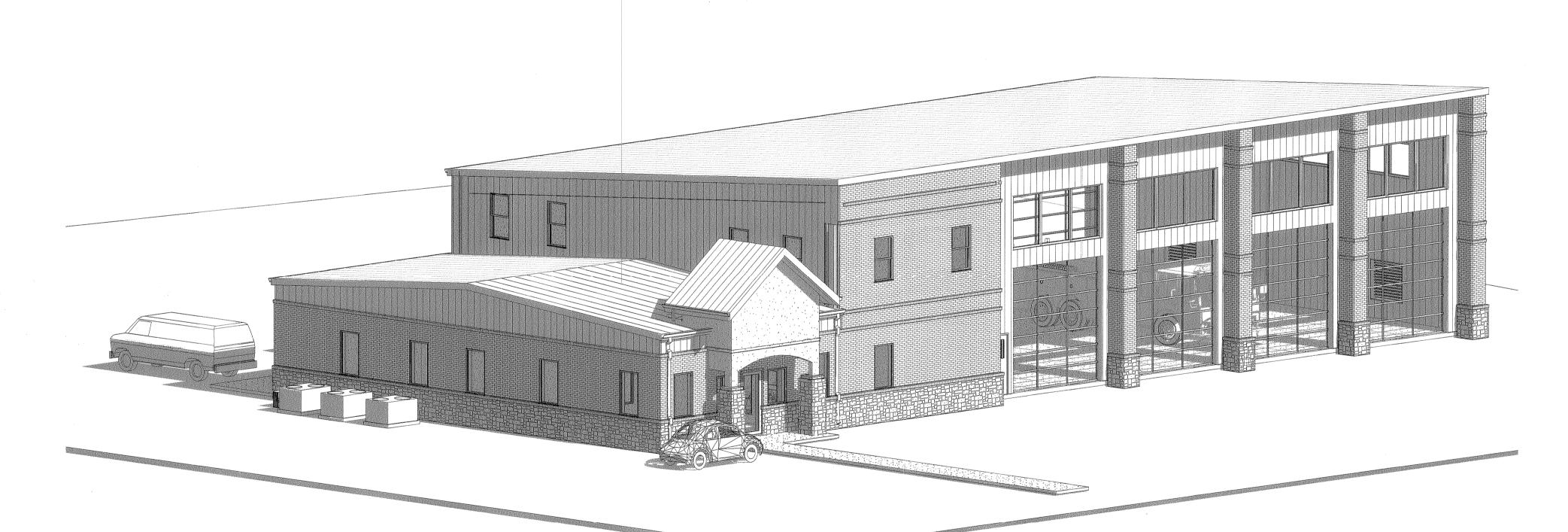
NOTE: THESE CONSTRUCTION DOCUMENTS ARE ISSUED TO SHOW DESIGN INTENT AND ESTABLISH A MATERIAL STANDARD FOR PRICING. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE AN INDUSTRY STANDARD OF CARE AND EXERCISE COMPETENT CONSTRUCTION INDUSTRY STANDARD BUILDING TECHNIQUES AND PRACTICES IN THE PRICING AND PRODUCTION OF THIS STRUCTURE. NECESSARY ITEMS NOT SPECIFIED DIRECTLY OR OTHERWISE LISTED AS "NOTE IN CONTRACT" OR "SUPPLIED BY OWNER/OTHERS" ARE TO BE INCLUDED IN THE CONTRACT SUM FOR A COMPLETE "TURN KEY" JOB. THESE ITEMS SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT UPON DISCOVERY.

OCCUPANCY:	MIXED UNS	SEPARATED; R-2;	B; STORAGE S-1
OCCUPANT LOAD:			82 OCCUPANTS
CONSTRUCTION:		TYPE II-B (NOI	N-COMBUSTIBLE)
ALLOWABLE HEIGHT:			55'-0"
ALLOWABLE BUILDING	AREA:	17,500 S.I	F. (UNADJUSTED)
GROSS FLOOR AREA -	GROUN	D FLOOR:	7,380 S.F.
GROSS FLOOR AREA -	UPPER	FLOOR:	1,430 S.F.
TOTAL GROSS FLOOR	AREA:		8,800 S.F.
ZONING:			SEARCY AR - C4
FIRE SPRINKLER:		FIRE SPRI	NKLER REQUIRED



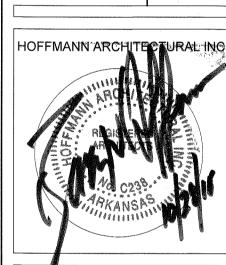
Searcy Fire Station #2

Searcy, Arkansas

	NDEX OF DRAWINGS
Sheet Number	Sheet Name
T1.0	TITLE SHEET
C1	SITE PLAN
C2	GRADING PLAN
C3	LANDSCAPE PLAN
C4	EROSION CONTROL PLAN
A1.1	FIRST FLOOR PLAN
A1.2	UPPER LEVEL PLAN
A1.3	LOWER LEVEL REFLECTED CEILING PLAN
A1.4	UPPER LEVEL REFLECTED CEILING PLAN
A1.5	ROOF PLAN
A2.1	SOUTH & EAST ELEVATIONS
A2.2	NORTH & WEST ELEVATIONS
A3.1	BUILDING SECTIONS
A3.2	BUILDING SECTIONS
A4.1	EXTERIOR 3D VIEWS
A7.1	WALL SECTIONS
A8.1	SCHEDULES
A8.2	MILLWORK
S0.0	STRUCTURAL NOTES
S1.0	FOUNDATION PLAN
S1.1	FOUNDATION DETAILS
S2.0	2ND FLOOR FRAMING PLAN
S2.1	STRUCTURAL DETAILS
S3.0	ROOF FRAMING PLAN
MP0.1	MECH & PLUMB LEGENDS
MP0.2	MECH & PLUMB NOTES
MP0.3	MECH & PLUMB NOTES
P0.1	PLUMBING SCHEDULES
P1.1	LOWER LEVEL PLUMBING PLAN
1.	
P1.2	UPPER LEVEL PLUMBING PLAN
P2.1	RISER DIAGRAMS
P3.1	PLUMBING DETAILS
P3.2	PLUMBING DETAILS
M0.1	MECHANICAL SCHEDULES
M1.1	LOWER LEVEL HVAC PLAN
M1.2	UPPER LEVEL HVAC PLAN
M2.1	MECHANICAL DETAILS
M2.2	MECHANICAL DETAILS
E1.1	ELECTRICAL LEGENDS
E1.2	ELECTRICAL NOTES
E2.1	LOWER LEVEL POWER PLAN
E2.2	UPPER LEVEL POWER PLAN
E3.1	LOWER LEVEL LIGHTING PLAN
E3.2	UPPER LEVEL LIGHTING PLAN
E4.1	ELECTRICAL RISER DIAGRAM
E5.1	ELECTRICAL RISER DIAGRAM
E5.2	ELECTRICAL PANEL SCHEDULES

A PROJECT FOR:

Golf Course Drive Searcy, Arkansas



THE UNITED STATES AND IS HEREWITH PROHIBITED

> DATE: 10/28/16

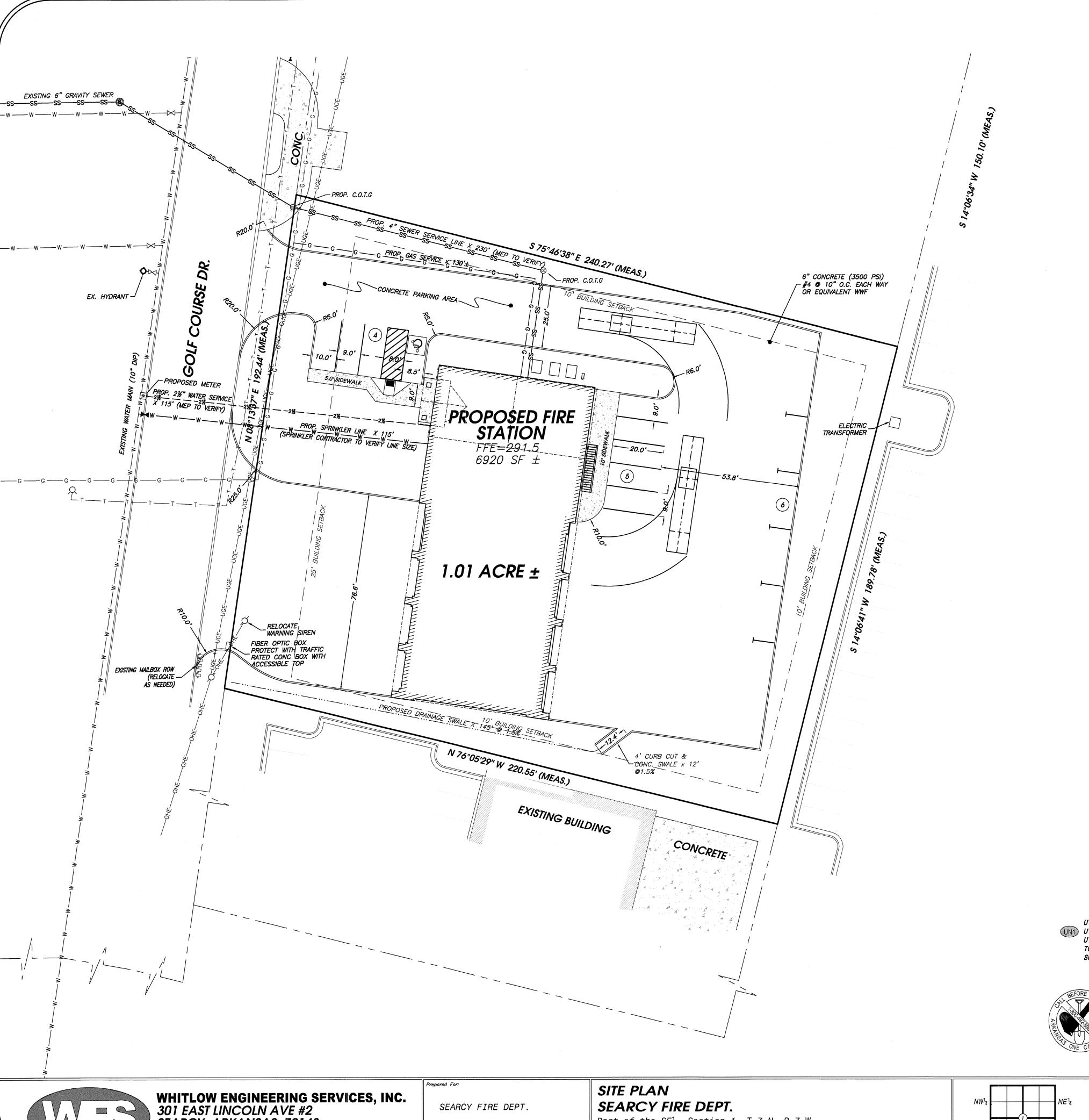
REVISIONS:

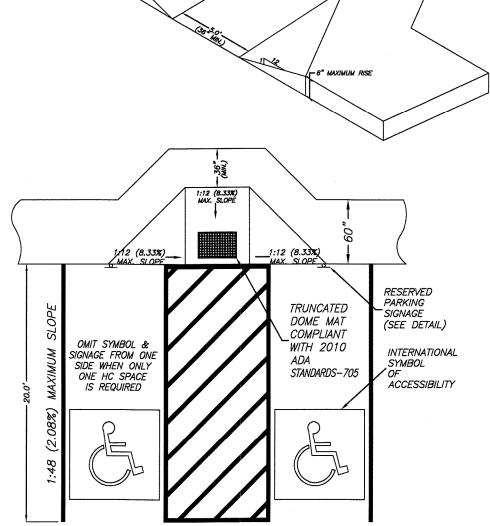
CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON SITE PRIOR TO ORDERING MATERIALS OR CONSTRUCTION.

DRAWN BY: **BWH**

TITLE SHEET

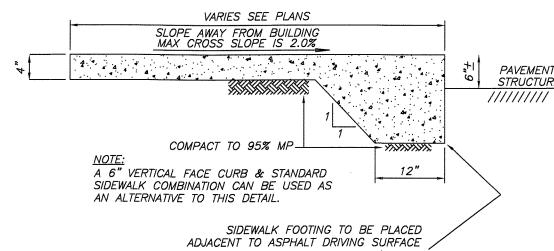
SHEET: T1.0





1:48 (2.08%) MAXIMUM CROSS SLOPE

DETAIL -HANDICAP RAMP SCALE - NTS



(REBAR AS PER GEOTECHNICAL REQUIREMENTS) DETAIL - TURN DOWN SIDEWALK SCALE - NTS

IN LIEU OF CONC. CURB/GUTTER

LEGEND											
Ø	EXISTING POWERPOLE	— T —— T — EXISTING TELEPHONE LINES									
8	EXISTING SEWER MANHOLE	-GG EXISTING GAS SERVICE									
Д	TELEPHONE PEDESTAL	-SSSS EXISTING SANITARY SEWER									
<u></u>	PROPOSED COTG	— W —— W —— EXISTING WATERLINE									
W	EXISTING WATER METER	OHE EXISTING OVERHEAD ELECTRIC									
1	EXISTING GUY WIRE	FO-FO-FO-FIBER OPTICS LINES									
—1" —		-RWRW STREET RIGHT-OF-WAY									
	PROPOSED SIDEWALK	PROPPOSED CONCRETE PAVEMENT									
., A	EXISTING CONCRETE AREA	— W — EXISTING WATER VALVE									
777	77	-SSSS PROPOSED 4" SEWER SERVICE									
	PROPOSED BUILDING	EXISTING FIRE HYDRANT									

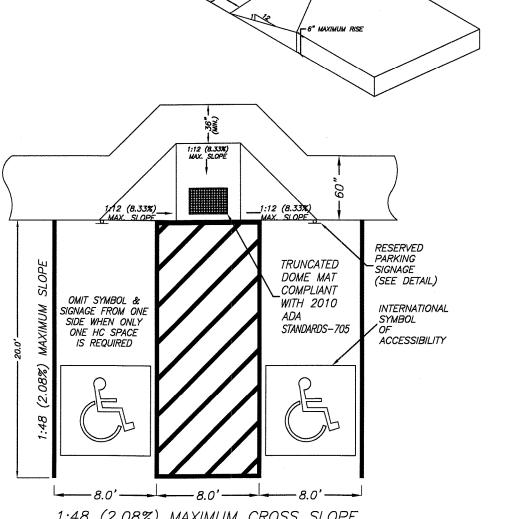
UTILITY NOTES:

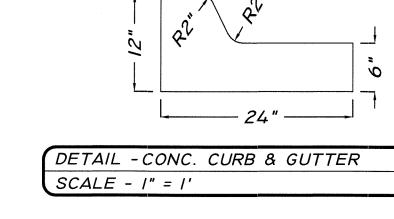
UTILITIES SHOWN ARE NOTED BY VISIBLE OBSERVATION ONLY. UNDERGROUND UN1) UTILITIES ARE TAKEN FROM UTILITY MAPS. EXACT LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE, NO EXCAVATION HAS TAKEN PLACE AS OF THIS DATE TO DETERMINE THE EXACT LOCATION OF UNDERGROUND UTILITIES SHOWN ON THIS

FOR UNDERGROUND UTILITY LOCATIONS CALL: THE ARKANSAS ONE-CALL SYSTEM GIVE 48 HOURS NOTICE BEFORE CONSTRUCTION BEGINS



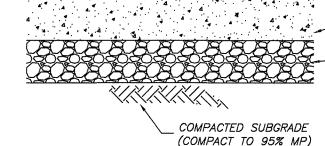
UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS. THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE AND LOCATIONS OF WHICH ARE UNKNOWN. THE CONTRACTOR MUST VERIFY THE EXACT LOCATIONS OF UTILITIES WITH THE UTILITY COMPANIES PRIOR TO CONSTRUCTION.





VICINITY MAP

SCALE: 1"=2000"



+= CLOVERDALE BLVD

APACHE DR &

CHOCTAW DR

___6" CONCRETE W/ #4 BARS @ 10" O.C. " BASE (SB-2) COMPACT TO 95% MP

CONCRETE SHALL BE 3500 PSI @ 28 DAYS, WITH A SLUMP OF 3-5 INCHES AND 3-5% AIR ENTRAINMENT. EXPANSION JOINTS SHALL BE SPACED AT 15 FEET MAX WITH CONTROL JOINTS EVERY 5 FEET. (PAVEMENT SECTIONS TO BE VERIFIED BY

GEOTECHNICAL CONSULTANT)

DETAIL -PAVEMENT STRUCTURE SCALE - NTS

FLOOD CERTIFICATION:

BASED UPON REVIEW OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), FLOOD INSURANCE RATE MAP (FIRM), COMMUNITY-PANEL NUMBER 05145C 0435 E, EFFECTIVE DATE MAY 2, 2012, THE PROPERTY DEPICTED ON THIS PLAT DOES NOT APPEAR TO BE LOCATED WITHIN A SPECIAL FLOOD HAZARD AREA.

GENERAL NOTES:

- 1.) SEE SURVEY, GRADING PLAN, & ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION. 2.) BOUNDARY BASED ON SURVEY FIELD WORK BY QUATTLEBAUM SURVEYING BY DIRECTION OF
- PS #1737 VIA WHITLOW ENGINEERING SERVICES, INC. 3.) THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING SERVICE CONNECTIONS WITH THE CITY, ENTERGY, CENTERPOINT GAS, OR OTHER GOVERNING AGENCY AS APPROPRIATE.

SEARCY WATER & SEWER (501) 268-2481, TIM CLEVELAND ENTERGY ELECTRIC (501) 279-3118, MILLARD COOPER CENTERPOINT GAS (501) 278-5550, CHRIS MATHEWS CIVIL ENGINEER (WES) (501) 279-9200, ADAM WHITLOW SURVEYOR (QUATTLEBAUM SURVEYING) (501) 268-2471, ALAN QUATTLEBAUM SEARCY CITY ENGINEER (501) 268—2483, MARK LANE SEARCY PERMIT OFFICE (501) 279-1085

- 4.) CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING COMPACTION TESTS TO THE ENGINEER, OWNER, & CITY WHERE APPLICABLE PRIOR TO PAVING
- 5.) SEE CONSTRUCTION DETAILS FOR ADDITIONAL INFORMATION. 6.) CONTRACTOR SHALL COORDINATE WATER & SEWER CONNECTIONS WITH OWNER & CITY.
- 7.) ALL UTILITIES TO BE LOCATED PRIOR TO CONSTRUCTION (ONE CALL, CITY, ETC.).
- 8.) SIZE AND LOCATION OF WATER AND SEWER SERVICE LINES TO BE VERIFIED BY MEP.



ARĶAŊŚAS * * * REGISTERED **PROFESSIONAL ENGINEER** * * * No. 11431

SEARCY FIRE DEPT. INSPECTOR

CERTIFICATE OF ENGINEERING ACCURACY: I, ADAM W. WHITLOW, HEREBY CERTIFY THAT THIS PLAN CORRECTLY REPRESENTS A PLAN MADE BY ME, OR UNDER MY SUPERVISION. ADAM W. WHITLOW, REGISTERED

(501) 279-1075

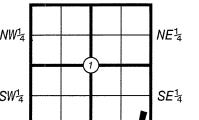
PROFESSIONAL ENGINEER NO. 11431



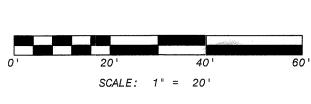
WHITLOW ENGINEERING SERVICES, INC. 301 EAST LINCOLN AVE #2 SEARCY, ARKANSAS 72143 (501) 279-9200 • (501) 279-9205 FAX

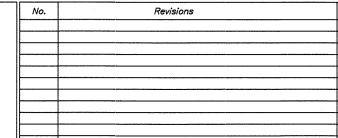
SEARCY, ARKANSAS 72143

Part of the SE¹₄, Section 1, T-7-N, R-7-W City of Searcy, White County, Arkansas

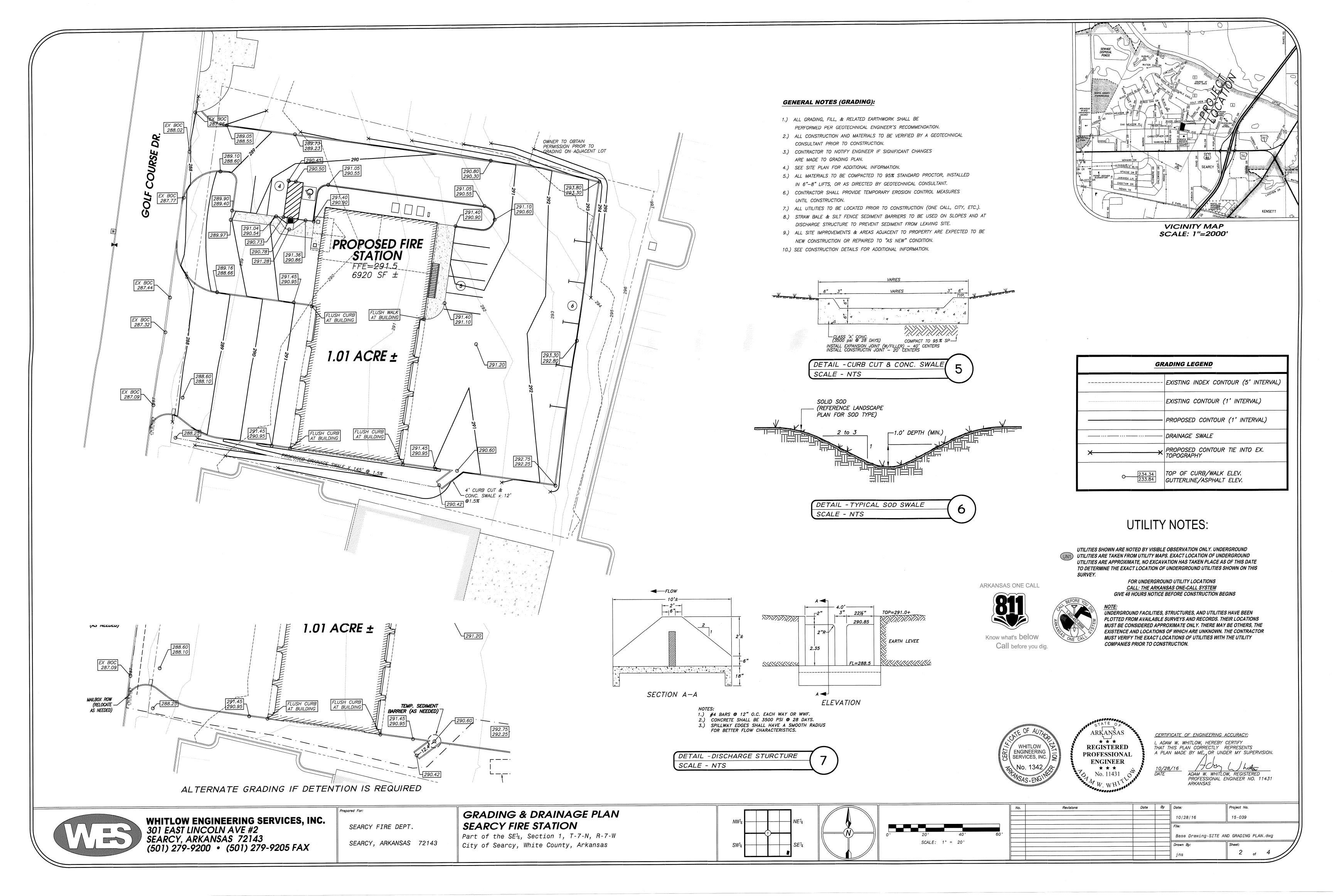


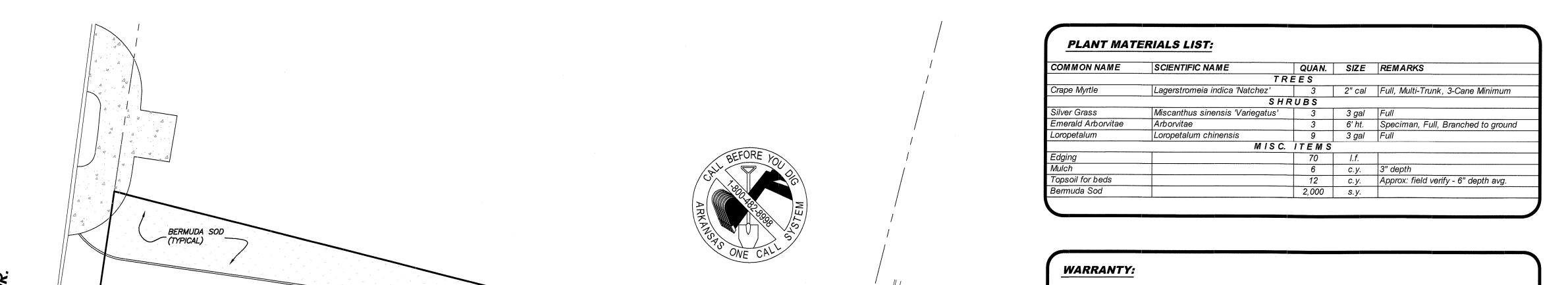




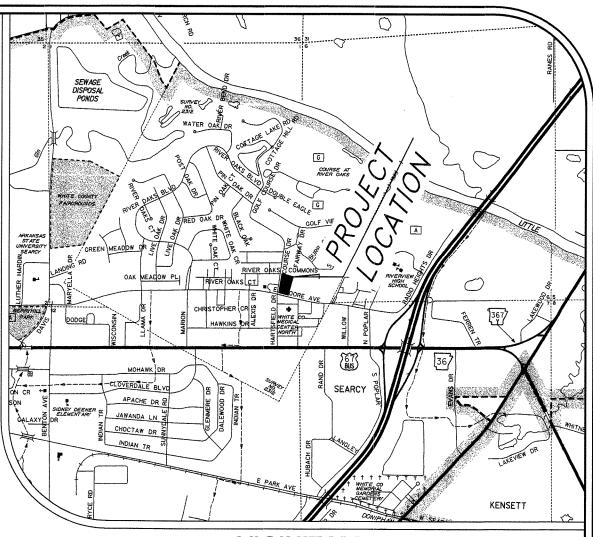


Date By Date: Project No. 10/28/16 15-039 Base Drawing-SITE AND GRADING PLAN.dwg

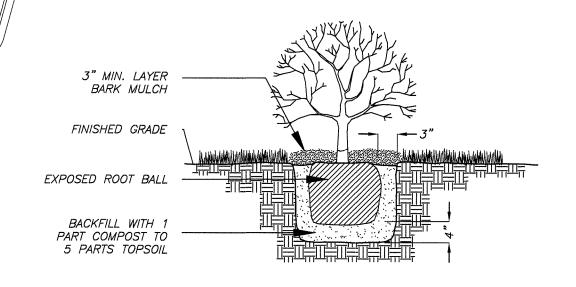




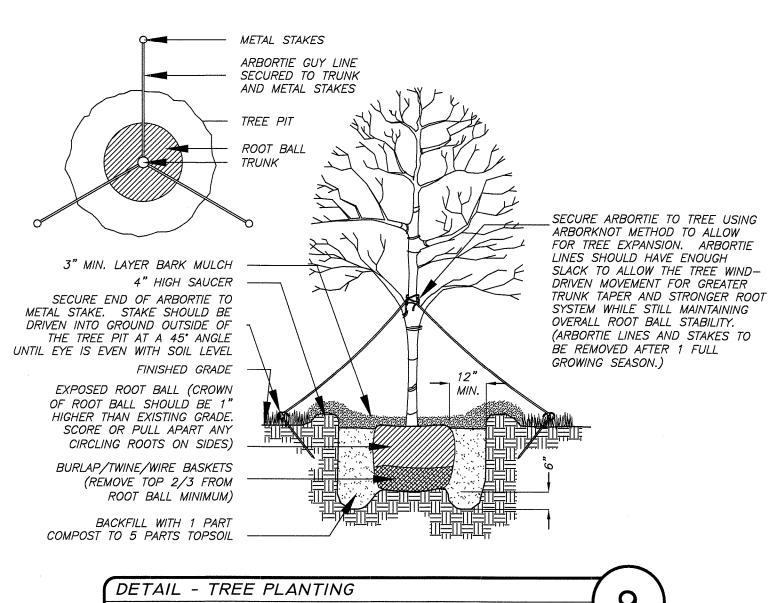
ALL WORK IS WARRANTED FOR (1) FULL YEAR AFTER INITIAL ACCEPTANCE. THE LANDSCAPE CONTRACTOR IS OBLIGATED TO CORRECT ANY WORK FOUND TO BE DEFECTIVE OR NONCONFORMING. UPON NOTICE, REMOVE DEAD MATERIALS AND ALL MATERIALS NOT IN VIGOROUS, THRIVING CONDITION, AS SOON AS WEATHER PERMITS AND ON NOTIFICATION BY THE LANDSCAPE ARCHITECT OR OWNER. PLANTS, INCLUDING TREES. WHICH HAVE PARTIALLY DIED SO THAT SHAPE, SIZE OR SYMMETRY HAS BEEN DAMAGED, SHALL BE CONSIDERED FOR REPLACEMENT. IN SUCH CASES, THE OPINION OF THE LANDSCAPE ARCHITECT WILL BE FINAL. ANNUAL PLANTS WILL BE GUARANTEED FOR A PERIOD COINCIDING WITH THEIR NORMAL SEASON OF GROWTH. PLANTS USED FOR REPLACEMENT SHALL BE OF THE SAME KIND AND SIZE AS THOSE ORIGINALLY PLANTED, AND SHALL BE PLANTED AS ORIGINALLY SPECIFIED. ALL WORK, INCLUDING MATERIALS, LABOR, AND EQUIPMENT USED IN REPLACEMENT, WILL BE AT NO COST TO THE OWNER. REPLACEMENT PLANTS SHALL CARRY A ONE (1) YEAR WARRANTY. ANY DAMAGE, INCLUDING RUTS IN LAWN OR BED AREAS, INCURRED IN MAKING REPLACEMENTS SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER OR LANDSCAPE ARCHITECT BY THE LANDSCAPE CONTRACTOR.



VICINITY MAP SCALE: 1"=2000'



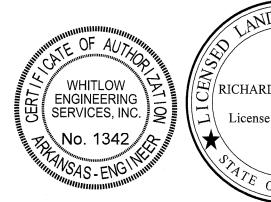
DETAIL - SHRUB PLANTING SCALE - NTS



SCALE - NTS

GENERAL LANDSCAPE NOTES:

- 1. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL PLANT QUANTITIES.
- 2. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR CALCULATION OF ALL GRASS AND MULCH AREAS. VERIFY LOCATIONS WITH
- 3. ADJUSTMENTS IN ACTUAL LOCATION OF PLANT MATERIAL MAY BE NECESSARY DUE TO EXISTING FIELD ITEMS (AIR CONDITIONERS, TRANSFORMERS, ETC.).
- 4. FULL BED PREPARATION TYPICAL. REFERENCE PLANTING DETAILS.
- 5. LANDSCAPE CONTRACTOR TO PROVIDE A UNIT COST (INCLUDING INSTALLATION) FOR ALL ITEMS.
- 6. WHEN THE SAME SPECIES OF TREES ARE PAIRED OR GROUPED IN 3 OR MORE, THEY SHOULD BE MATCHED IN SIZE, SHAPE, GROWTH CHARACTERISTICS, ETC.
- 7. PLANT MATERIAL AVAILABILITY SHALL BE CONFIRMED BY LANDSCAPE CONTRACTOR PRIOR TO BIDDING. SHOULD SPECIFIED MATERIAL NOT BE AVAILABLE, THE OWNER AND LANDSCAPE ARCHITECT SHALL BE NOTIFIED PRIOR TO BID DATE.
- 8. VERIFY LOCATION OF ALL UTILITY LINES PRIOR TO INSTALLATION. FIELD ADJUST FOR GENERAL INTENT IF CONFLICT EXISTS.
- 9. THE LANDSCAPE CONTRACTOR SHALL NOT ELIMINATE, SUBSTITUTE, AND/OR DOWNSIZE PLANT MATERIAL WITHOUT PRIOR APPROVAL OF THE OWNER AND LANDSCAPE ARCHITECT. MINIMUM STANDARDS AND REQUIREMENTS OF THE CITY OF SEARCY MUST BE MAINTAINED.
- 10. ALL PLANTING BEDS AND TREES, UNLESS OTHERWISE NOTED ON THE PLAN, TO RECEIVE 3 INCHES OF HARDWOOD MULCH
- 11. ALL PLANT MATERIALS SHALL BE MAINTAINED BY OWNER IN A HEALTHY AND GROWING CONDITION, AND BE REPLACED WITH PLANT MATERIAL OF SIMILAR VARIETY AND SIZE IF DAMAGED, DESTROYED, OR REMOVED (SEE WARRANTY INFORMATION).
- 12. LANDSCAPE AREAS SHALL BE KEPT FREE OF TRASH, LITTER, WEEDS, AND OTHER MATERIAL OR PLANTS NOT A PART OF THE
- 13. ALL LANDSCAPE AREAS SHALL BE CONSTRUCTED, INSTALLED, AND MAINTAINED SO AS NOT TO CONSTRUCT VIEW OF MOTORISTS BETWEEN THE STREET AND THE ACCESS DRIVES. VISIBILITY TRIANGLES SHALL ALWAYS REMAIN UNOBSTRUCTED.
- 14. ALL PERMEABLE SURFACES NOT OCCUPIED BY TREES, SHRUBS, PLANTING BEDS, EXISTING GRASS, SIGNS, AND OTHER PERMITTED ITEMS OR FIXTURES SHALL BE LAWN AREAS. THESE LAWN AREAS, UNLESS SPECIFIED OTHERWISE, SHALL BE
- 15. PLANT MATERIAL SHALL BE HEALTHY AND VIGOROUS, FULL BRANCHED ON ALL SIDES, WELL SHAPED SYMMETRICAL AND SHALL BE FREE OF DEFECTS, DECAY, SUN-SCALD INJURIES, ABRASIONS OF THE BARK AND LIMBS, DISEASE, INSECT EGGS AND
- 16. THE OWNER OR LANDSCAPE ARCHITECT HAS THE RIGHT TO INSPECT ALL MATERIALS PRIOR TO AND AFTER DELIVERY TO THE SITE AS WELL AS AFTER INSTALLATION AND SHALL RESERVE THE RIGHT TO ACCEPT OR REJECT SAID MATERIALS AT ANY TIME.
- 17. CONTRACTOR TO INSTALL AN UNDERGROUND POP-UP TYPE IRRIGATION SYSTEM. IRRIGATION SYSTEM SHALL WATER ALL LANDSCAPE PLANTING AND LAWN AREAS. ADJUSTMENTS TO THE SYSTEM SHALL LIMIT OVERSPRAY ONTO ADJACENT ROADWAYS AND CONSERVE WATER TO THE GREATEST EXTENT POSSIBLE. IRRIGATION CONTRACTOR TO COORDINATE WITH CIVIL ENGINEER AND SITE CONTRACTOR FOR LOCATION OF SLEEVING FOR IRRIGATION SYSTEM.
- 18. TOPSOIL SHALL BE FERTILE NATURAL SURFACE SOIL, UNIFORM IN COMPOSITION, SIMILAR TO SITE TOPSOIL IF APPROVED, FREE OF STONES LUMPS WEEDS, AND ROOTS. MINIMUM 20 PERCENT ORGANIC MATTER, 50 TO 50 PERCENT SAND, 15-20
- 19. THERE SHALL BE A 3 INCH MINIMUM LAYER OF GOOD TOPSOIL IN ALL GRASS AREAS. GRADE AREAS AROUND SIDEWALKS AND CURBS 1 INCH BELOW TOP OF CONCRETE TO ALLOW FOR SOD THICKNESS.
- 20. TOPSOIL IN PLANTING BEDS TO BE MOUNDED AND GRADED IN A WAY TO ALLOW POSITIVE DRAINAGE AWAY FROM BUILDING AND TO DETER ANY PONDING.
- 21. REFERENCE CIVIL ENGINEER PLANS FOR GRADING AND DRAINAGE.



| RICHARD S. STAFFORD

RICHARD S. STAFFORD, HEREBY CERTIFY THAT THIS PLAN CORRECTLY REPRESENTS A PLAN MADE BY ME, OR UNDER MY SUPERVISION.

RICHARD S. STAFFORD ASLA LICENSED LANDSCAPE ARCHITECT ARKANSAS LICENSE NO. 5106



3-CRAPE MYRTLE ----

SEARCY FIRE DEPT.

SEARCY, ARKANSAS 72143

--- 3-SILVER GRASS

----- 72-LF EDGING

PROPOSED FIRE

STATION

FFE=291.5

6920 SF ±

- 3-LOROPETALUM

-30-LF EDGING

- 3-EMERALD ARBORVITAE

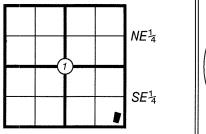
1.01 ACRE ±

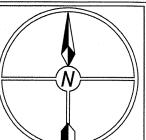
--- 11 -- LOROPETALUM

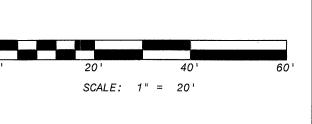
LANDSCAPE PLAN SEARCY FIRE DEPT.

BERMUDA SOD

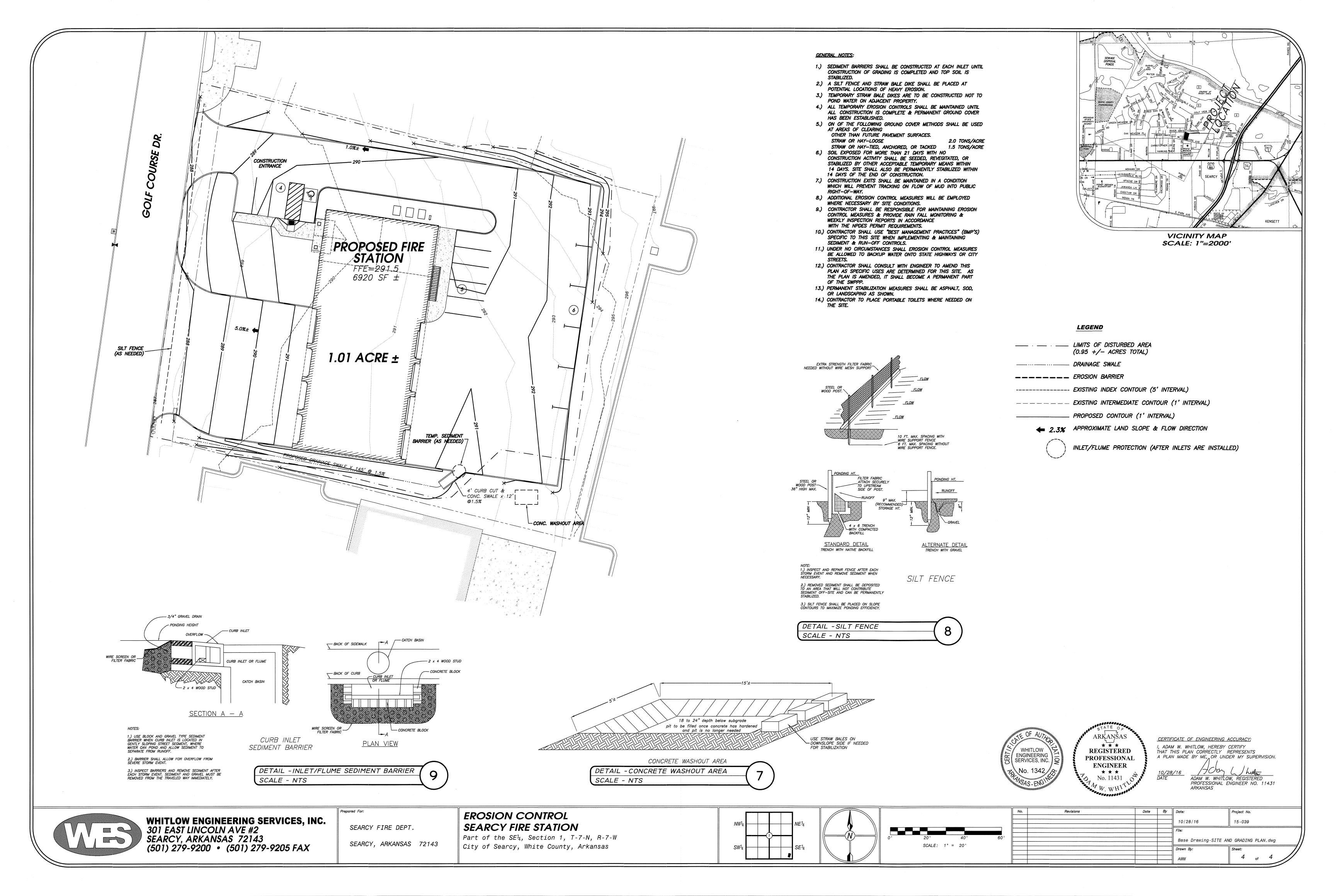
Part of the SE_4 , Section 1, T-7-N, R-7-W City of Searcy, White County, Arkansas

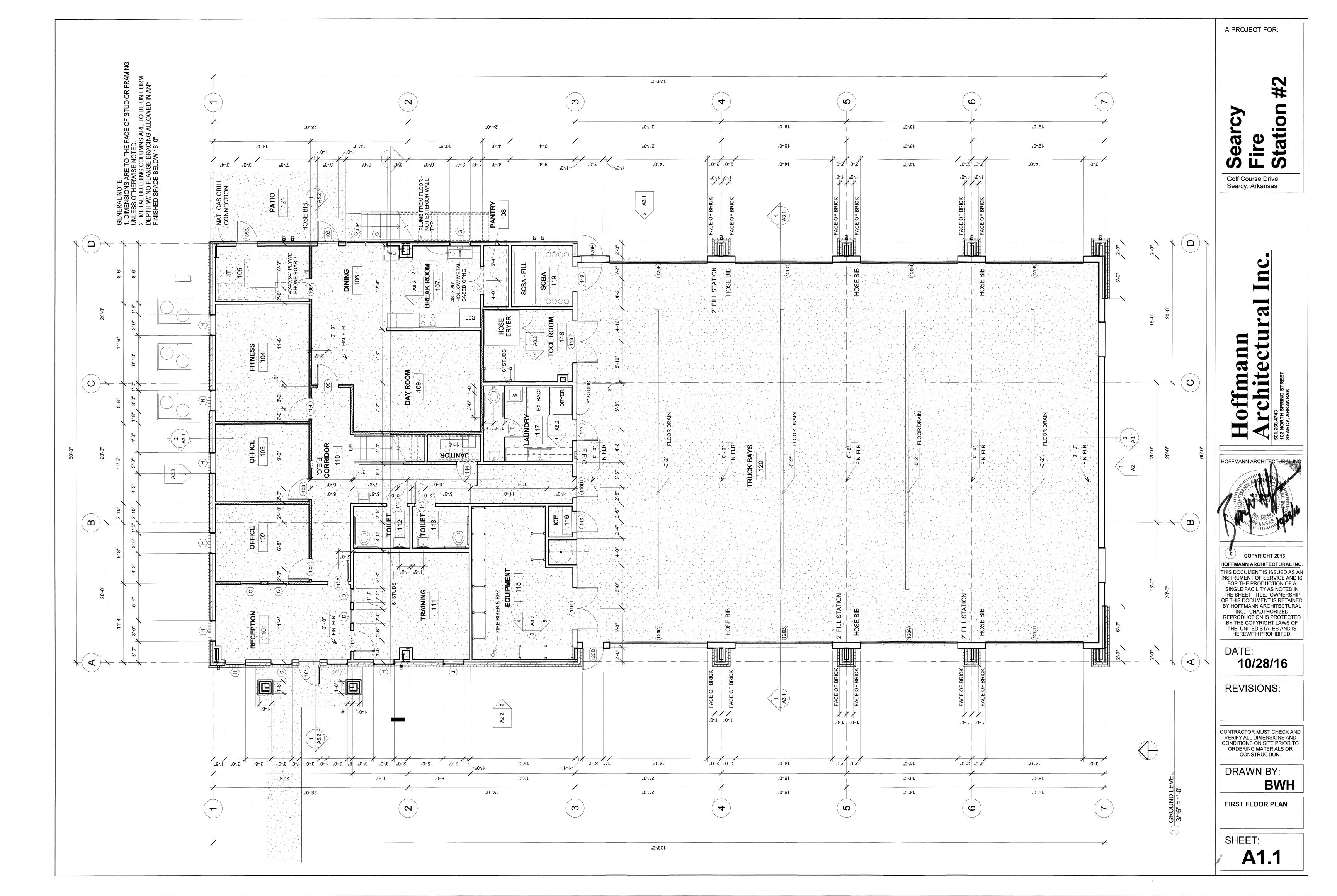


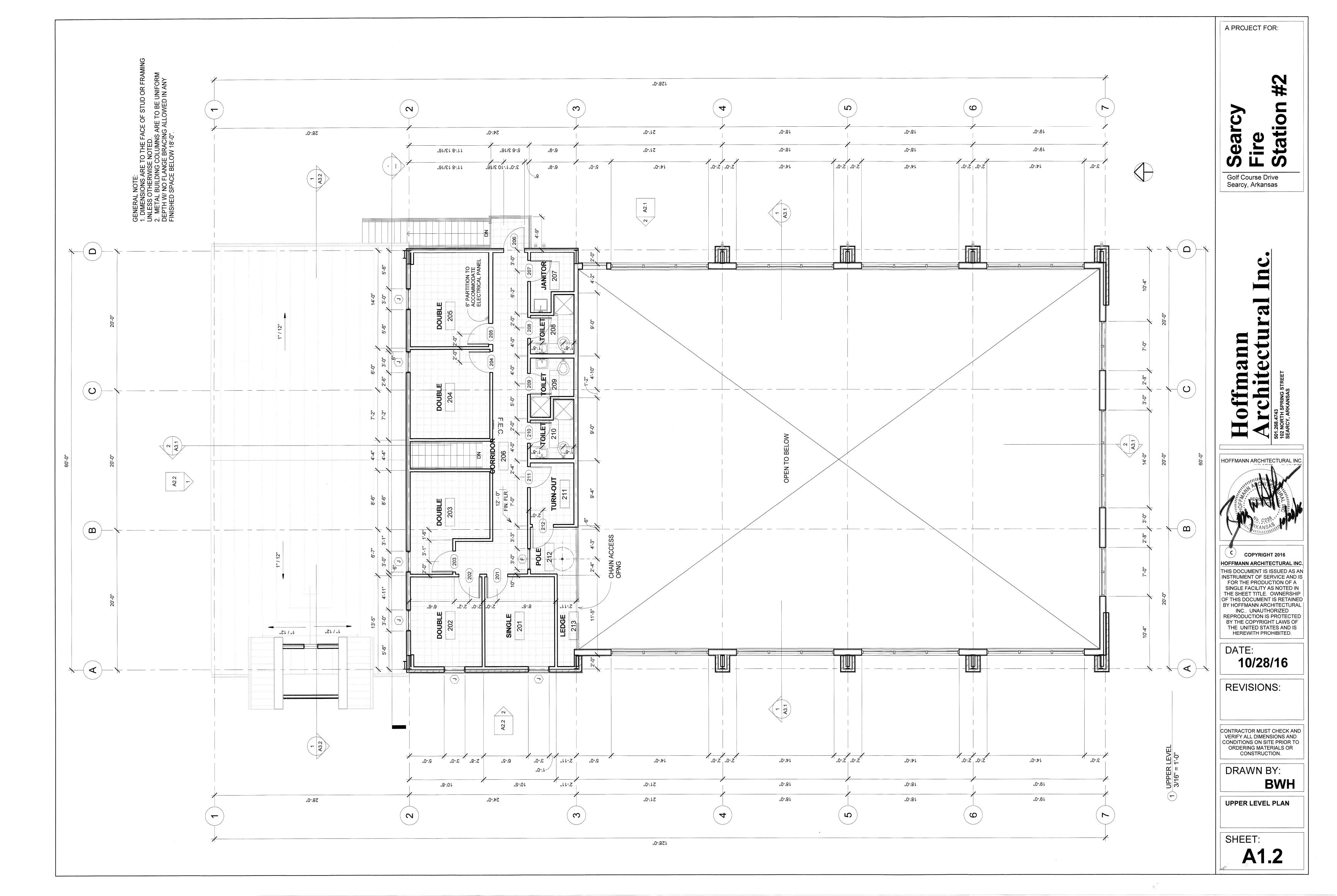


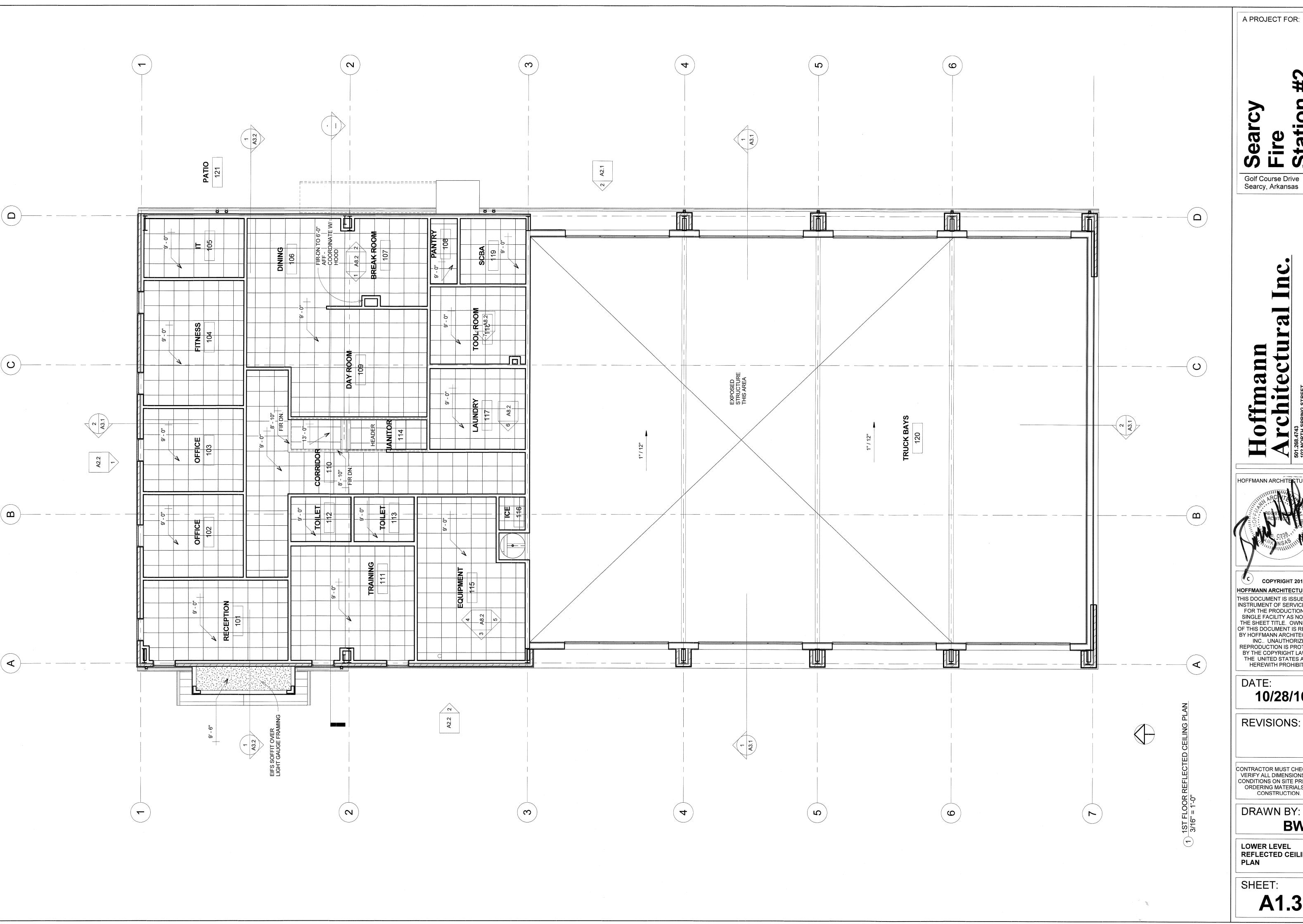


o.	Revisions	Date	Ву	Date:	Project No.			
				10/28/16	15-039			
				File:	d learning of			
				Base Drawing-SITE A	ND GRADIN	G PLAN	l.dwg	
				Drawn By:	Sheet:			
				RSS	3	of	4	/
i		1			11			









A PROJECT FOR:

COPYRIGHT 2016

HOFFMANN ARCHITECTURAL INC. THIS DOCUMENT IS ISSUED AS AN INSTRUMENT OF SERVICE AND IS FOR THE PRODUCTION OF A SINGLE FACILITY AS NOTED IN THE SHEET TITLE. OWNERSHIP OF THIS DOCUMENT IS RETAINED BY HOFFMANN ARCHITECTURAL INC.. UNAUTHORIZED REPRODUCTION IS PROTECTED BY THE COPYRIGHT LAWS OF THE UNITED STATES AND IS HEREWITH PROHIBITED.

10/28/16

REVISIONS:

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON SITE PRIOR TO ORDERING MATERIALS OR CONSTRUCTION.

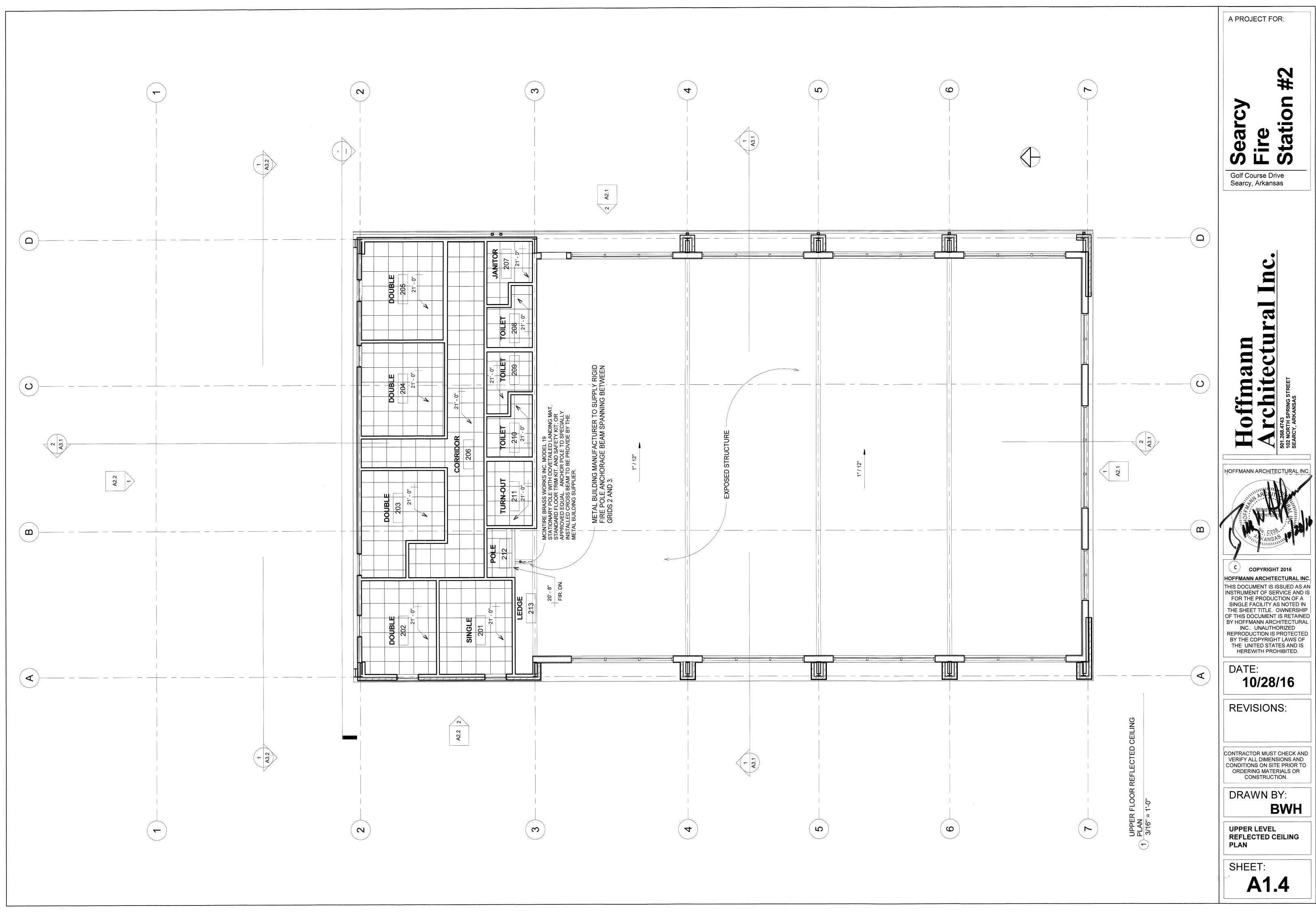
DRAWN BY:

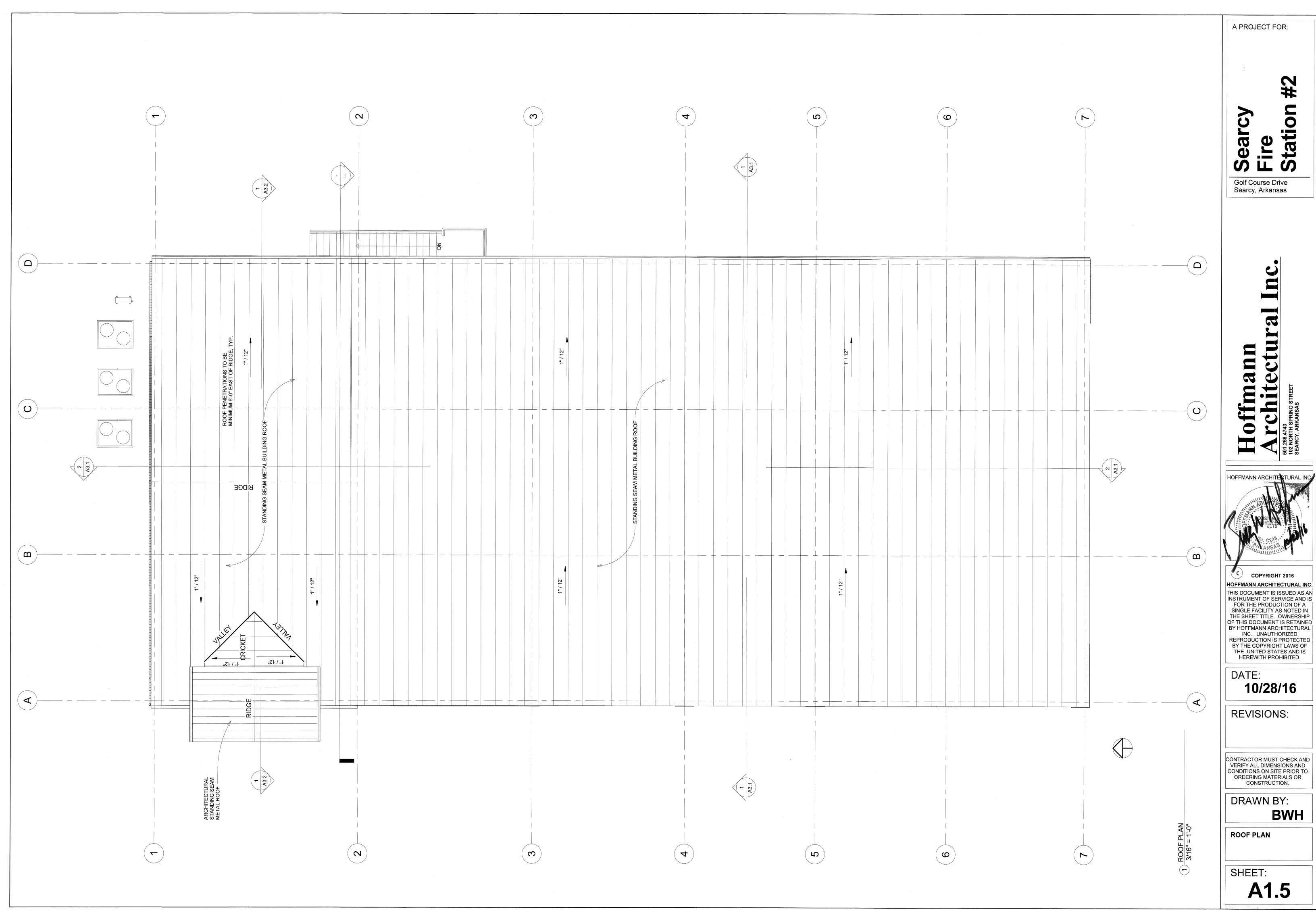
BWH

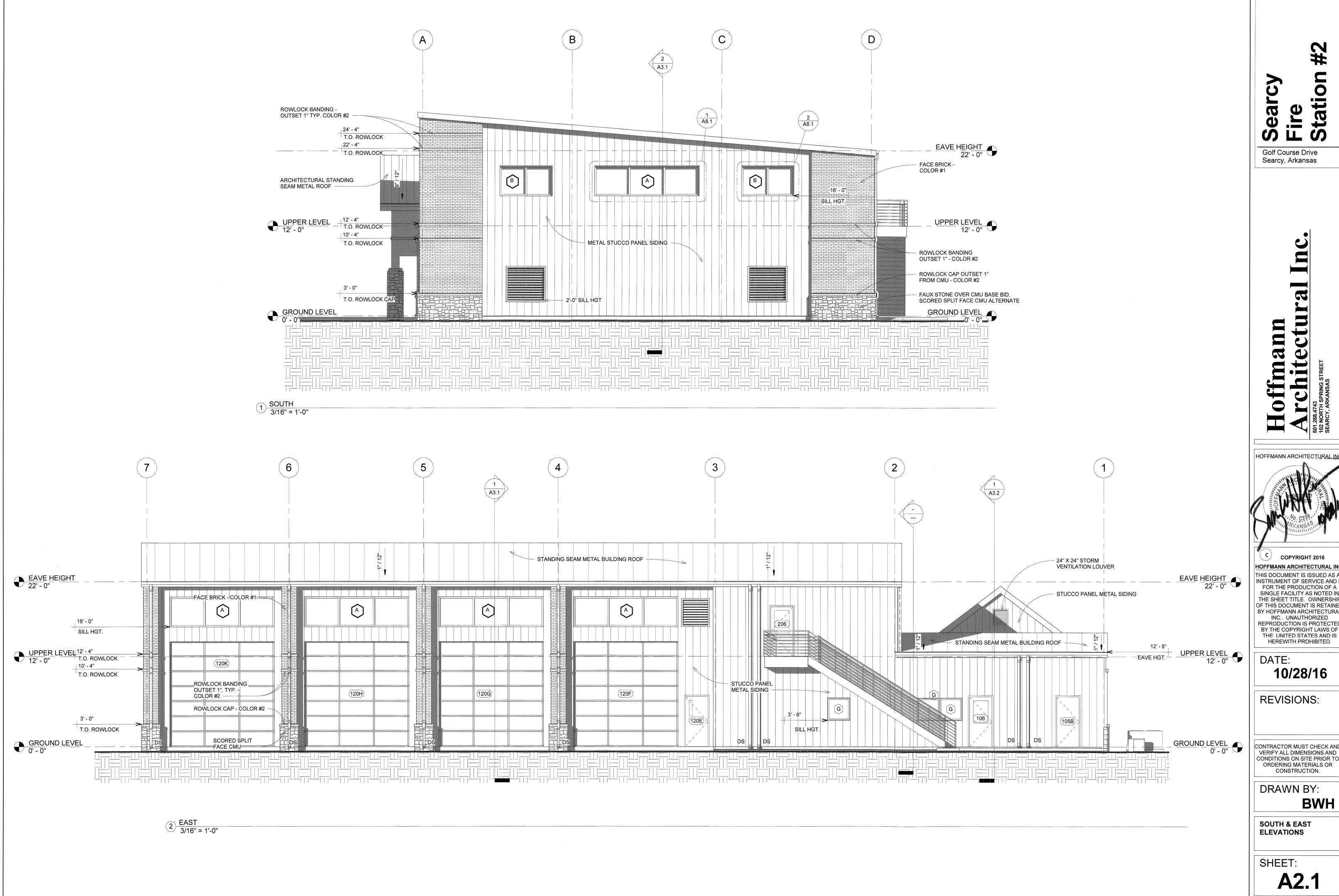
LOWER LEVEL REFLECTED CEILING

SHEET:

A1.3







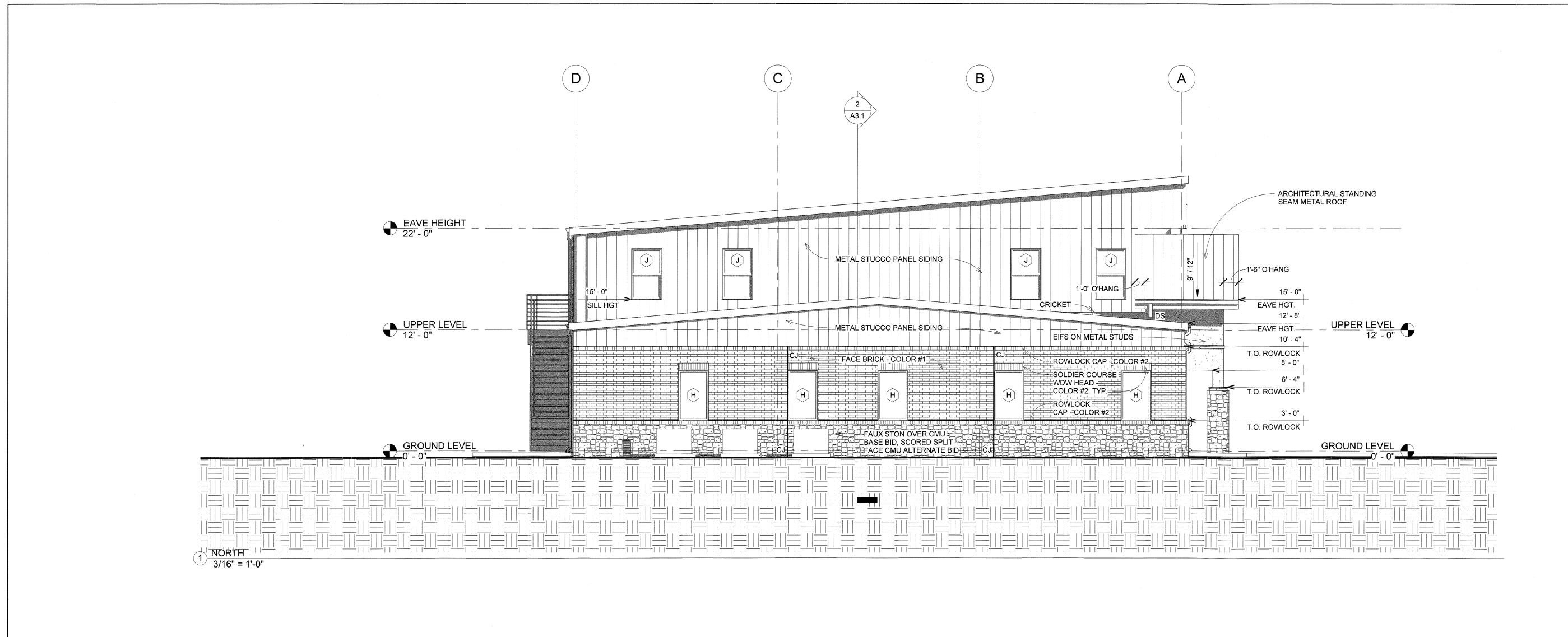
A PROJECT FOR:

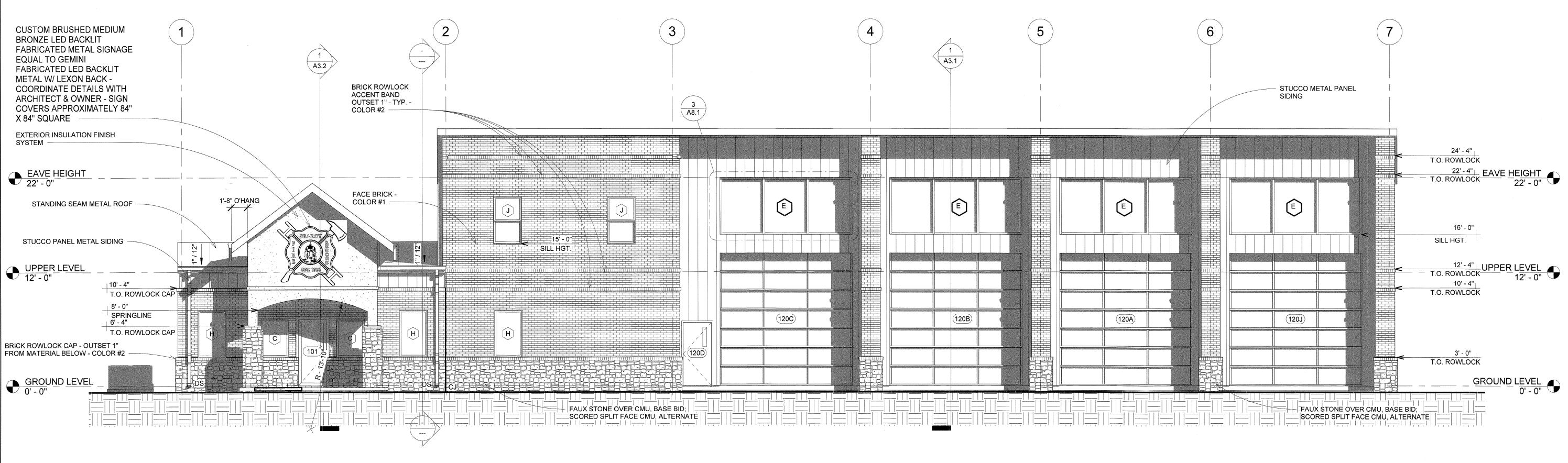
#2 0

COPYRIGHT 2016 HOFFMANN ARCHITECTURAL INC THIS DOCUMENT IS ISSUED AS AN INSTRUMENT OF SERVICE AND IS FOR THE PRODUCTION OF A SINGLE FACILITY AS NOTED IN THE SHEET TITLE. OWNERSHIP OF THIS DOCUMENT IS RETAINED BY HOFFMANN ARCHITECTURAL INC.. UNAUTHORIZED REPRODUCTION IS PROTECTED BY THE COPYRIGHT LAWS OF THE UNITED STATES AND IS HEREWITH PROHIBITED.

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON SITE PRIOR TO ORDERING MATERIALS OR CONSTRUCTION.

DRAWN BY:





2 WEST 3/16" = 1'-0"

A PROJECT FOR:

#2 tation Searcy

Golf Course Drive Searcy, Arkansas

ann

COPYRIGHT 2016

HOFFMANN ARCHITECTURAL INC. THIS DOCUMENT IS ISSUED AS AN INSTRUMENT OF SERVICE AND IS FOR THE PRODUCTION OF A SINGLE FACILITY AS NOTED IN THE SHEET TITLE. OWNERSHIP
OF THIS DOCUMENT IS RETAINED
BY HOFFMANN ARCHITECTURAL INC.. UNAUTHORIZED
REPRODUCTION IS PROTECTED
BY THE COPYRIGHT LAWS OF
THE UNITED STATES AND IS
HEREWITH PROHIBITED.

DATE: 10/28/16

REVISIONS:

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON SITE PRIOR TO ORDERING MATERIALS OR CONSTRUCTION.

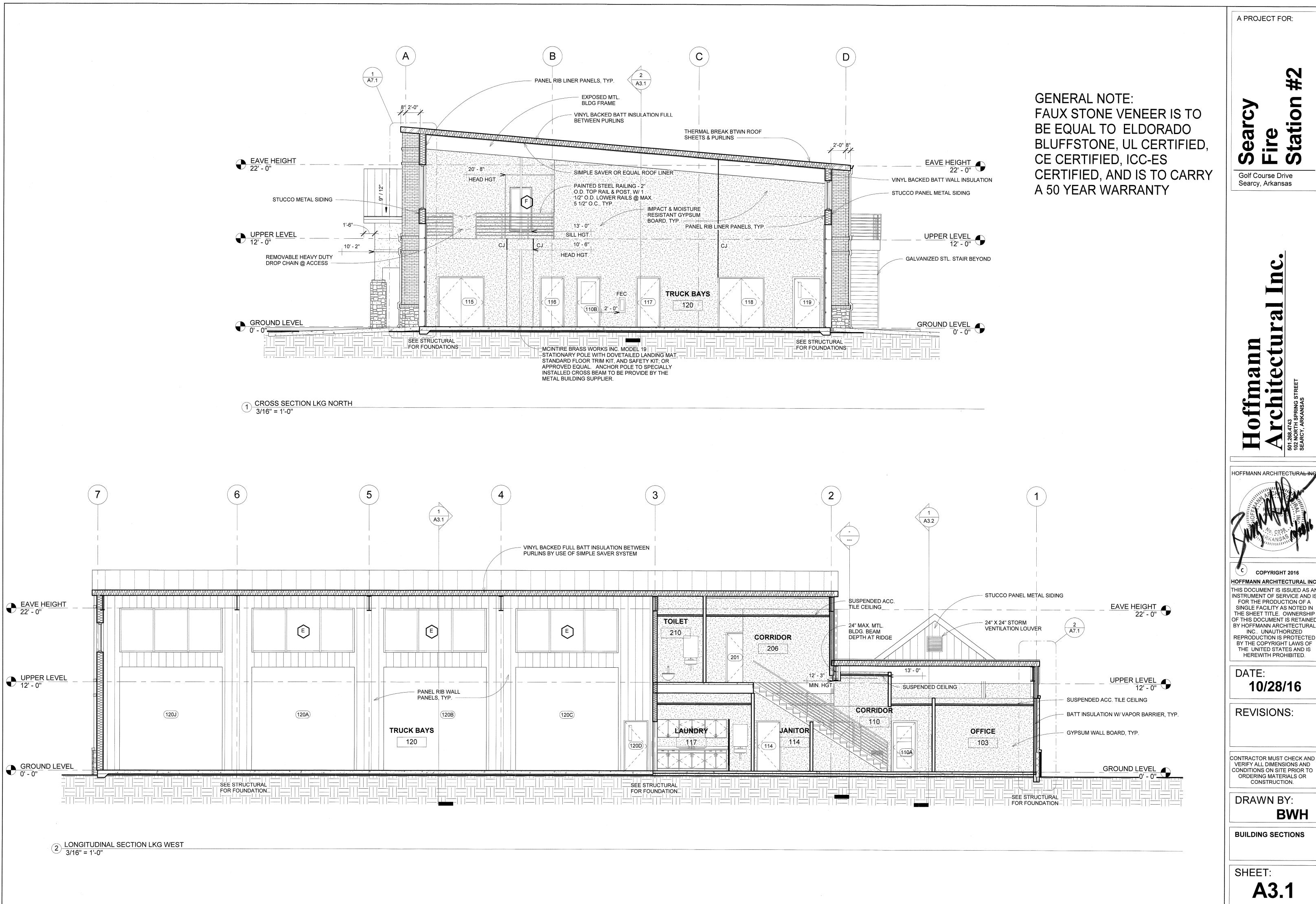
DRAWN BY:

BWH

NORTH & WEST ELEVATIONS

SHEET:

A2.2



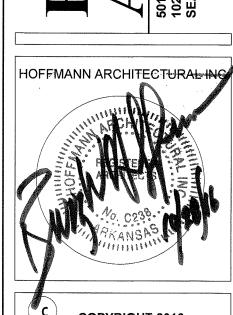
A PROJECT FOR:

#2 tation Searcy Fire

Golf Course Drive

Searcy, Arkansas

offmann



COPYRIGHT 2016

HOFFMANN ARCHITECTURAL INC. THIS DOCUMENT IS ISSUED AS AN INSTRUMENT OF SERVICE AND IS FOR THE PRODUCTION OF A SINGLE FACILITY AS NOTED IN THE SHEET TITLE. OWNERSHIP OF THIS DOCUMENT IS RETAINED BY HOFFMANN ARCHITECTURAL INC.. UNAUTHORIZED

10/28/16

REVISIONS:

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON SITE PRIOR TO ORDERING MATERIALS OR CONSTRUCTION.

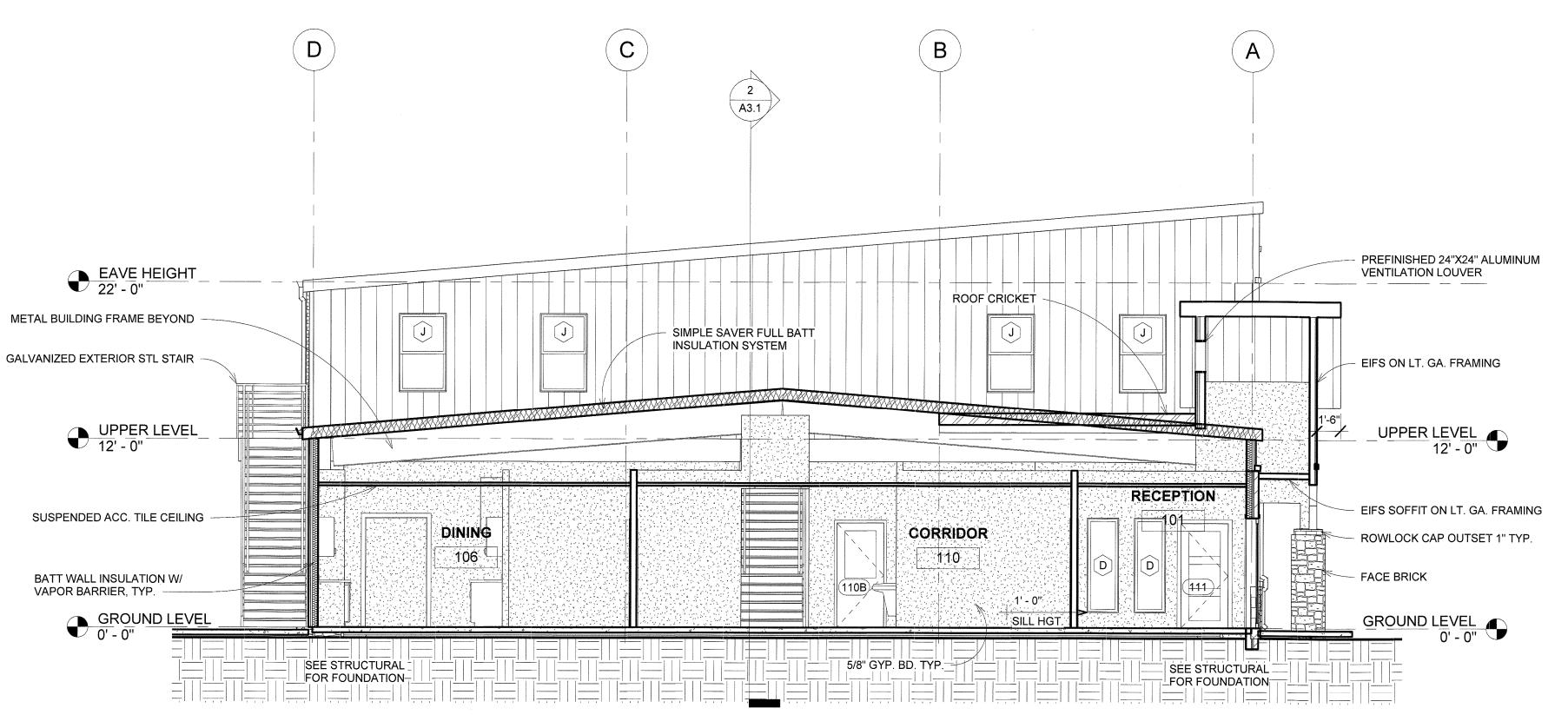
DRAWN BY:

BWH

BUILDING SECTIONS

SHEET:

A3.1



1 CROSS SECTION LKG SOUTH 3/16" = 1'-0"

GENERAL NOTE:
FAUX STONE VENEER IS TO
BE EQUAL TO ELDORADO
BLUFFSTONE, UL CERTIFIED,
CE CERTIFIED, ICC-ES
CERTIFIED, AND IS TO CARRY
A 50 YEAR WARRANTY

A PROJECT FOR:

Searcy Fire Station #2

Golf Course Drive Searcy, Arkansas

Hoffmann Architectural Inc.

HOFFMANN ARCHITECTURAL INC.

REGISTERAT
ROHL

C238

C COPYRIGHT 2016

HOFFMANN ARCHITECTURAL INC.

THIS DOCUMENT IS ISSUED AS AN INSTRUMENT OF SERVICE AND IS FOR THE PRODUCTION OF A SINGLE FACILITY AS NOTED IN THE SHEET TITLE. OWNERSHIP OF THIS DOCUMENT IS RETAINED BY HOFFMANN ARCHITECTURAL INC.. UNAUTHORIZED REPRODUCTION IS PROTECTED BY THE COPYRIGHT LAWS OF THE UNITED STATES AND IS HEREWITH PROHIBITED.

DATE:

10/28/16

REVISIONS:

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON SITE PRIOR TO ORDERING MATERIALS OR CONSTRUCTION.

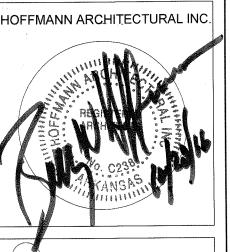
DRAWN BY:

BWH

BUILDING SECTIONS

SHEET:

A3.2



COPYRIGHT 2016 HOFFMANN ARCHITECTURAL INC. THIS DOCUMENT IS ISSUED AS AN INSTRUMENT OF SERVICE AND IS FOR THE PRODUCTION OF A SINGLE FACILITY AS NOTED IN THE SHEET TITLE. OWNERSHIP OF THIS DOCUMENT IS RETAINED BY HOFFMANN ARCHITECTURAL INC.. UNAUTHORIZED REPRODUCTION IS PROTECTED BY THE COPYRIGHT LAWS OF THE UNITED STATES AND IS HEREWITH PROHIBITED.

DATE:

10/28/16

REVISIONS:

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON SITE PRIOR TO ORDERING MATERIALS OR CONSTRUCTION.

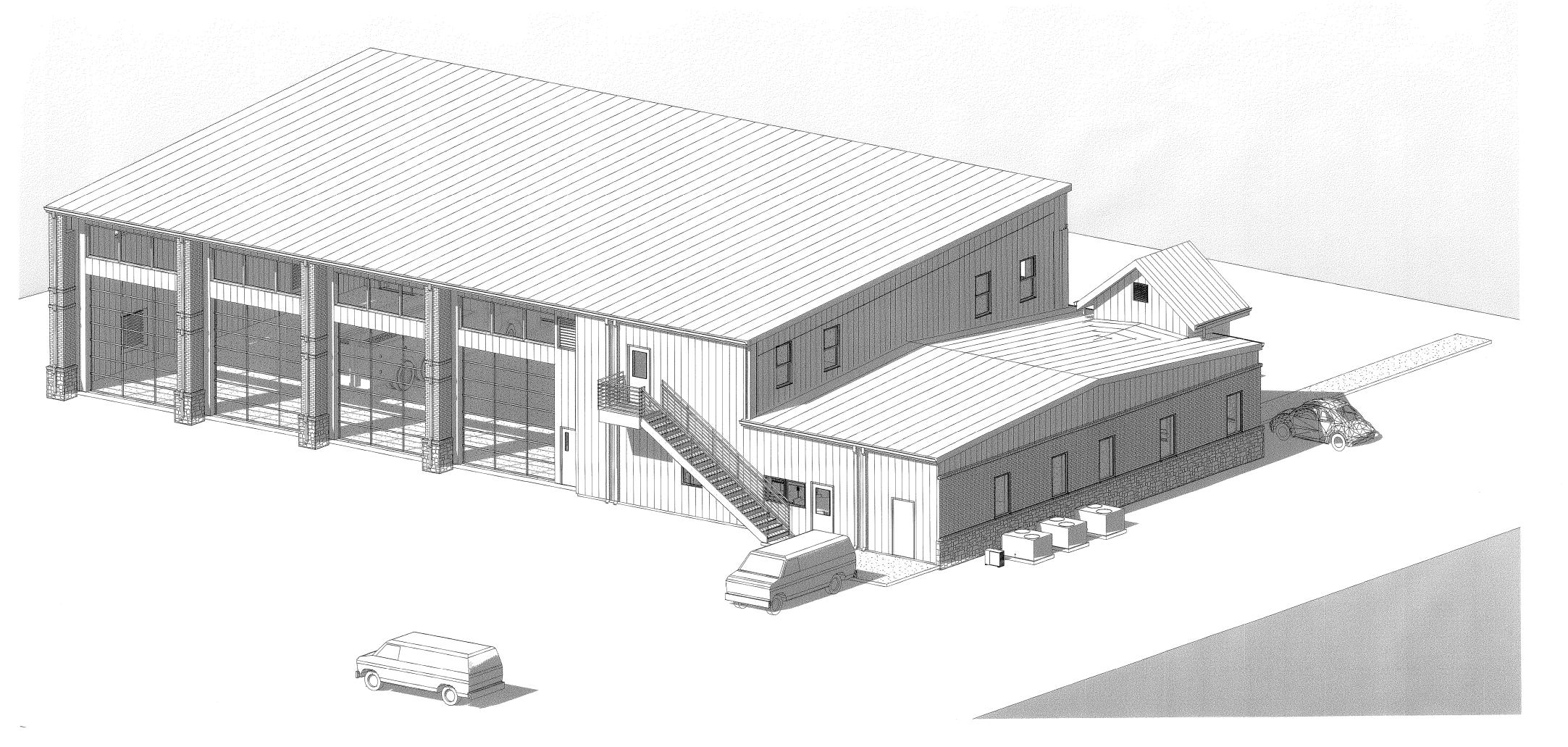
DRAWN BY:

EXTERIOR 3D VIEWS

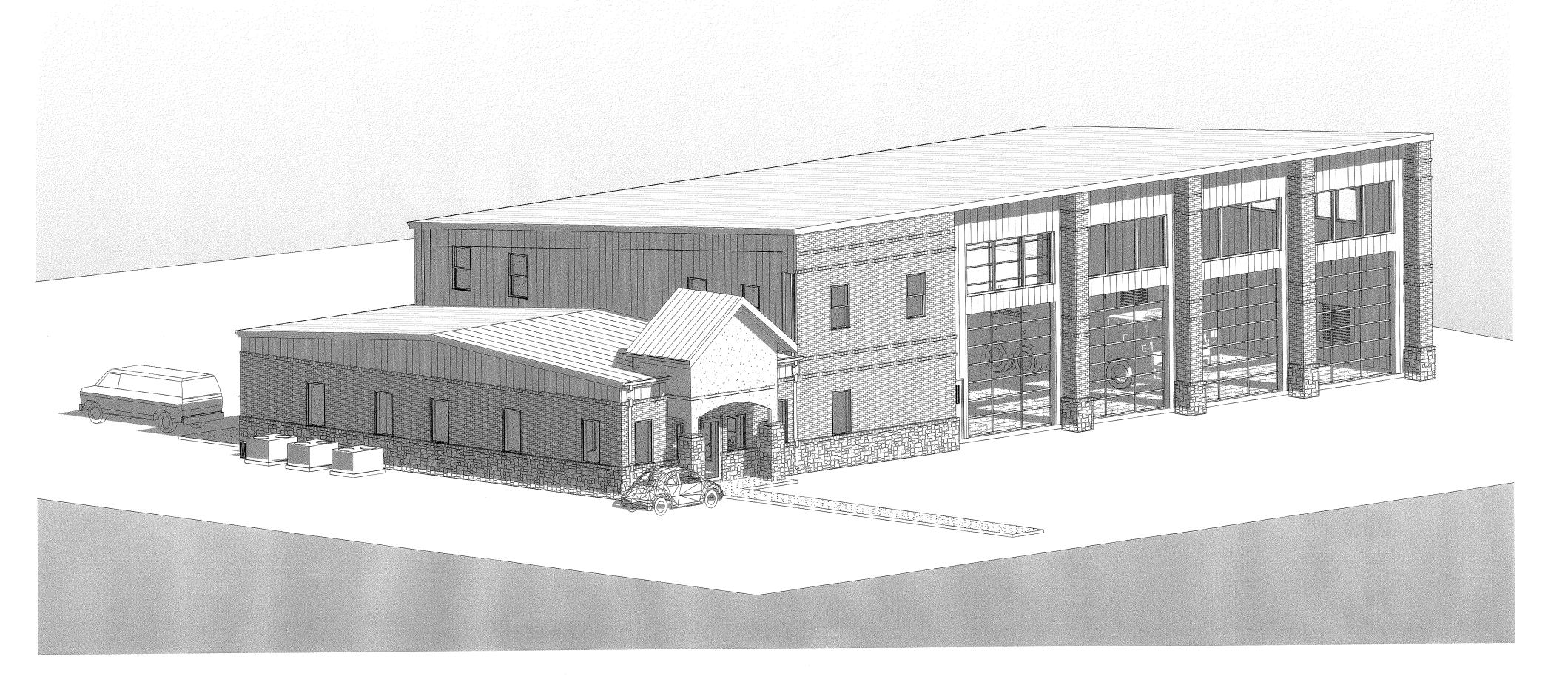
BWH

SHEET:

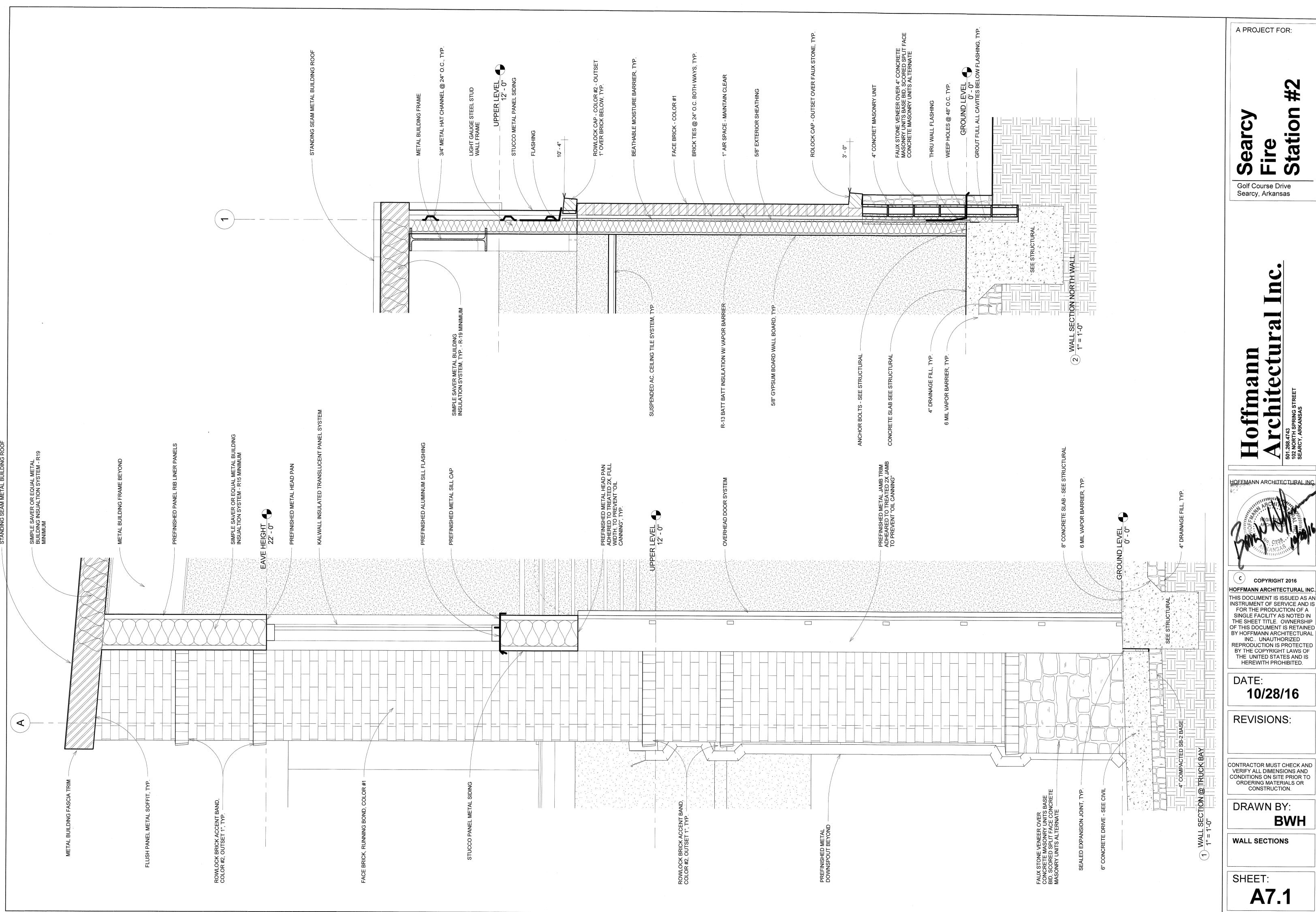
A4.1



4 VIEW FROM THE NE



1 VIEW FROM THE NORTHWEST



A PROJECT FOR:

Golf Course Drive Searcy, Arkansas

COPYRIGHT 2016

THIS DOCUMENT IS ISSUED AS AN INSTRUMENT OF SERVICE AND IS FOR THE PRODUCTION OF A SINGLE FACILITY AS NOTED IN THE SHEET TITLE. OWNERSHIP OF THIS DOCUMENT IS RETAINED BY HOFFMANN ARCHITECTURAL INC.. UNAUTHORIZED REPRODUCTION IS PROTECTED BY THE COPYRIGHT LAWS OF THE UNITED STATES AND IS HEREWITH PROHIBITED.

10/28/16

REVISIONS:

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON SITE PRIOR TO ORDERING MATERIALS OR CONSTRUCTION.

DRAWN BY: **BWH**

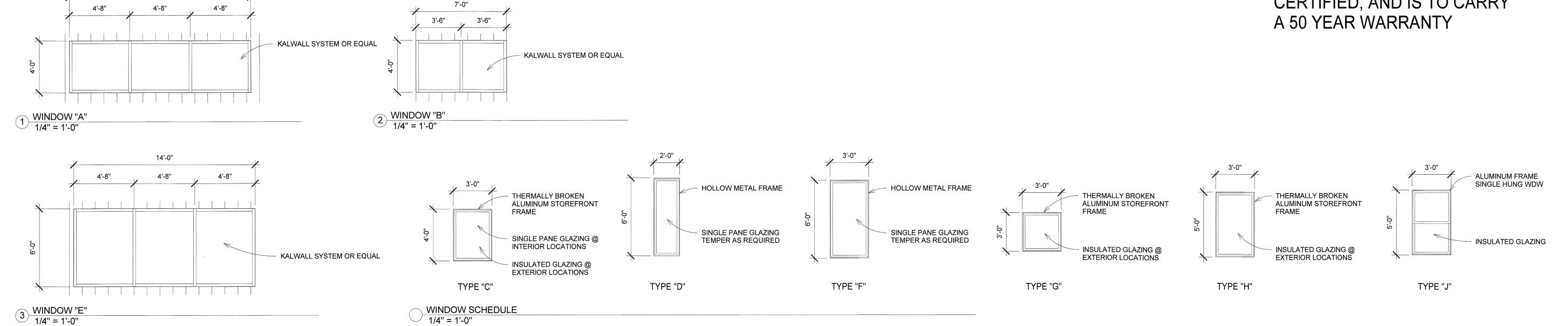
WALL SECTIONS

A7.1

DOOR SCHEDULE											
Mark WDTH HGT THKNS		Frame Material	Construction Type	HARDWARE	Comments						
101	3' - 0"	7' - 0"	0' - 2"	ALUMINUM STOREFRONT	ALUMINUM STOREFRONT	ENTRY SECURITY W/ CLOSER					
102	3' - 0"	6' - 8"	0' - 1 3/4"	HOLLOW METAL	SOLID CORE WOOD VISION PANEL - EQUAL TO GRAHAM FNV1	KEYED SECURITY					
103	3' - 0"	6' - 8"	0' - 1 3/4"	HOLLOW METAL	SOLID CORE WOOD VISION PANEL - EQUAL TO GRAHAM FNV1	KEYED SECURITY					
104	3' - 0"	6' - 8"	0' - 1 3/4"	HOLLOW METAL	SOLID CORE WOOD VISION PANEL - EQUAL TO GRAHAM FNV1	PASSAGE					
105A	3' - 0"	6' - 8"	0' - 1 3/4"	HOLLOW METAL	SOLID CORE WOOD - EQUAL TO GRAHAM F	KEYED SECURITY					
105B	3' - 0"	6' - 8"	0' - 1 3/4"	HOLLOW METAL	HOLLOW METAL - EQUAL TO CURRIES F	KEYED SECURITY					
106	3' - 0"	6' - 8"	0' - 1 3/4"	HOLLOW METAL	HALF GLASS HOLLOW METAL - EQUAL TO CURRIES HG	ENTRY SECURITY W/ CLOSER					
109	3' - 0"	6' - 8"	0' - 1 3/4"	HOLLOW METAL	SOLID CORE WOOD TRIPLE GLAZED - EQUAL TO GRAHAM FG3	PASSAGE					
110A	3' - 0"	6' - 8"	0' - 1 3/4"	HOLLOW METAL	SOLID CORE WOOD TRIPLE GLAZED - EQUAL TO GRAHAM FG3	KEYED SECURITY W/ CLOSER					
110B	3' - 0"	6' - 8"	0' - 1 3/4"	HOLLOW METAL	SOLID CORE WOOD 1/2 GLASS - EQUAL TO GRAHAM HG	ENTRY SECURITY W/ CLOSER					
111	3' - 0"	6' - 8"	0' - 1 3/4"	HOLLOW METAL	SOLID CORE WOOD TRIPLE GLAZED - EQUAL TO GRAHAM FG3	KEYED SECURITY					
112	3' - 0"	6' - 8"	0' - 1 3/4"	HOLLOW METAL	SOLID CORE WOOD - EQUAL TO GRAHAM F	PRIVACY W/ CLOSER					
113	3' - 0"	6' - 8"	0' - 1 3/4"	HOLLOW METAL	SOLID CORE WOOD - EQUAL TO GRAHAM F	PRIVACY W/ CLOSER					
114	3' - 0"	6' - 8"	0' - 1 3/4"	HOLLOW METAL	SOLID CORE WOOD - EQUAL TO GRAHAM F	KEYED SECURITY					
115	6' - 0"	6' - 8"	0' - 1 3/4"	HOLLOW METAL	SOLID CORE WOOD - EQUAL TO GRAHAM F	KEYED SECURITY W/ CLOSER					
116	3' - 0"	6' - 8"	0' - 1 3/4"	HOLLOW METAL	SOLID CORE WOOD 1/2 LOUVERED - 24"X28" LOUVER 8" FRM HEAD	PASSAGE					
117	3' - 0"	6' - 8"	0' - 1 3/4"	HOLLOW METAL	SOLID CORE WOOD 1/2 LOUVERED - 24"X28" LOUVER 8" FRM HEAD	KEYED SECURITY W/ CLOSER					
118	6' - 0"	6' - 8"	0' - 1 3/4"	HOLLOW METAL	SOLID CORE WOOD 1/2 LOUVERED - 24"X28" LOUVER 8" FRM HEAD	KEYED SECURITY W/ CLOSER					
119	3' - 6"	6' - 8"	0' - 1 3/4"	HOLLOW METAL	SOLID CORE WOOD - EQUAL TO CURRIES F	KEYED SECURITY W/ CLOSER					
120A	14' - 0"	14' - 0"	0' - 1 1/2"	OVERHEAD VERT. TRACK	ALUMINUM FRAME W/ INSULATED GLAZING	POWER OPERATED					
120B	14' - 0"	14' - 0"	0' - 1 1/2"	OVERHEAD VERT. TRACK	ALUMINUM FRAME W/ INSULATED GLAZING	POWER OPERATED	Annual 1977				
120C	14' - 0"	14' - 0"	0' - 1 1/2"	OVERHEAD VERT. TRACK	ALUMINUM FRAME W/ INSULATED GLAZING	POWER OPERATED					
120D	3' - 0"	6' - 8"	0' - 1 3/4"	HOLLOW METAL	SOLID CORE WOOD VISION PANEL - EQUAL TO GRAHAM FNV1	ENTRY SECURITY W/ CLOSER					
120E	3' - 0"	6' - 8"	0' - 1 3/4"	HOLLOW METAL	SOLID CORE WOOD VISION PANEL - EQUAL TO GRAHAM FNV1	ENTRY SECURITY W/ CLOSER					
120F	14' - 0"	14' - 0"	0' - 1 1/2"	OVERHEAD VERT. TRACK	ALUMINUM FRAME W/ INSULATED GLAZING	POWER OPERATED					
120G	14' - 0"	14' - 0"	0' - 1 1/2"	OVERHEAD VERT. TRACK	ALUMINUM FRAME W/ INSULATED GLAZING	POWER OPERATED					
120H	14' - 0"	14' - 0"	0' - 1 1/2"	OVERHEAD VERT. TRACK	ALUMINUM FRAME W/ INSULATED GLAZING	POWER OPERATED	A STATE OF THE STA				
120J	14' - 0"	14' - 0"	0' - 1 1/2"	OVERHEAD VERT. TRACK	ALUMINUM FRAME W/ INSULATED GLAZING	POWER OPERATED	444441000000000000000000000000000000000				
120K	14' - 0"	14' - 0"	0' - 1 1/2"	OVERHEAD VERT. TRACK	ALUMINUM FRAME W/ INSULATED GLAZING	POWER OPERATED	A LA MANAGEMENT CONTRACTOR CONTRA				
201	3' - 0"	6' - 8"	0' - 1 3/4"	HOLLOW METAL	SOLID CORE WOOD - EQUAL TO GRAHAM F	PRIVACY					
202	3' - 0"	6' - 8"	0' - 1 3/4"	HOLLOW METAL	SOLID CORE WOOD - EQUAL TO GRAHAM F	PRIVACY					
203	3' - 0"	6' - 8"	0' - 1 3/4"	HOLLOW METAL	SOLID CORE WOOD - EQUAL TO GRAHAM F	PRIVACY					
204	3' - 0"	6' - 8"	0' - 1 3/4"	HOLLOW METAL	SOLID CORE WOOD - EQUAL TO GRAHAM F	PRIVACY					
205	3' - 0"	6' - 8"	0' - 1 3/4"	HOLLOW METAL	SOLID CORE WOOD - EQUAL TO GRAHAM F	PRIVACY					
206	3' - 0"	6' - 8"	0' - 1 3/4"	HOLLOW METAL	HALF GLASS HOLLOW METAL - EQUAL TO CURRIES HG	ENTRY SECURITY W/ PANIC & CLOSER					
207	3' - 0"	6' - 8"	0' - 1 3/4"	HOLLOW METAL	SOLID CORE WOOD - EQUAL TO GRAHAM F	KEYED SECURITY W/ CLOSER	- HAMPAGA CARANTA CARA				
208	3' - 0"	6' - 8"	0' - 1 3/4"	HOLLOW METAL	SOLID CORE WOOD - EQUAL TO GRAHAM F	PRIVACY W/ CLOSER					
209	3' - 0"	6' - 8"	0' - 1 3/4"	HOLLOW METAL	SOLID CORE WOOD - EQUAL TO GRAHAM F	PRIVACY W/ CLOSER					
210	3' - 0"	6' - 8"	0' - 1 3/4"	HOLLOW METAL	SOLID CORE WOOD - EQUAL TO GRAHAM F	PRIVACY W/ CLOSER					
211	3' - 0"	6' - 8"	0' - 1 3/4"	HOLLOW METAL	SOLID CORE WOOD 1/2 GLASS - EQUAL TO GRAHAM HG	PASSAGE					
212	3' - 0"	6' - 8"	0' - 1 3/4"	HOLLOW METAL	SOLID CORE WOOD 1/2 GLASS - EQUAL TO GRAHAM HG	PASSAGE					

ROOM FINISH SCHEDULE											
Number	Name	Floor Finish	Base Finish	Wall Finish	Ceiling Finish	Comments					
101	RECEPTION	STAINED CONCRETE	4" RUBBER COVE BASE	GYPSUM BOARD FOR PAINT	2 X 2 SUSPENDED ACC. TILE						
102	OFFICE	CARPET	4" RUBBER COVE BASE	GYPSUM BOARD FOR PAINT	2 X 2 SUSPENDED ACC. TILE						
103	OFFICE	CARPET	4" RUBBER COVE BASE	GYPSUM BOARD FOR PAINT	2 X 2 SUSPENDED ACC. TILE						
104	FITNESS	CARPET	4" RUBBER COVE BASE	GYPSUM BOARD FOR PAINT	2 X 2 SUSPENDED ACC. TILE						
105	IT	SEALED CONCRETE	4" RUBBER COVE BASE	GYPSUM BOARD FOR PAINT	2 X 2 SUSPENDED ACC. TILE						
106	DINING	STAINED CONCRETE	4" RUBBER COVE BASE	GYPSUM BOARD FOR PAINT	2 X 2 SUSPENDED ACC. TILE						
107	BREAK ROOM	STAINED CONCRETE	4" RUBBER COVE BASE	GYPSUM BOARD FOR PAINT	2 X 2 SUSPENDED ACC. TILE	WASHABLE CEILING TILE					
108	PANTRY	STAINED CONCRETE	4" RUBBER COVE BASE	GYPSUM BOARD FOR PAINT	2 X 2 SUSPENDED ACC. TILE						
109	DAY ROOM	STAINED CONCRETE	4" RUBBER COVE BASE	GYPSUM BOARD FOR PAINT	2 X 2 SUSPENDED ACC. TILE						
110	CORRIDOR	STAINED CONCRETE	4" RUBBER COVE BASE	GYPSUM BOARD FOR PAINT	2 X 2 SUSPENDED ACC. TILE						
111	TRAINING	STAINED CONCRETE	4" RUBBER COVE BASE	GYPSUM BOARD FOR PAINT	2 X 2 SUSPENDED ACC. TILE						
112	TOILET	STAINED CONCRETE	4" RUBBER COVE BASE	GYPSUM BOARD FOR PAINT	2 X 2 SUSPENDED ACC. TILE	WASHABLE CEILING TILE					
113	TOILET	STAINED CONCRETE	4" RUBBER COVE BASE	GYPSUM BOARD FOR PAINT	2 X 2 SUSPENDED ACC. TILE	WASHABLE CEILING TILE					
114	JANITOR	STAINED CONCRETE	4" RUBBER COVE BASE	GYPSUM BOARD FOR PAINT	2 X 2 SUSPENDED ACC. TILE	WASHABLE CEILING TILE					
115	EQUIPMENT	EPOXY PAINTED CONCRETE	4" RUBBER COVE BASE	GYPSUM BOARD FOR PAINT	2 X 2 SUSPENDED ACC. TILE	WASHABLE CLILING TILL					
116	ICE	EPOXY PAINTED CONCRETE	4" RUBBER COVE BASE	GYPSUM BOARD FOR PAINT	2 X 2 SUSPENDED ACC. TILE						
117	LAUNDRY	EPOXY PAINTED CONCRETE	4" RUBBER COVE BASE	GYPSUM BOARD FOR PAINT	2 X 2 SUSPENDED ACC. TILE	WASHABLE CEILING TILE					
118	TOOL ROOM	EPOXY PAINTED CONCRETE	4" RUBBER COVE BASE	GYPSUM BOARD FOR PAINT	2 X 2 SUSPENDED ACC. TILE						
119	SCBA	EPOXY PAINTED CONCRETE	4" RUBBER COVE BASE	GYPSUM BOARD FOR PAINT	2 X 2 SUSPENDED ACC. TILE						
120	TRUCK BAYS	EPOXY PAINTED CONCRETE	4" RUBBER COVE BASE	GYPSUM BOARD FOR PAINT	EXPOSED TO STRUCTURE	BASE & PAINT @ GYP. BD. WAL ONLY					
121	PATIO	NONE									
201	SINGLE	CARPET	4" RUBBER COVE BASE	GYPSUM BOARD FOR PAINT	2 X 2 SUSPENDED ACC. TILE						
202	DOUBLE	CARPET	4" RUBBER COVE BASE	GYPSUM BOARD FOR PAINT	2 X 2 SUSPENDED ACC. TILE						
203	DOUBLE	CARPET	4" RUBBER COVE BASE	GYPSUM BOARD FOR PAINT	2 X 2 SUSPENDED ACC. TILE						
204	DOUBLE	CARPET	4" RUBBER COVE BASE	GYPSUM BOARD FOR PAINT	2 X 2 SUSPENDED ACC. TILE						
205	DOUBLE	CARPET	4" RUBBER COVE BASE	GYPSUM BOARD FOR PAINT	2 X 2 SUSPENDED ACC. TILE						
206	CORRIDOR	VINYL COMPOSITION TILE	4" RUBBER COVE BASE	GYPSUM BOARD FOR PAINT	2 X 2 SUSPENDED ACC. TILE						
207	JANITOR	SEALED CONCRETE	4" RUBBER COVE BASE	GYPSUM BOARD FOR PAINT	2 X 2 SUSPENDED ACC. TILE	WASHABLE CEILING TILE					
208	TOILET	VINYL COMPOSITION TILE	4" RUBBER COVE BASE	GYPSUM BOARD FOR PAINT	2 X 2 SUSPENDED ACC. TILE	WASHABLE CEILING TILE					
209	TOILET	VINYL COMPOSITION TILE	4" RUBBER COVE BASE	GYPSUM BOARD FOR PAINT	2 X 2 SUSPENDED ACC. TILE	WASHABLE CEILING TILE					
210	TOILET	VINYL COMPOSITION TILE	4" RUBBER COVE BASE	GYPSUM BOARD FOR PAINT	2 X 2 SUSPENDED ACC. TILE	WASHABLE CEILING TILE					
211	TURN-OUT	VINYL COMPOSITION TILE	4" RUBBER COVE BASE	GYPSUM BOARD FOR PAINT	2 X 2 SUSPENDED ACC. TILE						
212	POLE	SEALED CONCRETE	4" RUBBER COVE BASE	GYPSUM BOARD FOR PAINT	2 X 2 SUSPENDED ACC. TILE						
213	LEDGE	SEALED CONCRETE	4" RUBBER COVE BASE	GYPSUM BOARD FOR PAINT	EXPOSED TO STRUCTURE						

GENERAL NOTE:
FAUX STONE VENEER IS TO
BE EQUAL TO ELDORADO
BLUFFSTONE, UL CERTIFIED,
CE CERTIFIED, ICC-ES
CERTIFIED, AND IS TO CARRY
A 50 YEAR WARRANTY

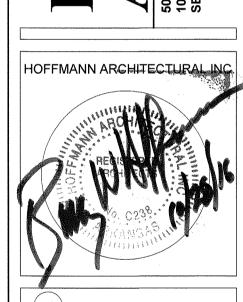


A PROJECT FOR:

Searcy Fire Station #

Golf Course Drive Searcy, Arkansas

Hoffmann Architectural Inc.



C COPYRIGHT 2016

HOFFMANN ARCHITECTURAL INC.
THIS DOCUMENT IS ISSUED AS AN INSTRUMENT OF SERVICE AND IS FOR THE PRODUCTION OF A SINGLE FACILITY AS NOTED IN THE SHEET TITLE. OWNERSHIP OF THIS DOCUMENT IS RETAINED BY HOFFMANN ARCHITECTURAL INC.. UNAUTHORIZED REPRODUCTION IS PROTECTED BY THE COPYRIGHT LAWS OF THE UNITED STATES AND IS HEREWITH PROHIBITED.

DATE: 10/28/16

REVISIONS: 07/06/12 REV. #01

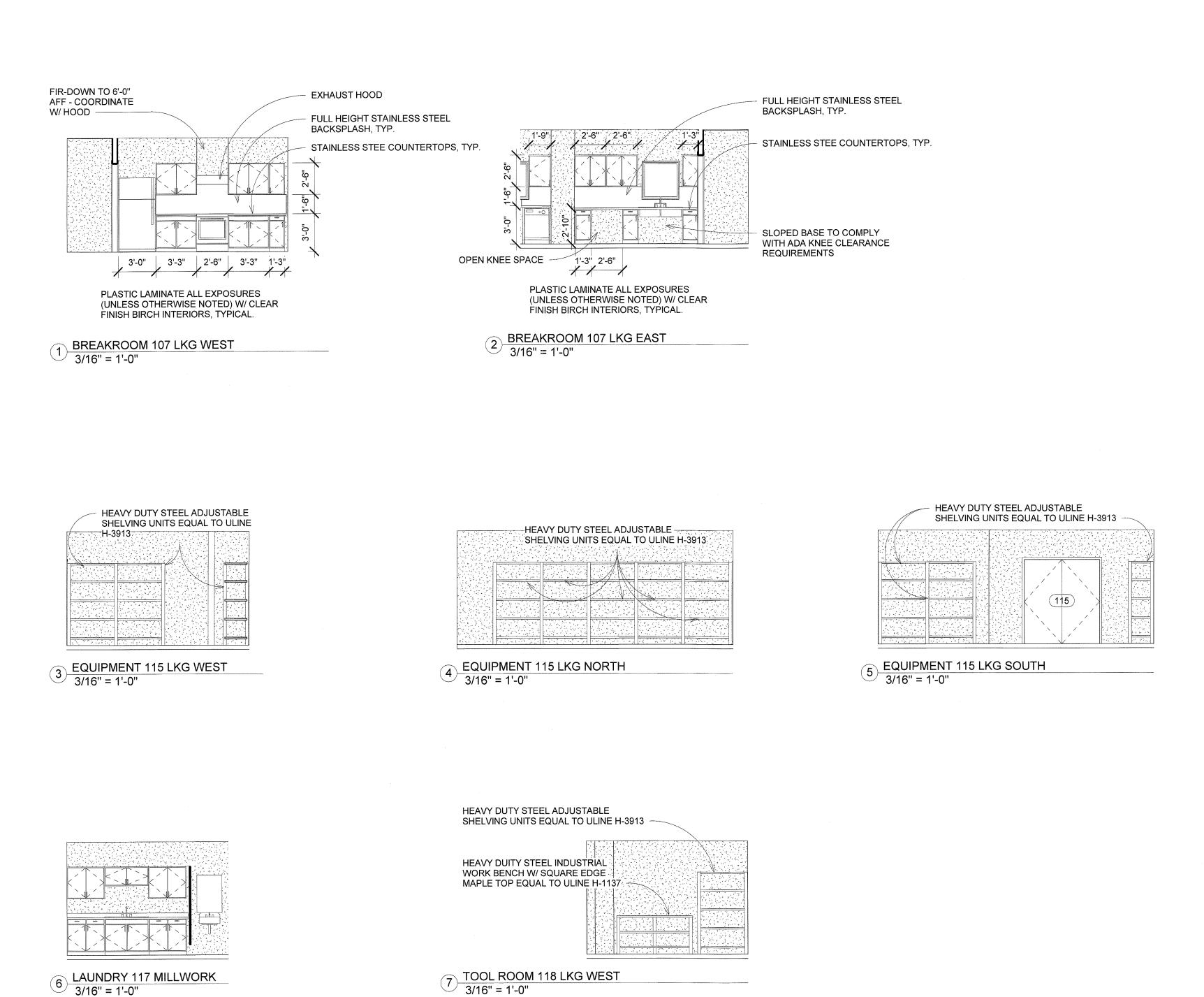
07/06/12 REV. #01

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON SITE PRIOR TO ORDERING MATERIALS OR CONSTRUCTION.

DRAWN BY:

SCHEDULES

SHEET: **A8.1**



6 LAUNDRY 117 MILLWORK 3/16" = 1'-0"

HOFFMANN ARCHITECTURAL INC.

A PROJECT FOR:

Golf Course Drive Searcy, Arkansas

2

offmann

tatio

COPYRIGHT 2016 HOFFMANN ARCHITECTURAL INC. THIS DOCUMENT IS ISSUED AS AN INSTRUMENT OF SERVICE AND IS FOR THE PRODUCTION OF A SINGLE FACILITY AS NOTED IN THE SHEET TITLE. OWNERSHIP

OF THIS DOCUMENT IS RETAINED BY HOFFMANN ARCHITECTURAL INC.. UNAUTHORIZED
REPRODUCTION IS PROTECTED
BY THE COPYRIGHT LAWS OF
THE UNITED STATES AND IS
HEREWITH PROHIBITED.

DATE: 10/28/16

REVISIONS:

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON SITE PRIOR TO ORDERING MATERIALS OR CONSTRUCTION.

DRAWN BY: **BWH**

MILLWORK

SHEET:

GENERAL NOTES:

- THE CONTRACTOR SHALL THOROUGHLY REVIEW ALL CONTRACT DOCUMENTS AND INFORM THE ARCHITECT OF CONFLICTS OR DISCREPANCIES PRIOR TO BIDDING, FABRICATION, AND CONSTRUCTION.
- 2. IN CASES OF DISCREPANCIES IN DIMENSIONS AND ELEVATIONS BETWEEN STRUCTURAL AND ARCHITECTURAL DRAWINGS, CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT PRIOR TO FABRICATION AND CONSTRUCTION.
- 3. THE CONTRACTOR SHALL COORDINATE THE FIELD VERIFICATION OF ALL EXISTING SITE CONDITIONS SUCH AS EXISTING FLOOR ELEVATIONS, EXISTING FOOTING ELEVATIONS, EXISTING UTILITIES, ETC, WHETHER NOTED OR NOT IN THE CONTRACT DOCUMENTS AND SHALL NOTIFY THE ARCHITECT OF ANY CONFLICTS, DISCREPANCIES OR UNKNOWN CONDITIONS PRIOR TO FABRICATION AND CONSTRUCTION.
- 4. REPRODUCTION OF CONTRACT DRAWINGS, IN ANY FORM, WILL NOT BE ACCEPTED AS SHOP
- 5. REVIEW OF SUBMITTALS AND/OR SHOP DRAWINGS BY THE STRUCTURAL ENGINEER-OF-RECORD DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTAL FOR REVIEW. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS. CONTRACTOR ALSO SHALL BE RESPONSIBLE FOR ALL MEANS, METHODS, TECHNIQUES, AND PROCEDURES OF CONSTRUCTION.
- 6. CONTRACTOR SHALL PROVIDE TEMPORARY GUYS AND BRACING AS REQUIRED DURING CONSTRUCTION. STRUCTURE IS NOT STABLE UNTIL ALL STRUCTURAL MEMBERS, CONNECTIONS, AND DECKING IS IN PLACE.
- 7. ACI, AISC, AITC AND AWS SPECIFICATIONS SHALL GOVERN ALL PHASES OF FABRICATION AND CONSTRUCTION.

FOUNDATION NOTES

- I. CONCRETE SHALL BEAR ON FIRM NATURAL SOIL OR PROPERLY COMPACTED SELECT FILL WITH AN ALLOWABLE NET BEARING CAPACITY OF AT LEAST 2500 PSF.
- 2. ALL FOOTING EXCAVATIONS SHALL BE INSPECTED BY THE SOILS ENGINEER OR HIS REPRESENTATIVE TO VERIFY THAT THE DESIGN NET BEARING CAPACITY IS ATTAINABLE.
- 3. SOFT SOILS ENCOUNTERED BENEATH THE BUILDING SHALL BE UNDERCUT AND REPLACED WITH PROPERLY COMPACTED, LOW PLASTICITY, SELECT FILL. BACKFILL BOTH SIDES OF ALL WALLS EQUALLY UNTIL LOW SIDE IS UP TO GRADE.
- 4. ALL FILL SHALL BE COMPACTED TO AT LEAST 95% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY, ASTM
- 5. FOOTING DESIGN SHOWN ON THESE DRAWING ARE FOR ESTIMATING PURPOSES & ARE SUBJECT TO REVISIONS PENDING REVIEW OF METAL BUILDING DESIGN REACTIONS & SOIL ENGINEER'S REPORT. CONTRACTOR TO SUBMIT METAL BUILDING REACTIONS TO ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. FINAL FOOTING SIZES MAY VARY FROM SIZES INDICATED ON THESE DRAWINGS.

- I. CONCRETE MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 3,500 PSI.
- 2. ALL MILD REINFORCEMENT BAR SHALL BE A615 GRADE 60 STEEL. ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185, GRADE 65. ALL WELDED WIRE FABRIC SHALL BE IN SHEETS AND SHALL BE
- 3. BENDING DIMENSIONS & TOLERANCES FOR REINFORCING BAR SHALL CONFORM TO CURRENT CRSI MANUAL OF STANDARD PRACTICE.
- 4. LAP SPLICES SHALL CONFORM TO THE CURRENT CRSI MANUAL OF STANDARD PRACTICE UNLESS
- 5. HORIZONTAL CONSTRUCTION JOINTS TO BE SCRUBBED WITH A COARSE WIRE BRUSH AT THE APPROXIMATE TIME OF INITIAL SET TO REMOVE ALL LATINATE AND TO PRODUCE A ROUGHENED SURFACE.
- 6. CONCRETE WORK SHALL COMPLY WITH THE LATEST ACI "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301) AND APPLICABLE PROVISIONS OF ACI 318, KEEP A COPY OF ACI FIELD REFERENCE MANUAL (ACI SP-15) WHICH INCLUDES ACI 301 AND OTHER ACI AND ASTM REFERENCES ON THE JOB.
- 7. DETAILING, FABRICATING, AND PLACING OF REINFORCING STEEL AND ACCESSORIES SHALL BE IN ACCORDANCE WITH ACI "MANUAL OF STANDARD PRACTICE FOR REINFORCED CONCRETE STRUCTURES" (ACI 315) AND SHALL COMPLY WITH (ACI 318) AND WITH (ACI 301).

PRE-ENGINEERED LT GAGE METAL FRAMING:

- I. ALL METAL FRAMING SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AMERICAN IRON AND STEEL INSTITUTE'S "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS."
- 2. METAL FRAMING SHALL BE OF THE SIZE, GAGE AND SECTION PROPERTIES INDICATED ON THE DRAWING OR AS REQUIRED FOR THE SPECIFIC LOADING CONDITION. THE DEFLECTION LIMIT OF THE EXTERIOR STUDS SUBJECT TO WIND LOAD IS L/600.
- 3. ALL WELDING OF METAL FRAMING SHALL BE PERFORMED BY CERTIFIED WELDERS EXPERIENCED IN THE WELDING OF LIGHT GAGE MEMBERS.
- 4. ALL METAL FRAMING SHALL BE SAW CUT, SQUARE AND TRUE. CUTTING OF METAL FRAMING WITH A TORCH WILL NOT BE PERMITTED.
- 5. PRIOR TO PROCEEDING W/ ANY METAL FRAMING WORK, THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT/ENGINEER, FOR APPROVAL, SHOP DRAWINGS SHOWING THE SIZE, LOCATION & CONNECTION DETAILS OF ALL LOAD BEARING METAL FRAMING AND ALL EXTERIOR FRAMING. SHOP DRAWINGS SHALL INCLUDE A PLAN AND ELEVATION OF ALL WALL OR SOFFIT FRAMING AND CONNECTION DETAILS. THE CONTRACTOR SHALL ALSO SUBMIT CALCULATIONS PREPARED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF ARKANSAS WHICH DEMONSTRATE THAT ALL APPLIED LOADS WILL BE RESISTED BY THE SUPPLIED FRAMING SYSTEM.
- 6. ALL METAL STUD WALLS SHALL BE BRACED AND CONNECTED TO RESIST ALL LATERAL LOADS.
- T. ALL NON-LOAD BEARING WALL TRACKS CONNECTED TO THE UNDER SIDE OF STEEL BEAMS, STEEL PLATES OR SLABS SHALL BE DEEP TRACK WITH SLOTTED HOLES TO ALLOW VERTICAL MOVEMENT OF I"

STRUCTURAL STEEL:

- I. STRUCTURAL STEEL SUPPLIER SHALL SUBMIT SHOP DRAWINGS TO THE ARCHITECT FOR REVIEW PRIOR TO FABRICATION
- 2. STRUCTURAL STEEL SUPPLIER SHALL SUBMIT SHOP DRAWINGS PREPARED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF ARKANSAS TO THE ARCHITECT FOR REVIEW PRIOR TO
- 3. ALL STRUCTURAL STEEL SHAPES SHALL BE AS FOLLOWS: ALL WIDE FLANGE STRUCTURAL STEEL SHAPES SHALL BE ASTM A992. SQUARE OR RECTANGULAR HOLLOW STRUCTURAL SECTIONS SHALL BE ASTM A500, GRADE B, FY = 46 KSI ROUND HOLLOW STRUCTURAL SECTIONS SHALL BE ASTM A500, GRADE B, FY = 42 KSI ROUND STEEL PIPES SHALL BE ASTM A53, GRADE B, FY = 35 KSI.
- ALL OTHER STRUCTURAL STEEL (CHANNELS, ANGLES, PLATES, ETC.) SHALL BE ASTM A36.
- 4. ALL ANCHOR RODS SHALL BE ASTM F1554 GRADE 36 UNLESS NOTED OTHERWISE.
- 5. STRUCTURAL BOLTS SHALL BE ASTM A325-N, UNLESS OTHERWISE NOTED.
- 6. BOLTS THRU WOOD BLOCKING SHALL BE ASTM A307. ALL BOLTS IN CONTACT WITH TREATED WOOD SHALL BE STAINLESS STEEL (TYPE 316L), OR HOT DIPPED GALVANIZED WITH A MINIMUM COATING THICKNESS OF 0.2 OUNCES PER SQUARE FOOT (ASTM A153). USE STAINLESS BOLTS WITH STAINLESS STEEL CONNECTORS AND GALVANIZED BOLTS WITH GALVANIZED CONNECTORS IF ONLY ONE IS SPECIFIED.
- 7. POST-INSTALLED ADHESIVE ANCHORS SHALL BE STANDARD HAS-E CARBON STEEL ANCHORS (OR APPROVED EQUAL) WITH A MINIMUM STEEL YIELD STRENGTH OF FY=58 KSI OR ASTM F593 STAINLESS STEEL ANCHORS WITH A MINIMUM STEEEL YIELD STRENGTH OF FY=45KSI, UNLESS SHOWN OTHERWISE ON THE DRAWINGS. ADHESIVE SHALL BE HILTI HIT HY150 EPOXY MAX SYSTEM (OR APPROVED EQUAL) IN CONCRETE OR FILLED CMU CELLS AND HILTI HIT HY20 EPOXY SYSTEM (OR APPROVED EQUAL) IN HOLLOW CMU OR CLAY MASONRY.
- 8. POST-INSTALLED EXPANSION ANCHORS SHALL BE HILTI KWIK BOLT II (OR APPROVED EQUAL) ASTM ASIO CARBON STEEL ANCHORS WITH A MINIMUM STEEL YIELD STRENGTH OF FY=41 KSI, OR ASTM A276 (OR ASTM A493) STAINLESS STEEL ANCHORS WITH A MINIMUM YIELD STRENGTH FY=64 KSI. UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
- 9. CONNECTIONS SHALL BE DESIGNED CONSIDERING BOLT THREADS INCLUDED IN THE SHEAR PLANE (A325-N). ALL BOLTING SHALL BE INSTALLED BY THE TURN-OF-THE-NUT METHOD, REMOVABLE LOAD INDICATOR BOLTS, OR CALIBRATED WRENCH. SNUG TIGHT BOLTING WILL NOT BE PERMITTED UNLESS SPECIFICALLY DETAILED ON CONTRACT DRAWINGS.
- IO. ALL BOLTED CONNECTIONS (EXCEPT COMPOSITE FLOOR BEAM CONNECTIONS) SHALL BE BEARING TYPE SELECTED TO SUPPORT ONE-HALF (1/2) OF THE TOTAL UNIFORM LOAD CAPACITY OF THE BEAMS AS SHOWN IN THE TABLES OF UNIFORM LOAD CONSTANTS, PART 2 OF THE AISC MANUAL, 8TH EDITION, FOR THE GIVEN BEAM SIZE, SPAN AND GRADE OF STEEL SPECIFIED. THE EFFECTS OF ANY CONCENTRATED LOADS MUST BE TAKEN INTO ACCOUNT. CONNECTIONS SHALL BE DESIGNED CONSIDERING THREADS INCLUDED IN THE SHEAR PLANE (A325-N).
- II. ALL WELDS SHALL BE ETOXX, MINIMUM AND SHALL BE PERFORMED BY AWS CERTIFIED WELDERS, CERTIFIED WITHIN THE PREVIOUS TWELVE (12) MONTHS.
- 12. DO NOT PRIME PAINT STEEL THAT RECEIVES SPRAYED FIREPROOFING.
- 13. ALL STEEL LINTELS AND SHELF ANGLES SHALL BE COATED WITH A ZINC RICH PRIMER.
- 14. ALL STRUCTURAL STEEL EXPOSED TO WEATHER (SUCH AS MECHANICAL FRAMES) SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.

PRE-ENGINEERED METAL BUILDING:

- I. METAL BUILDING MANUFACTURER SHALL PROVIDE SHOP DRAWINGS SEALED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF ARKANSAS TO THE ARCHITECT FOR REVIEW PRIOR TO FABRICATION.
- 2. METAL BUILDING SHOP DRAWINGS WILL NOT BE REVIEWED IF THE LAYOUT DOES NOT FOLLOW THE LAYOUT PROPOSED IN THE CONTRACT DRAWINGS AND IF ANY DEVIATIONS FROM THE PROPOSED LAYOUT ARE NOT CLEARLY MARKED ON THE SHOP DRAWINGS OR APPROVED IN WRITING PRIOR TO SUBMITTAL.
- 3. METAL BUILDING FRAMING LAYOUT AND MEMBERS SHOWN ARE SUGGESTED ONLY. MANUFACTURER IS RESPONSIBLE FOR COORDINATING REQUIREMENTS WITH OWNER AND PROVIDING A COMPLETE STRUCTURAL FRAMING SYSTEM DESIGNED BY THE MANUFACTURER. METAL BUILDING MANUFACTURER SHALL COORDINATE ALL DIMENSIONS, ELEVATIONS, BRACING, AND SIZES AND SHAPES OF MEMBERS WITH OWNER PRIOR TO FABRICATION AND CONSTRUCTION. ALL MEMBERS, CONNECTIONS AND DECKING NOT SPECIFICALLY SIZED ON DRAWINGS SHALL BE DESIGNED AND SUPPLIED BY THE METAL BUILDING
- 4. METAL BUILDING VERTICAL BRACING SHALL CONSIST OF PORTAL FRAMES OR ROD BRACES AT THE LOCATIONS SHOWN ON THE PLANS. THE METAL BUILDING MANUFACTURER SHALL COORDINATE THE LOCATION OF ALL BRACES TO MINIMIZE INTERFERENCE WITH ARCHITECTURAL FEATURES. ROD OR CABLE BRACES MAY NOT BE SUBSTITUTED WHERE PORTAL FRAMES ARE SHOWN. WHERE X-BRACES ARE USED, THE METAL BUILDING MANUFACTURER SHALL CLEARLY IDENTIFY TO THE ARCHITECT ALL INTERFERENCES WITH ARCHITECTURAL FEATURES. WHERE ARCHITECTURAL FEATURES (COLUMN SURROUNDS, CEILINGS, FURR DOWNS, ETC) ARE PROVIDED TO COVER OR SURROUND THE METAL BUILDING COMPONENTS (COLUMNS, FRAMES, ETC.), THE METAL BUILDING COMPONENTS SHALL BE SIZED TO STAY WITHIN THE LIMITS OF THE ARCHITECTURAL FEATURES UNLESS THE ARCHITECT IS NOTIFIED IN WRITING PRIOR TO SUBMISSION OF THE APPROVAL DRAWINGS AND APPROVAL IS GIVEN FOR AN EXCEPTION.
- 5. MAXIMUM PURLIN LIVE LOAD DEFLECTION SHALL NOT EXCEED SPAN/360 OR I" WHICHEVER IS LESS.
- 6. FRAME LIVE LOAD DEFLECTION SHALL NOT EXCEED SPAN/360.
- 7. MAXIMUM GIRT LATERAL DEFLECTION FROM WIND OR SEISMIC LOADS SHALL NOT EXCEED SPAN/240 FOR GIRTS PROVIDING LATERAL SUPPORT FOR METAL SIDING ONLY. MAXIMUM GIRT LATERAL DEFLECTION FROM WIND OR SEISMIC LOADS SHALL NOT EXCEED SPAN/360 FOR GIRTS PROVIDING LATERAL SUPPORT FOR BRICK.
- 8. MAXIMUM BUILDING SIDESWAY (DRIFT) FROM WIND OR SEISMIC LOADS SHALL NOT EXCEED WALL HEIGHT/240.
- 9. THE GENERAL CONTRACTOR AND METAL BUILDING MANUFACTURER SHALL BE RESPONSIBLE FOR OVERALL BUILDING COORDINATION. ALL COORDINATION OF THE INTERFACE AND COMPATIBILITY BETWEEN THE METAL BUILDING AND THE ARCHITECTURAL FEATURES SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND THE METAL BUILDING MANUFACTURER.
- 10. DESIGN OF THE METAL BUILDING USING DEAD, LIVE, SEISMIC, WIND AND SNOW LOADS IN THE CODE REQUIRED COMBINATIONS SHALL BE PERFORMED BY THE METAL BUILDING MANUFACTURER.

DESIGN LOADS - IBC 2012 & ASCE 7 - 10: WEIGHT OF THE STRUCTURE DEAD LOADS: ROOF LIVE LOAD: 20 PSF FLOOR LIVE LOADS: SLEEPING ROOMS 40 PSF CLASSROOMS 40 PSF CELL BLOCKS 40 PSF 50 PSF OFFICES PARKING GARAGES 50 PSF LIBRARY READING ROOMS 60 PSF 80 PSF CORRIDORS 100 PSF LOBBIES 100 PSF ASSEMBLY AREAS 100 PSF STAIRS 100 PSF BLEACHERS/GRANDSTANDS 60 PSF MECH MEZZANINE 125 PSF STAGES LIBRARY STACK ROOMS 125 PSF

GROUND SNOW LOAD: FLAT ROOF SNOW LOAD, Pt:

SNOW EXPOSURE FACTOR, Ce: SNOW IMPORTANCE FACTOR, I. 1.2 THERMAL FACTOR, Ct

I. ULTIMATE WIND SPEED, Vult: 120 MPH NOMINAL WIND SPEED, Vasd: 93 MPH 2. RISK CATEGORY: IV 3. WIND EXPOSURE : B

4. INTERNAL PRESSURE COEFFICIENT(S): GCPI = +/- O.18

I. RISK CATEGORY: IV 2. SEISMIC IMPORTANCE FACTOR, Ie = 1.5 3. MAPPED SPECTRAL RESPONSE: 55 = 0.61351 = 0.2264: SITE CLASS: D 5. DESIGN SPECTRAL RESPONSE FACTORS: 505 = 0.535

5D1 = 0.2936. SEISMIC DESIGN CATEGORY: D METAL BUILDING: 7. BASIC SEISMIC RESISTING SYSTEM:

C. MOMENT RESISTING FRAMES I. STEEL ORDINARY MOMENT FRAMES 8. DESIGN BASE SHEAR, V=0.229 x W 9. SEISMIC RESPONSE COEF, Cs. 0.229

10 RESPONSE MODIFICATION FACTOR, R = 31/2 II. ANALYSIS PROCEDURE : EQUIVALENT LATERAL FORCE PROCEDURE

2ND FLOOR FRAMING:

1. BASIC SEISMIC RESISTING SYSTEM: B. BUILDING FRAME SYSTEM 3. STEEL ORDINARY CONCENTRIC BRACED FRAMES 8. DESIGN BASE SHEAR, V=0.247 x W 9. SEISMIC RESPONSE COEF, Cs. 0.247 IO RESPONSE MODIFICATION FACTOR, R = 34

II. ANALYSIS PROCEDURE : EQUIVALENT LATERAL FORCE PROCEDURE

PRE-ENGINEERED METAL BUILDING LOADS:

DEAD LOADS: ROOF LIVE LOAD:

WEIGHT OF THE STRUCTURE 20 PSF (NO REDUCTIONS ALLOWED) COLLATERAL LOAD: HANGING EQUIP'T, LIGHTS, CEILINGS, ETC. (7 PSF MINIMUM COLLATERAL LOAD. INCLUDE ACTUAL WT OF SUSPENDED EQ'T.)

ALSO SEE 'DESIGN LOADS' LISTED ON THIS SHEET FOR ADDITIONAL REQUIREMENTS.

I HEREBY CERTIFY THAT THE STRUCTURAL PLANS SUBMITTED HEREWITH ARE DESIGNED WITH THE STRUCTURAL LOAD CARRYING ELEMENTS TO RESIST THE ANTICIPATED FORCES OF THE DESIGNATED SEISMIC ZONE IN WHICH THE STRUCTURE IS LOCATED IN ACCORDANCE WITH ARKANSAS ACT 1100 OF 1991.

AR C HO

7

O

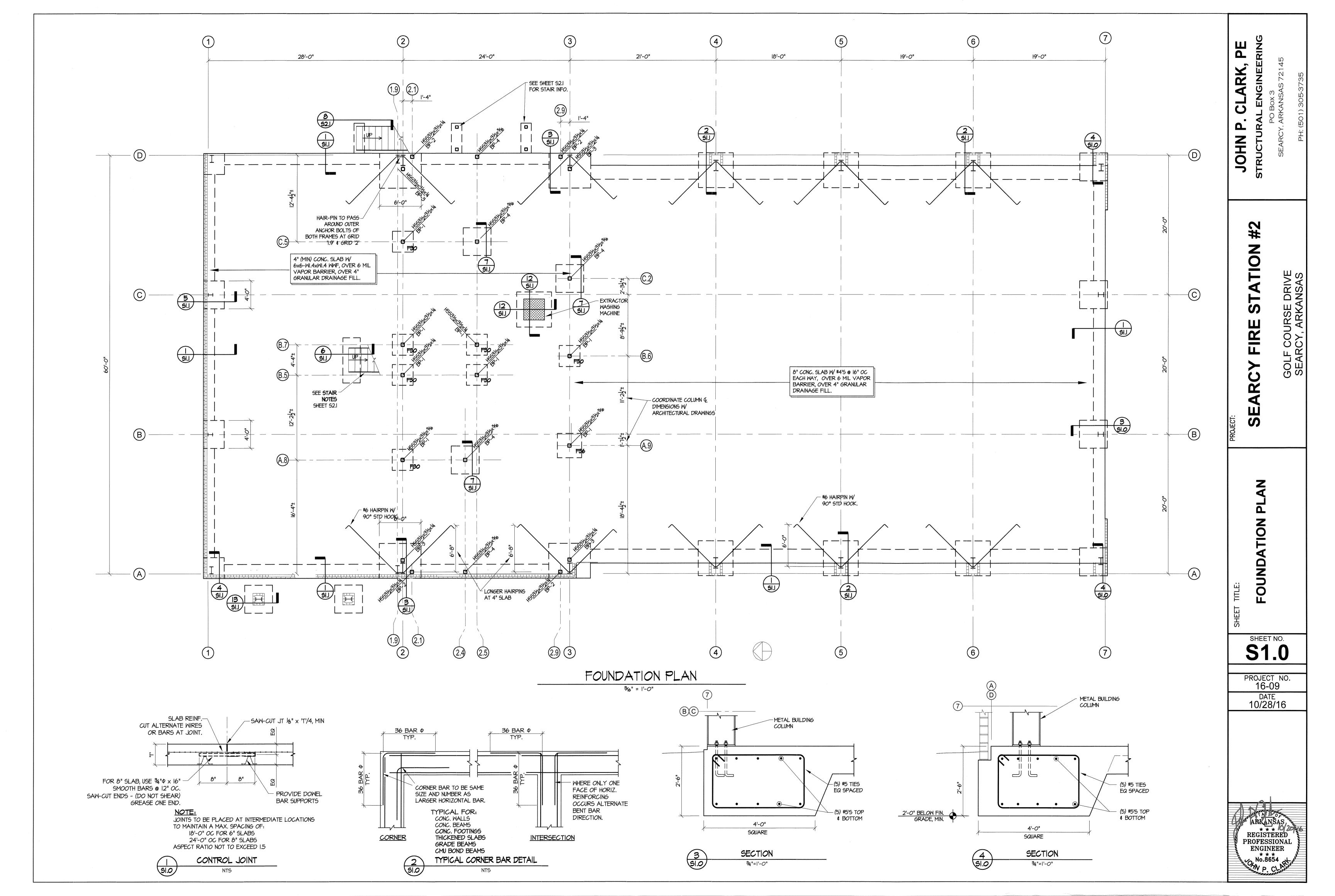
0

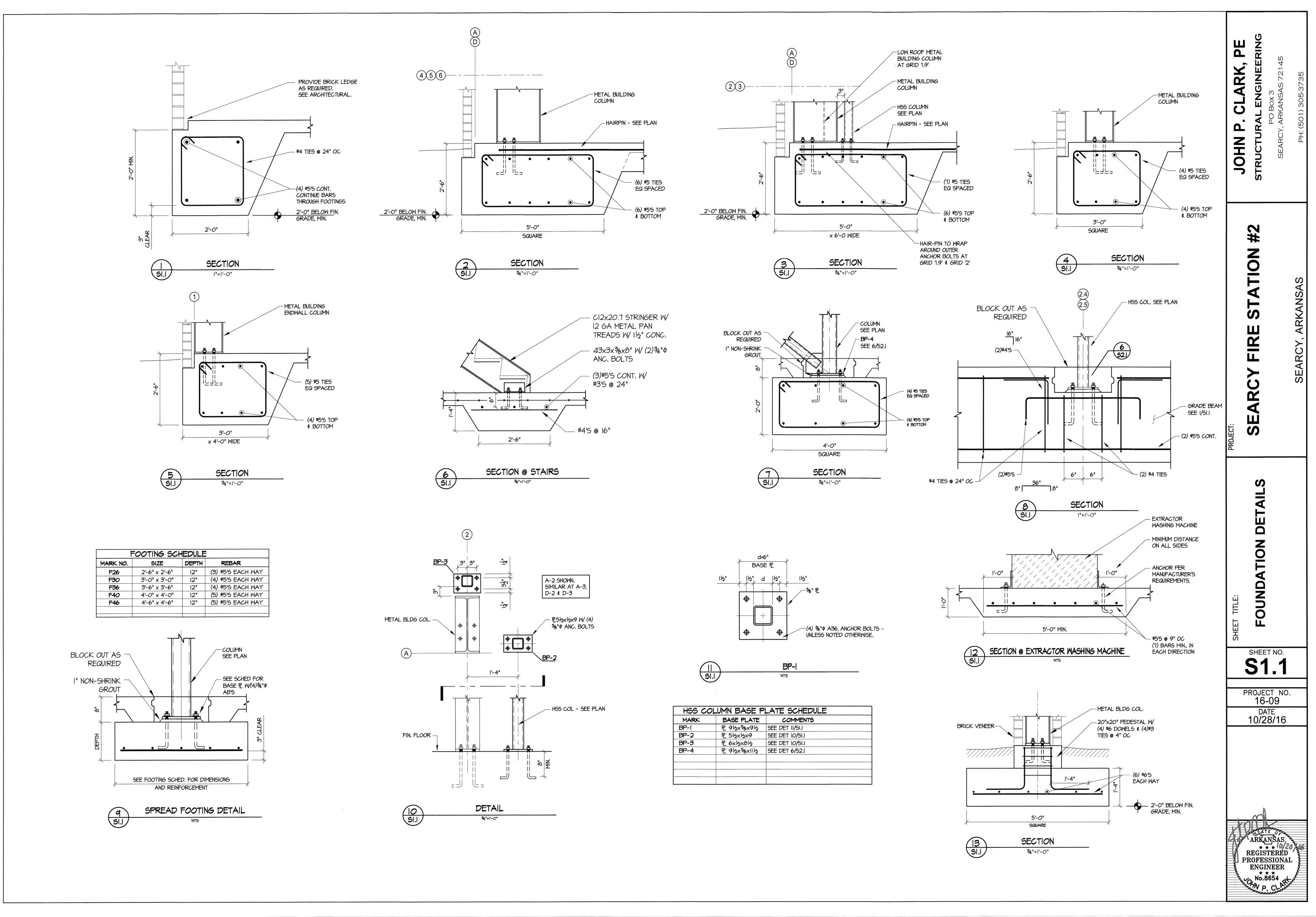
SHEET NO.

PROJECT NO.

16-09 DATE 10/28/16 REVISION

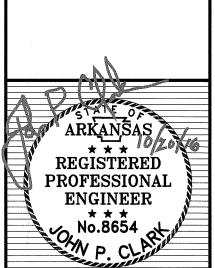
* * * " REGISTERED PROFESSIONAL PROFESSIONAL **ENGINEER** $\star\star\star$ No.8654

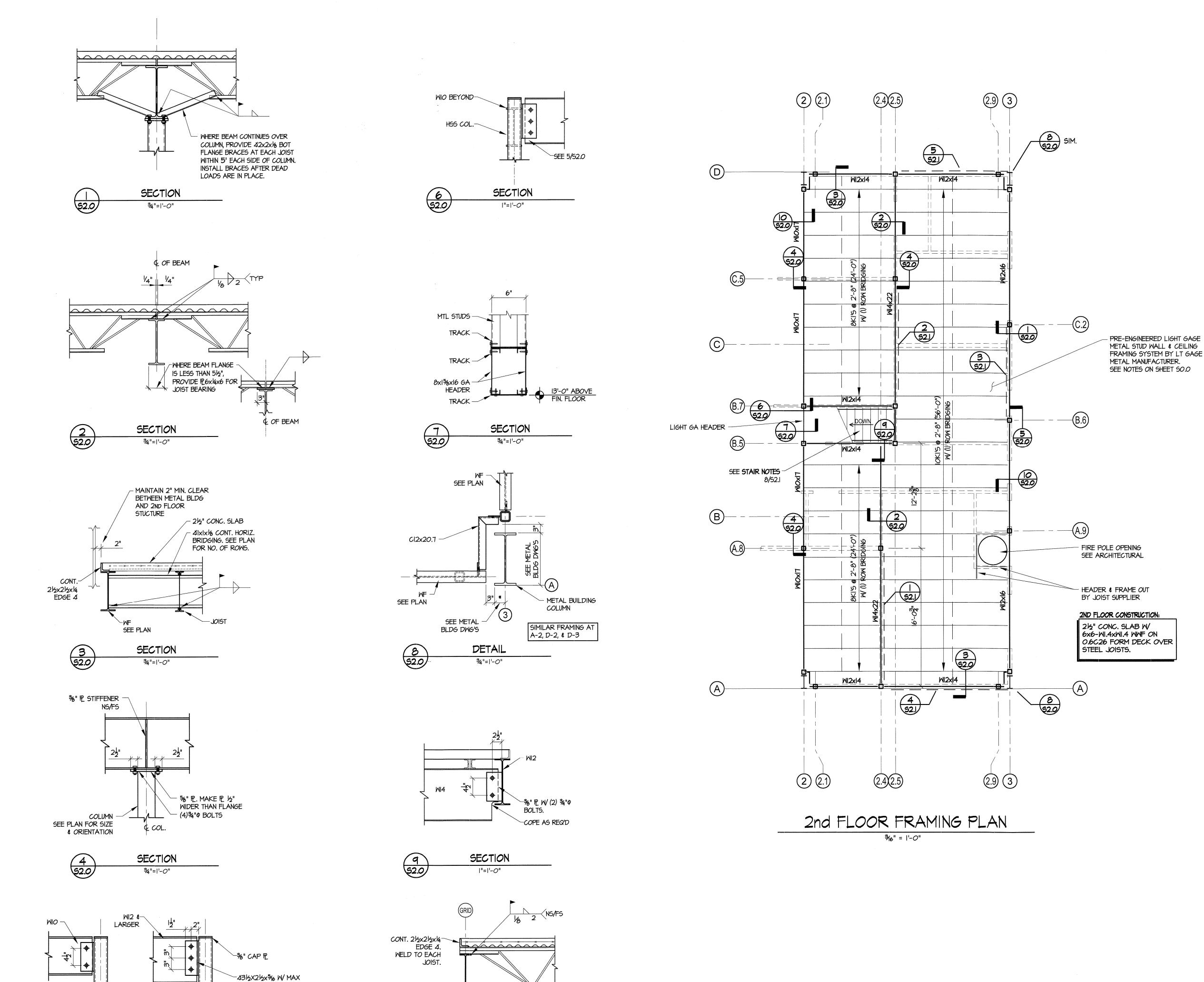




SHEET NO. **S2.0**

PROJECT NO. **16-09** DATE 10/28/16





-WF SEE PLAN

52.0

DETAIL

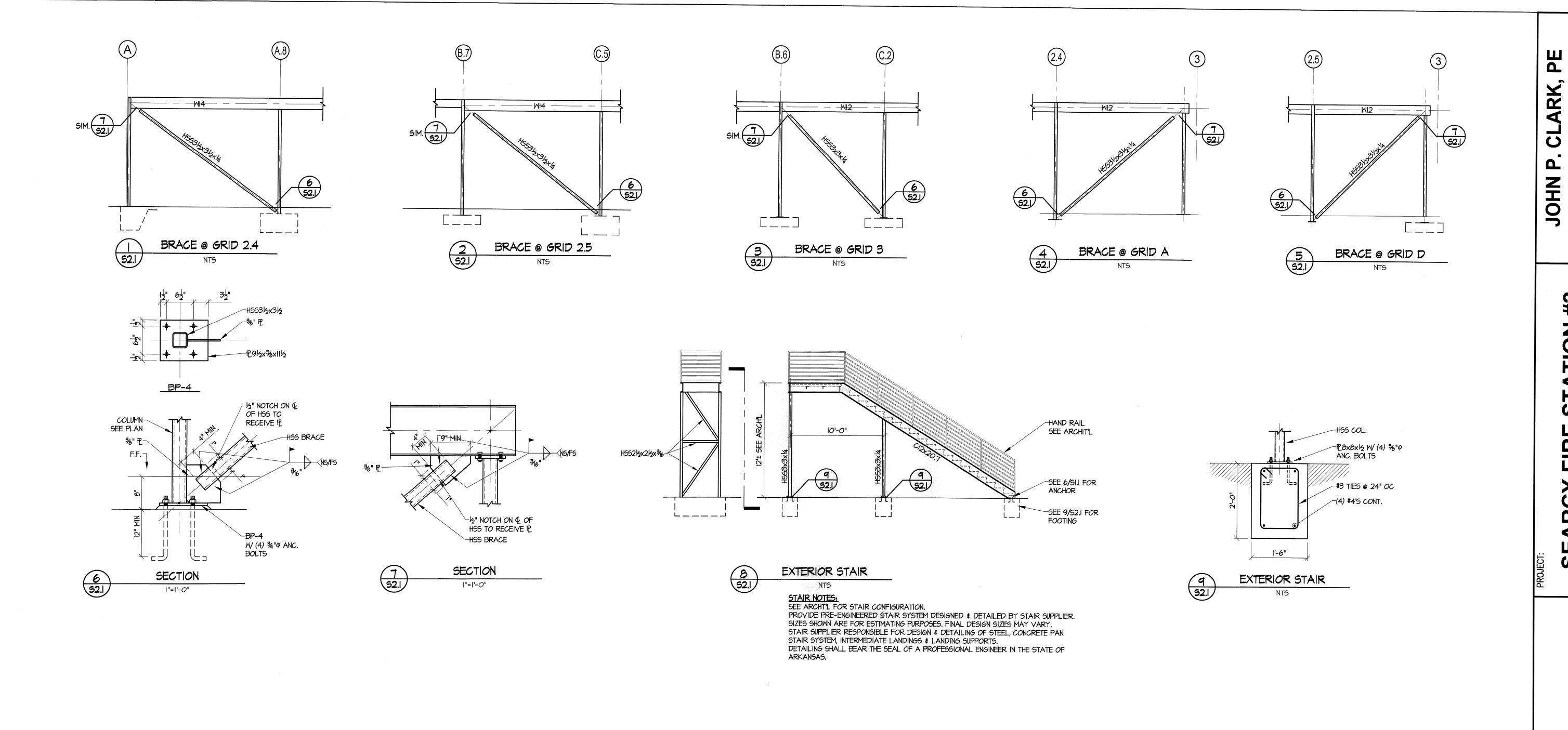
NO. ¾"\$ BOLTS.

4 AS REQ'D.

SECTION

|"=|'-0"

TRIM SHORT LEG OF



DETAIL

JOHN P.

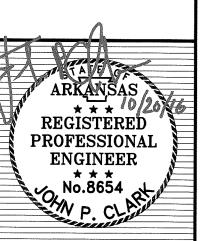
FIRE STATION #2

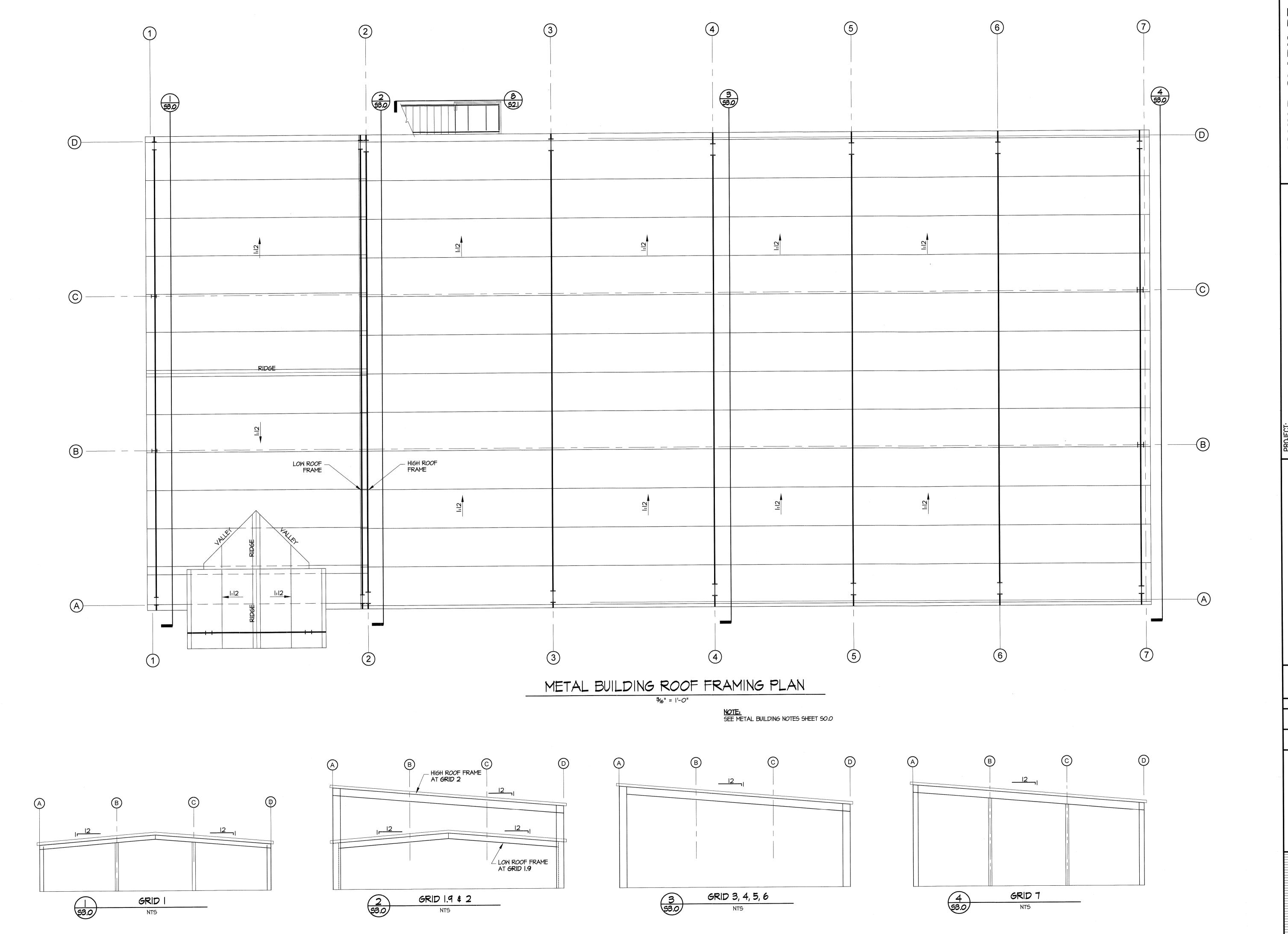
SEARCY

GOLF COURSE DRIVE SEARCY, ARKANSAS

SHEET NO.

PROJECT NO. 16-09 DATE 10/28/16





JOHN P. CLARK, PE

SEARCY FIRE STATION #2

GOLF COURSE DRIVE SEARCY, ARKANSAS

METAL BUILDING ROOF FRAMING PLAN

PROJECT NO. **16-09**

DATE 10/28/16

ARKANSAS

REGISTERED

PROFESSIONAL

ENGINEER

No.8654

	MECHANICAL ABBR	EVIAT	2. REFER	TO EQUIPMENT SCH	MAY NOT BE APPLICABLE TO THE PROJECT. EDULES FOR EQUIPMENT DESIGNATIONS. DDITIONAL ABBREVIATIONS THAT MAY APPLY.
	A		G G	IU SIMBULS FOR A	R
ABV A/C ACCU ADJ AFC AFF AFG AFUE	ABOVE AIR CONDITIONER, AIR CONDITIONING AIR COOLED CHILLER AIR COOLED CONDENSING UNIT ADJUSTABLE ABOVE FINISHED CEILING ABOVE FINISHED FLOOR ABOVE FINISHED GRADE ANNUAL FUEL UTILIZATION EFFICIENCY	GRND GA GAL GALV GC GFI, GFIC GPD GPH GPM	GROUND GAUGE GALLON GALVANIZED GENERAL CONTRACTOR GROUND FAULT INTERRUPTER GALLONS PER DAY GALLONS PER HOUR GALLONS PER MINUTE	RA RCP RD RE: RECIRC REINF REQD REV RH	RETURN AIR REFLECTED CEILING PLAN ROOF DRAIN REFERENCE, REFER TO RECIRCULATE REINFORCING, REINFORCED REQUIRED REVISION, REVISE RELATIVE HUMIDITY, RIGHT—HAND
AHU ALUM AMB AMP ANSI APD ARCH ARI ASHRAE	AIR HANDLING UNIT ALUMINUM AMBIENT AMPERES AMERICAN NAT'L STANDARDS INSTITUTE AIR PRESSURE DROP (INCHES WC) ARCHITECT, ARCHITECTURAL AIR CONDITIONING & REFRIG INSTITUTE AMERICAN SOCIETY OF HEATING, REF. & AC ENGINEERS	HD HGBP HGRH HID HOA HORIZ	GREASE WASTE HEAD, HUB DRAIN, HEAVY DUTY HOT GAS BYPASS HOT GAS REHEAT HIGH INTENSITY DISCHARGE HAND-OFF-AUTOMATIC HORIZONTAL	RHG RL RLA RM RPM RS	REFRIGERANT LIQUID RUNNING LOAD AMPS ROOM REVOLUTIONS PER MINUTE REFRIGERANT SUCTION S SUPPLY AIR
ASME ASTM AUX AWG AWS AWW ASSY	AMERICAN SOCIETY OF MECH ENGRS AMERICAN SOCIETY OF TESTING & MATLS AUXILIARY AMERICAN WIRE GAUGE AMERICAN WELDING SOCIETY AMERICAN WATER WORKS ASSOC. ASSEMBLY	HP HSPF HSTAT HT HTG HTR HVAC HW HYD	HORSEPOWER HEATING SEASON PERFORMANCE FACTOR HUMIDISTAT HEIGHT HEATING HEATER HEATING, VENTILATING & A/C HOT WATER HYDRANT	SD SECT SENS SF SGL SHT SM SMACNA SOV	SMOKE DAMPER, STORM DRAIN, SUPPLY DIFFUSER SECTION SENSIBLE SQUARE FEET, SQUARE FOOT SINGLE SHEET SHEET METAL SHEET METAL & A/C CONT NAT'L ASSOC. SHUT-OFF VALVE
BKR BLDG BOD	BUILDING AUTOMATION SYSTEM BACKDRAFT DAMPER BOILER FEED WATER BREAKER BUILDING BOTTOM OF DUCT BOTTOM OF PIPE BOTTOM OF STRUCTURE BRITISH THERMAL UNIT	ID IDB IE IN IN WC	INSIDE DIAMETER INDOOR DRY BULB INVERT ELEVATION INCH, INCHES INCHES OF WATER COLUMN	SP SPEC SQ SS ST STD STL SURF SUSP	STATIC PRESSURE SPECIFICATION, SPECIFY SQUARE STAINLESS STEEL, SANITARY SEWER SOUND TRAP, STEAM TRAP STANDARD STEEL SURFACE SUSPEND, SUSPENDED
CAP CATV CCTV CC CFH CFM CFS	CAPACITY CABLE TELEVISION SYSTEM CLOSED CIRCUIT TELEVISION CONCRETE CUBIC FEET PER HOUR CUBIC FEET PER MINUTE CUBIC FEET PER SECOND	J-BOX KVA KW KWH	JUNCTION BOX KILOVOLT-AMPS KILOWATTS KILOWATT-HOUR	TDH TE THRU TOT TP TSP TSTAT	TOTAL DYNAMIC HEAD TENANT EXHAUST (TOILET) THROUGH TOTAL TOTAL PRESSURE TOTAL STATIC PRESSURE THERMOSTAT
CHR CHW CIRC CKT Q CLG CMU CO CONN COTG	CHILLED WATER RETURN CHILLED WATER SUPPLY CIRCULATING CIRCUIT CENTERLINE CEILING CONCRETE MASONRY UNIT CLEANOUT CONNECT, CONNECTION CLEANOUT TO GRADE	LAT LBS, # LDB LF LP LRA LTG	LENGTH LEAVING AIR TEMPERATURE POUNDS LEAVING DRY BULB LINEAR FEET LOW PRESSURE, LIQUID PETROLEUM LOCKED ROTOR AMPS LIGHTING	UC U/F U/S	TOWER WATER RETURN TOWER WATER SUPPLY TYPICAL UNDERCUT UNDERFLOOR UNDERGROUND UNDERSLAB
COL CPVC CRD CU *C CV CWR CWS	COLUMN CHLORINATED POLYVINYL CHLORIDE CEILING RADIATION DAMPER COPPER DEGREES CELSIUS CONSTANT VOLUME CONDENSER WATER RETURN CONDENSER WATER SUPPLY	LWB LWT MAX MBTU, MBH MC MCA	LEAVING WET BULB LEAVING WATER TEMPERATURE MAXIMUM 1000 BTU PER HOUR MECHANICAL CONTRACTOR MINIMUM CIRCUIT AMPACITY	UL UNO UPS - VA VAC	UNDERWRITERS LABORATORIES, INC. UNLESS NOTED OTHERWISE UNINTERRUPTABLE POWER SUPPLY VOLT, VENT, VERTICAL VOLT—AMPERE VACUUM
dB DEF	DEEP, DEPTH DRY BULB DOUBLE DECIBEL DEFLECTION	MCB MCC MD MECH MFR MOCP MH MIN	MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER MOTORIZED DAMPER MECHANICAL MANUFACTURER MAXIMUM OVER CURRENT PROTECTION MANHOLE, METAL HALIDE MINIMUM	VAC VAV VD VEL VERT VTR	VARIABLE AIR VOLUME VOLUME DAMPER VELOCITY VERTICAL VENT THROUGH ROOF
DEG DESIG DDC DIA, Ø DIM DISC DN DPDT	DEGREES DESIGNATED, DESIGNATION DIRECT DIGITAL CONTROL DIAMETER DIMENSION DISCONNECT DOWN DOUBLE—POLE, DOUBLE—THROW DOUBLE—POLE, SINGLE—THROW	N/A NC NEC NEMA NFPA	NOT APPLICABLE NOISE CRITERIA, NORMALLY CLOSED NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MFR'S ASSOC. NATIONAL FIRE PROTECTION ASSOC.	W/ W/O WB WC WPD WT WWF	WATT, WIDTH WITH WITHOUT WET BULB WATER COLUMN WATER PRESSURE DROP WATERTIGHT, WEIGHT WELDED WIRE FABRIC
DS DWG DWV DX EA EAT	DOWNSPOUT, DISCONNECT SWITCH DRAWING DRAIN, WASTE, AND VENT DIRECT EXPANSION E EXHAUST AIR, EACH ENTERING AIR TEMPERATURE	NIC NO NPSH NTS	NOT IN CONTRACT NORMALLY OPEN NET POSITIVE SUCTION HEAD NOT TO SCALE	XFRMR 12x12 12/12 12/12 12ø	TRANSFORMER OTHER RECTANGULAR DUCT SIZE OVAL DUCT SIZE ROUND DUCT SIZE
EC ECC EDB ELEV ELEC ENCL EQP, EQUIP ESP EWB EWC EWT	ELECTRICAL CONTRACTOR ECCENTRIC ENTERING DRY BULB ELEVATION ELECTRICAL ENCLOSURE EQUIPMENT EXTERNAL STATIC PRESSURE ENTERING WET BULB ELECTRICAL WATER COOLER ENTERING WATER TEMPERATURE	OA OBD OC OD ODB OH OPNG OS&Y OSHA OF/CI	OUTSIDE AIR (VENTILATION AIR) OPPOSED BLADE DAMPER ON CENTER OUTSIDE DIAMETER OUTDOOR DRY BULB OVERHEAD OPENING OUTSIDE STEM AND YOKE OCCUPATIONAL SAFETY & HEALTH ADMIN. OWNER FURNISHED/CONTRACTOR INSTALLED		
EXIST EXT FA FACP	EXHAUST EXISTING EXTRUDED FIRE ALARM FIRE ALARM CONTROL PANEL	PD PF PH PIV PLBG	PRESSURE DROP POWER FACTOR PHASE POST INDICATOR VALVE PLUMBING		
FL FLA FLEX FLR FPI FPM FT	FLOOR CLEANOUT FLOW LINE FULL LOAD AMPS FLEXIBLE FLOOR FINS PER INCH FEET PER MINUTE FOOT, FEET	PNL PSF PSI PSIA PSIG PRV PVC	PANEL POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH ABSOLUTE POUNDS PER SQUARE INCH GAUGE PRESSURE RELIEF VALVE POLYVINYL CHLORIDE		
° F	DEGREES FAHRENHEIT	QTY	QUANTITY		

	(NOT ALL MAY APPLY)
<u> </u>	THERMOSTAT
<u> </u>	TEMPERATURE SENSOR
М	DAMPER MOTOR
	CARBON MONOXIDE SENSOR
<u> </u>	DUCT SMOKE DETECTOR
	RECT. MANUAL BALANCING DAMPER
	BAROMETRIC DAMPER
	FIRE DAMPER
	SMOKE DAMPER
>	COMBINATION FIRE/SMOKE DAMPER
MARK THROW CFM	SUPPLY AIR DIFFUSER — # INDICATES NUMBER OF SAME AIR DEVICES
MARK CFM	RETURN OR TRANSFER AIR GRILLE — # INDICATES NUMBER OF SAME AIR DEVICES
# MARK CFM	EXHAUST AIR GRILLE — # INDICATES NUMBER OF SAME AIR DEVICES
	TURNING VANES
	INTERNALLY LINED DUCT
OR OR	SQUARE-ROUND TRANSITION
8////3	DOUBLE WALL SPIRAL DUCT
	NEW EQUIPMENT
	EXISTING EQUIPMENT
TQ .	45 DEG BRANCH TAKE-OFF WITH 2" RAISED QUADRANT DAMPER
K	45 DEG BRANCH TAKE-OFF WITHOUT DAMPER
	MANUAL DAMPER WITH 2" RAISED QUADRANT LEVER
UC	UNDERCUT DOOR MIN. 3/4" FOR TRANSFER AIR
EL. 100'	ELEVATION
•	POINT OF CONNECTION TO EXISTING
	FLEXIBLE DUCT CONNECTION
	FLEXIBLE BRANCH DUCT (3' MAX.)
——— R ———	REFRIGERANT LINE SET (SUCTION AND LIQUID LINES)
—— C ——	CONDENSATE LINE

PLUMBING L	EGEND (NOT ALL MAY APPLY)
	COLD WATER
	HOT WATER
	HOT WATER RECIRCULATION
	SANITARY SEWER
	DRAIN/WASTE VENT
	DRAIN/WASTE VENT
O FCO	FLOOR CLEANOUT
ı wco	WALL CLEANOUT
О сотс	CLEANOUT TO GRADE
O O 2-WAY COTG	2-WAY CLEANOUT TO GRADE
1 1	UNION
CH OR HCH OR OH	VERTICAL ELBOW, SGL DN, DBL RUNNING, & SGL UP
} ≎ OR } O 	VERTICAL TEE, DN AND UP
<u> </u>	VERTICAL TEE, DOUBLE
	HORIZONTAL CROSS, VERTICAL LEG UP AND DN
STOR STOR STOR	ELL, TEE, AND CROSS
іфі	BALL VALVE
\overline{A}	GATE VALVE
N	CHECK VALVE
区	ASME T&P VALVE
烃	BOILER DRAIN OR HOSE COCK
ı√ı	PLUG VALVE
<u>₹</u>	VERTICAL VALVE





PH: 501.235.3270 FAX: 501.235.3272 WWW.NES-ENG.COM

A PROJECT FOR:

Searcy, Arkansas

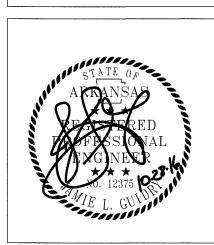
Toffmann
Very Spring Street

Toffmann

Logarda Inc

Solution Street

Solut



C COPYRIGHT 2016

HOFFMANN ARCHITECTURAL INC.

THIS DOCUMENT IS ISSUED AS AN INSTRUMENT OF SERVICE AND IS FOR THE PRODUCTION OF A SINGLE FACILITY AS NOTED IN THE SHEET TITLE. OWNERSHIP OF THIS DOCUMENT IS RETAINED BY HOFFMANN ARCHITECTURAL INC.. UNAUTHORIZED REPRODUCTION IS PROTECTED BY THE COPYRIGHT LAWS OF THE UNITED STATES AND IS HEREWITH PROHIBITED.

DATE: **10/28/16**

REVISIONS:

CONTRACTOR MUST CHECK
AND VERIFY ALL DIMENSIONS
AND CONDITIONS ON SITE
PRIOR TO ORDERING
MATERIALS OR CONSTRUCTION.

DRAWN BY:

JLG

MECHANICAL
ABBREVIATIONS AND
LEGEND

EGEND

SHEET: MP0.1

SECTION 01 - GENERAL

1.01 CONTRACT DOCUMENTS AND GENERAL REQUIREMENTS

- A. Refer to and comply with all other sections of the project specifications and project plans for the installation of all mechanical work.
- B. These plans are diagrammatic in nature and are intended to establish size, general routing and location, and performance and are not intended to show all possible conditions. All work shall be fully coordinated with other trades to insure the installation of a complete, operating system that fits in the space allotted. Provide all labor, equipment, appurtenances and materials necessary, and perform all operations required for the installation of complete, functional mechanical systems as outlined on the drawings and described in the specifications.
- C. Because this project is a new installation of several trades, unknown circumstances and interferences may occur. The Contractor shall visit the site prior to any bid submission to familiarize himself with the existing site conditions. The contractor shall coordinate with all other trades and make adjustments in routing and location and, if necessary, in size, in order to achieve the specified performance without incurring additions to the contract. Where actual field conditions differ significantly enough from design to affect pricing, the contractor shall notify the building Owner's Representative prior to bid submission for a resolution. No allowance will be made for lack of knowledge of field conditions.
- D. Equipment scheduled or specified on drawings with "equal to", "reference product", or similar designations establish the minimum acceptable quality of equipment required for the project. If alternate manufacturer(s) or model(s) are proposed, they will, as a minimum, have the same availability, features, options, safety devices, capacities, quality of construction, serviceability, and characteristics as those of the scheduled or specified equipment. If a list of "acceptable" or "alternate" manufacturers are listed, only products from those manufacturers, in addition to the "equal to" or "reference product" manufacturer will be considered for approval.
- E. Refer to architectural floor plans and reflected ceiling plans to coordinate mechanical equipment with layout of walls and partitions and locations of all ceiling mounted devices. For any items not shown on the reflected ceiling plans, prepare drawings of the proposed locations and present to the Owner's Representative for approval prior to installation.
- F. All materials and equipment shall be new except those existing items indicated to be re—used. Any equipment or devices to be re—used shall be thoroughly cleaned and serviced to good working condition. All new equipment shall bear the label of the appropriate testing agency (UL, ETL, FM, CSA, AGA, ASTM, AMCA, PDI, CISPI, etc.). Provide one (1) year parts and labor warranty on all new equipment, systems and components, including workmanship.
- G. Provide start—up of all equipment provided under this contract. Start—up will adhere to manufacturer's requirements and recommendations.
- H. See notes on drawings for additional information, requirements, and restrictions regarding the mechanical work for this project.
- I. The contractor shall maintain a clean set of mechanical "as—built" record drawings separate from the field construction set. All changes to the original mechanical design shall be noted in the as—built record drawings in a neat, clean and orderly manner, and in colored ink or pencil. At project completion these drawings shall be submitted to the Architect/Engineer for approval prior to submission to the owner.

1.02 CODES, ORDINANCES, INSPECTIONS AND PERMITS

- A. All work, materials, methods and equipment furnished and installed for this project is to comply with, be executed, and be inspected in accordance with local and state codes, laws, ordinances, rules and regulations applicable to particular class of work. Any fees or costs in connection therewith are to be paid by the contractor.
- B. The contractor shall be responsible for coordination with all respective local utilities to ensure complete and operative systems. All service fees, connection fees, meter fees, etc. required by the local utility shall be paid by the contractor. All utility fees shall be determined prior to bid and included in the contractor's price as part of a turn-key job to the owner.
- C. Arrange with Authority Having Jurisdiction (AHJ) for complete inspection, paying all charges and fees pertaining thereto.
- D. Any insulation thickness listed in this specification or shown on the drawings is the minimum acceptable thickness, but is not to be used in lieu of minimum thickness required by locally adopted energy codes. Where a thickness shown on plans or in specifications differs from those required by code, the greater of the two thickness dimensions will be used.
- E. All motors will comply with the local energy code.

1.03 SHOP DRAWINGS, SUBMITTALS AND SUBSTITUTIONS

- A. Where equipment schedules list acceptable alternate manufacturers, only products from those manufacturers listed that equal the reference product's capacity, features, options, electrical characteristics, warranties, quality, etc. will be considered.
- B. Submit a minimum of six (6) printed "hard" copies of manufacturer's catalog sheets and/or shop drawings covering all equipment and devices included in this contract. Indicate models, capacities, weights (shipping, installed, operating), finishes, furnished specialties, options, wiring diagrams, control diagrams and sequences, and accessories. Arrange submittals in sets and bind in folders. Information shall not be submitted piecemeal.
- C. At the Contractor's option, submittals and shop drawings may be submitted electronically in PDF format. In all cases, both Plumbing and HVAC submittals and shop drawings shall be provided concurrently as a single package.
- D. Piecemeal submission in "hard" copy or electronic copy of individual product/system information, unless specifically requested by the Architect and/or Engineer, will be summarily rejected.
- E. Submittals are required even though equipment being furnished is exactly as specified.
- F. Final decision as to whether or not a specific piece of equipment meets specifications will rest with Architect/Engineer.

1.04 GENERAL EQUIPMENT AND MATERIAL INSTALLATION

- A. Mechanical equipment shall be as indicated in the equipment schedule or approved equivalent, and installed per the manufacturer's recommendations. Coordinate with Division 16, Electrical, before ordering equipment requiring electrical connections; coordinate quantity, size, and type of connection(s) and overcurrent protection; and disconnect(s), and starter(s) requirements. Do not mount disconnect switches over unit nameplates. All electrical work shall be done in conformance with these specifications, Division 16 specifications, the National Electric Code, and local codes. Where conflicting requirements may occur, the more stringent shall govern.
- B. Support all ductwork, piping and equipment from structure. Do not support from other ductwork, piping, conduit, etc. Support all ductwork with hangers and supports per SMACNA. Support all piping with hangers, supports, anchors and guides per ANSI Code for pressure piping, ANS B31.1 with addenda 31.1 OA—69. Sizing and spacing of hangers shall be per these standards, unless otherwise noted. "C" clamps shall not be used unless tack welded or strapped to structural steel members.
- C. Insulation shall be continuous at all wall and floor penetrations (except at fire dampers) and at hanger supports. Hanger supports for insulated piping shall be outside insulation; provide insulated inserts and sleeves at hangers. Insulation vapor barrier shall be sealed at all joints and seams, and at penetrations by appurtenances (damper rods, valve stems, etc.). Repair insulation at existing ductwork which has been reworked. Tears and punctures of vapor barrier shall be repaired and sealed. All piping and ductwork pressure testing shall be performed before insulation is applied.
- D. Provide sleeves, clamps for piping at all wall and floor penetrations, and fire proofing at all rated wall and floor penetrations. Provide escutcheon plates at all visible wall and ceiling penetrations. Sleeves through concrete floors, concrete or CMU walls and concrete foundations shall be schedule 40 galvanized steel pipe. Sleeves through non-cementious cavity wall construction shall be minimum 20 gauge galvanized sheet steel with welded longitudinal joint. Sleeves in rated construction shall be provided in accordance with the listing of the particular U.L. design being utilized for the protection of the through-penetration. Sleeves through exterior walls, slabs on grade or foundations shall be sealed weathertight using an engineered sleeve seal equal to Metraseal. Provide riser clamps on all floor-floor pipe risers.
- E. Locate new equipment away from walls to structure and rated walls as necessary to provide required clearances for proper operation, maintenance and inspection.
- F. Install all new ductwork as high as possible, tight to structure above. Transition ductwork flat on top to maintain maximum bottom of duct elevation. Install all piping above ceiling as high as possible, with sloped piping as high as slope will allow. Raise any existing ductwork and piping as required to avoid conflict with new ceiling features and new light fixtures, field verify height of existing mechanical work.
- G. Flexible duct runouts to diffusers shall be sized to match the device neck, unless otherwise noted. Maximum low pressure flex. duct length is 3 ft. Do not install flex duct through walls to structure, install only hard round steel ductwork through non—rated walls to structure (provide FD's at rated wall penetrations). Flexible duct runouts to diffusers shall be adequately supported and installed free of kinks and saas.
- H. Locate diffusers and return air grilles as close as possible to positions indicated on drawings and as required to avoid conflict with new light fixtures and other ceiling mounted devices. Adjust length of duct connection to diffusers to the minimum length required to provide smooth, long radius bend connections, free of kinks and sags, and without unnecessary length or bends. Reduce length of connection by removing excess flex duct and reconnecting. Extend connections by adding necessary length of insulated, hard round steel duct at trunk duct tap and reconnecting existing flex duct to end.
- I. All 2X2 lay—in diffusers shall have 4—way adjustable throw, unless noted otherwise. Adjust all diffusers in corridors or within 3 feet of a wall to provide 2—way or 3—way blow away from or parallel to walls.
- J. Portions of ductwork visible through air distribution devices in finished areas shall be painted flat black.
- K. Provide access panels in non-accessible ceilings and in walls to structure to allow adequate room for maintenance of equipment and balancing of system. Access panels shall maintain the fire rating of the wall or ceiling where required. See Architectural drawings.
- L. Condensate drain lines shall be sized to match unit connection size (3/4" minimum) and as noted on plans, shall be trapped at the unit with a minimum 2" deep water seal, and shall be routed with a minimum slope of 1/8" per foot. Drain lines shall be terminated turned down above hub drains or floor drains on building interior; at roof drains, splash blocks or dry wells/French drains on building exterior; interior drains may be routed down in walls and below counters and terminated at the tailpiece of any sink or layatory, should

- such connection be available (coordinate with Plumbing). At the Contractor's option, or where minimum slope cannot be maintained from the coil to the termination point, condensate drain pumps may be provided. Discharge from pump immediately to a high point and slope down to drain termination point. The Contractor shall be responsible for coordinating all requirements for drain pump installation (electrical connections, drain termination, code compliance for ceiling plenum installations, etc.)
- M. Equipment mounted above ceiling shall be suspended from structure above with all—thread hanger rods, sized per equipment weight requirements. Provide combination spring/neoprene vibration isolators for equipment with moving parts (fans, compressors, etc.). Equipment supports (angles, channels, etc.) shall extend sufficiently past footprint of equipment to allow for installation of vibration isolators above supports and within equipment height. Locate equipment to provide adequate room from structure, walls above ceiling, and ceiling features to allow for maintenance of equipment and balancing of system. Provide auxiliary drain pan beneath entire unit for water storing equipment (water heaters) and equipment with cooling coils.
- N. Flash all roof and exterior wall penetrations and seal water-tight. Provide wall sleeves for all wall penetrations..
- O. Route equipment and piping system auxiliary drains to discharge locations approved by the AHJ. Where drain termination is not specifically noted on the plans, the Engineer shall be notified for direction.
- P. All piping below handicap accessible sinks shall be insulated and installed as high as possible and as far back as possible to provide maximum wheelchair access, per ADA requirements.
- Q. All waste and vent (DWV) piping 3" and above shall be sloped at 1/8" per foot minimum, piping 2-1/2" and smaller shall be sloped at 1/4" per foot minimum. Provide cleanouts at all changes in directions. Provide additional cleanouts in all DWV piping at maximum 75 ft. intervals for 4" piping and above, and at maximum 50 ft. intervals for 3" piping and smaller.
- R. All equipment suspended from roof structure shall be mounted on structural steel supports frames (channels or angles) bolted to supports and to equipment at each equipment support point (min. two points each on a min. of two frame members). Support frames shall be suspended by bolted all—thread rods from like sized frame members welded or positively bolted to a minimum of two roof frame members above. Support framing system shall be sized to support 200 percent of the total distributed equipment weight, frame members and all—thread rods shall be sized to support 200 percent of their respective point load weights.
- S. Provide pipe supports at all piping changes in direction and at maximum center distances per ANSI Code for pressure piping, with sizing and spacing of hangers per these standards, unless otherwise noted. Mount piping on hangers within 12" of roof support structure above or provide seismic bracing for longer hanger lengths. Support grouped piping on trapeze type channel supports with two hanger rods, anchored to structure above; or rack type channels, supported from floor or grade below with two pipe stands and floor plates bolted to floor; clamp piping to supports. Support individual pipes from above with clevis, adjustable "J", or adjustable band type hangers with hanger rods anchored to structure above; or from wall with wall bracket. Provide riser clamps at floor penetrations and wall support brackets at vertical piping. Vertical risers shall be racked on walls, resiliently mounted to walls with "Unistrut" wall brackets and "Unisorb" clamping, or equivalent. Hanger rods shall be anchored to structure above with concrete anchors, beam clamps, or "C" clamps tack welded or strapped to steel structure. Hangers shall not support insulated piping directly from pipe and shall not crush the insulation system. Hangers shall be mounted outside the insulation with Foam—Glas inserts at all support points. Provide 18 ga. sheet metal saddles at all insulated piping hangers, saddles shall have width equal to 1/2 the pipe circumference and length equal to 4 times the insulation outer diameter. Galvanized pipe support hangers or other metals susceptible to galvanic corrosion are prohibited.

1.05 WARRANTY AND OPERATION INSTRUCTIONS

- A. All materials, equipment, and work will carry, as a minimum, a full one (1) year warranty from time Owner accepts building or the date of substantial completion, whichever is earlier, regardless of start—up date of equipment.
- B. A minimum of two (2) bound copies of operation and maintenance manuals for the entire mechanical system including controls) will be prepared by the Contractor and provided to the Owner. The Owner will be fully instructed in the operation and maintenance of the entire system by the Contractor.

1.06 EQUIPMENT CONNECTIONS

- A. Each equipment item with drain connection will be provided with a properly sized drain run to the nearest floor drain or as directed.

 Minimum drain size will be equal to connection size or as indicated.
- B. Rough—in and make final connection to all equipment provided under other Divisions of these specifications or by the Owner.
- C. Contractor will install rough—ins only after he has received approved shop drawings or has obtained drawings and/or specifications for equipment provided by others.

1.07 FLASHINGS

A. Roof flashings are to be furnished and installed under the roofing division of these specifications.

1.08 CUTTING AND PATCHING

- A. Provide all cutting and patching required to perform the mechanical work.
- B. All cutting, patching and repair work will be done by workmen skilled in the trade required
- C. The contractor shall be responsible for a neat and clean cutting and patching operation. Where cutting of openings are excessive in size or openings in walls, ceilings, or floors are not trimmed, cut, sawcut, coredrilled, etc. in a neat and clean manner, the Contractor shall be responsible for making repairs as directed by the Architect at no additional cost to the owner.

1.09 EXCAVATION, TRENCHING AND BACKFILLING

- A. All excavation, trenching and backfilling in connection with the mechanical system is included as part of this Division.
- B. All excavation, trenching and backfilling required will be done as part of the contract price regardless of any implied conditions on the drawings or in these specifications.
- C. Have all underground utilities located and marked before excavating. Instruct employees on markings and color codes and train employees on excavation and safety procedures for natural gas lines. When excavation approaches gas lines, expose lines by carefully probing and hand digging.
- D. Walls of trenches shall be minimum 6" from side of nearest mechanical work. Install pipes with minimum 6" clearance between when located in same trench.
- E. Pipe Trenching: Dig trenches to depth, width, configuration, and grade appropriate to piping being installed. Dig trenches to 6" below level of bottom of pipe to be installed. Install 6" bed of pea gravel or fine granular material, mechanically tamp to firm bed for piping, true to line and grade. Provide depressions only at hubs, couplings, flanges, or other normal pipe protrusions.
- F. Do not backfill until work has been inspected, tested, approved. Do not bury lumber, metal, or other debris with backfill.
- G. Trench Backfill: Backfill to 12" above top of piping with pea gravel or fine granular material. Compact properly and install marker warning tape. Continue backfill to finish grade in 6" layers, each properly moistened and mechanically compacted. Do not compact by hydraulic jetting. Settling shall be refilled, tamped and refinished.

1.10 SUPPORTS AND FOUNDATIONS

- A. The Contractor will be responsible for the miscellaneous supporting systems.
- B. Provide adequate pipe, equipment foundation and suspension systems in accordance with recognized engineering practices.
- C. Pipe hangers will be equal to those manufactured by Grinnell.
- D. Maximum allowable piping support intervals (unless reduced by local code):
- a. Vertical piping 15 ft. on center
- b. Horizontal ferrous piping through 1" diameter 6 ft. on center
 c. Horizontal ferrous piping 1-1/4" through 2" diameter 10 ft. on center
- d. Horizontal ferrous piping over 2" diameter 12 ft. on center
 e. Horizontal cast iron support twice in each section of pipe, minimum.
- f. Plastic, PVC and CPVC piping support at half the distance as ferrous pipe.

1.11 ELECTRICAL

- A. Furnish and install all electrical interlock and control wiring for proper operation and control of all mechanical equipment.
- B. Supervise and coordinate all electrical work in connection with mechanical system.
- C. Furnish all motor controllers or contactors for proper operation of all motors.
- D. Furnish equipment with factory supplied starters and disconnects where available.

1.12 VALVES

- A. Gate Valves: Nibco Scott T-113 or F-619.
- B. Globe Valves: Nibco Scott T-211 or F-718 (S) or (W).
- C. Check Valves: Nibco Scott T-413 or F-918 (S) or (W).
- D. Gas Cock (1" and below): Crane No. 270.

- E. Gas Cock (1-1/4" and above); Rockwell No. 114 or No. 116.
- F. All valve construction shall not contain "vellow brass".

1.13 TESTING - PLUMBING

- A. Test all piping systems. Test buried pipe before backfilling.
- B. Water piping shall be hydrostatically tested at 100 psi for not less than eight hours with no discernible pressure loss.
- C. All gas piping shall be tested at twice the operating pressure or 150 psi, whichever is greater, with dry compressed air or nitrogen for a continuous period of not less than eight hours with no discernible pressure loss.
- D. Storm, waste and vent systems shall be tested to a minimum hydrostatic head of ten feet, and this pressure shall be maintained a minimum of three hours and proved tight.

1.14 TESTING. ADJUSTING. AND BALANCING — HVAC

- A. Start—up for all mechanical equipment shall be provided under this contract in strict accordance with the equipment manufacturer's start—up instructions. Where factory start—up is required, the manufacturer shall provided certified factory personnel. Factory start—up shall also require manufacturer's documentation of successful start—up to be included in the project closeout documentation.
- B. Operate all HVAC equipment for a sufficient period of time to demonstrate that it is operating properly. Contractor will be required to make adjustments as necessary during the first year.
- C. HVAC testing, adjusting, and balancing shall be performed by an NEBB certified agency. All mechanical components and air distribution systems will be tested and balanced by to provide flow rates as indicated on the drawings. All testing and balancing services (including those of independent test and balance contractors) will be done as part of the contract price. Provide a minimum of 5 original bound copies of a complete, typewritten test and balance reports for review upon project completion. Test and balance all equipment and air distribution devices to capacities indicated. Adjust drives as required. Report condition and operation of all controls and controlled devices.
- D. Test all equipment controls for proper response to all applicable operation sequences: cooling, heating, economizer, and ventilation/exhaust cycles; normal, after hours, night setback, morning warm—up/cool down, and emergency modes.
- E. Balance all system components to within -5% or +10% of design quantities indicated. Measure and record entering, leaving, and operating characteristics at all equipment for comparison with design capacities scheduled. Measurements/recordings may include, but are not limited to, the following: entering and leaving temperatures, pressures, velocities, and flow rates for all fluids (air, water, refrigerant, etc.); all electrical operating characteristics (voltage, amps, watts); unit model numbers, component sizes, and operating speeds (both motor and driven equipment rpm's).
- F. Where initial measurements indicate equipment to be operating at conditions significantly different from scheduled capacities (greater than -5% or +10%), measure all entering, leaving, and operating conditions for diagnostic purposes; note any discrepancies between design requirements and installed conditions; and report same to the architect/engineer in writing as soon as possible.

1.15 MECHANICAL IDENTIFICATION

- A. All piping, valves, and equipment will be appropriately identified with permanent markings. Markings and colors will comply with local requirements, and will indicate: equipment tag number; fluid (and pressures, where applicable) contained in pipe; direction of flow, etc.
- B. Provide engraved plastic laminate equipment tags on all new and existing mechanical equipment. Nomenclature shall be proposed by HVAC contractor and approved by owner prior to fabrication.
- C. Provide for each new and existing device controlling mechanical equipment (thermostat, sensor, switch, timer, etc.) a permanent label (metal, bakelite, plastic, or equivalent) with the controlled equipment name/tag/mark permanently embossed into the label. Mount label permanently affixed to device cover (or on inside of hinged covers) and located so as not to block device operation or instructions.

1.16 STORAGE, CLEANUP, AND DEBRIS REMOVAL

A. Coordinate storage of all equipment and materials with the owner's representative and general contractor. Continually maintain the construction site to keep areas clear of materials and debris. Additionally, provide cleanup and removal at the end of each daily work period.

*** END OF SECTION 01 SPECIFICATIONS ***

SECTION 22 - PLUMBING

22.01 FIXTURES AND TRIM

- A. Fixtures will be equal to those scheduled on drawings, with all necessary support, trim and accessories required for a neat, clean, complete and operative installation provided under this contract.
- B. All exposed finished metal parts will be chromium-plated, and all fixtures will be provided with some form of supply stop.
- C. All supply angle stop valves shall be chrome plated brass body, wheel handle, and escutcheon plate. Provide angle stop valves at CW and HW supply connections at all fixtures (instantaneous type water heaters, sinks and lavatories, etc.) with flexible risers; and at all appliances (dishwashers, ice makers, coffee makers, vending machines, etc.)
- D. All shut—off valves shall be ball valves with bronze body, chrome plated brass ball, and Teflon seat and packing; or Milwaukee "Butterball" with bronze body, stainless steel disk, and Viton disk seat. Provide shut—off valves and unions at all equipment connections (storage type water heaters, pumps, etc.).
- E. The exact location and elevation of all plumbing fixtures shall be coordinated with and provided in accordance with the architectural plans. The Contractor shall coordinate the exact location and elevation of all plumbing fixtures prior to any rough—in or top—out of any plumbing piping and services. Where any fixture or fixture group is designated as ADA accessible, the installation of the fixture or fixture groups shall comply with the requirements of the latest revision of ADAAG, whether or not the requirements are indicated specifically on the drawings.

22.02 POTABLE WATER PIPING

- A. Below Grade Beyond 5 Feet of Building Footprint:
- a. Cast Iron AWWA C151 with ductile or gray iron standard thickness fittings and rubber gasketed joints with 3/4 inch diameter rods.
- B. Below Grade Within 5 Feet of Building Footprint:
- a. Cast Iron AWWA C151 with ductile or gray iron standard thickness fittings and rubber gasketed joints with 3/4 inch diameter rods.
 b. 2" diameter and smaller: Copper tubing ASTM B88 Type K annealed with AWS A5.8 BCuP silver brazed (lead free) joints, no fittings.

c. Over 2" diameter: Copper tubing ASTM B88 Type K hard drawn with ASME A16.18 cast bronze or ASMÈ 16.22 wrought copper or bronze

fittings and AWS A5.8 BCuP silver brazed (lead free) joints.
d. No joints allowed below slab or grade. Wrap all below grade copper piping with continuous Armaflex insulation or Polyethylene sleeve.

C. Above Grade:

- a. 2-1/2" diameter and smaller: Copper tubing ASTM B88 Type L hard drawn with ASME A16.18 cast bronze or ASME 61.22 wrought copper or bronze fittings and ASTM B32 Grade 95TA solder (lead free) joints.
- b. Over 2-1/2" diameter: Copper tubing ASTM B88 Type K hard drawn with ASME A16.18 cast bronze or ASME 16.22 wrought copper or bronze fittings and AWS A5.8 BCuP silver brazed (lead free) joints OR Galvanized Steel pipe ASTM B53 schedule 40 with Cast Iron fittings and arooved mechanical joints.
- c. Where exposed at fixtures, use seamless brass pipe, chrome plated.

22.03 STORM, SANITARY WASTE AND VENT PIPING, ROOF DRAIN PIPING

- A. Below Grade Beyond 5 Feet of Building Footprint:
- a. Cast Iron pipe and fittings ASTM A74 service weight hub and plain end with CISPI 301 or ASTM C564 neoprene elastomeric compression
- type gaskets.

 b. PVC pipe and fittings ASTM D3033, ASTM D3034, or ASTM F679 type SDR 35 hub and plain end with ASTM F477 elastomeric compression type gaskets.
- B. Below Grade Within 5 Feet of Building Footprint:
- a. Cast Iron pipe and fittings ASTM A74 service weight hub and plain end with ASTM C564 neoprene elastomeric compression type gaskets. b. PVC pipe and fittings ASTM D3033. ASTM D3034. or ASTM F679 type SDR 35 hub and plain end with ASTM F477 elastomeric compression

type gaskets. C. Above Grade:

- a. Cast Iron pipe and fittings CISPI 301 service weight hubless with CISPI 310 neoprene elastomeric gaskets and stainless steel
- clamp—and—shield assemblies.

 b. Cast Iron pipe and fittings ASTM A74 service weight hub and plain end with ASTM C564 neoprene elastomeric compression type gaskets.

 Copper Tubing and fittings ASTM B306 type DWV with ASME B16.23 cast bronze or ASME B16.29 wrought copper fittings and ASTM B32
- grade 50B solder joints.

 c. PVC is an acceptable alternate if allowed by local code, but PVC will not be allowed in return air plenums, or in areas exposed to vehicular or forklift traffic. Verify with local code officials prior to bid. If used, PVC sanitary waste lines above grade will be externally insulated with fiberalass insulation for sound attenuation.

NATIONAL SENGINEERING:

SERVICES, PLLC

No. 2259

CONWAY OFFICE

813 OAK STREET, SUITE 10A #337

LITTLE ROCK OFFICE

3801 WOODLAND HEIGHTS ROAD, SUITE 125-I

LITTLE ROCK, AR 72212

PH: 501.235.3270

FAX: 501.235.3272

WWW.NES-ENG.COM

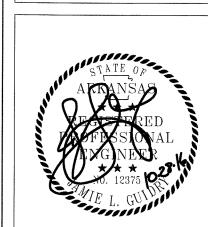


A PROJECT FOR:

earcy ire tation #

Searcy, Arkansas

Hoffmann
Architectural In



C COPYRIGHT 2016

HOFFMANN ARCHITECTURAL INC.

THIS DOCUMENT IS ISSUED AS AN INSTRUMENT OF SERVICE AND IS FOR THE PRODUCTION OF A SINGLE FACILITY AS NOTED IN THE SHEET TITLE. OWNERSHIP OF THIS DOCUMENT IS RETAINED BY HOFFMANN ARCHITECTURAL INC.. UNAUTHORIZED REPRODUCTION IS PROTECTED BY THE COPYRIGHT LAWS OF THE UNITED STATES AND IS HEREWITH PROHIBITED.

DATE: **10/28/16**

REVISIONS:

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON SITE PRIOR TO ORDERING MATERIALS OR CONSTRUCTION.

DRAWN BY:

MECHANICAL SPECIFICATIONS

SHEET:

22.04 NATURAL GAS PIPING

- A. Below Grade:
- a. Black steel pipe ASTM A 53 Schedule 40 with ASTM A 234/A234M forged steel welding type fittings and ASME B31.1 welded joints. Cover pipe with AWWA C105 polyethylene jacket or double layer, half—lappe 10 mil polyethylene tape.

 b. ASTM D2513 fusion welded polyethylene. DR—11.
- c. Anodeless rises equal to Central Plastics Company or Willett Manufacturers Products shall be provided for transitions from below grade to above grade natural gas service.
- B. Above Grade:
- a. Less than 2" diameter: Black steel pipe ASTM A 53 Schedule 40 with ASME B16.3 malleable iron fittings. Joints NFPA 54 threaded.
- b. 2" diameter and over: Black steel pipe ASTM A 53 Schedule 40 ASTM A 234/A234M forged steel welding type fittings, welded to ANSI B31.
- c. Paint all exposed and exterior gas piping with primer and finish coat of enamel. Exterior piping to have two coats of enamel. Unless otherwise noted, gas piping exposed to view shall be painted "OSHA safety yellow."
- d. Final connections to equipment located within <u>building interiors only</u> may be made utilizing ASTM A240, type 300 stainless steel corrugated tubing with ASTM E84 compliant 10 mil polyethylene jacketing. Maximum length shall be 24".

22.05 INSULATION

- A. Domestic Cold Water (Above—Grade): Equal to Owens—Corning 1" thick one—piece fiberglass pipe insulation with factory—applied White All—Service (ASJ) Vapor Barrier Jacket. Fittings will be molded or mitered fiberglass for sizes under 3", and molded fiberglass for sizes 3" and larger.
- B. Domestic Hot Water and Hot Water Recirculation (Above—Grade): Equal to Owens—Corning 1" thick fiberglass, one—piece, pipe insulation with factory—applied White All—Service (ASJ) Vapor Barrier Jacket. Fittings will be OC—110 cement for sizes under 3", and molded fiberglass for sizes 3" and larger.
- C. Domestic Hot and Cold Water (Below-Grade): Insulate piping located below slab or grade with "Foamglas" 3/4" thick and apply asphaltic coating equal to PC Pitcote 300. Insulation will be installed in accordance with manufacturer's instructions.
- D. Exposed Hot Water, Cold Water, and Drain Pipes Serving Lavatories: Where hot and cold water pipes serving fixtures are exposed, insulate for ADA compliance with product equal to Handi-Lav-Guard as manufactured by Trueboro, Inc., Ellinaton, CT.
- E. Horizontal Roof Drain and Overflow Piping (including pipe elbow below drain/overflow intake): Equal to Owens—Corning 1" thick one—piece fiberglass pipe insulation with factory—applied White All—Service (ASJ) Vapor Barrier Jacket. Fittings will be molded or mitered fiberglass for sizes under 3", and molded fiberglass for sizes 3" and larger.
- F. All insulated piping located exterior to the building will have the exterior of the insulation covered with an aluminum jacket.
- G. Where water lines are installed in ventilated attics or above the building insulation envelope, and where another method of freeze protection has not been provided, fiberglass batt type attic insulation equivalent to R—30 will be draped over the water lines. Insulation joints will be taped tight. This insulation requirement is in addition to pipe insulation.

22.06 TREATMENT AND ISOLATION

- A. All potable water systems and equipment will be treated and purified in compliance with local health codes and local water jurisdiction requirements. As a minimum, flush entire system, introduce chlorine or hypochlorite to standards required by local utility and health department, but not less than 50 ppm residual chlorine. During sterilization, operate all valves, faucets, etc. so that all portions of the system are reached. Let stand for 24 hours minimum. Flush system with clean water until chlorine content is reduced to 1 ppm at point furthest from where chlorine was introduced. After flushing has been completed provide laboratory report of bacteriological tests on samples taken from system. Repeat sterilization process until satisfactory tests are obtained and approved by Health Department. System shall not be put into service until such approval has been obtained.
- B. Furnish and install backflow prevention devices where potable water systems are stubbed out for connection to mechanical make—up water systems, at stub—outs for landscape irrigation systems, and for connections to any other non—potable type systems.

*** END OF SECTION 22 SPECIFICATIONS ***

SECTION 23 - HVAC

23.01 EQUIPMENT

- A. All equipment will be equal to the reference products scheduled on the drawings. Minimum standards of quality in construction, manufacturing, performance, testing and certification shall be established by the basis of design equipment.
- B. All exposed rotating machinery will be equipped with guards for safety. Guards used on equipment located on the exterior of the building will also serve as weather shields.
- C. Warranties: Unless noted otherwise on the plans, minimum equipment warranties shall be as follows:
- a. All refrigeration compressors: 5—years.b. Aluminized—steel heat exhangers: 10—years
- c. Stainless steel heat exchangers (primary and/or secondary): 15-years.

23.02 PIPING

- A. Refrigerant Piping: ASTM B280, type ACR copper, hard temper, cleaned, dehydrated, and sealed. Fittings shall be wrought copper with cadmium—free solder, 45% silver brazing alloy, and class Bag—5.
- B. Condensate Drain Piping:
- a. ASTM D1785 schedule 40 PVC pipe and ASTM D2665 fittings.
- b. ASTM B88 hard drawn copper with ANSI B16.22 wrought copper fittings.
 c. ASTM B306 type DWV copper with ANSI B16.29 wrought copper fittings.
- d. Join copper with ASTM B32 lead free solder, grade 95—TA 95—5 tin—antimony. e. All condensate drain piping routed on building exterior shall be copper.

23.03 PIPE INSULATION, DUCT INSULATION AND DUCT LINER

- A. All insulated piping located exterior to the building will have the exterior of the insulation covered with an aluminum jacket.
- B. Refrigerant Suction: Elastomer closed—cell flexible equal to Armstrong's Armaflex—22 pipe insulation, 3/4" minimum thickness.
- C. Condensate Drain (Overhead Horizontal): Elastomer closed-cell flexible equal to Armstrong's Armaflex-22 pipe insulation, 1/2" minimum thickness.
- D. Air Devices: Insulate the top of all air devices exposed to unconditioned plenums or attics with minimum of blanket of 2" thick 3/4 pound density fiberglass faced duct wrap type with factory—applied flame retardant foil—reinforced Kraft facing.
- E. Rectangular and Round Ductwork: Equal to ASTM C1290, type 75, flexible blanket, 3/4# density, factory—applied flame retardant foil—reinforced Kraft facing, Knauf Duct Wrap or equal. All ductwork will be wrapped unless indicated otherwise. Supply and return air ducts shall receive 2" thick insulation. Make—up, OSA, and exhaust air ductwork shall receive 1" thick insulation.
- F. Duct Liner: Use only where specifically shown or noted. Liner will be ASTM C1071, type 1 flexible duct liner, 1.5# density, 1" thickness, equal to Knauf Duct Liner E-M.
- G. Grease Hood Exhaust Duct: Wrap with 3M FireMaster or equal, 2" total thickness.
- H. All internally and externally insulated duct sizes, except for double—wall spiral duct, indicated are metal—to—metal dimensions. Double wall spiral duct size indicated is inner wall dimension.
- I. All insulation and liner will be UL listed with flame spread/fuel contributed/smoke developed rating of 25/25/50 in accordance with ASTM E 84.

23.04 SHEET METAL

- A. Sheet metal ductwork will be installed in accordance with ASHRAE "Guide" and SMACNA "Low Velocity Duct Manual".
- B. Dryer duct shall be minimum 26 gauge galvanized steel or aluminum. All joints shall be sealed air tight with sealant approved for dryer applications.
- C. All duct dimensions indicate required clear inside duct dimensions. Fabricate duct accordingly to compensate for internal duct liner when applicable.
- D. All rigid rectangular and round supply, return and space exhaust ductwork will be galvanized.
- E. Grease Hood Exhaust Duct: Grease exhaust duct must be not less than 16 gauge carbon steel. All seams and joints are to have a liquid tight weld with duct sloped toward hood to prevent collection of grease residue. The exhaust duct must have a fire rated access door for cleaning duct at all changes in direction. Access must be at sides of duct. Horizontal ductwork shall pitch to drain back to hood at 1/4" per foot. Duct construction and installation must comply with NFPA 96.
- F. Provide flexible connections at each air-handling device with fan.
- G. Round—round supply air take—offs shall be equal to Air—Tite CATDRS galvanized saddle fitting with neoprene gasket on flange, integral damper with locking quadrant lever and 2" stand—off bracket.
- H. Rectangular-round supply air take-offs shall be equal to Air-Tite HETDQ galvanized high-efficiency 45-degree fitting with neoprene gasket on flange,

integral damper with locking quadrant lever and 2" stand-off bracket.

- I. Rectangular—round return and exhaust air take—offs shall be equal to Air—Tite CATDQ galvanized high—efficiency flat fitting with neoprene gasket on flange, integral damper with locking quadrant lever and 2" stand—off bracket.
- J. Provide adequate dampers so the dampers at the grilles are not required to balance the system. Install in accessible locations or at access panels / doors. Ganging of multiple diffusers onto one balancing damper is not acceptable unless specifically shown.
- K. Grilles, diffusers and registers will be equal to those indicated on drawings.

23.05 FLEXIBLE AIR DUCTS

A. Listed under UL—181 standards as Class I Air Duct material. Minimum operating pressure 6" w.c., minimum working velocity 4,000 FPM. Insulated with 1" thick, 3/4 lb. density fiberglass insulation. Material must be acceptable to authority having jurisdiction. Note: Flexible ducts are not allowed on exposed round ducts.

23.06 DAMPERS AND DETECTORS

- A. Provide U.L. listed fire, smoke, and combination fire—smoke dampers where indicated and/or noted. Verify the locations of all fire, smoke, and combination fire/smoke rated partitions with the architectural plans and provide rated dampers where required, whether or not they are specifically noted on the mechanical drawings. Rated dampers shall be U.L. Listed (#555 and/or #555S, as applicable) according to the type required. All dampers shall be installed in strict accordance with the manufacturer's instructions according to the damper's listing, rating, service type and installation requirements.
- B. Louvers will be Greenheck or equal, size and type as indicated on the drawings. All louvers to be drainable type with insect screens.
- C. Balancing dampers will be provided as indicated and where required to allow balancing of supply air to each air device, and to allow balancing of return air and outside air ratios. Rectangular balancing dampers shall be opposed blade configuration, 5—inch deep 20—gauge galvanized hat channel frame, 16 gauge galvanized steel blades, 1/2—inch plated steel axles, oil impregnated bronze bearings, manual hand quadrant with 2" stand—off bracket, Greenheck MBD—15 or equal. Round balancing dampers shall be 6—inch wide 20—gauge galvanized steel frame, 20 gauge galvanized steel blade, 3/8—inch square plated steel axle turning in acetal bearings, manual hand quadrant with 2" stand—off bracket, Greenheck MBDR—50 or equal.
- D. Ionization type duct smoke detectors will be provided where indicated, noted and required or as required by code. At a minimum, smoke detectors are required in the return air ducts of air handling systems 2000 cfm or greater. Interlock all detectors for unit shutdown.

23.07 CONTROLS

- A. Provide all temperature controls in accordance with recommendations of the equipment manufacturer and as indicated on the drawings.
- B. Controls will be electronic.
- C. Thermostats and temperature sensors shall not be located on exterior walls. Where it is unavoidable to do so, provide a minimum 1" thick rigid insulation thermal break between the thermostat/sensor base and the wall. The insulation shall be covered with sheet metal or other means to result in a neat, clean and workmanlike appearance.
- D. Provide all wiring, etc., required for complete and operating system. Control wiring shall be minimum 18—gauge multi—strand plenum rated wiring. All wiring located in, above, or behind inaccessible cointratuion shall be installed in 3/4" EMT conduit. All wiring shall be routed continuously from the the control device to the controller, thermostat, or interface panel. Splicing shall not be permitted. Wiring connections shall be either crimped or soldered.
- E. Furnish complete wiring diagrams showing all interlock wiring in addition to temperature control wiring diagrams. Wiring is to be color-coded and installed in accordance with NEC.
- F. The mechanical contractor shall provide training to the owner on all HVAC control systems.

*** END OF SECTION 23 SPECIFICATIONS ***





PH: 501.235.3270

FAX: 501.235.3272

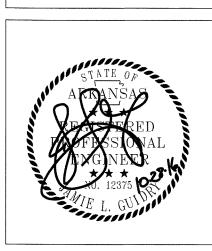
A PROJECT FOR:

Searcy Fire Station #2

Searcy, Arkansas

ffmann chitectural Inc

0



C COPYRIGHT 2016

HOFFMANN ARCHITECTURAL INC.
THIS DOCUMENT IS ISSUED AS AN INSTRUMENT OF SERVICE AND IS FOR THE PRODUCTION OF A SINGLE FACILITY AS NOTED IN THE SHEET TITLE. OWNERSHIP OF THIS DOCUMENT IS RETAINED BY HOFFMANN ARCHITECTURAL INC.. UNAUTHORIZED REPRODUCTION IS PROTECTED BY THE COPYRIGHT LAWS OF THE UNITED STATES AND IS HEREWITH PROHIBITED.

DATE: **10/28/16**

REVISIONS:

CONTRACTOR MUST CHECK
AND VERIFY ALL DIMENSIONS
AND CONDITIONS ON SITE
PRIOR TO ORDERING
MATERIALS OR CONSTRUCTION.

DRAWN BY:

MECHANICAL SPECIFICATIONS

SHEET:

MP0.3

PLUMBING GENERAL NOTES

- 1. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT A COMPLETE PLUMBING SYSTEM BE PROVIDED WITH ALL NECESSARY EQUIPMENT, APPURTENANCES AND CONTROLS COMPLETELY COORDINATED WITH ALL DISCIPLINES. ALL PARAMETERS GIVEN IN THESE DOCUMENTS SHALL BE STRICTLY CONFORMED TO. ANY ITEMS AND LABOR REQUIRED FOR A COMPLETE PLUMBING SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS, LOCAL AUTHORITIES AND THESE CONTRACT DOCUMENTS SHALL BE FURNISHED WITHOUT INCURRING ANY ADDITIONAL COST TO THE OWNER. THE WORD "PROVIDE" SHALL MEAN FURNISH AND INSTALL. CAREFULLY REVIEW ALL CONTRACT DOCUMENTS AND THE DESIGN OF OTHER TRADES BEFORE PREPARING SHOP DRAWINGS. THE "I WAS HERE FIRST" RULE DOES NOT QUALIFY AS COORDINATION.
- 2. ANY CONFLICTS OF WORK SHALL BE BROUGHT TO THE ARCHITECTS ATTENTION BY THE PLUMBING CONTRACTOR PRIOR TO PURCHASE OF EQUIPMENT OR COMMENCEMENT OF WORK.
- 3. COORDINATE ALL WORK WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL TRADES. PIPE ROUTING SHOWN IS DIAGRAMMATIC. PROVIDE ALL OFFSETS, ETC. TO AVOID INTERFERENCE'S WITH EQUIPMENT, PIPING, DUCT WORK, LIGHTS, CONDUIT, STRUCTURAL MEMBERS, ETC. ALL INVERTS SHALL BE VERIFIED IMMEDIATELY FOLLOWING AWARD OF CONTRACT. ALL INVERTS SHALL BE COORDINATED WITH STRUCTURAL FOOTINGS.
- COORDINATE ALL FLOOR PENETRATIONS WITH STRUCTURAL DRAWINGS. SET SLEEVES IN FLOORS AND WALLS AND ATTACHMENTS FOR HANGERS AS CONSTRUCTION PROGRESSES. COORDINATE THE EXACT SIZE AND LOCATION OF ALL SLEEVES WITH STRUCTURAL ENGINEER. ALL PENETRATIONS MUST BE SEALED AND HELD AS TIGHT TO COLUMNS OR WALLS AS POSSIBLE.
- 5. THE WORK SPECIFIED HEREIN SHALL INCLUDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, SUPPLIES AND SUPERVISION REQUIRED TO INSTALL AND PLACE IN OPERATION THE MECHANICAL SYSTEMS AND APPURTENANCES SPECIFIED HEREIN AND/OR INDICATED ON THE DRAWINGS OR REASONABLY IMPLIED AS NECESSARY FOR COMPLETION OF THE VARIOUS SYSTEMS. ALL WORK SHALL BE COMPLETED IN A NEAT AND CLEAN MANNER IN ACCORDANCE WITH CURRENT INDUSTRY STANDARDS.
- 6. ALL WORK SPECIFIED HEREIN SHALL BE PERFORMED BY PROPERLY LICENSED, TRAINED, AND EXPERIENCED TRADESMEN. THE CONTRACTOR SHALL PROVIDE A FIELD SUPERVISOR WITH THE AUTHORITY AND EXPERIENCE REQUIRED TO INSTRUCT THE WORK, MAKE JOB DECISIONS, AND ACT ON BEHALF OF THE CONTRACTOR IN MATTERS PERTAINING TO THE CONTRACT DOCUMENTS.
- 7. THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL EXISTING CONDITIONS PRIOR TO BID.
- 8. THE CONTRACTOR SHALL REMOVE ALL RESPECTIVE CONSTRUCTION WASTE AND DEBRIS FROM THE SITE AND SHALL BE RESPONSIBLE FOR THE LAWFUL DISCARD OF SUCH WASTE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS. THE COMPLETED WORK AND THE ADJACENT AFFECTED AREAS SHALL BE THOROUGHLY CLEANED TO THE SATISFACTION ON THE OWNER, ARCHITECT, AND ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, PATCHING, AND PAINTING REQUIRED BY THE RESPECTIVE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SATISFACTORILY REPAIRING EXCESSIVE, UNNECESSARY PENETRATIONS OR OVERSIZED PENETRATIONS THROUGH CONSTRUCTION. IF THE ARCHITECT/ENGINEER DEEMS NECESSARY, ANY CONSTRUCTION DAMAGED FROM CUTTING OR PENETRATION ACTIVITIES SHALL BE REMOVED AND REPLACED AT NO ADDITIONAL COST TO THE OWNER. THERE SHALL BE NO CUTTING OR PENETRATING OF CONSTRUCTION THAT WILL COMPROMISE THE STRUCTURAL INTEGRITY OF THE BUILDING SYSTEM. IF THE CONTRACTOR DEEMS IT NECESSARY TO ALTER, CUT, OR PENETRATE A STRUCTURAL MEMBER, EXPRESS PERMISSION SHALL BE GIVEN BY THE STRUCTURAL ENGINEER PRIOR TO PROCEEDING. IT IS PERMISSIBLE FOR BEAMS TO BE PENETRATED WITH SMALL SCREWS WITHOUT PRIOR APPROVAL
- 10. WALL/FLOOR PENETRATIONS:
- A. STAINLESS STEEL PIPE ESCUTCHEONS SHALL BE PROVIDED AT ALL EXPOSED PIPE PENETRATIONS THROUGH WALLS. ESCUTCHEONS SHALL BE SECURED TIGHT TO WALL SURFACES.
- B. ALL PIPING PENETRATIONS THROUGH EXTERIOR WALLS SHALL BE SLEEVED. THE INTERSTITIAL SPACE BETWEEN THE SLEEVE AND THE PIPE SHALL BE SEALED WEATHERTIGHT. STAINLESS STEEL ESCUTCHEONS SHALL BE PROVIDE ON BOTH SIDES OF THE SLEEVE FOR A NEAT AND CLEAN FINISH.
- C. ALL PENETRATIONS THROUGH FIRE/SMOKE RATED CONSTRUCTION SHALL BE SEALED UTILIZING U.L. LISTED MATERIALS AND DESIGNS TO MAINTAIN FIRE—RATING. U.L. LISTED DESIGNS FOR EACH PENETRATION TYPE UTILIZED BY THE CONTRACTOR SHALL BE SUBMITTED TO THE ARCHTIECT AND ENGINEER FOR APPROVAL.
- 11. FUEL-GAS PIPING:
 - A. ALL UNDERGROUND POLYETHYLENE FUEL GAS PIPING SHALL RECEIVE TRACER WIRE.
 - B. PROVIDE A GAS COCK AND A MINIMUM 6" DIRT LEG AT THE CONNECTIONS TO ALL FUEL-FIRED EQUIPMENT.
 - C. ABOVE GRADE EXTERIOR GAS PIPING SHALL BE SUPPORTED MINIMUM 3-1/2" ABOVE ALL HORIZONTAL FINISHED SURFACES INCLUDING, BUT NOT LIMITED TO, MECHANICAL PADS AND ROOFS. PIPE SUPPORTS SHALL BE PERMANENT AND SHALL SECURE PIPING IN PLACE IN A RIGID MANNER.
- 12. DUE TO THE SMALL SCALE OF THE PLANS, IT IS NOT ALWAYS POSSIBLE TO INCLUDE ALL PLUMBING LINE SIZES ON THE PLANS. REFER TO THE PLUMBING RISERS, DETAILS AND NOTES FOR ALL LINE SIZES NOT INDICATED ON THE PLUMBING PLANS.
- 13. REFER TO THE ARCHITECTURAL PLANS FOR ALL ROOM NAMES AND NUMBERS.
- 14. THE CONTRACTOR SHALL COORDINATE AS REQUIRED TO ENSURE NO WATER LINES PASS OVER ELECTRICAL EQUIPMENT INCLUDING, BUT NOT LIMITED TO, POWER PANELS, FIRE ALARM CONTROL PANELS, TRANSFORMERS, AND PHONE/DATA BOARDS.
- 15. ALL PIPING SYSTEMS SHALL BE PROTECTED AGAINST DISSIMILAR METAL GALVANIC CORROSION BY SEPARATION, INSULATION, OR ENGINEERED CONNECTIONS SUCH AS DIELECTRIC UNIONS.
- 16. ALL WATER PIPING SYSTEMS SHALL BE PROTECTED AGAINST WATER HAMMER AND HYDRAULIC SHOCK. WATER HAMMER ARRESTORS SHALL BE PROVIDED AS SCHEDULED AND IN ACCORDANCE WITH THEIR PDI RATING BASED ON THE NUMBER OF WATER SERVICE FIXTURE UNITS SERVED. WATER HAMMER ARRESTORS SHALL BE INSTALLED AT ALL QUICK CLOSING VALVES, INCLUDING BUT NOT LIMITED TO FLUSH VALVES. WATER HAMMER ARRESTORS SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- 17. PIPE INSULATION SHALL BE CONTINUOUS AND UNBROKEN THROUGH ALL HANGERS, SUPPORTS, WALL PENETRATIONS, ETC.
- 18. PROVIDE SERVICE/SHUT—OFF VALVES ON ALL WATER BRANCH LINES SERVING INDIVIDUAL FIXTURES/EQUIPMENT. VALVES SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION. PROVIDE SHUT—OFF VALVES IN ACCORDANCE WITH AND WHERE REQUIRED BY THE RELEVANT PLUMBING CODE AND THE AUTHORITY HAVING JURISDICTION, WHETHER OR NOT VALVES ARE SPECIFICALLY NOTED ON THE PLANS.
- 19. PROVIDE ACCESS PANELS FOR SHOCK ABSORBERS, TRAP PRIMERS AND ALL VALVES LOCATED ABOVE NON-ACCESSIBLE CEILINGS AND INSIDE PIPE CHASES. EXACT LOCATION MUST BE COORDINATED WITH ARCHITECTURAL DRAWINGS AND APPROVED BY ARCHITECT PRIOR TO INSTALLATION.
- 20. ALL DRAINAGE PIPING AND POTABLE WATER PIPING SHALL BE CONCEALED INSIDE WALLS AND PIPE CHASES OR ABOVE CEILINGS AS HIGH AS POSSIBLE.
- 21. COORDINATE ALL UNDERGROUND PIPING WITH GRADE BEAMS, WALL FOOTINGS, COLUMN FOUNDATIONS AND OTHER STRUCTURAL CONDITIONS. SEE STRUCTURAL PLANS FOR DETAILS REGARDING ANY PIPING PARALLEL TO, THROUGH OR UNDER FOOTINGS AND PIERS
- 22. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR LOCATION OF ALL PLUMBING FIXTURES. EXACT LOCATION OF ALL PLUMBING FIXTURES MUST BE VERIFIED IN FIELD PRIOR TO INSTALLATION. FINAL LOCATION SHALL BE AS DIRECTED BY ARCHITECT.
- 23. PLUMBING CONTRACTOR SHALL MAKE FINAL CONNECTION TO ALL EQUIPMENT INDICATED ON DRAWINGS. FINAL CONNECTION SHALL INCLUDE ANY ADAPTERS, NIPPLES SHUTOFF VALVES, PRESSURE REGULATING VALVES, SHOCK ABSORBERS, BACKFLOW PREVENTION DEVICES, ETC.
- 24. PROVIDE A BACKFLOW PREVENTION DEVICE AT ALL CONNECTIONS TO MECHANICAL EQUIPMENT, IRRIGATION, VENDING MACHINES, ETC. AS REQUIRED BY CODE AND LOCAL AUTHORITIES. CONTRACTOR IS TO VERIFY WITH THE LOCAL AUTHORITY THE TYPE OF BACKFLOW PREVENTION DEVICE REQUIRED FOR ALL APPLICATIONS PRIOR TO INSTALLATION.
- 25. ALL STRUCTURAL PENETRATIONS (SLEEVES, BLOCKOUTS, ETC.) ARE TO BE LOCATED AND COORDINATED IN THE FIELD BY THE CONTRACTOR IN RELATION TO THE REQUIREMENTS OF FINAL EQUIPMENT AND FIXTURES SELECTED.
- 26. WHEN REQUIRED, COORDINATE ALL FLOOR SINK GRATE ORIENTATIONS AND REQUIRED OPEN SPACES (1/2 GRATE, 12" INCH GRATE, ETC.) WITH KITCHEN EQUIPMENT CONTRACTOR.
- 27. CLOSET FLANGES SHALL CAST-IRON. PVC CLOSET FLANGES SHALL NOT BE PERMITTED.
- 28. PLUMBING CONTRACTOR SHALL VERIFY VOLTAGE, PHASE AND WIRE SIZE OF PLUMBING EQUIPMENT REQUIRING ELECTRICAL CONNECTION WITH ELECTRICAL CONTRACTOR PRIOR TO PURCHASE OF EQUIPMENT
- 29. SANITARY VENTS MUST TERMINATE A MINIMUM OF 10 FT. FROM OR 2 FT. ABOVE AIR INTAKES, WINDOWS OR VENT SHAFTS.
- 30. INDIRECT WASTE RECEPTORS MUST BE LOCATED WHERE READILY ACCESSIBLE FOR INSPECTION AND CLEANING.
- 31. ALL INDIRECT WASTE PIPING SHALL DISCHARGE THROUGH AN AIR GAP OR AIR BREAK INTO A WASTE RECEPTOR. ALL INDIRECT WASTE PIPING THAT EXCEEDS TWO (2) FEET IN DEVELOPED LENGTH MEASURED HORIZONTALLY OR FOUR (4) FEET IN TOTAL DEVELOPED LENGTH, SHALL BE TRAPPED.
- 32. CONTRACTOR SHALL HANG ALL PIPING FROM THE STRUCTURAL MEMBERS (W-SHAPES, BAR JOISTS). PIPING SHALL NOT BE SUPPORTED FROM THE METAL DECK.
- 33. PROVIDE FIELD TESTABLE BACKFLOW PREVENTION DEVICE IN LINES SERVING HOSE BIBBS.

PLUMBING FIXTURE SCHEDULE

1. ALL INSTALLATION APPURTENANCES REQUIRED FOR THE COMPLETE AND OPERATIVE INSTALLATION OF ALL PLUMBING FIXTURES SHALL BE PROVIDED, WHETHER OR NOT SPECIFICALLY INDICATED IN THIS SCHEDULE.

2. WHERE THE PLANS INDICATE THE CONNECTION OF A FIXTURE DRAIN TO A COMBINATION WASTE/VENT SYSTEM, THE TRAP SIZE INDICATED IN THIS SCHEDULE SHALL BE INCREASED BY ONE FULL PIPE SIZE.
3. IN ACCORDANCE WITH FEDERAL LAW, WHETHER OR NOT SPECIFICALLY INDICATED IN THE PLUMBING FIXTURE SCHEDULE OR IN THE PLANS, ALL PLUMBING EQUIPMENT AND MATERIALS CONVEYING POTABLE WATER SHALL BE CONSTRUCTED WITH LEAD FREE MATERIALS IN ACCORDANCE WITH REDUCTION OF LEAD IN DRINKING WATER ACT.

MARK/ DESCRIPTION		MANUFACTURER/MODEL	WASTE	SERVICES	(INCHES)	l нw	REMARKS		
WC-1	BOWL	KOHLER #K-4350	WASIL	VEIN		1111	WHITE VITREOUS CHINA, ELONGATED BOWL, SIPHON JET FLUSH, 10" OR 12" ROUGH-IN, 1-1/2" TOP SPUD, 14-3/4" HIGH		
WATER CLOSET MANUAL FLUSH VALVE	SEAT	KOHLER #K-4670-C	4	2	1-1/2		1.6 GPF FLUSH VALVE, OPEN FRONT WHITE SEAT, SEAL, BOLT CAPS.		
	FLUSH VALVE	ZURN Z6000-WS1			' ',-				
WC-2	BOWL	KOHLER #K-4302				<u> </u>	WHITE VITREOUS CHINA, ELONGATED BOWL, SIPHON JET FLUSH, 10" OR 12" ROUGH-IN, 1 1/2" TOP SPUD, 16-1/2" HIGH		
WATER CLOSET MANUAL FLUSH VALVE	SEAT		2	1-1/2		1.6 GPF FLUSH VALVE, HANDLE INSTALLED TO WIDE SIDE OF TOILET ROOM, OPEN FRONT WHITE SEAT, SEAL, BOLT CAPS.			
ADA COMPIANT	FLUSH VALVE	KOHLER #K-4670-C ZURN Z6000-WS1			1-1/2				
L-1									
LAVATORY	BASIN	KOHLER #K-1729					WHITE VITREOUS CHINA, WALL MOUNTED 20"x18" BASIN W/FRONT OVERFLOW, COMMERCIAL CHROME-PLATED SOLID BRASS 4 CENTER FAUCET, INDEXED LEVER HANDLES, GRID STRAINER W/TAILPIECE, CAST BRASS P-TRAP, ANGLE SUPPLIES W/STOPS.		
VITREOUS CHINA WALL HUNG	FAUCET	T&S BRASS #B-0871					CARRIER, INSULATION ON DRAIN AND SUPPLIES.		
ADA COMPLIANT	STOPS	BRASSCRAFT #OCR1912AZ C							
	GRID STRAINER	BRASSCRAFT #0701	2	1-1/2	1/2	1/2			
	TRAP	BRASSCRAFT #0010							
	CARRIER ZURN #Z1231 SERIES INSULATION TRUEBRO LAV—GUARD 2								
	INSULATION								
SK-1 DOUBLE BASIN	BASIN	ELKAY #LRAD331955-4					18 GA. TYPE 304 STAINLESS STEEL, 4-HOLE DRILLING, COUNTER MOUNTED, ADA COMPLIANT, 33"x19"x5-1/2" DEEP, 8"		
STAINLESS STEEL	FAUCET	T&S BRASS #B-1172					COMMERCIAL CHROME-PLATED CENTER FAUCET WITH SIDESPRAY, SOLID BRASS CONSTRUCTION, 8" SWING NOZZLE, INDEXED LEVER HANDLES, BASKET STRAINER W/TAILPIECE, CAST BRASS P-TRAP, ANGLE SUPPLIES W/STOPS. PROVIDE INSULATION OF		
COUNTER MOUNTED ADA COMPLIANT DEPTH	STOPS	BRASSCRAFT #OCR1912AZ C					TRAP AND SUPPLIES WHEN CABINET IS OPEN TO PLUMBING — REFER TO ARCHITECTURAL.		
	BASKET STRAINER BRASSCRAFT #0703		2	1-1/2	1/2	1/2			
	TRAP	BRASSCRAFT #0020							
	INSULATION	TRUEBRO LAV-GUARD 2							
SK-2	BASIN	ELKAY #DLFR191810					18 GA. TYPE 304 STAINLESS STEEL, COUNTER MOUNTED, 19"x18"x10" DEEP, 8" COMMERCIAL CHROME PLATED CENTER FAU		
DOUBLE BASIN STAINLESS STEEL	FAUCET	T&S BRASS #B-1172					WITH SIDESPRAY, SOLID BRASS CONSTRUCTION, 8" SWING NOZZLE, INDEXED LEVER HANDLES, BASKET STRAINER W/TAILPIECE		
COUNTER MOUNTED	STOPS	BRASSCRAFT #OCR1912AZ C		1 1/0	1.0	4.70	CAST BRASS P-TRAP, ANGLE SUPPLIES W/STOPS.		
DEEP BASIN		BRASSCRAFT #0703	2	1-1/2	1/2	1/2			
	BASKET STRAINER								
	TRAP								
SS-1 SERVICE SINK	BASIN	MUSTEE #63M					WHITE MOLDED FIBERGLASS FLOOR BASIN, 24"x24"x10" DEEP BASIN, REMOVABLE CHROME FLAT STRAINER, WALL FAUCET		
FLOOR BASIN	FAUCET	MUSTEE #63.600A					W/VACUUM BREAKER, INTEGRAL STOPS, ADJUSTABLE WALL BRACE, PAIL HOOK, AND THREADED HOSE END, HOSE AND HOSE BRACKET, 3-CLAMP MOP HANGER, BUMPER GUARDS, AND STAINLESS STEEL WALL GUARDS.		
	BUMPER GUARDS	MUSTEE #63.401		1-1/2	3/4	3/4			
	MOP HANGER	MUSTEE #63.600		1-1/2	3/4	374			
	HOSE/CLAMPS	MUSTEE #65.700							
	WALL GUARD	MUSTEE #63.2436							
SH-1	MODULE	AQUARIUS #G 3679 SH					GELCOAT FIBERGLASS BASIN WITH SIX-INCH TILE PATTERN, TWO INTEGRAL SOAP LEDGES, 36"x36"x78" TALL WITH OPEN TOP		
ELCOAT SHOWER 6"x36" BASIN	SHOWER VALVE/HEAD	T&S BRASS #B-3301					VERIFY RIGHT OR LEFT HAND UNIT PRIOR TO BID; ASSE 1016 COMPLIANT SOLID BRASS PRESSURE BALANCED MIXING VALVE		
OU AGO BAGIN	DRAIN	ZURN #FD-2275	3	1-1/2	3/4	3/4	WITH ADJ. TEMP. LIMIT STOP AND 1/2" NPT CONNECTIONS, HOT/COLD INDEXED CHROME COVER PLATE ASSEMBLY, 2.5 GPM SHOWER HEAD WITH ADJ. SPRAY AND 1/2" NPT CONNECTION; BRASS BODY NO—CAULK DRAIN WITH STAINLESS STEEL		
	SHOWER ROD	DELTA #42205-SS					STRAINER, WATERTIGHT GASKET AND SECURING NUT; CURVED, ADJUSTABLE STAINLESS STEEL CURTAIN ROD.		
EWC-1	FOUNTAIN	OASIS #PG8AC					FLECTRIC WATER COOLER PARRIER FREE 400/4/CO 4/4 HR COMPRESCOR 4.0 FLA 0.0 CRIT OF FREE TWEET IT OF		
ELECTRIC WATER COOLER	***************************************						ELECTRIC WATER COOLER, BARRIER FREE, 120/1/60, 1/4 HP COMPRESSOR, 4.6 FLA, 8.0 GPH OF 50 DEG F WATER AT 90 DEG F AMBIENT AND 80 DEG F INLET. PROVIDE WITH INTEGRAL, FACTORY MOUNTED GLASS FILLER.		
SINGLE UNIT WITH GLASS FILLER		BRASSCRAFT #OCR1912AZ C	2	1-1/2	1/2				
	TRAP	BRASSCRAFT #0010							
	CARRIER	ZURN #Z1225 SERIES	***************************************						
WMB WASHING MACHINE	GUY GRAY #B200		_	_	1/2	1/2	G90 HOT DIP GALVANIZED 20 GAUGE BOX AND FACEPLATE, CENTER DRAINING, AND HOT AND COLD HOSE BIBBS WITH THREADED HOSE-END CONNECTIONS. WALL BOX IS FOR WATER SUPPLY ONLY - CAP THE DRAIN CONNECTION - WASHER		
DRAIN/VALVE BOX					'/-	'/-	SHALL DRAIN TO THE TRENCH (REFER TO THE PLANS).		
IMB ICE MAKER VALVE BOX	GUY GRAY #BIM875		_	****	1/2	_	G90 HOT DIP GALVANIZED 20 GAUGE BOX AND FACEPLATE, 1/2" VALVE WITH 1/4" O.D. COMPRESSION OUTLET.		
FD-1	ZURN #ZN-415-6S						COATED CAST-IRON BODY, ADJUSTABLE STRAINER TOP, 6x6 SQUARE NICKEL BRONZE GRATE, AND TRAP GUARD SEAL.		
	PROSET SYSTEMS TRAP	GUARD	2	1-1/2			COATED CAST-IRON BODT, ADJUSTABLE STRAINER TOP, 6x6 SQUARE NICKEL BRONZE GRATE, AND TRAP GUARD SEAL.		
FS-1	ZURN #ZN-1901-2		4	2	#1000 OFFICE		CAST-IRON BODY, ENAMEL COATED INTERIOR, 12" SQUARE x 8" DEEP, NICKEL BRONZE 1/2 GRATE, ABS PLASTIC DOME		
FLOOR SINK	PROSET SYSTEMS TRAP		T				STRAINER IN DRAIN OPENING, AND TRAP GUARD SEAL.		
LT-1 LINT TRAP	ROCKFORD #RLS-2824		4	2			ALL WELDED 10-GAUGE STEEL LINT SEPARATOR, 50 GALLON STATIC HOLDING CAPACITY, 4" TAPPED INLET/OUTLET WITH 2" TAPPED INTERNAL VENT CONNECTION, VISIBLE DOUBLE-WALL OUTSIDE TRAP SEAL, REMOVABLE FILTER, REMOVABLE 3/8" NON-SKID DIAMOND TREAD PLATE COVER FOR FLUSH-WITH-FLOOR INSTALLATION WITH STAINLESS STEEL SCREWS, RECESSED LIFT HANDLES IN COVER, HEAVY DUTY LEAK-PROOF GASKET, AND OPEX SHOP COATING INSIDE/BITUMINOUS COATING OUTSIDE LINT TRAP SHALL BE MOUNTED FLUSH WITH THE SLAB IN A FULLY ACCESSIBLE LOCATION. PROVIDE INTEGRAL EXTENSION AS REQUIRED TO MAINTAIN FLOW INVERTS.		
S/0-1 SAND/OIL SEPARATOR	PETERSON CONCRETE TA 1,000 GALLON CAPACITY		4	2			PRECAST CONCRETE BASIN, 4500 PSI CONCRETE @ 28 DAYS, TOP/BOTTOM REINFORCEMENT SHALL BE #4 REBAR @ 20" O.C.E.W. WITH 6X6X10 WIRE MESH, SIDE REINFORCEMENT SHALL BE #3 REBAR @ 20" O.C.E.W. WITH #12 TWISTI CABLE, 2 EACH STANDARD MANHOLE RING AND COVERS, KOR-N-SEAL BOOTS.		
TD-1 FLOW-THRU TRENCH DRAIN	ZURN #886-HD-DGC		4				MODULAR TRENCH DRAIN SYSTEM, HIGH DENSITY POLYETHYLENE BODY, CLASS C TRAFFIC RATED GRATE, CONTINUOUS 0.75% SLOPE		
COTG	ZURN #Z1400-BP-HD		SEE PLAN				CAST IRON CLEANOUT WITH THREADED ADJUSTABLE HOUSING, BRONZE PLUG, AND ROUND SCORIATED AND SECURED		
CLEANOUT TO GRADE FCO	7HDN #74400 DD						CAST-IRON COVER. SEE PLUMBING PLAN FOR SEWER LINE CONNECTION SIZES.		
FLOOR CLEANOUT	ZURN #Z1400-BP		SEE PLAN		****		CAST IRON CLEANOUT WITH THREADED ADJUSTABLE HOUSING, FLANGED FERRULE AND ROUND SECURED NICKEL BRONZE TOP SEE PLUMBING PLAN FOR SEWER LINE CONNECTION SIZES.		
WCO	ZURN #Z1446		SEE PLAN		****		CAST IRON CLEANOUT TEE WITH THREADED BRASS COUNTERSUNK PLUG DRILLED AND TAPPED FOR A 1/4-20 SCREW.		
WALL CLEANOUT WHA WATER HAMMER	WADE SHOKSTOP WOODFORD #B67 NIDEL #37HA				SEE PLAN		PROVIDE STAINLESS STEEL ROUND WALL COVER. PISTON TYPE, TYPE L COPPER CASING, AIR CHAMBER SEALED W/(2) BUNA-N RINGS AND POLY-PISTON OR BELLOWS TYPE, NITROGEN PRECHARGED, STAINLESS STEEL BELLOWS AND STAINLESS STEEL CASING. SEE PLANS FOR PDI RATING OF		
ARRESTOR HB-1 HOSE BIBB					3/4		INDIVIDUAL ARRESTORS AUTOMATIC DRAINING, FREEZE PROOF, DOUBLE CHECK VALVES, ANTI-SIPHON VACUUM BREAKER, TEE-KEY OPERATION, AND LOCKING CHROME WALL BOX MARKED "WATER".		
REEZE PROOF HB-2	WOODFORD #24P				3/4		MILD CLIMATE, ANTI-SIPHON WALL FAUCET WITH VACUUM BREAKER.		
HOSE BIBB					2-1/2		USCFCCCHR AND ASSE 1013 APPROVED, U.L. LISTED CONSISTING OF (2) INDEPENDENTLY OPERATING CHECK VALVES WITH INTERMEDIATE RELIEF VALVE, (4) INTEGRAL TEST COCKS, INLET AND OUTLET NON-RISING STEM GATE VALVES, INLET		
	WATTS #909-NRS-S				- ',-		Y-STRAINER, AND AIR GAP FITTING.		
HOSE BIBB RPZ REDUCED PRESSURE ZONE BACKFLOW PREVENTER IWH-1	RHEEM RTGH-95DVLN-1 3.8 GPM @ 100°F TEMP 140°F SETPOINT	. RISE			1	1	Y-STRAINER, AND AIR GAP FITTING. INSTANTANEOUS WATER HEATER, NATURAL GAS-FIRED, 199.0 MBTUH INPUT, 94% THERMAL EFFICIENCY, 2-PIPE POWER DIRECT VENT, STAINLESS STEEL CONDENSING HEAT EXCHANGER, MANIFOLD CONTROL FOR PARALLEL PIPING OF MULTIPLE HEATERS, HOT-START PROGRAMMING TO MINIMIZE "COLD WATER SANDWICH EFFECT", 120V POWER CORD, INTEGRAL MANUAL GAS ISOLATION VALVE.		





CONWAY OFFICE

813 OAK STREET, SUITE 10A #337

CONWAY, AR 72032

LITTLE ROCK OFFICE

3801 WOODLAND HEIGHTS ROAD, SUITE 125-I
LITTLE ROCK, AR 72212

PH: 501.235.3270

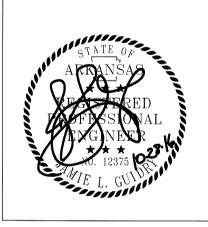
FAX: 501.235.3272

WWW.NES-ENG.COM

Searcy Fire

Searcy, Arkansas

Hoffmann Architectural In



C COPYRIGHT 2016

HOFFMANN ARCHITECTURAL INC.
THIS DOCUMENT IS ISSUED AS AN INSTRUMENT OF SERVICE AND IS FOR THE PRODUCTION OF A SINGLE FACILITY AS NOTED IN THE SHEET TITLE. OWNERSHIP OF THIS DOCUMENT IS RETAINED BY HOFFMANN ARCHITECTURAL INC.. UNAUTHORIZED REPRODUCTION IS PROTECTED BY THE COPYRIGHT LAWS OF THE UNITED STATES AND IS HEREWITH PROHIBITED.

DATE: **10/28/16**

REVISIONS:

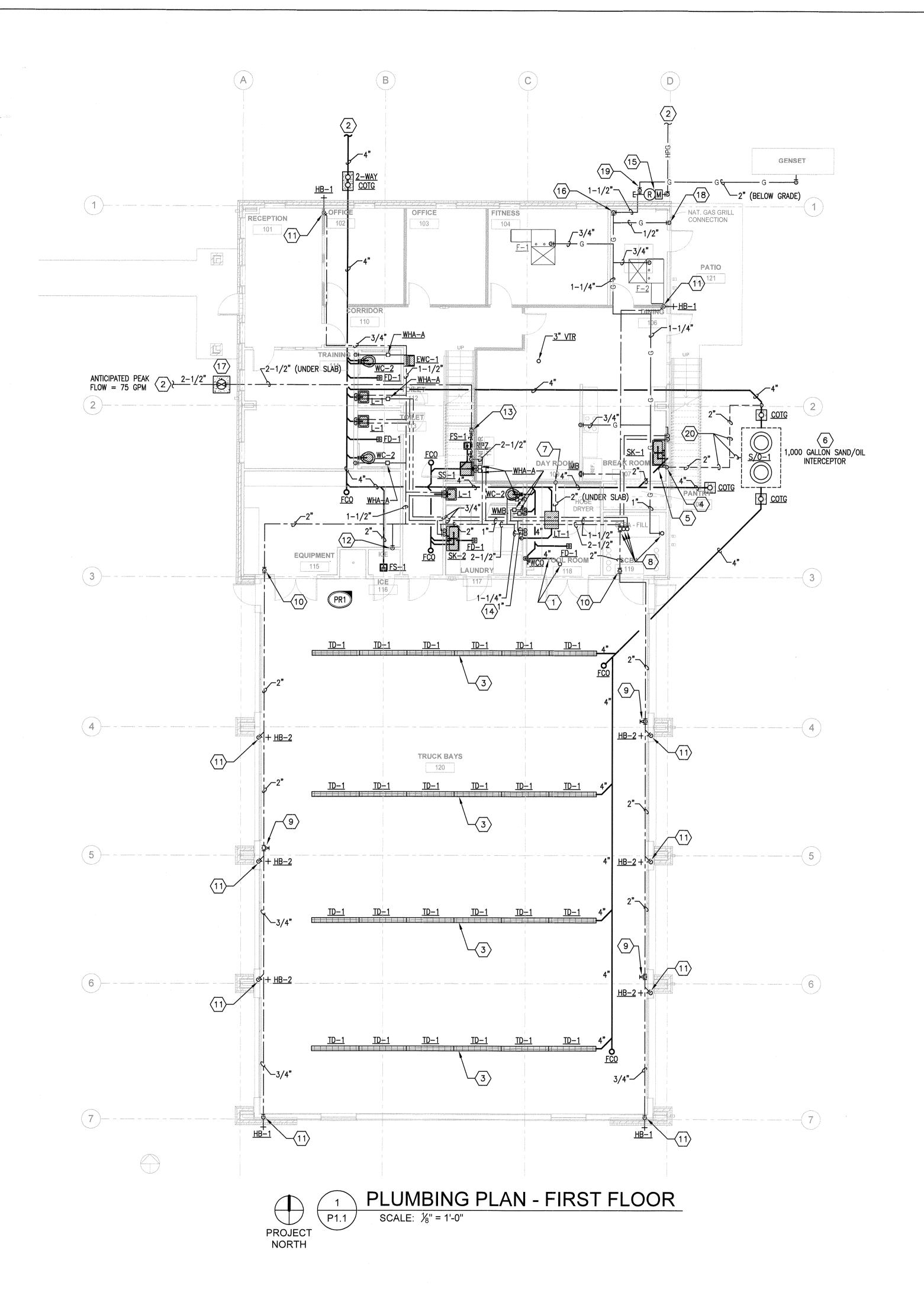
CONTRACTOR MUST CHECK
AND VERIFY ALL DIMENSIONS
AND CONDITIONS ON SITE
PRIOR TO ORDERING
MATERIALS OR CONSTRUCTION.

DRAWN BY:

PLUMBING GENERAL NOTES AND SCHEDULE

SHEET:

P0.1



KEYED NOTES - DENOTED BY

NOTE: REFER TO THE ARCHITECTURAL PLANS FOR ALL ROOM NAMES AND NUMBERS.

- 4" SEWER FROM ABOVE. OFFSET ABOVE CEILING AS REQUIRED TO DROP IN THE
- REFER TO THE SITE UTILITY PLAN FOR CONTINUATION.
- PROVIDE A MODULAR FLOW-THROUGH TRENCH DRAIN SYSTEM AS SCHEDULED. SECTIONS SHALL BE MANUFACTURED WITH BOTTOMS CONTINUOUSLY PITCHED TO DRAIN TO THE EFFLUENT PIPE.
- RISE WITH THE 2" TANK VENT UP IN THE WALL TO ABOVE THE CEILING AND CONTINUE AS SHOWN.
- CONNECT TO THE PLUMBING VENT SYSTEM IN THIS VICINITY. REFER TO THE PLUMBING RISER.
- VERIFY THE CAPACITY OF THE OIL/SAND INTERCEPTOR WITH THE LOCAL WASTEWATER UTILITY PRIOR TO BID.
- RISE FROM BELOW SLAB IN THE WALL WITH A 2" TANK VENT AND CONTINUE AS INDICATED IN THE PLUMBING RISERS.
- 8. 2" CW, 1-1/2" HW, 3/4" HWR AND 1" NG UP THROUGH THE FLOOR.
- DROP ALONG THE WALL WITH A 2" CW LINE AND TRANSITION AS REQUIRED TO CONNECT TO A 2-1/2" HOSE FILL VALVE AT 48" A.F.F. VALVE SHALL BE EQUAL TO A DIXON #WDGV251F, RESILIENT WEDGE GATE VALVE, FORGED BRASS, WHEEL HANDLE, 2-1/2" MALE NST OUTLET WITH DUST CAP. VERIFY EXACT VALVE TYPE AND HOSE CONNECTION TYPE WITH OWNER PRIOR TO SUBMITTING FOR APPROVAL. PIPE RISER SHALL BE STRAPPED SECURELY TO THE WALL AT 5' O.C.
- RISE TO MAX. HEIGHT AND CONTINUE IN THE TRUCK BAYS AS CLOSE TO THE BUILDING STRUCTURE AS POSSIBLE.
- 11. DROP TO A HOSE BIBB AT 24" A.F.G. (EXTERIOR) OR A.F.F. (INTERIOR).
- 12. DROP WITH A 1/2" CW LINE TO THE ICE MAKER AND CONNECT COMPLETE AND OPERATIVE IN STRICT ACCORDANCE WITH THE ICE MAKER MANUFACTURER'S INSTRUCTIONS INCLUDING FILTER.
- RISE FROM BELOW SLAB BENEATH THE STAIRS WITH THE 2-1/2" CW LINE TO AN RPZ. RISE TO ABOVE THE FIRST FLOOR CEILING AND CONTINUE AS SHOWN.
- PROVIDE WATER HAMMER ARRESTORS WHA-B ON THE HOT AND COLD WATER SERVICE LINES TO THE WASHER/EXTRACTOR.
- COORDINATE WITH THE LOCAL GAS UTILITY TO EXTEND NATURAL GAS SERVICE TO A NEW REGULATOR/METER ASSEMBLY AT THE BUILDING (HPG TO OZ.). THE TOTAL CONNECTED LOAD = 1931.0 MBH. THE REGULATOR SHALL BE LOCATED AS CLOSE TO THE CORNER OF THE BUILDING AS POSSIBLE. PROVIDE A 2-1/2" HEADER DOWNSTREAM OF THE REGULATOR.
- 16. RISE WITH A 1-1/2" LOW PRESSURE NATURAL GAS LINE UP IN THE MECHANICAL ROOM TO MAX. HEIGHT AND CONTINUE AS SHOWN.
- 17. PROVIDE A DOMESTIC WATER SHUT-OFF VALVE IN A CAST-IRON VALVE BOX WITH A CAST-IRON DROP COVER MARKED "WATER".
- 18. DROP IN THE WALL WITH A 1/2" NATURAL GAS LINE AND OUT TO A GAS VALVE AT 24" A.F.F. FOR CONNECTION TO A FUTURE GAS GRILL (BY OWNER). COORDINATE EXACT VALVE REQUIREMENTS WITH THE OWNER PRIOR TO ROUGH-IN.
- 19. DROP TO BELOW GRADE OFF THE GAS HEADER WITH A 2" GAS LINE AND CONTINUE TO THE GENSET. CONNECT TO THE GENSET COMPLETE AND OPERATIVE IN STRICT ACCORDANCE WITH THE GENSET MANUFACTURER'S INSTRUCTIONS.
- 20. ROUTE TANK VENTS BELOW GRADE AS SHOWN.

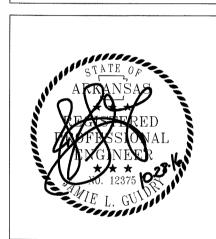
WE OF AUX · NATIONAL · ENGINEERING: SERVICES, PLLC 飞. No. 2259 . ·



CONWAY OFFICE 813 OAK STREET, SUITE 10A #337 CONWAY, AR 72032 LITTLE ROCK OFFICE 3801 WOODLAND HEIGHTS ROAD, SUITE 125-LITTLE ROCK, AR 72212 PH: 501.235.3270 FAX: 501.235.3272 WWW.NES-ENG.COM

A PROJECT FOR:

Searcy, Arkansas



COPYRIGHT 2016 HOFFMANN ARCHITECTURAL INC. THIS DOCUMENT IS ISSUED AS AN INSTRUMENT OF SERVICE AND IS FOR THE PRODUCTION OF A SINGLE FACILITY AS NOTED IN THE SHEET TITLE. OWNERSHIP OF THIS DOCUMENT IS RETAINED BY HOFFMANN ARCHITECTURAL INC.. UNAUTHORIZED REPRODUCTION IS PROTECTED BY THE COPYRIGHT LAWS OF THE UNITED STATES AND IS HEREWITH PROHIBITED.

DATE: 10/28/16

REVISIONS:

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON SITE PRIOR TO ORDERING MATERIALS OR CONSTRUCTION.

DRAWN BY:

JLG

PLUMBING PLAN -FIRST FLOOR

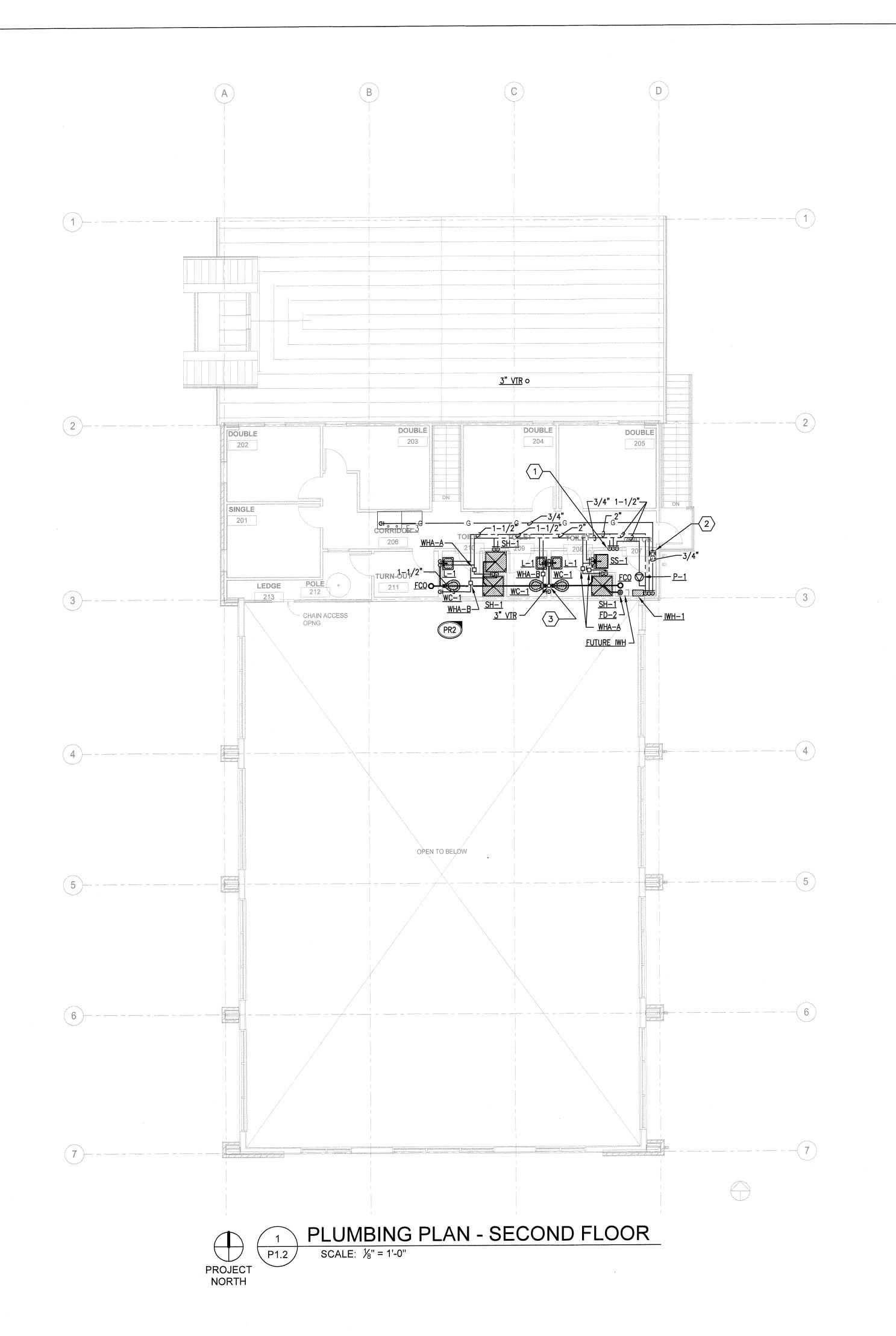
SHEET:

WATER LINE SIZES

UNLESS NOTED OTHERWISE ON THE PLANS OR IN THE PLUMBING FIXTURE SCHEDULE, ALL CW, HW, AND HWR LINE SIZES ARE 3/4"

WATER HAMMER ARRESTORS

PROVIDE WATER HAMMER ARRESTORS AS SCHEDULED ON THE WATER SUPPLIES TO SERVING FIXTURES AND EQUIPMENT WITH FAST-CLOSING VALVES INCLUDING, BUT NOT LIMITED TO WATER CLOSETS, DISHWASHERS, ICE MAKERS, ETC. WATER HAMMER ARRESTORS SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION.



KEYED NOTES - DENOTED BY (#)

NOTE: REFER TO THE ARCHITECTURAL PLANS FOR ALL ROOM NAMES AND NUMBERS.

2" CW, 1--1/2" HW, AND 3/4" HWR UP IN THE WALL TO ABOVE THE CEILING. CONTINUE AS SHOWN.

1" NATURAL GAS UP IN THE CORNER OF THE ROOM TO ABOVE THE CEILING. CONTINUE AS SHOWN.

3. 4" SEWER DOWN. 3" VENT STACK UP.

NATIONAL ENGINEERING SERVICES, PLLC No. 2259

LITTLE ROCK OFFICE

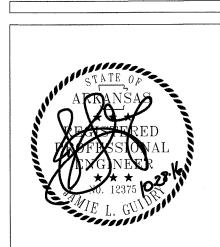
LITTLE ROCK, AR 72212

FAX: 501.235.3272 WWW.NES-ENG.COM Station

A PROJECT FOR:

CONWAY OFFICE 813 OAK STREET, SUITE 10A #337 CONWAY, AR 72032 3801 WOODLAND HEIGHTS ROAD, SUITE 125-D

Searcy, Arkansas



C COPYRIGHT 2016 HOFFMANN ARCHITECTURAL INC. THIS DOCUMENT IS ISSUED AS AN INSTRUMENT OF SERVICE AND IS FOR THE PRODUCTION OF A SINGLE FACILITY AS NOTED IN THE SHEET TITLE. OWNERSHIP OF THIS DOCUMENT IS RETAINED
BY HOFFMANN ARCHITECTURAL
INC.. UNAUTHORIZED
REPRODUCTION IS PROTECTED
BY THE COPYRIGHT LAWS OF THE
UNITED STATES AND IS
HEREWITH PROHIBITED.

DATE: 10/28/16

REVISIONS:

CONTRACTOR MUST CHECK
AND VERIFY ALL DIMENSIONS
AND CONDITIONS ON SITE
PRIOR TO ORDERING
MATERIALS OR CONSTRUCTION.

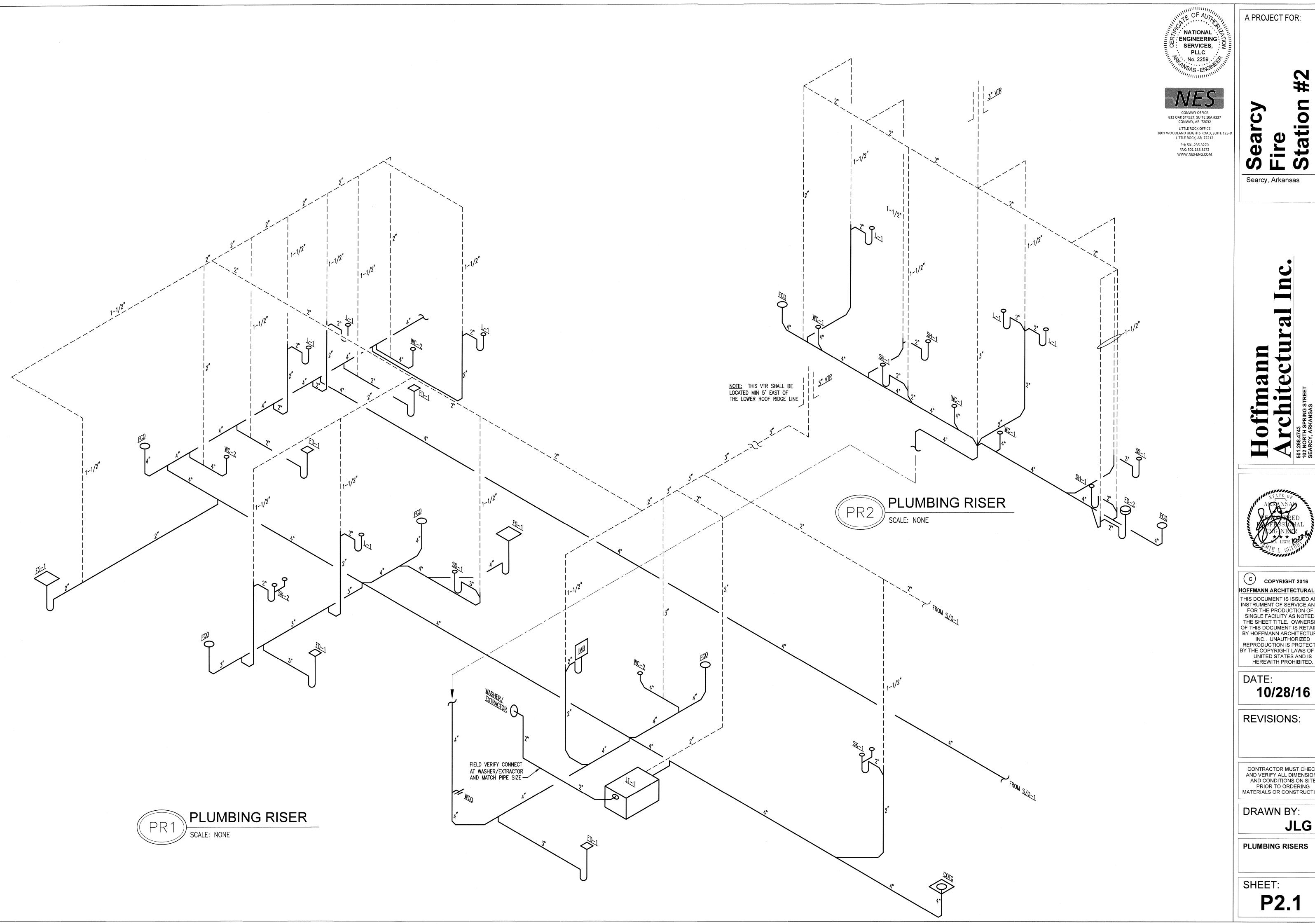
DRAWN BY:

JLG

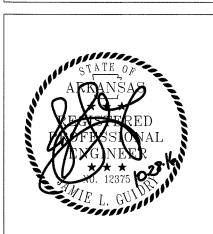
PLUMBING PLAN -SECOND FLOOR

SHEET:

P1.2



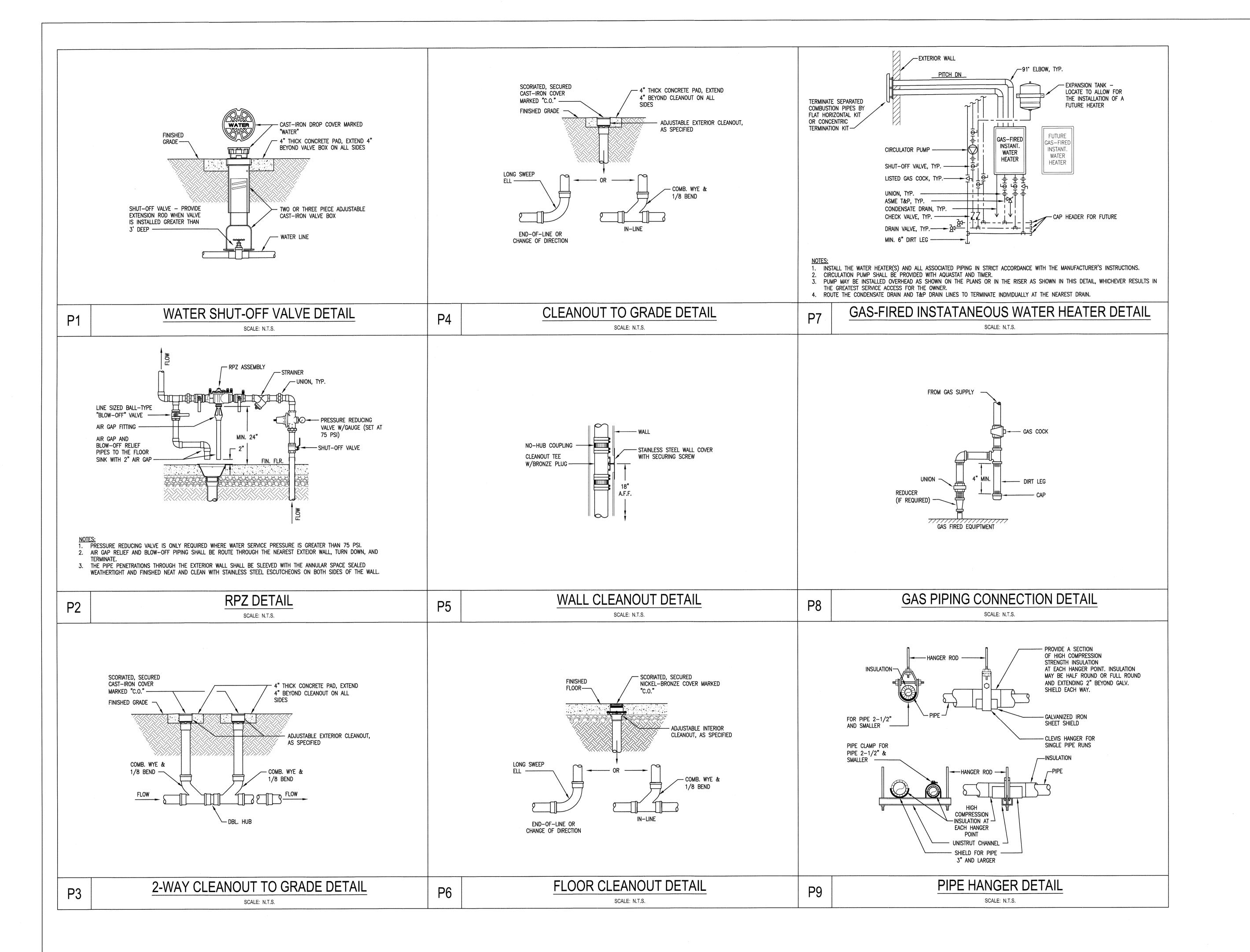
A PROJECT FOR:



C COPYRIGHT 2016 HOFFMANN ARCHITECTURAL INC. THIS DOCUMENT IS ISSUED AS AN INSTRUMENT OF SERVICE AND IS FOR THE PRODUCTION OF A SINGLE FACILITY AS NOTED IN THE SHEET TITLE. OWNERSHIP OF THIS DOCUMENT IS RETAINED BY HOFFMANN ARCHITECTURAL INC.. UNAUTHORIZED REPRODUCTION IS PROTECTED BY THE COPYRIGHT LAWS OF THE UNITED STATES AND IS HEREWITH PROHIBITED.

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON SITE PRIOR TO ORDERING MATERIALS OR CONSTRUCTION.

JLG





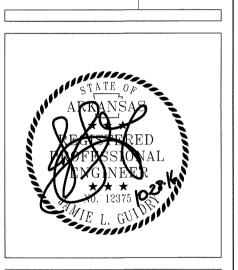


FAX: 501.235.3272 WWW.NES-ENG.COM

A PROJECT FOR:

Searcy, Arkansas

Hoffmann Architectural Inc.



C COPYRIGHT 2016

HOFFMANN ARCHITECTURAL INC.

THIS DOCUMENT IS ISSUED AS AN INSTRUMENT OF SERVICE AND IS FOR THE PRODUCTION OF A SINGLE FACILITY AS NOTED IN THE SHEET TITLE. OWNERSHIP OF THIS DOCUMENT IS RETAINED BY HOFFMANN ARCHITECTURAL INC.. UNAUTHORIZED REPRODUCTION IS PROTECTED BY THE COPYRIGHT LAWS OF THE UNITED STATES AND IS

DATE: 10/28/16

HEREWITH PROHIBITED.

REVISIONS:

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON SITE PRIOR TO ORDERING MATERIALS OR CONSTRUCTION.

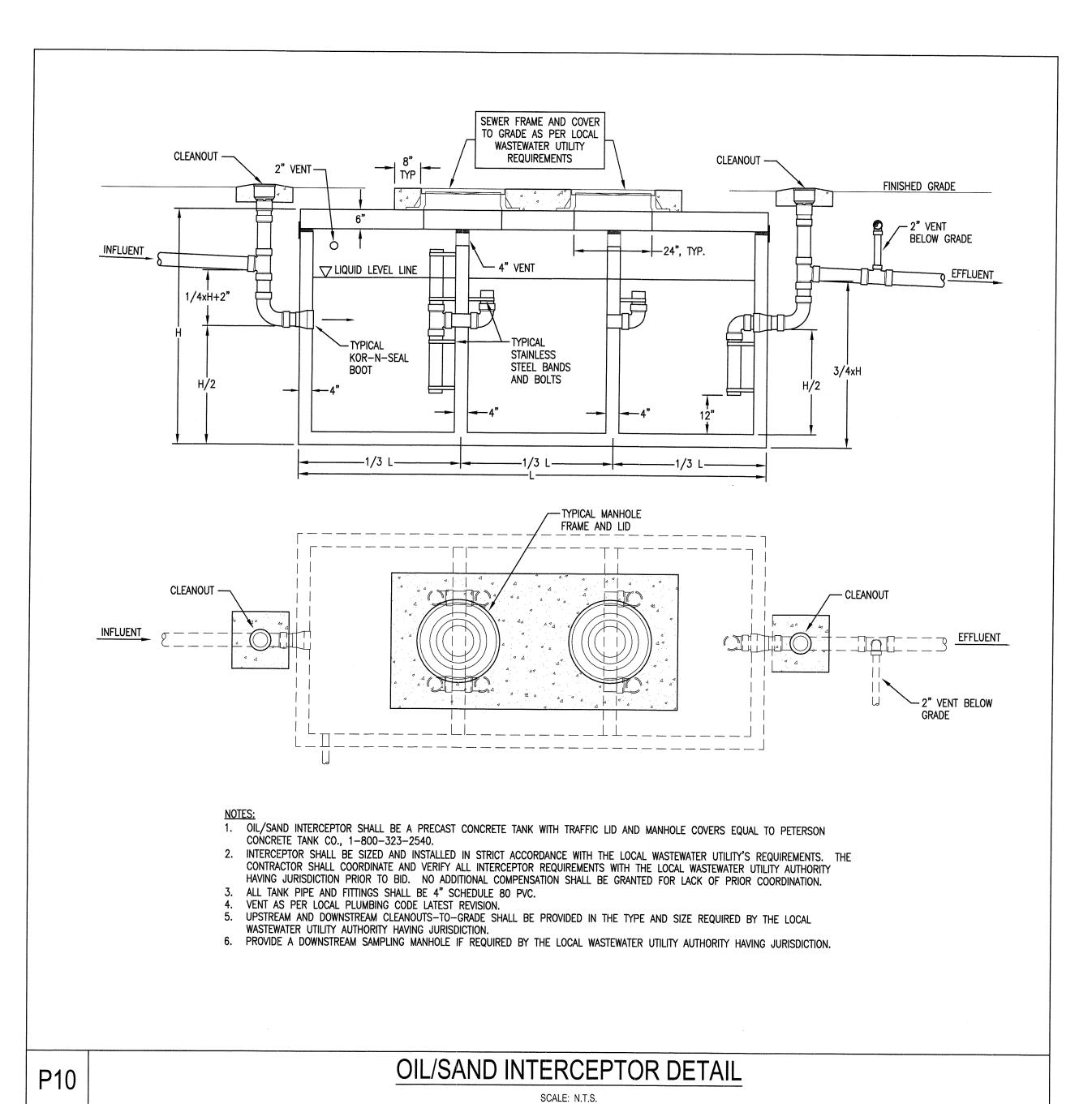
DRAWN BY:

JLG

PLUMBING DETAILS

SHEET:

P3.1



NATIONAL BY SERVICES, PLLC
No. 2259

CONWAY OFFICE
813 OAK STREET, SUITE 10A #337
CONWAY, AR 72032

LITTLE ROCK OFFICE

3801 WOODLAND HEIGHTS ROAD, SUITE 125-D
LITTLE ROCK, AR 72212

PH: 501.235.3270

FAX: 501.235.3272

WWW. NES-ENG. COM

A PROJECT FOR:

Searcy Fire Station #2

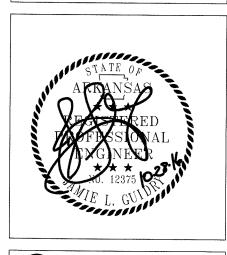
Searcy, Arkansas

LOITMann

L'Ehitectural Inc.

ORTH SPRING STREET

CCY, ARKANSAS



C COPYRIGHT 2016

HOFFMANN ARCHITECTURAL INC.

THIS DOCUMENT IS ISSUED AS AN INSTRUMENT OF SERVICE AND IS FOR THE PRODUCTION OF A SINGLE FACILITY AS NOTED IN THE SHEET TITLE. OWNERSHIP OF THIS DOCUMENT IS RETAINED BY HOFFMANN ARCHITECTURAL INC.. UNAUTHORIZED REPRODUCTION IS PROTECTED BY THE COPYRIGHT LAWS OF THE UNITED STATES AND IS HEREWITH PROHIBITED.

DATE: **10/28/16**

REVISIONS:

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON SITE PRIOR TO ORDERING MATERIALS OR CONSTRUCTION.

DRAWN BY:

JLO

PLUMBING DETAILS

SHEET:

P3.2

HVAC GENERAL NOTES

- THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT COMPLETE HVAC SYSTEMS BE PROVIDED WITH ALL NECESSARY EQUIPMENT, APPURTENANCES AND CONTROLS COMPLETELY COORDINATED WITH ALL DISCIPLINES. ALL PARAMETERS GIVEN IN THESE DOCUMENTS SHALL BE STRICTLY CONFORMED TO. ANY ITEMS AND LABOR REQUIRED FOR A COMPLETE HVAC SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS, LOCAL AUTHORITIES AND THESE CONTRACT DOCUMENTS SHALL BE FURNISHED WITHOUT INCURRING ANY ADDITIONAL COST TO THE OWNER. THE WORD "PROVIDE" SHALL MEAN FURNISH AND INSTALL. CAREFULLY REVIEW ALL CONTRACT DOCUMENTS AND THE DESIGN OF OTHER TRADES BEFORE PREPARING SHOP DRAWINGS. THE "I WAS HERE FIRST" RULE DOES NOT QUALIFY AS COORDINATION.
- ANY CONFLICTS OF WORK SHALL BE BROUGHT TO THE ARCHITECT'S/ENGINEER'S ATTENTION BY THE CONTRACTOR PRIOR TO PURCHASE OF EQUIPMENT OR COMMENCEMENT OF WORK.
- C. COORDINATE ALL WORK WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL TRADES. PIPE ROUTING SHOWN IS DIAGRAMMATIC. PROVIDE ALL OFFSETS, ETC. TO AVOID INTERFERENCE'S WITH EQUIPMENT. PIPING, DUCT WORK, LIGHTS, CONDUIT. STRUCTURAL MEMBERS, ETC. ALL INVERTS SHALL BE VERIFIED IMMEDIATELY FOLLOWING AWARD OF CONTRACT. ALL INVERTS SHALL BE COORDINATED WITH STRUCTURAL FOOTINGS.
- D. THE WORK SPECIFIED HEREIN SHALL INCLUDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, SUPPLIES AND SUPERVISION REQUIRED TO INSTALL AND PLACE IN OPERATION THE MECHANICAL SYSTEMS AND APPURTENANCES SPECIFIED HEREIN AND/OR INDICATED ON THE DRAWINGS OR REASONABLY IMPLIED AS NECESSARY FOR COMPLETION OF THE VARIOUS SYSTEMS. ALL WORK SHALL BE COMPLETED IN A NEAT AND CLEAN MANNER IN ACCORDANCE WITH CURRENT INDUSTRY STANDARDS.
- E. ALL WORK SPECIFIED HEREIN SHALL BE PERFORMED BY PROPERLY LICENSED, TRAINED, AND EXPERIENCED TRADESMEN. THE CONTRACTOR SHALL PROVIDE A FIELD SUPERVISOR WITH THE AUTHORITY AND EXPERIENCE REQUIRED TO INSTRUCT THE WORK, MAKE JOB DECISIONS, AND ACT ON BEHALF OF THE CONTRACTOR IN MATTERS PERTAINING TO THE CONTRACT DOCUMENTS.
- F. THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL EXISTING CONDITIONS PRIOR TO BID.
- G. THE CONTRACTOR SHALL REMOVE ALL RESPECTIVE CONSTRUCTION WASTE AND DEBRIS FROM THE SITE AND SHALL BE RESPONSIBLE FOR THE LAWFUL DISCARD OF SUCH WASTE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS. THE COMPLETED WORK AND THE ADJACENT AFFECTED AREAS SHALL BE THOROUGHLY CLEANED TO THE SATISFACTION ON THE OWNER, ARCHITECT, AND ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, PATCHING, AND PAINTING REQUIRED BY THE RESPECTIVE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SATISFACTORILY REPAIRING EXCESSIVE, UNNECESSARY PENETRATIONS OR OVERSIZED PENETRATIONS THROUGH CONSTRUCTION. IF THE ARCHITECT/ENGINEER DEEMS NECESSARY, ANY CONSTRUCTION DAMAGED FROM CUTTING OR PENETRATION ACTIVITIES SHALL BE REMOVED AND REPLACED AT NO ADDITIONAL COST TO THE OWNER. THERE SHALL BE NO CUTTING OR PENETRATING OF CONSTRUCTION THAT WILL COMPROMISE THE STRUCTURAL INTEGRITY OF THE BUILDING SYSTEM. IF THE CONTRACTOR DEEMS IT NECESSARY TO ALTER, CUT, OR PENETRATE A STRUCTURAL MEMBER, EXPRESS PERMISSION SHALL BE GIVEN BY THE STRUCTURAL ENGINEER PRIOR TO PROCEEDING. IT IS PERMISSIBLE FOR BEAMS TO BE PENETRATED WITH SMALL SCREWS WITHOUT PRIOR APPROVAL.
- THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS AS REQUIRED TO CAREFULLY COORDINATE THE REQUIRED MOUNTING HEIGHTS AND LOCATIONS OF ALL DIFFUSERS, REGISTERS, AND GRILLES RELATIVE THE VARIOUS CEILING AND WALL CONDITIONS/TYPES THROUGHOUT THE BUILDING.
- ALL EQUIPMENT INSTALLED AND CONCEALED ABOVE GYPSUM BOARD CEILINGS SHALL HAVE ACCESS DOORS FOR FULL SERVICE AND REMOVAL. ACCESS DOORS SHALL HAVE CONCEALED HINGES AND SHALL BE LOCKABLE. COORDINATE THE EXACT AND FINAL LOCATION OF THE CONCEALED EQUIPMENT AND THE RESPECTIVE ACCESS DOORS WITH THE ARCHITECT, ENGINEER AND OWNER PRIOR TO ROUGH-IN OF ANY AIR HANDLING SYSTEMS. THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL BE RESPONSIBLE FOR AND RELOCATION REQUIRED DUE TO FAILURE TO COORDINATE THE FINAL LOCATIONS OF CONCEALED EQUIPMENT.
- K. ALL OUTDOOR EQUIPMENT UNDER 20-TONS SHALL BE INSTALLED ON A 4" THICK CONCRETE MECHANICAL WITH 6x6 W.W.F. ALL OUTDOOR EQUIPMENT OVER 20-TONS SHALL BE INSTALLED ON A 6" THICK CONCRETE MECHANICAL PAD WITH #4 REBAR AT 12" O.C.E.W. MECHANICAL PADS SHALL HAVE 3/4" CHAMFERED EDGES, BE SLOPED AWAY FROM BUILDINGS MIN. 1% AND EXTEND MIN. 6" BEYOND THE EDGES OF THE MECHANICAL UNITS. PADS SHALL ALSO BE SIZED TO MAINTAIN MIN. REQUIRED SERVICE CLEARANCE SEPARATION BETWEEN MECHANICAL UNITS AND SIZED TO MAINTAIN SERVICE CLEARANCES BETWEEN THE MECHANICAL UNIT(S) AND ADJACENT BUILDINGS, SCREEN WALLS AND OTHER OBSTRUCTIONS.
- MAINTAIN MANUFACTURER'S REQUIRED MINIMUM SERVICE CLEARANCE (BUT NO LESS THAN 30") ON THE SERVICE/CONTROL/DISCONNECT SIDE OF ALL FLOOR MOUNTED AND OVERHEAD MOUNTED EQUIPMENT. FINAL EQUIPMENT LOCATIONS SHALL MAXIMIZE THE AVAILABLE SERVICE CLEARANCE TO ALL EQUIPMENT.
- M. PROVIDE REMOTE BOWDEN CABLE CONTROLS EQUAL TO YOUNG REGULATOR 270 SERIES FOR ALL DAMPERS CONCEALED ABOVE GYPSUM BOARD CEILINGS. THE EXACT LOCATION OF THE ACTUATOR CONTROL SHALL BE DETERMINED BY THE ARCHITECT, OWNER AND ENGINEER PRIOR TO ROUGH-IN.
- N. REFER TO THE ARCHITECTURAL PLANS FOR ALL ROOM NAMES AND NUMBERS.
- FIRE/SMOKE DETECTION AND RATED OPENING PROTECTIVES:
 - SMOKE DETECTORS SHALL BE INSTALLED IN RETURN AIR SYSTEMS WITH A DESIGN CAPACITY OF 2,000 CFM OR GREATER. DUCT SMOKE DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 72 AND SHALL BE CONNECTED TO A FIRE ALARM SYSTEM. ACTUATION OF THE DUCT SMOKE DETECTOR SHALL SHUT-DOWN THE AIR DISTRIBUTION SYSTEM AND ACTIVATE A VISIBLE AND AUDIBLE SUPERVISORY SIGNAL IN A NORMALLY ATTENDED LOCATION. IN OCCUPANCIES WHERE A FIRE ALARM SYSTEM IS NOT REQUIRED, ACTUATION OF THE DUCT SMOKE DETECTOR SHALL SHUT DOWN THE AIR DISTRIBUTION SYSTEM AND ACTIVATE A STAND-ALONE VISIBLE AND AUDIBLE SIGNAL IN AN APPROVED LOCATION. THE STAND-ALONE SIGNAL DEVICE SHALL BE LABELED "AIR DUCT DETECTOR TROUBLE". IN SYSTEMS THAT ARE INCAPABLE OF SPREADING SMOKE BEYOND THE ENCLOSING WALLS, FLOORS ND CEILINGS OF THE ROOM OR SPACE IN WHICH THE SMOKE IS GENERATED, SMOKE DETECTORS SHALL NOT BE REQUIRED.
- 2. DUCT SMOKE DETECTORS SHALL BE LOCATED AS FOLLOWS: (A) AIR HANDLING UNITS - LOCATE THE SMOKE DETECTOR IN THE RETURN AIR DUCT DOWNSTREAM OF THE LAST RETURN AIR BRANCH DUCT CONNECTION AND UPSTREAM OF ANY FRESH AIR DUCT CONNECTION, FILTERS, EXHAUST AIR CONNECTION, OR DECONTAMINATION EQUIPMENT AND APPLIANCES.
- PACKAGED HVAC UNITS LOCATE THE SMOKE DETECTOR EITHER IN THE RETURN AIR DUCT AS DESCRIBED ABOVE OR IN THE RETURN AIR SECTION OF THE UNIT CASING AS DIRECTED BY THE PACKAGED UNIT MANUFACTURER.
- ALL PENETRATIONS THROUGH FIRE AND/OR SMOKE RATED CONSTRUCTION SHALL BE SEALED UTILIZING U.L. LISTED MATERIALS AND DESIGNS TO MAINTAIN THE RATING. ALL FIRE, SMOKE AND COMBINATION DAMPERS SHALL BE U.L. LISTED, APPROPRIATE FOR LISTED INSTALLATION TYPE, AND INSTALLED IN STRICT ACCORDANCE WITH THE DAMPER MANUFACTURER'S INSTRUCTIONS AND THE DAMPER'S LISTING. DUCT MOUNTED ACCESS DOORS SHALL BE PROVIDED AT ALL FIRE DAMPERS NOT LOCATED AT AIR DEVICES. ACCESS DOORS SHALL BE SIZED AS APPROPRIATE FOR FULL SERVICE ACCESS TO DAMPER FUSIBLE LINKS, MOTORIZED ACTUATORS, ETC.
- P. ALL DUCT SIZES ARE METAL-METAL DIMENSIONS, EXPRESSED IN INCHES. DOUBLE-WALL SPIRAL DUCT SIZES (WHEN SHOWN) INDICATE THE INNER WALL DIAMETER.
- Q. ALL CHANGES IN DUCT DIRECTION 45-DEGREES OR GREATER SHALL BE FULL RADIUS TURNS WITH AN INSIDE RADIUS EQUAL TO THE DUCT WIDTH. IN RECTANGULAR DUCTWORK, WHERE SPACE CONSTRAINTS DO NOT PERMIT RADIUS TURNS, OR WHERE THE CONTRACT DOCUMENTS REFLECT OTHERWISE, MITERED ELBOWS WITH SINGLE THICKNESS TURNING VANES SHALL BE PROVIDED. RECTANGULAR 90'S WITH A RADIUS HEEL AND A MITERED THROAT ARE NOT ACCEPTABLE.
- R. PROVIDE MINIMUM 3/4" GAP BENEATH THE DOOR FOR R.A. IN SPACES WITH 125 CFM S.A. OR LESS AND WHERE THERE IS NO DEDICATED R.A. DUCT OR TRANSFER DUCT.
- S. ALL CEILING MOUNTED AIR DEVICES INSTALLED IN LAY-IN CEILINGS SHALL BE POSITIONED IN THE FULL GRID SPACE NEAREST TO THE LOCATION SHOWN ON THE PLANS.
- T. ALL CONDENSATE DRAINS SERVING COOLING COILS SHALL BE TRAPPED AS RECOMMENDED BY THE COIL MANUFACTURER. INDIVIDUAL CONDENSATE DRAIN TRAPS AND LINES SHALL BE FULL SIZE OF CONNECTION TO COIL, BUT IN NO CASE SMALLER THAN 3/4".
- U. ALL MECHANICAL PIPING SYSTEMS SHALL BE PROTECTED AGAINST DISSIMILAR METAL GALVANIC CORROSION BY SEPARATION, INSULATION, OR ENGINEERED CONNECTIONS SUCH AS DIELECTRIC UNIONS.
- V. THE CONTRACTOR SHALL COORDINATE THE EXACT REFRIGERANT LINE SET LENGTH(S) WITH THE EQUIPMENT MANUFACTURER. THE EQUIPMENT MANUFACTURER SHALL BE RESPONSIBLE FOR ALL REFRIGERANT LINE SET SIZING AND RECOMMENDING ANY ADDITIONAL PIPING APPURTENANCES REQUIRED FOR LONG LINE SET APPLICATIONS TO RESULT IN A COMPLETE, OPERATIVE, AND WARRANTABLE INSTALLATION.
- W. WHERE MULTIPLE DX MECHANICAL UNITS ARE LOCATED ON A COMMON PAD, THE REFRIGERANT PIPING SHALL BE GROUPED TOGETHER ON COMMON PIPE STANDS AND SUPPORTS, ROUTED PERPENDICULAR AND PARALLEL WITH BUILDING LINES, AND SHALL PENETRATE EXTERIOR WALLS IN COMMON LOCATIONS. ONLY WHERE SPECIFICALLY INDICATED ON THE PLANS SHALL PIPES FROM EQUIPMENT LOCATED ON A COMMON MECHANICAL PAD ENTER BUILDINGS IN DIFFERING LOCATIONS.
- PROVIDE ENGRAVED PLASTIC LAMINATE EQUIPMENT TAGS ON ALL HVAC UNITS. NOMENCLATURE SHALL BE PROPOSED BY HVAC CONTRACTOR AND APPROVED BY OWNER PRIOR TO FABRICATION.
- HVAC CONTROL WIRING SHALL BE MINIMUM 18 GAUGE MULTI-STRAND PLENUM-RATED WIRING. ALL WIRING LOCATED IN, ABOVE OR BEHIND INACCESSIBLE CONSTRUCTION SHALL BE INSTALLED IN 3/4" EMT CONDUIT. ALL WIRING SHALL BE ROUTED CONTINUOUS FROM THE CONTROL DEVICE TO THE CONTROLLER OR INTERFACE PANEL. SPLICE SHALL NOT BE PERMITTED. WIRING CONNECTIONS SHALL EITHER BE CRIMPED OR SOLDERED.
- Z. THE MECHANICAL CONTRACTOR SHALL PROVIDE TRAINING TO THE OWNER ON ALL HVAC CONTROL SYSTEMS.

	GAS FIRED FURNACE SCHEDULE																
GENERAL FAN DX COOLING COIL HEATING ELECTRICAL																	
MARK	MANUF'R./MODEL	MANUF'R./MODEL SERVES DRIVE S.A. (CFM) CFM) ESP FAN HP PERFORMANCE FUEL INPUT (MBTUH) OUTPUT (MBTUH) AFUE VOLTAGE FLA		MCA	BKR	REMARKS											
F-1	CARRIER 58MXB-060-16	FF WEST	DIRECT	1,400	200	0.50"	1/2	MATCH CONDENSING UNIT	NAT. GAS	60.0	56.0	93%	120/1/60	9.5	12.8	15A	SEE NOTES
F-2	CARRIER 58MXB-100-20	FF EAST	DIRECT	2,000	210	0.50"	3/4	MATCH CONDENSING UNIT	NAT. GAS	100.0	94.0	93%	120/1/60	14.8	19.3	20A	SEE NOTES
F-3	CARRIER 58MXB-060-12	SF	DIRECT	1,000	110	0.50"	1/3	MATCH CONDENSING UNIT	NAT. GAS	60.0	56.0	93%	120/1/60	7.1	9.8	15A	SEE NOTES
OR API	PROVED EQUAL IN TRANE OR	LENNOX										***************************************		h		<u> </u>	

. 1" MERV-8 PLEATED MEDIA FILTERS

. MANUFACTURER'S RECOMMENDED CONCENTRIC COMBUSTION INTAKE/EXHAUST FITTING

3. DX COOLING COIL TO MATCH CONDENSING UNIT 4. FURNACE, COOLING COIL, AND CONDENSING UNIT SHALL ALL BE THE PRODUCTS OF THE SAME MANUFACTURER

5. PROVIDE DIGITAL PROGRAMMABLE THERMOSTAT

6. 1-YEAR PARTS AND LABOR/10-YEAR HEAT EXCHANGER WARRANTY

CONDENSING UNIT SCHEDULE												
GENERAL												
MANUF'R./MODEL	MANUF'R./MODEL SERVES		SENS. CAP. (BTUH)	EDB (F)	EWB (F)	AMB (F)	VOLTAGE	FLA	МСА	BKR	SEER	REMARKS
CARRIER 24ACB342	FF WEST	41,000	31,530	80.0	67.0	95.0	208/3/60	14.7	18.1	30A	13.0	SEE NOTES
CARRIER 24ACB360	FF EAST	57,000	44,120	80.0	67.0	95.0	208/3/60	18.9	23.3	40A	13.0	SFF NOTES

27,800 | 21,890 | 80.0 | 67.0 | 95.0 | 208/3/60 | 10.6 | 12.9 | 20A | 13.0 | SEE NOTES

* OR APPROVED EQUAL IN TRANE, YORK OR LENNOX

SCROLL COMPRESSOR

MARK

CU-1

CU-2

. CRANKCASE HEATER

. HIGH AND LOW PRESSURE SWITCHES

CU-3 | CARRIER 24ACB330 |

4. SOLID STATE TIME OFF DEVICE 5. FIELD INSTALLED FILTER/DRIER AND SITE GLASS

3. LIQUID AND SUCTION LINE SERVICE VALVES

7. LOUVERED HAIL GUARDS LOW AMBIENT CONTROL TO 30 DEGREES F

9. REFRIGERANT SHALL BE R-410A

10. 1-YEAR UNIT PARTS AND LABOR/5-YEAR COMPRESSOR WARRANTY

SF

11. PROVIDE NEOPRENE AND CORK VIBRATION ISOLATORS AT ALL FOUR CORNERS EQUAL TO KINETICS #NPC.

				GAS	S FI	RED	FL	JRNACE SCHE	DULE	•							
	GENERAL				FAN			DX COOLING COIL		HEATII	NG .		ELE	CTRIC	٩L		
K	MANUF'R./MODEL	SERVES	DRIVE	S.A. (CFM)	0.A. (CFM)	ESP	FAN HP	PERFORMANCE	FUEL	INPUT (MBTUH)	OUTPUT (MBTUH)	AFUE	VOLTAGE	FLA	MCA	BKR	REMARKS
1	CARRIER 58MXB-060-16	FF WEST	DIRECT	1,400	200	0.50"	1/2	MATCH CONDENSING UNIT	NAT. GAS	60.0	56.0	93%	120/1/60	9.5	12.8	15A	SEE NOTES
2	CARRIER 58MXB-100-20	FF EAST	DIRECT	2,000	210	0.50"	3/4	MATCH CONDENSING UNIT	NAT. GAS	100.0	94.0	93%	120/1/60	14.8	19.3	20A	SEE NOTES
3	CARRIER 58MXB-060-12	SF	DIRECT	1,000	110	0.50"	1/3	MATCH CONDENSING UNIT	NAT. GAS	60.0	56.0	93%	120/1/60	7.1	9.8	15A	SEE NOTES
AP	PROVED EQUAL IN TRANE OR	LENNOX															

OF AUX NATIONAL : ENGINEERING: SERVICES, PLLC **%**. No. 2259. · NSAS-ENGIN



LITTLE ROCK OFFICE 3801 WOODI AND HEIGHTS ROAD SHITE 125-D LITTLE ROCK, AR 72212 PH: 501.235.3270

CONWAY, AR 72032

FAX: 501.235.3272 WWW.NES-ENG.CON

REMARKS

MOTOR

(HP)

1/20

160.0 | 80% | 120/1/60 | 1/20 | THERMOSTAT | 170# |

CONTROL

THERMOSTAT

WEIGHT

170#

ELECTRICAL

120/1/60

AFUE

80%

(MBTUH)

160.0

Searcy, Arkansas

SEE NOTES

* OR APPROVED EQUAL

TYPE

TRUCK BAYS | DIRECT | PROP. | 2,800 | NAT. GAS |

TRUCK BAYS | DIRECT | PROP. | 2,800 | NAT. GAS |

CFM

FUEL

1. ALUMINIZED STEEL HEAT EXCHANGER

MANUF'R/MODEL*

REZNOR F200

REZNOR F200

2. ALUMINIZED STEEL BURNER RACK WITH STAINLESS STEEL INSERT 3. SPARK IGNITED. INTERMITTENT SAFETY PILOT WITH ELECTRONIC FLAME SUPERVISION WITH TIMED LOCKOUT 4. SINGLE-STAGE COMBINATION GAS VALVE

DRIVE

5. INTERNAL OVERLOAD FAN MOTOR PROTECTION

6. FAN AND LIMIT SAFETY CONTROLS 7. BLOCKED VENT SHUT-OFF SAFETY

8. 24V CONTROL TRANSFORMER WITH 24V TERMINAL STRIP 9. INDIVIDUALLY ADJUSTABLE HORIZONTAL LOUVERS

10. FULL FAN SAFETY GUARD

MARK

UH-1

UH-2

I. BOTTOM BURNER ACCESS 12. HORIZONTAL OR VERTICAL VENT OUTLET

SERVES

13. 10-YEAR NON-PRORATED WARRANTY ON HEAT EXCHANGERS, BURNERS, AND FLUE COLLECTION BOX 114. 5-YEAR NON-PRORATED WARRANTY ON ALL MECHANICAL AND ELECTRICAL COMPONENTS

15. SUSPEND FROM ROOF STRUCTURE IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS

16. ROUTE A TYPE-B DOUBLE WALL FLUE VENT SIZED AS RECOMMENDED BY THE UNIT HEATER MANUFACTURER THROUGH THE ROOF AND TERMINATE AT A LISTED WEATHERCAP

GAS-FIRED UNIT HEATER SCHEDULE

200.0

200.0

		*	D	UCTLE	ESS SPLI	T-SYSTI	EM H	IEA ⁻	ΓΡυ	IMP :	SCHED	ULE						
	IN	DOOR UNIT		OUT	DOOR UNIT		C00	LING			HE	ATING			ELECTRIC	AL		1000
MARK	*MANUF'R./ MODEL	SERVES	FAN CFM (HI/MED/LO)	MARK	*MANUF'R./ MODEL	TOT. CAP. (BTUH)	EDB (F)	EWB (F)	AMB (F)	SEER	TOT. CAP. (BTUH)	AMB (F)	HSPF	VOLTAGE	FLA	MCA	BKR	REMARKS
DSFC-1	LG LSN122HE	SOUND BOOTH	330/280/230	DSHP-1	LG LSU122HE	11,500	80.0	67.0	95.0	13.0	11,500	47.0	7.8	120/1/60	10.5	15.0	20A	SEE NOTES

. SYSTEM SHALL BE COMPLETE WITH INDOOR AND OUTDOOR UNIT FROM SAME MANUFACTURER 2. INDOOR UNIT IS POWERED FROM OUTDOOR UNIT

5. LCD WIRELESS REMOTE CONTROLLER

4. AUTO RESTART 5. 24-HOUR ON/OFF TIMER

LOW AMBIENT TO 0—DEGREES F

7.	FIVE	YEAR	COMPRESSOR WARRANTY	
8.	TWO	YEAR	FUNCTIONAL PARTS WARRANTY	

			ΕX	(HAL	JST F	AN	SCH	IEDL	JLE			
	GENERAL		FAN							DEMARKS		
MARK	MANUF'R./MODEL	SERVES	DRIVE	TYPE	CFM	ESP	RPM	SONES	VOLTAGE	MOTOR	CONTROL	REMARKS
EF-1	GREENHECK SP-A90	FF - TOILET	DIRECT	CENT.	70	1/8"	795	0.3	120/1/60	29W	INTERLOCK W/LIGHTS	NOTES 1,2,3
EF-2	GREENHECK SP-A90	FF — TOILET	DIRECT	CENT.	70	1/8"	795	0.3	120/1/60	29W	INTERLOCK W/LIGHTS	NOTES 1,2,3
EF-3	GREENHECK SP-A290	FF - ICE MAKER CLO.	DIRECT	CENT.	250	1/8"	938	1.6	120/1/60	81W	CONTINUOUS OPERATION	NOTES 1,2,3
EF-4	GREENHECK SP-A90	FF — LAUNDRY TLT	DIRECT	CENT.	70	1/8"	795	0.3	120/1/60	29W	INTERLOCK W/LIGHTS	NOTES 1,2,3
EF-5	GREENHECK SP-A290	FF - TOOL ROOM	DIRECT	CENT.	250	1/8"	938	1.6	120/1/60	81W	THERMOSTAT	NOTES 1,2,3,4
EF-6	GREENHECK SP-A290	FF - SCBA	DIRECT	CENT.	250	1/8"	938	1.6	120/1/60	81W	CONTINUOUS OPERATION	NOTES 1,2,3
EF-7	GREENHECK SP-A125	SF - TOILET	DIRECT	CENT.	110	1/8"	1,014	0.8	120/1/60	53W	INTERLOCK W/LIGHTS	NOTES 1,2,3
EF-8	GREENHECK SP-A125	SF — TOILET	DIRECT	CENT.	110	1/8"	1,014	0.8	120/1/60	53W	INTERLOCK W/LIGHTS	NOTES 1,2,3
EF-9	GREENHECK SP-A125	SF — TOILET	DIRECT	CENT.	110	1/8"	1,014	0.8	120/1/60	53W	INTERLOCK W/LIGHTS	NOTES 1,2,3
EF-10	GREENHECK SP-A70	SF- JANITOR	DIRECT	CENT.	50	1/8"	719	0.3	120/1/60	20W	INTERLOCK W/LIGHTS	NOTES 1,2,3
EF-11	GREENHECK SBE-3H42-30	TRUCK BAYS	BELT	PROP.	18,000	1/4"	802	32.0	208/3/60	3 HP	MANUAL STARTER	NOTES 1,2,5,6,7,8

OR APPROVED EQUAL

L-5

L-6

FACTORY MOUNTED INTEGRAL DISCONNECT INTEGRAL BACKDRAFT DAMPER

5. SOLID STATE SPEED CONTROL FACTORY MOUNTED ON THE FAN HOUSING.

4. LINE VOLTAGE THERMOSTAT PROVIDED BY THE FAN MANUFACTURER.

5. FLUSH INTERIOR WALL HOUSING WITH OSHA FAN GUARD 6. 45° TURNDOWN HOOD FACTORY COATED TO MATCH THE BUILDING EXTERIOR. EXACT COLOR TO BE DETERMINED BY THE ARCHITECT AND OWNER.

7. H-O-A MOTOR STARTER WITH AUXILIARY CONTACTS FOR CONNECTION TO THE CO MONITORING SYSTEM. 18. FAN OPERATION SHALL BE INTERLOCKED WITH COMBINATION LOUVER/DAMPERS L=2A AND L=2B.

<u> </u>										
			LC	UVER	SCHE	DULE				
MARK	MANUF'R./MODEL	DESCRIPTION	SIZE	TYPE	CFM	BPWP	MAX. S.P.	MATERIAL	FINISH	REMARKS
L-1	GREENHECK ESJ-401	STATIC BLADE LOUVER	24x12	EXHAUST	360		0.05"	EXT. ALUM.	KYNAR	NOTE 1,2,3
L-2A	GREENHECK EACC-601	COMBINATION LOUVER/DAMPER	60x54	INTAKE	9,000	1,020		EXT. ALUM.	KYNAR	NOTE 1,2,3,4
L-2B	GREENHECK EACC-601	COMBINATION LOUVER/DAMPER	60x54	INTAKE	9,000	1,020		EXT. ALUM.	KYNAR	NOTE 1,2,3,4
L-3	GREENHECK ESJ-401	STATIC BLADE LOUVER	24x12	INTAKE	410	691		EXT. ALUM.	KYNAR	NOTE 1,2,3
L-4	GREENHECK ESJ-401	STATIC BLADE LOUVER	12x12	INTAKE	115	691		EXT. ALUM.	KYNAR	NOTE 1,2,3

570

210

0.05"

0.05"

EXT. ALUM.

EXT. ALUM.

KYNAR

KYNAR

38x12 | EXHAUST

12x12 EXHAUST

* OR APPROVED EQUAL IN RUSKIN OR ARROW

GREENHECK ESJ-401

GREENHECK ESJ-401

1. INTEGRAL GALVANIZED BIRD SCREEN. 2. INTAKE LOUVERS SHALL NOT BE SIZED FOR ANY MORE THAN 90% OF THE LOUVER MANUFACTURER'S BPWP RATING.

STATIC BLADE LOUVER

STATIC BLADE LOUVER

3. COLOR TO BE SELECTED BY OWNER FROM MANUFACTURER'S STANDARD RANGE — NO LESS THAN 24 STANDARD COLORS.

4. CONCEALED ACTUATOR AND LINKAGE.

	HIGH	VOLU	ME LOW SF	PEEC) FAN		
MANUF'R./MODEL	FAN DIA.	MOUNTING HEIGHT	DRIVE	MAX. RPM	MOTOR POWER	VOLTAGE	REMARKS
ENTREMATIC C-CLASS	14'	22'	GEARLESS, DIRECT	60	400 W	120/1/60	SEE NOTES
ENTREMATIC C-CLASS	14'	22'	GEARLESS, DIRECT	60	400 W	120/1/60	SEE NOTES
	MANUF'R./MODEL ENTREMATIC C-CLASS	MANUF'R./MODEL FAN DIA. ENTREMATIC C-CLASS 14' ENTREMATIC C-CLASS 14'	MANUF'R./MODEL FAN MOUNTING HEIGHT ENTREMATIC C-CLASS 14' 22' ENTREMATIC C-CLASS 14' 22'	MANUF'R./MODEL FAN DIA. MOUNTING HEIGHT DRIVE ENTREMATIC C-CLASS 14' 22' GEARLESS, DIRECT ENTREMATIC C-CLASS 14' 22' GEARLESS, DIRECT	MANUF'R./MODEL FAN DIA. MOUNTING HEIGHT DRIVE MAX. RPM ENTREMATIC C-CLASS 14' 22' GEARLESS, DIRECT 60 ENTREMATIC C-CLASS 14' 22' GEARLESS, DIRECT 60	MANUF'R./MODEL FAN DIA. MOUNTING HEIGHT DRIVE RPM POWER ENTREMATIC C-CLASS 14' 22' GEARLESS, DIRECT 60 400 W ENTREMATIC C-CLASS 14' 22' GEARLESS, DIRECT 60 400 W	MANUF'R./MODELFAN DIA.MOUNTING HEIGHTDRIVEMAX. RPM POWERWOTOR POWERVOLTAGEENTREMATIC C-CLASS14'22'GEARLESS, DIRECT60400 W120/1/60ENTREMATIC C-CLASS14'22'GEARLESS, DIRECT60400 W120/1/60

* OR APPROVED EQUAL.

HUB ASSEMBLY - 50,000 LBS. YIELD HIGH TENSILE STEEL 2. BLADE ATTACHMENT RETAINERS — 50,000 LBS. YIELD HIGH TENSILE STEEL

3. MOTOR HOUSING — 0.050 3003 ALUMINUM, POWDER COATED

4. BLADES - 6063-T6 ALUMINUM, POWDER COATED 5. BLADE END WINGLETS - 6061-T6 ALUMINUM, POWDER COATED

6. OPTIMIZED 5-BLADE PROFILE FOR LOW SPEED ROTARY AIRFOIL APPLICATION AND NEAR GROUND EFFECT PROVIDE DIGITAL TOUCHSCREEN NETWORK CONTROLLERS FOR CONTROL OF ALL FINS FROM ONE LOCATION

. REVERSE CAPABILITY 9. CAPABILITY TO SHUT DOWN WITH THE FIRE SYSTEM

10. LESS THAN 35 DBA

14. ANGLED ROOF INSTALLATIONS

ETL TO UL 507 CERTIFICATION

12. NEMA 1 CONTROL MODULE WITH INTEGRAL DISCONNECT. LOCATE AS RECOMMENDED BY THE MANUFACTURER. FINAL LOCATION TO BE APPROVED BY THE OWNER.

13. DESIGN INCLUDES UNIQUE WINGLET AND SNAP ON BLADE ATTACHMENT

15. PROVIDE DROP BAR OF THE LENGTH REQUIRED TO INSTALL THE FAN AT THE HEIGHT SCHEDULED. REFER TO THE ARCHITECTURAL PLANS FOR DETAILS OF THE ROOF CONSTRUCTION.

16. FACTORY POWDER COAT FINISH ON ALL EXPOSED PARTS. COLOR TO BE CHOSEN BY OWNER FROM MANUFACTURER'S STANDARD COLOR RANGE. MINIMUM OF 8 COLORS SHALL BE MADE AVAILABLE TO THE OWNER.

16. 10-YEAR PARTS WARRANTY, 1-YEAR PARTS

		IFFUSE	ER AND GR	ILLE SCHE	EDULE		
MARK	MANUF'R./MODEL	SIZE	FACE	MOUNTING	MATERIAL	FINISH	REMARKS
Α	PRICE SCD	24"x24"	SQUARE CONE	LAY-IN CLG	STEEL	WHITE	NONE
1	PRICE 80	24"x12"	CUBE CORE	LAY-IN CLG	EXT. ALUM.	WHITE	NONE
2	PRICE 80	12"x12"	CUBE CORE	LAY-IN CLG	EXT. ALUM.	WHITE	NOTE 1
3	PRICE 80	18"x18"	CUBE CORE	LAY-IN CLG	EXT. ALUM.	WHITE	NOTE 1

NOTE 1,2,3

NOTE 1,2,3

FRAMES/BORDERS FOR SQUARE LAY-IN CEILING APPLICATIONS WHERE THE AIR DEVICE CORE IS SMALLER THAN THE GRID SIZE SHALL INCLUDE INTEGRAL SOLID PANELS AROUND THE CORE SO THAT THE AIR DEVICE ASSEMBLY FILLS THE ENTIRE GRID SPACE.

OR APPROVED EQUAL IN TITUS, METAL—AIRE, OR TUTTLE & BAILEY

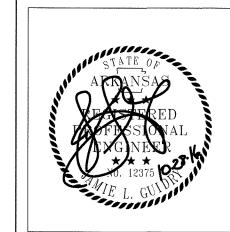
U 4

A PROJECT FOR:

0

#

0



(C) COPYRIGHT 2016 HOFFMANN ARCHITECTURAL INC. THIS DOCUMENT IS ISSUED AS AN INSTRUMENT OF SERVICE AND IS FOR THE PRODUCTION OF A SINGLE FACILITY AS NOTED IN THE SHEET TITLE. OWNERSHIP OF THIS DOCUMENT IS RETAINED BY HOFFMANN ARCHITECTURAL INC., UNAUTHORIZED REPRODUCTION IS PROTECTED BY THE COPYRIGHT LAWS OF THE UNITED STATES AND IS HEREWITH PROHIBITED.

DATE: 10/28/16

REVISIONS:

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON SITE PRIOR TO ORDERING

MATERIALS OR CONSTRUCTION.

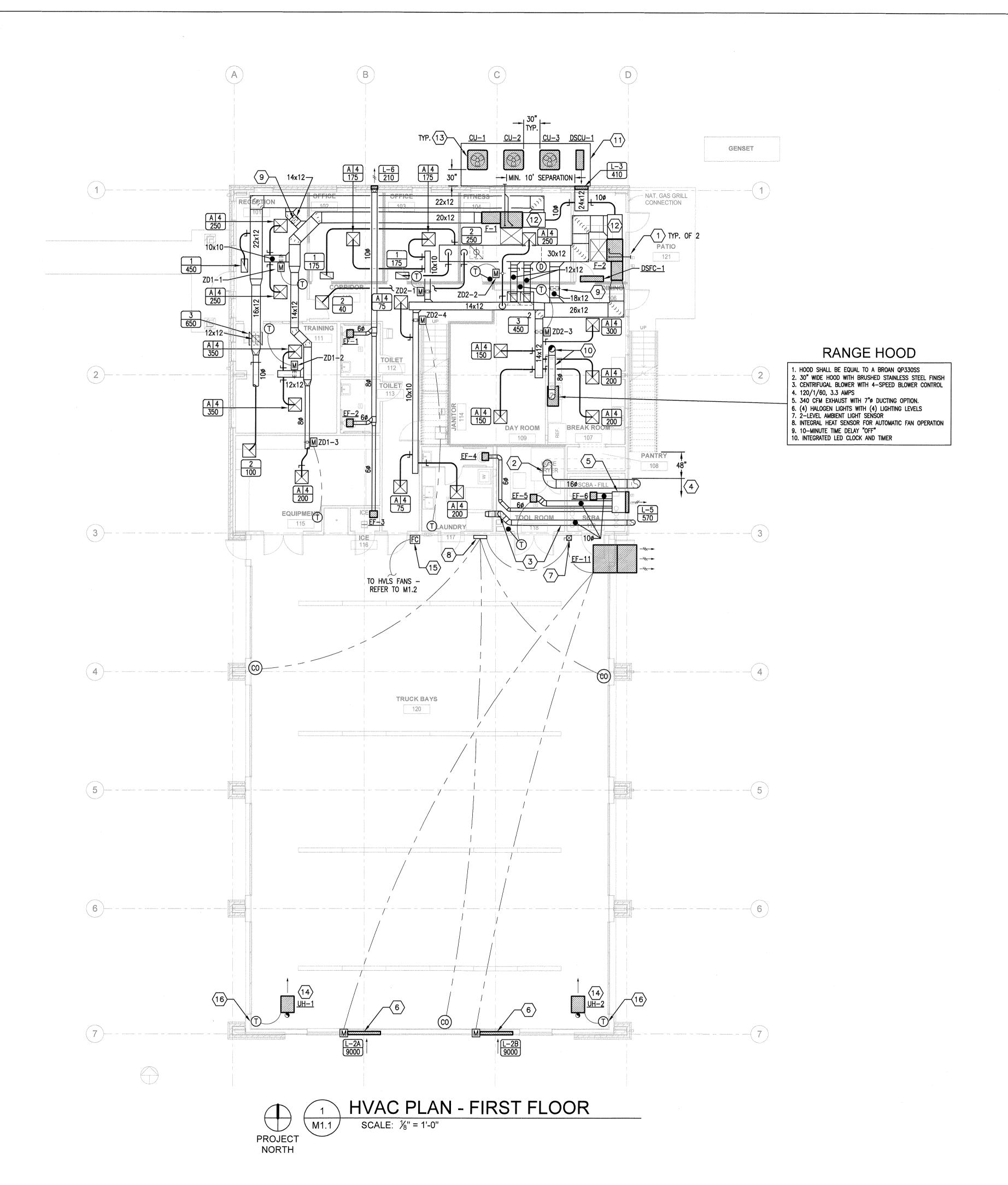
DRAWN BY:

HVAC GENERAL

SCHEDULES

NOTES AND

SHEET:



KEYED NOTES - DENOTED BY



NOTE: REFER TO THE ARCHITECTURAL PLANS FOR ALL ROOM NAMES AND NUMBERS.

- ROUTE THE SEPARATED COMBUSTION PIPES AS HIGH AS POSSIBLE AND TERMINATE
- AT A CONCENTRIC ADAPTER AT THE EXTERIOR WALL. ROUTE THE EXHAUST DUCT FOR THE HOSE DRYER TO THE EXTERIOR WALL IN STRICT ACCORDANCE WITH THE HOSE DRYER MANUFACTURER'S RECOMMENDATIONS.
 - HOSE DRYER BY OTHERS. ROUTE THE 10" DRYER EXHAUST DUCT UP IN THE TOOL ROOM TO ABOVE THE FIRST FLOOR CEILING AND TO THE OUTSIDE WALL. TURN DOWN 90° AND
 - 1-HOUR WALL CONSTRUCTION EXTENDS TO 4' SOUTH OF THE BOTTOM OF THE EXTERIOR EXIT STAIR. ALL WALL PENETRATIONS SHALL BE KEPT SOUTH OF
 - EXTEND A DUCT FULL SIZE OF THE CONNECTION TO THE LOUVER.

EXTENTS OF THE FIRE RATED CONSTRUCTION.

- LOUVERS SHALL BE LOCATED AS LOW ON THE WALL AS POSSIBLE. VERIFY THE LOWEST ACCEPTABLE MOUNTING HEIGHT AND EXACT MOUNTING LOCATION WITH THE OWNER AND ARCHITECT PRIOR TO ROUGH-IN.
- INSTALL THE MOTOR STARTER FOR EF-11 IN THIS VICINITY. VERIFY THE EXACT LOCATION WITH THE OWNER.
- PROVIDE A CO MONITORING SYSTEM EQUAL TO TOXALERT GVU-3 COMPLETE WITH (3) REMOTE CO SENSORS. THE CO MONITORING SYSTEM SHALL BE INTERLOCKED WITH $\overline{\text{EF}-11}$. FIELD VERIFY THE EXACT LOCATION OF THE CONTROL PANEL WITH
- PROVIDE A BYPASS DAMPER AS PART OF THE BYPASS-CHANGEOVER HVAC CONTROL SYSTEM. BYPASS DAMPER SHALL BE PROVIDED BY THE CONTROL SYSTEM MANUFACTURER AS PART OF A COMPLETE CONTROL SYSTEM.
- 10. ROUTE A 8" E.A. DUCT FROM THE RANGE AS HIGH AS POSSIBLE AND AS SHOWN. REFER TO 1/M1.2 FOR CONTINUATION.
- 11. PROVIDE A CONCRETE MECHANICAL PAD.
- 12. EXTEND A R.A. DUCT FULL SIZE OF THE CONNECTION TO THE FURNACE.
- 13. ROUTE THE INSULATED REFRIGERANT LINE SET UP IN THE EXTERIOR WALL TO ABOVE THE CEILING AND CONNECT TO THE RESPECTIVE COOLING COIL COMPLETE AND OPERATIVE.
- 4. PROVIDE A UNIT HEATER AS SCHEDULED AT 14' A.F.F. VERIFY THAT 14' IS AN ACCEPTABLE MOUNTING HEIGHT WITH THE OWNER PRIOR TO ROUGH-IN AND ADJUST AS REQUIRED. EXTEND A LISTED TYPE-B DOUBLE WALL FLUE VENT UP TO THE ROOF AND TERMINATE AT A LISTED WEATHER CAP. B-VENT SHALL BE SIZED PER THE UNIT HEATER MANUFACTURER'S RECOMMENDATIONS.
- INSTALL THE HVLS FAN CONTROLLER IN THIS VICINITY. VERIFY THE EXACT LOCATION WITH THE OWNER PRIOR TO ROUGH-IN.
- 16. INSTALL A 1" THICK EPS INSULATION THERMAL BREAK BETWEEN THE WALL AND THE THERMOSTAT BASE. PROVIDE A SHEET PAINTED SHEET METAL COVER OVER THE INSULATION FOR A NEAT, CLEAN AND WORKMANLIKE APPEARANCE.

NATIONAL : ENGINEERING: SERVICES, PLLC No. 2259



813 OAK STREET, SUITE 10A #337 LITTLE ROCK OFFICE 3801 WOODLAND HEIGHTS ROAD, SUITE 125-D LITTLE ROCK, AR 72212 PH: 501.235.3270 FAX: 501.235.3272

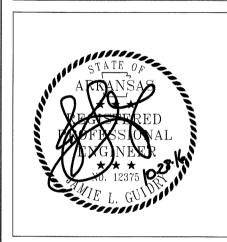
WWW.NES-ENG.COM

Searcy, Arkansas

0

A PROJECT FOR:

a



(c) COPYRIGHT 2016 HOFFMANN ARCHITECTURAL INC THIS DOCUMENT IS ISSUED AS AN INSTRUMENT OF SERVICE AND IS FOR THE PRODUCTION OF A SINGLE FACILITY AS NOTED IN THE SHEET TITLE. OWNERSHIP OF THIS DOCUMENT IS RETAINED BY HOFFMANN ARCHITECTURAL INC.. UNAUTHORIZED REPRODUCTION IS PROTECTED BY THE COPYRIGHT LAWS OF THE UNITED STATES AND IS HEREWITH PROHIBITED.

DATE: 10/28/16

REVISIONS:

CONTRACTOR MUST CHECK

AND VERIFY ALL DIMENSIONS

AND CONDITIONS ON SITE PRIOR TO ORDERING MATERIALS OR CONSTRUCTION.

DRAWN BY: JLG

HVAC PLAN - FIRST FLOOR

SHEET: M1.1

DRYER DUCT INSTALLATION

THE DRYER SHALL BE VENTED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. DUCT SHALL BE MIN. 0.0195" THICK GALVANIZED SHEET METAL. WHERE THE DUCT PENETRATES ANY WALL, SLEEVE THE OPENING, PROVIDING A MINIMUM 2" ANNULAR SPACE BETWEEN THE DRYER DUCT AND THE SLEEVE. PACK THE ANNULAR SPACE WITH NONCOMBUSTIBLE MATERIAL OR FIRE CAULKING. WHERE THE WALL PENETRATION IS EXPOSED TO VIEW, PROVIDE A PAINTED SHEET METAL COVER OVER THE OPENING OR SIMILAR TO CONCEAL THE SLEEVE AND ANNULAR PACKING AND PROVIDE A NEAT, CLEAN AND WORKMANLIKE INSTALLATION OF THE WALL PENETRATION. PROVIDE A PROPOSED METHOD FOR FINISHING THE WALL PENETRATION TO THE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO ANY ROUGH-IN.

REFRIGERANT LINE ROUTING

REFRIGERANT LINE SETS FROM THE VARIOUS OUTDOOR UNITS SHALL BE ROUTED NEAT AND CLEAN AND CONSOLIDATED INTO COMMON, PARALLEL PATHS AS MUCH AS POSSIBLE. REFRIGERANT PIPE SHALL BE SECURED TO THE MECHANICAL PAD AS DETAILED. GROUPS OF REFRIGERANT LINE SETS SHALL ENTER THE EXTERIOR AT COMMON LOCATIONS, RISE UP IN THE EXTERIOR WALL AND CONTINUE TO EACH RESPECTIVE FAN COIL UNIT. SUBMIT FOR APPROVAL A SHOP DRAWING OF THE PROPOSED REFRIGERANT PIPE ROUTING FROM EACH OUTDOOR UNIT TO THE EXTERIOR WALL AND INTO THE ATTIC.

HVAC CONTROLS

F-1/CU-1 AND F-2/CU-2 SHALL RECEIVE A BYPASS CHANGE-OVER ZONE CONTROL SYSTEM EQUAL TO CARRIER COMFORT ZONE II COMPLETE WITH MASTER CONTROLLER, SLAVE THERMOSTATS, ZONE DAMPERS, BYPASS DAMPERS AND ALL OTHER ACCESSORIES REQUIRED FOR A COMPLETE AND OPERATIVE INSTALLATION. F=3/CU=3 SHALL RECEIVE A STAND-ALONE 7-DAY DIGITAL PROGRAMMABLE THERMOSTAT.

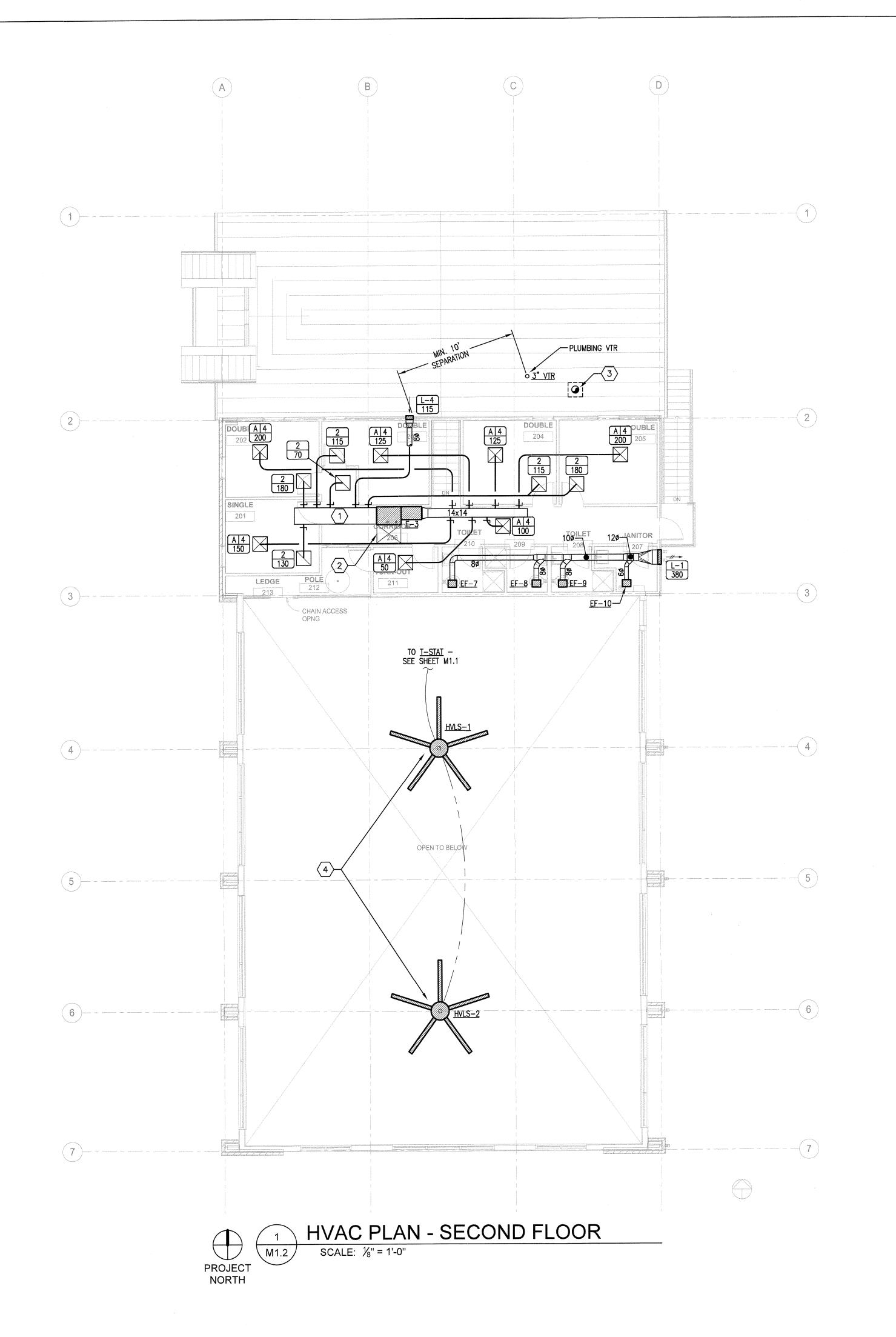
COOLING COIL CONDENSATE DRAINS

CONDENSATE DRAIN FROM THE COOLING COILS SHALL BE A DESIGN-BUILD SCOPE ITEM. TRAPPED, INSULATED CONDENSATE DRAIN LINES SHALL BE ROUTED, PITCHED TO DRAIN TO THE NEAREST EXTERIOR WALL, DOWN IN THE WALL, AND OUT TO THE EXTERIOR AT 6" A.F.G. FIELD VERIFY THE EXACT ROUTING TO MINIMIZE THE PIPING. PIPING SHALL BE CONSOLIDATED WHERE POSSIBLE. PIPING FROM SINGLE COILS SHALL BE NO LESS THAN 3/4". PIPING COMBINED FROM TWO OR THREE COILS SHALL BE NO LESS THAN 1". PIPING COMBINED FROM 4 OR MORE COILS SHALL BE 1-1/2". THE CONTRACTOR SHALL SUBMIT A PROPOSED CONDENSATE PIPING PLAN TO THE ARCHITECT FOR APPROVAL PRIOR TO ROUGH-IN. CONDENSATE SHALL DISCHARGE INTO THE STORM SEWER, DRY WELLS, OR GRASSY AREAS. WHERE CONDENSATE IS PROPOSED TO DISCHARGE INTO GRASSY AREAS A CONCRETE SPLASH BLOCK SHALL BE PROVIDED. CONDENSATE SHALL NOT DISCHARGE INTO SANITARY SEWER.

BRANCH DUCT SCHEDULE

SUPPLY AIR DUCT SIZES ARE FOR 0.08"/100' PRESSURE DROP, EQUAL FRICTION METHODOLOGY. RETURN AIR DUCT SIZES ARE FOR 0.06"/100' PRESSURE DROP, EQUAL FRICTION METHODOLOGY. TRUNK LINES AND BRANCH MAINS MAY BE PROVIDED IN ROUND DUCT ACCORDING TO THIS SCHEDULE, FOLLOWING PRIOR APPROVAL BY THE ENGINEER OF RECORD.

SUPPLY (CFM)	RETURN/EXHAUST (CFM)	DIAMETER (IN)
0-105	0-125	6ø
106-225	126-195	8ø
226-380	196–350	10ø
381-650	351-550	12ø
651-950	551-825	14ø
951-1350	826-1150	16ø
1351-1850	1151-1600	18ø
1851-2450	1601-2100	20ø
2451-3150	2101-2700	22ø
3151-3950	2701-3400	24ø



KEYED NOTES - DENOTED BY \(\psi \)

NOTE: REFER TO THE ARCHITECTURAL PLANS FOR ALL ROOM NAMES AND NUMBERS.

EXTEND A R.A. DUCT FULL SIZE OF THE R.A. CONNECTION TO THE FURNACE.

MAINTAIN A 30" WIDE SERVICE CLEARANCE AREA IN FRONT OF THE FURNACE.

- ROUTE A 8" E.A. DUCT FROM THE RANGE TO A ROOF JACK. ROOF JACK SHALL BE EQUAL TO A BROAN 611CM WITH CURB CAP. PROVIDE ROOF CURB. CURB AND CURB CAP SHALL BE PAINTED TO MATCH THE ROOF. FIELD PAINTING SHALL BE MINIMUM 3-COATS.
- THE WORK BAYS ARE OPEN TO THE ROOF DECK, APPROXIMATELY 24' HIGH WITH A PITCHED ROOF (REFER TO ARCHITECTURAL PLANS FOR DETAILS OF THE ROOF HEIGHT AND ROOF CONSTRUCTION). PROVIDE HIGH VOLUME, LOW SPEED FANS IN THE WORK BAY AREAS FOR DESTRATIFICATION.

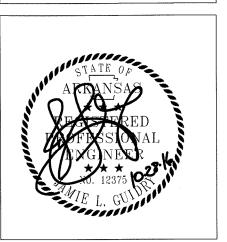
NATIONAL ENGINEERING SERVICES, PLLC 多. No. 2259.

CONWAY OFFICE 813 OAK STREET, SUITE 10A #337 CONWAY, AR 72032 LITTLE ROCK OFFICE 3801 WOODLAND HEIGHTS ROAD, SUITE 125-D

tation arcy LITTLE ROCK, AR 72212 PH: 501.235.3270 FAX: 501.235.3272 WWW.NES-ENG.COM

Searcy, Arkansas

A PROJECT FOR:



C COPYRIGHT 2016 HOFFMANN ARCHITECTURAL INC.

THIS DOCUMENT IS ISSUED AS AN INSTRUMENT OF SERVICE AND IS FOR THE PRODUCTION OF A SINGLE FACILITY AS NOTED IN THE SHEET TITLE. OWNERSHIP OF THIS DOCUMENT IS RETAINED BY HOFFMANN ARCHITECTURAL INC.. UNAUTHORIZED REPRODUCTION IS PROTECTED BY THE COPYRIGHT LAWS OF THE UNITED STATES AND IS HEREWITH PROHIBITED.

DATE: 10/28/16

REVISIONS:

BRANCH DUCT SCHEDULE

SUPPLY AIR DUCT SIZES ARE FOR 0.08"/100' PRESSURE DROP, EQUAL FRICTION METHODOLOGY. RETURN AIR DUCT

SIZES ARE FOR 0.06"/100' PRESSURE DROP, EQUAL FRICTION METHODOLOGY. TRUNK LINES AND BRANCH MAINS

MAY BE PROVIDED IN ROUND DUCT ACCORDING TO THIS

SCHEDULE, FOLLOWING PRIOR APPROVAL BY THE ENGINEER OF RECORD.

(CFM)

0-105

106-225

226-380

381-650

651-950

951-1350

1351-1850

1851-2450

2451-3150

3151-3950

RETURN/EXHAUST

(CFM)

0--125

126-195

196-350

351-550

551-825

826-1150

1151-1600

1601-2100

2101-2700

2701-3400

DIAMETER

(IN)

6ø

8ø

10ø

12ø

14ø

16ø

18ø

20ø

22ø

24ø

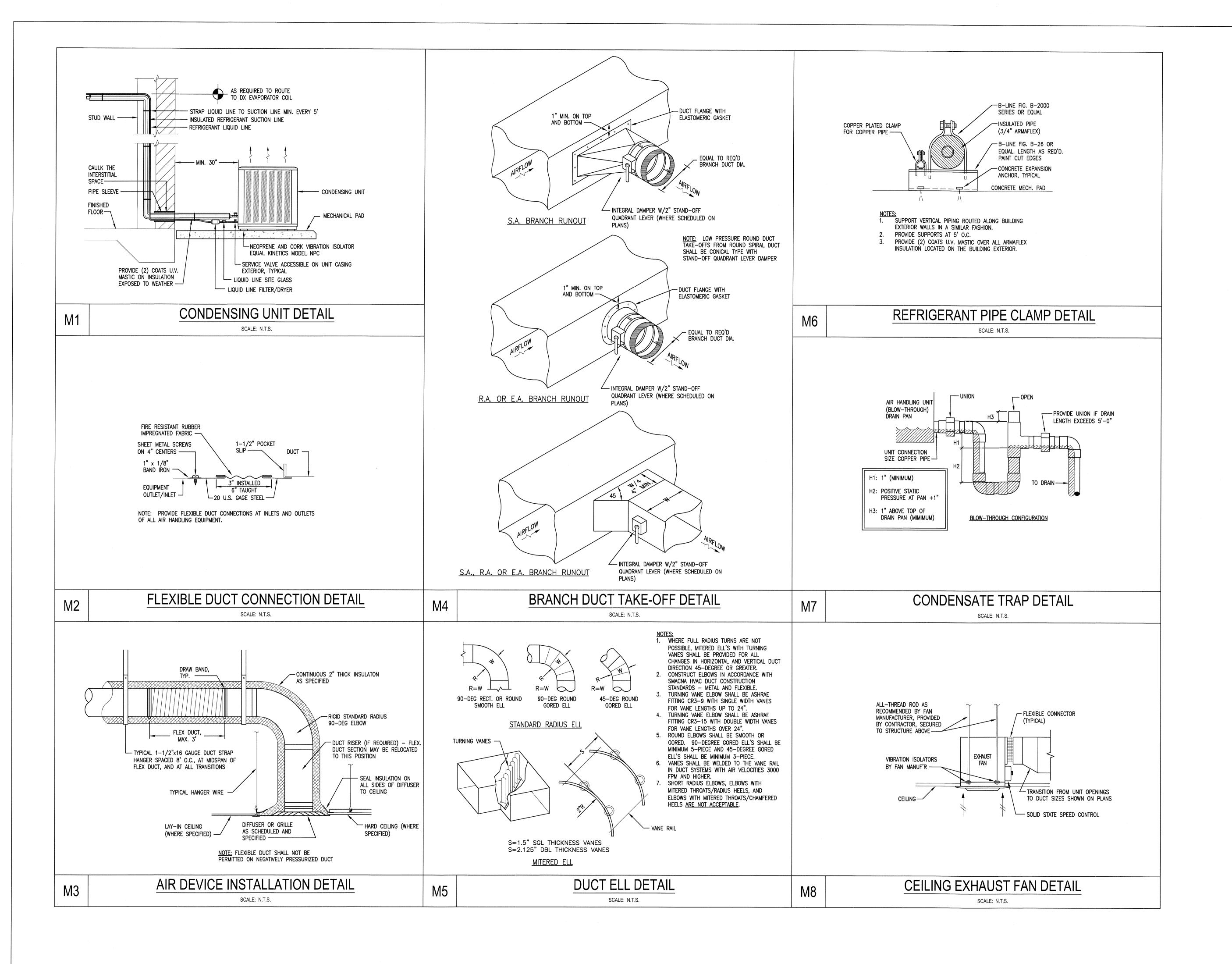
CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON SITE PRIOR TO ORDERING MATERIALS OR CONSTRUCTION.

DRAWN BY:

JLG

HVAC PLAN - SECOND FLOOR

SHEET: M1.2







PH: 501.235.3270

FAX: 501.235.3272

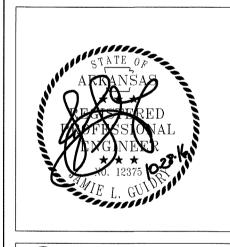
WWW.NES-ENG.COM

Searcy Fire Station

A PROJECT FOR:

Searcy, Arkansas

ffmann chitectural Inc.



C COPYRIGHT 2016

HOFFMANN ARCHITECTURAL INC.
THIS DOCUMENT IS ISSUED AS AN INSTRUMENT OF SERVICE AND IS FOR THE PRODUCTION OF A SINGLE FACILITY AS NOTED IN THE SHEET TITLE. OWNERSHIP OF THIS DOCUMENT IS RETAINED BY HOFFMANN ARCHITECTURAL INC.. UNAUTHORIZED REPRODUCTION IS PROTECTED BY THE COPYRIGHT LAWS OF THE UNITED STATES AND IS HEREWITH PROHIBITED.

DATE: 10/28/16

REVISIONS:

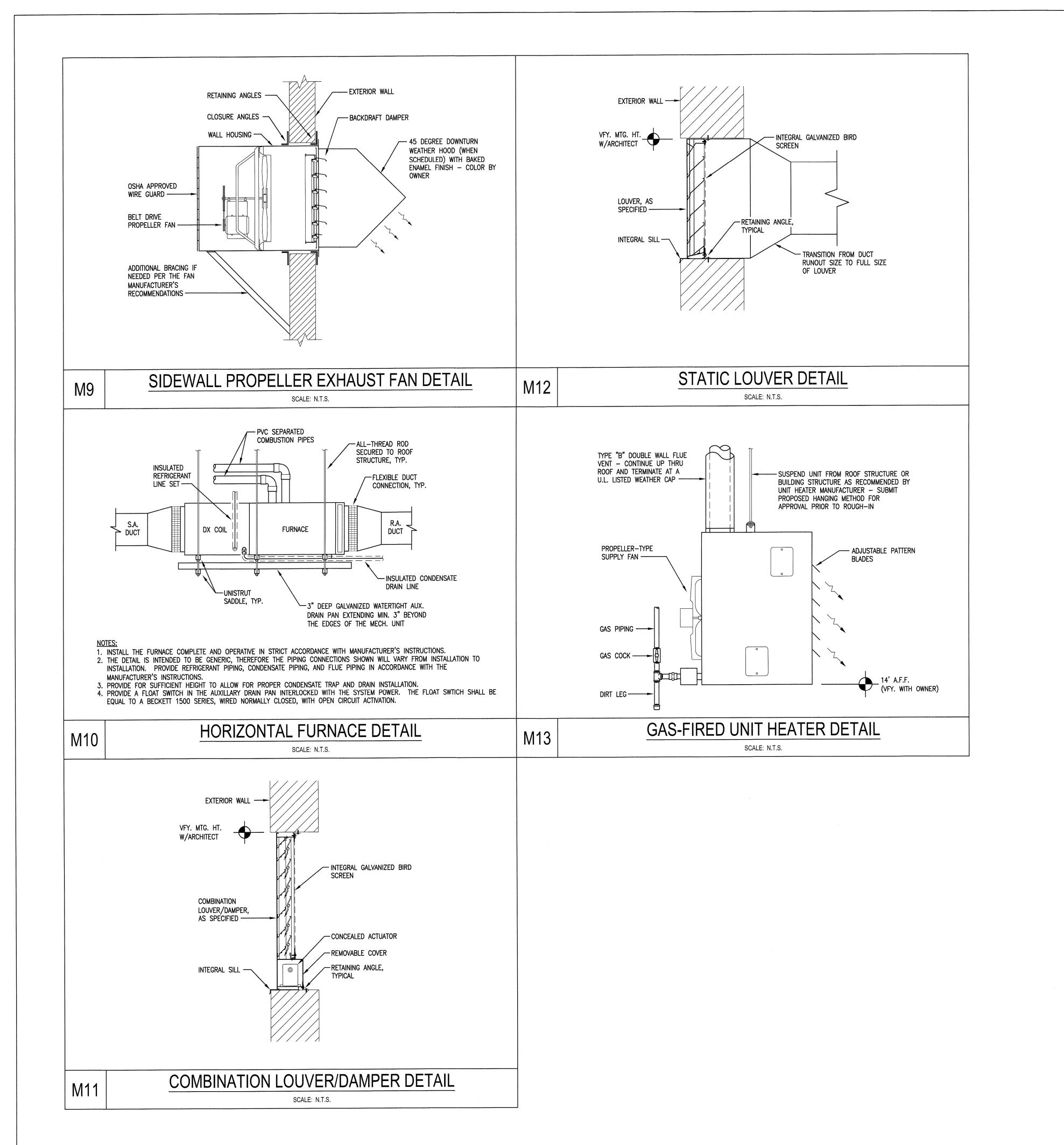
CONTRACTOR MUST CHECK
AND VERIFY ALL DIMENSIONS
AND CONDITIONS ON SITE
PRIOR TO ORDERING
MATERIALS OR CONSTRUCTION.

DRAWN BY: **JLG**

HVAC DETAILS

SHEET:

M2.1







LITTLE ROCK, AR 72212

FAX: 501.235.3272

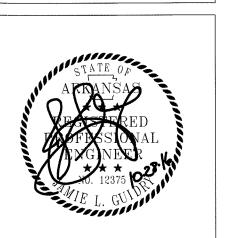
WWW.NES-ENG.COM

Searcy Fire

A PROJECT FOR:

Searcy, Arkansas

Hoffmann Architectural In



C COPYRIGHT 2016
HOFFMANN ARCHITECTURAL INC.
THIS DOCUMENT IS ISSUED AS AN

INSTRUMENT OF SERVICE AND IS
FOR THE PRODUCTION OF A
SINGLE FACILITY AS NOTED IN
THE SHEET TITLE. OWNERSHIP
OF THIS DOCUMENT IS RETAINED
BY HOFFMANN ARCHITECTURAL
INC.. UNAUTHORIZED
REPRODUCTION IS PROTECTED
BY THE COPYRIGHT LAWS OF THE
UNITED STATES AND IS
HEREWITH PROHIBITED.

DATE: **10/28/16**

REVISIONS:

CONTRACTOR MUST CHECK
AND VERIFY ALL DIMENSIONS
AND CONDITIONS ON SITE
PRIOR TO ORDERING
MATERIALS OR CONSTRUCTION.

DRAWN BY: **JLG**

HVAC DETAILS

SHEET: **M2.2**

1985		SYMBOLS LEGEND		SYMBOLS LEGEND		SYMBOLS LEGEND
	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
Compared to the compared of		FLUORESCENT LIGHT FIXTURE — CEILING MOUNTED	< 4	DATA OUTLET: # INDICATES RJ45 DATA MODULES IN 2 GANG, 3 1/2" DEEP BACKBOX. PROVIDE 1"C. WITH CAT6 CABLING TO PATCH PANEL IN IT ROOM.	75 E	
					☆ ⁷⁵	FIRE ALARM VISUAL ONLY ONLY DEVICE — NUMBER INDICATES MINIMUM CANDELA RATING OF STROBE
■			4	BOX. PROVIDE 1"C. WITH CAT6 CABLING TO PATCH PANEL IN IT ROOM. PROVIDE COMPLETE WITH APPROPRIATE COVERPLATE. (2) CAT6 MINIMUM		FIRE ALARM DOUBLE ACTION PULL STATION
****			4	CEILING MOUNTED WIFI ACCESS POINT: PROVIDE JBOX WITH CAT6 CABLING BEWTEEN BOX AND IT ROOM PATCH PANEL COORDINATE LOCATIONS WITH OWNER'S IT DEPT.	H	HEAT DETECTOR
			MIFI		S	SMOKE DETECTOR
		PARABOLIC FLUORESCENT LIGHT FIXTURE — CEILING MOUNTED		TELEVISION OUTLET — SINGLE GANG FLUSH OUTLET BOX WITH 3/4"C & PULL STRING TO ACCESSIBLE LOCATION ABOVE CEILING IN CORRIDOR.	SD	DUCT MOUNTED SMOKE DETECTOR
March Marc		FLUORESCENT STRIP LIGHT - CEILING MOUNTED OR CHAIN HUNG	J	JUNCTION BOX - SIZED TO ACCOMODATE CONNECTION	[fS]	FLOW SWITCH — FURNISHED BY OTHERS (VERIFY LOCATION AND QUANTITY)
	-04			DISCONNECT SWITCH	<u> </u>	TAMPER SWITCH - FURNISHED BY OTHERS (VERIFY LOCATION AND QUANTITY)
	<u>⊢</u> ō-1	FLUORESCENT STRIP LIGHT — WALL MOUNTED	4	COMBINATION MOTOR STARTER / DISCONNECT SWITCH		
Section Company 100 C		FLUORESCENT LIGHT FIXTURE — WALL MOUNTED	\boxtimes	MOTOR STARTER	CR KP	CARD READER or KEYPAD (COORDINATE WITH VENDOR)
■ STATESTER		INCANDESCENT, FLUORESCENT, OR HID DOWNLIGHT FIXTURE — CEILING MOUNTED	EPO OR EPO	EMERGENCY POWER OFF STATION (REMOTE SHUNT TRIP) — REFER TO "POWER RISER DIAGRAM"	M	MAGNETIC DOOR LOCK
□	•		~ SHP2~,	BRANCH CIRCUIT IN CONDUIT - SWITCH LEG, PHASE LEG, NEUTRAL, ISOLATED	ES	ELECTRIC STRIKE - COORDINATE WITH HARDWARE PROVIDER.
CONTROL MALE AND LIGHT CHANN HEARTH OF A PLANE CHANN	오		112	BRANCH CIRCUIT HOMERUN — PANEL AND CIRCUIT NUMBER INDICATED	■EB	EGRESS BUTTON (TO RELEASE MAGNETIC DOOR LOCK)
Column		RECESSED WALL WASH LIGHT FIXTURE - ARROW INDICATES DIR. OF LIGHT OUTPUT	zy	CONDUIT CONCEALED IN OR BELOW FLOOR SLAB OR BELOW GRADE	(MD	MOTION DETECTOR - SECURITY SYSTEM
	•	AREA LIGHT POLE	V7	EXISTING CONDUIT	(GB)	GLASS BREAK DETECTOR - SECURITY SYSTEM
S	0.00	AREA LIGHT POLE	~~~	FLEXIBLE CONDUIT	®	INDOOR SIREN - SECURITY SYSTEM
Secretary Secr	4.6	EMERGENCY LIGHT FIXTURE	} 	EMERGENCY CIRCUIT(S) (SHOWN WITH NON-ARCHED LINES)	©	DOOR CONTACT - SECURITY SYSTEM
Security	⊗ ⊗	EXIT LIGHTS — WALL MT. & CEILING MT. SHOWN — SHADING INDICATES FACE(S), DIRECTIONAL ARROWS SHALL BE AS SHOWN ON PLANS			SCP	SECURITY CONTROL PANEL - COORDINATE WITH VENDOR.
The content and the content				SURFACE MOUNTED PANELBOARD — SEE SCHEDULE		
S SALE POLICE SIGNED A CONTROL SINCE A CONTROL OF AND	S ₂	TWO-POLE TOGGLE SWITCH		FLUSH MOUNTED PANELBOARD — SEE SCHEDULE		ž.
So Diversion countries series and construct of the countries countries countries and countries c	S ₃ S _{K3}	THREE-WAY TOGGLE SWITCH (K3-KEYED 3-WAY)	77777	TELEPHONE TERMINAL BOARD 4'X8'X3/4" PLYWOOD PAINTED GREY		
Syrup received. The received of the received o	S ₄ S _{K4}	FOUR-WAY TOGGLE SWITCH (K4-KEYED 4-WAY)		TRANSFORMER		
SK SINGL-FOLE TODGE SWITCH - KEY OFFENTE MO SINGL-FOLE TODGE SWITCH - K	S _D	DIMMER CONTROL SWITCH OR STATION (AS SPECIFIED ON PLANS AND/OR RISER) RATED FOR LOAD AND LOAD TYPE.	C	CONTACTOR		
SERVICE OF THE PROPERTY OF THE SERVICE OF THE PROPERTY OF THE SERVICE OF THE SERV	SMGFCI	MANUAL MOTOR STARTER WITH OVERLOADS, TOGGLE OPERATED	TC)	TIME CLOCK		2 -
SYSTEM FOR PACING AS REQUIRED. COCONANTE WITH VENDOR. MAIN-LIVEL SWITCHES MAIN-LIVEL SWITCH	S _K	SINGLE-POLE TOGGLE SWITCH - KEY OPERATED	[DH]	DOOR HOLD OPEN. POWER AND CONNECT TO SMOKE DETECTORS PER CODE.	AC	ABOVE COUNTER
MULTI-DELS SIND FINES COURTS IN APPLICATION OF COURTS SPEACE MOUNT 44" TO BOTTON S SIND ES SIND FINES COURT AND COURT AS COURT AND COURT AS COU	SWP		S	AUDIO/VISUAL SPEAKER — BOSE FREESPACE OR EQUAL. CONNECT TO TELE. SYSTEM FOR PAGING AS REQUIRED. COODINATE WITH VENDOR.	AFF	
SS - SWITCHES NORTH LAWRY) SUPERING RECEPTAGE - HUBBELL WRING DEVICE (ACRORMENT W/SSS COMPRUTE) SOUTH WITH GROWN DEVIAND UP 16' TO SOUTH OF SOX (NO.) SOUTH LAWRY CONTROL HUBBELL WRING DEVICE (ACRORMENT W/SSS COMPRUTE) SOUTH LAWRY CONTROL TO THE TO SOUTH LAWRY CONTROL WAS COMPRUTED SOUTH LAWRY RECEPTAGE - (1) HUBBELL WRING DEVICE (ACRORMENT W/SSS COMPRUTE) SOUTH LAWRY RECEPTAGE - (2) HUBBELL WRING DEVICE (ACRORMENT W/SSS COMPRUTE) SOUTH LAWRY RECEPTAGE - (2) HUBBELL WRING DEVICE (ACRORMENT W/SSS COMPRUTE) SOUTH LAWRY RECEPTAGE - (3) HUBBELL WRING DEVICE (ACRORMENT W/SSS COMPRUTE) SOUTH LAWRY RECEPTAGE - (3) HUBBELL WRING DEVICE (ACRORMENT W/SSS COMPRUTE) SOUTH LAWRY RECEPTAGE - (4) HUBBELL WRING DEVICE (ACRORMENT W/SSS COMPRUTE) SOUTH LAWRY RECEPTAGE - HUBBELL WRING DEVICE (ACRORMENT W/SSS COMPRUTE) SOUTH LAWRY RECEPTAGE - HUBBELL WRING DEVICE (ACRORMENT W/SSS COMPRUTE) SOUTH LAWRY RECEPTAGE - HUBBELL WRING DEVICE (ACRORMENT W/SSS COMPRUTE) SOUTH LAWRY RECEPTAGE - HUBBELL WRING DEVICE (ACRORMENT W/SSS COMPRUTE) SOUTH LAWRY RECEPTAGE - HUBBELL WRING DEVICE (ACRORMENT W/SSS COMPRUTE) SOUTH LAWRY RECEPTAGE - HUBBELL WRING DEVICE (ACRORMENT W/SSS COMPRUTE) SOUTH LAWRY RECEPTAGE - HUBBELL WRING DEVICE (ACRORMENT W/SSS COMPRUTE) SOUTH LAWRY RECEPTAGE - HUBBELL WRING DEVICE (ACRORMENT W/SSS COMPRUTE) SOUTH LAWRY RECEPTAGE - HUBBELL WRING DEVICE (ACRORMENT W/SSS COMPRUTE) SOUTH LAWRY RECEPTAGE - HUBBELL WRING DEVICE (ACRORMENT W/SSS COMPRUTE) SOUTH LAWRY RECEPTAGE - HUBBELL WRING DEVICE (ACRORMENT W/SSS COMPRUTE) SOUTH LAWRY RECEPTAGE - HUBBELL WRING DEVICE (ACRORMENT W/SSS COMPRUTE) SOUTH LAWRY RECEPTAGE - HUBBELL WRING DEVICE (ACRORMENT W/SSS COMPRUTE) SOUTH LAWRY RECEPTAGE - HUBBELL WRING DEVICE (ACRORMENT W/SSS COMPRUTE) SOUTH LAWRY RECEPTAGE - HUBBELL WRING DEVICE (ACROMENT W/SSS COMPRUTE) SOUTH LAWRY RECEPTAGE - HUBBELL WRING DEVICE (ACRORMENT W/SSS C	CC	MULTI-LEVEL SWITCHING:			AFG	ABOVE FINISH GRADE
### DUPLOR RECEPTACLE — HUBBILL WRING DEVCE, PROZERVATION W/SSB COMERPLATE ### DUPLOR RECEPTACLE — HUBBILL WRING DEVCE, PROZERVATION W/SSB COMERPLATE ### DUPLOR RECEPTACLE — HUBBILL WRING DEVCE, PROJECT W/SSB COMERPLATE ### DUPLOR RECEPTACLE — HUBBILL WRING DEVCE, PROJECT W/SSB COMERPLATE ### DUPLOR RECEPTACLE — (A) HUBBILL WRING DEVCE, PROJECT W/SSB COMERPLATE ### DUPLOR RECEPTACLE — (A) HUBBILL WRING DEVCE, PROJECT W/SSB COMERPLATE ### DUPLOR RECEPTACLE — (A) HUBBILL WRING DEVCE, PROJECT W/SSB COMERPLATE ### DUPLOR RECEPTACLE — HUBBILL WRING DEVCE, PROJECT W/SSB COMERPLATE ### DUPLOR RECEPTACLE — HUBBILL WRING DEVCE, PROJECT W/SSB COMERPLATE ### DUPLOR RECEPTACLE — HUBBILL WRING DEVCE, PROJECT W/SSB COMERPLATE ### DUPLOR RECEPTACLE — HUBBILL WRING DEVCE, PROJECT W/SSB COMERPLATE ### DUPLOR RECEPTACLE — HUBBILL WRING DEVCE, PROJECT W/SSB COMERPLATE ### DUPLOR RECEPTACLE — HUBBILL WRING DEVCE, PROJECT W/SSB COMERPLATE ### DUPLOR RECEPTACLE — HUBBILL WRING DEVCE, PROJECT W/SSB COMERPLATE ### DUPLOR RECEPTACLE — HUBBILL WRING DEVCE, PROJECT W/SSB COMERPLATE ### DUPLOR RECEPTACLE — HUBBILL WRING DEVCE, PROJECT W/SSB COMERPLATE ### DUPLOR RECEPTACLE — HUBBILL WRING DEVCE, PROJECT W/SSB COMERPLATE ### DUPLOR RECEPTACLE — HUBBILL WRING DEVCE, PROJECT W/SSB COMERPLATE ### DUPLOR RECEPTACLE — HUBBILL WRING DEVCE, PROJECT W/SSB COMERPLATE ### DUPLOR RECEPTACLE — HUBBILL WRING DEVCE, PROJECT W/SSB COMERPLATE ### DUPLOR RECEPTACLE — HUBBILL WRING DEVCE, PROJECT W/SSB COMERPLATE ### DUPLOR RECEPTACLE — HUBBILL WRING DEVCE, PROJECT W/SSB COMERPLATE ### DUPLOR RECEPTACLE — HUBBILL WRING DEVCE, PROJECT W/SSB COMERPLATE ### DUPLOR RECEPTACLE — HUBBILL WRING DEVCE, PROJECT W/SSB COMERPLATE ### DUPLOR RECEPTACLE — HUBBILL WRING DEVCE, PROJECT W/SSB COMERPLATE ### DUPLOR RECEPTACLE — HUBBILL WRING DEVCE, PROJECT W/SSB COMERPLATE ### DUPLOR RECEPTACLE — HUBBILL WRING DEVCE, PROJECT W/SSB COMERPLATE ### DUPLOR RECEPTACLE — HUBBILL WRING DEVCE, PROJECT W/SSB COMERPLATE ### DUPLOR RECEPTACLE — HUBBILL WRI	30 3b	Sa — SWITCHES 2 OUTTER LAMPS Sb — SWITCHES INNER LAMP(S)	(w)	WALL MOUNTED VOLUMN CONTROL FOR CEILING SPEAKER. MOUNT 44" TO BOTTOM OF OUTLET BOX.	BFC	BELOW FINISH CEILING
DUPLEX RECEPTACLE ON EMERO POWER — HID ACKDONEDITE W/SSS COVERPLANE DUPLEX RECEPTACLE ON EMERO POWER — HID ACKDONEDITE W/SSS COVERPLANE DUPLEX RECEPTACLE MOUNT WITH GROUND TERMINAL UP 18 TO BOTTOM OF BOX (UND). DUPLEX RECEPTACLE MOUNT WITH GROUND TERMINAL UP 18 TO BOTTOM OF BOX (UND). DUPLEX RECEPTACLE MOUNT WITH GROUND TRANSMAL UP 18 TO BOTTOM OF BOX (UND). DUPLEX RECEPTACLE MOUNT WITH GROUND TRANSMAL UP 18 TO BOTTOM OF BOX (UND). DUPLEX RECEPTACLE MOUNTED HOUSENS AND MALMORY DEVIALS. DUPLEX RECEPTACLE MOUNTED HOUSENS AND MALMORY DEVIALS. DUPLEX RECEPTACLE HOUR WITH ACKNOWN SAND MALMORY DEVIALS. DUPLEX RECEPTACLE HOUR TO BOTTOM OF BOX (UND). DUPLEX RECEPTACLE HOUR RECEPTACLE HOUR RECEPTACLE HOUR RECEPTACLE HOUR RECEPTACLE HOUR RECEPTACLE HOUR ACKNOWN W/RWS-300 IN USE DUPLEX RECEPTACLE WITH A SAND OF BOX (UND). DUPLEX RECEPTACLE WITH A SAND OF BOX (UND					EP	EXPLOSION PROOF
OLADRAPLEX RECEPTACLE — (2) HUBBELL WRING DEMCE ACCOUNTER W/SSS2 WOLF RECEPTACLE — (1) HUBBELL WRING DEMCE ACCOUNTER TOP — PERFY WEATHERPROOF IN USE TYPE RECEPTACLE — HUBBELL WRING DEMCE AFFTROW W/SSS2 WEATHERPROOF IN USE TYPE RECEPTACLE — HUB ACCOUNTER TOP — PERFY WEATHERPROOF IN USE TYPE RECEPTACLE — HUB ACCOUNTED BY SSS2 WEATHERPROOF IN USE TYPE RECEPTACLE — HUB ACCOUNTER OF DO K (UND). WEATHERPROOF IN USE TYPE RECEPTACLE — HUB ACCOUNTED BY SSS2 WEATHERPROOF IN USE TYPE RECEPTACLE — HUB ACCOUNTER OF DO K (UND). WEATHERPROOF IN USE TYPE RECEPTACLE — HUB ACCOUNTER OF DOK (UND). WEATHERPROOF IN USE TYPE RECEPTACLE — HUB ACCOUNTER OF DOK (UND). WEATHERPROOF IN USE TYPE RECEPTACLE — HUB ACCOUNTER OF DOK (UND). WEATHERPROOF IN USE TYPE RECEPTACLE — HUB ACCOUNTER OF DOK (UND). WEATHERPROOF IN USE TYPE RECEPTACLE — HUB ACCOUNTER — HUB ACCOUNTE	ф	DUPLEX RECEPTACLE — HUBBELL WIRING DEVICE #CR20WHITR W/SS8 COVERPLATE MOUNT WITH GROUND TERMINAL UP 18" TO BOTTOM OF BOX (UNO).		4"DEEP, 8"WIDE FLEXTRAY WIRE MANAGEMENT SYSTEM — B-LINE #FT4X8X10 WALL HUNG IN CORRIDOR 12" BELOW DECK. #FTB18CS BRACKETS 5' O.C.	EP0	EMERGENCY POWER OFF
## DUPLEX RECEPTACLE MOUNTED HORIZONTALLY ABOVE COUNTER TOP - VERIFY MOUNTRON HIGHT WITH ARCHITECTURAL DRAWNS AND MILLWORK DETAILS. ### DUPLEX RECEPTACLE - HUBBELL WIRNS DEVICE #FFTZOW W/SS26 ### DUPLEX RECEPTACLE - HUBBELL WIRNS DEVICE #FFTZOW W/SS26 ### DUPLEX RECEPTACLE - HUBBELL WIRNS DEVICE #FFTZOW W/SS26 ### DUPLEX RECEPTACLE - HUBBELL WIRNS DEVICE #FFTZOW W/SS26 ### DUPLEX RECEPTACLE - HUBBELL WIRNS DEVICE #FFTZOW W/SS26 ### DUPLEX RECEPTACLE - HUBBELL WIRNS DEVICE #FFTZOW W/SS26 ### DUPLEX RECEPTACLE - HUBBELL WIRNS DEVICE #FFTZOW W/SS26 ### DUPLEX RECEPTACLE WITH A MOUNTED 12" BELOW CEILING ### DUPLEX RECEPTACLE HUBBELL WIRNS DEVICE #FFTZOW W/SS26 ### DUPLEX RECEPTACLE HUBBELL W/W/SS26 ### DUPLEX RECEPTACLE HUBBELL W/W/SS26 ### DUPLEX RECEPTACLE HUBBELL W/W/SS26 ### DUPLEX	ф ^Е	DUPLEX RECEPTACLE ON EMERG POWER — HWD #CR20REDTR W/SS8 COVERPLATE MOUNT WITH GROUND TERMINAL UP 18" TO BOTTOM OF BOX (UNO).	T	THERMOSTAT — E.C. TO FURNISH & INSTALL BACKBOX & 1/2" CONDUIT TO ABOVE ACCESSIBLE CEILING & TERMINATE	GFI	GROUND FAULT INTERRUPTING
MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINS AND MILLWORK DETAILS. GROUND FAULT RECEPTACLE - HUBBELL WIRING DEVICE #FOFFZOW W/SS26 GROUND FAULT RECEPTACLE - HUBBELL WIRING DEVICE #FOFFZOW W/SS26 WEATHERPROOF HUSING. MOUNT AT 18" TO BOTTOM OF BOX (UND). BY WEATHERPROOF HUSING. MOUNT AT 18" TO BOTTOM OF BOX (UND). WEATHERPROOF HUSING. MOUNT AT 18" TO BOTTOM OF BOX (UND). WEATHERPROOF HUSING. MOUNT AT 18" TO BOTTOM OF BOX (UND). WEATHERPROOF HUSING. MOUNT AT 18" TO BOTTOM OF BOX (UND). WEATHERPROOF HUSING. MOUNT AT 18" TO BOTTOM OF BOX (UND). WEATHERPROOF HUSING. MOUNT AT 18" TO BOTTOM OF BOX (UND). WEATHERPROOF HUSING. MOUNT AT 18" TO BOTTOM OF BOX (UND). WEATHERPROOF HUSING. MOUNT AT 18" TO BOTTOM OF BOX (UND). WEATHERPROOF HUSING. MOUNT AT 18" TO BOTTOM OF BOX WITH JUNCTERS L. COVER FOR EITHER CARPET OR TILE AS NECESSARY. COORDONATE WITH ARCHITECT. FOR EITHER CARPET OR TILE AS NECESSARY. COORDONATE WITH ARCHITECT. FOR EITHER CARPET OR TILE AS NECESSARY. COORDONATE WITH ARCHITECT. FOR EITHER CARPET OR TILE AS NECESSARY. COORDONATE WITH ARCHITECT. FOR EITHER CARPET OR TILE AS NECESSARY. COORDONATE WITH ARCHITECT. FOR EITHER CARPET OR TILE AS NECESSARY. COORDONATE WITH ARCHITECT. FOR EITHER CARPET OR TILE AS NECESSARY. COORDONATE WITH ARCHITECT. FOR EITHER CARPET OR TILE AS NECESSARY. COORDONATE WITH ARCHITECT. FOR EITHER CARPET OR TILE AS NECESSARY. COORDONATE WITH ARCHITECT. FOR EITHER CARPET OR TILE AS NECESSARY. WITH DEVICES AS SHOWN UNDER COORDONATE WITH ARCHITECT. USE OF TOWN OF THE COORDONATE WITH ARCHITECT. FOR EITHER CARPET OR TILE AS NECESSARY. WITH DEVICES AS SHOWN UNDER COORDONATE WITH ARCHITECT. USE OF TOWN OF TOWN OF THE COORDONATE WITH ARCHITECT. FOR EITHER CARPET OR TILE AS NECESSARY. USE OF TOWN OF T	#	QUADRAPLEX RECEPTACLE — (2) HUBBELL WIRING DEVICE #CR20WHITR W/SS82 COVERPLATE. MOUNT WITH GROUND TERMINAL UP 18" TO BOTTOM OF BOX (UNO).	⊏⋈	CCTV - PROVIDE CAMERA, CONNECTION AND DVR COMPLETE.	GRD	GROUND
COVERPLIE WEATHERROOF IN USE TYPE RECEPTACLE — HWD #GRF120W W/RW57500 IN USE WEATHERROOF HOUSING. MOUNT AT 18" TO BOTTOM OF BOX (UND). INDEED DISCONNECT SWITCH NON—METALIC FLUSH MULTI SERVICE FLOOR BOX WITH UNIVERSAL COVER FOR EITHER CARPET OR TILE AS INCESSARY. COORDINATE WITH ARCHITECT. FLOOR BOX TO ACCOMMODATE UPIERS OF COORDINATE WITH ARCHITECT. FLOOR BOX TO ACCOMMODATE UPIERS OF COORDINATE WITH ARCHITECT. FLOOR BOX MOTH OF TYPE. SPECIAL PURPOSE OUTLET — NEMA CONFIGURATION (VOLTAGE, AMPACITY) AS NOTE ON DRAWINGS SURFACE MOUNTED DUAL COMPARTMENT RACEWAY WITH DEVICES AS SHOWN HIBBELL #HBILAT30 SERVES ALUMINUM POWER POLE — HUBBELL WIRING DEVICE #HBLPPOAL W/ATB — (10") WEATHERROOF IN USE TYPE RECEPTACLE — HWD #GRF120W W/RW57500 IN USE WEATHERROOF HOUSING. MOUNT AT 18" TO BOTTOM OF BOX (UND). NON—WELSON DEVICED ON SURFACE WITH A SHORT OF USE OF THE ASSOCIATION (VOLTAGE, AMPACITY) AS NOTE ON DRAWINGS SPECIAL PURPOSE OUTLET — NEMA CONFIGURATION (VOLTAGE, AMPACITY) AS NOTE ON DRAWINGS SURFACE MOUNTED DUAL COMPARTMENT RACEWAY WITH DEVICES AS SHOWN HIBBELL #HBILAT30 SERVES ALUMINUM POWER POLE — HUBBELL WIRING DEVICE #HBLPPOAL W/ATB — (10") ALUMINUM POWER POLE — HUBBELL WIRING DEVICE #HBLPPOAL W/ATB — (10")		DUPLEX RECEPTACLE MOUNTED HORIZONTALLY ABOVE COUNTER TOP — VERIFY MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS AND MILLWORK DETAILS.			IG	ISOLATED GROUNDING
WEATHERPROOF IN USE TYPE RECEPTACLE — HWD #GRFT2OW W/RW57500 IN USE #EATHERPROOF HOUSING. MOUNT AT 18" TO BOTTOM OF BOX (UNO). #INDEX HOUSING. MOUNT AT 18" TO BOTTOM OF BOX (UNO). #INDEX HOUSING. MOUNT AT 18" TO BOTTOM OF BOX (UNO). #INDEX HEAPPROOF	∯ ^{GFCI}	GROUND FAULT RECEPTACLE — HUBBELL WIRING DEVICE #GFTR20W W/SS26 COVERPLATE.	Ю	RECESSED CLOCK RECEPTACLE MOUNTED 12" BELOW CEILING	MTD	
USB CHARGING RECEPTACLE WITH 3 AMPS OF USB POWER – HWD #USB15X2W SDBC SOFT—DRAWN BARE COPPER NON—METALIC FLUSH MULTI SERVICE FLOOR BOX WITH UNIVERSAL COVER FOR EITHER CARPET OR TILE AS NECESSARY. COORDINATE WITH ARCHITECT. FLOOR BOX TO ACCOMODATE DUPLEX CONVENIENCE RECEPTACLE AND (4) TELE//DATA PORTS. HWD SYSTEM ONE TYPE. TC TIME CLOCK 10–30R SPECIAL PURPOSE OUTLET – NEMA CONFIGURATION (VOLTAGE, AMPACITY) AS NOTED ON DRAWINGS. SPECIAL PURPOSE OUTLET – NEMA CONFIGURATION (VOLTAGE, AMPACITY) AS NOTED ON DRAWINGS. SUBFACE MOUNTED DUAL COMPARTMENT RACEWAY WITH DEVICES AS SHOWN HUBBELL #HBL4750 SERIES ALUMINUM POWER POLE – HUBBELL WIRING DEVICE #HBLPPOAL W/ATB – (10')	∰ WP GFCI	WEATHERPROOF IN USE TYPE RECEPTACLE — HWD #GRFT20W W/RW57500 IN USE WEATHERPROOF HOUSING. MOUNT AT 18" TO BOTTOM OF BOX (UNO).			NFDS	
USB USB CHARGING RECEPTACLE WITH 3 AMPS OF USB POWER − HWD #USB15X2W NON-METALIC FLUSH MULTI SERVICE FLOOR BOX WITH UNIVERSAL COVER FOR EITHER CARPET OR TILE AS NECESSARY. COORDINATE WITH ARCHITECT. FLOOR BOX TO ACCOMODATE DUPLEX CONVENIENCE RECEPTACLE AND (4) TELE//DATA PORTS. HWD SYSTEM ONE TYPE. 10-30R (4) TELE//DATA PORTS. HWD SYSTEM ONE TYPE. 110-30R SPECIAL PURPOSE OUTLET − NEMA CONFIGURATION (VOLTAGE, AMPACITY) AS NOTED ON DRAWINGS SURFACE MOUNTED DUAL COMPARTMENT RACEWAY WITH DEVICES AS SHOWN HUBBELL #HBL4750 SERIES ALUMINUM POWER POLE − HUBBELL WIRING DEVICE #HBLPPOAL W/ATB − (10') SURFACE MOUNTED DUAL WIRING DEVICE #HBLPPOAL W/ATB − (10')	ф ю	ISOLATED GROUND TYPE RECEPTACLE - HWD #IG5362 W/ SS8 COVERPLATE.			OHE	
FOR EITHER CARPET OR TILE AS NECESSARY, COORDINATE WITH ARCHITECT. FLOOR BOX TO ACCOMODATE DUPLEX CONVENIENCE RECEPTACLE AND (4) TELE//DATA PORTS. HWD SYSTEM ONE TYPE. SPECIAL PURPOSE OUTLET - NEMA CONFIGURATION (VOLTAGE, AMPACITY) AS NOTED ON DRAWINGS SURFACE MOUNTED DUAL COMPARTMENT RACEWAY WITH DEVICES AS SHOWN HUBBELL #HBL4750 SERIES ALUMINUM POWER POLE - HUBBELL WIRING DEVICE #HBLPPOAL W/ATB - (10') TC TIME CLOCK UGE UNDERGROUND ELECTRIC UON UNLESS OTHERWISE NOTED VFD VARIABLE FREQUENCY DRIVE	⊕ n≥B	USB CHARGING RECEPTACLE WITH 3 AMPS OF USB POWER - HWD #USB15X2W			SDBC	l .
FLOOR BOX TO ACCOMMODATE DUPLEX CONVENIENCE RECEPTACLE AND (4) TELE//DATA PORTS. HWD SYSTEM ONE TYPE. TC TIME CLOCK UGE UNDERGROUND ELECTRIC AS NOTED ON DRAWINGS SURFACE MOUNTED DUAL COMPARTMENT RACEWAY WITH DEVICES AS SHOWN HUBBELL #HBL4750 SERIES ALUMINUM POWER POLE – HUBBELL WIRING DEVICE #HBLPPOAL W/ATB – (10') TC TIME CLOCK UGE UNDERGROUND ELECTRIC UON UNLESS OTHERWISE NOTED VFD VARIABLE FREQUENCY DRIVE		FOR EITHER CARPET OR TILE AS NECESSARY. COORDINATE WITH ARCHITECT.			SP	SURGE PROTECTION
SURFACE MOUNTED DUAL COMPARTMENT RACEWAY WITH DEVICES AS SHOWN HUBBELL #HBL4750 SERIES ALUMINUM POWER POLE – HUBBELL WIRING DEVICE #HBLPPOAL W/ATB – (10') ALUMINUM POWER POLE – HUBBELL WIRING DEVICE #HBLPPOAL W/ATB – (10')		FLOOR BOX TO ACCOMODATE DUPLEX CONVENIENCE RECEPTACLE AND (4) TELE//DATA PORTS. HWD SYSTEM ONE TYPE.			тс	TIME CLOCK
HUBBELL #HBL4750 SERIES ALUMINUM POWER POLE - HUBBELL WIRING DEVICE #HBLPPOAL W/ATB - (10') VFD VARIABLE FREQUENCY DRIVE		SPECIAL PURPOSE OUTLET - NEMA CONFIGURATION (VOLTAGE, AMPACITY) AS NOTED ON DRAWINGS			UGE	UNDERGROUND ELECTRIC
		SURFACE MOUNTED DUAL COMPARTMENT RACEWAY WITH DEVICES AS SHOWN HUBBELL #HBL4750 SERIES			UON	UNLESS OTHERWISE NOTED
WP WEATHERPROOF		ALUMINUM POWER POLE - HUBBELL WIRING DEVICE #HBLPPOAL W/ATB - (10')			VFD	VARIABLE FREQUENCY DRIVE
					WP	WEATHERPROOF

^{1.} NOT ALL SYMBOLS MAY APPLY TO THIS PROJECT.

LIGHT FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NO.	VOLTS	QTY	LAMPS TYPE	REMARKS
Α	METALUX	# HBLED-LD4-24-W-A-UNV-L840-CD2-U	120V	-	203W LED 40K	PENDANT MOUNTED 2X4 HIGH BAY LED WITH LENS AND WIDE DISTRIBUTION. HANG TO 18'
В	METALUX	# 24FR-LD4-40-UNV-L835-CD1-U	120V	_	36W LED 35K	2X4 RECESSED ARCHITECTURAL LED TROFFER.
С	HALO	# PD615-ED010-PDM6A-935-61VH-WF	120V	_	15W LED 35K	RECESSED LED DOWNLIGHT WITH 35K COLOR AND WHITE FLANGE
D	METALUX	# 4WNLED-LD4-40SL-F-UNV-L835-CD1-U	120V	_	36W LED 35K	SURFACE MOUNTED LED WRAPAROUND FIXTURE.
E	METALUX	# 22CZ-LD4-34-UNV-L835-CD1-U	120V	_	35W LED 35K	2X2 RECESSED ARCHITECTURAL DIRECT/INDIRECT LED TROFFER.
EM	SURE LITES	# CC7	120V	*****	INCLUDED	SELF CONTAINED WET LOCATION BATTERY PACK FIXTURE WALL MOUNTED OVER EXIT DOORS
F	METALUX	# 24CZ-LD4-40-UNV-L835-CD1-U	120V	_	33W LED 35K	2X4 RECESSED ARCHITECTURAL DIRECT/INDIRECT LED TROFFER.
G	McGRAW- EDISON	# GWC-AE-01-LED-E1-SL4-CTBS-*	120V	_	56W LED 40K	SOLID STATE LED TYPE 4 FORWARD THROW LED WALLPACK MOUNTED AT 9'6" AFF
Н	HALO	# HU1048D930-CTBS	120V		10W LED 35K	4' UNDERCABINET LED FIXTURE. COLOR TO BE DETERMINED BY ARCHITECT.
l	HALO	# HU1024D930-CTBS	120V	_	10W LED 35K	2' UNDERCABINET LED FIXTURE. COLOR TO BE DETERMINED BY ARCHITECT.
J	METALUX	# 2BCLED-LD4-20SL-F-UNV-835-CD1-U	120V	_	23W LED 35K	WALL MOUNTED 2' LED BRACKET FIXTURE MOUNTED OVER MIRROR. VERIFY MTG. HEIGHT
K	BETA CALCO	# 32-5166-CTBS	120V	_	32W LED 40K	51" TALL EXTERIOR RATED LED SCONCE MOUNTED AT 9' AFF TO TOP OF FIXTURE
L	BETA CALCO	# 322766-CTBS	120V	-	16W LED 40K	27" TALL EXTERIOR RATED LED SCONCE MOUNTED AT 6' AFF TO TOP OF FIXTURE
М	EUREKA	# 4411-GGC-LED.24.30-120-DV-AC*-RC	120V	-	24W LED 30K	DECORATIVE 20" DIAMETER FABRIC SHADE LED PENDANT. COORD. MTG HEIGHT W/ ARCH.
N	LUMINAIRE LED	# AEL36-15W-4000K-120-DP-EMB310	120V	_	15W LED 40K	ARCHITECTURAL EGRESS LIGHT FIXTURE MOUNTED OVER 3' DOOR WITH EMERG BATTERY.
0	HALO	# SLD606935WH	120V	-	12W LED 35K	RECESSED LED DOWNLIGHT
Р	HUNTER	# TBD	120V	_	N/A	42" FOUR BLADE WHITE CEILING FAN WITH LUTRON FAN CONTROL MODULE
Q	HUNTER	# TBD	120V	_	LED	42" FOUR BLADE WHITE CEILING FAN WITH LUTRON FAN CONTROL MODULE AND LIGHT KIT
X	SURE LITES	# EUX7RSD	277V	-	LED	WALL MOUNTED SINGLE FACE EDGE-LIT LED EXIT LIGHT WITH EMERGENCY BATTERY PACK

LIGHT FIXTURE SCHEDULE NOTES:

- 1. ALL PRODUCTS SPECIFIED HEREIN ARE TO BE PROVIDED THROUGH ARKANSAS BASED ELECTRICAL DISTRIBUTORS ONLY.
- 2. SUBSTITUTIONS MUST MATCH QUALITY AND AESTHETICS OF SPECIFIED PRODUCTS AND WILL ONLY BE CONSIDERED WHEN SUBMITTED PRIOR TO BID AS DEDUCTIVE ALTERNATE. CONTRACTOR MUST SECURE WRITTEN APPROVAL FROM ENGINEER NO LATER THAN 10 DAYS PRIOR TO BID.

GENERAL NOTES

- 1. ALL WORK SHALL COMPLY WITH THE 2014 EDITION OF THE NATIONAL ELECTRIC CODE (N.E.C.).
- 2. THE SPECIFICATIONS ARE AS BINDING ON THE CONTRACTOR AS THE DRAWINGS. THE CONTRACTOR SHALL READ THE SPECIFICATIONS AND SHALL INCLUDE ALL ITEMS REQUIRED BY THE SPECIFICATIONS BEFORE SUBMITTING A BID.
- 3. MINIMUM WIRE SIZE SHALL BE #12 AWG UNLESS OTHERWISE NOTED. MINIMUM CONDUIT SIZE SHALL BE 3/4" UNLESS OTHERWISE NOTED. ALL CONDUIT SHALL BE CONCEALED UNLESS OTHERWISE NOTED. ALL CONDUIT IN OR BELOW FLOOR SLABS AND BELOW GRADE SHALL BE 1" MINIMUM UNLESS OTHERWISE NOTED.
- 4. EACH CIRCUIT SHALL HAVE AN EQUIPMENT GROUNDING CONDUCTOR. MULTI-WIRE CIRCUITS FOR SINGLE PHASE LOADS SHALL NOT SHARE NEUTRALS. EACH SINGLE PHASE 120V OR 277V CIRCUIT SHALL HAVE A DEDICATED NEUTRAL CONDUCTOR PER PHASE. MINIMUM EQUIPMENT GROUND AND NEUTRAL SHALL BE #12AWG COPPER.
- 5. ALL CONDUCTORS #10 AND SMALLER SHALL BE SOLID COPPER, EXCEPT WHERE FLEXIBILITY IS REQUIRED, AND ALL CONDUCTORS #8 AND LARGER SHALL BE STRANDED COPPER USING BOLTED LUGS AT TERMINALS.
- 6. ALL ELECTRICAL EQUIPMENT (CONDUIT, BOXES, SUPPORTS, ETC.) INSTALLED IN EXPOSED CEILING AREAS SHALL BE PAINTED AS DIRECTED BY THE ARCHITECT.
- 7. PVC CONDUIT IS NOT ALLOWED EXCEPT FOR UNDERGROUND SERVICE FEEDERS OR PANEL FEEDERS. ELBOWS AND RISERS TO 6" ABOVE FLOOR/GRADE TO BE GRS. UNDERGROUND CONDUITS PENETRATING CONCRETE ARE TO BE NEATLY ORGANIZED.
- 8. THE ELECTRICAL CONTRACTOR SHALL CLOSELY COORDINATE WITH MECHANICAL & PLUMBING CONTRACTORS FOR EXACT LOCATION AND EQUIPMENT CONNECTIONS OF ALL PLUMBING AND MECHANICAL EQUIPMENT SCHEDULED ELSEWHERE ON DRAWINGS.
- 9. BRANCH CIRCUITS TO 5 HORSEPOWER AND LARGER THREE PHASE MOTORS SHALL BE PROVIDED WITH PHASE LOSS PROTECTION. PHASE LOSS SHALL BE INTEGRAL TO DRIVES AND/OR STARTERS SERVING MOTOR.

GENERAL NOTES

- 10. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER SIZING OF ALL MOTOR OVERLOAD DEVICES (HEATERS) IN STARTERS BASED ON ACTUAL NAMEPLATE RATINGS ON THE MOTORS BEING INSTALLED PER N.E.C. 430.6(A)(2).
- 11. ALL LOW VOLTAGE INTERLOCKING OF HVAC EQUIPMENT SHALL BE BY THE CONTROLS CONTRACTOR. ALL OTHER "LINE/LOW VOLTAGE" WIRING SHALL BE BY THE ELECTRICAL CONTRACTOR AND SHALL BE IN CONDUIT. COORD. WITH OTHER TRADES.
- 12. TELE/DATA OUTLETS AS INDICATED IN LEGEND ARE TO BE INSTALLED AND CONNECTED AS PER INDUSTRY STANDARD AND IN ACCORDANCE WITH OWNERS IT PROTOCOL. COORDINATE ALL EQUIPMENT SELECTION, CABLE ROUTING, CABLE MANAGEMENT AND LABELING WITH IT DEPARTMENT PRIOR TO BEGINNING WORK.
- 13. ALL WIRING RUN EXPOSED ABOVE CEILING SHALL BE PLENUM RATED.
- PROVIDE (2) 2"C SLEEVES ABOVE CEILING BETWEEN CORRIDOR AND ANY 2 HOUR RATED BLOCK WALLS FOR FUTURE USE.
- 15. MOUNTING HEIGHT ABOVE FLOOR TO BOTTOM OF DEVICE OUTLET BOX SHALL BE AS FOLLOWS FOR RECEPTACLES, MICROPHONE OUTLETS, TELEPHONE, TELEVISION AND COMPUTER OUTLETS SHOWN ON PLANS UNLESS NOTED OTHERWISE:

GENERAL THROUGHOUT MECHANICAL EQUIPMENT ROOMS ABOVE COUNTER TOPS 30" H

ABOVE BACKSPLASH TOP AVOVE RADIATORS ABOVE OR ADJACENT TO LAVATORIES BEHIND DOMESTIC REFRIGERATORS BEHIND DOMESTIC WASHERS/DRYERS SERVING DOMESTIC DISHWASHERS WALL MOUNTED TELEPHONES TOGGLE SWITCHES

PULL STATIONS (FIRE ALARM) CALL IN STATION'S (INTERCOM) HORN/STROBES (FIRE ALARM)

16. CONTRACTOR SHALL VISIT SITE PRIOR TO BID AND SECURE A FULL SET OF CONTRACT DOCUMENTS TO ENSURE COMPLETE ELECTRICAL BID PACKAGE.

> TE OF AUTA NATIONAL . E : ENGINEERING: ਹੋਂ: SERVICES, PLLC 元· No. 2259 . : 公



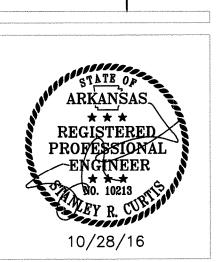
PH: 501.235.3270 FAX: 501.235.3272 WWW.NES-ENG.COM

" MINIMUM

6" MINIMUM

A PROJECT FOR:

Golf Course Drive, Searcy, Arkansas



(C) COPYRIGHT 2016 HOFFMANN ARCHITECTURAL INC. THIS DOCUMENT IS ISSUED AS AN

INSTRUMENT OF SERVICE AND IS FOR THE PRODUCTION OF A SINGLE FACILITY AS NOTED IN THE SHEET TITLE. OWNERSHIP OF THIS DOCUMENT IS RETAINED BY HOFFMANN ARCHITECTURAL INC.. UNAUTHORIZED REPRODUCTION IS PROTECTED BY THE COPYRIGHT LAWS OF THE UNITED STATES AND IS

HEREWITH PROHIBITED.

DATE: 10/28/16

REVISIONS:

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON SITE PRIOR TO ORDERING MATERIALS OR CONSTRUCTION.

DRAWN BY:

ELECTRICAL SYMBOLS AND NOTES

SRC

SHEET:

^{2.} SYMBOLS SHOWN DASHED ON PLANS INDICATES EXISTING DEVICES, FIXTURES, EQUIPMENT, ETC.

1. GENERAL REQUIREMENTS:

A. GENERAL CONDITIONS: The bidders will examine a complete set of construction documents to avoid omissions, duplications and to ensure complete and working execution of the work for electrical construction.

B. GENERAL: The work under this section shall include labor, materials and equipment and incidental costs necessary to furnish and install electrical work, equipment, lamps, etc. indicated on drawings, as specified herein, or both.

C. SCOPE: Furnish labor, materials, tools, equipment, etc., required for a complete installation of electrical systems and work, in accordance with federal, state, and local codes, and governing bodies having jurisdiction.

2. WORKMANSHIP:

A. Use capable and experienced superintendents, authorized by the contractor to instruct work, make job decisions and act for the contractor in matters pertaining to the contract documents.

3. PERMITS, TESTS AND INSPECTIONS:

A. Apply for, secure and pay for required permits, fees, licenses and royalties to accomplish the work.

B. Apply for, secure and pay for required tests and inspections necessary to accomplish the work in conformance with codes and governing bodies having jurisdiction.

4. CODES, RULES, AND REGULATIONS:

A. The contractor shall furnish, without extra charge, any additional materials and labor that may be required for compliance with governing laws, rules and regulations even though the work is not mentioned in these specifications or shown on the drawings. Nothing in plans or specifications shall be deemed as authority to violate any governing code.

B. Product shall be UL and CSA certified and labeled. Meet listed NEMA standards and be suitable for the intended use/service required for the device.

5. ACCURACY OF DATA:

A. The data given herein and on the drawings are as exact as could be secured, but their absolute accuracy is not guaranteed. The specifications and drawings are for the assistance and guidance of the contractor. Exact locations, distances, levels, etc. will be governed by the site conditions. The contractor shall use the data contained herein with this understanding.

6. CLEAN-UP:

A. Remove surplus material, equipment and debris incidental to this work and leave the premises in a condition acceptable to the owner and tenant (if applicable).

7. GUARANTEE:

A. Furnish a written certified guarantee, in acceptable form to owner, against any defective workmanship, material and operating equipment. This guarantee shall be in force and effective for a period of (1) year after acceptance of the installation.

8. STRUCTURAL CONDITIONS:

A. Notching and boring of structural members will not be permitted unless approved in writing by the structural engineer. Where notches and holes are approved they shall be carefully held to the minimum sizes actually required.

9. BASIC MATERIALS AND METHODS:

A. RACEWAYS AND BOXES

1. Where size of raceway or boxes are not indicated, the electrical sub-contractor shall size these items as required by code.

2. Raceways shall be rigid metal conduit unless otherwise indicated.

3. Intermediate metal conduit may be used wherever rigid conduit is required except for raceways embedded in concrete slabs, in contact with the earth, underground not encased in concrete and in corrosive locations.

4. Electrical metallic tubing may be used for raceways above furred ceilings, within dry wall partitions, in equipment rooms where not subject to physical damage.

5. Schedule 40 PVC may be used underground or in areas indicated on drawings provided elbows and penetrations thru slab are rigid steel.

6. Wiring connections to motors, transformers, or other devices, which are subject to vibration or require adjustment, shall be flexible metallic conduit. The flexible metal conduit shall not exceed 18 inches in length. Where these connections are outdoors, or in damp locations, or are connections to any kitchen or commercial laundry type equipment, liquid tight flexible conduit shall be used.

7. Elbows shall be of the same materials as the conduit except for PVC installations. All PVC conduit systems shall have rigid metal elbows unless otherwise noted. Elbows in EMT and small rigid conduits may be job—fabricated with a bender made specifically for the purpose.

8. Conduits shall be sized as indicated on the drawings and as required to accommodate the wires to be pulled into the conduit. Conduit shall not be less than three-quarters inch (3/4).

9. For each thermostat (by HVAC), provide 4 X 4 outlet box with 3/4" empty conduit. Stubbed up into hung ceiling and bushed. Provide steel drag wire for each location.

10. Provide pull line in all empty raceways.

11. Type NMC wire may be used in lieu of wire/raceway for branch circuit wiring (dwelling units only) where allowed by both the 2005 National Electrical Code and State/Local Codes.

10. GROUNDING:

A. Non-current equipment, including the following items, shall be properly grounded:

1. Secondary feeder conduit and equipment enclosures.

2. Panelboard enclosures, pull and junction boxes, cable troughs.

3. Conduits, metal molding and outlet boxes.

4. Equipment housings exposed on the structure or on grade.

11. MOTOR AND RELATED EQUIPMENT WIRING:

A. Provide required conduit, wiring and safety switches for motors, and other related electrical equipment.

B. Motors shall be furnished and set under other divisions. The work of this division shall include necessary all connections to ensure proper operation and control.

C. Starting devices, motor controllers, float switches, level sensors, alarm devices, remote control pushbuttons, etc., unless specified by others shall be provided under this contract. Contractor shall set these devices and provide all connections.

12. WIRING DEVICES:

A. Devices shall be UL and CSA certified, listed NEMA Standard, and suitable for the service required for the intended use of the device in this installation.

B. Where devices manufactured by Arrow Hart, Bryant, Hubbell, P & S, Leviton, Walker/Wiremold, Thomas & Betts, Square D, or Sierra are named, only equivalent devices by the other of these manufacturers will be acceptable. Unless otherwise indicated, devices shall be as follows:

1. Wall Switches: 15 ampere/20 ampere, 120 volt AC, back or side wired

2. Dimmer Switches: 20 ampere, 120 volt AC, Sized to accomodate load

3. Convenience Outlets: Duplex receptacles, 15 and 20 ampere, 125 volt side and back wired with a pair of NEMA 5-15R

15 and 20 ampere, 125 volt side and back wired with a pair of NEMA 5—15R Standard 3 contact grounded parallel slot contacts. Devices to be white unless otherwise directed by owner/architect.

4. Isolated Grounded Receptacles: NEMA 5—20R. 3 contact Grounded parallel Slot contacts. Provide stainless steel coverplate.

5. Ground Fault Circuit Interrupter Convenience Outlets: Side wired 20 ampere, 120 volt with appropriate wall plate. (Provide within 6' of sink and/or outdoors)

6. Special equipment outlets shall be furnished and installed to match the connecting plugs as provided by the owner on specialized equipment.

7. Manual Motor Starters: Overload heater sized to the motor nameplate rating.

C. COVERPLATES:

1. General: Opening in Plates shall properly fit the wiring Devices associated with the outlets. Plates shall overlap outlet box edges for installation over finished room surfaces and shall be the non—over hanging type to fit condulet boxes used with exposed conduit runs. All plates shall be type high impact white thermoplastic type coverplates with matching screws unless otherwise noted.

2. All Outlet boxes are to be provided with Coverplate, even those for use by others.

13. WIRE AND CABLES:

A. Branch circuit wiring may be grounded 3 conductor non metallic sheathed Type NM or NMC where allowed by City and Federal codes.

B. No wire shall be smaller than No. 12 AWG except #14 may be used for residential branch circuit wiring for lighting and general purpose receptacles and control wiring.

All wire No. 8 and larger shall be stranded type. All wire No. 10 and smaller shall be solid.

C. Wire and cable shall be factory color coded. Colors for each phase and neutral shall be used consistently throughout each system. The following color codes shall be used and maintained throughout the system:

120/208 V SYSTEMS 277/480 V SYSTEMS

Phase A Phase C Blue White Yellow with Tracer Phase B Red Orange Green Green

D. Homeruns more than 100 feet shall be minimum #10 AWG Cu wire unless noted otherwise. Homeruns more than 225 feet shall be minimum #8 AWG Cu wire unless noted otherwise. Contractor shall adjust the wire size accordingly.

14. LIGHTING AND POWER PANELS:

A. Panelboards (commercial projects) shall be circuit breaker type with copper buss installed in code gauge galvanized sheet steel cabinets, flush or surface mounted as indicated on drawings. Each cabinet shall be complete with hinged doors, cylinder lock, directory frame and neatly typed directory charts. All panels shall be keyed alike.

B. Load Centers (residential grade projects only) shall be circuit breaker type with tin plated aluminum buss installed in galvanized steel cabinets, flush or surface mounted as indicated on drawings Each cabinet shall be complete with hinged doors, cylinder lock, directory frame and neatly typed directory charts. All load centers shall be keyed alike.

B. The branch circuit breakers, in general, shall be molded case, bolt—on type, rated 10,000 AIC for 120/240V, 14,000 AIC for 480/277 Volt Systems or larger interrupting capacity as may be indicated on plans. Thermal magnetic trip, single, two or three pole as shown on drawings. Multiple pole breakers for panels where indicated on the drawing schedules. Main breaker characteristics shall be as indicated on the drawings. Main buswork of all panels shall, as a minimum, be designed to carry the full rating of the feeder switch supplying the panel, at a current density of 800 amperes per square inch of cross section. Buswork shall be high conductivity copper.

C. Panel sections shall be such that no live parts are exposed after installation. They shall be so arranged that each breaker is readily removable from the panel without disturbing adjacent breakers.

D. Phase legs shall be alternately bussed to each circuit breaker in a manner to affect balancing the branch circuit connections as nearly as possible over each phase.

E. Branch panelboards on 240/120V systems shall be equipped with GE type THQB; square D type QOB; or Westinghouse type BAB bolt—in circuit breakers with a minimum interrupting capacity of 10,000 amperes symmetrical on 120 VAC, 60 Hertz. Where indicated on panelboard schedules higher interrupting capacities shall be furnished.

F. Provide a neatly, typewritten directory of circuits for each existing panelboard as indicated for additions or modifications.

15. LIGHTING FIXTURES:

A. Lighting fixtures shall be supplied and stored by the contractor. The contractor shall be responsible for the repair or replacement of any defective fixtures.

B. The contractor shall provide the necessary labor and materials for the complete installation of the lighting fixtures as indicated on the drawings.

C. Lamps shall be povided as specified or required for all fixtures. Contractor shall provide burn—in time per the manufacturer's recommendation.

D. See electrical drawings for light fixture description.

16. LIGHTING ACCESSORIES:

A. Furnish and install equipment for lighting control of night and exterior lighting fixtures as indicated on the contract documents.

B. Contactors shall be mounted not higher than 6'-6" above finished floor to top of cabinet and not lower than 4'-0" finished floor to bottom surface of cabinet.

C. Test system to assure satisfactory operation upon completion of installation. Supply manufacturer brochures and manuals to owner's representative.

17. DISCONNECT SWITCHES:

A. Disconnect switches serving motor loads shall be properly NEMA rated. They shall be environmentally rated for the areas where located with NEMA rain—tight construction for units located outdoors.

B. Disconnects shall be heavy duty, quick—make and quick—break. They shall be fused type as indicated in the contract documents.

C. Install disconnects for motors, controllers and other equipment as indicated in the contract documents.

18. FUSES:

7

28.00 mg (2) and (2) and

A. Furnish and install required fuses in each device furnished under Division 16.

B. Fuse for motor loads shall be time delay.

19. METERING:

A. Metering will be accomplished through equipment furnished by the utility co. and installed by the contractor in accordance with the latest utilities company published standards.

B. Contractor shall obtain standard for the required meter enclosure. Contractor shall obtain meter enclosure together with installation instructions and shall furnish labor, material, and tools to properly install the enclosure as directed by the utility company.





earcy ire tation #2

A PROJECT FOR:

Golf Course Drive, Searcy, Arkansas

Sectional Inc



10/28/16

C COPYRIGHT 2016

HOFFMANN ARCHITECTURAL INC.

THIS DOCUMENT IS ISSUED AS AN INSTRUMENT OF SERVICE AND IS FOR THE PRODUCTION OF A SINGLE FACILITY AS NOTED IN THE SHEET TITLE. OWNERSHIP OF THIS DOCUMENT IS RETAINED BY HOFFMANN ARCHITECTURAL INC.. UNAUTHORIZED REPRODUCTION IS PROTECTED BY THE COPYRIGHT LAWS OF THE UNITED STATES AND IS

HEREWITH PROHIBITED.

DATE: **10/28/16**

REVISIONS:

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON SITE PRIOR TO ORDERING MATERIALS OR CONSTRUCTION.

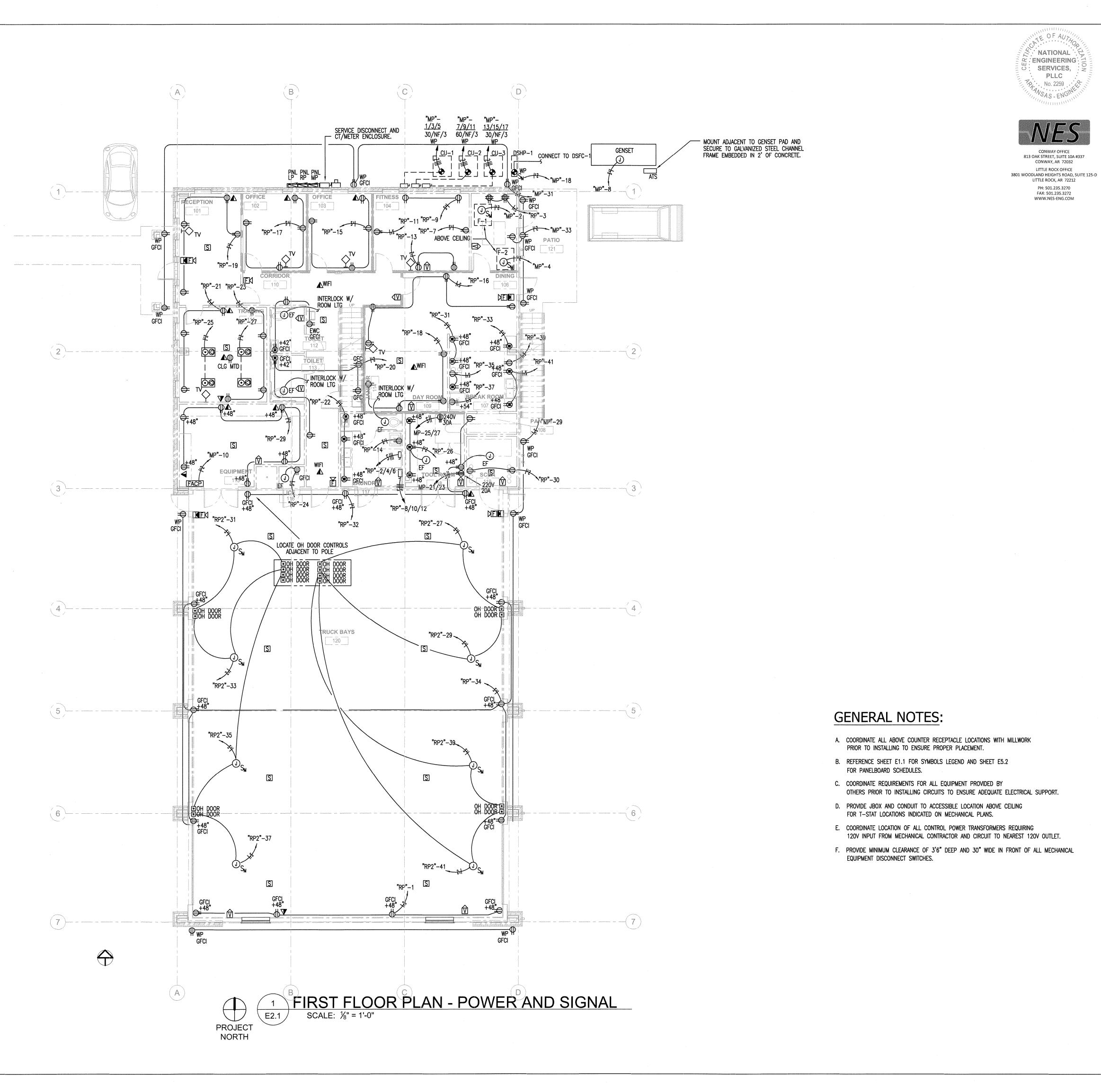
DRAWN BY:

SRC

ELECTRICAL SPECIFICATIONS

SHEET:

E1.2

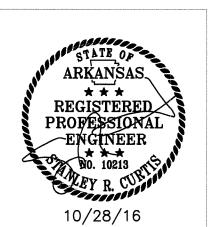


A PROJECT FOR:

Searcy Fire

Golf Course Drive, Searcy, Arkansas

10 Imann 1268.4743 ARCY, ARKANSAS



C COPYRIGHT 2016

COPYRIGHT 2016

HOFFMANN ARCHITECTURAL INC.

THIS DOCUMENT IS ISSUED AS AN INSTRUMENT OF SERVICE AND IS FOR THE PRODUCTION OF A SINGLE FACILITY AS NOTED IN THE SHEET TITLE. OWNERSHIP OF THIS DOCUMENT IS RETAINED BY HOFFMANN ARCHITECTURAL INC.. UNAUTHORIZED REPRODUCTION IS PROTECTED BY THE COPYRIGHT LAWS OF THE UNITED STATES AND IS HEREWITH PROHIBITED.

DATE: 10/28/16

REVISIONS:

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON SITE PRIOR TO ORDERING MATERIALS OR CONSTRUCTION.

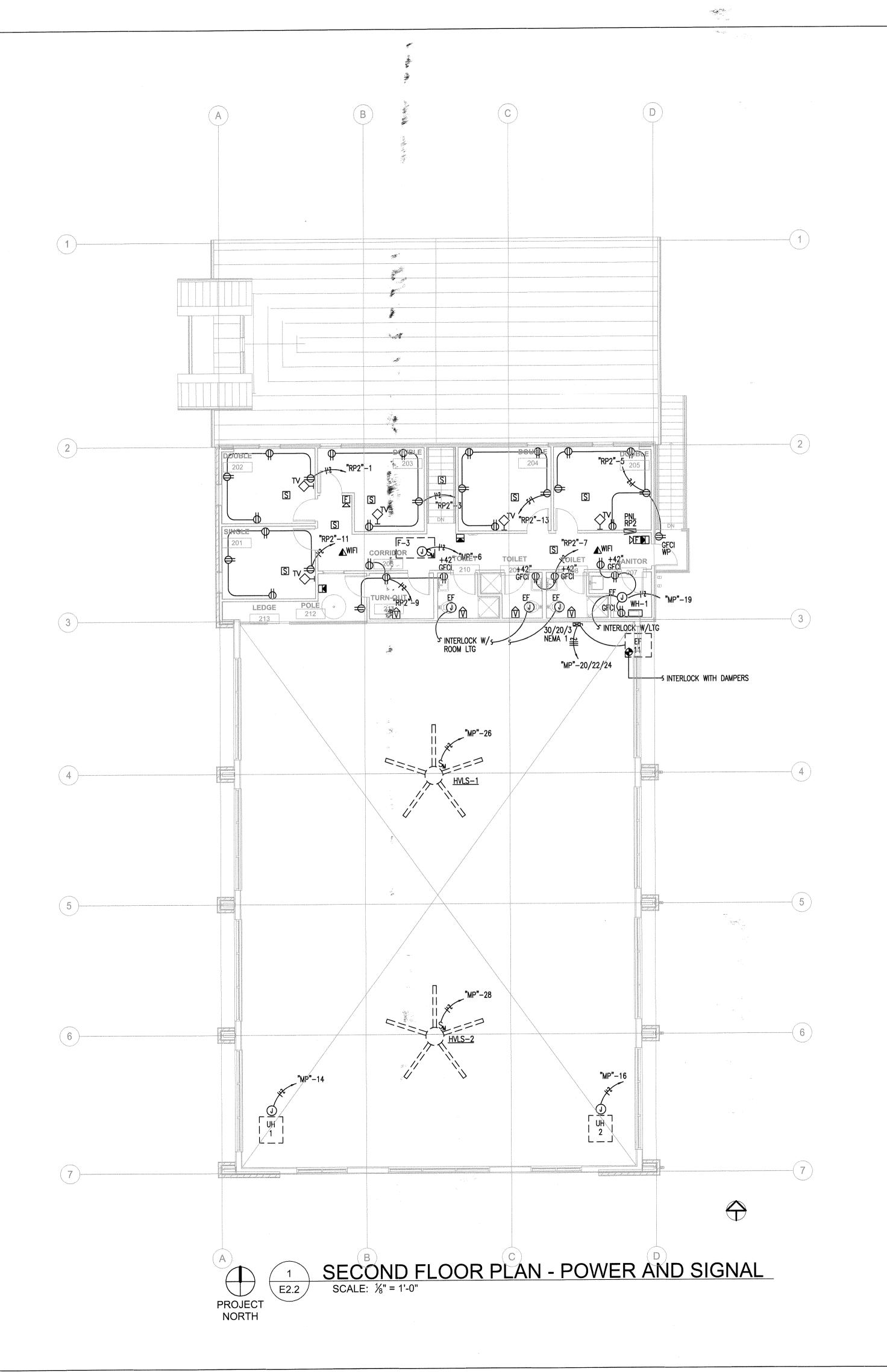
DRAWN BY:

SRC

FIRST FLOOR PLAN -POWER AND SIGNAL

SHEET:

E2.1





CONWAY OFFICE
813 OAK STREET, SUITE 10A #337
CONWAY, AR 72032

LITTLE ROCK OFFICE
3801 WOODLAND HEIGHTS ROAD, SUITE 125-D
LITTLE ROCK, AR 72212

PH: 501.235.3270
FAX: 501.235.3272
WWW.NES-ENG.COM

GENERAL NOTES:

FOR PANELBOARD SCHEDULES.

EQUIPMENT DISCONNECT SWITCHES.

KEYED NOTES:

1) INTERLOCK WITH TOILET LIGHTING AND CONTROLS.

A. COORDINATE ALL ABOVE COUNTER RECEPTACLE LOCATIONS WITH MILLWORK

B. REFERENCE SHEET E1.1 FOR SYMBOLS LEGEND AND SHEETS E5.1 AND E5.2

OTHERS PRIOR TO INSTALLING CIRCUITS TO ENSURE ADEQUATE ELECTRICAL SUPPORT.

120V INPUT FROM MECHANICAL CONTRACTOR AND CIRCUIT TO NEAREST 120V OUTLET.

F. PROVIDE MINIMUM CLEARANCE OF 3'6" DEEP AND 30" WIDE IN FRONT OF ALL MECHANICAL

PRIOR TO INSTALLING TO ENSURE PROPER PLACEMENT.

C. COORDINATE REQUIREMENTS FOR ALL EQUIPMENT PROVIDED BY

D. PROVIDE JBOX AND CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING FOR T-STAT LOCATIONS INDICATED ON MECHANICAL PLANS.

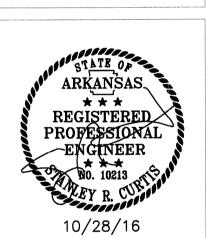
E. COORDINATE LOCATION OF ALL CONTROL POWER TRANSFORMERS REQUIRING

A PROJECT FOR:

Searcy Fire Station #

Golf Course Drive, Searcy, Arkansas

Hoffmann Architectural Inc. 501.268.4743 102 NORTH SPRING STRET



C COPYRIGHT 2016

HOFFMANN ARCHITECTURAL INC.

THIS DOCUMENT IS ISSUED AS AN INSTRUMENT OF SERVICE AND IS FOR THE PRODUCTION OF A SINGLE FACILITY AS NOTED IN THE SHEET TITLE. OWNERSHIP OF THIS DOCUMENT IS RETAINED BY HOFFMANN ARCHITECTURAL INC.. UNAUTHORIZED REPRODUCTION IS PROTECTED BY THE COPYRIGHT LAWS OF THE UNITED STATES AND IS HEREWITH PROHIBITED.

DATE: 10/28/16

REVISIONS:

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON SITE PRIOR TO ORDERING MATERIALS OR CONSTRUCTION.

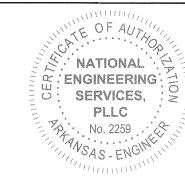
DRAWN BY:

SRC

SECOND FLOOR PLAN
- POWER AND SIGNAL

SHEET:

E2.2





FAX: 501.235.3272 WWW.NES-ENG.COM A PROJECT FOR:

Searcy Fire

Golf Course Drive, Searcy, Arkansas

GENERAL NOTES:

- A. RUN A SEPARATE HOT CONDUCTOR TO THE CHARGING CIRCUIT OF ALL SWITCHED EMERGENCY LIGHTING FIXTURES.
- B. REFERENCE SHEET E1.1 FOR SYMBOLS LEGEND AND SHEET E5.2 FOR PANELBOARD SCHEDULES.
- C. EXIT AND NIGHT LIGHTING FIXTURES (NL) ARE TO BE CIRCUITED UNSWITCHED FOR CONTINUOUS OPERATION.
- D. COORDINATE LOCATION OF BUILDING MOUNTED AREA LIGHTING WITH ARCHITECTURAL ELEVATIONS PRIOR TO MOUNTING. ALL EXTERIOR LIGHTING TO BE ROUTED THRU RELAY AND PHOTOCELL FOR AUTOMATIC CONTROL.

OCCUPANCY SENSOR LEGEND

SWITCH MOUNTED DIGITAL TIMER - GREENGATE #TSW-MV-W

CEILING MOUNTED ULTRASONIC ONLY OCCUPANCY SENSOR GREENGATE #OAC-U-1000-R

CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR GREENGATE #OAC-DT-1000-R

CEILING MOUNTED BIDIRECTIONAL ULTRASONIC ONLY OCCUPANCY SENSOR GREENGATE #OAC-U-2000-R

CEILING MOUNTED BIDIRECTIONAL DUAL TECHNOLOGY OCCUPANCY SENSOR GREENGATE #OAC-DT-2000-R

POWER PACK FOR OCCUPANCY SENSORS (MAX OF 1 PER 3 SENSORS) GREENGATE #SP20MV

INFRA RED SWITCH MOUNTED OCCUPANCY SENSOR GREENGATE #ONW-D-1001-MV

ARKANSAS REGISTERED PROFESSIONAL ENGINEER 10/28/16 C COPYRIGHT 2016

HOFFMANN ARCHITECTURAL INC.

THIS DOCUMENT IS ISSUED AS AN INSTRUMENT OF SERVICE AND IS FOR THE PRODUCTION OF A SINGLE FACILITY AS NOTED IN THE SHEET TITLE. OWNERSHIP OF THIS DOCUMENT IS RETAINED BY HOFFMANN ARCHITECTURAL INC.. UNAUTHORIZED REPRODUCTION IS PROTECTED BY THE COPYRIGHT LAWS OF THE UNITED STATES AND IS HEREWITH PROHIBITED.

DATE: **10/28/16**

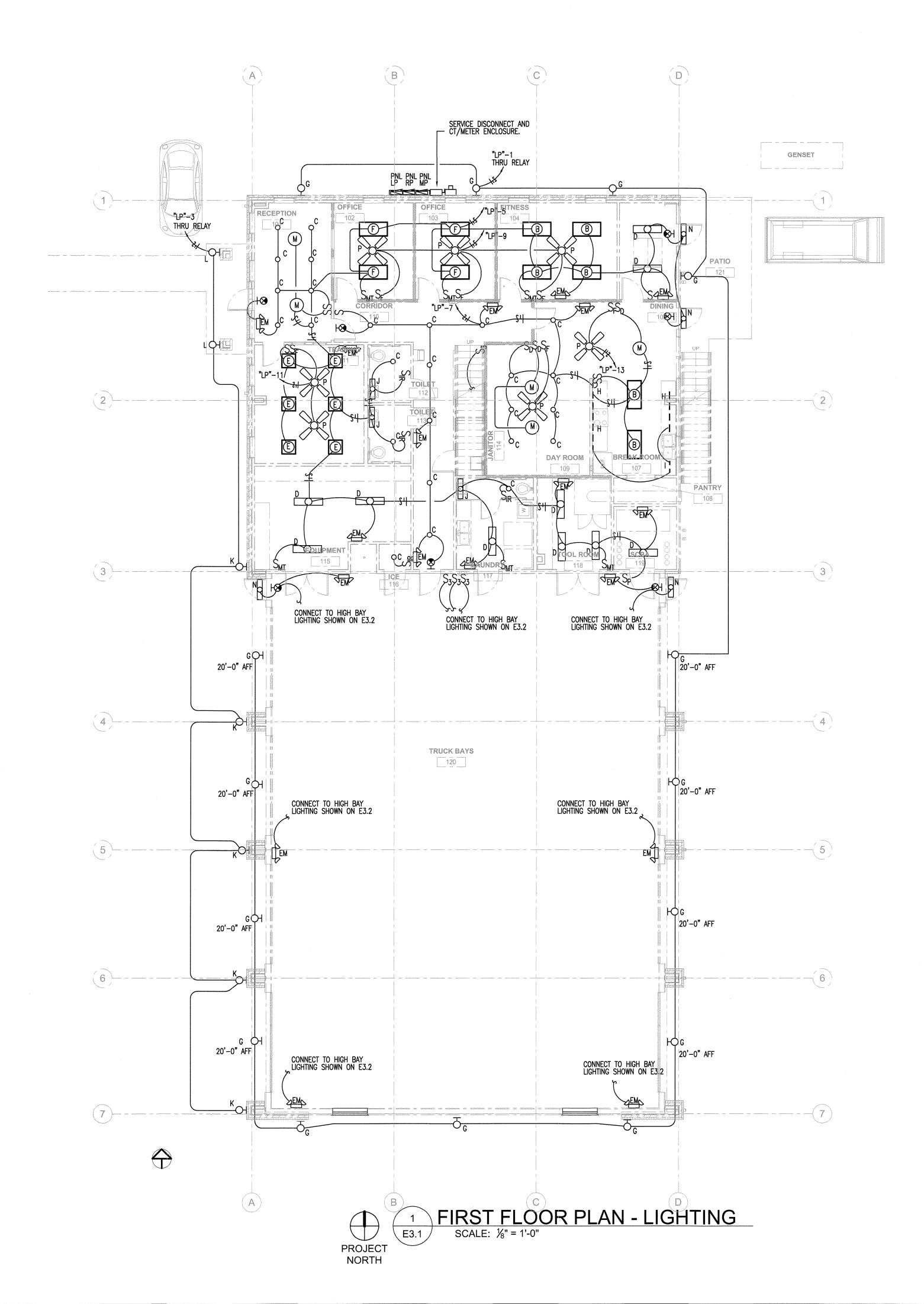
REVISIONS:

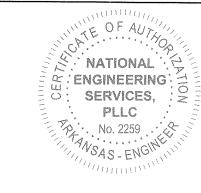
CONTRACTOR MUST CHECK
AND VERIFY ALL DIMENSIONS
AND CONDITIONS ON SITE
PRIOR TO ORDERING
MATERIALS OR CONSTRUCTION.

DRAWN BY: SRC

FIRST FLOOR PLAN -LIGHTING

SHEET: **E3.1**







LITTLE ROCK, AR 72212 PH: 501.235.3270 FAX: 501.235.3272

> Golf Course Drive, Searcy, Arkansas

tatio

earcy

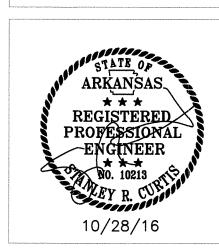
A PROJECT FOR:

GENERAL NOTES:

- A. RUN A SEPARATE HOT CONDUCTOR TO THE CHARGING CIRCUIT OF ALL SWITCHED EMERGENCY LIGHTING FIXTURES.
- B. REFERENCE SHEET E1.1 FOR SYMBOLS LEGEND AND SHEET E5.2 FOR PANELBOARD SCHEDULES.
- C. EXIT AND NIGHT LIGHTING FIXTURES (NL) ARE TO BE CIRCUITED UNSWITCHED FOR CONTINUOUS OPERATION.
- D. COORDINATE LOCATION OF BUILDING MOUNTED AREA LIGHTING WITH ARCHITECTURAL ELEVATIONS PRIOR TO MOUNTING. ALL EXTERIOR LIGHTING TO BE ROUTED THRU RELAY AND PHOTOCELL FOR AUTOMATIC CONTROL.

	OCCUPANCY SENSOR LEGEND
S _{MT}	INFRA RED SWITCH MOUNTED OCCUPANCY SENSOR GREENGATE #ONW-D-1001-MV
S _{DT}	SWITCH MOUNTED DIGITAL TIMER - GREENGATE #TSW-MV-W
US2	CEILING MOUNTED BIDIRECTIONAL ULTRASONIC ONLY OCCUPANCY SENSOR GREENGATE #OAC-U-2000-R
DT2	CEILING MOUNTED BIDIRECTIONAL DUAL TECHNOLOGY OCCUPANCY SENSOR GREENGATE #OAC-DT-2000-R
US1 ▶	CEILING MOUNTED ULTRASONIC ONLY OCCUPANCY SENSOR GREENGATE #OAC-U-1000-R
DT1 ▶ ─	CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR GREENGATE #OAC-DT-1000-R
PP	POWER PACK FOR OCCUPANCY SENSORS (MAX OF 1 PER 3 SENSORS) GREENGATE #SP20MV

Hoffmann
Architectural In
Archisera



C COPYRIGHT 2016

HOFFMANN ARCHITECTURAL INC.

THIS DOCUMENT IS ISSUED AS AN INSTRUMENT OF SERVICE AND IS FOR THE PRODUCTION OF A SINGLE FACILITY AS NOTED IN THE SHEET TITLE. OWNERSHIP OF THIS DOCUMENT IS RETAINED BY HOFFMANN ARCHITECTURAL INC.. UNAUTHORIZED REPRODUCTION IS PROTECTED BY THE COPYRIGHT LAWS OF THE UNITED STATES AND IS HEREWITH PROHIBITED.

DATE:

10/28/16

REVISIONS:

CONTRACTOR MUST CHECK
AND VERIFY ALL DIMENSIONS
AND CONDITIONS ON SITE
PRIOR TO ORDERING
MATERIALS OR CONSTRUCTION.

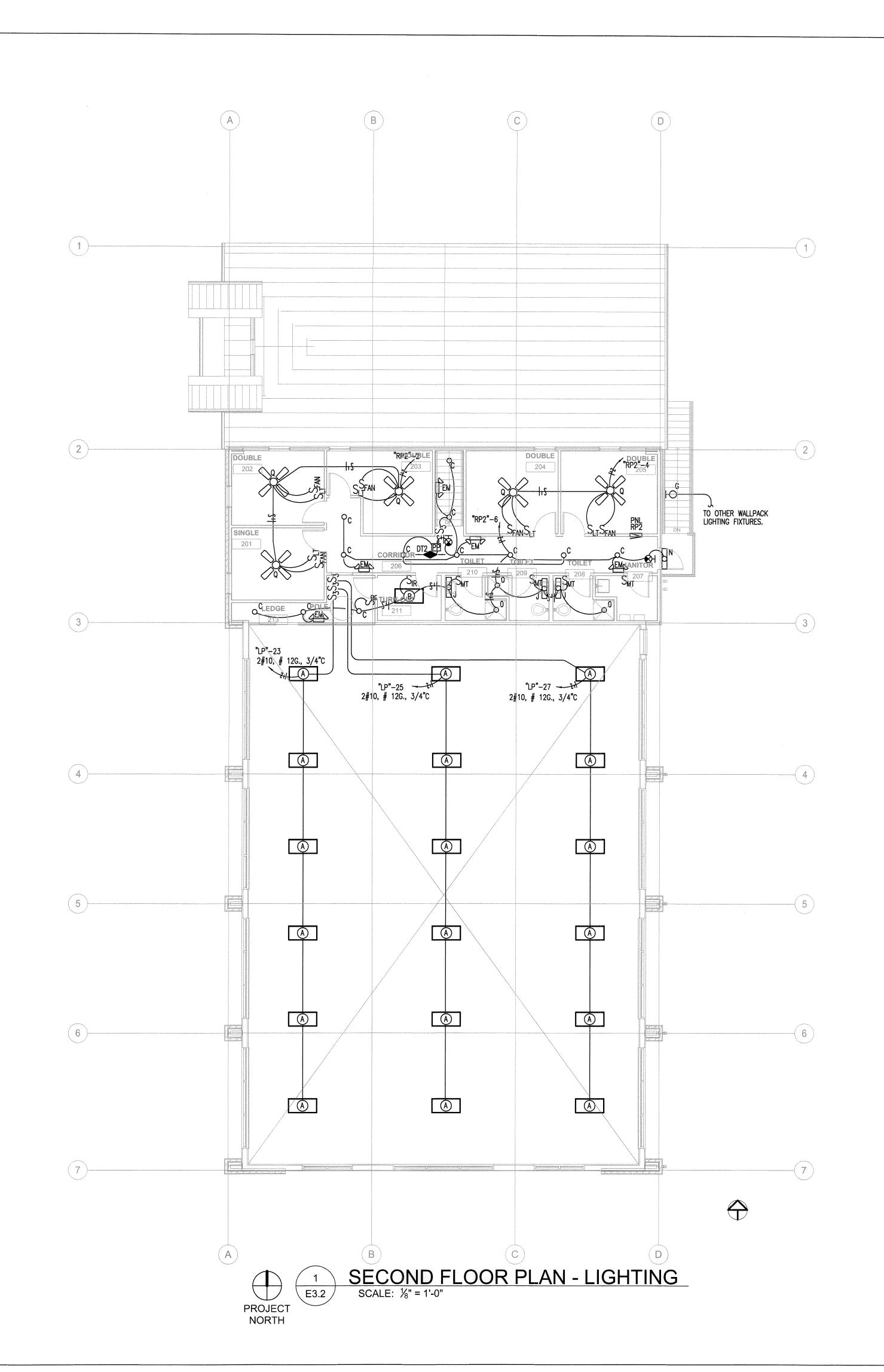
DRAWN BY:

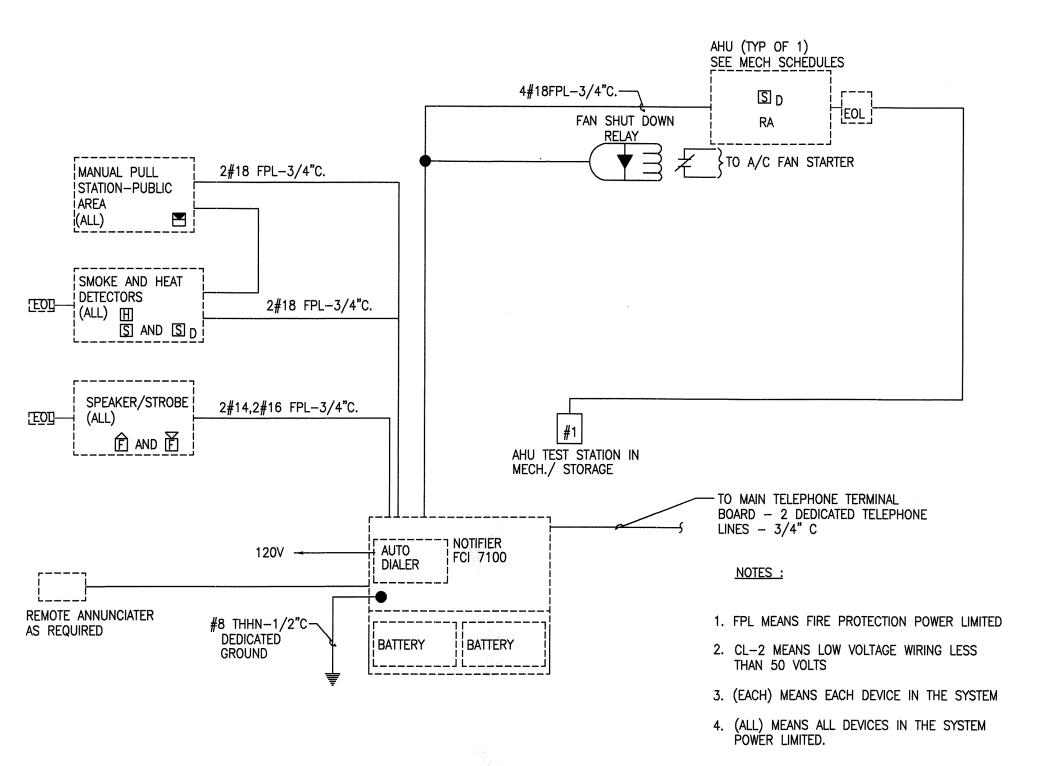
SRC

SECOND FLOOR PLAN
- LIGHTING

SHEET:

E3.2





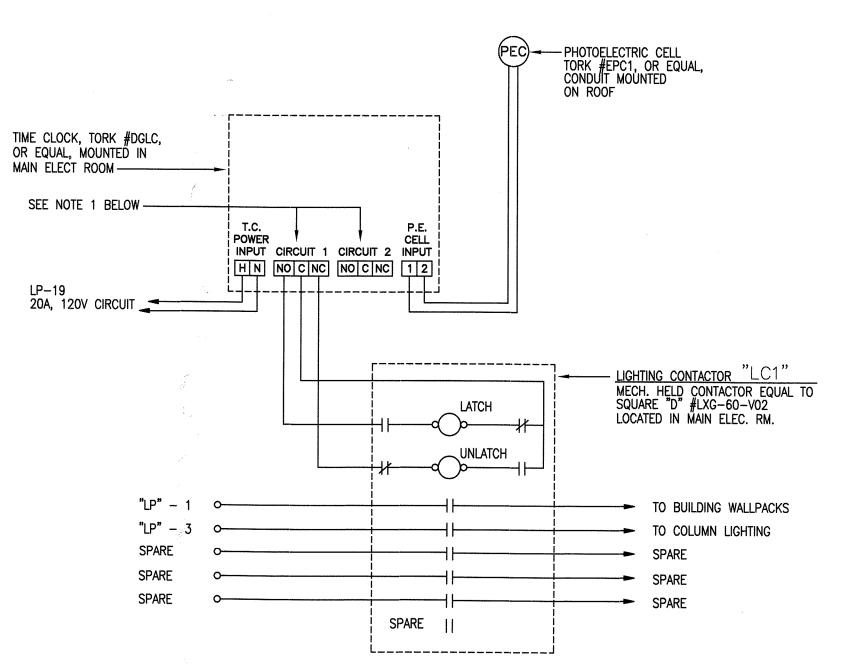
3 FIRE ALARM RISER DIAGRAM

CONTACT TIM CALLIOTTE AT ALARMTEC FOR PRICING AND INSTALLATION OF ALL LOW VOLTAGE SYSTEMS. (501) 834-2079



CONWAY OFFICE 813 OAK STREET, SUITE 10A #337 LITTLE ROCK OFFICE 3801 WOODLAND HEIGHTS ROAD, SUITE 125-D LITTLE ROCK, AR 72212 PH: 501.235.3270

FAX: 501.235.3272 WWW.NES-ENG.COM



NOTE:

1. TIME CLOCK CIRCUIT #1 PROVIDES (PHOTO ON / TIME OFF) OPERATION. CIRCUIT #2 PROVIDES (TIMECLOCK ON / TIMECLOCK OFF) OPERATION. VERIFY DESIRED OPERATION WITH OWNER.

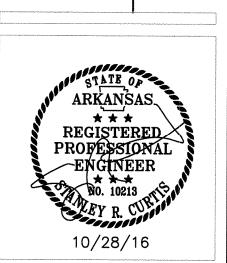
5 EXTERIOR LIGHTING CONTROL DIAGRAM NOT TO SCALE

A PROJECT FOR:

#2 0 earcy tati

Golf Course Drive, Searcy, Arkansas

fmann



C COPYRIGHT 2016 HOFFMANN ARCHITECTURAL INC. THIS DOCUMENT IS ISSUED AS AN INSTRUMENT OF SERVICE AND IS FOR THE PRODUCTION OF A SINGLE FACILITY AS NOTED IN THE SHEET TITLE. OWNERSHIP OF THIS DOCUMENT IS RETAINED BY HOFFMANN ARCHITECTURAL INC.. UNAUTHORIZED REPRODUCTION IS PROTECTED BY THE COPYRIGHT LAWS OF THE UNITED STATES AND IS HEREWITH PROHIBITED.

DATE: 10/28/16

REVISIONS:

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON SITE PRIOR TO ORDERING MATERIALS OR CONSTRUCTION.

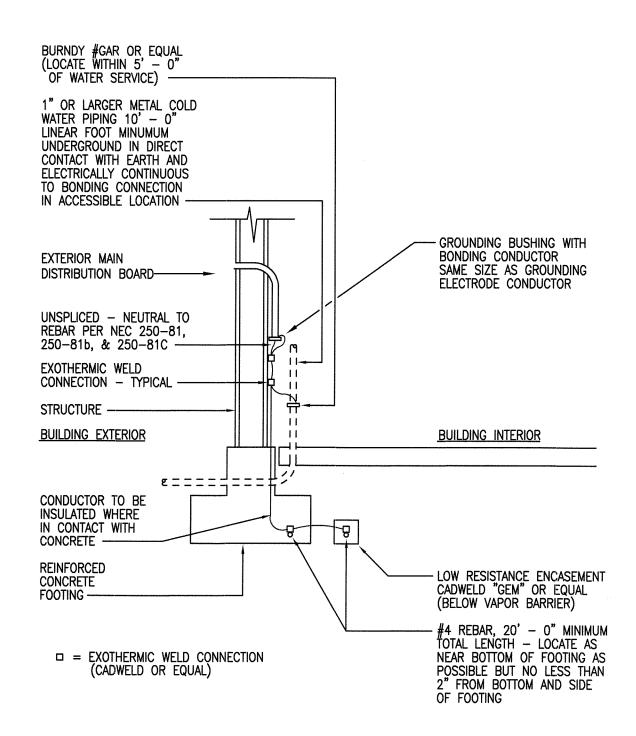
DRAWN BY:

SRC

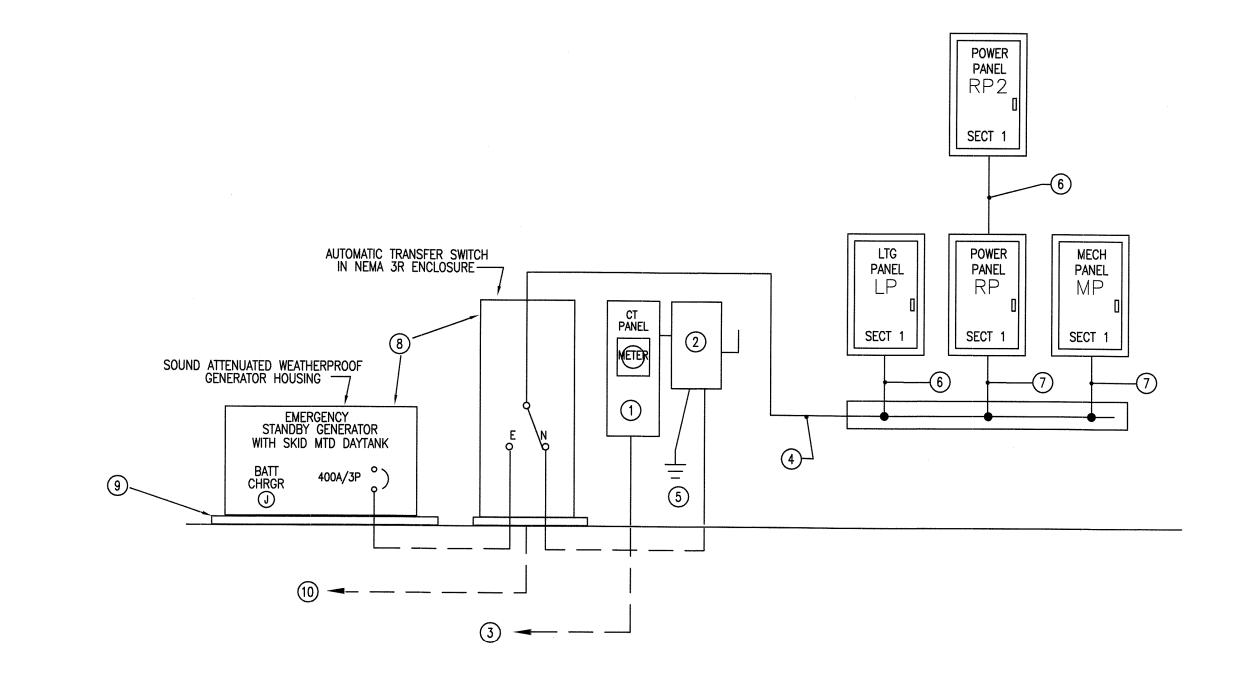
ELECTRICAL DETAILS

SHEET:

E4.1

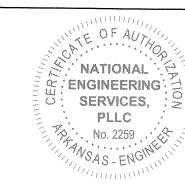


2 SERVICE ENTRANCE GROUNDING DETAIL
NOT TO SCALE



TELECTRICAL RISER DIAGRAM NOT TO SCALE

- 1 CT'S AND CABINET PER UTILITY STANDARDS. COORDINATE WITH PROVIDER.
- 400A, 208V, 3 PHASE, LOCKABLE SERVICE ENTRANCE RATED FUSED DISCONNECT SWITCH FUSED AT 600A. PROVIDE NEMA 3R ENCLOSURE.
- 3 2 SETS: (4) #3/0 KCMIL, 1#1/0G IN 4" CONDUIT EACH. TRENCH PER UTILITY STANDARDS. INCLUDE (1) 4" SPARE CONDUIT. VERIFY ALL REQUIRMENTS. ROUTE TO UTILITY CO. SERVICE POINT.
- 4 2 SETS: (4) #3/0 KCMIL, 1#3G IN 2" CONDUIT (EACH).
- 5) #1/0 SERVICE ENTRANCE GROUND REFER TO SERVICE ENTRANCE GROUNDING DETAILS THIS SHEET.
- 6 (4) #1, 1#6G. IN 1-1/2" CONDUIT
- 7 (4) #3/0, 1#6G. IN 2" CONDUIT
- 8 KOHLER #125REZGC 125KW-120/208V, 3 PHASE NATURAL GAS/PROPANE GENSET WITH DECISION-MAKER 3000 CONTROLLER, CUSTOM EXHAUST, SILENCER, INLINE CB, FLEXIBLE EXHAUST, SOUND ATTENUATED WEATHERPROOF ENCLOSURE, 400A, 4-POLE AUTO TRANSFER SWITCH, BATTERY, CHARGER. TRANSFER SWITCH TO BE MOUNTED ADJACENT TO GENSET HOUSEKEEPING PAD IN NEMA 3R ENCLOSURE. PROVIDE GENERATOR ANNUNCIATOR PANEL WHERE REQUESTED BY OWNER.
- 9 4" TALL CONCRETE HOUSEKEEPING PAD SIZED TO ACCOMODATE GENSET.
- 1"C WITH CONTROL WIRING TO GENERATOR ANNUNCIATOR PANEL. VERIFY LOCATION WITH OWNER.



CONWAY OFFICE
813 OAK STREET, SUITE 10A #337
CONWAY, AR 72032
LITTLE ROCK OFFICE
3801 WOODLAND HEIGHTS ROAD, SUITE 125-D
LITTLE ROCK, AR 72212
PH: 501.235.3270
FAX: 501.235.3272
WWW.NES-ENG.COM

A PROJECT FOR:

Searcy Fire Station #2

Golf Course Drive, Searcy, Arkansas

Hoffmann
Architectural In



C COPYRIGHT 2016

HOFFMANN ARCHITECTURAL INC.

THIS DOCUMENT IS ISSUED AS AN INSTRUMENT OF SERVICE AND IS FOR THE PRODUCTION OF A SINGLE FACILITY AS NOTED IN THE SHEET TITLE. OWNERSHIP OF THIS DOCUMENT IS RETAINED BY HOFFMANN ARCHITECTURAL INC.. UNAUTHORIZED REPRODUCTION IS PROTECTED BY THE COPYRIGHT LAWS OF THE UNITED STATES AND IS HEREWITH PROHIBITED.

DATE:

10/28/16

REVISIONS:

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON SITE PRIOR TO ORDERING MATERIALS OR CONSTRUCTION.

DRAWN BY:

SRC

ELECTRICAL RISER AND PANEL SCHEDULES

SHEET:

E5.1

77						/208 V0			WIRE	<u>60</u> HZ		MAINS: 200A MC	
	RP" Sect	1 of 1				<u>face</u> brac Seperate) NEMA	3R EN	CLOSURE	FEED FROM: WIREV	<u>VAY</u>
сскт#	SERVES	CONTROL FUNCTION (WHERE REQUIRED)		AD (VA)	CIRCUIT BRKR. TRIP/ POLES	CIRCUIT BRKR. TRIP/ POLES	LOA	LOAD (VA)		CONTROL FUNCTION (WHERE REQUIRED)	SERVES	сскт#	
1	RECEPTACLES	NEQUINED)	1080	///////	////////	L		2400		7777777	- LEGUINED)	EXTRACTOR	2
3	SPARE		1000			20/1 20/1	35/3	Z400	2400			3#10, #10G., 3/4°C	4
5	RECEPTACLES	_			1080	20/1			2400	2400		—— —— —— —— —— —— —— —— —— —— —— —— ——	6
7	RECEPTACLES		1080		7//////	20/1	20/3	1200		<u> </u>	_	DRYER	8
9	RECEPTACLES	_		1080		20/1	20/0	////////	1200		_	3#12, #12G., 3/4°C	10
11	RECEPTACLES	_			1080	20/1				1200	_		12
13	RECEPTACLES		1080			20/1	20/1	1200			_	WASHER	14
15	RECEPTACLES			1080		20/1	20/1		1080		_	RECEPTACLES	16
17	RECEPTACLES				1080	20/1	20/1			1080	_	RECEPTACLES	18
19	RECEPTACLES	_	1080			20/1	20/1	1080			_	RECEPTACLES	20
21	RECEPTACLES			1080		20/1	20/1		1080		-	RECEPTACLES	22
23	RECEPTACLES	-			1080	20/1	20/1			1080	-	RECEPTACLES	24
25	RECEPTACLES	_	1080			20/1	20/1	1080			-	RECEPTACLES	26
27	RECEPTACLES	_		1080		20/1	20/1		1080		-	RECEPTACLES	28
29	RECEPTACLES	-			1080	20/1	20/1			1080	-	RECEPTACLES	30
31	RECEPTACLES	_	1080			20/1	20/1	1080				RECEPTACLES	32
33	RECEPTACLES	_		1080		20/1	20/1		1080		_	RECEPTACLES	34
35	RECEPTACLES	_			1080	20/1	20/1			1200		DISHWASHER	36
37	RECEPTACLES		1080			20/1	100/3	10,000			-	PANEL RP2	38
39	RECEPTACLES	_		1080		20/1			10,000		_	Manife district	40
41	RECEPTACLES	_			1080	20/1	****			10,000	-		42

	77	RP2" Sect 1	of 1		MOUNT	ED: <u>FLU</u> :	/208 VO SH BRAC SEPERATE	CEC	D: <u>10</u> K	AIC	WIRE	<u>60</u> HZ		MAINS: 100A MC	<u>*B</u>	
	сскт#	SERVES	CONTROL FUNCTION (WHERE		AD (VA)		CIRCUIT BRKR. TRIP/		CIRCUIT BRKR. TRIP/		AD (VA)		CONTROL FUNCTION (WHERE	SERVES	CCKT#	1 11
L			REQUIRED)		PH B	PH C	POLES		POLES		PH B	PH C	RÉQUIRED)			
*	1	RECEPTACLES	-	1080			20/1		20/1	1080			_	CEILING FANS/LTG	2	
*	3	RECEPTACLES	***		1080		20/1		20/1		1080			CEILING FANS/LTG	4	_
*	5	RECEPTACLES				1080	20/1		20/1			1080		CEILING FANS/LTG	6	
*	<u>/</u>	RECEPTACLES	_	1080	4000		20/1		20/1	- 			_	SPARE	8	_
*	9	RECEPTACLES	-		1080		20/1		20/1		- ~~~~		_	SPARE	10	
*	11	RECEPTACLES				1080	20/1		20/1			 	_	SPARE	12	
L		RECEPTACLES		1080			20/1		20/1				_	SPARE	14	1
	15				-		20/1		20/1		— ***********			SPARE	16	
	17	SPARE				_	20/1		20/1			-		SPARE	18	_1
L	19	SPARE		-			20/1		20/1	-			_	SPARE	20	
L		SPARE	-		_		20/1		20/1		<u>-</u>		-	SPARE	22	
L	23	SPARE	_				20/1		20/1			_	_	SPARE	24	
L	25	SPARE	_	_			20/1		20/1	_			_	SPARE	26	
L	27	OH DOOR			1200	1////////	20/1		20/1				-	SPARE	28	
	29	OH DOOR	-			1200	20/1		20/1				_	SPARE	30	
	31	OH DOOR		1200			20/1		20/1	_			_	SPARE	32	
Γ	33	OH DOOR	_		1200		20/1		20/1					SPARE	34	
	35	OH DOOR	_			1200	20/1		20/1				_	SPARE	36	
	37	OH DOOR	_	1200			20/1		20/1	_				SPARE	38	
ſ	39	OH DOOR	_		1200		20/1		20/1		-		_	SPARE	40	
Ī	41	OH DOOR				1200	20/1		20/1			_		SPARE	42	.]

^{** -} REPRESENTS AFCI TYPE CIRCUIT BREAKERS.

77	LP" Sect 1	of 1				<mark>/208</mark> VO FACE BRA			-	WIRE	<u>60</u> HZ			MAINS: 1 FEED FROM:	25A MCE WIREW	
,		01 1								D NEMA	3R EN	CLOSURE				
CCKT#	SERVES	CONTROL FUNCTION (WHERE REQUIRED)		` '			RCUIT RKR. RIP/ OLES			AD (VA)		CONTROL FUNCTION (WHERE REQUIRED)	SEIVES		VES	CCKT#
1	LIGHTING - WALLPACKS	*	900			20/1		20/1				_	SPARE			2
3	LIGHTING - EXT COLUMNS	*		200		20/1		20/1		_		_	SPARE			4
5	LIGHTING - OFFICES	_			1200	20/1		20/1			_	-	SPARE			6
7	LIGHTING - CORRIDOR/LR	_	400			20/1		20/1	_			-	SPARE			8
9	CEILING FANS	-		1200		20/1		20/1		_		_	SPARE			10
11	CEILING FANS	_			1200	20/1		20/1			-	_	SPARE			12
13	CEILING FANS		1200			20/1		20/1	_			-	SPARE			14
15	SPARE	_		_		20/1		20/1		_		-	SPARE			16
17	SPARE	_			_	20/1		20/1			_	_	SPARE			18
19	RELAY PANEL	_	400			20/1		20/1	_			-	SPARE			20
21	SPARE	_		-		20/1		20/1		_		_	SPARE			22
23	LIGHTING — BAYS	-			1200	20/1		20/1			_	_	SPARE			24
25	LIGHTING - BAYS	****	1200			20/1		20/1	_			_	SPARE			26
27	LIGHTING - BAYS			1200		20/1		20/1				_	SPARE			28
29	SPARE	_			-	20/1		20/1			-	_	SPARE			30
31	SPARE	_	_			20/1		20/1	_			_	SPARE			32
33	SPARE	_				20/1		20/1		_		-	SPARE			34
35	SPARE	_			_	20/1		20/1				_	SPARE			36
37	SPARE	_	_			20/1		20/1	_			_	SPARE			38
39	SPARE	-		_		20/1		20/1				-	SPARE			40
41	SPARE	_				20/1		20/1			_		SPARE			42

77	MP" Sect 1	of 1		MOUNTE	ED: <u>Sur</u>	FACE BR	ACE	S <u>3</u> PH/ D: <u>10</u> K GROUND E	AIC BUS AND			CLOSURE	MAINS: 200A MC FEED FROM: WIREW	
CCKT#	SERVES	CONTROL FUNCTION LOAD (WHERE REQUIRED) PH A PH		AD (VA)	PH C	CIRCUIT BRKR. TRIP/ POLES		CIRCUIT BRKR. TRIP/ POLES		D (VA)		CONTROL FUNCTION (WHERE REQUIRED)	SERVES	CCKT#
1	CU-1	_	1500			30/3		20/1	1200			_	F-1	2
3	3#10, #12G., 3/4°C	<u> </u>		1500				20/1		1200		_	F-2	4
5	****	-			1500			20/1			1200	_	F-3	6
7	CU-2	_	2300			40/3		20/1	400			_	BATTERY CHARGER	8
9	3#8, #10G., 3/4"C	_		2300				20/1		400		_	FIRE ALARM PANEL	10
11		_			2300			20/1			_		SPARE	12
13	CU-3	_	1200			20/3		20/1	1200			_	UH-1	14
15	3#12, #12G., 3/4°C	-		1200				20/1		1200		_	UH-2	16
17					1200			20/1			1200		DSHP/DSFC-1	18
19	WH-1/P-1	_	1200			20/1		20/3	1500			_	EH-11	20
21	AIR COMPRESSOR			1500		20/2				1500		-	3#12, #12G., 3/4°C	22
23	2#12, #12G., 3/4°C	_			1500						1500	-		24
25	AIR COMPRESSOR	_	2000			30/2		20/1	1200			-	HVLS1	26
27	2#10, #12G., 3/4°C	-		2000				20/1		1200		_	HVLS-2	28
29	EXTERIOR RECEPTACLES	-			1080	20/1		20/1			_		SPARE	30
31	EXTERIOR RECEPTACLES	-	1080			20/1		20/1				_	SPARE	32
33	EXTERIOR RECEPTACLES	_		1080		20/1		20/1		_		_	SPARE	34
35	SPARE	-			_	20/1		20/1			_		SPARE	36
37	SPARE	_	-			30/3		20/1				-	SPARE	38
39		_		_				20/1				-	SPARE	40
41		_			_			20/1					SPARE	42

NATIONAL ENGINEERING: ៉ SERVICES, PLLC No. 2259



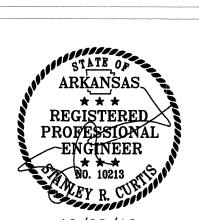
Searcy Fire

A PROJECT FOR:

Golf Course Drive,

Searcy, Arkansas

Hoffmann



C COPYRIGHT 2016 HOFFMANN ARCHITECTURAL INC. THIS DOCUMENT IS ISSUED AS AN INSTRUMENT OF SERVICE AND IS FOR THE PRODUCTION OF A SINGLE FACILITY AS NOTED IN THE SHEET TITLE. OWNERSHIP OF THIS DOCUMENT IS RETAINED BY HOFFMANN ARCHITECTURAL INC.. UNAUTHORIZED REPRODUCTION IS PROTECTED BY THE COPYRIGHT LAWS OF THE UNITED STATES AND IS HEREWITH PROHIBITED.

DATE: 10/28/16

REVISIONS:

CONTRACTOR MUST CHECK
AND VERIFY ALL DIMENSIONS
AND CONDITIONS ON SITE
PRIOR TO ORDERING
MATERIALS OR CONSTRUCTION.

DRAWN BY:

SRC

ELECTRICAL PANEL SCHEDULES

SHEET:

E5.2