearest floor sink, for all required indirect waste piping, and P trap for all required direct waste piping connections. Refer to manufacturer's equipment cut sheets for piping connection sizes. All exposed water and drain piping and stop valves shall be polished chrome plated.

3. EXECUTION

3..1 Tests and Inspections:

3..1.1 All work to be tested and approved before covering as directed by Architect. Remake all leaking joints.

3..1.2 Water System: 125 psi hydrostatic pressure held for four hours.

3..1.3 Sanitary Waste and Vent, Rainwater System: Fill with water to highest point in the system and stand without loss for two hours.

3..1.4 Gas System: Hold at 50 psi pneumatic for four hours with no pressure loss.

3..1.5 Sterilization (Domestic Water System): After tests have been completed, the entire domestic water distribution system shall be thoroughly flushed with water until all entrained dirt and mud have been removed, and shall be sterilized with solutions of either liquid chlorine conforming to Federal Specification BB–B–120 or hypochlorite conforming to Fed. Spec. O–C–114, Type II, Grade G, or Fed. Spec. O–S–602, Grade A or B. The chlorinating material shall provide a dosage of not less than 50 parts per million and shall be introduced into the system in an approved manner, and retained in the system for 8 hours before flushing.

3..2 Flashing, Sleeves and Escutcheon Plates:

3..2.1 Flashing: Supply flashing for all vent pipe and other types of piping through roof to be installed with roofing. Flash vents with Stoneman S1300–4 or with sheet lead weighing not less than 4 pounds per square foot or equal. Extend flashing into roofing at least 10" from vent and turn flashing over and down into vent opening.

3..2.2 Sleeves: Use 20 gauge galvanized steel sleeves around pipes passing through masonry walls and concrete slabs.

3..2.3 Escutcheon Plates: Install cast brass split ring with setscrew at all locations where exposed pipes pass through walls, floors and/or ceilings. Provide polished chrome–plated escutcheons in finished rooms, all others polished brass.

3..3 Electrical: Wiring by Electrical Contractor.

PLUMBING FIXTURE SPECIFICATIONS

SYMBOL	DESCRIPTION
WC–1	WATER CLOSET: FIXTURE: AMERICAN STANDARD 3351.101, WALL MOUNTED, SIPHON JET, 1.28 GALLONS PER FLUSH, VITREOUS CHINA, ELONGATED BOWL, 1–1/2" TOP SPUD. SEAT: AMERICAN STANDARD 5901.110 WHITE OPEN FRONT SEAT WITH CONCEALED STAINLESS STEEL CHECK HINGE & WITHOUT COVER. FLUSH VALVE: HYDROTEK HB8–B1.128 EXPOSED INFRARED BATTERY OPERATED SENSOR ACTIVATED CAST BRASS CHROME PLATED FLUSH VALVE, SLOW CLOSING, SELF CLEANING PISTON FLUSH MECHANISM WITH MECHANICAL OVERRIDE BUTTON; MAXIMUM FLUSH CYCLE OF 1.28 GPF; WITH FIELD ADJUSTABLE SENSOR RANGE. FURNISHED WITH SWEAT ADAPTER KIT AND FOUR (4) AA ALKALINE BATTERIES. CARRIER: PROVIDE APPROPRIATE WATTS DRAINAGE CARRIER; COORDINATE WITH FITTING TYPE REQUIREMENTS.
WC–2	WATER CLOSET (ADA COMPLIANT): SAME FIXTURE, FLUSH VALVE, CARRIER AND SEAT AS WC–1, EXCEPT MOUNT WITH BOWL HEIGHT AT 18" ABOVE FINISHED FLOOR TO MEET HANDICAPPED REQUIREMENTS.
U–1	URINAL (ADA): FIXTURE: AMERICAN STANDARD 6590.001 WHITE VITREOUS CHINA WALL HUNG SIPHON JET URINAL WITH ELONGATED FLUSHING RIM, 3/4" TOP SPUD, 2" THREADED FEMALE OUTLET CONNECTION. FLUSH VALVE: HYDROTEK HB8–B1–05 EXPOSED INFRARED BATTERY OPERATED SENSOR ACTIVATED CAST BRASS CHROME PLATED FLUSH VALVE, SLOW CLOSING, SELF CLEANING PISTON FLUSH MECHANISM WITH MECHANICAL OVERRIDE BUTTON; MAXIMUM FLUSH CYCLE OF 0.5 GPF; WITH FIELD ADJUSTABLE SENSOR RANGE. FURNISHED WITH SWEAT ADAPTER KIT AND FOUR AA ALKALINE BATTERIES. CARRIER: WATTS DRAINAGE CA–321. MOUNT FIXTURE AT WHEELCHAIR HEIGHT (REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE MOUNTING HEIGHT).
U–2	URINAL (ADA COMPLIANT): FIXTURE, FLUSH VALVE, AND ACCESSORIES SAME AS DESCRIBED ABOVE FOR "U–1" EXCEPT MOUNT FIXTURE AT WHEELCHAIR HEIGHT (REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE MOUNTING HEIGHT).
L–1	LAVATORY (COUNTERTOP–HANDICAPPED ACCESSIBLE): FIXTURE: INTEGRATED BOWL BY COUNTERTOP PROVIDER. FAUCET: HYDROTEK HB–1000C (BAT) SENSOR ACTIVATED FAUCET WITH BATTERY POWERED VALVE CONTROL MODULE. FAUCET SHALL BE SOLID BRASS CONSTRUCTION. FOUR (4) AA ALKALINE BATTERIES SHALL BE INCLUDED WITH FAUCET AND TO BE CONCEALED INSIDE A REMOTELY LOCATED BATTERY BOX. SOLENOID CONTROL VALVE SHALL BE ENCLOSED IN A WATER–RESISTANT HOUSING MOUNTED BENEATH THE FIXTURE, AND SHALL BE PRESET TO TIME OUT AUTOMATICALLY AFTER 30 SECONDS. FAUCET SHALL BE ADA COMPLIANT AND MEET ANSI 112.18 STANDARDS AND BE FURNISHED WITH A 0.5 GPM AERATOR. SUPPLIES: EASTMAN C5RC–15–LK, ANGLE STOPS WITH FLEXIBLE TUBE RISERS. WASTE: McGUIRE 155WC OFFSET WHEELCHAIR LAVATORY STRAINER WITH GRID DRAIN, CAST BRASS ELBOW AND OFFSET TAILPIECE. TRAP: McGUIRE 8902, 1–1/4" x 1–1/2" CAST BRASS P TRAP. INSULATE ALL EXPOSED WATER AND WASTE PIPING WITH PLUMBEREX 2003W "HANDY–SHIELD MAXX" INSULATION WITH MODEL No. 3041 WHEELCHAIR OFFSET STRAINER INSULATOR; ALL COMPLYING WITH ASTM E 84–07/UL 723 CLASS A AND BE LISTED WITH AND MEET UPC/IAPMO. INSULATION MATERIAL SHALL BE U/V INHIBITED WITH ANTIMICROBIAL AND ANTIFUNGAL PROPERTIES.
MS1	MOP SINK: FIXTURE: FIAT MODEL MSB–2424, 24" x 24" x 10", FLOOR MOUNTED, MOLDED STONE WITH INTEGRAL STAINLESS STEEL STRAINER EXTENSION. FAUCET: CHICAGO FAUCET 897 CHROME–PLATED SUPPLY FITTING WITH INTEGRAL STOPS, VACUUM BREAKER, 3/4" HOSE THREAD, FLEXIBLE 3/4" RUBBER HOSE AND HOSE BRACKET; MOP HANGER; SILICONE SEALANT INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. TRAP: PROVIDE 2" P TRAP.
EWC–1	ELECTRIC WATER COOLER (HIGH–LOW TYPE): FIXTURE: ELKAY MODEL No. EZSTL8LC, WALL MOUNTED BARRIER FREE SPLIT–LEVEL ELECTRIC WATER COOLER WITH CAPACITY OF 7.8 GPH AT 90° F AMBIENT AT 80° F INLET AND 50° F OUTLET. COMPRESSOR: 1/5 HP, 120 VOLT, HERMETICALLY SEALED WITH CAPACITOR AND OVERLOAD PROTECTION. COOLER MANUFACTURER SHALL PROVIDE A 5–YEAR, 100% REPLACEMENT WARRANTY ON THE COMPRESSOR, CONTROLS, TANK AND INTEGRAL PIPING. SUPPLY: EASTMAN C5RC–15–LK, 1/2" x 3/8" ANGLE STOP WITH FLEXIBLE TUBE RISER. TRAP: McGUIRE 8902 1–1/4" x 1–1/2" CAST BRASS P TRAP. REFER TO ARCHITECTURAL DRAWINGS FOR UNIT MOUNTING HEIGHTS.
WH–1	GAS WATER HEATER: PROVIDE NATURAL GAS–FIRED WATER HEATER OF SIZE, CAPACITY AND MAKE AS SCHEDULED ON DRAWINGS. HEATER SHALL BE WARRANTED FOR A MINIMUM OF 5 FULL YEARS AFTER FINAL ACCEPTANCE OF THE BUILDING. FURNISH HEATERS WITH THE FOLLOWING ACCESSORIES: 1. ASME COMBINATION TEMPERATURE AND PRESSURE RELIEF VALVE RATED IN EXCESS OF HEATER INPUT. RUN FULL SIZE DRAIN TO TERMINATE AS SHOWN ON DRAWINGS. 2. AUTOMATIC THERMOSTAT ACTUATED CONTROLS WITH 100% SHUTOFF. 3. DUAL HIGH–LIMIT CONTROLS. 4. TANK DRAIN. 5. BRASS NIPPLES FOR PIPE CONNECTIONS. 6. HEATER SHALL BE FACTORY INSULATED AND SHEET METAL JACKETED.
GT–1	GREASE TRAP: J.R SMITH 8235–Y–B, 35 GPM, 70 LBS CAPACITY, WITH STEEL EXTENSIONS AS REQUIRED TO MEET GRADE, WITH FLOW CONTROL FITTING, NO–HUB ADAPTER, LIFT–OUT SEDIMENT BUCKET; ACID RESISTANT COATED INTERIOR.
WHA	WATER HAMMER ARRESTER: SIOUX CHIEF "HYDRA–RESTER", WHERE REQUIRED IN PIPING SYSTEMS. SIZE FOR FIXTURE UNIT LOAD, WITH NESTING TYPE BELLOWS CONTAINED WITHIN, CASING AND BELLOWS SHALL BE CONSTRUCTED OF STABILIZED 18–8 STAINLESS STEEL.
EFD–1	EMERGENCY FLOOR DRAIN: J.R SMITH 2120, DUCO CAST IRON DRAIN BODY WITH ROUND TOP AND HEAVY DUTY TRACTOR GRATE, LESS TRAP.
FD–1	FLOOR DRAIN: J.R SMITH 2005–A DUCO CAST IRON DRAIN BODY WITH 5" DIAMETER ADJUSTABLE NICKEL BRONZE STRAINER AND NO–HUB OUTLET CONNECTION. PROVIDE TRAP SEAL DEVICE.
FS–1	FLOOR SINK: J.R. SMITH 3150–Y, 12–1/2" TOP, CAST IRON FLANGED RECEPTOR, WITH ACID RESISTANT COATED INTERIOR, ALUMINUM DOME BOTTOM STRAINER, SQUARE NICKEL BRONZE TOP WITH 3/4 GRATE.
FS–2	FLOOR SINK: J.R. SMITH 3100–Y, 8–1/2" TOP, CAST IRON FLANGED RECEPTOR, WITH ACID RESISTANT COATED INTERIOR, ALUMINUM DOME BOTTOM STRAINER, SQUARE NICKEL BRONZE TOP WITH HALF GRATE.
BP–1	DOUBLE CHECK BACKFLOW PREVENTER: WATTS MODEL No. U007QT, UNION CONNECTIONS, QUARTER TURN BALL VALVES. SIZE SHALL BE SAME AS PIPE IN WHICH UNIT IS INSTALLED.
HB	HOSE BIBB: WOODFORD MODEL No. 65, NON–FREEZE TYPE, CHROME PLATED FINISH, 3/4" HOSE CONNECTION WITH INTEGRAL VACUUM BREAKER, LOOSE TEE KEY HANDLE.

WATER CALCULATION

FIXTURE UNITS = 278 FU / 105 GPM
(PREDOMINANTLY FLUSH VALVE)

PIPE LENGTH, PRV TO FARTHEST FIXTURE	35 FT.
VERTICAL PIPE LENGTH TO HIGHEST FIXTURE	28 FT.
TOTAL PIPE LENGTH	63 FT.
FITTING LOSS (25%)	16 FT.
TOTAL DEVELOPED LENGTH	79 FT.

WATER PIPE SIZING CRITERIA

PRESSURE AT PRV	64.00 PSI*
WATER METER LOSS (EXISTING 2–1/2")	0 PSI*
BACKFLOW PREVENTER LOSS (EXISTING 2–1/2")	0 PSI**
STATIC LOSS (28' x 0.43)	12.04 PSI *
FIXTURE LOSS	25.00 PSI
PRESSURE AVAILABLE FOR PIPING	26.96 PSI

26.96 PSI / 79 FEET x 100 = 34.1 PSI MAXIMUM ALLOWABLE DROP PER 100 FEET PIPE LENGTH

NOTE: PIPING SIZED AT 10 PSI ALLOWABLE DROP / 100 FT.

*ACTUAL STREET PRESSURE EXCEEDS 80 PSI; PRESSURE REDUCING VALVE (PRV) REQUIRED. 64 PSI IS BASED ON 80% OF PRV SETTING OF 80 PSI REQUIREMENT (80 PSI x .8 = 64 PSI).

**WATER METER AND BACKFLOW PREVENTER ARE UPSTREAM OF THE PRESSURE REDUCING VALVE; THEREFORE PRESSURE LOSSES THROUGH THESE ARE NOT CONSIDERED IN THIS CALCULATION.

BRANCH PIPE SIZING CHART FOR 10 PSI LOSS

PIPE SIZE	G.P.M.	F.U.(TANK)	F.U.(F.V)
1/2"	4	4	–
3/4"	10	13	–
1"	20	30	–
1–1/4"	35	65	19
1–1/2"	55	148	58
2"	120	467	346
2–1/2"	210	1003	993

FIXTURE UNIT CALCULATIONS

DESCRIPTION	QTY	F.U. EACH		TOTAL F.U.	
		WASTE	WATER	WASTE	WATER
WATER CLOSET (F.V.)	6	4	10	24	60
LAVATORY	5	1	2	5	10
URINAL	2	2	5	4	10
MOP SINK	2	3	4	6	8
ELECTRIC WATER COOLER	1	1	1	–	1
THREE COMPARTMENT SINK	1	3	4	3	4
DISHWASHER	1	3	4	3	4
PREP SINK	1	3	4	3	4
HAND SINK	1	1	2	1	2
ICE MAKER	1	1	2	1	2
TOTAL FU FOR THIS PROJECT					105
EXISTING FU (EXISTING BUILDINGS)					173
					278

SUMP PUMP SCHEDULE

MARK	MANUFACTURER	MODEL	G.P.M.	FT.HD.	H.P.	V./PH.
SP–1, S0–2	LITTLE GIANT	WS100H	150	20	1	208/1

GAS WATER HEATER SCHEDULE

MARK	MANUFAC.	MODEL	STORAGE CAPACITY IN GALS.	MBH INPUT	GALLON PER HR. REC. AT 90° F T.R.	WATER OUTLET TEMP °F	FLUE SIZE	REMARKS
WH–1	RHEEM	HE55–100	55	100	128	140	(1)	POWER DIRECT VENT

(1) 3"ø INTAKE/3"ø EXHAUST

FIXTURE CONNECTION SCHEDULE (1)

MARK	DESCRIPTION	TRAP SIZE	W	V	CW	HW	REMARKS
WC–1	WATER CLOSET	INTEGRAL	3"	2"	1"	–	WALL MOUNTED, FLUSH VALVE
WC–2	WATER CLOSET (ADA)	INTEGRAL	3"	2"	1"	–	WALL MOUNTED, FLUSH VALVE
U–1	URINAL	INTEGRAL	2"	1–1/2"	3/4"	–	WALL HUNG
U–2	URINAL (ADA)	INTEGRAL	2"	1–1/2"	3/4"	–	ADA COMPLIANT, WALL HUNG
L–1	LAVATORY	1–1/4"x 1–1/2"	2"	1–1/2"	1/2"	1/2"	COUNTERTOP ADA COMPLIANT
MS–1	MOP SINK	2"	2"	1–1/2"	1/2"	1/2"	FLOOR TYPE
EWC–1	ELECTRIC WATER COOLER	1–1/4"x 1–1/2"	2"	1–1/2"	1/2"	–	ADA COMPLIANT SPLIT LEVEL
HB–1	HOSE BIBB	–	–	–	3/4"	–	NON–FREEZE WITH INTEGRAL VACUUM BREAKER
EFD–1	EMERGENCY FLOOR DRAIN	–	4"	–	–	–	NO TRAP OR VENT
FD–1	FLOOR DRAIN	2"	2"	1–1/2"	–	–	PROVIDE TRAP SEAL DEVICE
FS–1	FLOOR SINK	–	2"	–	–	–	WITH 1/2 GRATE NO TRAP OR VENT
FS–2	FLOOR SINK	2"	2"	1–1/2"	–	–	WITH 1/2 GRATE
HS–1	HAND SINK	2"	1–1/2"	1/2"	1/2"	(2)	

NOTES:
(1) REFER TO KITCHEN EQUIPMENT MANUFACTURER'S CUT SHEETS FOR CONNECTION SIZES OF ALL EQUIP. REQUIRING PLUMBING CONNECTIONS.
(2) BY OWNER

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Registered Professional Engineer
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WILLIAM MARK ODELL
Date Signed 10/29/18
ARIZONA U.S.A.
Expires 3/31/19

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ARCHITECTURE & PLANNING

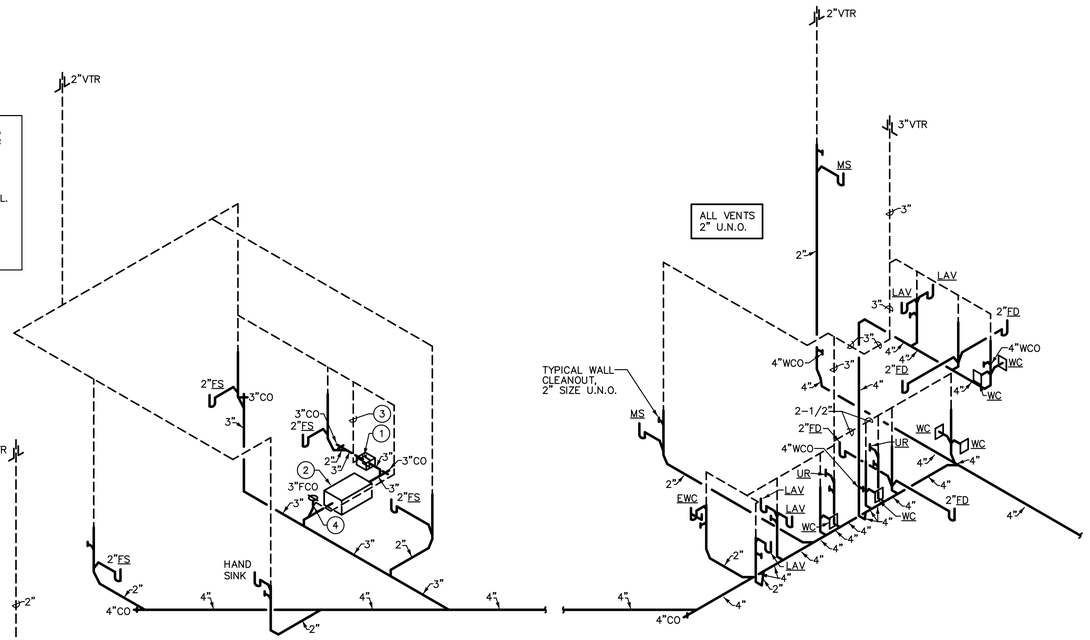
DRAWING: Plumbing Schedules
PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ. 86301
APN: 109-02-035

DRAWN BY
CHECKED BY
DATE July 3rd, 2018
JOB NO. 710
SHEET
P3.2

Jul 03, 2018 - 1:36pm

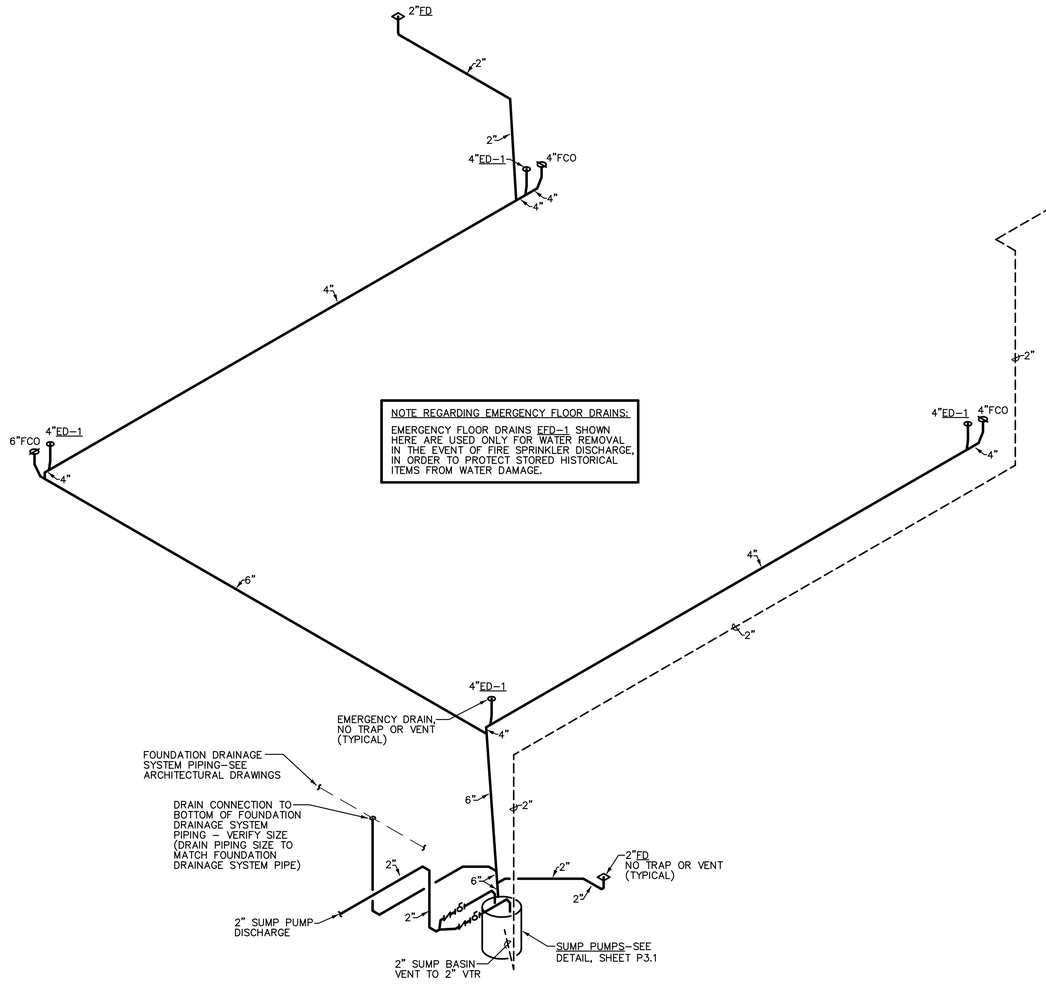
WASTE SCHEMATICS KEYNOTES:

1. FLOW CONTROL DEVICE IN RECESSED BOX WITH COVER.
2. GREASE TRAP– 35 GPM, 70 LBS CAPACITY.
3. FULL SIZE FLOW CONTROL AIR INTAKE VENT ROUTE BELOW FLOOR & RISE IN WALL.
4. 2" VENT OFF TOP OF WASTE LINE– ROUTE BELOW FLOOR OVER TO WALL.



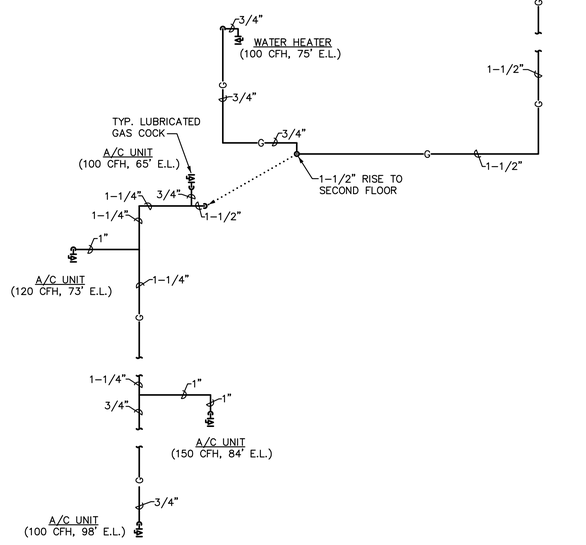
WASTE AND VENT SCHEMATIC

NTS



EMERGENCY DRAIN SCHEMATIC

NTS



GAS PIPING NOTES:

1. MINIMUM DEPTH OF GAS PIPING TO BE 18" BELOW GRADE.
2. GAS PIPING SHALL NOT BE INSTALLED IN OR ON THE GROUND UNDER ANY BUILDING.
3. GAS PIPING SHALL NOT RUN IN HOLLOW CORE OF BLOCK.
4. PROVIDE SHUT–OFF COCK, UNION AND 6" LONG DIRT LEG WITH CAP AT EACH GAS LINE DROP TO APPLIANCE.
5. ALL GAS USING EQUIPMENT TO BE NATURAL FUEL.
6. DO NOT USE FLEXIBLE PIPE CONNECTIONS TO EQUIPMENT.
7. ALL GAS PIPING UNDER ASPHALT OR CONCRETE PAVING ADJOINING BUILDING MUST BE SLEEVED IN GAS TIGHT PIPE (SCHEDULE 40 PVC PIPE), SLEEVE SIZE SHALL (MINIMUM) 2 PIPE SIZES LARGER THAN THE GAS PIPE.
8. ALL GAS PIPING, MATERIALS, VALVES, FITTINGS, INSTALLATION AND TESTING SHALL COMPLY WITH CHAP. 4, INTERNATIONAL FUEL GAS CODE.
9. VERIFY ALL GAS BTU/H INPUTS WITH ACTUAL BTU/H INPUT OF APPLIANCE SUPPLIED.
10. ALL GAS LINES INSTALLED THROUGH CMU WALLS, ETC., SHALL BE SLEEVED WITH STEEL PIPE A MINIMUM OF (2) (TWO) PIPE SIZES LARGER THAN THE GAS PIPE.

GAS PIPING SIZED PER 2012 IFGC, TABLE 402.4(2)

GAS PIPING DIAGRAM

NTS

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ARCHITECTURE & PLANNING

DRAWING: Schematics & Diagrams

PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ. 86301

APN: 109-02-035

DRAWN BY

CHECKED BY

DATE
July 3rd, 2018

JOB NO.
710

SHEET

P4.1

ELECTRICAL SYMBOLS

NOTE: NOT ALL SYMBOLS ARE USED ON THIS PROJECT

- A / a — FLUORESCENT FIXTURE, WITH FIXTURE DESIGNATED BY LETTER. SMALL LETTER INDICATES SWITCH LEG
- NL — NIGHT LIGHT– NOT SWITCHED
- FLUORESCENT STRIP FIXTURE.
- CEILING OR WALLMOUNTED FIXTURE.
- PC — PORCELAIN PULL CHAIN FIXTURE
- J — JUNCTION BOX
- JUNCTION BOX WITH FLEX CONNECTION.
- SINGLE FACE EXIT SIGN– NOT SWITCHED
- DOUBLE FACED EXIT SIGN– NOT SWITCHED.
- TWO HEAD EMERGENCY LIGHT WITH BATTERY.
- POLE–MOUNTED FIXTURE – No. OF LUMINAIRES AS SHOWN & SCHEDULED
- S — SINGLE POLE SWITCH, + 48" A.F.F. (20A–120/277V)
- S_3 — THREE WAY SWITCH, + 48" A.F.F. (20A–120/277V)
- S_4 — 4–WAY SWITCH +48" AFF (20A–120/277V)
- S_P — SWITCH AND PILOT LIGHT (20A–120–/277V)
- S_K — SINGLE POLE SWITCH, KEY OPERATED (20A)
- DIMMER CONTROL, + 48" A.F.F. EQUAL TO LUTRON "NOVA" SERIES, SIZED TO MATCH LOAD SERVED
- VS — VARIABLE SPEED FAN CONTROL, +48" A.F.F.
- DUPLEX RECEPTACLE, + 18" A.F.F. (20A)
- DUPLEX RECEPTACLE ABOVE COUNTER, VERIFY HEIGHT. (20A)
- FOURPLEX RECEPTACLE, + 18" A.F.F. (20A)
- SPECIAL RECEPTACLE – SIZE & TYPE AS NOTED
- POWER FLUSH FLOOR OUTLET
- TELEPHONE OUTLET PLASTER RING AT + 18" A.F.F. HUBBELL #P12 COVERPLATE. 3/4"C TO CEILING SPACE UNLESS SHOWN WITH HOMERUNS.
- DATA SYSTEM OUTLET, 4" SQUARE BOX AND COVERPLATE, 3/4" C. TO CEILING SPACE UNLESS SHOWN WITH HOMERUN, + 18" A.F.F.
- TELE/DATA COMBO OUTLET, 4" SQUARE BOX AND COVERPLATE, 3/4" C. TO CEILING SPACE UNLESS SHOWN WITH HOMERUN, + 18" A.F.F.
- CABLE TELEVISION (CATV) OUTLET PLASTER RING AT + 18" A.F.F. U.N.O. HUBBELL COVERPLATE. 3/4"C TO CEILING SPACE UNLESS SHOWN WITH HOMERUNS.
- TELPHONE SYSTEM CONDUIT HOMERUN WITH NYLON PULLWIRE (1"C MIN UNO)
- TV — CLOSED CIRCUIT TV (CCTV) OUTLET SAME AS CATV OUTLET
- DOOR CHIME
- REMOTE CONTROL STATION @ +48" AFF
- DISCONNECT SWITCH, FUSE PER EQUIPMENT MANUFACTURERS RECOMMENDATION. OUTSIDE NEMA 3R – N.F. = NON–FUSED.
- COMBINATION STARTER AND FUSIBLE DISCONNECT SWITCH SIZE AS NOTED
- E — EQUIPMENT TERMINATION CONNECTION POINT VERIFY EXACT LOCATION LOAD AND VOLTAGE AS NOTED
- MOTOR
- SM — THERMAL PROTECTED SWITCH
- MOTOR STARTER – SHADING INDICATES F.B.O.
- DISTRIBUTION PANELBOARD.
- BRANCH CIRCUIT PANELBOARD.
- CONDUIT BELOW FLOOR OR UNDERGROUND
- CONDUIT IN WALL OR ABOVE CEILING
- HOMERUN TO PANEL, NEUTRAL AND PHASE WIRING DESIGNATION (SEE GROUNDING NOTE)
- CONDUIT TURNING UP
- CONDUIT TURNING DOWN
- CONDUIT STUB–OUT, MARK AND CAP AS DIRECTED
- GROUND WIRE (SIZE AS NOTED) EXTENDED AND CONNECTED TO APP'D GROUND

ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR (℄ OF OUTLET)
A.F.G.	ABOVE FINISHED GRADE (℄ OF OUTLET)
E.C.	EMPTY CONDUIT
G.F.I.	GROUND FAULT INTERRUPTER
WP	WEATHERPROOF
UNO	UNLESS OTHERWISE NOTED
NL	NIGHT LIGHT
TYP	TYPICAL
EDF	ELECTRIC DRINKING FOUNTAIN
TMB	TELEPHONE MOUNTING BOARD

Oct 24, 2018 - 1:38pm

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
1ST FLOOR	+	36 fc	96 fc	3 fc	32.0:1	12.0:1
2ND FLOOR	+	47 fc	73 fc	10 fc	7.3:1	4.7:1
BASEMENT	+	48 fc	73 fc	11 fc	6.6:1	4.4:1
EXTERIOR WALKWAY	+	4.0 fc	36.9 fc	0.1 fc	369.0:1	40.0:1

OUTLET MOUNTING HEIGHTS PER AMERICAN DISABILITY ACT

SWITCHES	+48" (MAX)
RECEPTACLES	+18" (MAX)
TELEPHONE	+18" (MAX)
SIDE REACH	+54" (MAX)

OUTLETS INSTALLED IN FIREWALLS

OUTLETS, (SWITCHES, RECEPTACLES, ETC.), MOUNTED IN FIRE RATED WALLS SHALL NOT OCCUPY THE SAME WALL CAVITY WITH OTHER OUTLES WHETHER ON SAME SIDE OR BACK–TO–BACK. RECOMMENDED SPACING IS 24 INCHES HORIZONTAL (MIN).

SITE RELATED WORK

PRIOR TO COMMENSING WORK AND/OR SUBMITTING BASE BID, THE CONTRACTOR SHALL VISIT THE SITE AND SATISFY HIMSELF TO EXISTING WORK RELATED CONDITIONS WITH REGARDS TO THE FOLLOWING:

1. TRENCH AND BACKFILL FOR CONDUITS PER UTILITY CO. REQUIREMENTS. (FIELD VERIFY)
2. TRANSFORMER MOUNTING PAD PER UTILITY CO. REQUIREMENTS.
3. PROVIDE SECONDARY AND/OR PRIMARY CONDUITS. (SEE ONE LINE DIAGRAM).
4. SERVICE ENTRANCE SECTION (S.E.S.). VERIFY PROPOSED EQUIPMENT WILL FIT THE SPACE ALLOTED PRIOR TO ORDERING AND/OR CONSTRUCTION.
5. P.V.C. TELEPHONE CONDUIT WITH PULL WIRE AND RIGID FACTORY STEEL BENDS PER TELEPHONE CO. REQUIREMENTS. (SIZE AS NOTED OR REQUIRED BY UTILITY VERIFY PRIOR TO INSTALLATION).
6. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION AND COMPLIANCE WITH ALL UTILITY COMPANIES REQUIREMENTS, INCLUDING, BUT NOT LIMITED TO ANY AND ALL ADDITIONAL COSTS FOR MATERIAL AND LABOR FOR WORK WHETHER SHOWN ON THE PLANS OR NOT. ACTUAL ROUTING, CONDUIT, TRENCH AND PAD REQUIREMENTS SHALL BE AS SPECIFIED BY UTILITY COMPANIES. VERIFY REQUIRMENTS WITH UTILITIES PRIOR TO INSTALLATION.
7. WHERE APPLICABLE, PROVIDE EQUIPMENT GROUNDING (BOND) CONDUCTOR FOR METALLIC PROCESSING AND FIRE SPRINKLER PIPING PER NEC 250–80 AND SIZED PER NEC 250–95 TABLE.

FIRE WALL/FLOOR PENETRATION

ALL PENETRATIONS OF FIRE RESISTIVE FLOORS OR SHAFT WALLS SHALL BE PROTECTED BY MATERIALS AND INSTALL–ATION DETAIL THAT CONFORM TO UNDERWRITERS LABOR–ATORY'S LISTINGS FOR THROUGH PENETRATION FIRESTOP SYSTEMS. THE CONTRACTOR SHALL SUBMIT SHOP DRAWING DETAILS WHICH SHOW COMPLETE CONFORMANCE WITH THE LISTING TO THE ARCHITECT AND SUCH DRAWINGS SHALL BE AVAILABLE TO THE LOCAL GOVERNING INSPECTORS. THE DRAWINGS SHALL BE SPECIFIC FOR EACH PENETRATION WITH ALL VARIABLES DEFINED.

SPECIFICATIONS

1. PRIOR TO SUBMITTING BID, SUBCONTRACTORS SHALL EXAMINE ALL GENERAL CONSTRUCTION DRAWINGS AND VISIT THE CONSTRUCTION SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS UNDER WHICH HE WILL HAVE TO OPERATE AND WHICH IN ANY WAY AFFECTS THE WORK UNDER HIS CONTRACT. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLIGENCE ON HIS PART.
2. THE SUBCONTRACTOR SHALL BE HELD FULLY RESPONSIBLE FOR THE PROPER RESTORATION OF ALL EXISTING SURFACES REQUIRING PATCHING, PLASTERING, PAINTING AND /OR OTHER REPAIR DUE TO THE INSTALLATION OF ELECTRICAL WORK UNDER THE TERMS OF THE CONTRACT. CLOSE ALL OPENINGS, REPAIR ALL SURFACES, ETC., AS REQUIRED.
3. SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, ELEVATIONS AND BUILDING DETAILS. VERIFY LOCATION OF ALL OUTLETS, SWITCHES, AND WALL MOUNTED LIGHTING FIXTURES WITH ARCHITECTURAL DRAWINGS AND ACTUAL CONDITIONS. VERIFY ALL CEILING TYPES WITH ARCHITECTURAL DRAWINGS BEFORE ORDERING FIXTURES.
4. PRIOR TO ROUGH–IN AND FINAL CONNECTION, VERIFY ELECTRICAL CHARACTERISTICS AND EXACT LOCATION OF EQUIPMENT.
5. GROUT AND SEAL ALL CONDUIT PENETRATIONS OF WALLS AND FLOOR SLABS TO PRESERVE FIRE RATING AND WATERTIGHT INTEGRITY.
6. BRANCH CIRCUIT WIRING SHALL BE THHN/THWN INSULATION. PANEL FEEDERS SHALL BE TYPE XHHW. ALL WIRE SHALL BE COPPER. MINIMUM WIRE SIZE SHALL BE #12.
7. ALL WIRING TO BE INSTALLED IN RACEWAYS. TYPE OF RACEWAY SHALL BE AS REQUIRED BY CODE. MINIMUM CONDUIT SIZE SHALL BE 1/2".
8. PROVIDE CODE SIZED BOND WIRE IN ALL EMT, FLEXIBLE CONDUIT, OR NM CABLES.
9. ALL ELECTRICAL EQUIPMENT SHALL BE NEW , U.L. APPROVED AND COMMERCIAL GRADE.
10. WIRE RATED FOR 150° CENTIGRADE SHALL BE USED FOR ALL INCANDESCENT LIGHTING FIXTURES.
11. ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST NATIONAL CODE, (N.E.C.), AND ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES.
12. PROVIDE TYPEWRITTEN DESCRIPTIVE PANEL DIRECTORIES

Schedule

Symbol	Label	Quantity (Verify)	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens Per Lamp	Light Loss Factor	Wattage
	A	47	Lithonia Lighting	2BLT2 40L SDSM LP835 GZ10	BLT 2x2, 4000 NOMINAL LUMENS, Square Smooth lens, 3500K CCT	LED	1	2BLT2_40L_SDSM_LP835.ies	4116	0.91	38.85
	AE	10	Lithonia Lighting	2BLT2 40L SDSM LP835 GZ10 EL14L	BLT 2x2, 4000 NOMINAL LUMENS, Square Smooth lens, 3500K CCT/ WITH BATTERY PACK	LED	1	2BLT2_40L_SDSM_LP835.ies	4116	0.91	38.85
	B	17	Gotham Architectural Lighting	EVO 35/10 4AR MD LSS GZ10	DOWNLIGHT 3500K CCT, 1000LM, 4IN CLEAR, MEDIUM DIST, SEMI–SPECULAR FINISH	LED	1	EVO_35_10_4AR_MD_LSS.ies	1200	0.91	12.86
	BE	13	Gotham Architectural Lighting	EVO 35/10 4AR MD LSS GZ10 EL	DOWNLIGHT 3500K CCT, 1000LM, 4IN CLEAR, MEDIUM DIST, SEMI–SPECULAR FINISH / WITH BATTERY PACK	LED	1	EVO_35_10_4AR_MD_LSS.ies	1200	0.91	12.86
	CE	4	Lithonia Lighting	WL4 40L LP835 EL14L	WL4 4ft 4000 NOMINAL LUMENS 3500K WITH BATTERY PACK	LED	1	WL4_40L_LP835.ies	4124	0.91	39.48
	D	3	Wac Lighting	WS–85624–AL	25" WALL MOUNTED VANITY FIXTURE 20.5 WATT LED	LED	1		1735	0.91	20.5
	D1	1	Wac Lighting	WS–85636–AL	37" WALL MOUNTED VANITY FIXTURE 30 WATT LED	LED	1		2561	0.91	30
	E	2	Gotham Architectural Lighting	EVO WW 35/10 4AR LSS GZ10	1000LM 80 CRI 3500K 4" EVO ROUND WALL WASH SEMI SPECULAR	LED	1	EVO_WW_35_10_4AR_LSS.ies	1136	0.91	12.8
	F	6	Lithonia Lighting	CLX L48 5000LM SEF RDL MVOLT GZ10 35K 80CRI	CLX LED Linear 48" 5,000 lumens, Standard Efficiency, Less louver, Round diffuse lens, General distribution, MVOLT, 0–10V dimming, 3500 CCT, 80 CRI	LED	1	CLX_L48_5000LM_SEF_RDL_MVOLT_GZ10_35K_80CRI.ies	4710	0.91	34.8
	G	29	Lithonia Lighting	CLX L96 8000LM SEF WDL MVOLT GZ10 35K 80CRI	CLX LED Linear 96" 8,000 lumens, Standard Efficiency, Less louver, Wide diffuse lens, General distribution, MVOLT, 0–10V dimming, 3500 CCT, 80 CRI	LED	1	CLX_L96_8000LM_SEF_WDL_MVOLT_GZ10_35K_80CRI.ies	7495	0.91	52.32
	H	16	Gotham Architectural Lighting	EVO 35/20 4AR WD LS EZB	DOWNLIGHT 3500K CCT, 2000LM, 4IN CLEAR, WIDE DIST, SPECULAR FINISH WITH DIM TO BLACK DRIVER	LED	1	EVO_35_20_4AR_WD_LS.ies	1949	0.91	23.5
	HE	10	Gotham Architectural Lighting	EVO 35/20 4AR WD LS EZB EL	DOWNLIGHT 3500K CCT, 2000LM, 4IN CLEAR, WIDE DIST, SPECULAR FINISH WITH DIM TO BLACK DRIVER/ WITH BATTERY PACK	LED	1	EVO_35_20_4AR_WD_LS.ies	1949	0.91	23.5
	J	4	Lithonia Lighting	LBL4 LP835 120	LOW PROFILE WRAPAROUD, 10"X 48", LED LAMPS & PRISMATIC LENS LBL4 4ft 4000 NOMINAL LUMENS 3500K	LED	1	LBL4_40L_LP835.ies	4124	0.91	41
	JE	2	Lithonia Lighting	LBL4 LP835 EL14L	LOW PROFILE WRAPAROUD, 10"X 48", LED LAMPS & PRISMATIC LENS WL4 4ft 4000 NOMINAL LUMENS 3500K/ WITH BATTERY PACK	LED	1	LBL4_40L_LP835.ies	4124	0.91	41
	K	36	BEGA	33 017 K3 (BRONZE)	33017K3 (STEP LIGHT)	LED	1	33017.ies	32	0.91	3
	LE	5	BEGA	3243LED/EMPK 120V BRZ 29.8 WATT LED 3000K 85 CRI EM BATTERY PACK	LED WALL MOUNT WITH INTEGRAL EM BATTERY PACK BRONZE	LED	1		4018	0.91	29.8
	M	2	Lithonia Lighting	LDN6 35/10 L06AR LSS MVOLT	1000 LM 80CRI 3500K 6" LED, COMMERCIAL DOWNLIGHT	LED	1	LDN6_35_10_L06AR.ies	1200	0.91	18.0
			Lithonia Lighting	ELMLT W LP06VS LTP	QUANTUM LED EMERGENCY TWIN–HEAD UNIT WALL MOUNT	LED	1				1.5
			Lithonia Lighting EMERGENCY EXIT LIGHT	LQM S W 1 R 120 EL N 120V LED & (2) 6W HAL. LAMPS FURNISHED WITH UNIT	EMERGENCY COMBINATION EXIT SIGN WHITE HOUSING RED LETTERS CEILING OR WALL MOUNT AT 1'–0" ABOVE DOOR	LHQM_LED.ies					

EXIST. POLE

EXISTING POLE MOUNTED TRANSFORMER UTILITY Co. TO REPLACE TRANSFORMERS IF REQUIRED FIELD VERIFY REQUIREMENTS PRIOR TO ROUGH–IN.

ONE LINE KEYNOTES:

1. A PERMANENT LABEL HAS BEEN PROVIDED READING "THIS CIRCUIT BREAKER IS PART OF A SERIES RATED SYSTEM WITH DOWNSTREAM PANELS 42/10K, 42,000 AMPS AVAILABLE. IDENTIFIED REPLACEMENT COMPONENT REQUIRED"
2. A PERMANENT LABEL HAS BEEN PROVIDED READING "CAUTION–SERIES RATED SYSTEM 42/10 IDENTIFIED REPLACEMENT COMPONENTS REQUIRED"

ONE LINE GENERAL NOTES:

1. SYSTEM SHOWN IS A TWO TIER SERIES RATED SYSTEM 42/10K. MANUFACTURER HAS PROVIDED A UL LISTED SYSTEM TO MATCH THIS RATING.
2. MOTOR SHORT CIRCUIT CONTRIBUTION IS LESS THAN 1% OF SYSTEM SHORT CIRCUIT AMPS.
3. NO DESIGN CHANGES MAY BE MADE TO THE SYSTEM

AVAILABLE Isc = 33,789 AMPS PER TABLES

U.G. PULL SECTION WITH METER

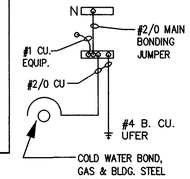
SERVICE ENTRANCE SECTION 'SES'
600A – 120/208V – 3 PHASE – 4WIRE
NEMA 3R BRACED FOR 42,000 AIC MIN.
EQUAL TO CUTLER–HAMMER MFG. CO.

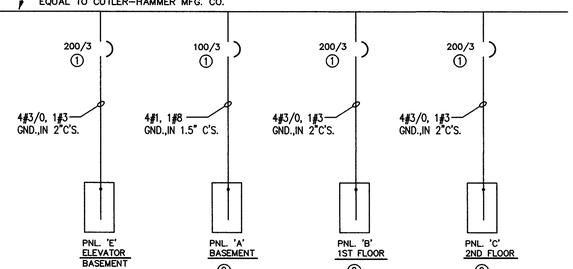
ELEC. LOAD CALCULATIONS

	øA	øB	øC
PANEL 'A'	90.2 A	85.4 A	74.4 A
PANEL 'B'	102.9 A	109.5 A	109.8 A
PANEL 'C'	182.1 A	193.5 A	176.4 A
PANEL 'E' (ELEVATOR PNL.)	109.9 A	95.7 A	95.6 A
TOTAL CODE LOAD =	485.1 A	484.1 A	456.2 A

UNDERGROUND SERVICE PRIMARY ELEC. CONTR. TO PROVIDE 2–4" EMPTY CONDUITS, TRENCH & BACKFILL TO POINT OF FEED AS DIRECTED BY UTILITY Co.

FIELD VERIFY DIST.





ELECTRICAL ONE–LINE DIAGRAM

N.T.S.

ELECTRICAL DESIGN & CADD SERVICES INC.
1600 LAMB LANE
PRESCOTT, AZ. 86305
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FAX (928) 778–7800
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JOB# 18–39

REVISIONS	BY

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ANGELO OSSANNA 7450 REGISTERED ARIZONA ELECTRICAL CONTRACTOR EXPIRES 8/31/19

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F 928-443-5815 Prescott, AZ 86304
email: waka@cableone.net
www.kenson-associates.com
ARCHITECTURE & PLANNING

DRAWING: Electrical One Line Diagram, Symbols, Calc's, Panel Schedules & Notes

PROJECT: Sharlot Hall Education Center Addition, 415 W. Gurley St. Prescott, AZ, 86301

APN: 109-02-035

DRAWN BY	R.A.
CHECKED BY	A.O.
DATE	July 3rd, 2018
JOB NO.	710
SHEET	E1.0

ELECTRICAL DESIGN & CADD SERVICES INC.
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CERTIFICATE OF REGISTRATION
7650
ANGELO OSSANNA
ARIZONA U.S.A.
EXPIRES: 06/30/19

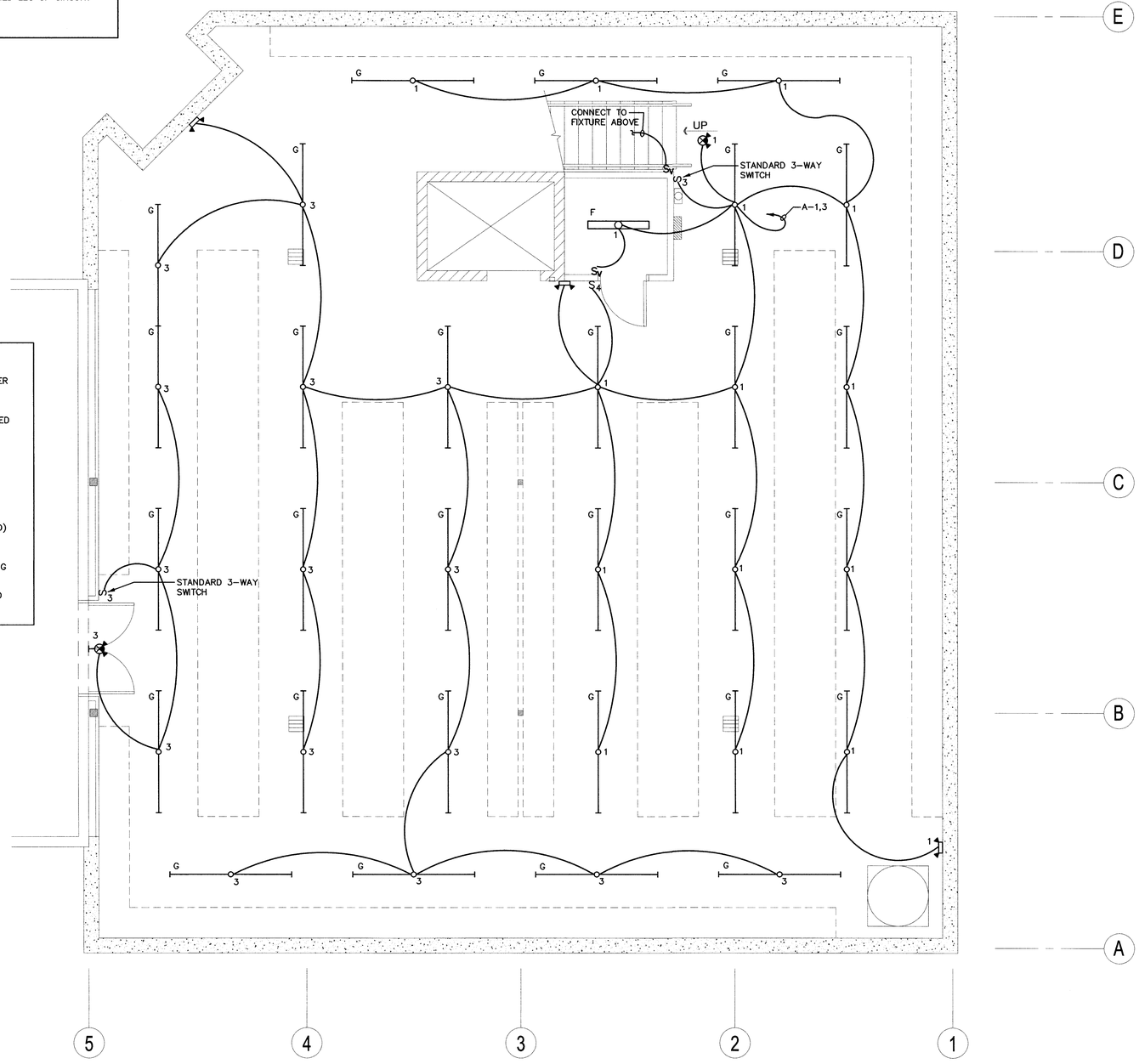
GENERAL LIGHTING NOTES:

1. CONTRACTOR SHALL VERIFY ALL MOUNTING HEIGHTS EXACT LOCATION AND REQUIREMENTS OF ALL LIGHTING FIXTURES AND SWITCHES WITH OWNER PRIOR TO ROUGH-IN.
2. NIGHT LIGHTS (NL), EMERGENCY & EXIT LIGHT FIXTURES SHALL BE CONNECTED TO UNSWITCHED LEG OF CIRCUIT.
3. ROMEX IS NOT ALLOWED.

LIGHTING CONTROL DEVICE LEGEND:
VERIFY COLOR WITH ARCHITECT/OWNER

- (V) CEILING MOUNTED VACANCY SENSOR SENSOR SWITCH nCM PDT 10 RJB (TURNS LIGHTS OFF WHEN UNOCCUPIED FOR 30 MINUTES)
- S_D WALL MOUNTED DIMMER SENSOR SWITCH SPODM-SA-D MANUAL ON/OFF DIMMING CONNECT TO CEILING MOUNTED VACANCY SENSOR
- S_V WALL MOUNTED VACANCY SENSOR SENSOR SWITCH WSX-SA-WH (MANUAL ON, OFF WHEN UNOCCUPIED)
- S WALL MOUNTED SWITCH SENSOR INTERFACE SWITCH SPODM MANUAL ON/OFF CONNECT TO CEILING MOUNTED VACANCY SENSOR

PROVIDE POWER PACKS AS REQUIRED FOR INTERFACE BETWEEN DEVICES



Basement Lighting Plan

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

Plan North

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ARCHITECTURE & PLANNING

DRAWING: Basement Lighting Plan

PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ. 86301

APN: 109-02-035

DRAWN BY: R.A.
CHECKED BY: A.O.
DATE: July 3rd, 2018
JOB NO. 710
SHEET: E1.1

Oct 24, 2018 - 6:08pm

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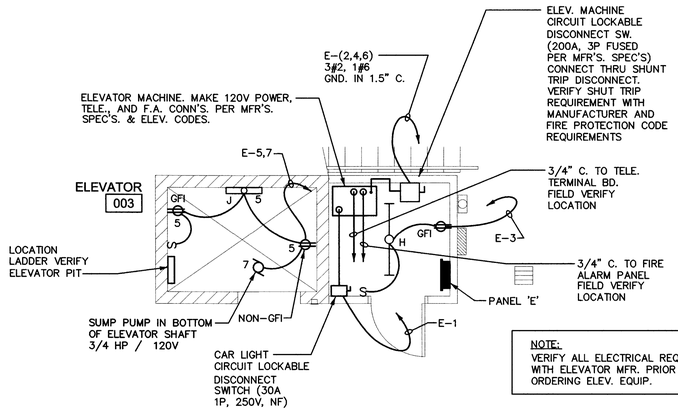
REVISIONS	BY

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GENERAL POWER NOTES:

1. ELECTRICAL CONTRACTOR SHALL VERIFY MOUNTING HEIGHT OR LOCATION OF ANY ELECTRICAL EQUIPMENT AND OR DEVICES HE IS TO VERIFY ITEMS WITH ELECTRICAL ENGINEER, ARCHITECT OR OWNER PRIOR TO ROUGH-IN.
2. ALL RECEPTACLES AT RESTROOM LAVATORIES TO BE GFCI TYPE INSTALLED AT +42" A.F.F.
3. ALL RECEPTACLES IN AREAS WITHIN 6'-0" OF A SINK SHALL BE GFCI TYPE PER NEC
4. EXTERIOR & ROOF MOUNTED MAINT. RECEPT'S. SHALL BE WP, GFCI TYPE PER NEC
5. VERIFY THE EXACT LOCATIONS OF ALL TELEPHONE OUTLETS, DATA OUTLETS AND SPECIAL SYSTEMS OUTLETS WITH THE ARCHITECT/OWNER PRIOR TO ROUGH-IN.
6. ELECTRICAL CONTRACTOR SHALL VERIFY MECHANICAL EQUIPMENT REQUIREMENTS BREAKER, DISC. & WIRE SIZE WITH MANUFACTURER PRIOR TO ROUGH-IN.
8. ELECTRICAL CONTRACTOR IS APPROVED TO USE SURFACE MOUNTED RECEPTACLES & CONDUIT IN BASEMENT.



GENERAL NOTE:
ELECTRICAL CONTRACTOR SHALL REVIEW (ADOSH) DIVISION OF OCCUPATIONAL SAFETY & HEALTH NEW INSTALLATION & ALTERATION CHECKLIST FOR ELEVATOR INSTALLATION REQUIREMENTS PRIOR TO ROUGH-IN.
CONTACT PERSON:
DARIN PERKINS-(602)542-1614

NOTE:
VERIFY ALL ELECTRICAL REQUIREMENTS WITH ELEVATOR MFR. PRIOR TO ORDERING ELEV. EQUIP.

Elevator Equipment Room Layout

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

Plan North

PANELBOARD E SCHEDULE

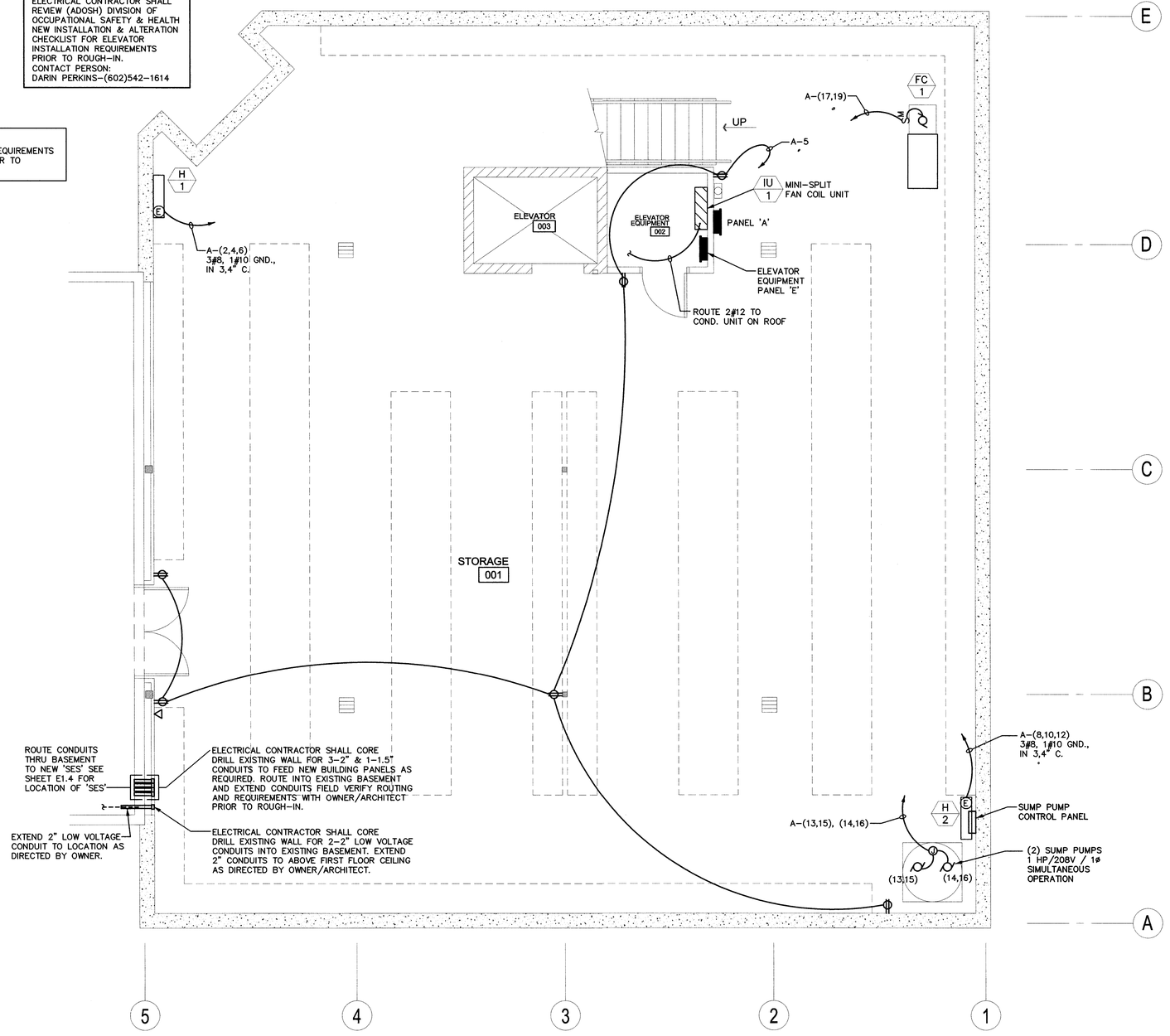
MAINS:	200A MLO		LOAD-VA				LOCATION:	SEE PLAN	
VOLTAGE:	120/208V, 3ø, 4W						MOUNTING:	SURFACE	
TYPE:	SIEMENS, SQ. D OR EQUAL						MIN. A.I.C.:	42/10K FULLY RATED	
CIRCUIT DESCRIPTION	BKR.	CIR. NO.	ØA	ØB	ØC	CIR. NO.	BKR.	CIRCUIT DESCRIPTION
* ELEVATOR CAR LIGHTS	20/1	1	500			2	125	ELEVATOR MOTOR *
MACHINE ROOM LIGHT & RECEPTACLE		3		250		4		30 HP, 92.0A, 208V, 3ø
ELEVATOR PIT LIGHT & RECEPTACLE		5			430	6	3	VERIFY BRK./WIRE SIZE W/ELEV. MFR.
ELEVATOR SUMP PUMP		7	1656			8	20/1	SPARE
ELEVATOR EQUIPMENT TELE./F.A. (VERIFY)		9		200		10		
SPARE		11				12		
SPACE		13				14		SPACE
		15				16		
		17				18		
		19				20		
		21				22		
		23				24		
		25				26		
		27				28		
		29				30		
TOTAL LOAD PER PHASE:			13196	11490	11470	HI# 13196 / 120 = 109.9 AMPS		

PANELBOARD A SCHEDULE

MAINS:	125A MLO		LOAD-VA				LOCATION:	SEE PLAN	
VOLTAGE:	120/208V, 3ø, 4W						MOUNTING:	SURFACE	
TYPE:	SIEMENS, SQ. D OR EQUAL						MIN. A.I.C.:	42/10K SERIES RATED	
CIRCUIT DESCRIPTION	BKR.	CIR. NO.	ØA	ØB	ØC	CIR. NO.	BKR.	CIRCUIT DESCRIPTION
LIGHTS	20/1	1	950			2	40	DEHUMIDIFIER H-1
LIGHTS		3	3732	950		4		31.1 MCA, 208V, 3ø
RECEPT'S.		5		3732	1080	6	3	
FIRE ALARM PANEL		7	200		3732	8	40	DEHUMIDIFIER H-2
SPARE		9	3732			10		31.1 MCA, 208V, 3ø
SPARE		11		3732		12	3	
SUMP PUMP	15/2	13	915		3732	14	15/2	SUMP PUMP
1 HP, 208V, 1ø		15	915	915		16		1 HP, 208V, 1ø
FAN COIL UNIT FC-1	15/2	17		915	380	18		SPACE
1/4 HP, 208V, 1ø		19	380			20		
SPACE		21				22		
		23				24		
		25				26		
		27				28		
		29				30		
TOTAL LOAD PER PHASE:			10824	10244	8924	HI# 10824 / 120 = 90.2 AMPS		

PANELBOARD SYMBOLS

* CONTINUOUS DUTY/LARGEST MOTOR @ 125%
☐ HACR TYPE CIRCUIT BREAKER



Basement Power Plan

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

Plan North

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ARCHITECTURE & PLANNING

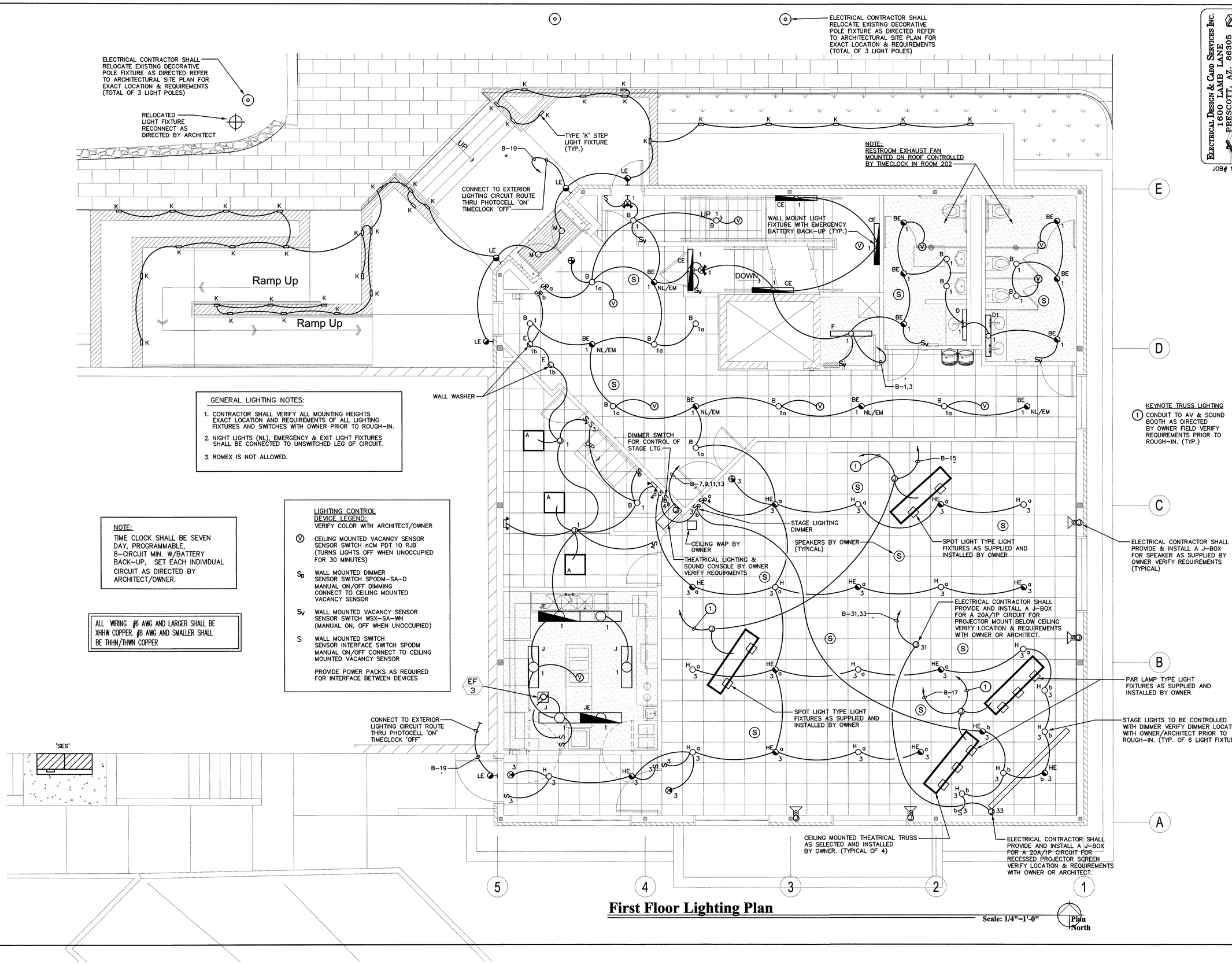
DRAWING: Basement Power Plan

PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ. 86301

APN: 109-02-035

DRAWN BY	R.A.
CHECKED BY	A.O.
DATE	July 3rd, 2018
JOB NO.	710
SHEET	E1.2

Oct 24, 2018 - 1:37pm



GENERAL LIGHTING NOTES:

1. CONTRACTOR SHALL VERIFY ALL MOUNTING HEIGHTS EXACT LOCATION AND REQUIREMENTS OF ALL LIGHTING FIXTURES AND SWITCHES WITH OWNER PRIOR TO ROUGH-IN.
2. NIGHT LIGHTS (NL), EMERGENCY & EXIT LIGHT FIXTURES SHALL BE CONNECTED TO UNSWITCHED LEG OF CIRCUIT.
3. ROMEX IS NOT ALLOWED.

NOTE:
TIME CLOCK SHALL BE SEVEN DAY, PROGRAMMABLE, 8-CIRCUIT MIN. W/BATTERY BACK-UP, SET EACH INDIVIDUAL CIRCUIT AS DIRECTED BY ARCHITECT/OWNER.

ALL WIRING #6 AWG AND LARGER SHALL BE XHHW COPPER. #8 AWG AND SMALLER SHALL BE THHN/THWN COPPER

LIGHTING CONTROL DEVICE LEGEND:
VERIFY COLOR WITH ARCHITECT/OWNER

- (V) CEILING MOUNTED VACANCY SENSOR SENSOR SWITCH nCM PDT 10 RJB (TURNS LIGHTS OFF WHEN UNOCCUPIED FOR 30 MINUTES)
- S_D WALL MOUNTED DIMMER SENSOR SWITCH SPODM-SA-D MANUAL ON/OFF DIMMING CONNECT TO CEILING MOUNTED VACANCY SENSOR
- S_V WALL MOUNTED VACANCY SENSOR SENSOR SWITCH WSX-SA-WH (MANUAL ON, OFF WHEN UNOCCUPIED)
- S WALL MOUNTED SWITCH SENSOR INTERFACE SWITCH SPODM MANUAL ON/OFF CONNECT TO CEILING MOUNTED VACANCY SENSOR

PROVIDE POWER PACKS AS REQUIRED FOR INTERFACE BETWEEN DEVICES

KEYNOTE TRUSS LIGHTING

(1) CONDUIT TO AV & SOUND BOOTH AS DIRECTED BY OWNER FIELD VERIFY REQUIREMENTS PRIOR TO ROUGH-IN. (TYP.)

First Floor Lighting Plan

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

Plan North

Oct 24, 2018 - 1:35pm

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JOB# 18-39

REVISIONS	BY

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CERTIFICATE NO. 7450 ANGELO OSSANNA

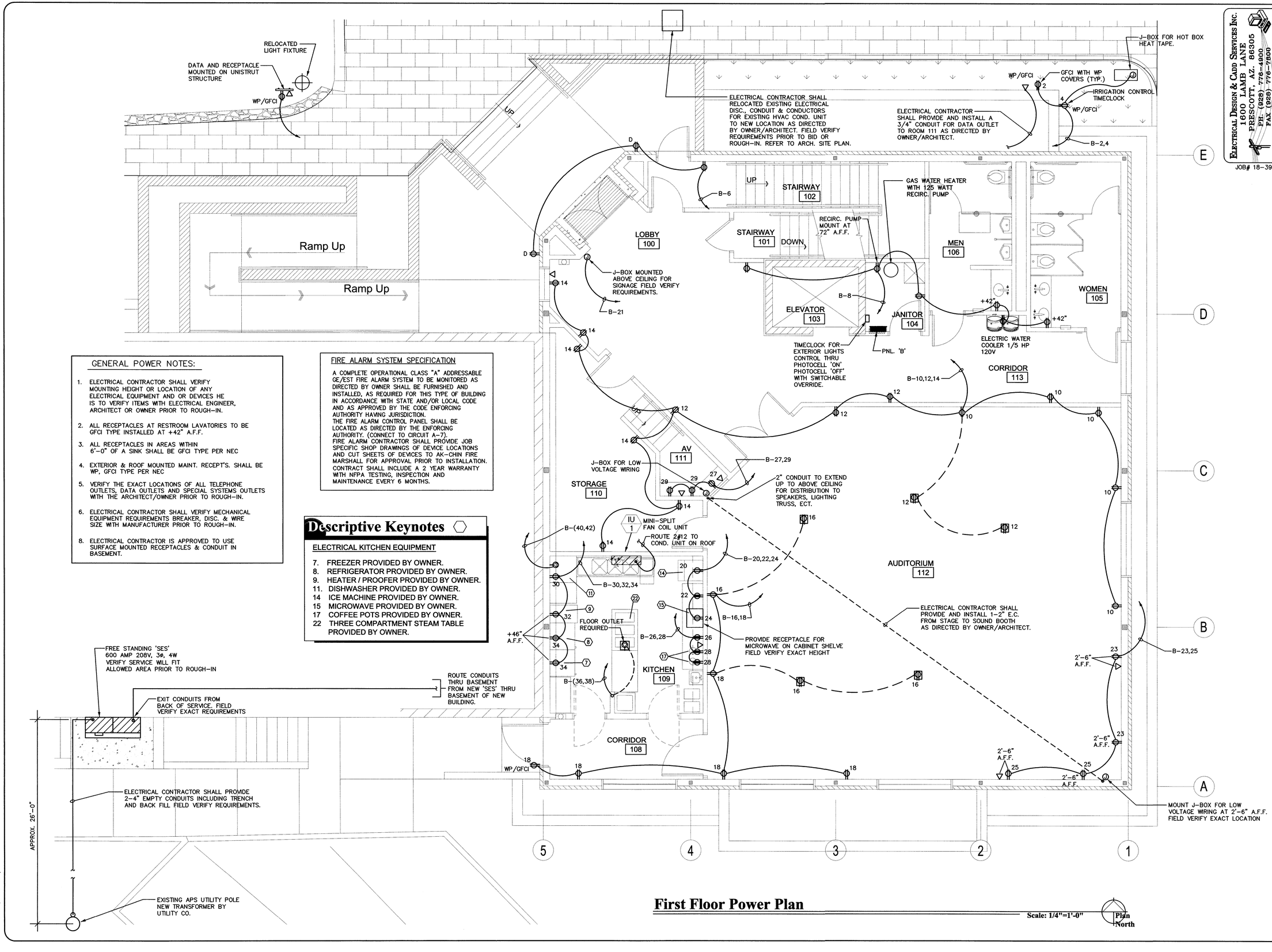
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ARCHITECTURE & PLANNING

DRAWING: First Floor Lighting Plan

PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ. 86301

APN: 109-02-035

DRAWN BY	R.A.
CHECKED BY	A.O.
DATE	July 3rd, 2018
JOB NO.	710
SHEET	E1.3



GENERAL POWER NOTES:

1. ELECTRICAL CONTRACTOR SHALL VERIFY MOUNTING HEIGHT OR LOCATION OF ANY ELECTRICAL EQUIPMENT AND OR DEVICES HE IS TO VERIFY ITEMS WITH ELECTRICAL ENGINEER, ARCHITECT OR OWNER PRIOR TO ROUGH-IN.
2. ALL RECEPTACLES AT RESTROOM LAVATORIES TO BE GFCI TYPE INSTALLED AT +42" A.F.F.
3. ALL RECEPTACLES IN AREAS WITHIN 6'-0" OF A SINK SHALL BE GFCI TYPE PER NEC
4. EXTERIOR & ROOF MOUNTED MAINT. RECEPT'S. SHALL BE WP, GFCI TYPE PER NEC
5. VERIFY THE EXACT LOCATIONS OF ALL TELEPHONE OUTLETS, DATA OUTLETS AND SPECIAL SYSTEMS OUTLETS WITH THE ARCHITECT/OWNER PRIOR TO ROUGH-IN.
6. ELECTRICAL CONTRACTOR SHALL VERIFY MECHANICAL EQUIPMENT REQUIREMENTS BREAKER, DISC. & WIRE SIZE WITH MANUFACTURER PRIOR TO ROUGH-IN.
8. ELECTRICAL CONTRACTOR IS APPROVED TO USE SURFACE MOUNTED RECEPTACLES & CONDUIT IN BASEMENT.

FIRE ALARM SYSTEM SPECIFICATION

A COMPLETE OPERATIONAL CLASS "A" ADDRESSABLE GE/EST FIRE ALARM SYSTEM TO BE MONITORED AS DIRECTED BY OWNER SHALL BE FURNISHED AND INSTALLED, AS REQUIRED FOR THIS TYPE OF BUILDING IN ACCORDANCE WITH STATE AND/OR LOCAL CODE AND AS APPROVED BY THE CODE ENFORCING AUTHORITY HAVING JURISDICTION.
THE FIRE ALARM CONTROL PANEL SHALL BE LOCATED AS DIRECTED BY THE ENFORCING AUTHORITY. (CONNECT TO CIRCUIT A-7).
FIRE ALARM CONTRACTOR SHALL PROVIDE JOB SPECIFIC SHOP DRAWINGS OF DEVICE LOCATIONS AND CUT SHEETS OF DEVICES TO AK-CHIN FIRE MARSHALL FOR APPROVAL PRIOR TO INSTALLATION.
CONTRACT SHALL INCLUDE A 2 YEAR WARRANTY WITH NFPA TESTING, INSPECTION AND MAINTENANCE EVERY 6 MONTHS.

Descriptive Keynotes

ELECTRICAL KITCHEN EQUIPMENT

7. FREEZER PROVIDED BY OWNER.
8. REFRIGERATOR PROVIDED BY OWNER.
9. HEATER / PROOFER PROVIDED BY OWNER.
11. DISHWASHER PROVIDED BY OWNER.
14 ICE MACHINE PROVIDED BY OWNER.
15 MICROWAVE PROVIDED BY OWNER.
17 COFFEE POTS PROVIDED BY OWNER.
22 THREE COMPARTMENT STEAM TABLE PROVIDED BY OWNER.

First Floor Power Plan

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

Plan North

Oct 25, 2018 - 1:41pm

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Registered Professional Engineering Consultant
CERTIFICATE NO.
7450
ANGELO OSSANNA
Date Signed 12/7/18
ARIZONA, U.S.A.
Expires 12-31-19

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ARCHITECTURE & PLANNING

DRAWING: First Floor Power Plan

PROJECT: Sharlot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ, 86301

APN: 109-02-035

DRAWN BY	R.A.
CHECKED BY	A.O.
DATE	July 3rd, 2018
JOB NO.	710
SHEET	E1.4

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Registered Architect | Engineer | Interior Designer
7450
ANGELO
OSSANNA
Sept 7, 18
ARIZONA, U.S.A.

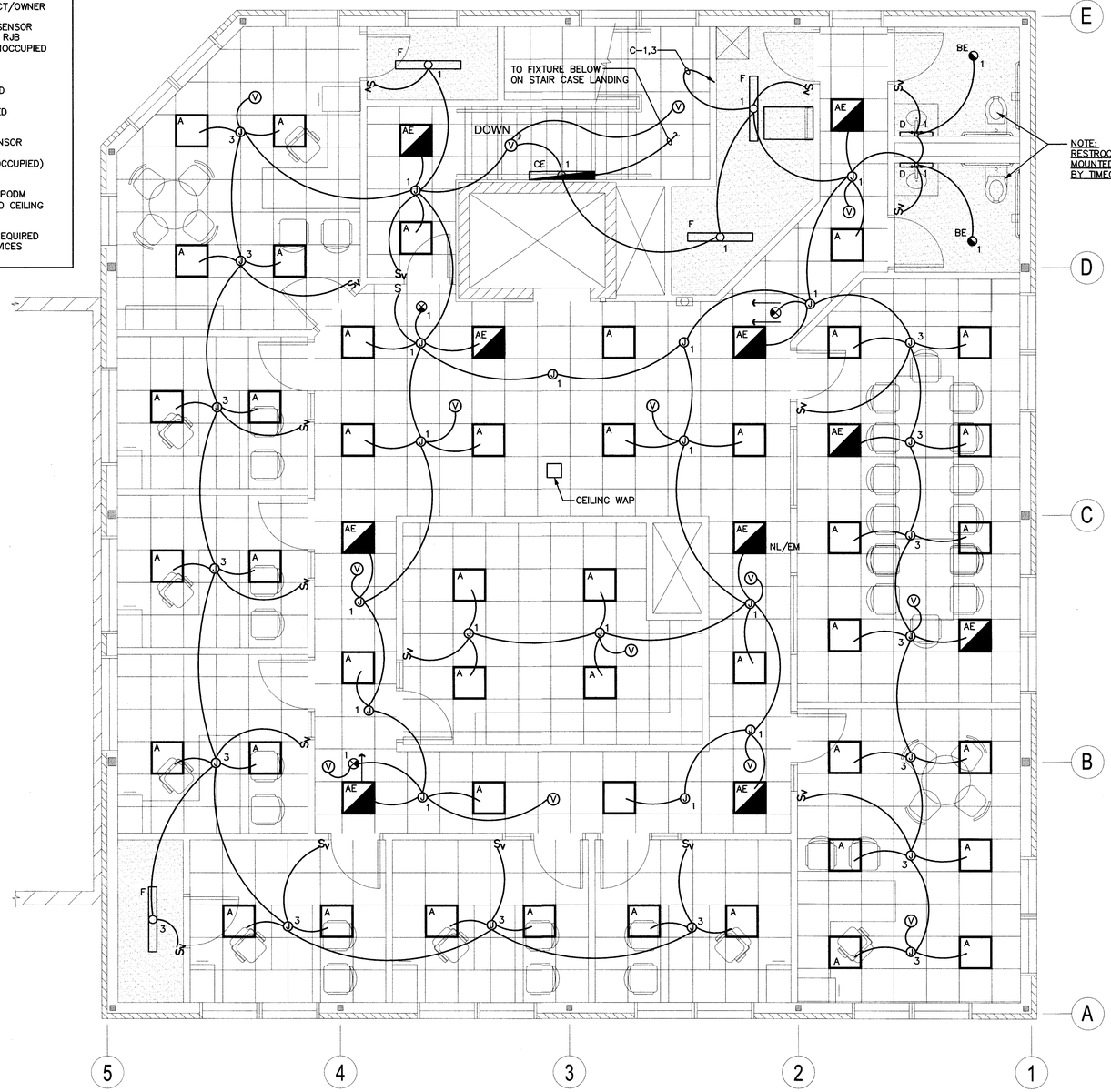
GENERAL LIGHTING NOTES:

1. CONTRACTOR SHALL VERIFY ALL MOUNTING HEIGHTS EXACT LOCATION AND REQUIREMENTS OF ALL LIGHTING FIXTURES AND SWITCHES WITH OWNER PRIOR TO ROUGH-IN.
2. NIGHT LIGHTS (NL), EMERGENCY & EXIT LIGHT FIXTURES SHALL BE CONNECTED TO UNSWITCHED LEG OF CIRCUIT.
3. ROMEX IS NOT ALLOWED.

LIGHTING CONTROL DEVICE LEGEND:
VERIFY COLOR WITH ARCHITECT/OWNER

- (V) CEILING MOUNTED VACANCY SENSOR SENSOR SWITCH nCM PDT 10 RJB (TURNS LIGHTS OFF WHEN UNOCCUPIED FOR 30 MINUTES)
- S_D WALL MOUNTED DIMMER SENSOR SWITCH SPODM-SA-D MANUAL ON/OFF DIMMING CONNECT TO CEILING MOUNTED VACANCY SENSOR
- S_V WALL MOUNTED VACANCY SENSOR SENSOR SWITCH WSX-SA-WH (MANUAL ON, OFF WHEN UNOCCUPIED)
- S WALL MOUNTED SWITCH SENSOR INTERFACE SWITCH SPODM MANUAL ON/OFF CONNECT TO CEILING MOUNTED VACANCY SENSOR

PROVIDE POWER PACKS AS REQUIRED FOR INTERFACE BETWEEN DEVICES



PANELBOARD B SCHEDULE

MAINS: 200A MLO
VOLTAGE: 120/208V, 3ø, 4W
TYPE: SIEMENS, SQ D OR EQUAL
LOAD-VA

LOCATION: 1ST FLOOR SEE PLAN
MOUNTING: SURFACE
MIN. A.I.C.: 42/10K SERIES RATED

CIRCUIT DESCRIPTION	BKR.	CIR. NO.	øA	øB	øC	CIR. NO.	BKR.	CIRCUIT DESCRIPTION
LIGHTS - 1ST FLR CORR., RR, KITCHEN	20/1	1	1233			2	20/1	RECEPT'S. - EXTERIOR & HOT BOX
		3	500			4		- IRRIGATION CONTROLLER
LIGHTS - AUDITORIUM		5		780		6		SPARE
		7		400		8		
SPARE		9	1500			10		RECEPT'S. - GENERAL & EDF
LIGHTS - AUDITORIUM TRUSS FIXTURES		11	1200			12		- GENERAL
		13		1500		14		- GENERAL
		15		900		16		- GENERAL
		17			1500	18		- GENERAL AUDITORIUM
THEATRICAL TRUSS LIGHTING		19	1500			20		- GENERAL AUDITORIUM
		21	720			22		- ICE MAKER
THEATRICAL TRUSS LIGHTING		23			1500	24		- KITCHEN COUNTER
		25			900	26		- KITCHEN MICROWAVE
LIGHTS - EXTERIOR		27	260			28		- KITCHEN COUNTER
		29	1140			30		- KITCHEN COFFEE MAKER
BLDG. SIGNAGE (VERIFY REQMT'S.)		31		1500		32		- KITCHEN DISHWASHER
		33		360		34		- KITCHEN PROOFER
RECEPT'S. - STAGE		35			360	36		- KITCHEN REFRIG. & FREEZER
		37			1500	38	20/2	3-COMPARTMENT STEAM TABLE
- STAGE		39	360			40		
		41	360			42	50/2	KITCHEN DISH WASHER
- AV ROOM				180				(VERIFY BREAKER SIZE & LOAD)
				360				
- AV ROOM					360			
					1920			
PROJECTOR		31	600					
			1500					
PROJECTOR SCREEN		33		1000				
				828				
SPACE		35			1125			
		37	1125					
		39		3120				
		41			3120			
TOTAL LOAD PER PHASE:			12358	13148	13185			H# 13185 / 120 = 109.9 AMPS

PANELBOARD SYMBOLS

- * CONTINUOUS DUTY/LARGEST MOTOR @ 125%
- ● PROVIDE BREAKER W/ HANDLE "LOCK-ON" DEVICE
- ◆ CIRCUIT VIA TIMECLOCK
- ▲ CIRCUIT VIA PHOTOCELL
- □ HACR TYPE CIRCUIT BREAKER
- ⬡ KITCHEN EQUIPMENT @ 65% per nec 220-20
- ○ EXISTING BREAKER W/ EXISTING LOAD
- △ NEW BREAKER W/ NEW LOAD

Second Floor Lighting Plan

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

Plan North

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ARCHITECTURE & PLANNING

DRAWING: Second Floor Lighting Plan

PROJECT: Shariot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ. 86301

APN: 109-02-035

DRAWN BY: R.A.
CHECKED BY: A.O.
DATE: July 3rd, 2018
JOB NO. 710
SHEET

E1.5

Oct 24, 2018 - 1:33pm

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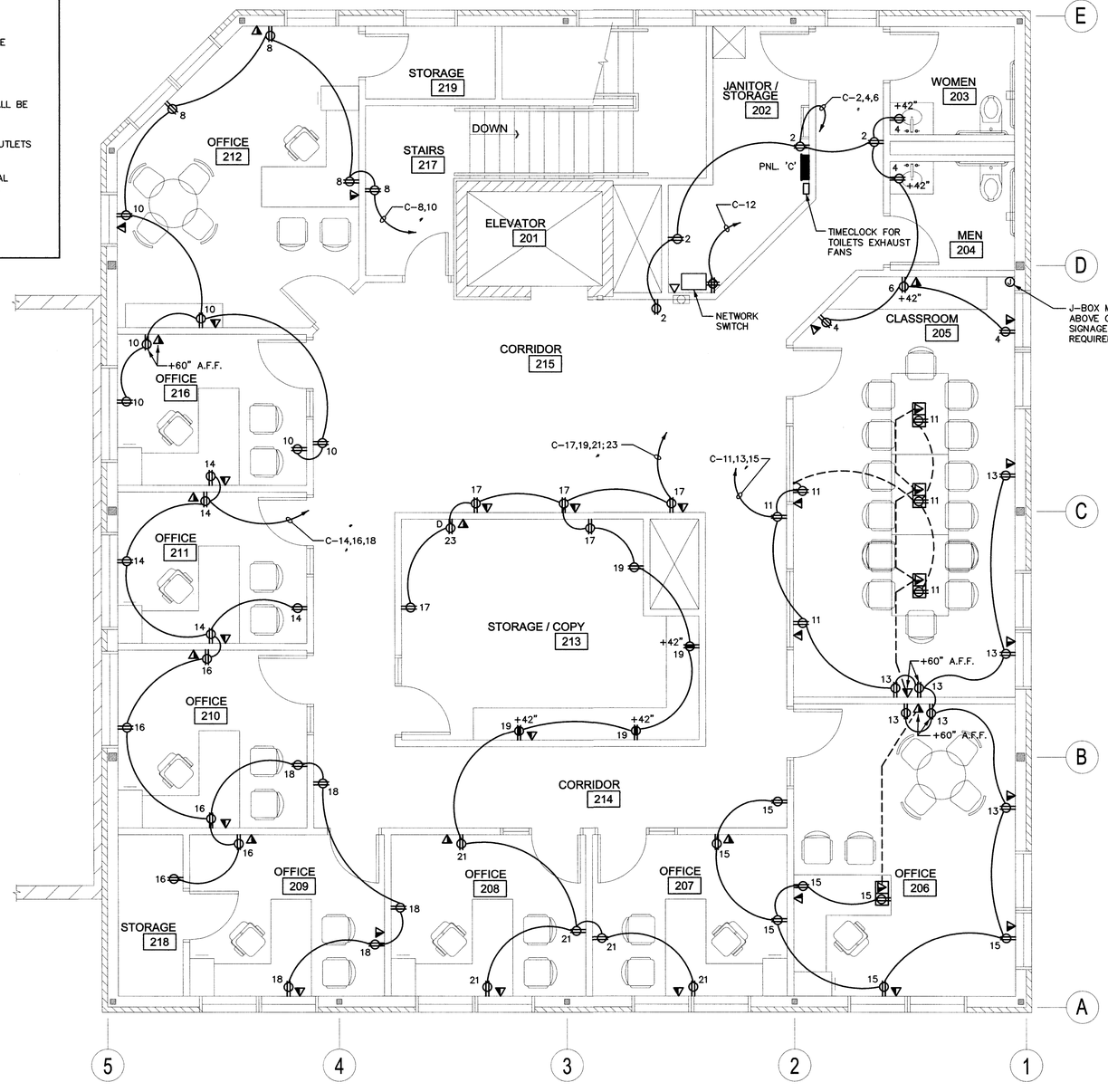
GENERAL POWER NOTES:

1. ELECTRICAL CONTRACTOR SHALL VERIFY MOUNTING HEIGHT OR LOCATION OF ANY ELECTRICAL EQUIPMENT AND OR DEVICES HE IS TO VERIFY ITEMS WITH ELECTRICAL ENGINEER, ARCHITECT OR OWNER PRIOR TO ROUGH-IN.
2. ALL RECEPTACLES AT RESTROOM LAVATORIES TO BE GFCI TYPE INSTALLED AT +42" A.F.F.
3. ALL RECEPTACLES IN AREAS WITHIN 6'-0" OF A SINK SHALL BE GFCI TYPE PER NEC
4. EXTERIOR & ROOF MOUNTED MAINT. RECEPT'S. SHALL BE WP, GFCI TYPE PER NEC
5. VERIFY THE EXACT LOCATIONS OF ALL TELEPHONE OUTLETS, DATA OUTLETS AND SPECIAL SYSTEMS OUTLETS WITH THE ARCHITECT/OWNER PRIOR TO ROUGH-IN.
6. ELECTRICAL CONTRACTOR SHALL VERIFY MECHANICAL EQUIPMENT REQUIREMENTS BREAKER, DISC. & WIRE SIZE WITH MANUFACTURER PRIOR TO ROUGH-IN.
8. ELECTRICAL CONTRACTOR IS APPROVED TO USE SURFACE MOUNTED RECEPTACLES & CONDUIT IN BASEMENT.

PANELBOARD C SCHEDULE

MAINS: 225A MLO
VOLTAGE: 120/208V, 3ø, 4W
TYPE: SIEMENS, SQ D OR EQUAL
LOAD-VA
LOCATION: 2ND FLOOR SEE PLAN
MOUNTING: SURFACE
MIN. A.I.C.: 42/10K SERIES RATED

CIRCUIT DESCRIPTION	BKR.	CIR. NO.	ØA	ØB	ØC	CIR. NO.	BKR.	CIRCUIT DESCRIPTION
LIGHTS	20/1	1	1500			2	20/1	RECEPT'S. -
LIGHTS		3		1200		4		
SPARE		5			360	6		
SPARE		7	900			8		
SPARE		9		1080		10		
RECEPT'S. -		11			1080	12		SPARE
		13	1250			14		
		15		1260		16		
		17			900	18		
		19	720			20	20/2	DUCT FREE MINI-SPLIT A/C UNIT OU-2
		21	900	1612		22		15.5 MCA, 208V, 1ø
		23			360	24	20/1	TOILET EXHAUST FAN EF-2
PACKAGE A/C UNIT AC-1	30/3	25	2472			26	20/1	RECEPT'S. - ROOF MOUNTED
20.6 MCA, 208V, 3ø		27		2472		28	40/3	PACKAGE A/C UNIT AC-2
		29			2472	30		27.2 MCA, 208V, 3ø
PACKAGE A/C UNIT AC-3	50/3	31	3876			32		
32.3 MCA, 208V, 3ø		33		3876		34	30/3	PACKAGE A/C UNIT AC-4
		35			3876	36		20.6 MCA, 208V, 3ø
SPLIT SYSTEM COND. UNIT CU-1	25/3	37	1800			38		
15.0 MCA, 208V, 3ø		39		1800		40	20/2	DUCT FREE MINI-SPLIT A/C UNIT OU-1
		41			1800	42		16.0 MCA, 208V, 1ø
TOTAL LOAD PER PHASE:			21856	23220	21164	HI# 23220 / 120 = 193.5 AMPS		



Second Floor Power Plan

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

Plan North

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ARCHITECTURE & PLANNING

DRAWING: Second Floor Power Plan

PROJECT: Shariot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ, 86301

APN: 109-02-035

DRAWN BY	R.A.
CHECKED BY	A.O.
DATE	July 3rd, 2018
JOB NO.	710
SHEET	E1.6

Oct 24, 2018 - 1:32pm

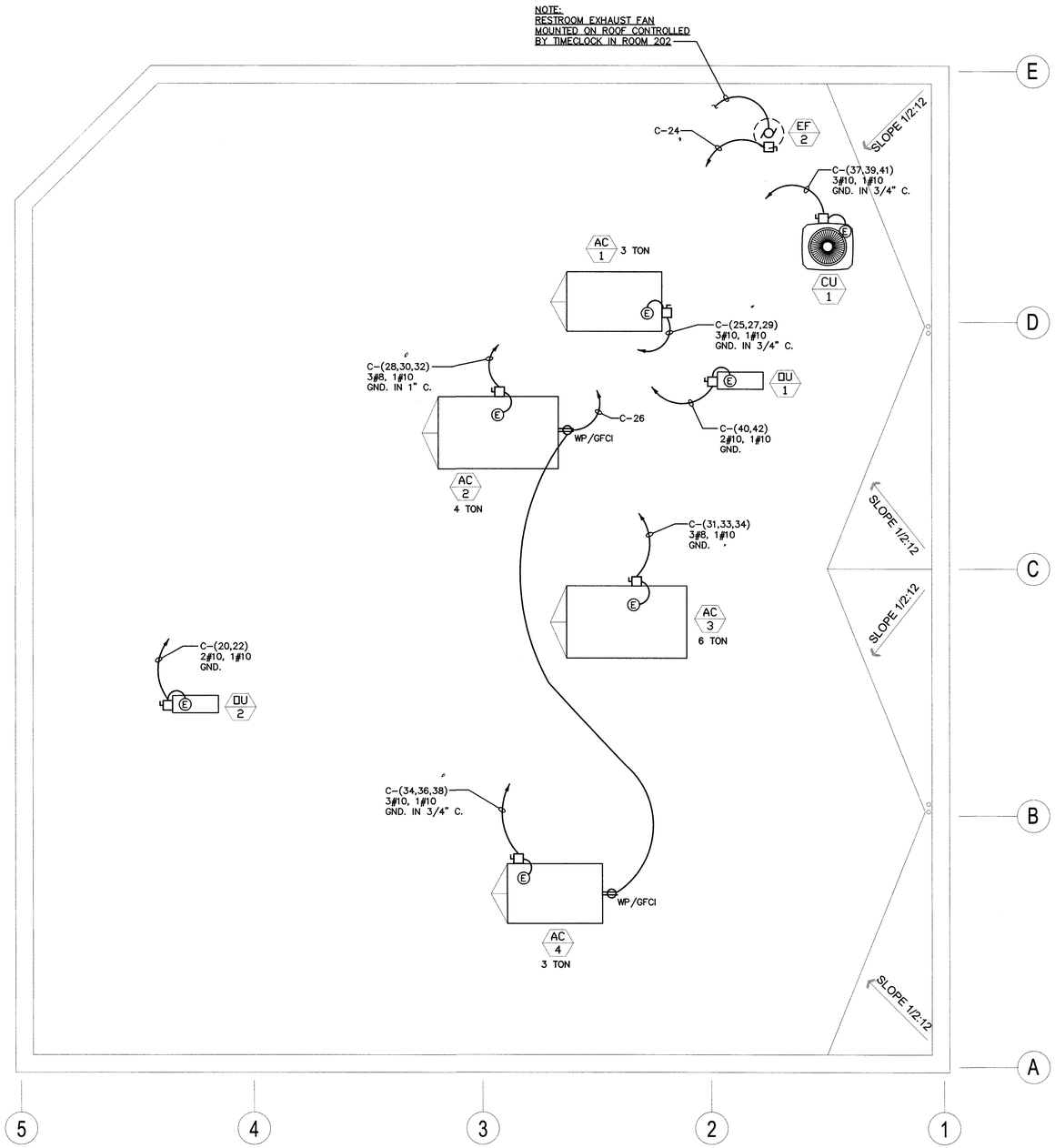
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GENERAL POWER NOTES:

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8. ELECTRICAL CONTRACTOR IS APPROVED TO USE SURFACE MOUNTED RECEPTACLES & CONDUIT IN BASEMENT.

Roof Mounted Mechanical Power Plan

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

Plan North

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ARCHITECTURE & PLANNING

DRAWING: Roof Mounted Mechanical Power Plan

PROJECT: Shariot Hall Education Center Addition
415 W. Gurley St.
Prescott, AZ, 86301

APN: 109-02-035

DRAWN BY	R.A.
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DATE	July 3rd, 2018
JOB NO.	710
SHEET	E1.7

Oct 24, 2018 - 1:31pm