

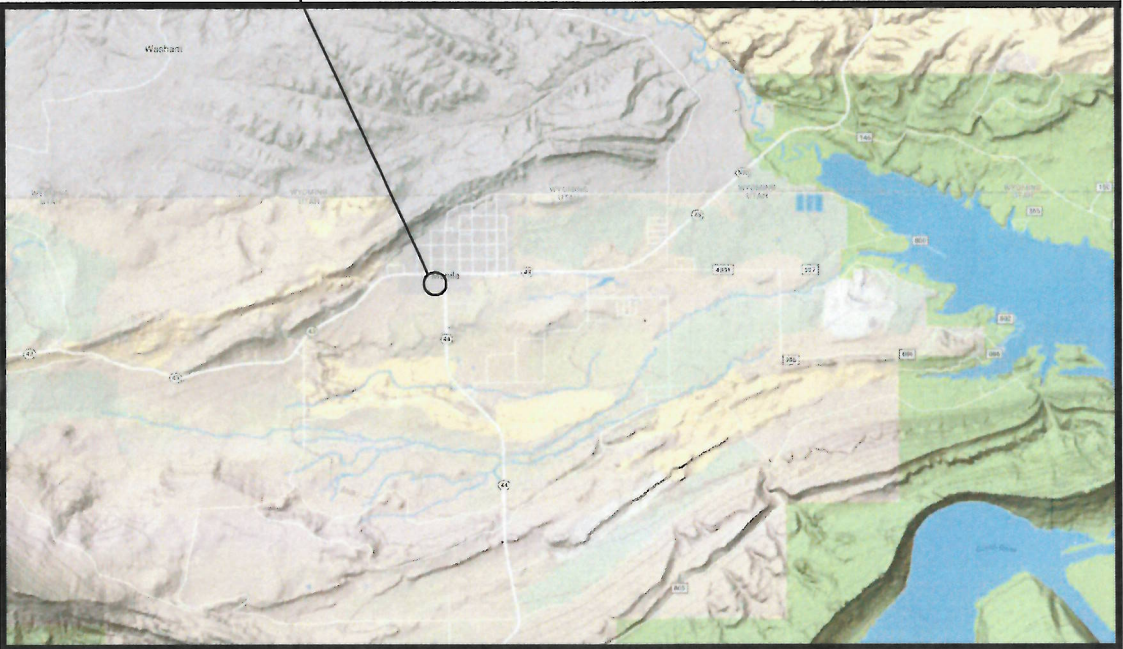


United States Department of Agriculture
Forest Service

**R04, INTERMOUNTAIN REGION
ASHLEY NATIONAL FOREST
DAGGETT COUNTY, UTAH**

**FLAMING GORGE RANGER
DISTRICT ADDITION**

PROJECT LOCATION

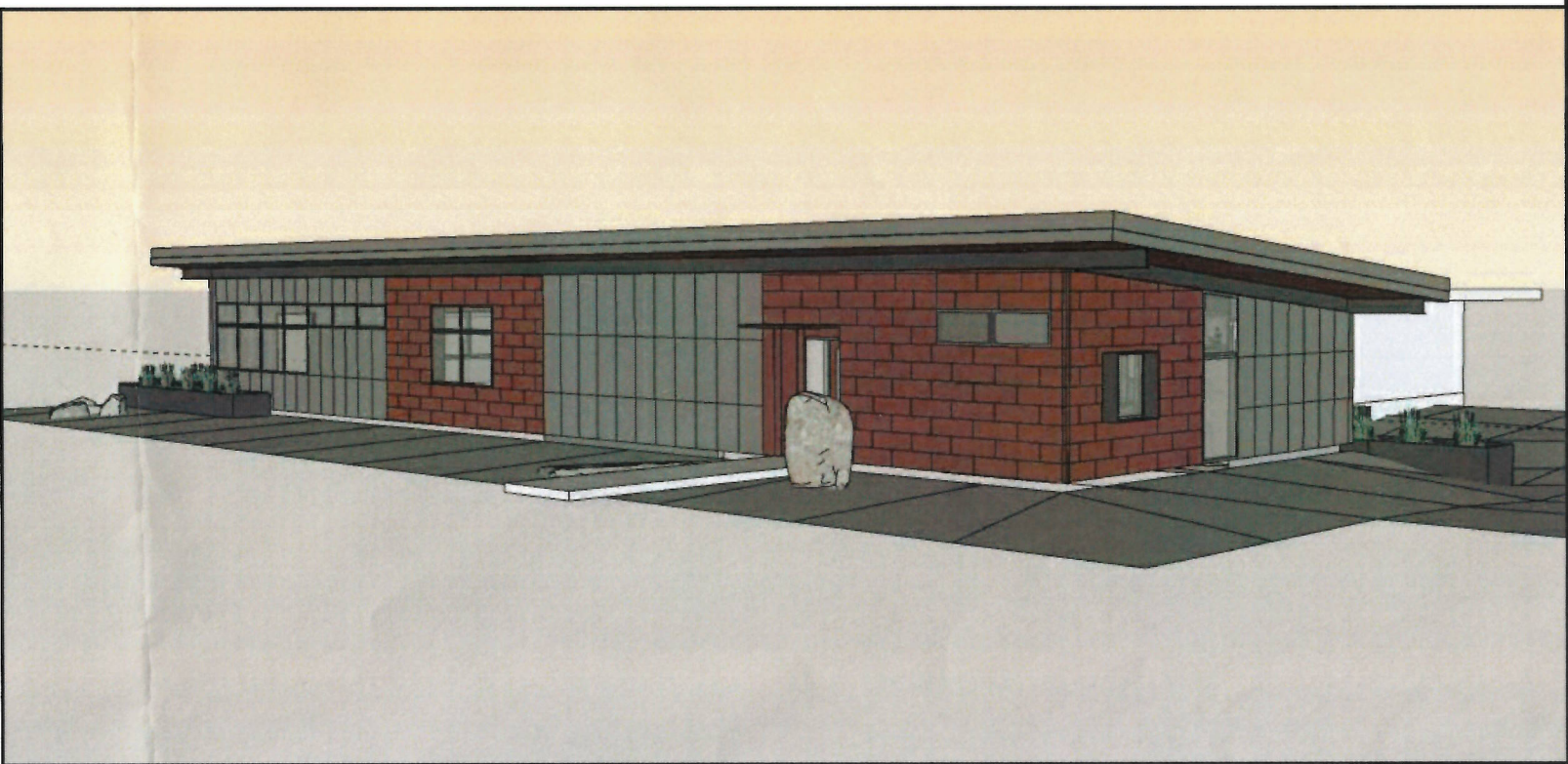


FLAMING GORGE RANGER
DISTRICT ADDITION SITE
25 WEST HWY 43

VICINITY MAP

PROJECT LOCATION:
The Project Site is located on USDA Forest Service property at the address of
25 West Hwy 43, Manila, UT 84046

TRAVEL DIRECTIONS FROM VERNAL:
Head North on S Vernal Ave toward Main St. (3.4 mi)
Continue onto US-191 N (31.4 mi)
Continue straight onto UT-44 N (27.9 mi)



PROJECT DESCRIPTION

- a. This project consists of constructing an office addition of approximately 3225 square feet to the Flaming Gorge Ranger District Office building. The existing facility is located in Manila, Daggett County, Utah on property owned by the Ashley National Forest. The project includes some site demolition and disposal, minor building demolition, preparation for new construction and the construction of an addition on the west end of the existing District Office. The work includes the construction of a new addition that will be connected by a breezeway and planter. The additional office space will include a new conference room with break area, open office areas, single offices, hallways, bathrooms, mechanical room, and telecom space. The project includes the installation of HVAC systems, plumbing, and the construction of a new concrete entries. The project will include new landscaping, irrigation, and exterior site elements as shown in the drawings and specifications. The project shall meet all ABA accessibility guidelines and standards.

RECOMMENDED BY:

FOREST ENGINEER

DISTRICT RANGER

FOREST SUPERVISOR

RO FACILITIES PROGRAM MANAGER

APPROVED:

DIRECTOR OF ENGINEERING

11/19/18

DATE

11/29/18

DATE

11-29-18

DATE

12/3/18

DATE

1/29/18

DATE

11/16/18 16:20 SHILLWORTHEN X:ASHLEY\FLAMINGGORGERANGERDISTRICT ADDITION.2017DWG\00_G1 COVER.G2 SHEETINDEX.FLAMINGGORGE.DWG;

SHT.	DWG.	SHEET TITLE
GENERAL		
1	G1	COVER SHEET, VICINITY MAP, PROJECT DESCRIPTION
2	G2	DRAWING SHEET INDEX
3	G3	SCHEDULE OF ITEMS
SITE LAYOUT		
4	C1	GENERAL SITE NOTES AND LEGEND
5	C2	EXISTING SITE AND DEMOLITION PLAN
6	C3	SITE PLAN
7	C4	SITE UTILITY PLAN
8	C5	SITE GRADING AND DRAINAGE PLAN
9	C6	FINE SITE LAYOUT AND GRADING PLAN
SITE DETAILS		
10	D1	ACCESSIBILITY DETAILS AND PARKING AREA SECTION
11	D2	CURB, GUTTER AND SIDEWALK DETAILS
12	D3	NDS INLET BASIN AND DETENTION BASIN DETAILS
13	D4	MECHANICAL GATE AND FENCE DETAILS
14	D5	TRENCH SEPARATION DETAILS
15	D6	SANITARY SEWER CLEANOUT DETAILS
16	D7	DETENTION BASIN OUTLET DETAILS
LANDSCAPE		
17	L01	LANDSCAPE PLAN
18	LD01	PLANTING AND SITE FURNISHING DETAILS
19	LD02	BOULDERS, EDGING AND DECORATIVE GRAVEL DETAILS
20	LD03	WEATHERED STEEL PLANTER DETAILS
21	IR01	IRRIGATION PLAN
22	IRD01	IRRIGATION DETAILS
23	IRD02	IRRIGATION DETAILS CONT'D.
BUILDING-ARCHITECTURAL		
24	GA1.01	ACCESSIBILITY STANDARDS
25	GA1.02	ACCESSIBILITY STANDARDS
26	G101	CODE ANALYSIS
27	A100	FOUNDATION PLAN
28	A101	ARCHITECTURAL FLOOR PLAN
29	A102	DIMENSIONAL FRAMING FLOOR PLAN
30	A103	FINISH FLOOR PLAN
31	A104	REFLECTED CEILING PLAN
32	A105	ROOF PLAN
33	A201	WEST AND EAST BUILDING ELEVATIONS
34	A202	SOUTH AND NORTH BUILDING ELEVATIONS
35	A301	BUILDING SECTION
36	A302	BUILDING SECTION
37	A303	BUILDING SECTION
38	A304	BUILDING SECTION
39	A305	WALL SECTIONS
40	A306	WALL SECTIONS
41	A307	WALL SECTIONS
42	A401	ENLARGED FLOOR PLANS

INDEX OF SHEETS

43	A402	INTERIOR ELEVATIONS WOMENS
44	A403	INTERIOR ELEVATIONS MENS
45	A404	INTERIOR ELEVATIONS
46	A501	ARCHITECTURAL DETAILS
47	A502	ARCHITECTURAL DETAILS
48	A504	WINDOW DETAILS
49	A505	WINDOW DETAILS/DOOR DETAILS
50	A506	ENTRY DOOR DETAILS
51	A507	ROOF DETAILS
52	A508	ROOF DETAILS
53	A509	ROOF DETAILS
54	A510	ROOF DETAILS
55	A511	DETAILS
56	A512	DETAILS
57	A513	TRANSITION DETAILS
58	A601	WALL TYPES
59	A602	WALL TYPES
60	A701	DOOR SCHEDULE
61	A702	HARDWARE SCHEDULE
62	A703	DOOR AND FRAME TYPE ELEVATIONS
63	A801	WINDOW ELEVATIONS
64	A802	WINDOW ELEVATIONS
65	A901	FINISH LEGEND
66	A902	FINISH SCHEDULE
67	A903	ACCESSORY AND SIGNAGE SCHEDULE
BUILDING-STRUCTURAL		
68	S001	STRUCTURAL NOTES
69	S002	STRUCTURAL NOTES
70	S003	STRUCTURAL NOTES
71	S004	STRUCTURAL NOTES
72	S005	STRUCTURAL NOTES
73	S006	SCHEDULES
74	S007	SCHEDULES
75	S008	SCHEDULES
76	S009	SCHEDULES
77	S010	SCHEDULES
78	S011	SCHEDULES
79	S012	SCHEDULES
80	S013	SCHEDULES
81	S014	SCHEDULES
82	S101	FOOTING AND FOUNDATION PLAN
83	S102	ROOF FRAMING PLAN
84	S201	DETAILS
85	S202	DETAILS
86	S203	DETAILS
87	S204	DETAILS
88	S205	DETAILS
89	S206	DETAILS
90	S207	DETAILS
91	S208	DETAILS
92	S209	DETAILS
93	S401	SCHEMATIC REFERENCE

BUILDING-PLUMBING & MECHANICAL		
94	P001	PLUMBING LEGEND
95	P002	PLUMBING NOTES AND SCHEDULES
96	P003	PLUMBING SCHEDULES
97	P004	PLUMBING SCHEDULES
98	P101	PLUMBING PLAN
99	P401	ENLARGED PLUMBING PLANS
100	P501	PLUMBING DETAILS
101	P502	PLUMBING DETAILS
102	P503	PLUMBING DETAILS
103	P504	PLUMBING DETAILS
104	P601	PLUMBING SCHEMATIC
105	M001	MECHANICAL LEGEND, NOTES, AND SEQUENCE OF OPERATIONS
106	M002	MECHANICAL SCHEDULES
107	M003	MECHANICAL SCHEDULES
108	M004	MECHANICAL SCHEDULES
109	M101	MECHANICAL PLAN AREA 'A'
110	M102	MECHANICAL PLAN AREA 'B'
111	M103	MECHANICAL PIPING AND COMBUSTION DUCT PLAN
112	M501	MECHANICAL DETAILS
113	M502	MECHANICAL DETAILS
114	M503	MECHANICAL DETAILS

BUILDING - ELECTRICAL		
115	E0.01	ELECTRICAL LEGEND AND SERVICE REPLACEMENT
116	E0.02	PANEL SCHEDULES AND LIGHT POLE DETAIL
117	E1.01	POWER AND RECEPTACLE FLOOR PLAN
118	E1.02	LIGHTING-FLOOR PLAN
119	E1.03	TELECOMMUNICATIONS FLOOR PLAN



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Fred

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION

ASHLEY
NATIONAL FOREST

FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

DRAWING SHEET INDEX

DATE 11/16/2018	ARCHIVE NO.
DESIGNER C. LEWIS	DRAWING SHEET NO. G2
DRAWN SMHW	
CHECKED D. JEPPISEN	
PROJECT NO. 644	SHEET 2 OF 119

11/20/18 15:40:58 SHILLWORTHEN X:ASHLEY\FLAMINGGORGERANGERDISTRICT ADDITION.2017DWG00_ G COVER G2 SHEETINDEX.FLAMINGGORGE.DWG;

USDA Forest Service						
SCHEDULE OF ITEMS						
FLAMING GORGE RANGER DISTRICT OFFICE ADDITION						
11/16/2018						
ITEM NUMBER	DESCRIPTION	METHOD OF MEAS	UNIT	QUANTITY	PRICE	TOTAL
Base Bid						
011900	Mobilization and Bonding	LSQ	LS	1		
000501.1.3	District Office Addition Broken into Schedule of Values					
	Divison 01: General Conditions	LSQ	LS	1		
	Division 02: Existing Conditions	LSQ	LS	1		
	Division 03: Concrete	LSQ	LS	1		
	Division 05: Metals	LSQ	LS	1		
	Division 06: Wood, Plastics and Composites	LSQ	LS	1		
	Division 07: Thermal and Moisture Protection	LSQ	LS	1		
	Division 08: Openings	LSQ	LS	1		
	Division 09: Finishes	LSQ	LS	1		
	Division 10: Specialties	LSQ	LS	1		
	Division 11 and 12: Equipment and Furnishings	LSQ	LS	1		
	Division 22: Plumbing	LSQ	LS	1		
	Division 23: Heating, Ventilation and Air Conditioning	LSQ	LS	1		
	Division 26, 27, 28: Electrical, Communications and Security	LSQ	LS	1		
	Division 31 and 32: Earthwork and Exterior Improvements	LSQ	LS	1		
000501-2	Steel planter boxes adjacent to bldg	LSQ	LS	1		
260500-1	Electrical Service and Feeder to Panel D	LSQ	LS	1		
260500-2	Electrical parking lot lighting and damaged com cable	LSQ	LS	1		
					Total Base -	
Bid Option-A						
129300-1	Site furnishings : picnic table	AQ	EA	2		
129300-2	Site furnishings : bike rack	AQ	EA	1		
328000	Landscape irrigation system	LSQ	LS	1		
329310	Exterior plants, planting media, installation of Government furnished boulders	LSQ	LS	1		
329400	Landscape stone, weed barrier, steel edging	LSQ	LS	1		
					Total Option -	
Bid Option-B						
321200	(Civil work) asphalt parking Lot	LSQ	LS	1		
033000	Concrete sidewalk, hardscape, curb, gutter	LSQ	LS	1		
					Total Option -	
		Total Bid				



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Freed

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION

ASHLEY
NATIONAL FOREST

FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

SCHEDULE OF ITEMS

DATE 11/16/2018	ARCHIVE NO.
DESIGNER C. LEWIS	DRAWING SHEET NO. G3
DRAWN SMHW	
CHECKED D. JEPPISEN	
PROJECT NO. 644	SHEET 3 OF 119

GENERAL NOTES:

1. AN EXTENSIVE EFFORT HAS BEEN MADE TO LOCATE ALL POSSIBLE EXISTING UTILITY LINES FROM RECORDS AND EVIDENCE IN THE FIELD, HOWEVER, THE COMPLETENESS OR ACCURACY OF THE LOCATIONS SHOWN CANNOT BE GUARANTEED. THE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING THE LOCATION OF ALL EXISTING UTILITIES. ANY LOCATION STAKED OR SHOWN IS APPROXIMATE. CALL 811 TO HAVE UTILITIES MARKED BEFORE BEGINNING CONSTRUCTION. IF CONFLICTS ARE FOUND, NOTIFY THE CONTRACTING OFFICER.
2. INFRASTRUCTURE SUCH AS: ELECTRICAL, SEWER, WATER AND PHONE LINES EXIST. THE CONTRACTOR SHALL COORDINATE WITH THE CONTRACTING OFFICER'S REPRESENTATIVE TO LOCATE, PRESERVE, AND INTERRUPT ANY OF THE CURRENT SERVICES.
3. SEE "E" SHEETS FOR ELECTRICAL DESIGN.
4. ALL OBLITERATED ROAD BASE ROAD MATERIALS SHALL BE REUSED AS ROAD BASE MATERIAL OR AS OTHER FILL MATERIAL IN APPROPRIATE AREAS. THE CONTRACTOR SHALL REMOVE AND STOCKPILE ROAD BASE FOR REUSE, AND USE AS CRUSHED AGGREGATE BASE COURSE IN THE CONSTRUCTION OF THE NEW PARKING AREA.
5. ALL CLEARING AND GRUBBING SHALL CONFORM TO SECTION 311000 IN THE SPECIFICATIONS. ALL NON-SALVAGEABLE MATERIAL SHALL BE DISPOSED OF AT AN APPROVED LANDFILL.
6. CONTRACTOR SHALL MINIMIZE OUTAGES AND ACCESS DISTURBANCE TO THE EXISTING FACILITIES. ALL DISRUPTIONS TO THE EXISTING FACILITIES MUST BE COORDINATED THROUGH THE C.O.R.
7. CONTRACTOR SHALL COORDINATE WITH THE CITY AND UDOT AND OBTAIN NECESSARY PERMITS FOR WORK PERFORMED WITHIN HIGHWAY 43 AND HIGHWAY 44 STREET RIGHT OF WAY.
8. STAKING WILL BE COMPLETED BY THE CONTRACTOR AND APPROVED BY THE CONTRACTING OFFICER'S REPRESENTATIVE.
9. THE CONTRACTOR SHALL FINISH GRADE THE SITE TO DRAIN AS SHOWN ON THE DRAWINGS. THE PROPOSED CONTOURS ARE GENERALIZATIONS AND MAY BE ADJUSTED BASED ON ACTUAL FILL MATERIAL AVAILABLE AND AS APPROVED BY THE CONTRACTING OFFICER'S REPRESENTATIVE.
10. CONCRETE SIDEWALKS AND SLABS NEXT TO BUILDINGS SHALL BE SLOPED TO DRAIN AWAY FROM THE BUILDING AT A MINIMUM OF 2 PERCENT.
11. ALL CUT AND FILL SLOPES SHALL BE SLOPED AT 4:1 UNLESS OTHERWISE INDICATED ON THE PLANS.
12. ALL CONSTRUCTION PERFORMED WITHIN THE UDOT's RIGHT-OF-WAY SHALL FOLLOW UDOT STANDARDS DRAWINGS AND SPECIFICATIONS.
13. ALL WATERLINE SHALL BE SLOPED A MINIMUM 2% TO DRAIN.
14. BURY WATERLINE A MINIMUM OF 48 INCHES TO TOP OF PIPE. ADDITIONAL DEPTH MAY BE REQUIRED TO MAINTAIN A MINIMUM SLOPE OF 2%.
15. THE MINIMUM ALLOWABLE BENDING RADIUS FOR HDPE PIPE IS 30 TIMES THE NOMINAL PIPE DIAMETER.

NOM. PIPE DIA.	MIN. BENDING RADIUS
1"	2'-6"
2"	5'-0"
3"	7'-6"
4"	10'-0"
6"	15'-0"

16. INSTALL THE WATER SYSTEM ACCORDING TO APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS FOR PUBLIC DRINKING WATER SYSTEMS.
17. CLEARING LIMITS SHALL BE 5 FEET ON BOTH SIDES OF THE UTILITY TRENCH. THE CONTRACTOR SHALL USE CAUTION AND AVOID DAMAGE TO TREES AND VEGETATION. THE CONTRACTOR SHALL CONFINE ALL OPERATIONS AND ACTIVITIES TO WITHIN THE CLEARING LIMITS.
18. CONNECTIONS BETWEEN NEW AND EXISTING WATERLINES SHALL BE INSTALLED IN MANNER RECOMMENDED BY THE PIPE MANUFACTURER AND APPROVED BY THE CONTRACTING OFFICER. COMPRESSION-TYPE FITTINGS ARE NOT ALLOWED.
19. WHERE UTILITY LINES CROSS ASPHALT ROADS, SAW CUT AND REPAIR WITH COLD ASPHALT MIX. SEE TRENCHING DETAILS.
20. INSTALL THRUST BLOCKS FOR ALL 4” AND LARGER WATERLINES AT CHANGES IN DIRECTION GREATER THAN 45 DEGREES AND AT ALL TEES.
21. SEE SHEET C4 FOR WATER AND WASTEWATER.
22. WHERE NEW WATERLINES INTERSECT SEWERLINES, THE NEW WATERLINES SHALL BE INSTALLED ACCORDING TO APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, INCLUDING: UTAH DIVISION OF DRINKING WATER, RULES GOVERNING PUBLIC DRINKING WATER SYSTEMS, R309–550, SEE PIPE SEPARATION DETAILS.

LEGEND:

- W

—————

NEW WATERLINE
- — —

W

— — —

EXISTING WATERLINE
- S

—————

NEW SEWERLINE
- — —

S

— — —

EXISTING SEWERLINE
- E

—————

NEW ELECTRICAL LINE
- — —

E

— — —

EXISTING POWER
- T

—————

TELECOMMUNICATIONS LINE
- — —

T

— — —

EXISTING TELECOMMUNICATIONS LINE
- X

—————

NEW FENCE
- — —

X

— — —

EXISTING FENCE
- · · >

— · · >

— · · >

SWALE DIRECTION
- SD

—————

NEW STORM DRAIN
- G

—————


NEW GASLINE

- V


CURB VALVE AND BOX - SIZE VARIES
- S


EXISTING SANITARY SEWER MANHOLE
- S


NEW SANITARY SEWER MANHOLE
- C


CLEANOUT
- 


POWER POLE
- 9310


MAJOR CONTOUR AND ELEVATION (FEET)
- 

NEW ASPHALT
- 

LANDSCAPE AREA
- 

ACCESSIBLE PARKING STALL
- 

SIGN
- 

TELEPHONE PEDESTAL
- 

EXISTING SURVEY CONTROL POINT

ABBREVIATION LEGEND:

- CP SURVEY CONTROL POINT
- TBC TOP BACK OF CURB
- BW..... BACK OF WALK
- FG FINISHED GRADE
- BLDG.... BUILDING
- FF FINISHED FLOOR
- FLFLOWLINE
- PC POINT OF CURVE
- PT..... POINT OF TANGENT
- POC..... POINT ON CURVE
- GRD.... GROUND
- EO..... EDGE OF ROAD
- LPP..... LIGHT UTILITY POLE
- TPP..... TELEPHONE UTILITY POLE
- S SLOPE
- GB GRADE BREAK
- SD STORM DRAIN
- SS SANITARY SEWER
- W WATER
- MH..... MAN HOLE
- (##) EXISTING ELEVATION
- INV INVERT
- CB CATCH BASIN
- FNC..... FENCE
- LPG.... LIQUEFIED PETROLEUM GAS
- HDPE ...HIGH DENSITY POLYETHYLENE
- MIN MINIMUM
- EP EDGE OF PAVEMENT
- CONC .. CONCRETE
- CL CENTER LINE
- SW SIDEWALK

USDA



United States Department of Agriculture
Forest Service

(R04)

INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

4

11/29/18

3

2

1

NO.

REVISION / ISSUE

DATE

PROJECT NAME

FLAMING GORGE
RANGER
DISTRICT
ADDITION

ASHLEY NATIONAL
FOREST

FLAMING GORGE DISTRICT

DRAWING TITLE

GENERAL SITE NOTES
AND LEGEND

DATE
11/29/2018

ARCHIVE NO.

DESIGNER
R.ANDERSON

DRAWN
R.ANDERSON

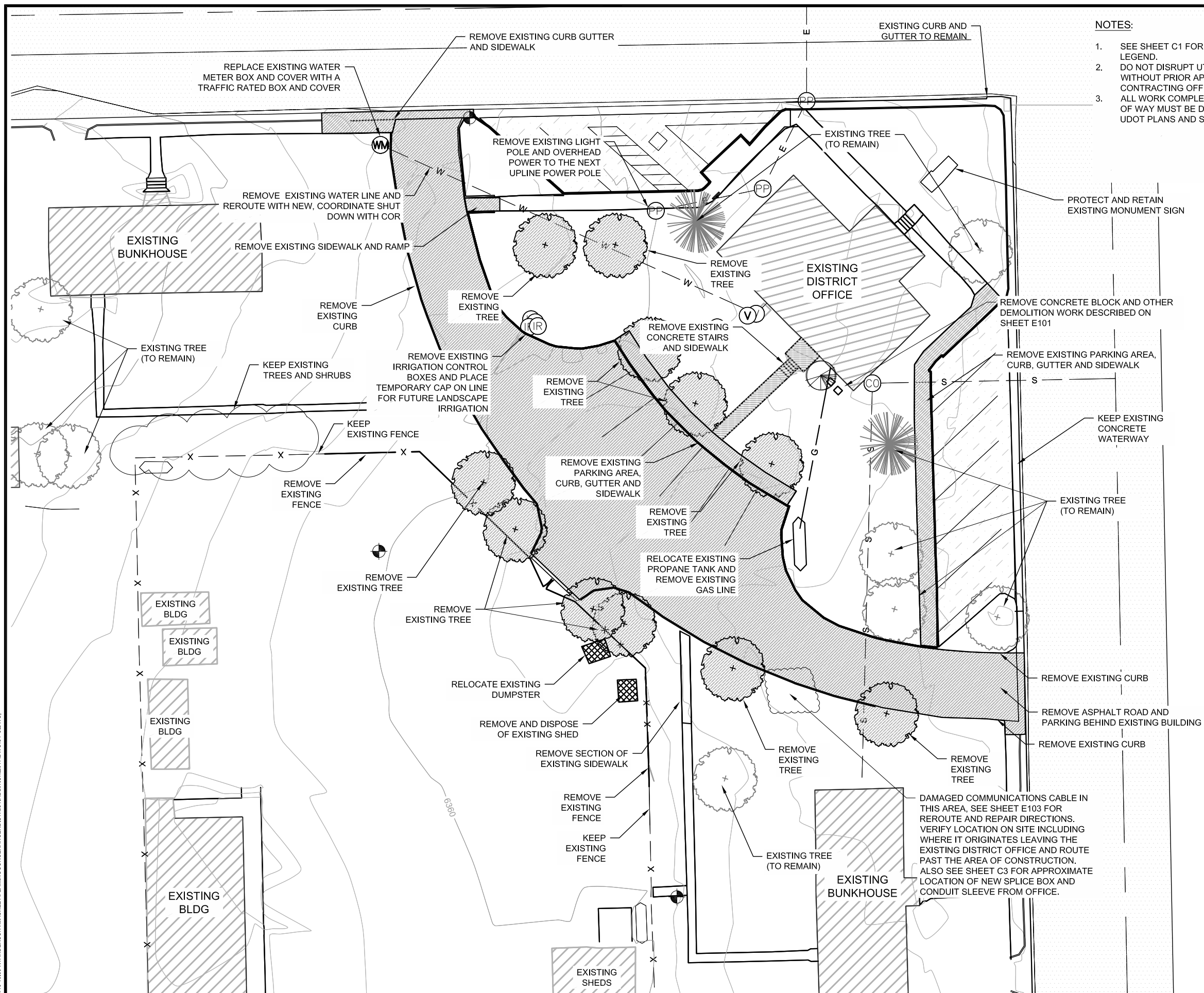
CHECKED
D.JEPPSEN

DRAWING SHEET NO.

C1

PROJECT NO.

SHEET 4 OF 119



- NOTES:

- PROTECT AND RETAIN
EXISTING MONUMENT SIGN

REMOVE EXISTING PARKING AREA,
CURB, GUTTER AND SIDEWALK

- KEEP EXISTING CONCRETE WATERWAY

— EXISTING TREE
(TO REMAIN)

— REMOVE EXISTING CURB

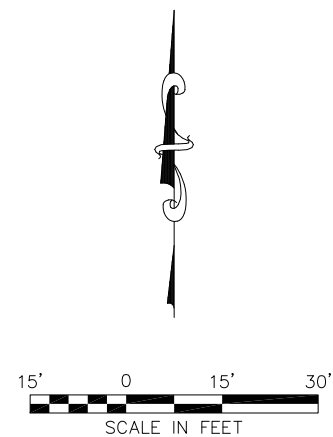
- REMOVE ASPHALT ROAD AND PARKING BEHIND EXISTING BUILDING

- REMOVE EXISTING CURB

— DAMAGED COMMUNICATIONS CABLE IN THIS AREA, SEE SHEET E103 FOR REROUTE AND REPAIR DIRECTIONS. VERIFY LOCATION ON SITE INCLUDING WHERE IT ORIGINATES LEAVING THE EXISTING DISTRICT OFFICE AND ROUTE PAST THE AREA OF CONSTRUCTION. ALSO SEE SHEET C3 FOR APPROXIMATE LOCATION OF NEW SPLICE BOX AND CONDUIT SLEEVE FROM OFFICE.

EXISTING
BUNKHOUSE

EXISTING



(R04)

STAMPS, LOGOS, AND SEALS

s/s Regina Freed

PROJECT NAME

**FLAMING GORGE
RANGER
DISTRICT
ADDITION**

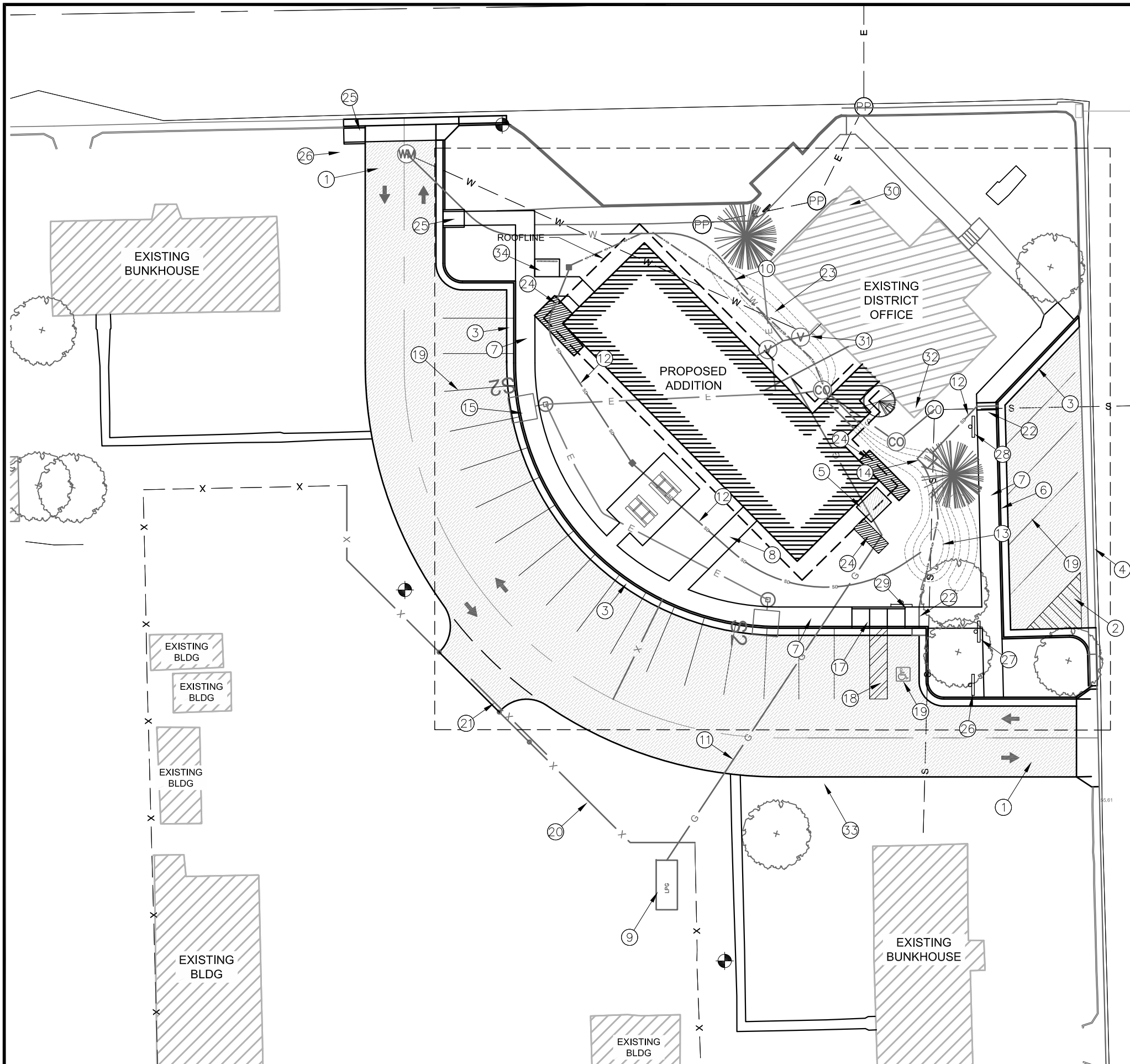
FLAMING GORGE DISTRICT

DRAWING TITLE

EXISTING SITE AND DEMOLITION PLAN

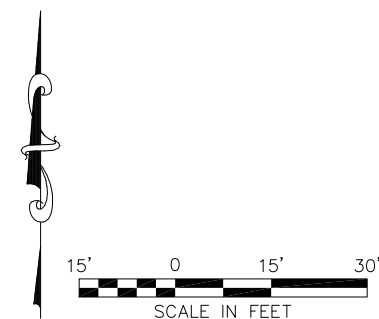
DATE 11/29/2018	ARCHIVE NO.	
DESIGNER R.ANDERSON		DRAWING SHEET NO. C2
DRAWN R.ANDERSON		
CHECKED D.JEPPSEN		
PROJECT NO.		SHEET 5 OF 119

12/18 07:43 RTANDERSON X:\ASHLEY\FLAMINGGORGERANGERDISTRICT.ADDITION.2017\DWG\C1-C.DWG:



CALLOUTS:

1. CONSTRUCT ASPHALT ROADWAY (SHEET D1)
2. CONSTRUCT ASPHALT PARKING AREA (SHEET D1)
3. CONSTRUCT "L" CURB & GUTTER (SHEET D2)
4. CONSTRUCT VALLEY GUTTER (SHEET D2)
5. CONSTRUCT 8' x 6' CONCRETE SLAB FOR HVAC
6. CONSTRUCT SHED CURB (SHEET D2)
7. CONSTRUCT ATTACHED SIDEWALK (SHEET D2)
8. CONSTRUCT SIDEWALK (SHEET D2)
9. CONSTRUCT PROPANE TANK CONCRETE SLAB 6'x10' (SHEET D2)
10. CONSTRUCT WATER LINE (SHEET D5)
11. INSTALL GAS LINE (SHEET D4)
12. CONSTRUCT SD LINE (SHEET D7)
13. CONSTRUCT DETENTION BASIN (SHEET D7)
14. CONSTRUCT STORM DRAIN OUTLET CONTROL (SHEET D8)
15. INSTALL SITE LIGHTING (SHEET "E" SHEETS)
16. CONSTRUCT LANDSCAPE BERM (SHEET "L" SHEETS)
17. CONSTRUCT ACCESSIBLE RAMP (SHEET D2)
18. CONSTRUCT ACCESSIBLE PARKING STALLS (SHEET D1)
19. PAINT PARKING STALL (SHEET D1)
20. INSTALL FENCE (SHEET D4)
21. INSTALL 24 FT GATE (SHEET D4)
22. CONSTRUCT SIDEWALK SCUPPER (SHEET D7)
23. CONSTRUCT LANDSCAPED SWALE
24. LANDSCAPE PLANTER SEE "L" SHEETS
25. RAMP SIDEWALK TO DRIVE APPROACH
26. INSTALL SIGN #2 (SHEET D1)
27. INSTALL SIGN #3 (SHEET D1)
28. INSTALL SIGN #4 (SHEET D1)
29. INSTALL SIGN #1 (SHEET D1)
30. COMMUNICATIONS ROOM, ORIGATION POINT FOR EXISTING DAMAGED COM CABLE TO BE REROUTED AND REPAIRED, SEE SHEETS C2 AND E1.02
31. POSSIBLE EXISTING ROUTE FOR DAMAGED COM CABLE TO BE REROUTED, SEE SHEETS C2 AND E1.02
32. POSSIBLE EXISTING ROUTE OR PROPOSED ROUTE FOR DAMAGED COM CABLE AND NEW SPLICE LOCATION, SEE SHEETS C2 AND E1.02
33. INSTALL SPLICE BOX FOR REPLACED COM CABLE IN NEW SLEEVE FROM EXISTING OFFICE, VERIFY LOCATION ON SITE, SEE SHEETS C2 AND E1.02
34. BIKE RACK ON 5'x7' CONCRETE SLAB (SHEET D2 AND LD01)



United States Department of Agriculture
Forest Service

(R04)
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Fred

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

**FLAMING GORGE
RANGER
DISTRICT
ADDITION**

**ASHLEY NATIONAL
FOREST**

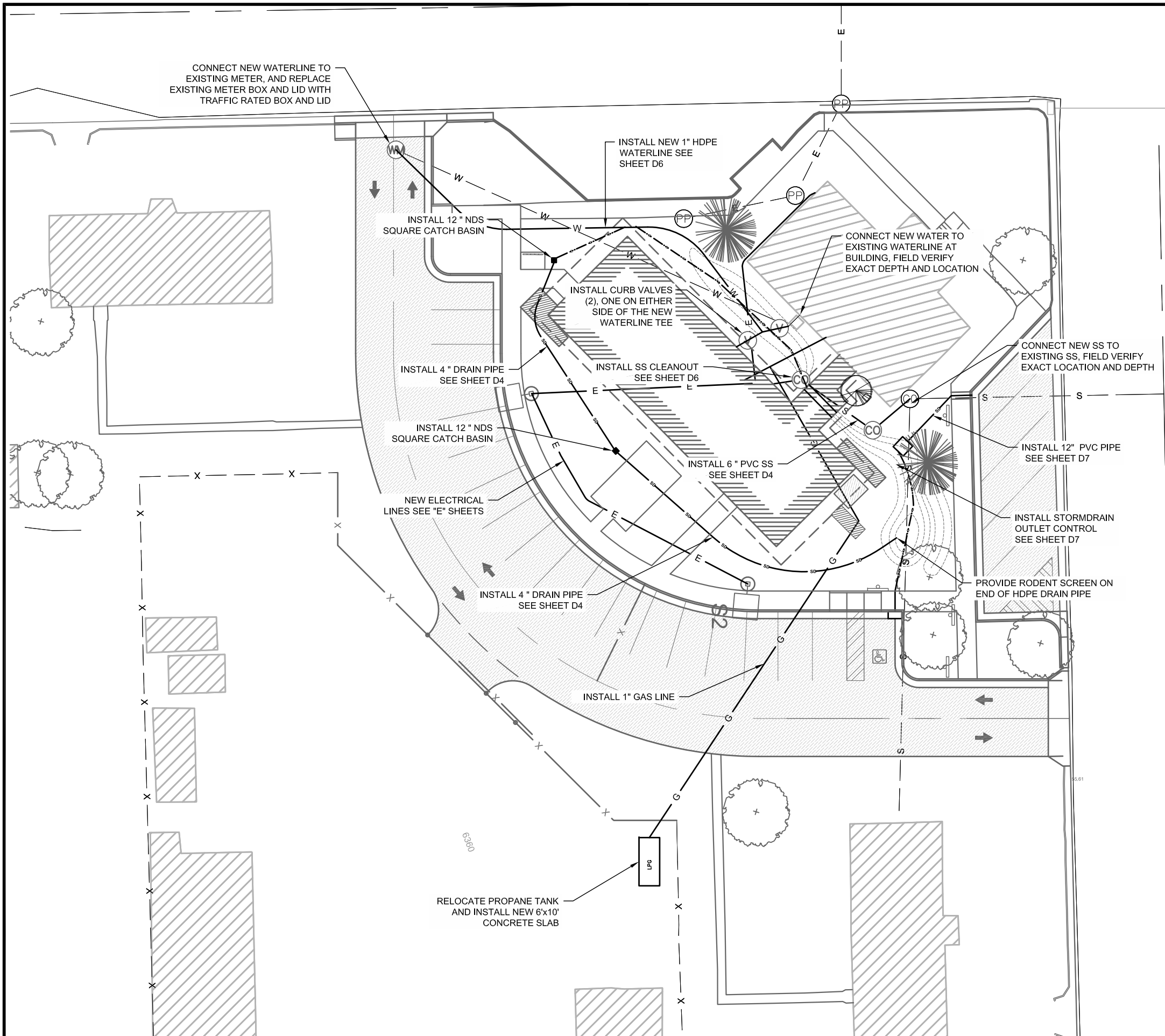
FLAMING GORGE DISTRICT

DRAWING TITLE

SITE PLAN

DATE 11/29/2018	ARCHIVE NO.
DESIGNER R.ANDERSON	DRAWING SHEET NO. C3
DRAWN R.ANDERSON	
CHECKED D.JEPPSEN	
PROJECT NO.	SHEET 6 OF 119

12/31/18 07:49 RTANDERSON X:\ASHLEY\FLAMINGGORGERANGERDISTRICT\ADDITION\2017\DWG\C1-C.DWG



NOTES:

1. SEE SHEET C1 FOR GENERAL NOTES AND LEGEND.
2. DO NOT DISRUPT UTILITY SERVICE TO BUILDINGS WITHOUT PRIOR APPROVAL FROM CONTRACTING OFFICER.
3. ALL NEW SS LINES SHALL BE 6" PVC WITH A MINIMUM SLOPE OF 1.0%.
4. NEW DRAINAGE PIPE SHALL BE 4" CORRUGATED NON-PERFORATED HDPE PIPE, WITH A MINIMUM SLOPE OF 1.0%
5. INSTALL SS CLEANOUT WITHIN 10 FT OF THE BUILDING AND AT ANY CHANGE IN DIRECTION.



United States Department of Agriculture
Forest Service

(R04)
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Fred

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

**FLAMING GORGE
RANGER
DISTRICT
ADDITION**

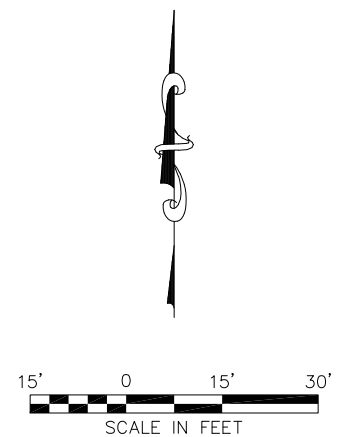
**ASHLEY NATIONAL
FOREST**

FLAMING GORGE DISTRICT

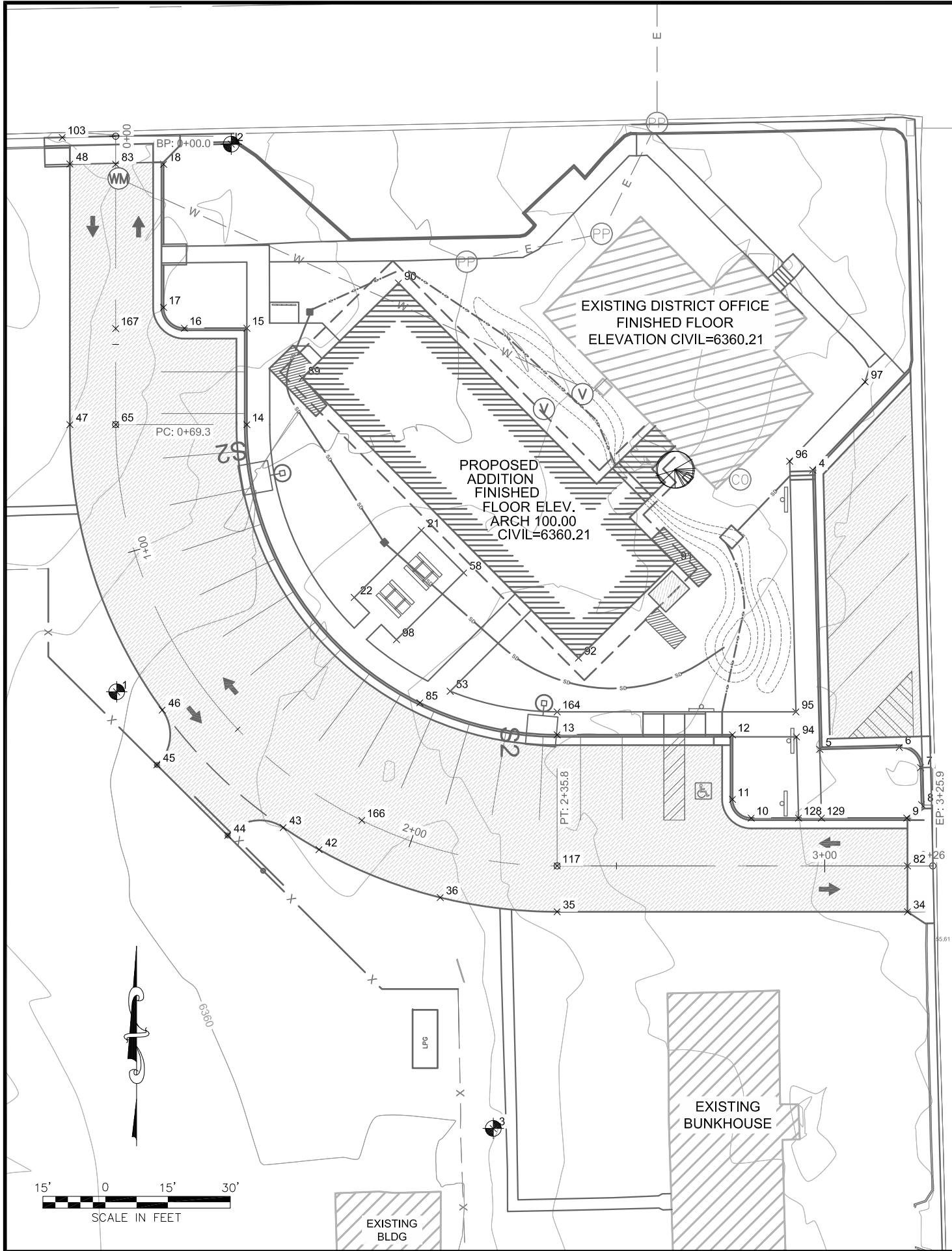
DRAWING TITLE

SITE UTILITY PLAN

DATE 11/29/2018	ARCHIVE NO.
DESIGNER R.ANDERSON	DRAWING SHEET NO. C4
DRAWN R.ANDERSON	
CHECKED D.JEPPSEN	
PROJECT NO.	SHEET 7 OF 119



12318 07:49 RTANDERSON X:\ASHLEY\FLAMINGGORGERANGERDISTRICT.ADDITION.2017\DWG\C1-C.DWG:



Point Table				
Point #	Northing	Easting	Elevation	Description
164	14889036.26	1992794.54	6358.22	SW
129	14889010.76	1992858.00	6356.99	SW
128	14889010.76	1992852.50	6357.10	SW
117	14888999.26	1992794.54	6358.24	CL
103	14889174.21	1992675.73	6362.86	GUTTER EXIST
98	14889053.60	1992755.96	6359.83	CONC
97	14889115.52	1992868.48	6355.73	SW
96	14889096.46	1992850.38	6366.24	SW
95	14889036.26	1992851.87	6356.92	SW
94	14889030.26	1992852.02	6356.80	SW
92	14889049.20	1992799.68	6356.92	BLDG
91	14889072.00	1992822.78	6356.92	BLDG
90	14889139.25	1992756.45	6356.92	BLDG
89	14889116.45	1992733.34	6356.92	BLDG
85	14889038.45	1992761.58	6359.51	TBC
83	14889167.78	1992688.54	6362.50	cl
82	14888999.26	1992878.66	6355.83	cl
65	14889105.26	1992688.54	6361.25	cl
58	14889069.66	1992772.10	6360.00	CONC
53	14889041.22	1992768.86	6356.92	SW
48	14889167.83	1992677.54	6362.72	EP
47	14889105.26	1992677.54	6361.64	EP
46	14889036.71	1992699.73	6360.24	EP
45	14889023.52	1992698.43	6359.78	EP
44	14889006.58	1992715.44	6359.38	EP
43	14889008.49	1992728.78	6359.42	EP
42	14889003.18	1992737.38	6359.28	EP
36	14888991.68	1992766.46	6358.85	EP
35	14888988.26	1992794.54	6358.66	EP
34	14888988.26	1992878.66	6356.06	EP
22	14889063.75	1992745.83	6359.62	CONC
21	14889079.88	1992761.95	6359.78	CONC
18	14889167.78	1992700.04	6362.28	TBC
17	14889133.41	1992700.04	6362.54	TBC
16	14889128.41	1992705.04	6362.64	TBC
15	14889128.41	1992720.04	6362.34	TBC
14	14889105.26	1992720.04	6360.65	TBC
13	14889030.76	1992794.54	6358.11	TBC
12	14889030.76	1992836.65	6357.42	TBC
11	14889015.26	1992836.65	6357.73	TBC
10	14889010.76	1992841.15	6357.64	TBC
9	14889010.76	1992878.50	6356.10	TBC
8	14889013.98	1992882.04	6355.94	TBC
7	14889022.87	1992881.81	6355.88	TBC
6	14889027.74	1992876.69	6356.31	TBC
5	14889027.27	1992857.60	6356.69	TBC
4	14889094.33	1992855.93	6356.12	TBC
3	14888936.20	1992779.20	6359.11	CP3
2	14889172.62	1992716.29	6361.78	CP2
1	14889041.07	1992688.78	6391.14	CP1



United States Department of Agriculture
Forest Service

(R04)
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Fred

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER
DISTRICT
ADDITION

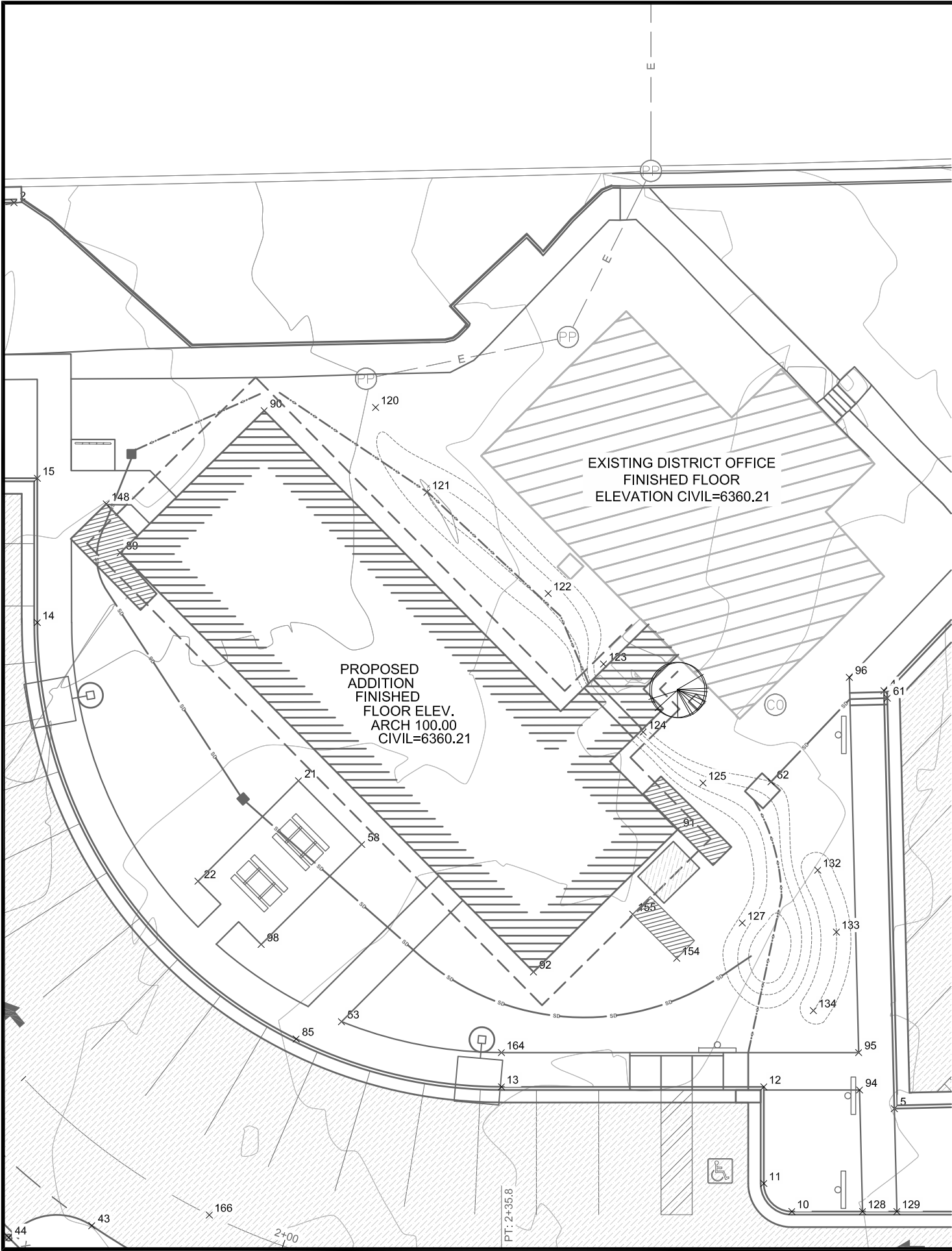
ASHLEY NATIONAL
FOREST

FLAMING GORGE DISTRICT

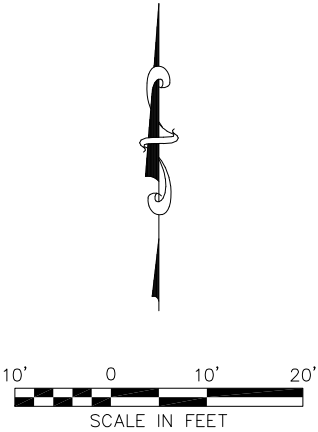
DRAWING TITLE

SITE GRADING AND
DRAINAGE PLAN

DATE 11/29/2018	ARCHIVE NO.
DESIGNER R.ANDERSON	DRAWING SHEET NO. C5
DRAWN R.ANDERSON	
CHECKED D.JEPPSEN	
PROJECT NO.	SHEET 8 OF 119



Point Table				
Point #	Northing	Easting	Elevation	Description
155	14889058.46	1992815.60	-1.82	PLANTER
154	14889051.39	1992822.68	-1.82	PLANTER
148	14889124.29	1992731.10	6356.92	PLANTER
134	14889042.99	1992844.60	6358.00	BERM
133	14889055.59	1992848.31	6358.00	BERM
132	14889065.52	1992845.31	6358.00	BERM
127	14889057.06	1992833.18	6356.82	SWALE
126	14889072.58	1991851.54	6356.33	SWALE
125	14889079.51	1992826.89	6356.51	SWALE
124	14889087.70	1992817.29	6356.81	SWALE
123	14889098.60	1992810.92	6356.92	SWALE
122	14889109.93	1992802.03	6357.56	SWALE
121	14889126.15	1992782.57	6358.29	SWALE
120	14889139.77	1992774.34	6358.81	SWALE
62	14889079.71	1992837.80	6355.77	INV
61	14889093.13	1992856.46	6355.62	INV



United States Department of Agriculture
Forest Service

(R04)
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Fred

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER
DISTRICT
ADDITION

ASHLEY NATIONAL
FOREST

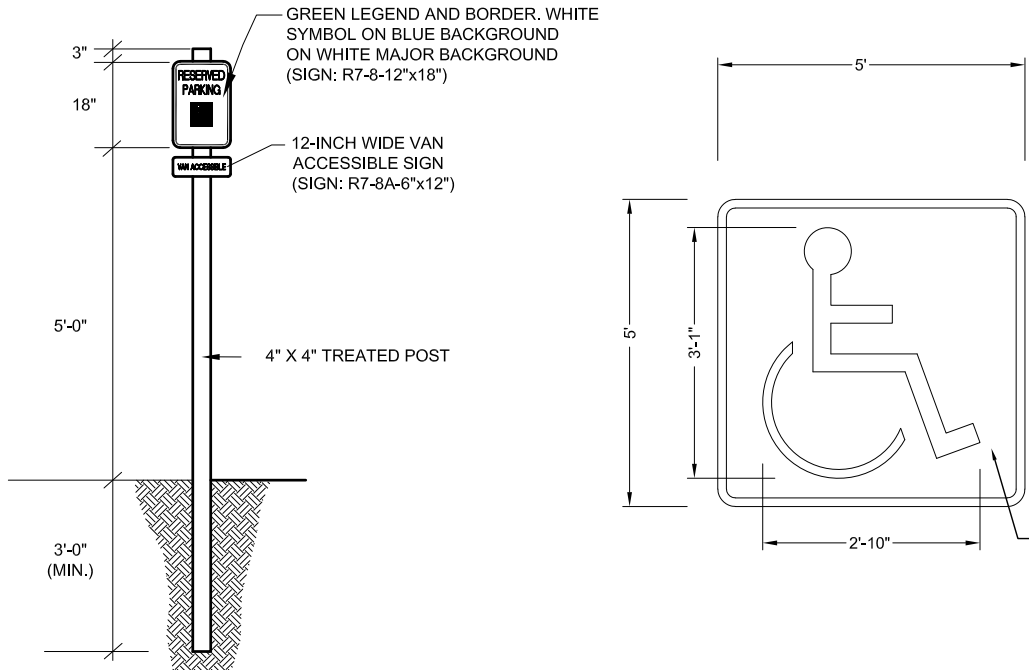
FLAMING GORGE DISTRICT

DRAWING TITLE

FINE SITE LAYOUT AND
GRADING PLAN

DATE 11/29/2018	ARCHIVE NO.
DESIGNER R.ANDERSON	DRAWING SHEET NO. C6
DRAWN R.ANDERSON	
CHECKED D.JEPPSEN	
PROJECT NO.	SHEET 9 OF 119

12/1/18 11:29 RTANDERSON X:\ASHLEY\FLAMINGGORGERANGERDISTRICT.ADDITION.2017\DWG\01_D4.DWG

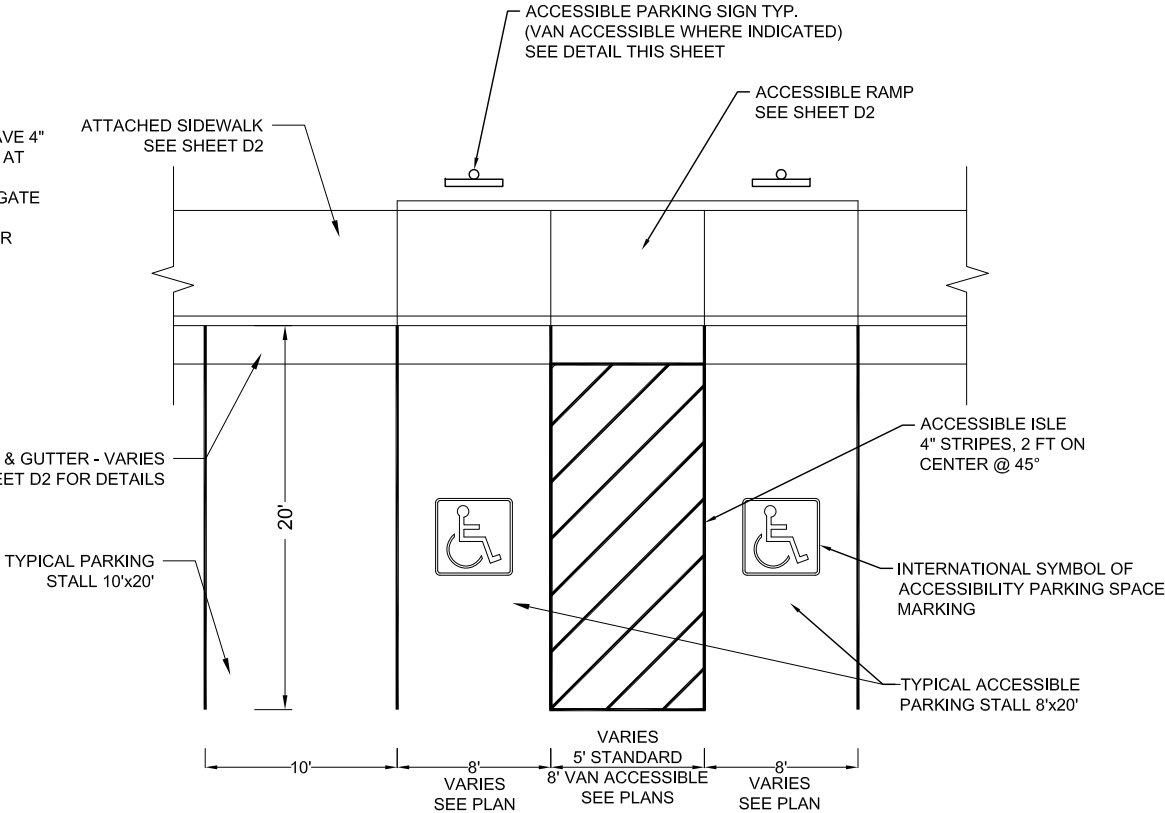


ACCESSIBLE PARKING SIGNS

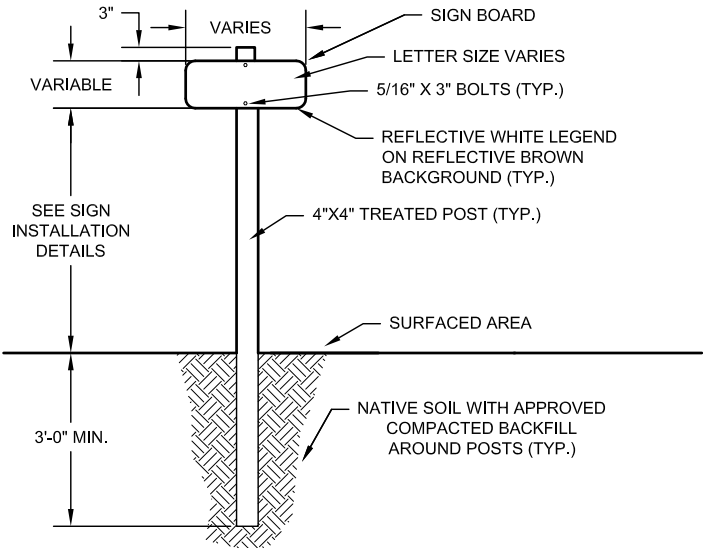
INTERNATIONAL SYMBOL OF ACCESSIBILITY PARKING SPACE MARKING

PAVEMENT PARKING NOTES:

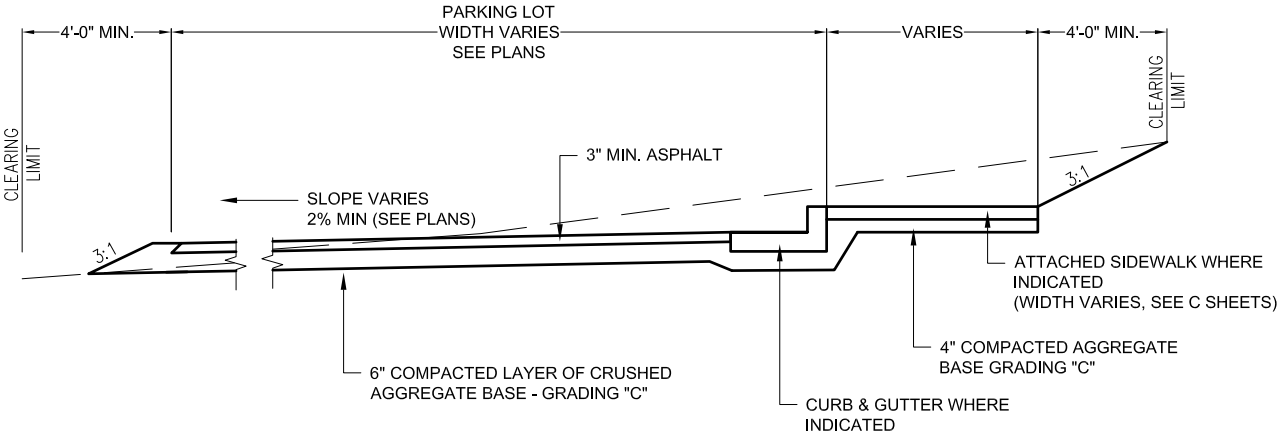
1. PARKING PAINT STRIPING SHALL BE 4" WIDE YELLOW LINES.
2. PAINTED ACCESSIBLE ISLES SHALL HAVE 4" WIDE REFLECTORIZED YELLOW LINES AT 45° EVERY 2' O.C.
3. PARKING STALLS LOCATED IN AGGREGATE PARKING AREAS DO NOT NEED TO BE PAINTED, THE STALLS ARE SHOWN FOR REFERENCE ONLY.
4. PAVEMENT MARKINGS SHALL BE IN ACCORDANCE SPECIFICATION 322640.



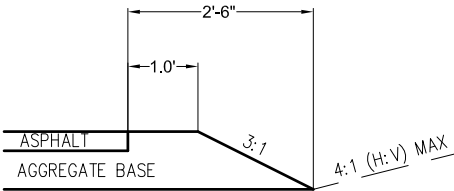
ACCESSIBLE PARKING STALL AND TYPICAL PARKING STALL LAYOUT



SINGLE POST SIGNS



PAVED PARKING SECTION w/ CURB & GUTTER



TYPICAL SHOULDER



United States Department of Agriculture
Forest Service

(R04)
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Fred

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER
DISTRICT
ADDITION

ASHLEY NATIONAL
FOREST

FLAMING GORGE DISTRICT

DRAWING TITLE

ACCESSIBILITY DETAILS
AND PARKING AREA
SECTION

DATE 11/29/2018	ARCHIVE NO.
DESIGNER R.ANDERSON	DRAWING SHEET NO. D1
DRAWN R.ANDERSON	
CHECKED D.JEPPSEN	
PROJECT NO.	SHEET 10 OF 119

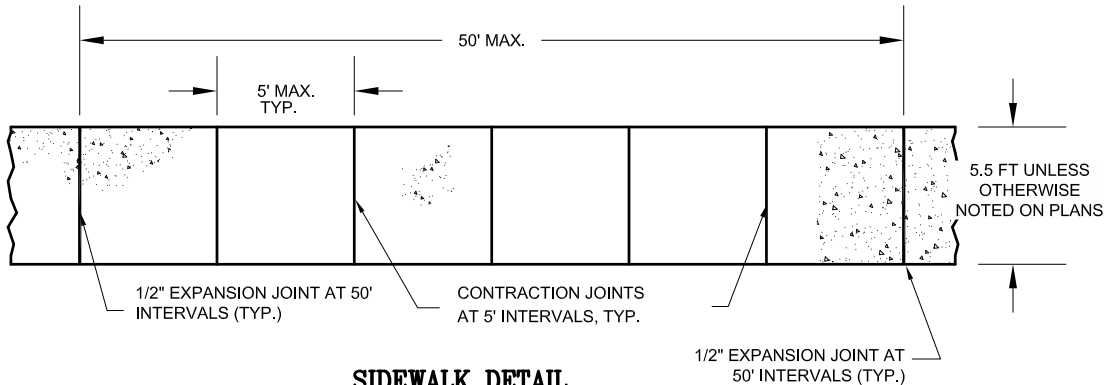
NOTES:

SIDEWALKS

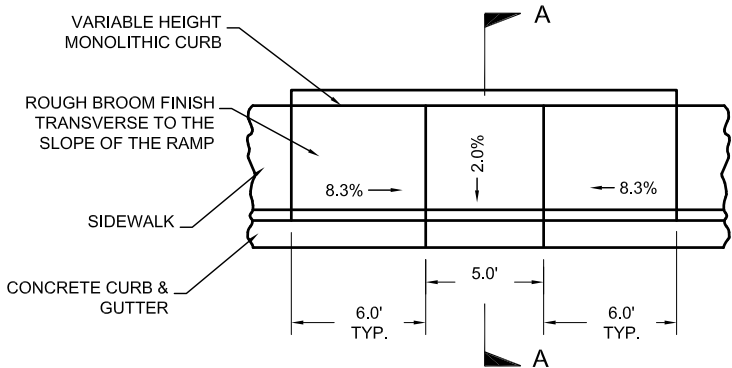
1. ALL SIDEWALKS SHALL HAVE A MINIMUM THICKNESS OF 4" UNLESS OTHERWISE NOTED.
2. ALL SIDEWALKS SHALL BE PLACED ON A MINIMUM 4" LAYER OF AGGREGATE GRADING "C".
3. MAX CROSS SLOPE OF 2.0%

CURB & GUTTERS

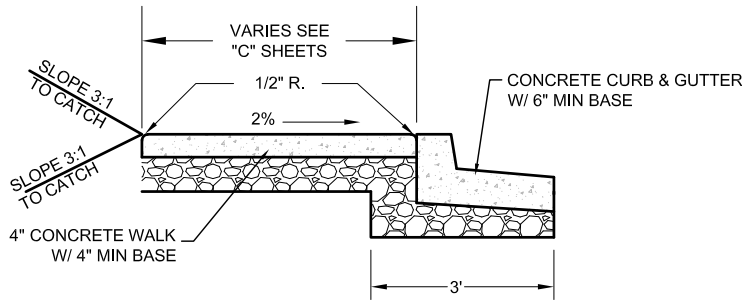
1. CONTRACTION JOINTS EVERY 10' O.C. 1/2" DEEP, EXPANSION JOINTS EVERY 50' O.C.
2. MINIMUM 0.5% LONGITUDINAL SLOPE FOR VALLEY GUTTER AND 30 INCH CURB & GUTTER.
3. PLACED ON A MINIMUM 6" LAYER OF COMPACTED AGGREGATE GRADING "C".



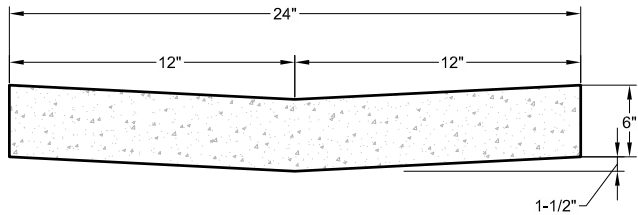
SIDEWALK DETAIL
NO SCALE



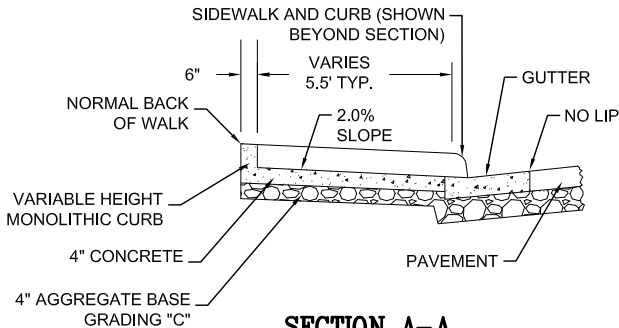
ACCESSIBLE RAMP DETAIL
NO SCALE



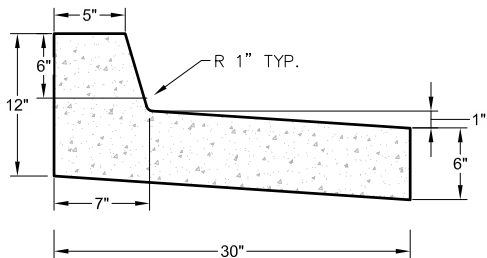
ATTACHED SIDEWALK SECTION
NO SCALE



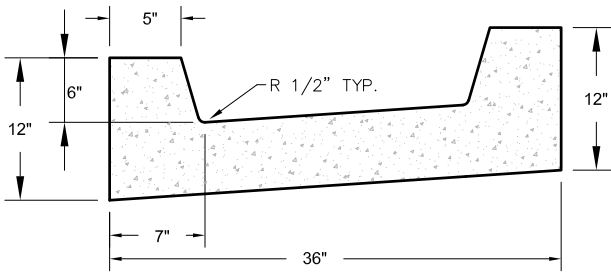
VALLEY GUTTER DETAIL



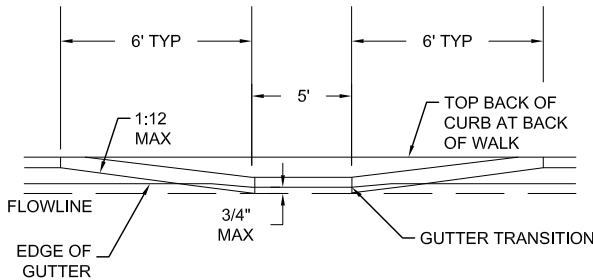
SECTION A-A
NO SCALE



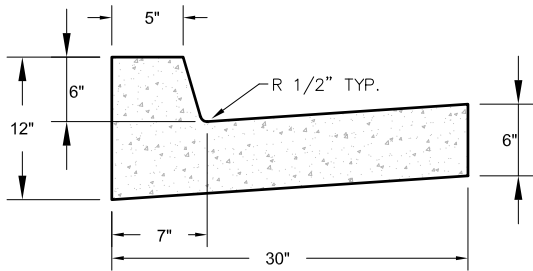
SHED CURB & GUTTER DETAIL



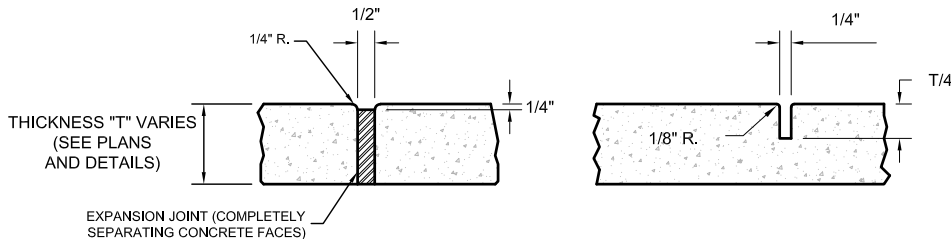
THROUGH-CHANNEL DETAIL



ACCESSIBLE RAMP SECTION
NO SCALE

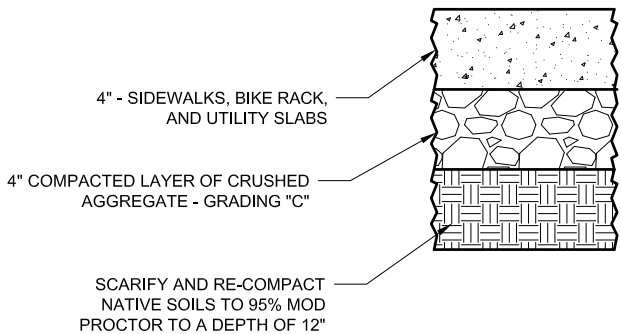


"L" CURB & GUTTER DETAIL



EXPANSION JOINT DETAIL
NO SCALE

CONTRACTION JOINT DETAIL
NO SCALE



CONCRETE SECTION DETAIL



United States Department of Agriculture
Forest Service

(R04)
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Fred

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

**FLAMING GORGE
RANGER
DISTRICT
ADDITION**

**ASHLEY NATIONAL
FOREST**

FLAMING GORGE DISTRICT

DRAWING TITLE

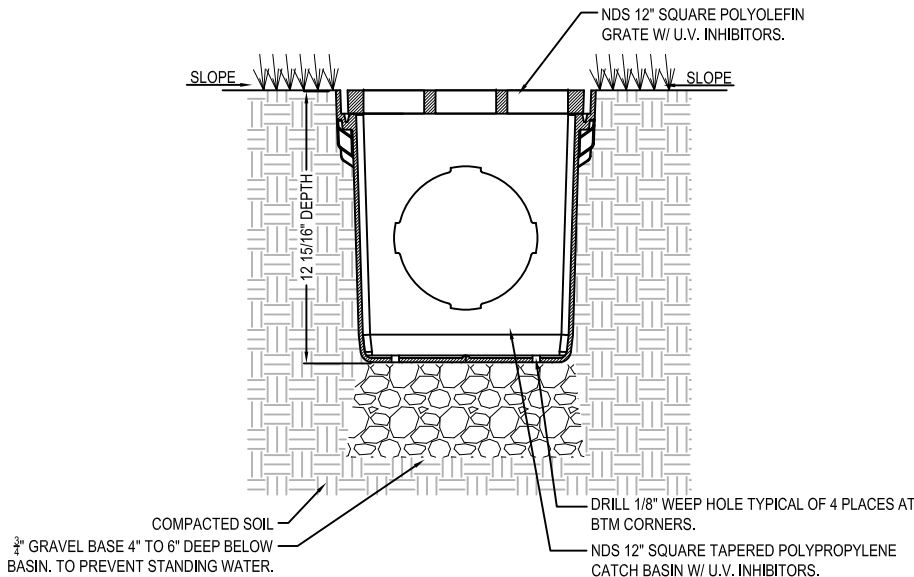
**CURB, GUTTER AND
SIDEWALK DETAILS**

DATE 11/29/2018	ARCHIVE NO.
DESIGNER R.ANDERSON	DRAWING SHEET NO. D2
DRAWN R.ANDERSON	
CHECKED D.JEPPSEN	
PROJECT NO.	SHEET 11 OF 119



NDS[®]
We put water in its place

NDS, INC.
851 NORTH HARVARD AVE.
LINDSAY, CA 93247
TOLL FREE: 1-800-726-1994
PHONE: (559) 562-9888
FAX: (559) 562-4488
www.ndspro.com



SECTION

- NOTES:
1. GRATE TO BE ATTACHED TO CATCH BASIN WITH SCREW PROVIDED AT TIME OF INSTALLATION.
 2. RISER CAN BE CUT TO ACHIEVE EXACT ELEVATION.
 3. DO NOT USE OVER 5 RISERS WITH CATCH BASIN.
 4. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 5. DO NOT SCALE DRAWING.
 6. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY.
 7. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.

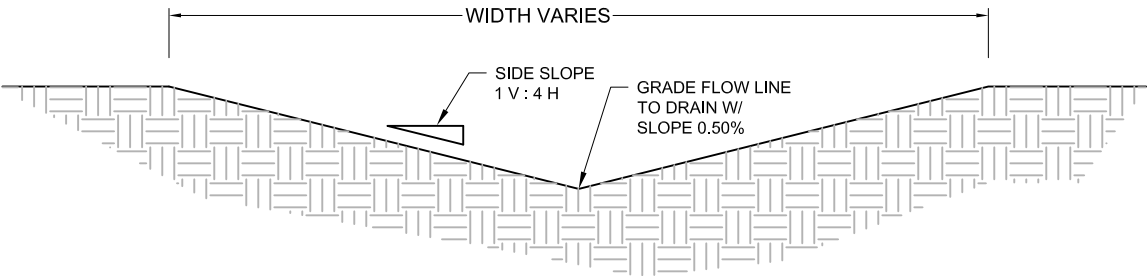


SQUARE CATCH BASIN

12" SQUARE CATCH BASIN - TYPICAL INSTALLATION FOR LANDSCAPE APPLICATIONS



REVISION DATE 8-24-2015



DETENTION BASIN SECTION



United States Department of Agriculture
Forest Service

(R04)
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Freed

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

**FLAMING GORGE
RANGER
DISTRICT
ADDITION**

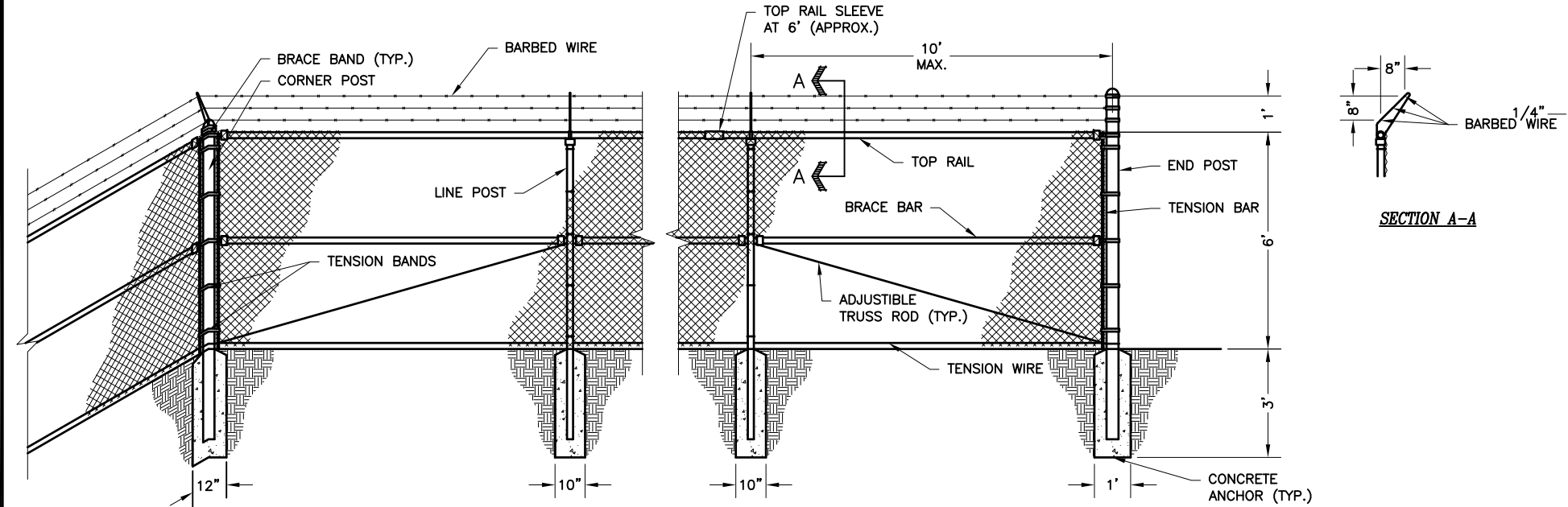
**ASHLEY NATIONAL
FOREST**

FLAMING GORGE DISTRICT

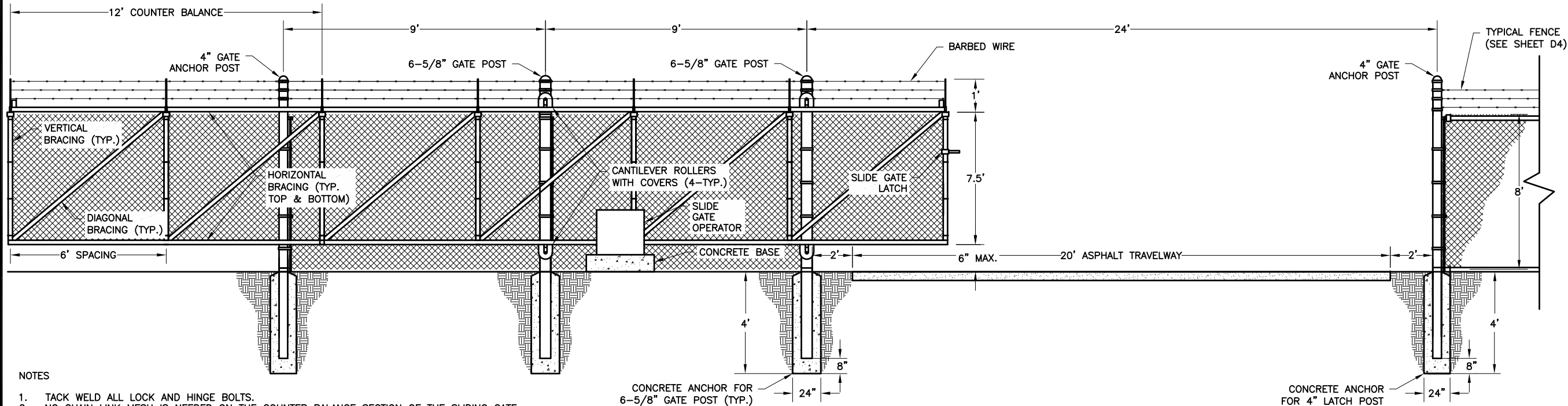
DRAWING TITLE

**NDS INLET BASIN AND
DETENTION BASIN
DETAILS**

DATE 11/29/2018	ARCHIVE NO.
DESIGNER R.ANDERSON	DRAWING SHEET NO. D3
DRAWN R.ANDERSON	
CHECKED D.JEPPSEN	
PROJECT NO.	SHEET 12 OF 119



**CHAIN LINK FENCE
WITH BARBED WIRE**



- NOTES
1. TACK WELD ALL LOCK AND HINGE BOLTS.
 2. NO CHAIN LINK MESH IS NEEDED ON THE COUNTER BALANCE SECTION OF THE SLIDING GATE.
 3. GATE POSTS ADJACENT TO TRAVELWAY SHALL BE 2' OFFSET OF ASPHALT.
 4. POST CONCRETE ANCHORS SHALL BE 24" DIA. AND 4' DEEP, (4 TYPICAL).

**24' MECHANICAL CHAIN LINK SLIDING
GATE WITH BARBED WIRE PROFILE**



United States Department of Agriculture
Forest Service

(R04)
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Freel

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

**FLAMING GORGE
RANGER
DISTRICT
ADDITION**

**ASHLEY NATIONAL
FOREST**

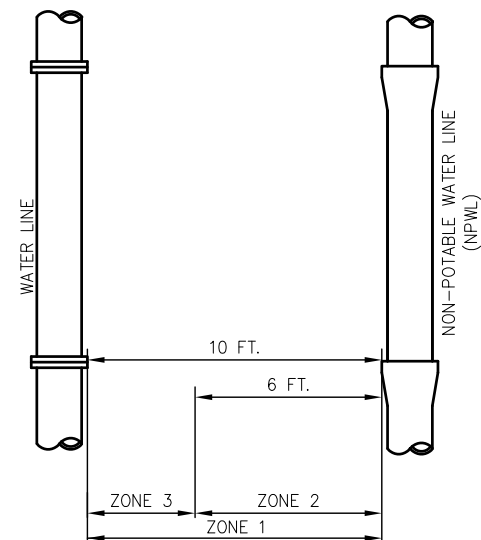
FLAMING GORGE DISTRICT

DRAWING TITLE

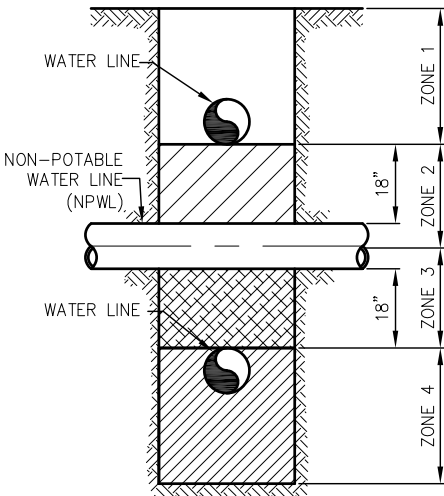
**MECHANICAL GATE AND
FENCE DETAILS**

DATE 11/29/2018	ARCHIVE NO.
DESIGNER R.ANDERSON	DRAWING SHEET NO. D4
DRAWN R.ANDERSON	
CHECKED D.JEPPSEN	
PROJECT NO.	SHEET 13 OF 119

12/1/18 11:29 RTANDERSON X:\ASHLEY\FLAMINGGORGERDISTRICT\ADDITION.2017\DWG01_D4.DWG



HORIZONTAL SEPARATION REQUIREMENTS



VERTICAL SEPARATION REQUIREMENTS

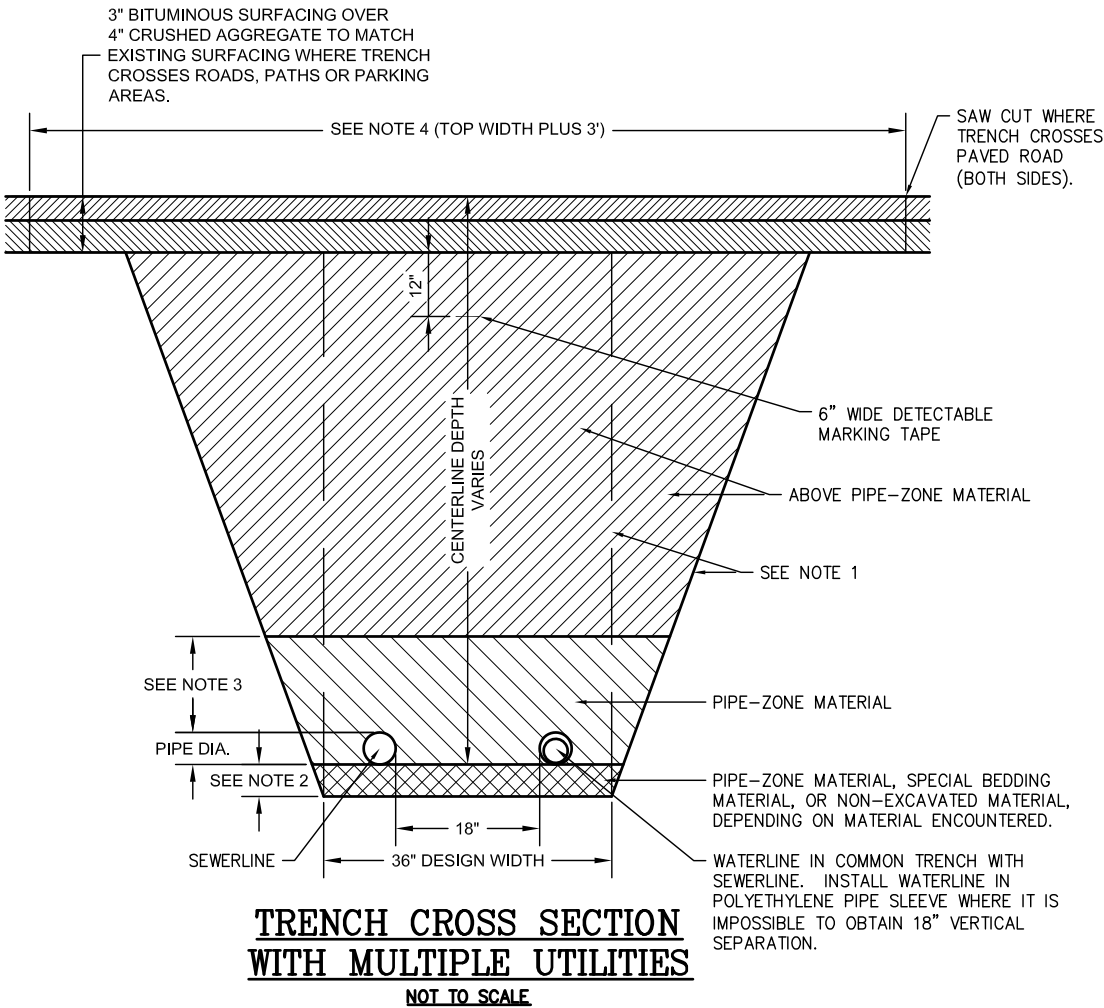
POTABLE & NON-POTABLE UTILITY LINE
INTERSECTION DETAILS

- NOTES:
- ZONE 1: A) WATERLINE AND NPWL SEPARATED 10' OR MORE – NO SPECIAL REQUIREMENTS
- ZONE 2: A) WATERLINE AND NPWL SEPARATED BY AT LEAST 6 FEET AT OUTSIDE WALLS.
- AND B) WATERLINE AT LEAST 18 INCHES HIGHER IN ELEVATION THAN THE NPWL.
- AND EITHER C) NPWL CONSTRUCTED TO WATER MAIN STANDARDS AND PRESSURE TESTED FOR WATER TIGHTNESS.
- OR D) NPWL ENCASED IN AT LEAST 4 INCHES OF CONCRETE MEASURED AT THE BELL.
- OR E) SITE SPECIFIC REQUIREMENTS APPROVED BY DEQ.
- ZONE 3: WATER AND NPWL SEPARATED LESS THAN 6' – NOT ALLOWED.

- NOTES:
- ZONE 1: A) WATERLINE ABOVE NPWL MUST BE SEPARATED BY AT LEAST 18 INCHES.
- AND B) ONE FULL, UN CUT LENGTH OF WATER PIPE MUST BE CENTERED OVER THE CROSSING SO THAT THE JOINTS ARE AS FAR AS POSSIBLE FROM THE NPWL.
- ZONE 2: A) WATERLINE ABOVE NPWL, LESS THAN 18 INCHES – ONE FULL, UN CUT LENGTH OF WATER PIPE MUST BE CENTERED OVER THE CROSSING SO THAT THE JOINTS ARE AS FAR AS POSSIBLE FROM THE NPWL.
- OR B) NPWL MAIN MUST BE CONSTRUCTED TO WATER MAIN STANDARDS AND PRESSURE TESTED FOR WATER TIGHTNESS FOR A HORIZONTAL DISTANCE OF 10 FEET ON BOTH SIDES OF CROSSING.
- OR C) EITHER THE NPWL OR WATER MAIN OR BOTH MUST BE ENCASED IN AT LEAST 4 INCHES OF CONCRETE MEASURED AT THE BELL FOR A HORIZONTAL DISTANCE OF 10 FEET ON BOTH SIDES OF THE CROSSING.
- ZONE 3: WATERLINE BELOW NPWL, LESS THAN 18 INCHES – SAME REQUIREMENTS AS ZONE 2 EXCEPT THE NPWL MUST ALSO BE SUPPORTED ABOVE THE CROSSING TO PREVENT SETTLING.
- ZONE 4: WATERLINE ABOVE NPWL, MORE THAN 18 INCHES SAME REQUIREMENTS AS ZONE 1 EXCEPT THE NPWL MUST ALSO BE SUPPORTED ABOVE THE CROSSING TO PREVENT SETTLING.

TRENCHING NOTES:

- 1.WALLS SHALL BE VERTICAL FOR TRENCHES LESS THAN 5'-0" DEEP AT CENTERLINE. FOR DEPTHS GREATER THAN 5'-0", THE WALLS SHALL BE LAID BACK TO MEET APPLICABLE SAFETY STANDARDS.
- 2.IF BOTTOM OF TRENCH IS UNSATISFACTORY BEDDING MATERIAL, A MINIMUM OF 6" OF PIPE-ZONE MATERIAL OR IMPORTED SPECIAL BEDDING SHALL BE USED DEPENDING ON MATERIAL ENCOUNTERED. IF SOIL IS OF A UNIFORM TEXTURE MEETING PIPE-ZONE MATERIAL SPECIFICATIONS, THIS NEED NOT BE EXCAVATED. IF FOR SEWERLINE, ROUND TRENCH SO BOTTOM HALF OF CIRCUMFERENCE OF THE PIPE WILL REST ON UNDISTURBED SOIL.
- 3.REQUIRED DEPTH OF BEDDING VARIES WITH TYPE OF PIPE. SEE SPECIFICATIONS TO DETERMINE IF OTHER THAN 12" IS REQUIRED OVER TOP OF PIPE.
- 4.IN AREAS WHERE TRENCH RESURFACING IS REQUIRED, THIS INDICATES MAXIMUM PAY WIDTH ALLOWED.
- 5.MAINTAIN 8" MINIMUM HORIZONTAL SEPARATION BETWEEN UTILITY LINES IN THE SAME TRENCH.
- 6.UTILITY LINES SHALL BE BURIED A MINIMUM OF 30 INCHES UNLESS OTHERWISE NOTED, WATER LINES SHALL BE BURIED A MINIMUM OF 48 INCHES..
- 6.WRAP ALL BURIED, NON-METALLIC PIPE WITH TRACER WIRE. WHERE POSSIBLE, ATTACH TRACER WIRE TO OBJECTS OR STRUCTURES ABOVE GRADE (SEE SPECIFICATION SECTION 312000).



(R04)
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Fred

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER
DISTRICT
ADDITION

ASHLEY NATIONAL
FOREST

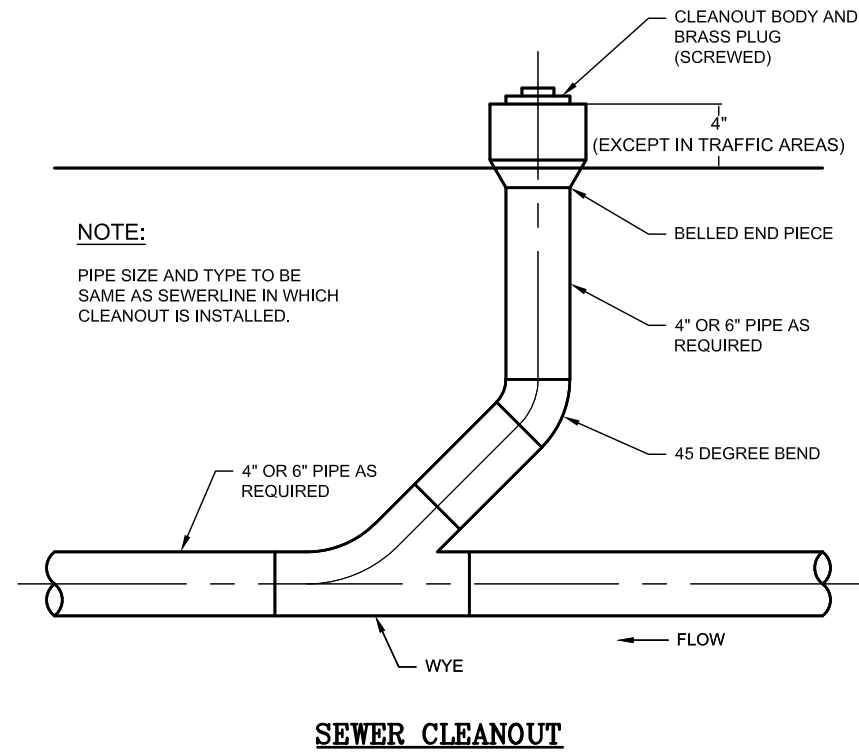
FLAMING GORGE DISTRICT

DRAWING TITLE

TRENCH SEPARATION
DETAILS

DATE 11/29/2018	ARCHIVE NO.
DESIGNER R.ANDERSON	DRAWING SHEET NO. D5
DRAWN R.ANDERSON	
CHECKED D.JEPPSEN	
PROJECT NO.	SHEET 14 OF 119

1/21/18 11:29 RTANDERSON X:\ASHLEY\FLAMINGGORGERANGERDISTRICT\ADDITION\2017\DWG\01_D4.DWG



United States Department of Agriculture
Forest Service

(R04)
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Fred

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

**FLAMING GORGE
RANGER
DISTRICT
ADDITION**

**ASHLEY NATIONAL
FOREST**

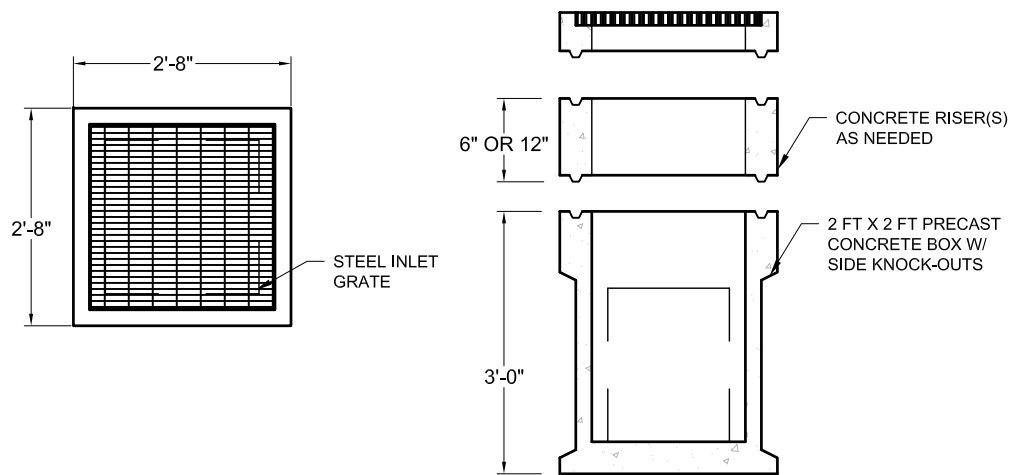
FLAMING GORGE DISTRICT

DRAWING TITLE

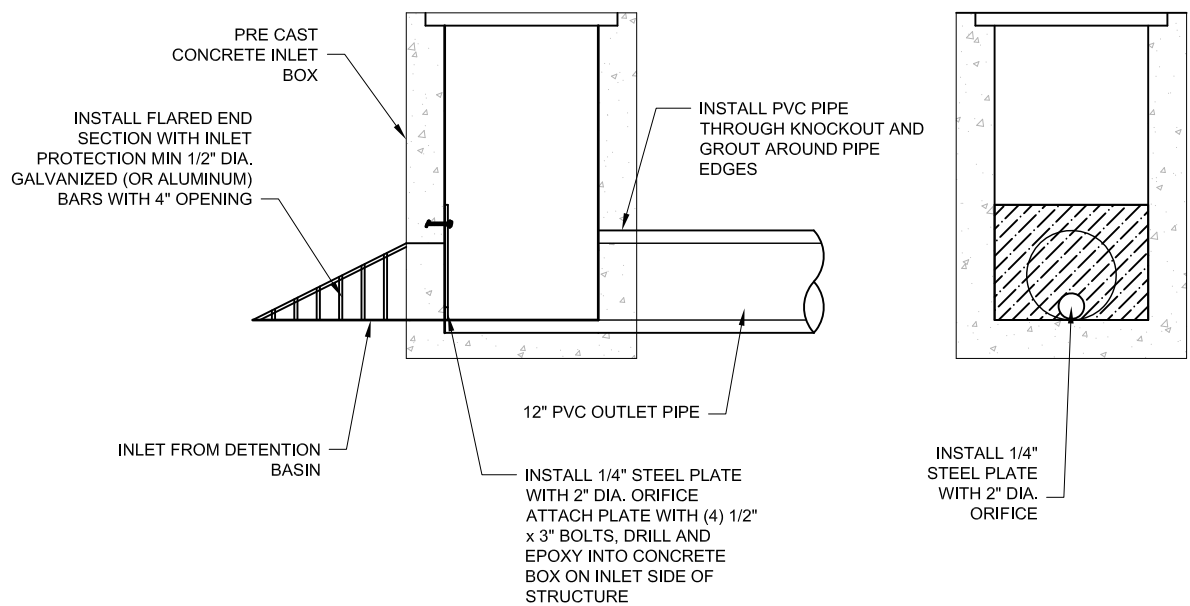
**SANITARY SEWER
CLEANOUT DETAILS**

DATE 11/29/2018	ARCHIVE NO.
DESIGNER R.ANDERSON	DRAWING SHEET NO. D6
DRAWN R.ANDERSON	
CHECKED D.JEPPSEN	
PROJECT NO.	SHEET 15 OF 119

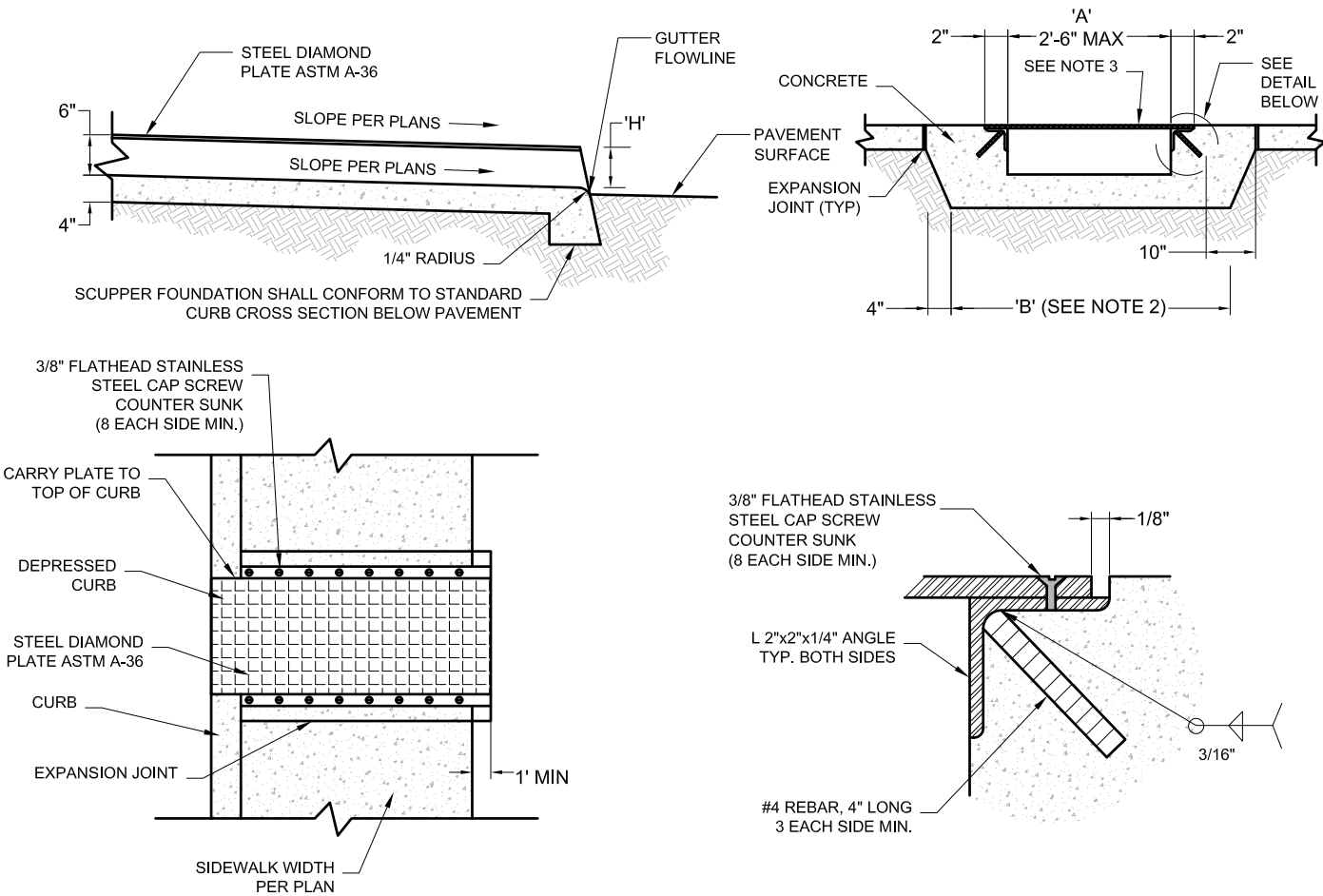
12/1/18 11:23 RTANDERSON X:\ASHLEY\FLAMINGGORGERANGERDISTRICT\ADDITION\2017\DWG01_D4.DWG



PRECAST CONCRETE INLET BOX



DETENTION BASIN OUTLET STRUCTURE



SIDEWALK SCUPPER DETAIL

- NOTES:
1. (—>) INDICATES DIRECTION OF FLOW.
 2. DIMENSION 'B' EQUALS 'A' +1
 3. 1/2" THICK STEEL DIAMOND PLATE SHALL BE PAINTED PER SPECIFICATIONS (MIN 2 COATS).
 4. 'H' EQUALS CURB FACE HEIGHT. DIMENSIONS TO BE NOTED ON PLANS OR ESTABLISHED IN THE FIELD.
 5. FOR CURB AND GUTTER, USE 2 FT TRANSITIONS TO VERTICAL CURB.
 6. FOR MULTIPLE SCUPPERS PROVIDE 4" BETWEEN ADJACENT PANELS OF STEEL DIAMOND PLATE. INTERMEDIATE POSTS FOR BARRICADE RAILINGS SHALL BE PLACED MIDWAY IN 4" AREA BETWEEN ADJACENT PANELS.
 7. STEEL DIAMOND PLATE SHALL BE DELIVERED AS ONE PIECE, CONFORMING TO THE REQUIRED SCUPPER DIMENSIONS. PLATES SHALL NOT BE SPLICED.
 8. SCUPPER FLOW LINE SHALL BE FLUSH WITH PAVEMENT ON INLET SIDE, AND SHALL HAVE A 1" LIP ON OUTLET SIDE OF SCUPPER.



(R04)
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Freed

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER
DISTRICT
ADDITION

ASHLEY NATIONAL
FOREST


FLAMING GORGE DISTRICT

DRAWING TITLE








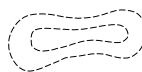
DETENTION BASIN
OUTLET DETAILS

DATE 11/29/2018	ARCHIVE NO.
DESIGNER R.ANDERSON	DRAWING SHEET NO. D7
DRAWN R.ANDERSON	
CHECKED D.JEPPSEN	
PROJECT NO.	SHEET 16 OF 119

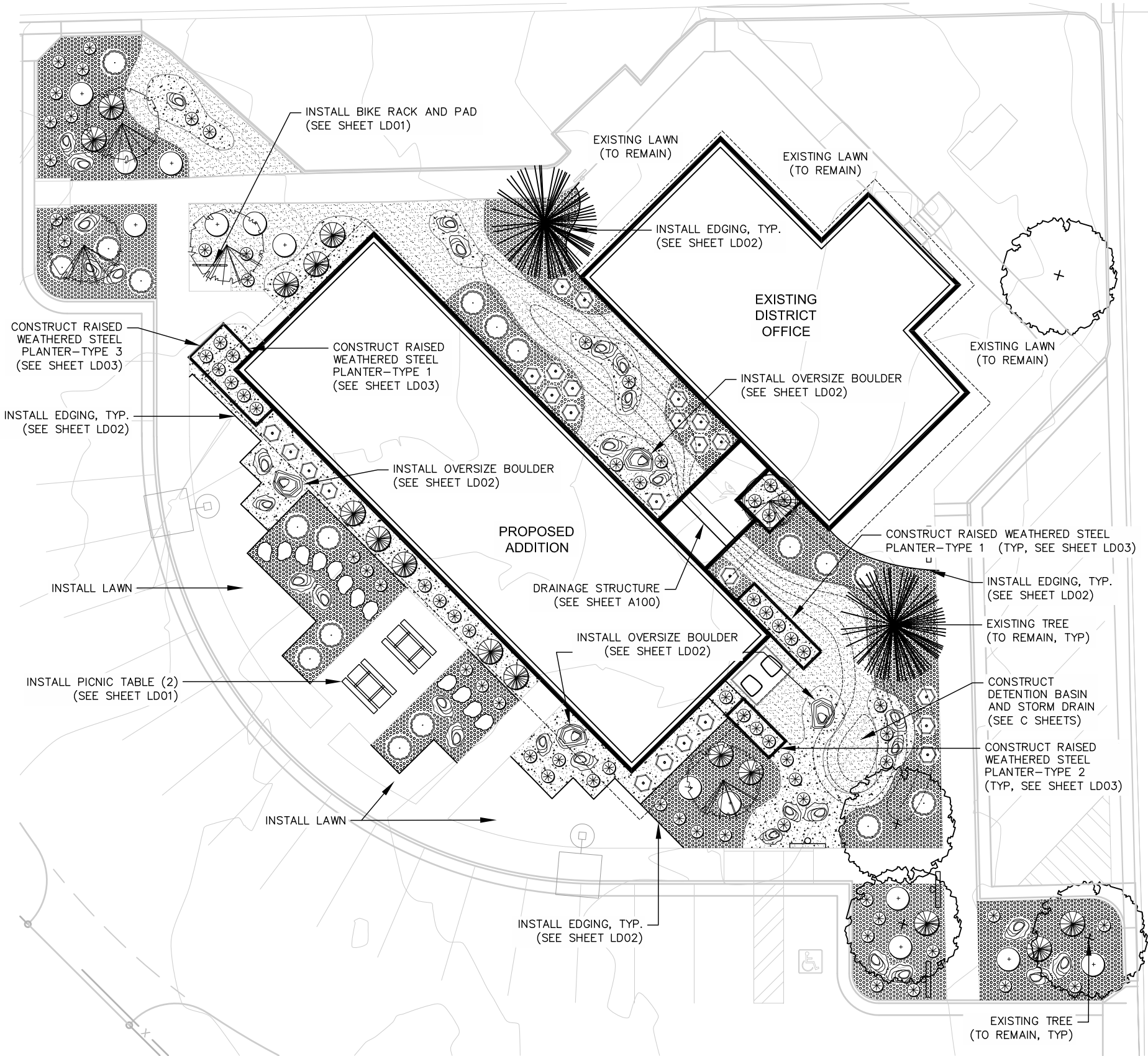
PLANT SCHEDULE

	BOTANICAL NAME	COMMON NAME	SIZE	QTY.
	ACER PALMATUM 'BLOODGOOD'	JAPANESE MAPLE	MULTI-STEM (24" BOX)	1
	PYRUS CALLERYANA 'RED SPIRE'	RED SPIRE FLOWERING PEAR	2" CAL	4
	SPIRAEA X BUMALDA 'GOLD FLAME'	GOLD FLAME SPIREA	5 GAL	18
	NEPETA X FAASSENII 'WALKER'S LOW'	WALKER'S LOW CATMINT	5 GAL	13
	PINUS MUGO 'PUMILLIO'	DWARF MUGO PINE	5 GAL	15
	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	FEATHER REED GRASS	1GAL	25
	FESTUCA OVINA 'GLAUCA'	ELIJAH BLUE FESCUE	1 GAL	72

LANDSCAPE ELEMENTS

-  1" APACHE GOLD DECORATIVE GRAVEL
(3" UNIFORM DEPTH, TYP)
-  4"-6" GREY RIVER ROCK (4" UNIFORM DEPTH, TYP)
-  2"-4" BASALT ANGULAR ROCK
(4" UNIFORM DEPTH, TYP)
-  WEATHERED STEEL PLANTER (3, CUSTOM)
-  DECORATIVE LANDSCAPE BOULDER (30, TYP)
-  OVERSIZED DECORATIVE LANDSCAPE BOULDER (4, TYP)
-  FLAGSTONE STEPPER (12, TYP)
SIZE: 2' X 3' MINIMUM
-  LANDSCAPED DRAINAGE SWALE
(SEE GRADING/DRAINAGE PLAN)

- NOTES:
- SEE SHEET LD01 FOR PLANTING DETAILS.
 - PLANT QUANTITIES ARE PROVIDED FOR CONVENIENCE ONLY. THE DRAWING SHOWING PLANTING LAYOUT SUPERCEDES THE PLANT SCHEDULE.
 - INSTALL EDGING BETWEEN ALL LAWN AND DECORATIVE GRAVEL/ROCK AREAS AND/OR AS SHOWN ON THE DRAWINGS.
 - ALL PLANTINGS INCLUDING: TREES, SHRUBS, GROUNDCOVERS AND NATIVE GRASS AREAS SHOWN ON THIS PLAN WITHIN THE CONSTRUCTION LIMIT LINE SHALL HAVE A PERMANENT IRRIGATION SPRINKLER SYSTEM DESIGNED BY AND INSTALLED BY THE CONTRACTOR TO IRRIGATE THESE AREAS AS SHOWN ON THIS PLAN.
 - SEE SPECIFICATION 328000 FOR IRRIGATION SYSTEM DESIGN AND CONSTRUCTION REQUIREMENTS.
 - INSTALL DECORATIVE ALL GRAVEL/ROCK TO A UNIFORM COMPACTED 3-INCH DEPTH IN ALL LOCATIONS AS IDENTIFIED ON THE DRAWINGS. INSTALL DECORATIVE GRAVEL IN ALL LOCATIONS NOT SHOWN AS LAWN OR FLAGSTONE. (SEE SPECIFICATION 329400).
 - EXISTING TREES SHOWN ARE FOR CONVENIENCE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL NUMBER AND LOCATION OF TREES, SHRUBS AND VEGETATION TO BE REMOVED.



United States Department of Agriculture
Forest Service

(R04)
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Fred

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER
DISTRICT
ADDITION

ASHLEY NATIONAL
FOREST

FLAMING GORGE DISTRICT

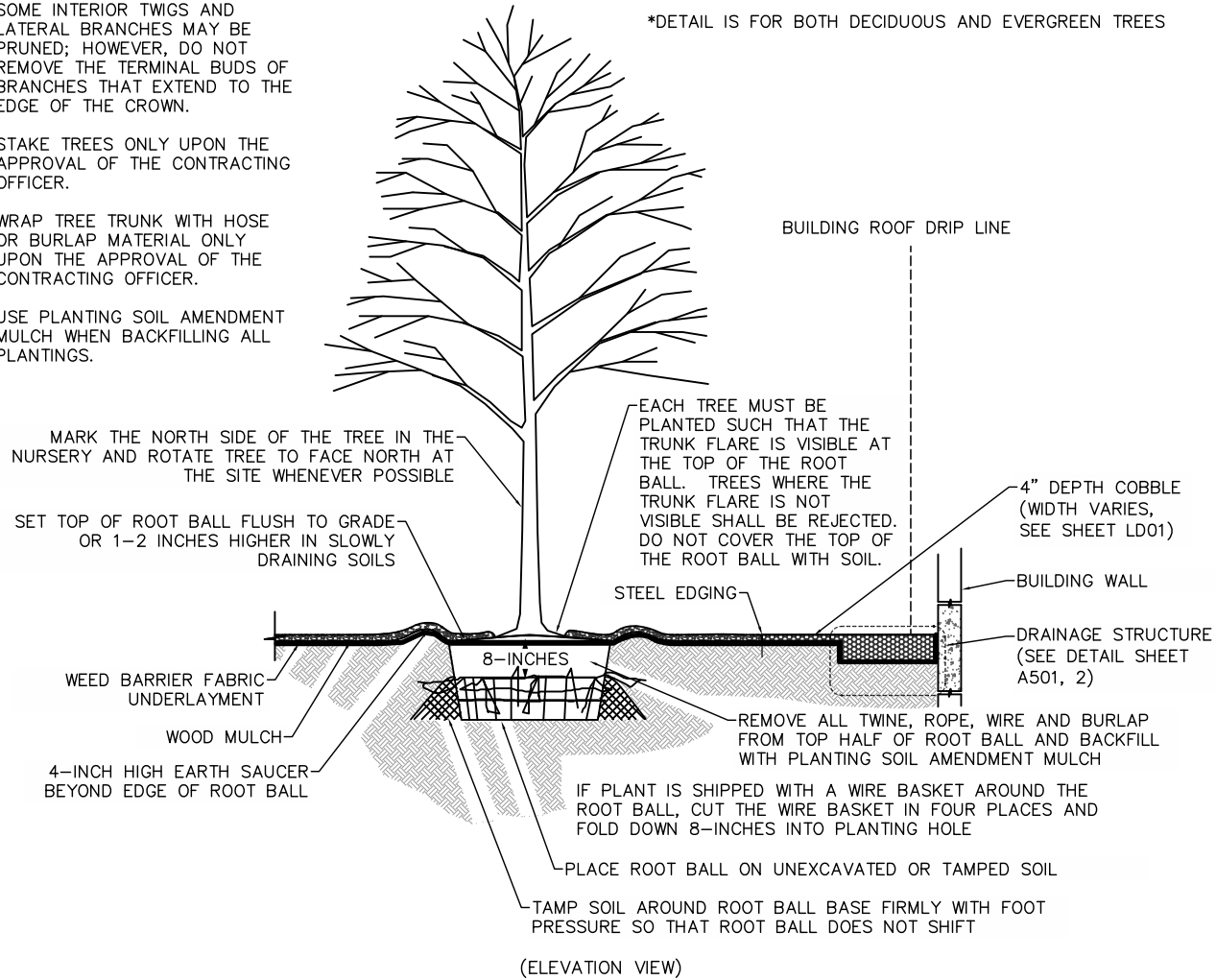
DRAWING TITLE

LANDSCAPE PLAN

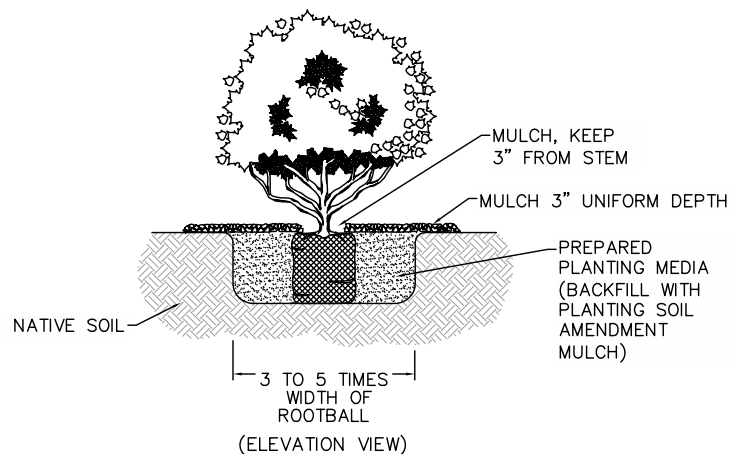
DATE XX/XX/XXXX	ARCHIVE NO.
DESIGNER R. BUDGE	DRAWING SHEET NO. L01
DRAWN R. BUDGE	
CHECKED D. JEPSEN	
PROJECT NO.	SHEET 17 OF 119

NOTES:

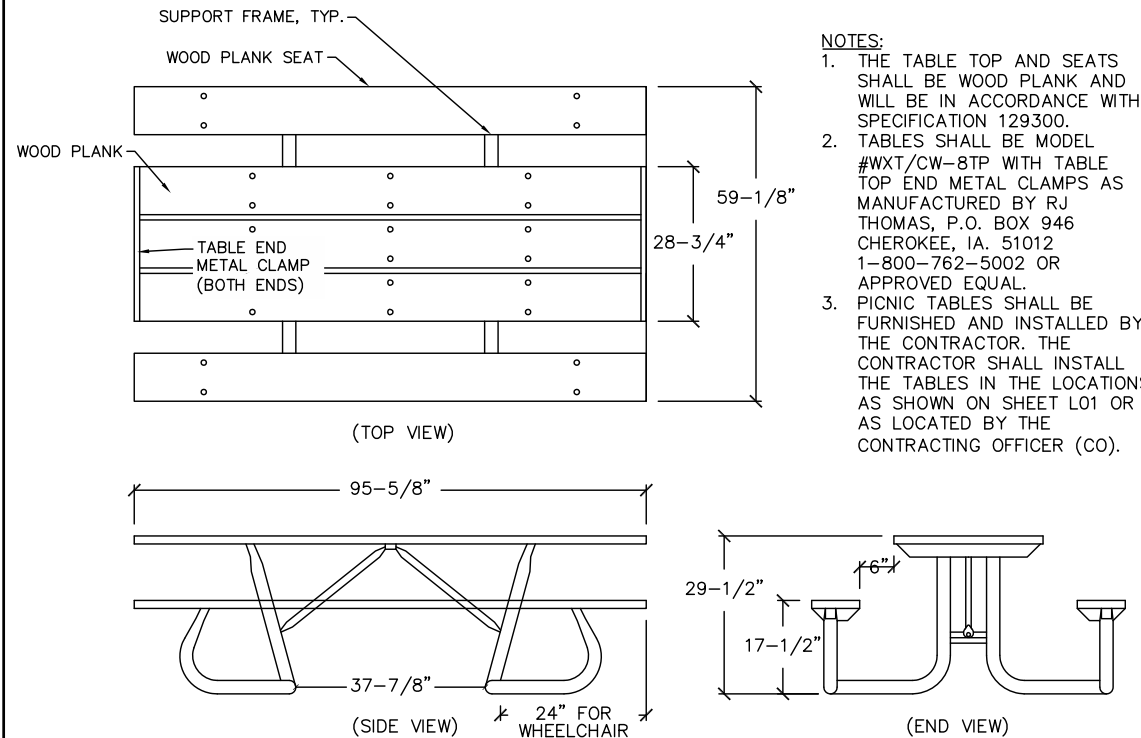
1. PRUNE CROSSOVER LIMBS, CO-DOMINANT LEADERS, AND BROKEN OR DEAD BRANCHES. SOME INTERIOR TWIGS AND LATERAL BRANCHES MAY BE PRUNED; HOWEVER, DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.
2. STAKE TREES ONLY UPON THE APPROVAL OF THE CONTRACTING OFFICER.
3. WRAP TREE TRUNK WITH HOSE OR BURLAP MATERIAL ONLY UPON THE APPROVAL OF THE CONTRACTING OFFICER.
4. USE PLANTING SOIL AMENDMENT MULCH WHEN BACKFILLING ALL PLANTINGS.



TREE PLANTING – DETAIL
NO SCALE



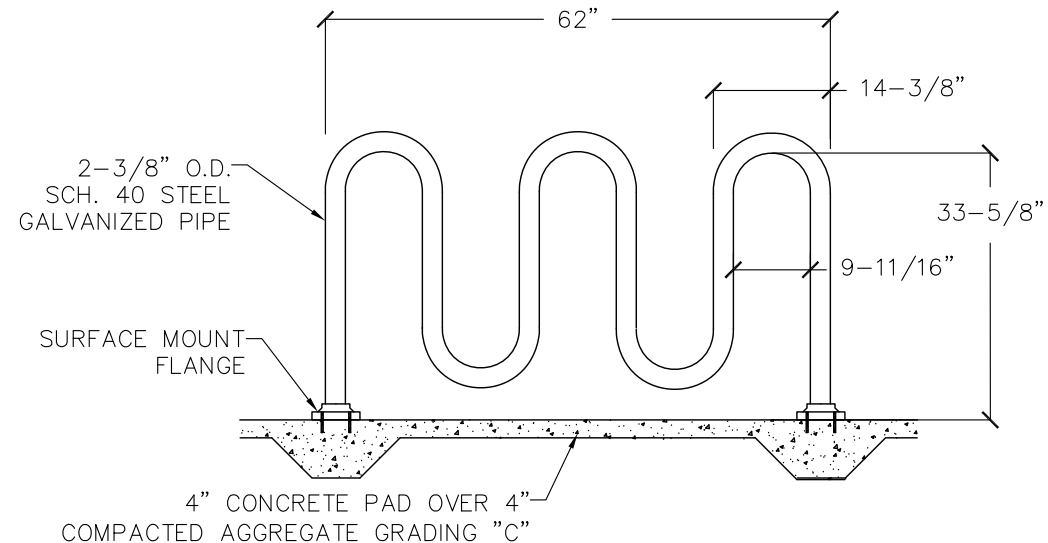
SHRUB PLANTING – DETAIL
NO SCALE



PICNIC TABLE – DETAIL
NO SCALE

NOTES:

1. THICKEN CONCRETE SLAB TO 9" DEPTH UNDER EACH FLANGE FOR ANCHOR WEDGE INSTALLATION.
2. PLACE CONCRETE PAD ON 4" COMPACTED AGGREGATE BASE GRADING "C"
3. INSTALL BIKE RACKS IN THE LOCATIONS AS SHOWN ON SHEET L01 OR AS APPROVED BY THE CONTRACTING OFFICER.
4. BIKE RACKS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE BIKE RACK AND ANCHORING MECHANISMS NECESSARY TO COMPLETE THE INSTALLATION.
5. BIKE RACK SHALL BE PILOT ROCK MODEL: SRP/G-7, ANCHORING SYSTEM MODEL: ANC3-4 AS MANUFACTURED BY THE R.J. THOMAS MFG. CO. INC., CHEROKEE, IOWA OR APPROVED EQUAL. PHONE: 1-800-762-5002, WEB SITE: WWW.PILOTROCK.COM



BIKE RACK INSTALLATION – DETAIL
NO SCALE



United States Department of Agriculture
Forest Service

(R04)
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Fred

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER
DISTRICT
ADDITION

ASHLEY NATIONAL
FOREST

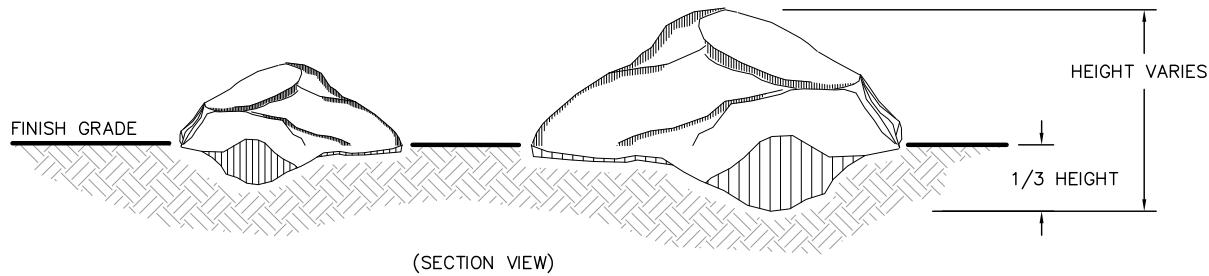
FLAMING GORGE DISTRICT

DRAWING TITLE

PLANTING AND SITE
FURNISHING DETAILS

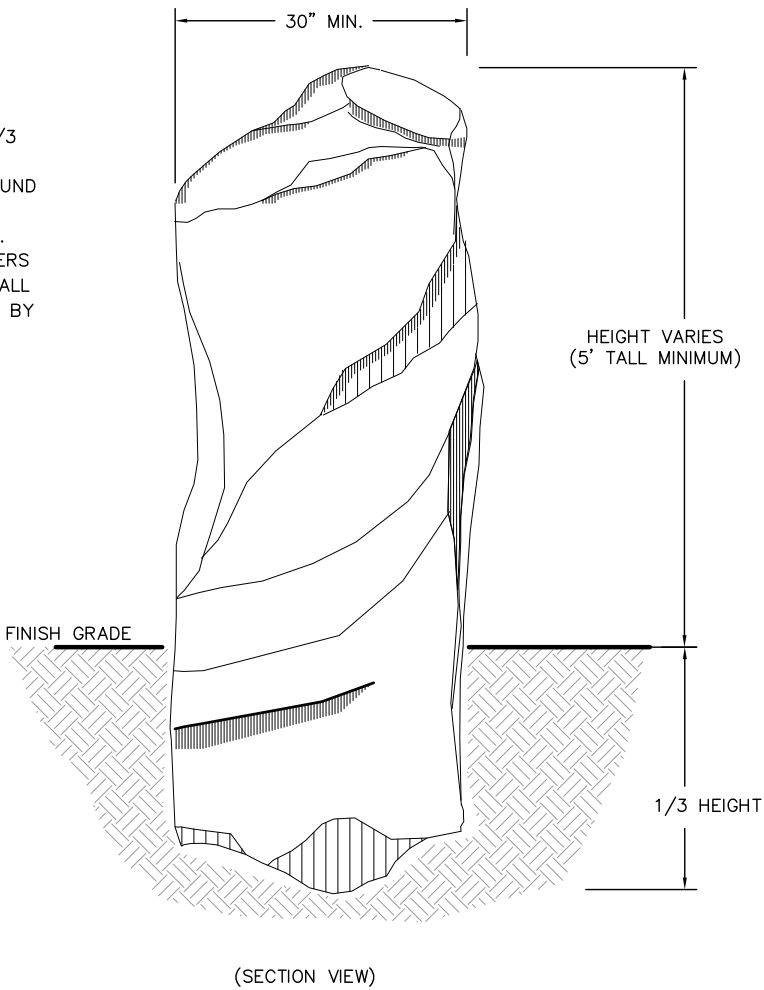
DATE 03/02/2018	ARCHIVE NO.
DESIGNER R.BUDGE	DRAWING SHEET NO. LD01
DRAWN R.BUDGE	
CHECKED D.JEPPSEN	
PROJECT NO.	SHEET 18 OF 119

- DECORATIVE BOULDER NOTES:
1. SET FRACTURED OR SOILED SIDE OF ROCK INTO EARTH AT A DEPTH OF 1/3 THE HEIGHT OF THE BOULDER.
 2. PLACE BOULDERS AT RANDOM SPACINGS SO THEY APPEAR NATURAL.
 3. SELECT DECORATIVE BOULDERS SHALL BE AT LEAST 24" X 36" IN SIZE.
 4. DECORATIVE LANDSCAPE BOULDERS SHALL BE PURCHASED FROM A COMMERCIAL SOURCE.



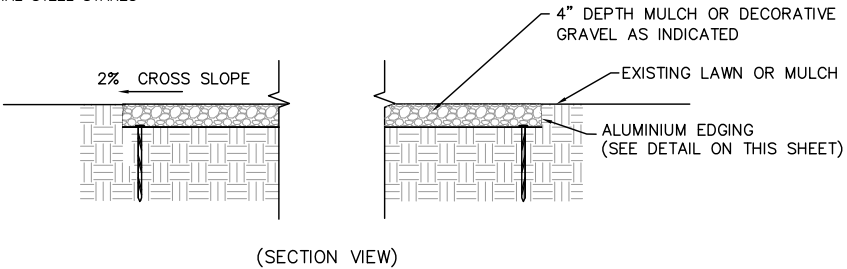
DECORATIVE BOULDER PLANTING – DETAIL
NO SCALE

- OVERSIZE DECORATIVE BOULDER NOTES:
1. SET FRACTURED OR SOILED SIDE OF ROCK INTO EARTH AT A DEPTH OF 1/3 THE HEIGHT OF THE BOULDER.
 2. WHEN BACKFILLING HAUNCH SOIL AROUND OVERSIZE BOULDER IN 6" LIFTS AND COMPACT UNTIL FINISH GRADE IS MET.
 3. SELECT OVERSIZE DECORATIVE BOULDERS THAT SHALL AVERAGE AT LEAST 5' TALL ABOVE FINISHED GRADE WHEN BURIED BY 30" WIDE IN SIZE WHEN MEASURED IN THE SMALLEST DIMENSION.



OVERSIZED DECORATIVE BOULDER PLANTING – DETAIL
NO SCALE

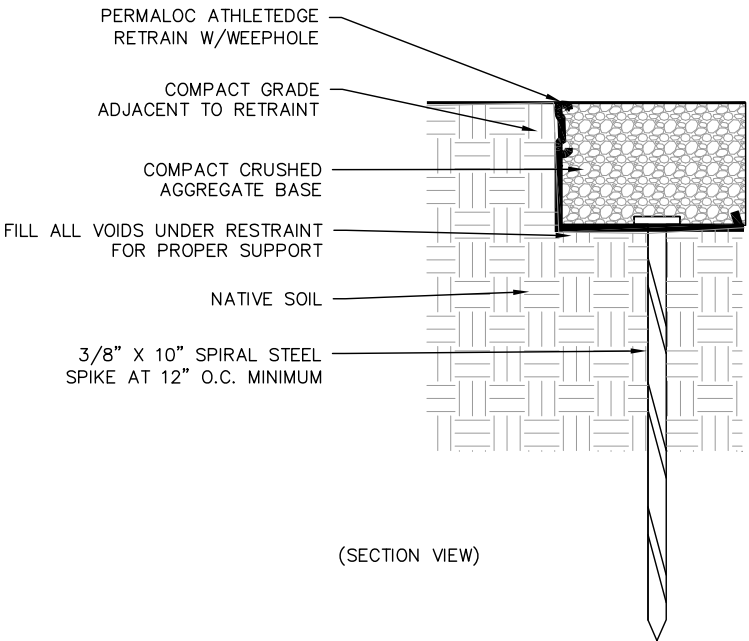
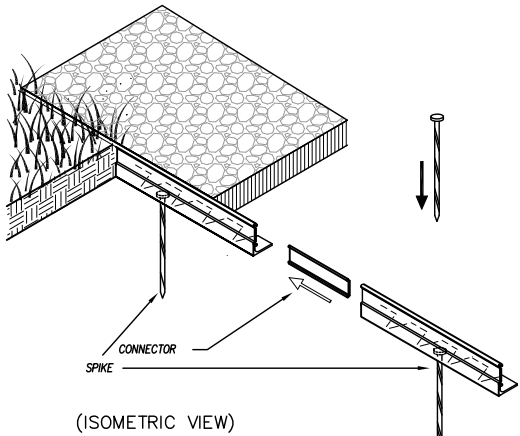
- NOTES:
1. 3/8" MINUS CRUSHER FINES TO HAVE PROPER MOISTURE CONTENT FOR COMPACTING TO THE SPECIFIED DENSITY.
 2. CRUSHER FINES TO BE COMPACTED WITH VIBRATOR.
 3. PERMALOC ATHLETEDGE SPORTS SURFACE RESTRAINT MANUFACTURER PROVIDED 10" SPIRAL STEEL STAKES OR APPROVED EQUAL.



- INSTALLATION PER MANUFACTURER'S "INSTALLATION GUIDELINES"
1. 8'-0" (2.44 M) SECTIONS CONNECTED WITH 4" (102 MM) SLIDING CONNECTOR.
 2. MAINTAIN 3/8" (9.5 MM) GAP BETWEEN SECTIONS TO ALLOW FOR PRODUCT EXPANSION IN EXTREME TEMPERATURES.
 3. CORNERS: NOTCH BASE ONLY AND FORM A CONTINUOUS CORNER.
 4. PERMALOC ATHLETEDGE AS MANUFACTURED BY PERMALOC CORPORATION, HOLLAND MI. (800) 356-9660, (616) 399-9600 WWW.PERMALOC.COM OR APPROVED EQUAL

SIZE: 8' LENGTHS (2.44 M) LENGTHS w/ 0.210" (5.33 MM) THICK EXPOSED TOP LIP 4" X 3" (102 MM X 76 MM)

FINISH: BLACK DURAFLEX-ELECTROSTATICALLY APPLIED BAKED ON PAINT MEET AAMA 2603



STEEL EDGING – DETAIL
NO SCALE



United States Department of Agriculture
Forest Service

(R04)
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Fred

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER
DISTRICT
ADDITION

ASHLEY NATIONAL
FOREST

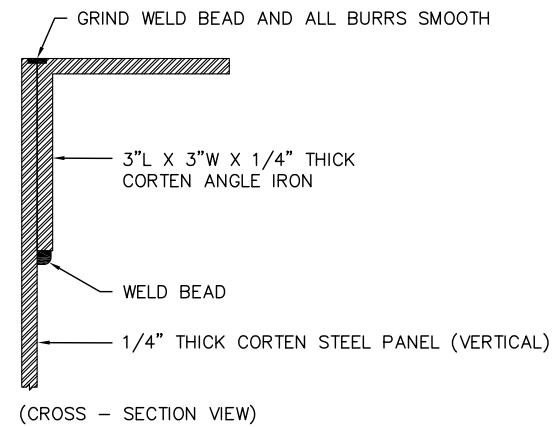
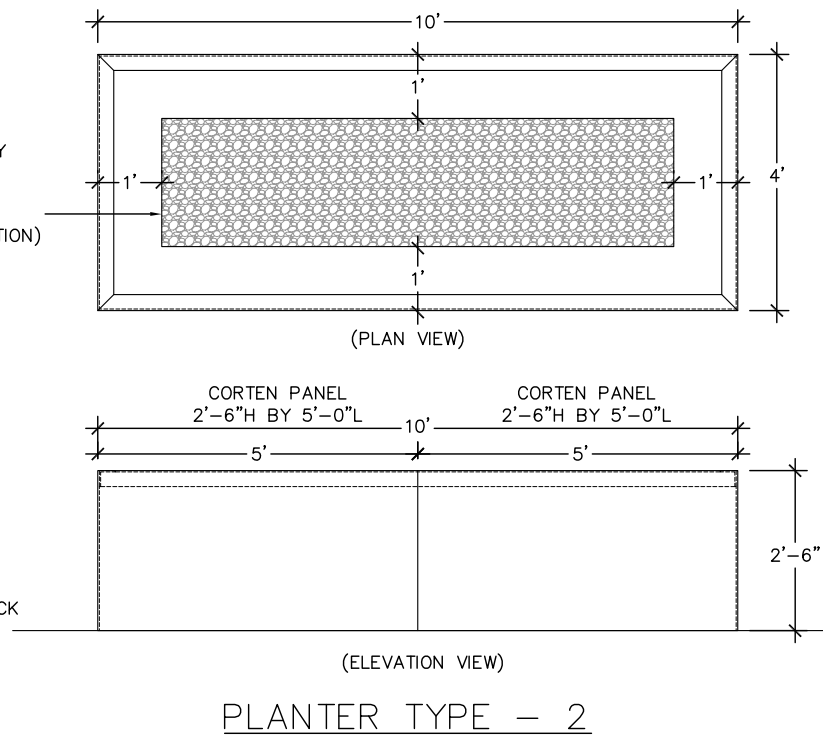
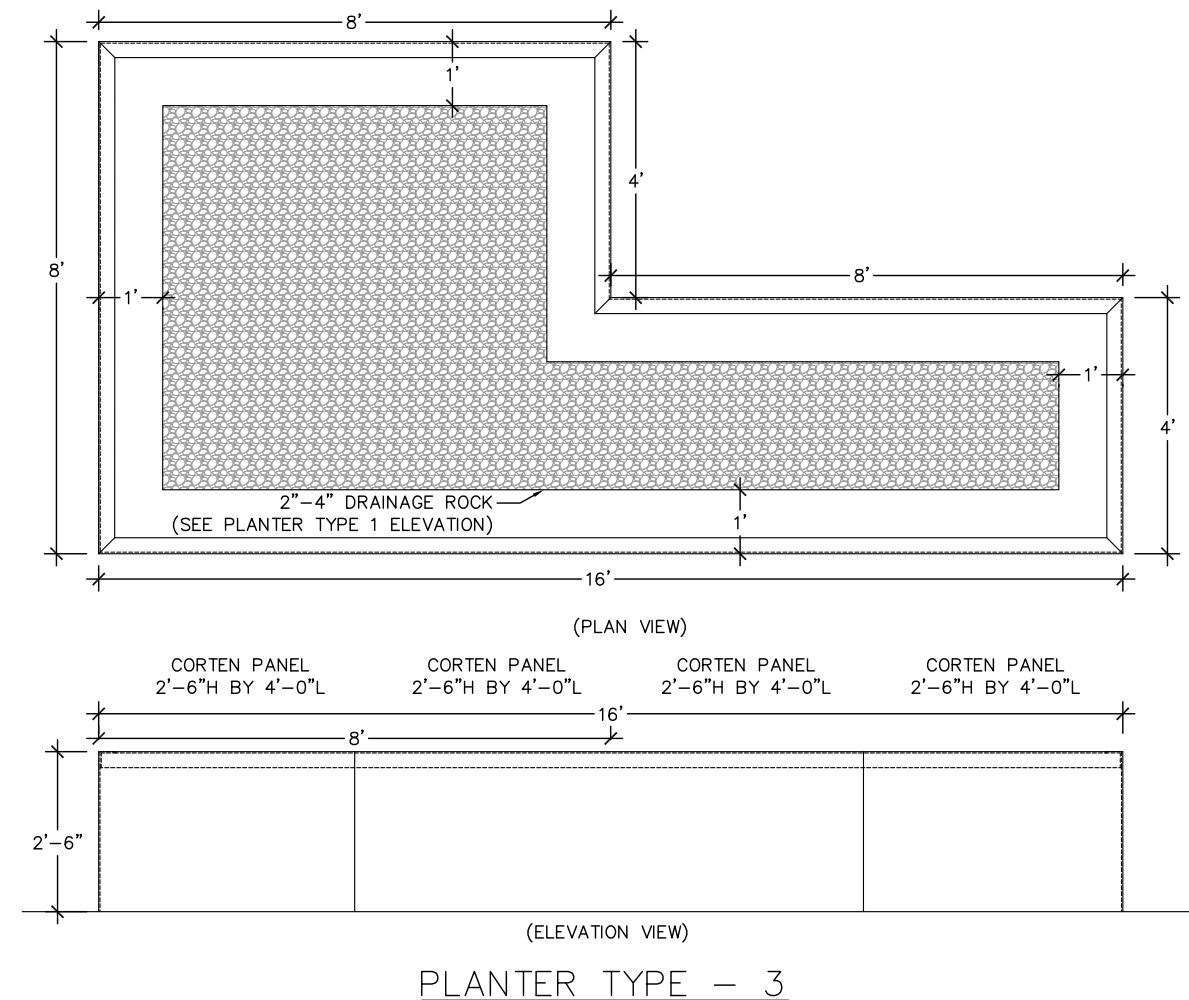
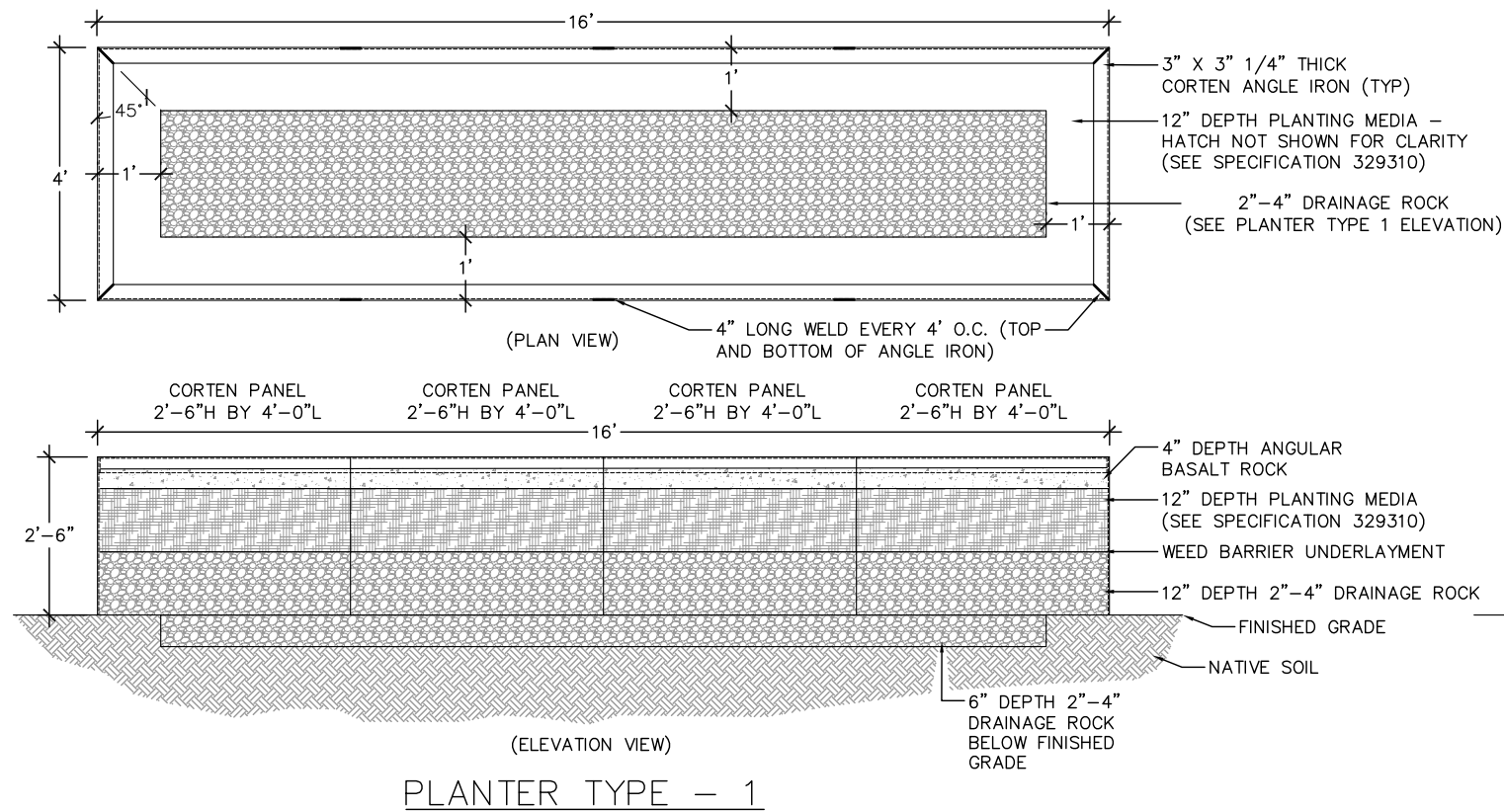
FLAMING GORGE DISTRICT

DRAWING TITLE

BOULDERS, EDGING AND
DECORATIVE GRAVEL
DETAILS

DATE 03/02/2018	ARCHIVE NO.
DESIGNER R.BUDGE	DRAWING SHEET NO. LD02
DRAWN R.BUDGE	
CHECKED D.JEPPSEN	
PROJECT NO.	SHEET 19 OF 119

11/16/18 13:22 RYAN BUDGE X:\ASHLEY\FLAMING GORGE RANGER DISTRICT ADDITION\2017\DWG\LD03\WTHR_STEEL_PLANTER_DETAILS.DWG



TOP EDGE, ANGLE IRON WELD – DETAIL

WEATHERED STEEL PLANTER – DETAILS

NO SCALE



United States Department of Agriculture
Forest Service

(R04)
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Fred

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER
DISTRICT
ADDITION

ASHLEY NATIONAL
FOREST
















FLAMING GORGE DISTRICT

DRAWING TITLE

WEATHERED STEEL
PLANTER DETAILS

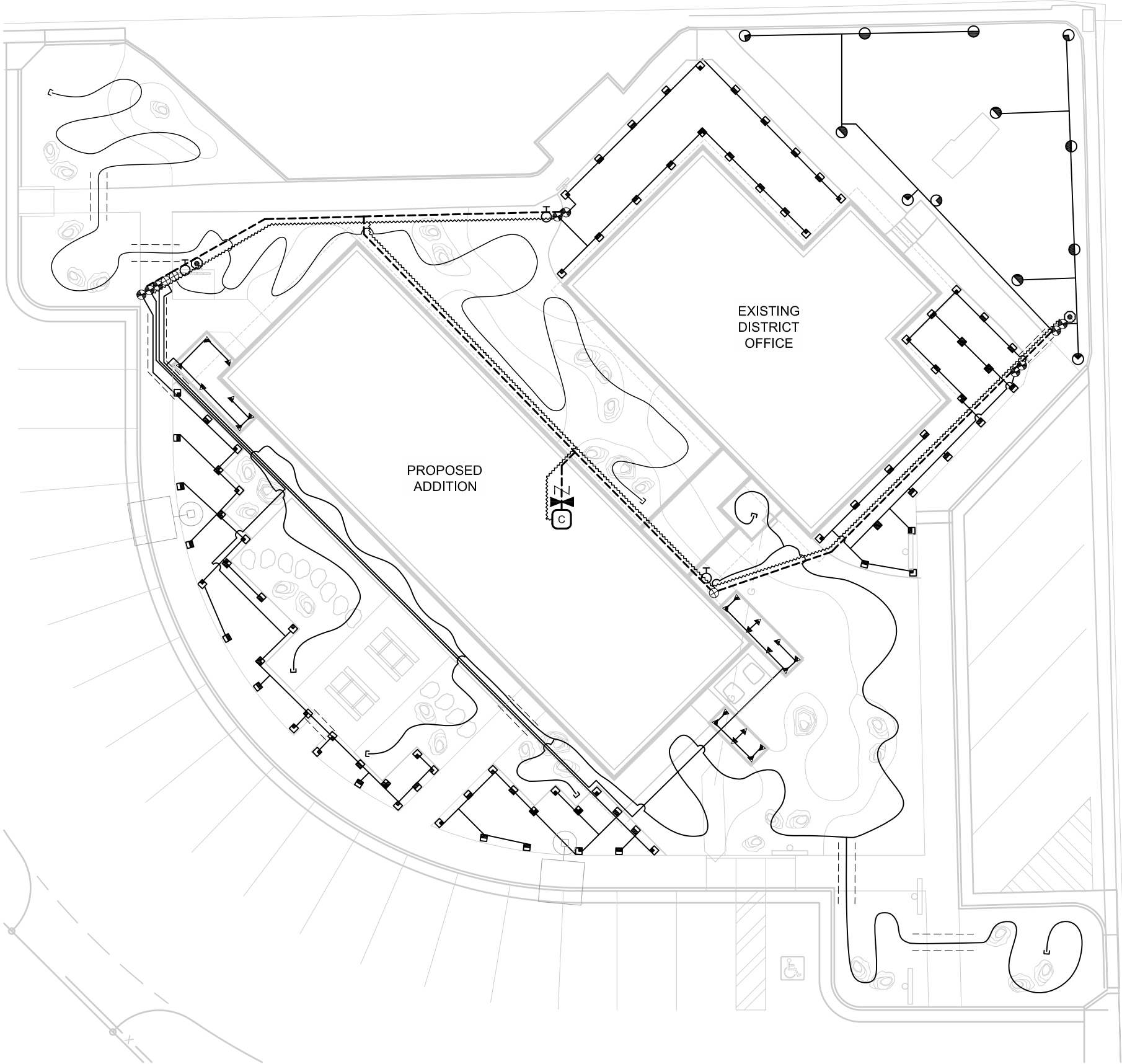
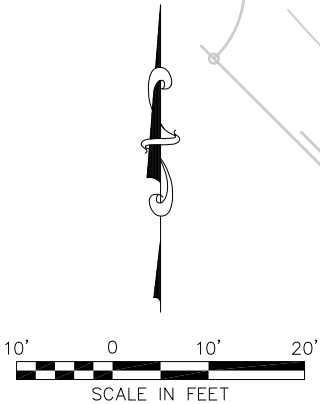
DATE 03/02/2018	ARCHIVE NO.
DESIGNER R.BUDGE	DRAWING SHEET NO. LD03
DRAWN R.BUDGE	
CHECKED D.JEPPSEN	
PROJECT NO.	SHEET 20 OF 119

LEGEND

-  BACKFLOW PREVENTER
-  1" POINT OF CONNECTION (P.O.C.)
-  1" ELECTRIC DRIP VALVE
-  1" ELECTRIC TURF VALVE
-  1804 POPUP SPRINKLER (NOZZLE 5'-8" MPR, SEE PLAN)
-  I-20 POPUP ROTOR (NOZZLE 18'-22', SEE PLAN)
-  1804 POPUP SPRINKLER (NOZZLE XERI PC 4'X4' SQUARE)
-  3/4" HOSE BIB ON 18" RISER
-  1" ISOLATION VALVE
-  1" MAINLINE (PVC SCHED. 40)
-  1" LATERAL LINE (PVC CLASS 200)
-  FLEX PIPE DRIP TUBING (1/2" POLYETHYLENE) WITH FLUSH VALVE
-  3" SLEEVE (PVC)
-  CONTROLLER WIRE (14-STRAND)
-  CONTROLLER (12-STATION)

IRRIGATION NOTES:

1. SEE SHEETS IRD01 & IRD02 FOR IRRIGATION SYSTEM DETAILS.
2. SEE SPECIFICATION 328000 FOR REQUIREMENTS.
3. THE IRRIGATION SYSTEM IS DESIGNED TO OPERATE AT 30 PSI WITH A FLOW RATE OF 18 GPM. IF THESE CONDITIONS DO NOT EXIST NOTIFY THE CONTRACTING OFFICER IMMEDIATELY.
4. ALL SPRINKLER IRRIGATION PRODUCTS AND MATERIALS SHALL BE MANUFACTURED BY RAIN BIRD CORPORATION OR AN APPROVED EQUAL.
5. ALL MAIN LINES ARE TO BE 1" PVC SCHEDULE 40 PIPE AND ALL LATERAL LINES ARE TO BE 1" PVC CLASS 200 PIPE. AVOID SEWER LINES, UTILITY LINES, COMMUNICATION LINES AND TOWER WHEN INSTALLING IRRIGATION MAINLINES AND LATERAL LINES.
6. INSTALL NEW CONTROLLER, WIRE, PIPE, HOSE BIBS, VALVES, VALVE BOXES, MANIFOLDS FOR NEW VALVES, FITTINGS, ISOLATION VALVES, EMISSION DEVICES, DRAINS, CONNECTIONS, AND ALL OTHER COMPONENTS NEEDED FOR A COMPLETE IRRIGATION SYSTEM.
7. THE IRRIGATION SYSTEM SHALL BE CONNECTED TO A BACKFLOW PREVENTER THAT MEETS OR EXCEEDS APPLICABLE STATE REGULATIONS. THE BACKFLOW PREVENTER SHALL BE INSTALLED IN THE BUILDING'S MECHANICAL ROOM.
8. A 1-INCH COPPER PIPE TAP WILL BE PROVIDED IN THE BUILDING'S MECHANICAL ROOM FOR THE IRRIGATION SYSTEM POINT OF CONNECTION.
9. THIS DRAWING IS SCHEMATIC. ACTUAL INSTALLATION MAY VARY FROM THE DRAWING TO MEET ACTUAL SITE CONDITIONS AS APPROVED BY THE CONTRACTING OFFICER. DO NOT PLACE ANY VALVES, DRAINS, BOXES OR CANS IN ANY HARDSCAPE OR ASPHALT SURFACES.
10. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH AN AS-BUILT DRAWING OF THE INSTALLED IRRIGATION SYSTEM ALONG WITH ANY SPRINKLER ADJUSTMENT KEYS, MANUALS AND OTHER ITEMS NEEDED TO MAINTAIN AND OPERATE THE SYSTEM.
11. MAINLINE SHALL HAVE A STOP & WASTE VALVE INSTALLED AT THE END LINE AT THE LOWEST POINT IN IT'S OWN VALVE BOX.
12. INSTALL AUTO DRAINS IN ALL LATERAL LINE PIPING AT ALL LOW SPOTS.
13. COORDINATE IRRIGATION SLEEVE INSTALLATION TO OCCUR PRIOR TO HARDSCAPE INSTALLATION.



United States Department of Agriculture
Forest Service

(R04)
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Freed

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER
DISTRICT
ADDITION

ASHLEY NATIONAL
FOREST

FLAMING GORGE DISTRICT

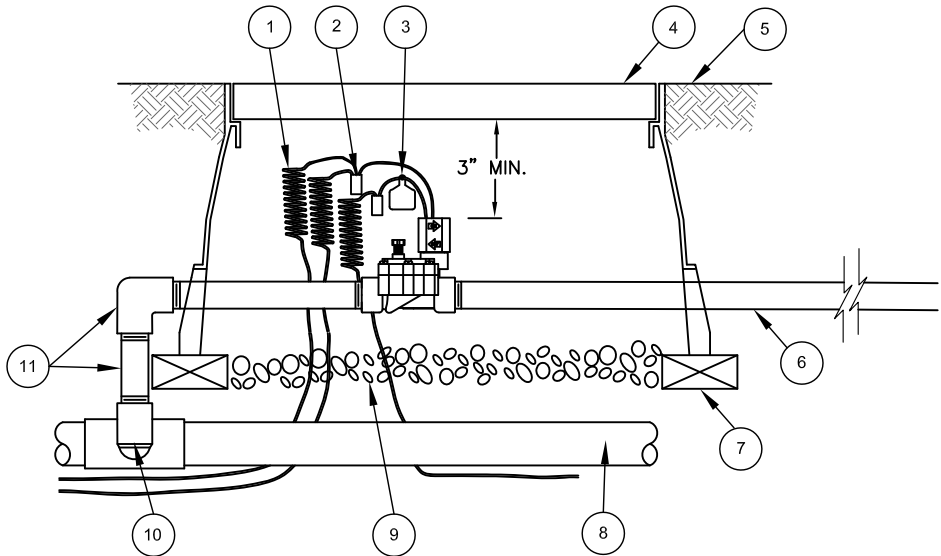
DRAWING TITLE

IRRIGATION PLAN

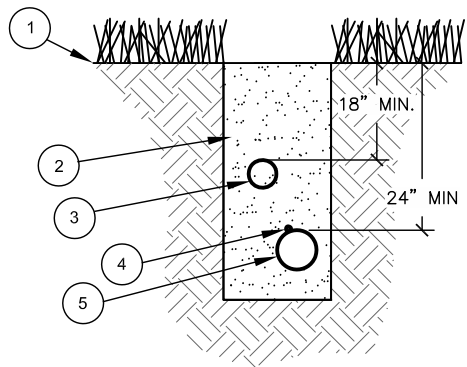
DATE XX/XX/XXXX	ARCHIVE NO.
DESIGNER R. BUDGE	DRAWING SHEET NO. IR01
DRAWN R. BUDGE	
CHECKED D. JEPSEN	
PROJECT NO.	SHEET 21 OF 119

11/16/18 15:02 RYAN BUDGE X:\ASHLEY\FLAMING GORGE RANGER DISTRICT ADDITION\2017\DWG\IRD2\IRD2_IRRIGATION DETAILS.DWG

- 1 30" LINEAR LENGTH OF WIRE, COILED
- 2 WATERPROOF CONNECTION (TYP)
- 3 ID TAG (ZONE/STATION #)
- 4 VALVE BOX WITH COVER
- 5 FINISH GRADE
- 6 1" PVC LATERAL PIPE (CLASS 200)
- 7 BRICK (1 OF 4)
- 8 1" PVC MAINLINE PIPE (SCH 40)
- 9 3" MINIMUM DEPTH OF 3/4" WASHED GRAVEL
- 10 PVC SCH 40 ELL
- 11 SCH 80 NIPPLE (2" LENGTH, HIDDEN) AND SCH 40 ELL



ELECTRIC VALVE MANIFOLD DETAIL (NO SCALE)

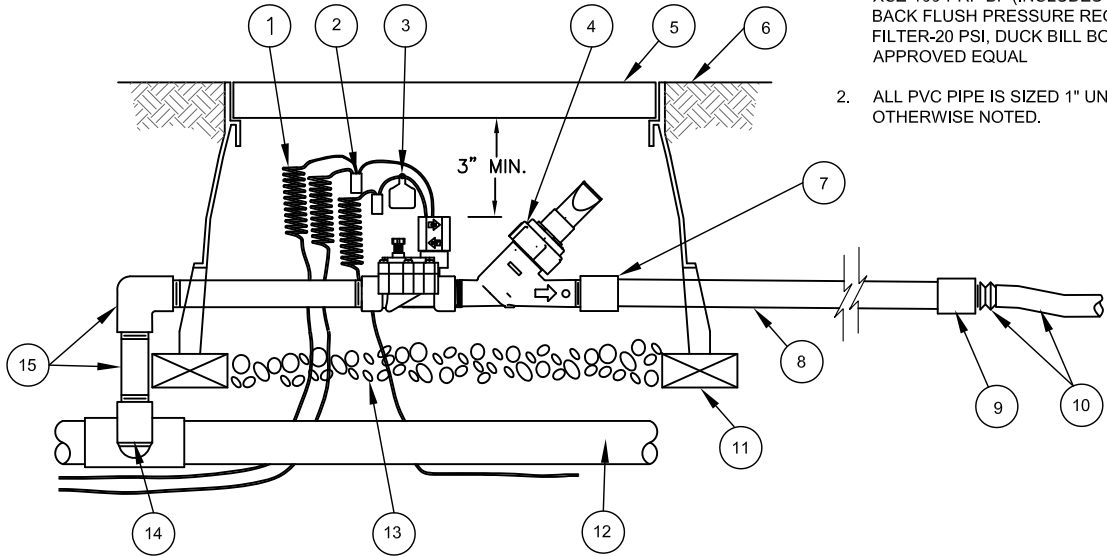


PVC SCH PIPE INSTALLATION DETAIL (NO SCALE)

NOTE:
1. BURY CONTROLLER WIRE FASTENED TO SCHEDULE 40 MAINLINE WITH THREE WRAPS ELECTRICAL TAPE EVERY 10-FEET.

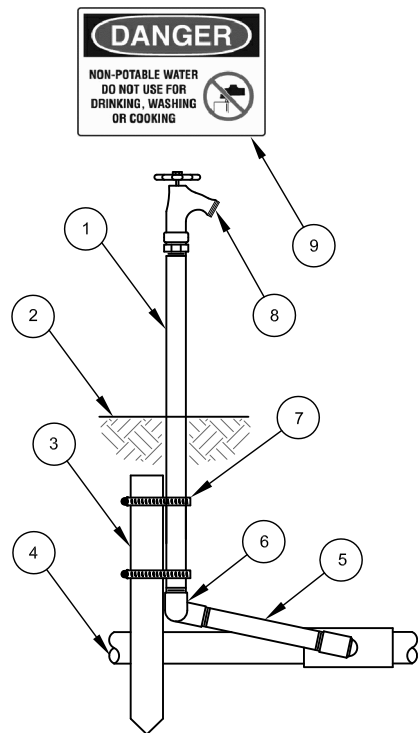
- 1 FINISH GRADE
- 2 CLEAN BACKFILL, HAUNCH AROUND PIPE AND COMPACT IN LIFTS
- 3 PVC LATERAL LINE PIPE (CLASS 200)
- 4 CONTROLLER WIRE BUNDLE
- 5 PVC MAINLINE PIPE (SCH 40)

- 1 30" LINEAR LENGTH OF WIRE, COILED
- 2 WATERPROOF CONNECTION (TYP)
- 3 ID TAG (ZONE/STATION #)
- 4 REMOTE CONTROL VALVE ASSEMBLY (SEE NOTE)
- 5 VALVE BOX WITH COVER
- 6 FINISH GRADE
- 7 PVC SCH 80 NIPPLE
- 8 PVC LATERAL PIPE (CLASS 200)
- 9 PVC SCH 40 COUPLER 1" X 1/2" (BARB ADAPTER)
- 10 FLEX PIPE DRIP TUBING (1/2" DIA.) W/BARB OR PVC CLASS 200 PIPE (SEE SHEET I1)
- 11 BRICK (1 OF 4)
- 12 PVC MAINLINE PIPE (SCH 40)
- 13 3" MINIMUM DEPTH OF 3/4" WASHED GRAVEL
- 14 PVC SCH 40 ELL
- 15 SCH 80 NIPPLE (2" LENGTH, HIDDEN) AND SCH 40 ELL



ELECTRIC DRIP VALVE MANIFOLD WITH PRESSURE REDUCTION DETAIL (NO SCALE)

NOTE:
1. REMOTE CONTROL VALVE: RAIN BIRD XCZ-100-PRF-BF (INCLUDES DV-100 VALVE, BACK FLUSH PRESSURE REGULATING FILTER-20 PSI, DUCK BILL BOOT) OR APPROVED EQUAL
2. ALL PVC PIPE IS SIZED 1" UNLESS OTHERWISE NOTED.



HOSE BIB INSTALLATION DETAIL (NO SCALE)

- 1 3/4" GALVANIZED STEEL RISER (18" ABOVE FINISHED GRADE)
- 2 FINISH GRADE
- 3 2" X 2" X 12" REDWOOD STAKE
- 4 PVC MAINLINE PIPE (SCH. 40)
- 5 3/4" PVC SCH. 80 NIPPLE (LENGTH AS REQ.)
- 6 3/4" PVC SCH. 80 STREET ELL
- 7 ADJUSTABLE TIE STRAP
- 8 3/4" VALVE (BRASS)
- 9 PER OSHA 1926.51(b)(1) ATTACH NON-POTABLE WATER SIGN TO ANY HOSE BIB CONNECTED TO IRRIGATION SYSTEM.



United States Department of Agriculture
Forest Service

(R04)
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Fred

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER
DISTRICT
ADDITION

ASHLEY NATIONAL
FOREST

FLAMING GORGE DISTRICT

DRAWING TITLE

IRRIGATION DETAILS

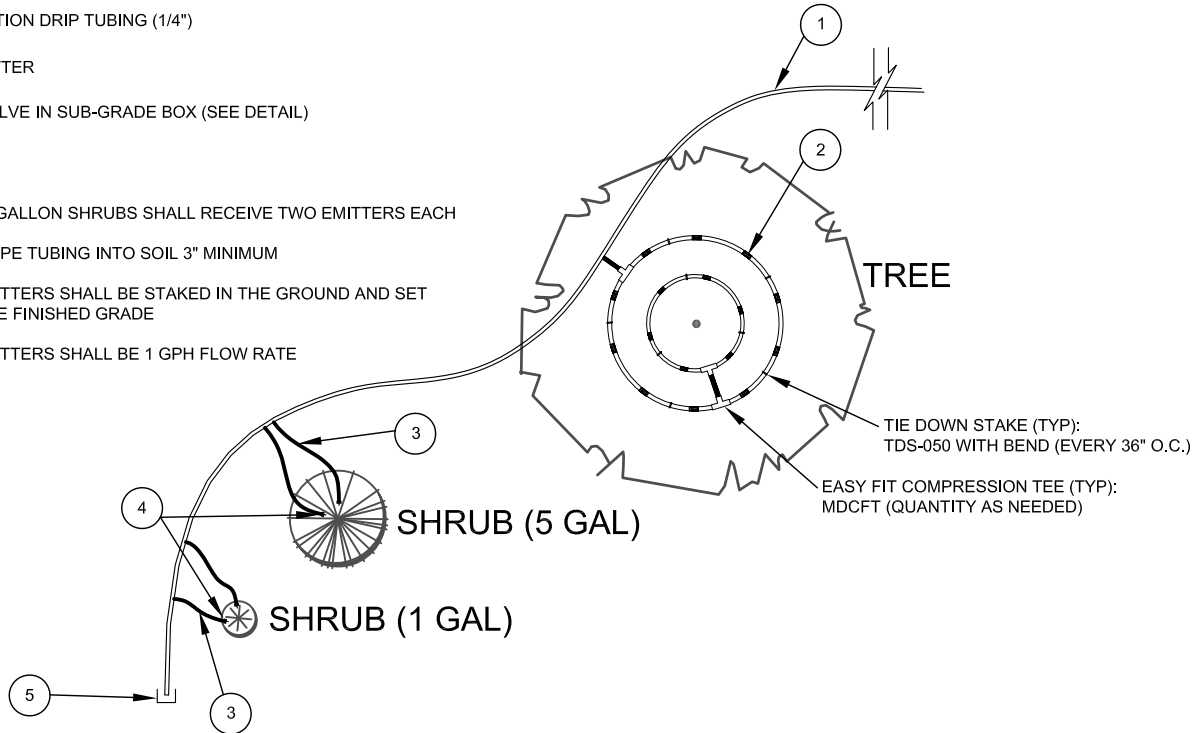
DATE 03/02/2018	ARCHIVE NO.
DESIGNER R.BUDGE	DRAWING SHEET NO. IRD01
DRAWN R.BUDGE	
CHECKED D.JEPPSEN	
PROJECT NO.	SHEET 22 OF 119

11/16/18 15:02 RYAN BUDGE X:\ASHLEY\FLAMINGGORGERANGERDISTRICT.ADDITION\2017DWG\IRD2_IRD2_01.001.001.001.DWG

- 1 FLEX PIPE DRIP TUBING (1/2" DIA. POLYETHYLENE)
- 2 DRIPLINE TUBING (1/2" DIA.) WITH INLINE EMITTERS (EMITTERS 24" O.C.)
- 3 DISTRIBUTION DRIP TUBING (1/4")
- 4 DRIP EMITTER
- 5 FLUSH VALVE IN SUB-GRADE BOX (SEE DETAIL)

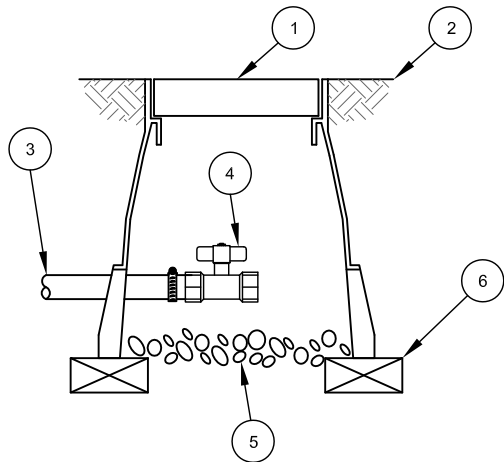
NOTES:

- 1. ALL 5 AND 1 GALLON SHRUBS SHALL RECEIVE TWO EMITTERS EACH
- 2. HEEL FLEX PIPE TUBING INTO SOIL 3" MINIMUM
- 3. ALL DRIP EMITTERS SHALL BE STAKED IN THE GROUND AND SET 1-INCH ABOVE FINISHED GRADE
- 4. ALL DRIP EMITTERS SHALL BE 1 GPH FLOW RATE



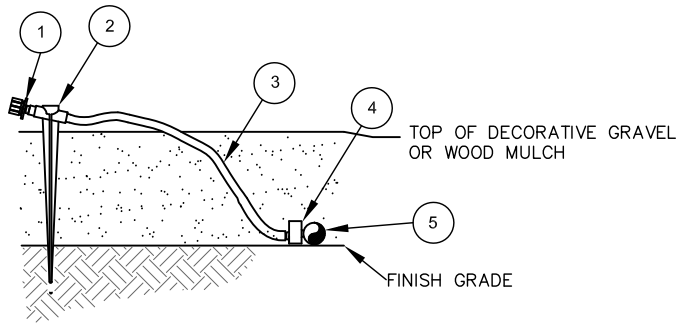
FLEX PIPE DRIP TUBING, DISTRIBUTION DRIP TUBING AND DRIP EMITTER LAYOUT DETAIL (NO SCALE)

- 1 VALVE BOX WITH COVER
- 2 FINISH GRADE
- 3 FLEX PIPE DRIP TUBING (1/2" DIA.)
- 4 1/2" STOP / WASTE, BALL VALVE WITH CLASP
- 5 3.0-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
- 6 BRICK (1 OF 4)



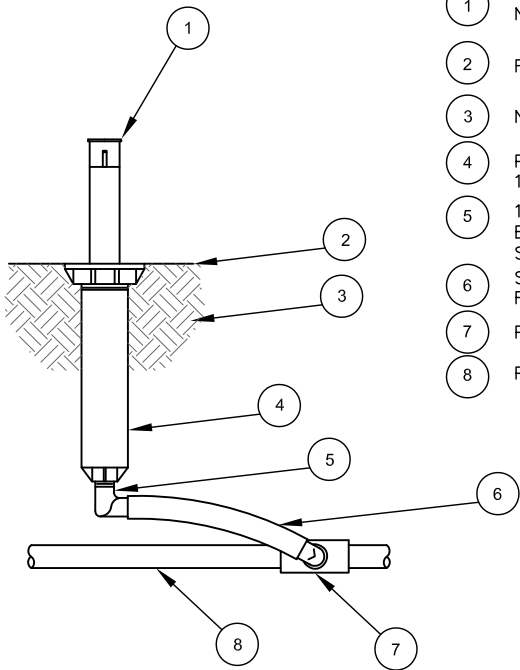
FLUSH VALVE DETAIL (NO SCALE)

- 1 RAIN BIRD XERI-SPRAY OR DRIP EMITTER (SEE SHEET IR01 TO DETERMINE)
- 2 1/4" TUBING STAKE: TS-025
- 3 1/4" VINYL DISTRIBUTION DRIP TUBING: PT-025
- 4 INSERT FITTING: 1/4" BARB CONNECTOR: SPB-025
- 5 FLEX PIPE DRIP TUBING (1/2" DIA. POLYETHYLENE)



EMITTER DETAIL (NO SCALE)

- 1 RAIN BIRD 1800 12-FOOT RADIUS MPR NOZZLE (SEE SHEET IR01 TO DETERMINE)
- 2 FINISHED GRADE
- 3 NATIVE SOIL
- 4 POP-UP SPRAY SPRINKLER: RAINBIRD 1800 SERIES
- 5 1/2-INCH MALE MPT X 1/2-INCH BARB ELBOW: RAINBIRD MODEL SBE-050 (1 OF 2)
- 6 SWING PIPE, 12-INCH LENGTH: RAINBIRD MODEL SP-100
- 7 PVC SCH 40 TEE OR ELL
- 8 PVC CLASS 200 LATERAL PIPE



1800 SERIES POP-UP SPRINKLER WITH NOZZLE DETAIL (NO SCALE)



United States Department of Agriculture
Forest Service

(R04)
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Fred

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER
DISTRICT
ADDITION

ASHLEY NATIONAL
FOREST

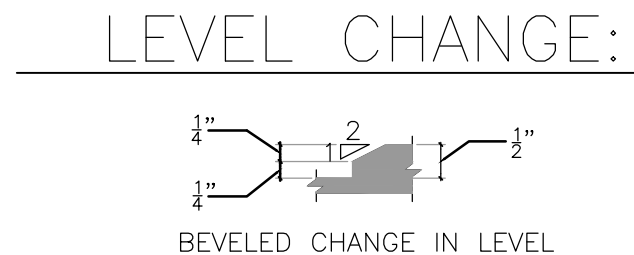
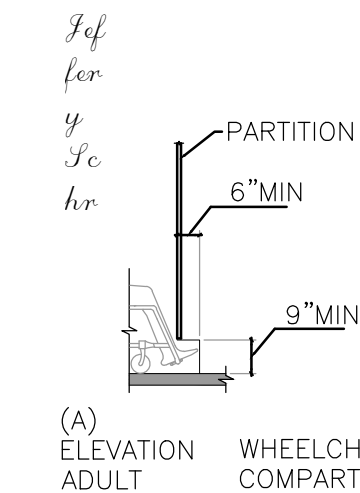
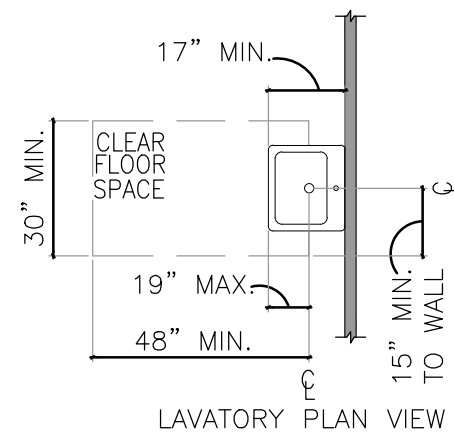
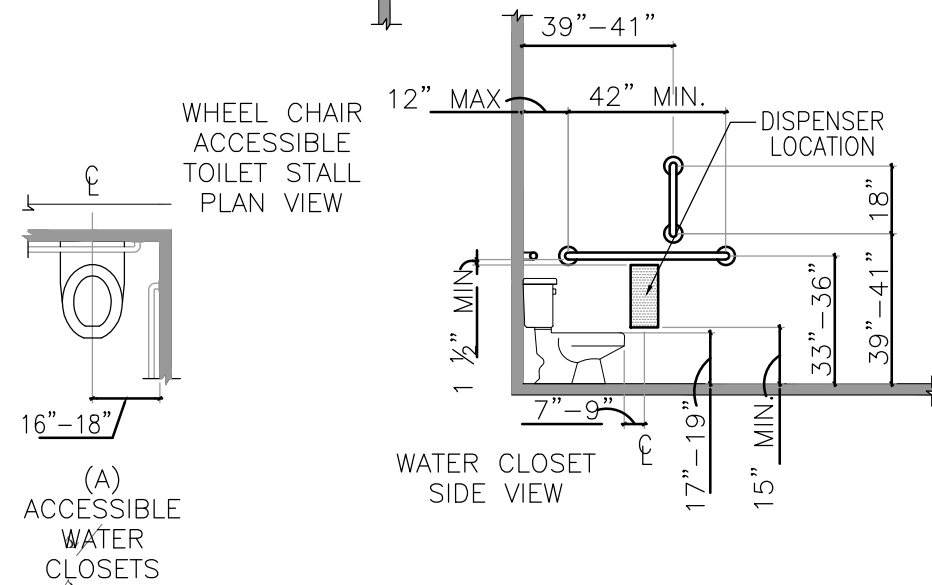
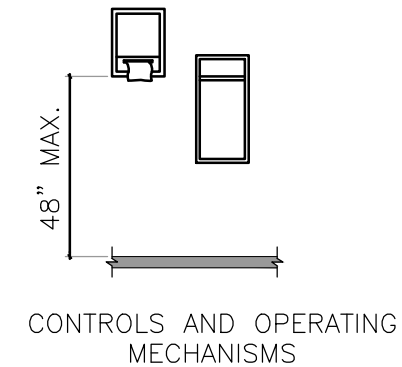
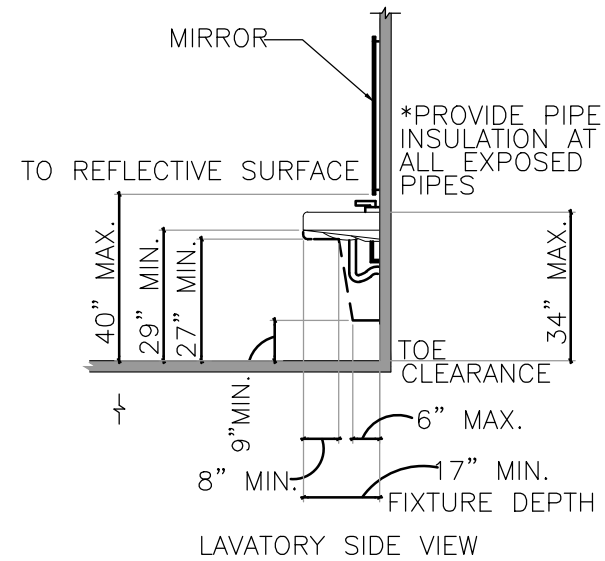
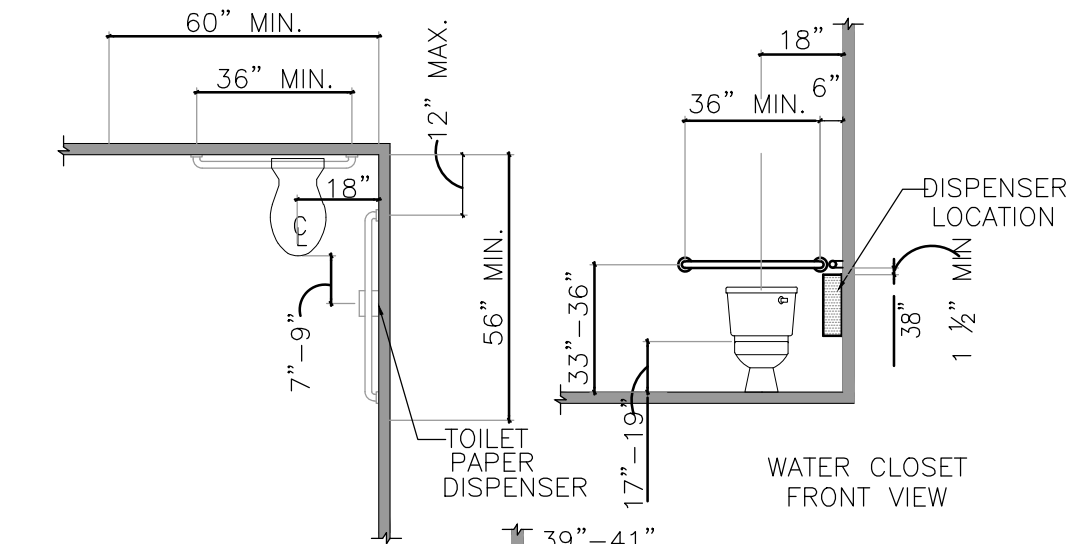
FLAMING GORGE DISTRICT

DRAWING TITLE

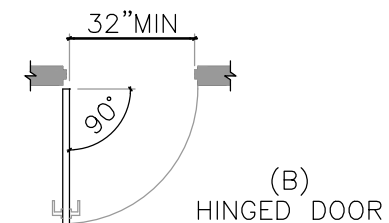
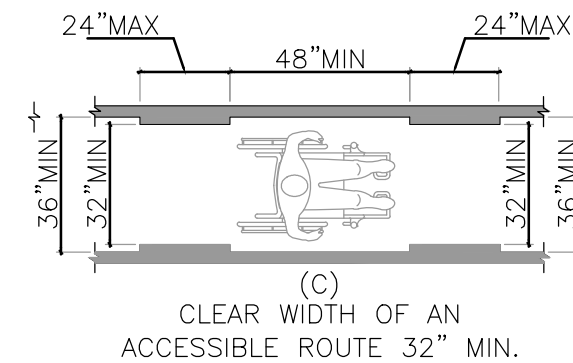
IRRIGATION DETAILS
CONT'D.

DATE 03/02/2018	ARCHIVE NO.
DESIGNER R.BUDGE	DRAWING SHEET NO. IRD02
DRAWN R.BUDGE	
CHECKED D.JEPPSEN	
PROJECT NO.	SHEET 23 OF 119

TOILET COMPARTMENT CLEARANCES: LAVATORY & ACCESSORY CLEARANCES



DOOR AND DOORWAY CLEARANCE REQUIREMENTS:



United States Department of Agriculture
Forest Service

R04
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Fred

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

**FLAMING GORGE
RANGER
DISTRICT OFFICE
ADDITION**

**ASHLEY NATIONAL
FOREST**

FLAMING GORGE RANGER
DISTRICT

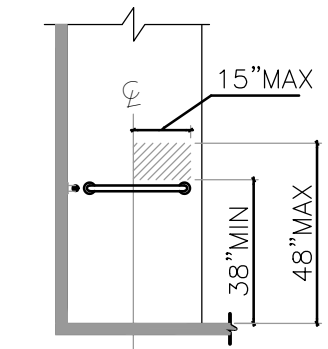
DRAWING TITLE

ACCESSIBILITY STANDARDS

DATE 11/16/2018	ARCHIVE NO.	
DESIGNER SMHW	DRAWING SHEET NO.	
DRAWN SMHW	GA1.01	
CHECKED D JEPPESEN		
PROJECT NO.	SHEET 24 OF 119	

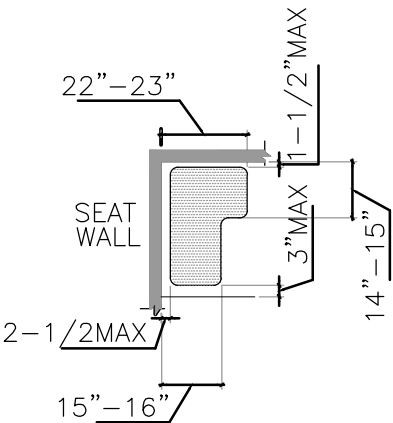
11/24/18 12:29 SHILLWORTHEN X:ASHLEY\FLAMINGGORGERANGERDISTRICT\ADDITON 2017\DWG\GA1.01.2.ACCESSIBILITY.DWG:

SHOWER CLEARANCES AND ACCESSORY HEIGHT REQUIREMENTS:

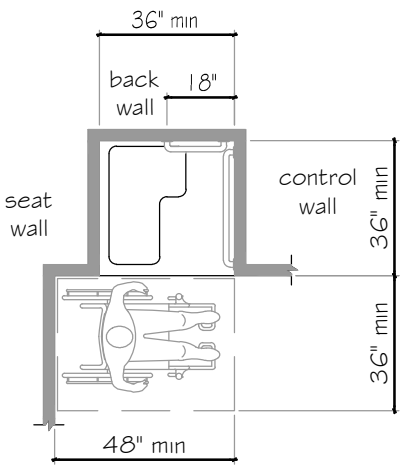


TRANSFER TYPE
SHOWER COMPARTMENT
CONTROL LOCATION

CONTROL
LOCATION



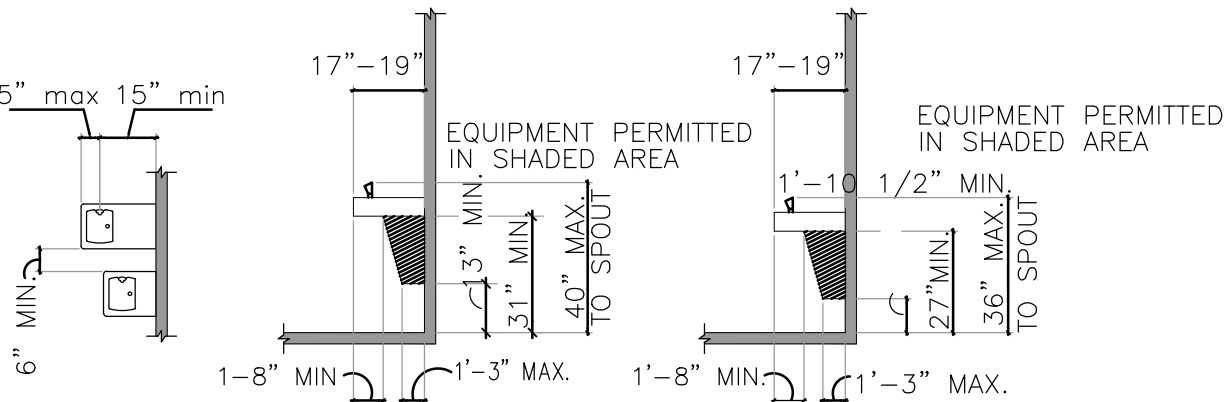
L-SHAPED
SHOWER SEATS



TRANSFER TYPE SHOWER COMPARTMENT
SIZE AND CLEARANCE W/ GRAB BARS

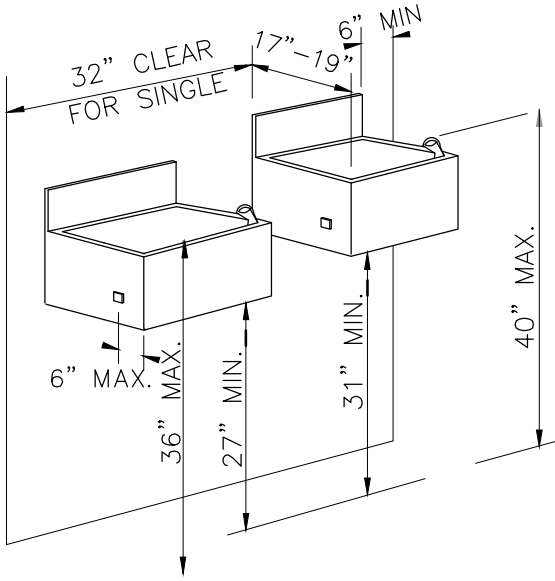
TRANSFER TYPE SHOWER CLEARANCES

ELECTRIC WATER COOLER REQUIREMENTS




PLAN VIEW NON ADA ELEVATIONS HEIGHTS ELEVATIONS HEIGHTS

DRINKING FOUNTAIN CLEARANCES



NOTE:
ILLUSTRATIONS SHOWN HERE ARE FOR
DIMENSIONAL ACCESSIBILITY PURPOSES ONLY.
A SECOND DRINKING FOUNTAIN SHOULD BE
PROVIDED AT A MOUNTING HEIGHT AND
CLEARANCES SHOWN.

FOUNTAINS



United States Department of Agriculture
Forest Service

R04
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS		
s/s Regina Fred		
11/29/18		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER
DISTRICT OFFICE
ADDITON

ASHLEY NATIONAL
FOREST

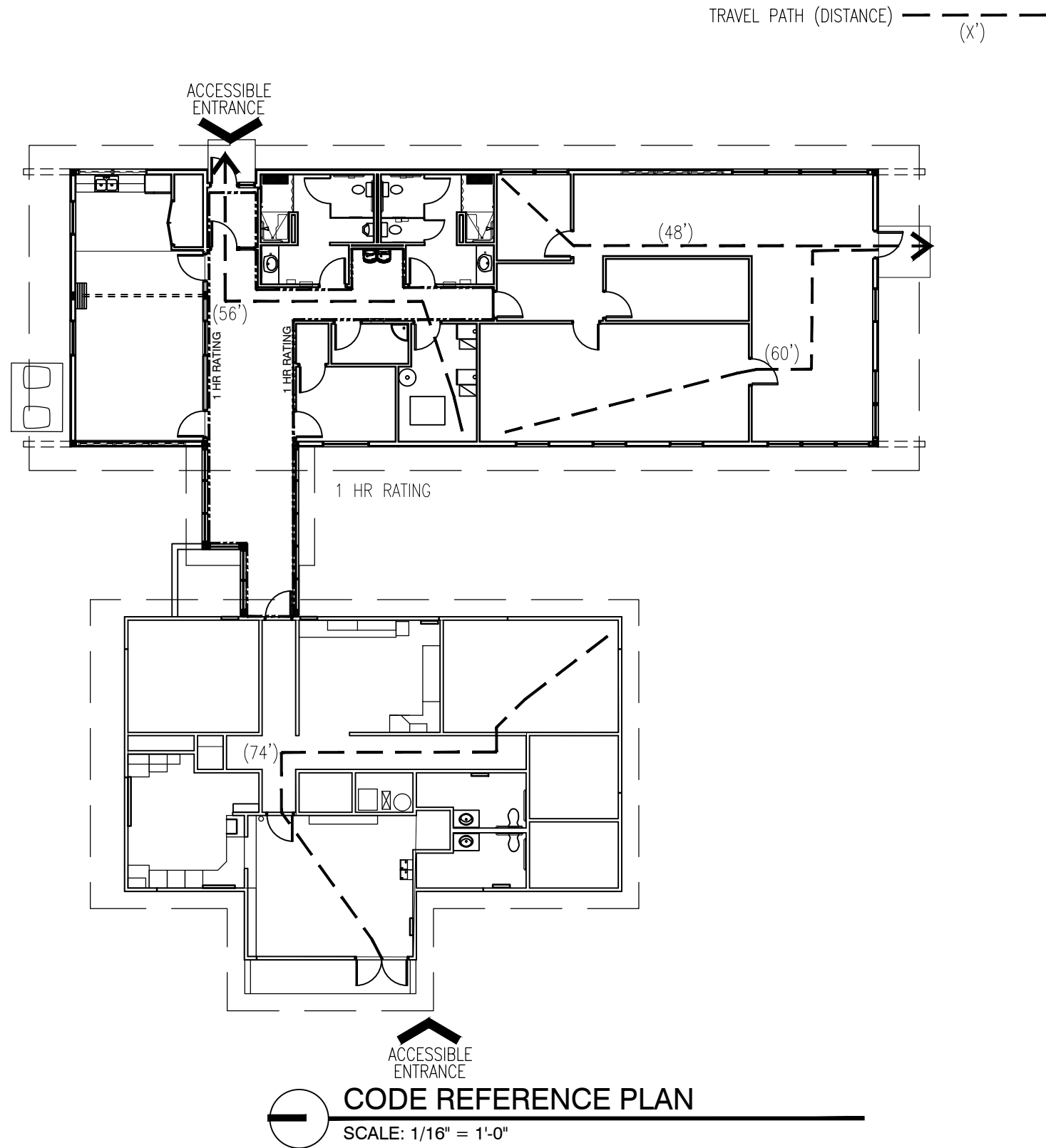
FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

ACCESSIBILITY
STANDARDS

DATE 11/16/2018	ARCHIVE NO.
DESIGNER SMHW	DRAWING SHEET NO. GA1.02
DRAWN SMHW	
CHECKED D JEPPSEN	
PROJECT NO.	SHEET 25 OF 119

11/24/18 12:31 SHILLWORTHEN X:ASHLEY\FLAMINGGORGERANGERDISTRICT ADDITION.2017DWG\644.G101.CODEANALYSIS.DWG;



ACCESSIBILITY

APPLICABLE CODES: IBC 2015, 2004 ADA/ABA Guidelines

CODE SUMMARY:

APPLICABLE CODES:

International Building Code	2015	National Electrical Code	2017
International Mechanical Code	2015	ANSI/ASHRAE/IESNA	
International Fuel Gas Code	2015	Standard 90.1-2010	2010
International Plumbing Code	2015	International Energy	
International Fire Code	2015	Conservation Code	2015

- Occupancies Group - IBC Chapter 3: B Mixed Occupancy: No
- Type of Construction - IBC TABLE 601: V-B 3. Occupancy Separation: N/A
- Sprinklers:
Required: NO Provided: NO Type of Sprinkler System: NA
- Seismic Design Category: C Design Wind Speed: 115 mph, exposure: C
Manila Ground Snow Load: 100 PSF Manila Frost Depth: 36 inches
Manila Elevation above sea level : 6348 ft
NOTE: See Structural Drawings for detailed Design Criteria
- Number of Stories: 1 Story Building Height: 13'-9"
- Actual Area per Floor: 3,491 + 2025 = 5516 GSF
Allowable Area per Floor: 9,000 GSF per IBC TABLE 506.2
*Area Modifications: Not needed
- Design Occupant Load: 59 (Actual Max Occupant Load, both structures)
- Exit Width Required (TABLE 1005.3.2): 12" (.2/occ.) Exit Width Provided: 132"
2 EXITS AT 36", 1 EXITS AT 60"
Minimum Corridor Width - Sec. 1020.2: 44" Min. Door Width - Sec. 1010.1.1 32"
Dead End Corridor - Sec. 1020.4: 20' max. Exit Separation -Sec. 1007.1.1: 1/2 *diag.
Number of Exits Required SEC 10007: 2 Provided: 3
- Plumbing Fixture Requirements (IBC TABLE 2902.1): 59 occ. = 28 male, 28 female
a) Water Closets - Required(m) 2 (f) 2 Provided (m) 3 (f) 3
b) Lavatories - Required (m) 2 (f) 2 Provided (m) 2 (f) 2
a) Bath Tubs or Showers: 2 provided
a) Drinking Fountains: 2 provided Service Sinks: 1 provided
- Fire Resistance Rating: VB construction
Requirements for the Exterior Walls based on the fire separation distance (in hours) -
IBC Chapter 6: North: 0 South: 0 East: 0 West: 0

Element	Hrs	Element	Hrs
Exterior Bearing Walls	0	Floors - Ceiling Floors	0
Interior Bearing Walls	0	Roofs - Ceiling Roofs	0
Exterior Non-Bearing Walls	0	Exterior Doors & Windows	0
Structural Frame	0	Corridor (Fire Partitions) -TABLE 1020.1	1
Partitions - Permanent	0	Corridor Doors - TABLE 716.5	1/3
		Corridor Windows - TABLE 716.5*	1/3
		*Max. Window Area < 25% of WALL	1/3

Interior Finishes Class (fire spread): A = Exit Enclosures / Passageways
Based on IBC TABLE 803.11 (for Non-sprinklered bldg., Type B Occupancy) B = Corridors
C = Rooms & Enclosed Spaces

Minimum Roof Covering Fire Classification - IBC TABLE 1505.1: C (Const. Type V-B)

* The addition has a code occupant load of 44. (21 people in 2,030 SF of office (100 SF/ person) and and 23 people in the 340 SF conference room (15 SF/ person). According to IBC Table 1020.1, the corridor requires a 1 hour fire rating.



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Fred

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION

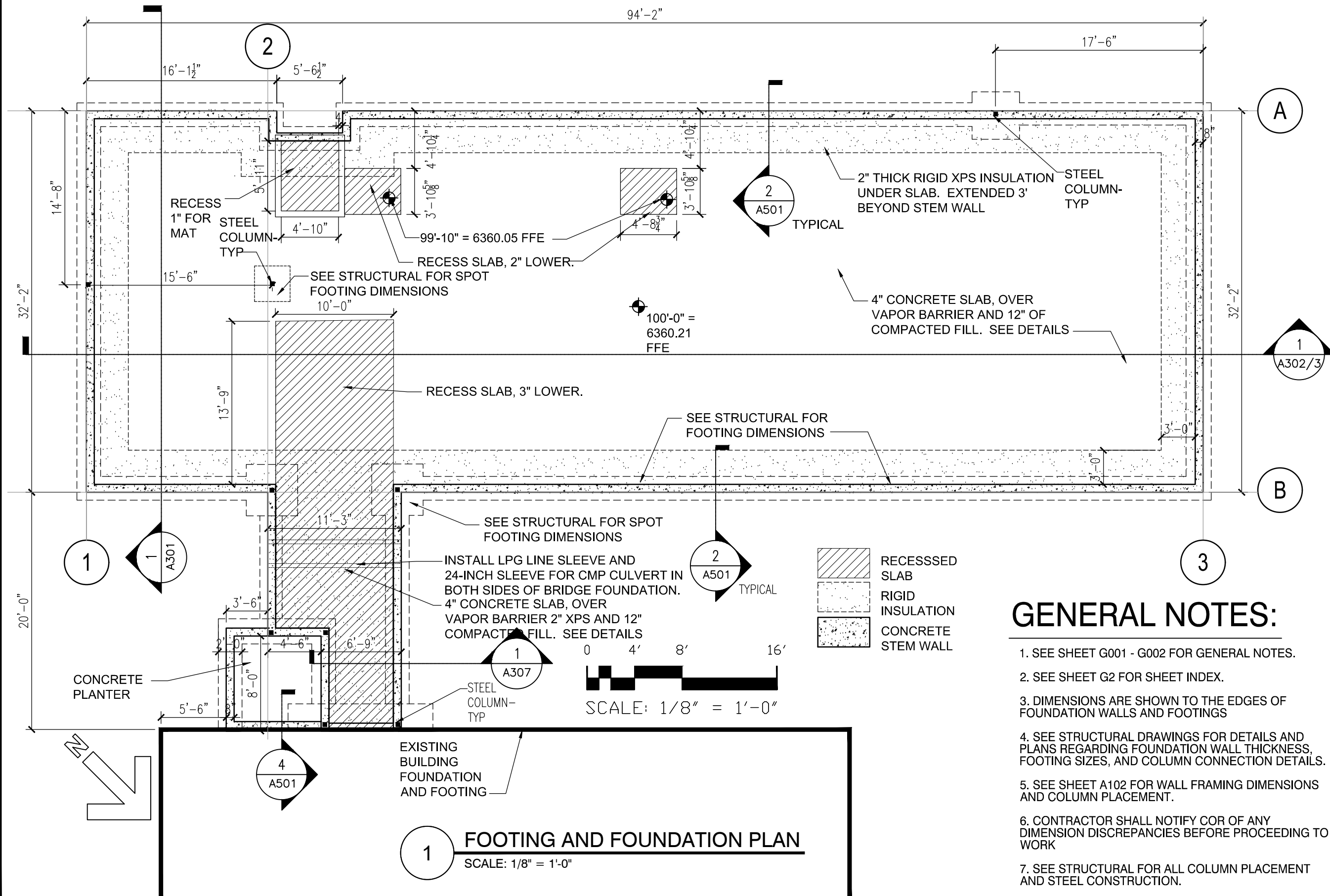
ASHLEY
NATIONAL FOREST

FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

CODE ANALYSIS

DATE 11/16/2018	ARCHIVE NO.
DESIGNER C. LEWIS	DRAWING SHEET NO. G101
DRAWN SMHW	
CHECKED D. JEPPESEN	
PROJECT NO. 644	SHEET 26 OF 119



United States Department of Agriculture
Forest Service

REGION 4

INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Freed

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE RANGER DISTRICT OFFICE ADDITION

**ASHLEY
NATIONAL FOREST**

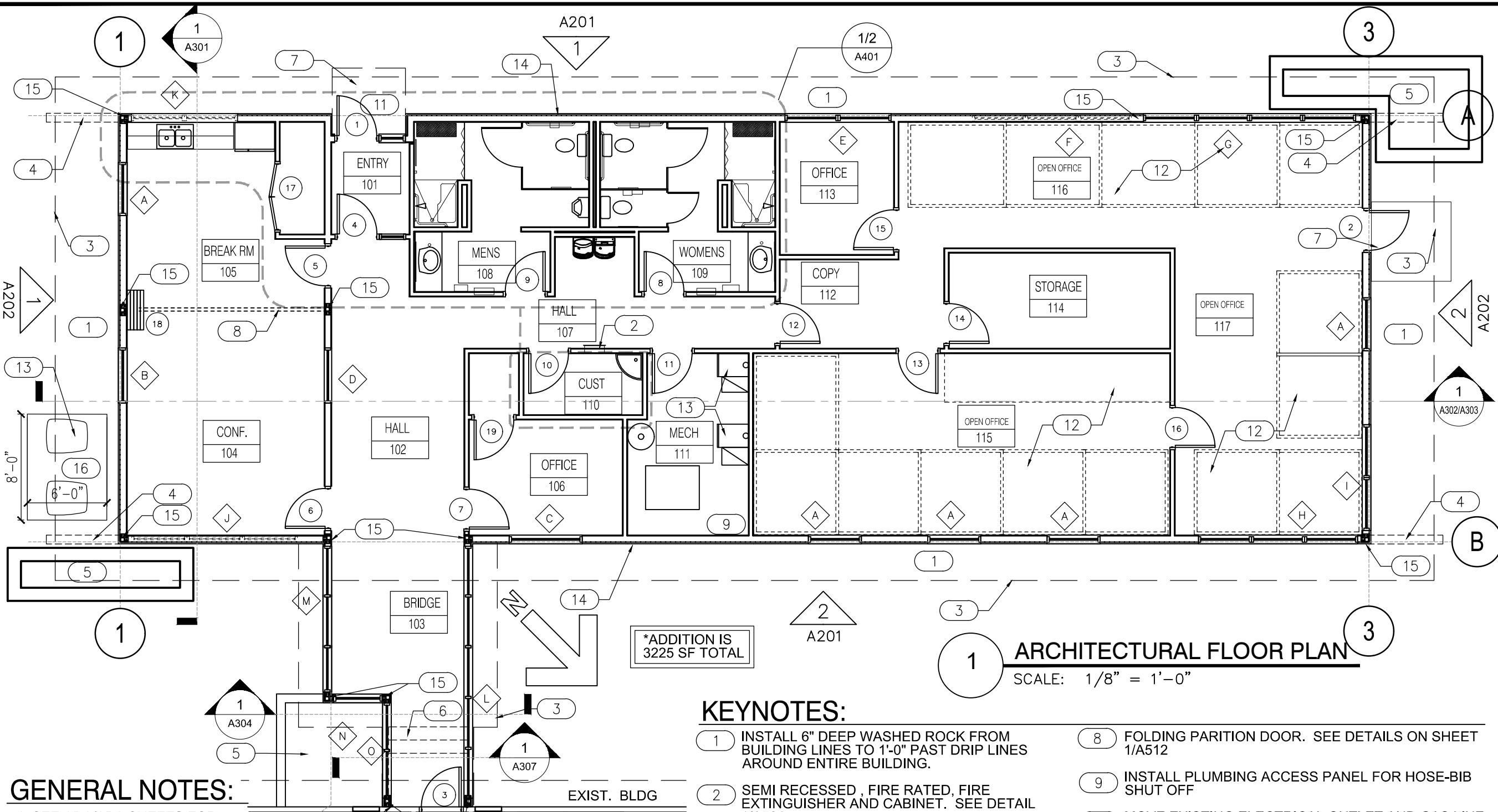
FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

FOOTING AND FOUNDATION PLAN

DATE 11/16/2018	ARCHIVE NO.	
DESIGNER C. LEWIS		DRAWING SHEET NO. A100
DRAWN SMHW		
CHECKED D. JEPPISEN		
PROJECT NO. 644		SHEET 27 OF 119

11/24/18 16:23 SHILLWORTHEN C:\USERS\SHILLWORTHEN\DRAWING\44101\FLOORPLAN.DWG



GENERAL NOTES:

1. SEE ADA/ABA SHEETS FOR ACCESSIBLE GUIDELINES.
2. SEE SHEET A701 FOR DOOR SCHEDULE
3. SEE SHEETS A801-A802 FOR WINDOW TYPES
4. SEE SHEET A100 FOR FOOTING AND FOUNDATION PLAN
5. SEE SHEET A102 FOR FRAMING DIMENSION FLOOR PLAN
6. SEE SHEET A105 FOR ROOF PLAN

KEYNOTES:

1. INSTALL 6" DEEP WASHED ROCK FROM BUILDING LINES TO 1'-0" PAST DRIP LINES AROUND ENTIRE BUILDING.
2. SEMI RECESSED, FIRE RATED, FIRE EXTINGUISHER AND CABINET. SEE DETAIL 1/A501.
3. ROOF LINE ABOVE
4. STEEL CHANNEL ABOVE. SEE SECTIONS AND ELEVATIONS FOR ALIGNMENT. SEE STRUCTURAL DRAWINGS FRO DETAILS
5. CONCRETE PLANTER. SEE LA SHEETS SECTIONS.
6. DEMOLISH AND REMOVE EXISTING CONCRETE LANDING, STEPS AND RAILING. PREPARE FOR FOUNDATION AND CONNECTION TO EXISTING BUILDING.
7. 4" CONCRETE SLAB ON GRADE. SLOPE 2% AWAY FROM BUILDING. SEE SITE DETAILS.
8. FOLDING PARTITION DOOR. SEE DETAILS ON SHEET 1/A512
9. INSTALL PLUMBING ACCESS PANEL FOR HOSE-BIB SHUT OFF
10. MOVE EXISTING ELECTRICAL OUTLET AND GAS LINE TO NORTH OF BRIDGE. SEE ELECTRICAL AND CIVIL SHEETS REMOVE SIDING, INSTALL DRYWALL AT EXISTING WALL
11. METAL DOOR CANOPY. SEE DETAILS.
12. OUTLINE OF FUTURE CUBICLES (NIC)
13. MECHANICAL UNITS. SEE MECH DRAWINGS
14. SEE A100 FOR DIMENSIONS OF FOUNDATION.
15. STEEL COLUMN. SEE STRUCTURAL
16. PROVIDE 4" THICK CONCRETE EQUIPMENT PAD



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Freed

11/29/18		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION

ASHLEY
NATIONAL FOREST

FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

ARCHITECTURAL
FLOOR PLAN

DATE 11/16/2018	ARCHIVE NO.
DESIGNER C. LEWIS	DRAWING SHEET NO. A101
DRAWN SMHW	
CHECKED D. JEPSEN	
PROJECT NO. 644	SHEET 28 OF 119



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Freed

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION

ASHLEY
NATIONAL FOREST

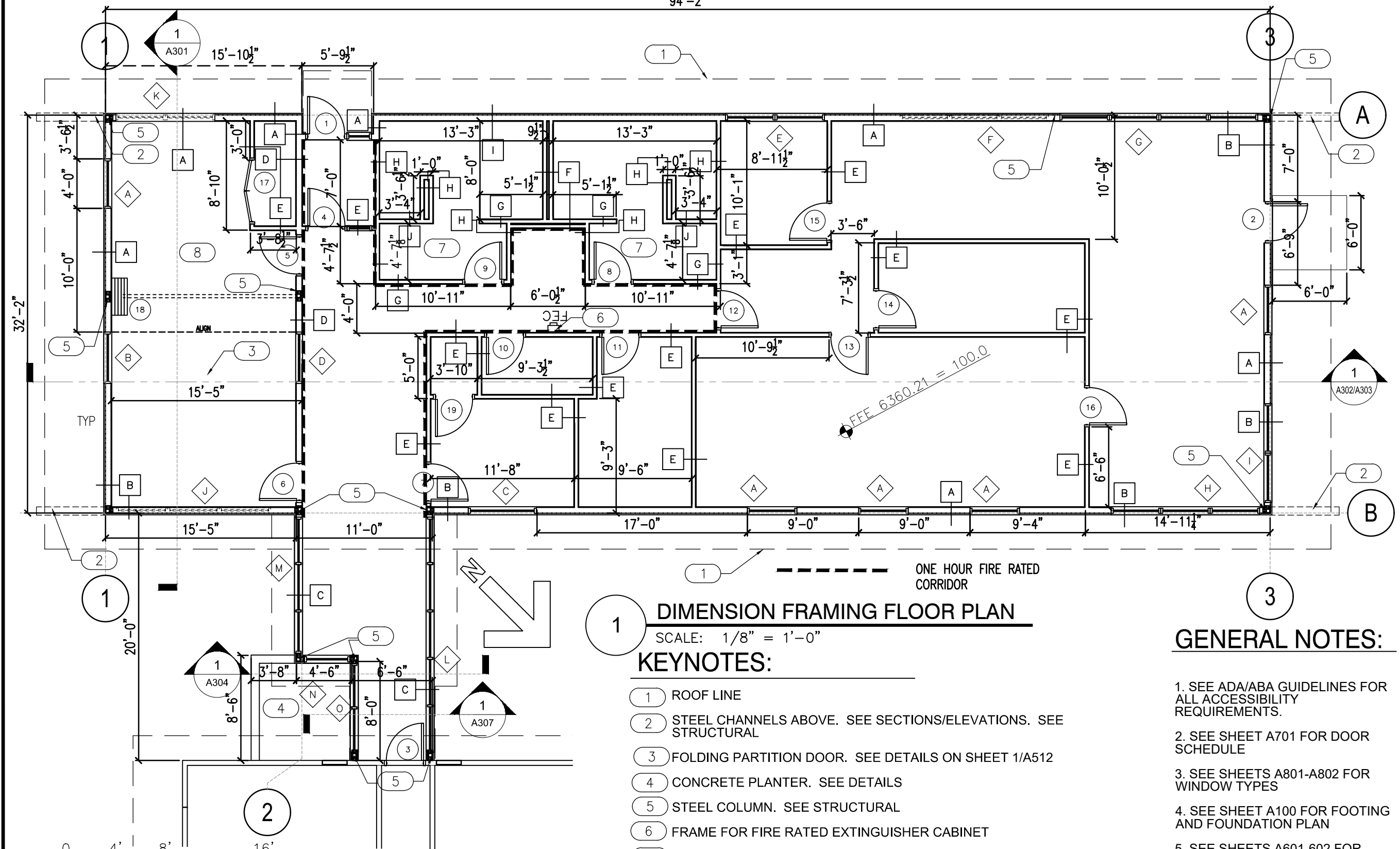
FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

DIMENSION FRAMING
FLOOR PLAN

DATE 11/16/2018	ARCHIVE NO.
DESIGNER C. LEWIS	DRAWING SHEET NO. A102
DRAWN SMHW	
CHECKED D. JEPSEN	
PROJECT NO. 644	SHEET 29 OF 119

94'-2"



DIMENSION FRAMING FLOOR PLAN

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

KEYNOTES:

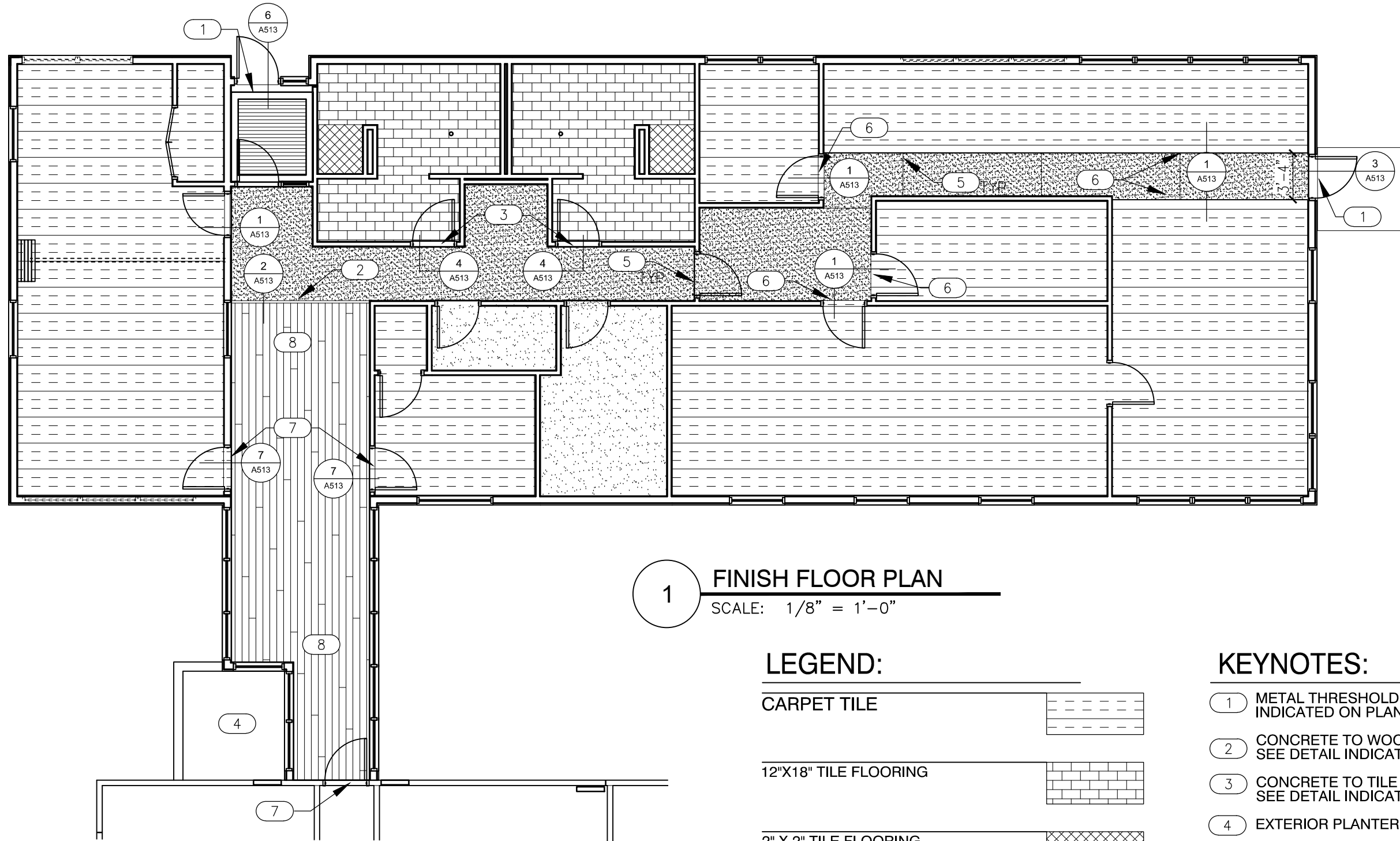
- 1 ROOF LINE
- 2 STEEL CHANNELS ABOVE. SEE SECTIONS/ELEVATIONS. SEE STRUCTURAL
- 3 FOLDING PARTITION DOOR. SEE DETAILS ON SHEET 1/A512
- 4 CONCRETE PLANTER. SEE DETAILS
- 5 STEEL COLUMN. SEE STRUCTURAL
- 6 FRAME FOR FIRE RATED EXTINGUISHER CABINET
- 7 PROVIDE BLOCKING FOR TOILET ACCESSORIES
- 8 COORDINATE WITH COR FOR FLAT SCREEN BLOCKING

GENERAL NOTES:

1. SEE ADA/ABA GUIDELINES FOR ALL ACCESSIBILITY REQUIREMENTS.
2. SEE SHEET A701 FOR DOOR SCHEDULE
3. SEE SHEETS A801-A802 FOR WINDOW TYPES
4. SEE SHEET A100 FOR FOOTING AND FOUNDATION PLAN
5. SEE SHEETS A601-602 FOR WALL TYPES
6. SEE SHEET A105 FOR ROOF PLAN

11/24/18 16:37 SHILLWORTHEN C:\USERS\SHILLWORTHEN\DESKTOP\ASHLEY\DWG\644.A102 FRAMING FLOOR PLAN.DWG

11/24/18 16:50 SHILLWORTHEN C:\USERS\SHILLWORTHEN\DESKTOP\ASHLEY\DWG644.A103.FLOORPLANS.DWG



0 4' 8' 16'

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

1 FINISH FLOOR PLAN

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

LEGEND:

- CARPET TILE
- 12"X18" TILE FLOORING
- 2" X 2" TILE FLOORING
@ 45 DEGREE ANGLE
- ENTRY MAT AND ALUM.
GRATING
- INTERIOR STAINED, POLISHED AND
SEALED CONCRETE
- 3/4" HARDWOOD FLOORING
(PATTERN SHOWS WOOD
FLOORING DIRECTIONALITY)

KEYNOTES:

- 1 METAL THRESHOLD. SEE DETAIL INDICATED ON PLAN.
- 2 CONCRETE TO WOOD TRANSITION. SEE DETAIL INDICATED ON PLAN.
- 3 CONCRETE TO TILE TRANSITION. SEE DETAIL INDICATED ON PLAN.
- 4 EXTERIOR PLANTER.
- 5 CONCRETE CONSTRUCTION JOINT. SEE STRUCTURAL
- 6 RUBBER CARPET THRESHOLD. SEE DETAIL INDICATED ON PLAN.
- 7 CARPET TO WOOD TRANSITION. SEE DETAIL INDICATED ON PLAN.
- 8 WOOD FLOOR OVER VAPOR BARRIER, TREATED SLEEPERS AND 3/4" T&G PLYWOOD. SEE SPEC & TRANSITION DETAIL FOR INFORMATION



United States Department of Agriculture
Forest Service

R04
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Freed

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER
DISTRICT OFFICE
ADDITION

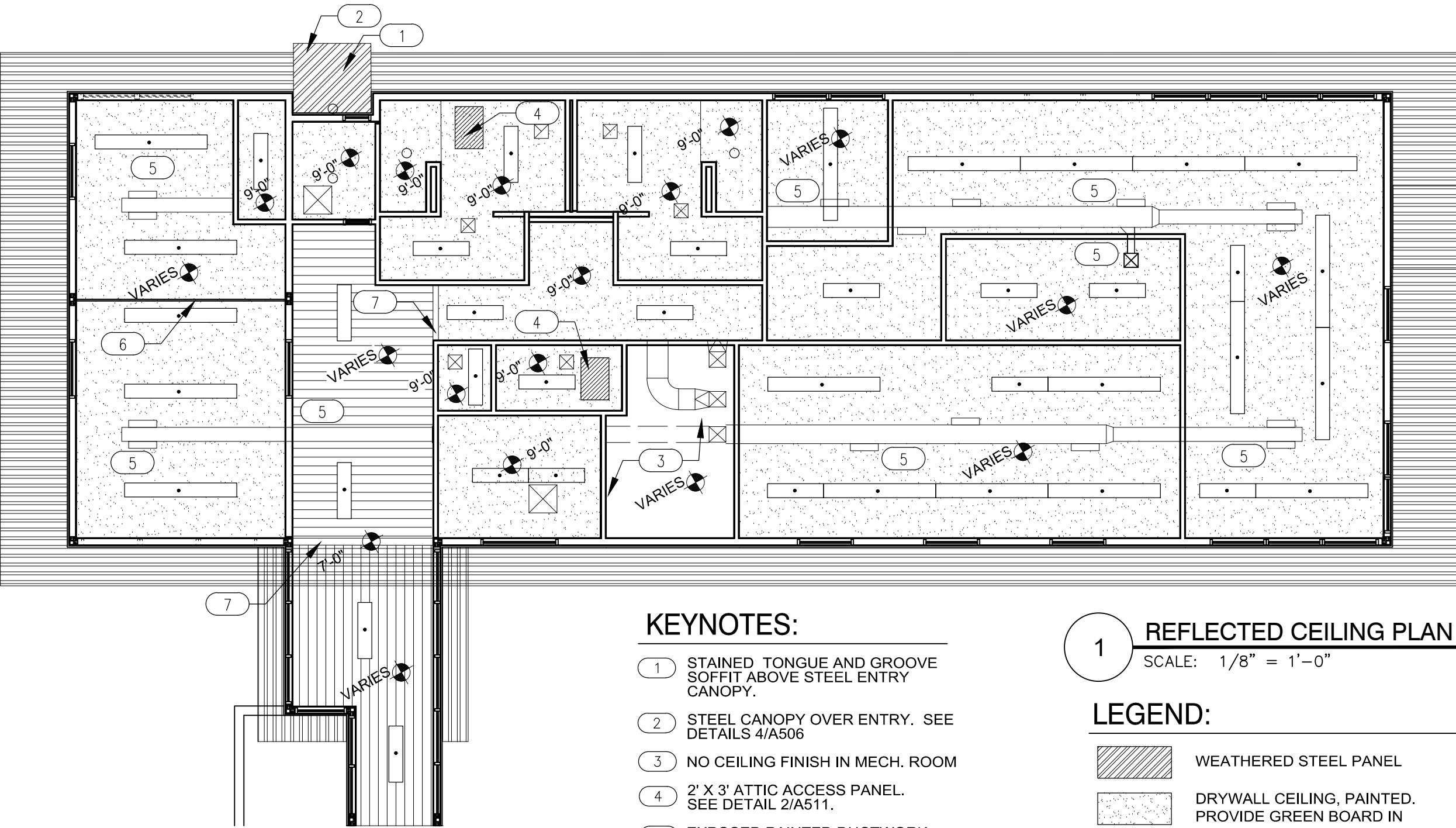
ASHLEY NATIONAL
FOREST

DRAWING TITLE

FINISHED FLOOR PLAN

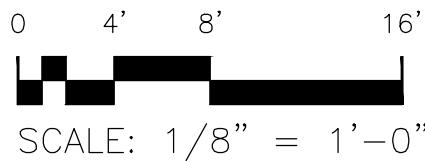
DATE 11/16/2018	ARCHIVE NO.
DESIGNER SMHW	DRAWING SHEET NO. A103
DRAWN SMHW	
CHECKED D. JEPSEN	
PROJECT NO.	SHEET 30 OF 119

11/16/18 16:43 SHILLWORTHEN X:ASHLEY\FLAMINGGORGERANGERDISTRICT\ADDITION\2017\DWG\644.A104.RCP.DWG:



GENERAL NOTES:

1. SEE SHEET G2 FOR DRAWING INDEX.
2. SEE SHEET A901 FOR FINISH LEGEND



KEYNOTES:

- 1 STAINED TONGUE AND GROOVE SOFFIT ABOVE STEEL ENTRY CANOPY.
- 2 STEEL CANOPY OVER ENTRY. SEE DETAILS 4/A506
- 3 NO CEILING FINISH IN MECH. ROOM
- 4 2' X 3' ATTIC ACCESS PANEL. SEE DETAIL 2/A511.
- 5 EXPOSED PAINTED DUCTWORK. SEE MECHANICAL.
- 6 PAINTED SUPPORT BEAM FOR PANEL DOOR
- 7 FRAME "BULKHEAD" TO TRANSITION CEILING HEIGHT

LIGHT FIXTURE	
MECHANICAL FAN	
MECHANICAL RETURN	
MECHANICAL SUPPLY	

1

REFLECTED CEILING PLAN

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

LEGEND:

	WEATHERED STEEL PANEL
	DRYWALL CEILING, PAINTED. PROVIDE GREEN BOARD IN BATHROOMS. SEE FINISH SCHEDULE. PROVIDE INTERSTITIAL 2X4 FRAMING FOR ALL GYP. BOARD CEILINGS @ 16" O.C.
	FINISHED DOUGLAS FIR TONGUE AND GROOVE
	EXTERIOR FINISHED DOUGLAS FIR TONGUE AND GROOVE
	PAINTED MECHANICAL DUCTWORK OVERHEAD, EXCEPT DO NOT PAINT MECHANICAL ROOM
	INDICATES FINISH CEILING HEIGHTS



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Friel

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION

ASHLEY
NATIONAL FOREST

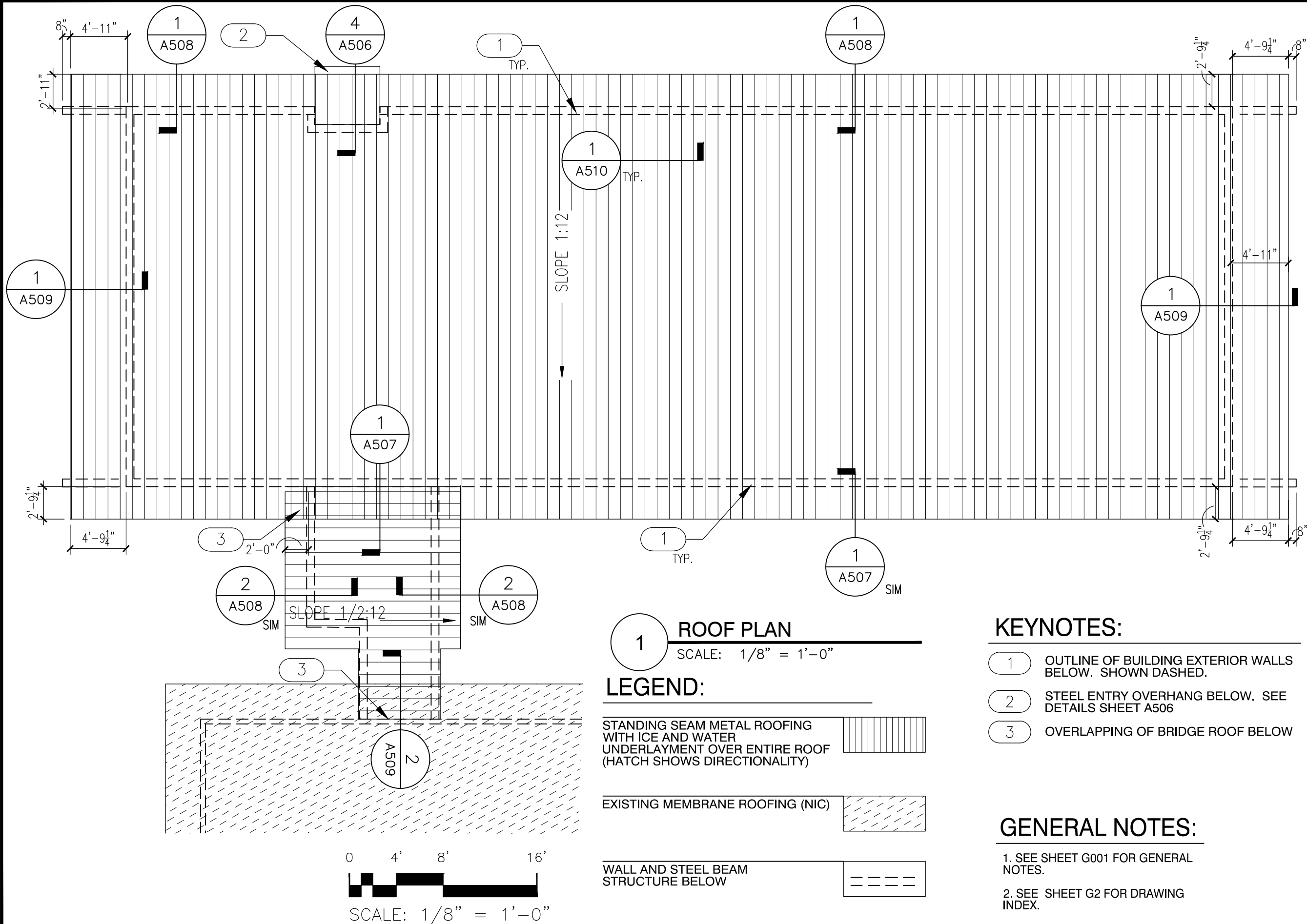
FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

REFLECTED
CEILING PLAN

DATE 11/16/2018	ARCHIVE NO.
DESIGNER C. LEWIS	DRAWING SHEET NO. A104
DRAWN SMHW	
CHECKED D. JEPPISEN	
PROJECT NO. 644	SHEET 31 OF 119

11/24/18 17:04:58\\SHILLWORTHEN\C\USERS\SHILLWORTHEN\DWG\TOP\ASHLEY\DWG\644.A105 ROOF.LANDWG



1 ROOF PLAN

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


- ## LEGEND:
- STANDING SEAM METAL ROOFING WITH ICE AND WATER UNDERLAYMENT OVER ENTIRE ROOF (HATCH SHOWS DIRECTIONALITY)
 - EXISTING MEMBRANE ROOFING (NIC)
 - WALL AND STEEL BEAM STRUCTURE BELOW

KEYNOTES:

- 1 OUTLINE OF BUILDING EXTERIOR WALLS BELOW. SHOWN DASHED.
- 2 STEEL ENTRY OVERHANG BELOW. SEE DETAILS SHEET A506
- 3 OVERLAPPING OF BRIDGE ROOF BELOW

GENERAL NOTES:

- 1. SEE SHEET G001 FOR GENERAL NOTES.
- 2. SEE SHEET G2 FOR DRAWING INDEX.



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Freed

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

**FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION**

**ASHLEY
NATIONAL FOREST**

FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

ROOF PLAN

DATE 11/16/2018	ARCHIVE NO.
DESIGNER C. LEWIS	DRAWING SHEET NO. A105
DRAWN SMHW	
CHECKED D. JEPPISEN	
PROJECT NO. 644	SHEET 32 OF 119

11/19/18 10:02 SHILLWORTHEN C:\USERS\SHILLWORTHEN\DESKTOP\ASHLEY\DWG\644.A200.BUILDING ELEVATIONS.DWG;

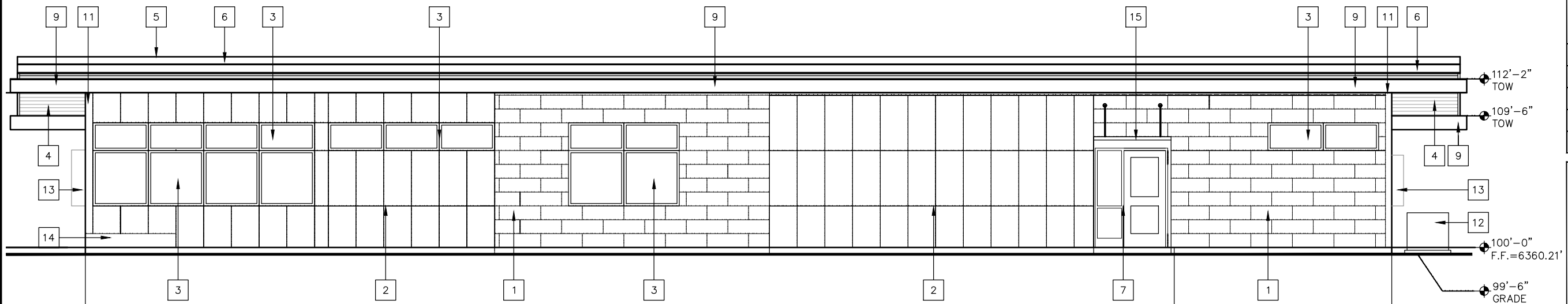
KEY NOTES:

*SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

- 1 WEATHERED CORTEN STEEL SIDING OVER RAIN SCREEN SYSTEM. SEE DETAILS A502
- 2 PAINTED COMPOSITE SIDING WITH EXPOSED FASTENERS AND REVEALS. SEE DETAILS
- 3 ALUMINUM CLAD WOOD WINDOWS. SEE A801/A1
- 4 STAINED AND SEALED, DOUGLAS FIR TONGUE AND GROOVE SOFFITS
- 5 STANDING SEAM, METAL ROOFING

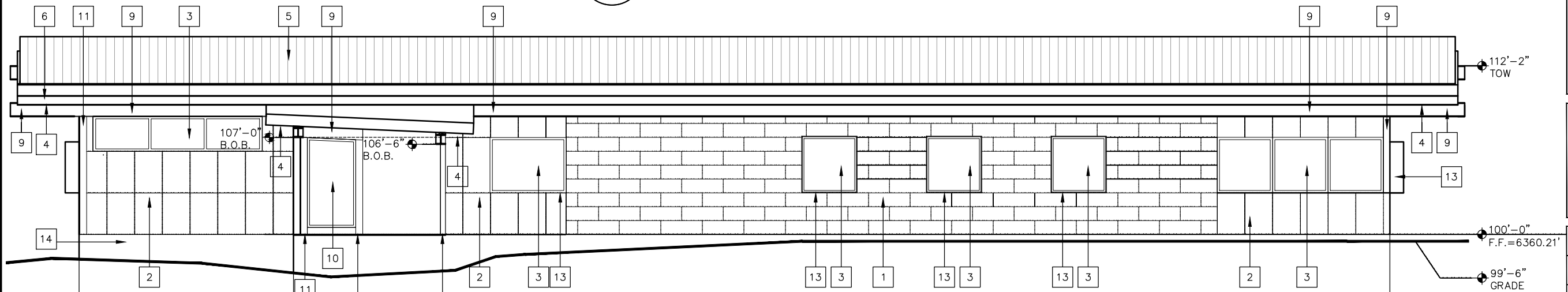
- 6 METAL FASCIA AND DRIP EDGE TO MATCH METAL CLADDING OF WINDOWS TYP. AT ALL ROOF FASCIAS. SEE ROOF DETAILS.
- 7 ALUMINUM CLAD WOOD ENTRANCE DOOR AND SIDELIGHT. SEE DOOR TYPES AND DETAILS
- 8 ALUMINUM CLAD WOOD DOOR AND FRAME.
- 9 PAINTED STRUCTURAL STEEL COMPONENTS. SEE STRUCTURAL DRAWINGS.
- 10 ALUMINUM STOREFRONT GLAZING

- 11 ALUMINUM CLAD STEEL COLUMN. SEE STRUCTURAL
- 12 AIR CONDENSERS ON 4" SLAB. SEE MECHANICAL SHEETS
- 13 CORTEN STEEL WINDOW BOX. SEE DETAILS
- 14 APPLY STEEL FLASHING AS NEEDED TO BE 6" ABOVE WINDOW PLANTER BOXES.
- 15 STEEL CANOPY. SEE STRUCTURAL DRAWINGS



WEST ELEVATION

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



EAST ELEVATION

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



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



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Freed

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION

ASHLEY
NATIONAL FOREST

FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

WEST AND EAST
BUILDING ELEVATIONS

DATE 11/16/2018	ARCHIVE NO.
DESIGNER C. LEWIS	DRAWING SHEET NO. A201
DRAWN SMHW	
CHECKED D. JEPPSEN	
PROJECT NO. 644	SHEET 33 OF 119

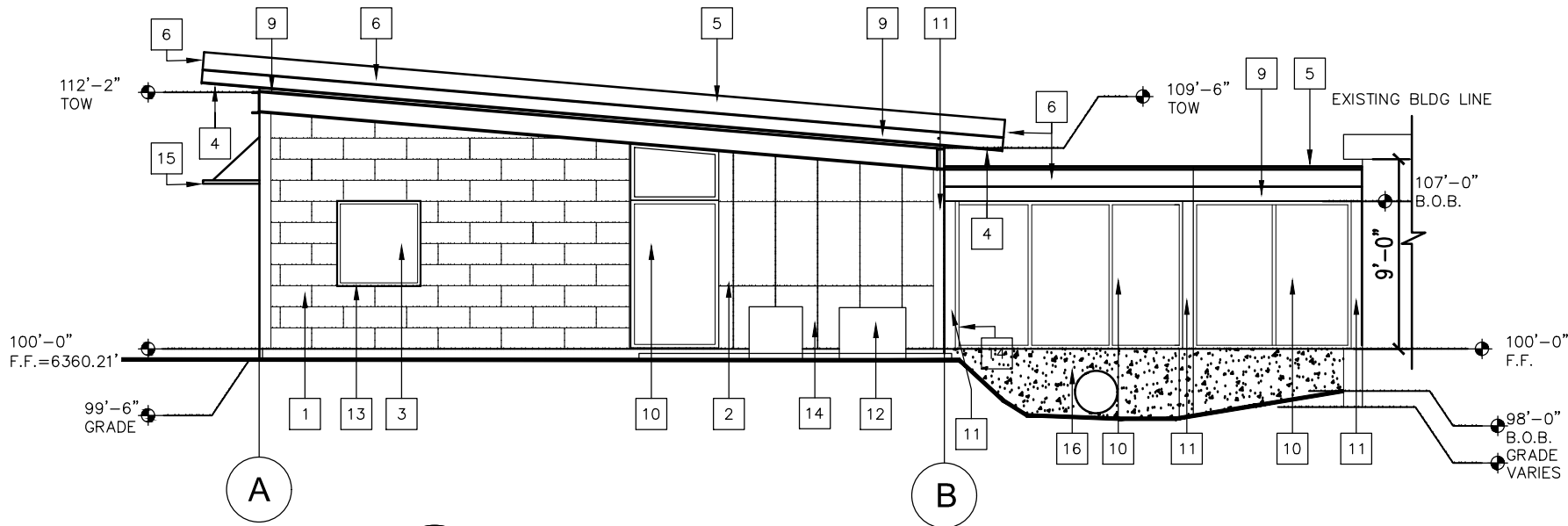
KEY NOTES:

*SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

- 1 WEATHERED CORTEN STEEL SIDING OVER RAIN SCREEN SYSTEM. SEE DETAILS A502
- 2 PAINTED COMPOSITE SIDING WITH EXPOSED FASTENERS AND REVEALS. SEE DETAILS
- 3 ALUMINUM CLAD WOOD WINDOWS. SEE A801/A802
- 4 STAINED AND SEALED, DOUGLAS FIR TONGUE AND GROOVE SOFFITS
- 5 STANDING SEAM, METAL ROOFING

- 6 METAL FASCIA AND DRIP EDGE TO MATCH METAL CLADDING OF WINDOWS TYP. AT ALL ROOF FASCIAS. SEE ROOF DETAILS.
- 7 ALUMINUM CLAD WOOD ENTRANCE DOOR AND SIDELIGHT. SEE DOOR TYPES AND DETAILS
- 8 ALUMINUM CLAD WOOD DOOR AND FRAME.
- 9 PAINTED STRUCTURAL STEEL COMPONENTS. SEE STRUCTURAL DRAWINGS.
- 10 ALUMINUM STOREFRONT GLAZING

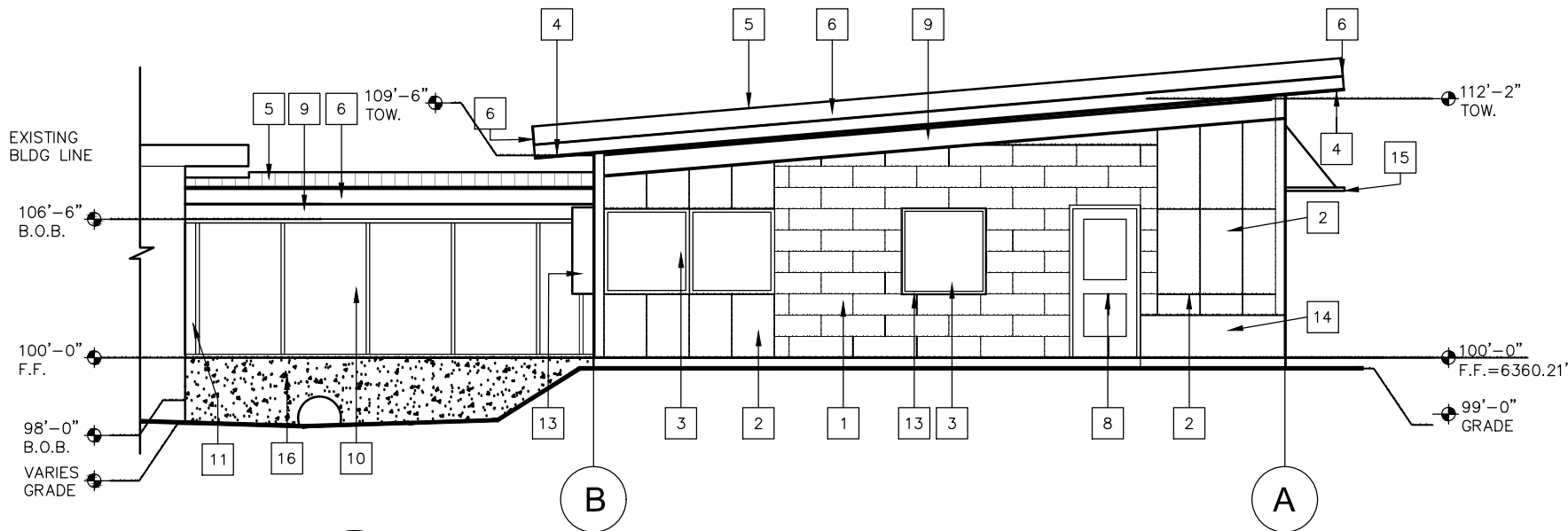
- 11 ALUMINUM CLAD STEEL COLUMN. SEE STRUCTURAL
- 12 AIR CONDENSERS ON 4" SLAB. SEE MECHANICAL SHEETS
- 13 CORTEN STEEL WINDOW BOX. SEE DETAILS
- 14 APPLY STEEL FLASHING AS NEEDED TO BE 6" ABOVE WINDOW PLANTER BOXES.
- 15 STEEL CANOPY. SEE STRUCTURAL DRAWINGS
- 16 CONCRETE STEM WALL AND DRAINAGE PIPE. SEE CIVIL AND STRUCTURAL DETAILS.



1

SOUTH ELEVATION

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



2

NORTH ELEVATION

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



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



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Fred

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION

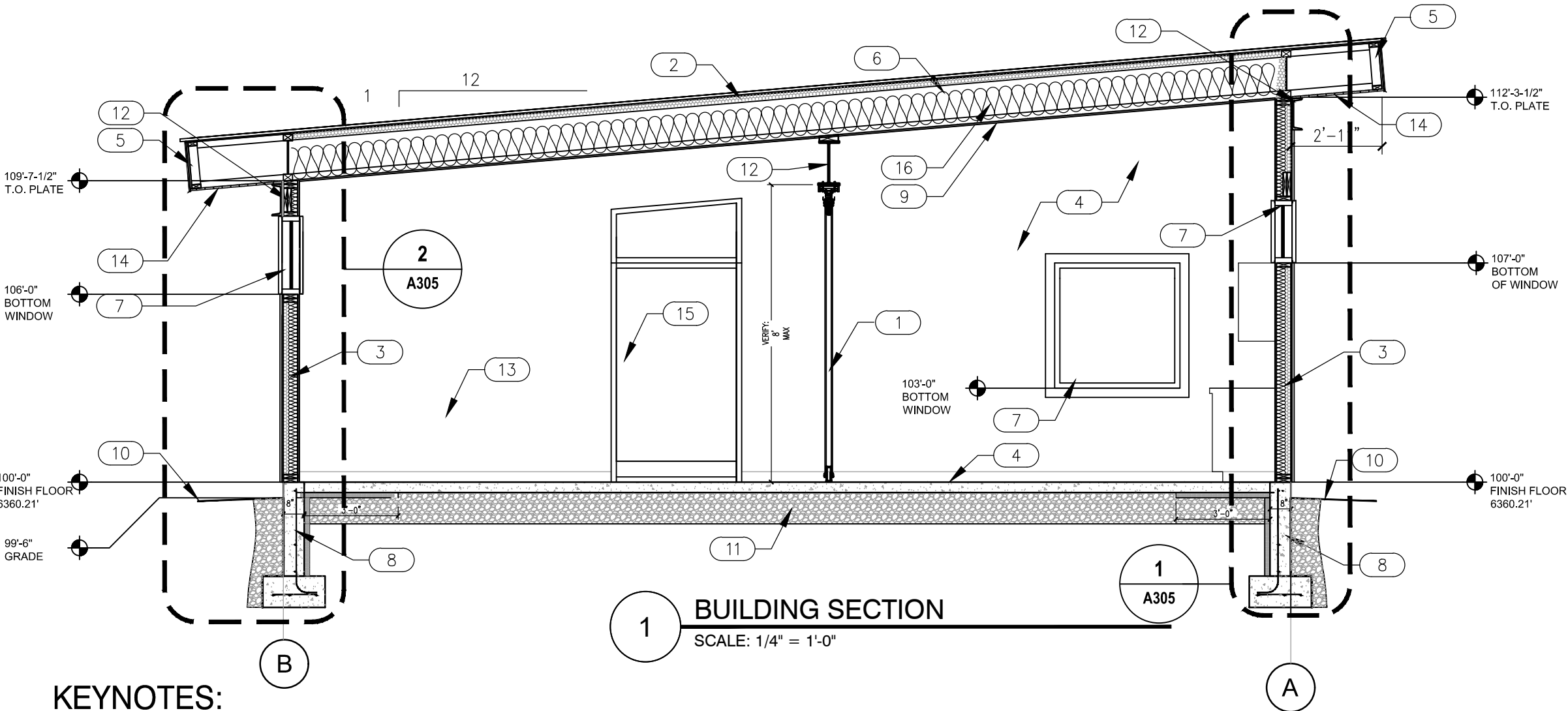
ASHLEY
NATIONAL FOREST

FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

SOUTH AND NORTH
BUILDING ELEVATIONS

DATE 11/16/2018	ARCHIVE NO.
DESIGNER C. LEWIS	DRAWING SHEET NO. A202
DRAWN SMHW	
CHECKED D. JEPPISEN	
PROJECT NO. 644	SHEET 34 OF 119



KEYNOTES:

- 1

ACOUSTICAL PARTITION DOOR. SEE SPECIFICATIONS.
- 2

STANDING SEAM STEEL ROOFING OVER ICE AND WATER SHIELD TO COVER ENTIRE ROOF. SEE ROOF DETAIL SHEETS AND ROOF PLAN (A105) FOR ADDITIONAL INFORMATION.
- 3

2X6 EXTERIOR STUD WALL 2" THICK HIGH DENSITY SPRAY FOAM, 3 1/2" BLOWN IN FIBERGLASS BLANKET, EXTERIOR SHEATHING, BUILDING WRAP, 1 X FURRING WITH WEATHERING STEEL OR COMPOSITE PANEL SIDING. SEE ELEVATIONS, DETAILS AND SPECS
- 4

BASE/ FLOORING MATERIAL. SEE FINISH PLAN
- 5

2 X FRAMING, 16" OC, SHEATHING, PREFINISHED METAL, DRIP EDGE AND METAL FASCIA. SEE ROOF DETAILS.
- 6

TJI JOISTS. SEE STRUCTURAL
- 7

ALUMINUM CLAD WOOD WINDOW, TRIM. SEE WINDOW ELEVATIONS AND DETAILS.
- 8

CONCRETE FOOTING AND FOUNDATION. SEE DETAILS AND STRUCTURAL DRAWINGS.
- 9

PAINTED GYPSUM BOARD CEILING. SEE REFLECTED CEILING PLAN.
- 10

EXTERIOR FINISH GRADE SHALL BE SLOPED MIN. 2% AWAY FROM BLDG AND START 6" BELOW TOP OF FOUNDATION WALL. SEE CIVIL PLANS FOR ALL GRADING ELEVATIONS.
- 11

4" CONCRETE SLAB, VAPOR BARRIER, 3' WIDTH OF 2" RIGID INSULATION AT PERIMETER AND STEM WALL, OVER 12" DEEP CLEAN FREE-DRAINING COMPACTED GRAVEL.
- 12

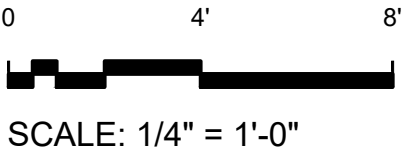
PAINTED STEEL CHANNEL. SEE STRUCTURAL DRAWINGS
- 13

PAINTED GYPSUM BOARD AT WALLS.
- 14

3/4" DOUG-FIR TONGUE AND GROOVE SOFFIT WITH METAL TRIM. SEE ROOF DETAILS
- 15

ALUMINUM STOREFRONT WINDOW SYSTEM
- 16

2" OF CLOSED-CELL, HIGH-DENSITY SPRAY FOAM INSULATION AND 12" DEPTH BLOWN IN BLANKET INSULATION.



REGION 4
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Fred

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION

ASHLEY
NATIONAL FOREST

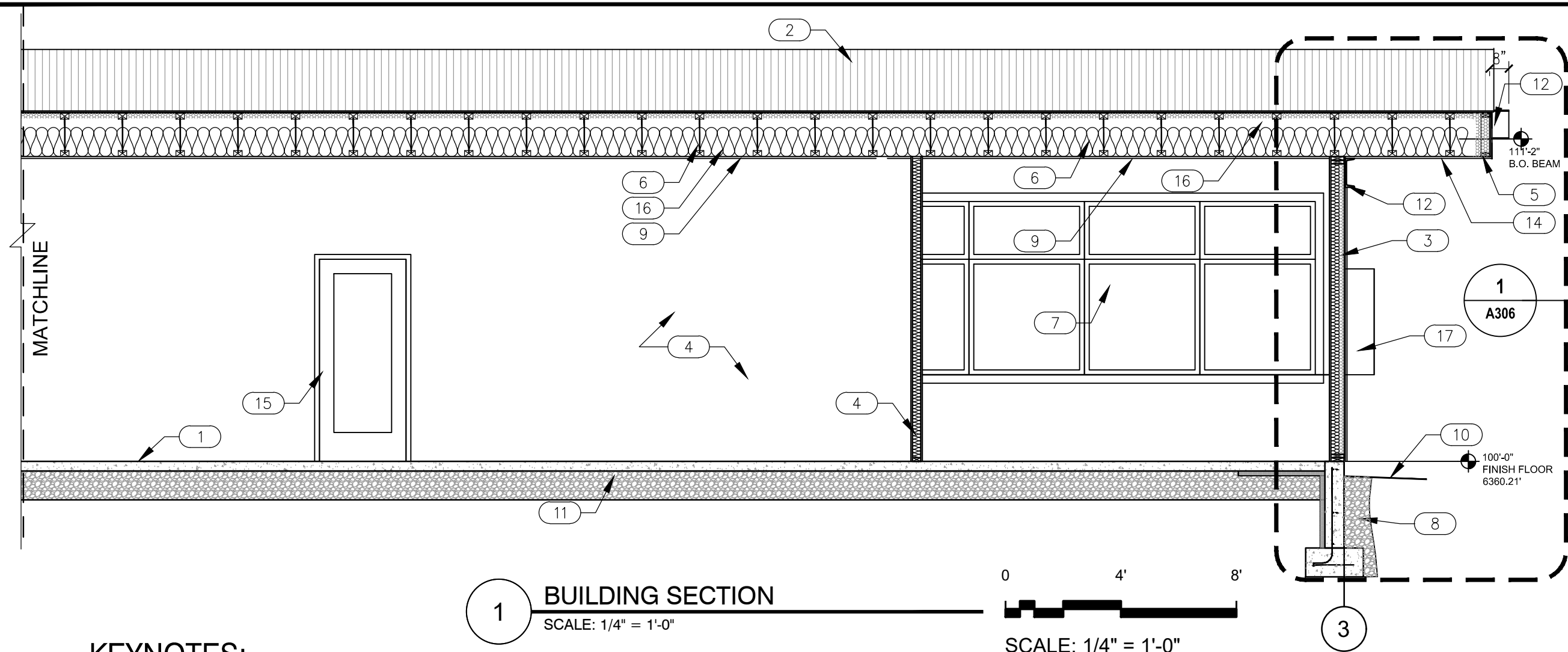
FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

BUILDING SECTION

DATE 11/16/2018	ARCHIVE NO.
DESIGNER C. LEWIS	DRAWING SHEET NO. A301
DRAWN SMHW	
CHECKED D. JEPPESEN	
PROJECT NO. 644	SHEET 35 OF 119

11/25/18 09:54:54 \\HILLWORTHEN\C\USERS\HILLWORTHEN\DWG\44.A301.3103.BUILDING_AND_WALL_SECTIONS.DWG;



1 **BUILDING SECTION**
SCALE: 1/4" = 1'-0"

KEYNOTES:

- | | | | |
|---|---|----|---|
| 1 | BASE/FLOORING MATERIAL. SEE FINISH PLAN | 9 | PAINTED GYPSUM BOARD CEILING. SEE REFLECTED CEILING PLAN. |
| 2 | STANDING SEAM STEEL ROOFING OVER ICE AND WATER SHIELD TO COVER ENTIRE ROOF. SEE ROOF DETAIL SHEETS AND ROOF PLAN (A105) FOR ADDITIONAL INFORMATION. | 10 | EXTERIOR FINISH GRADE SHALL BE SLOPED MIN. 2% AWAY FROM BLDG AND START 6" BELOW TOP OF FOUNDATION WALL. SEE CIVIL PLANS FOR ALL GRADING ELEVATIONS. |
| 3 | 2X6 EXTERIOR STUD WALL 2"THICK HIGH DENSITY SPRAY FOAM, 3 1/2" BLOWN IN FIBERGLASS BLANKET, EXTERIOR SHEATHING, BUILDING WRAP, 1 X FURRING WITH WEATHERING STEEL OR COMPOSITE PANEL SIDING. SEE ELEVATIONS, DETAILS AND SPECS | 11 | 4" CONCRETE SLAB, VAPOR BARRIER, 3' WIDTH OF 2" RIGID INSULATION AT PERIMETER AND STEM WALL, OVER 12" DEEP CLEAN FREE-DRAINING COMPACTED GRAVEL. |
| 4 | TYP. INTERIOR GYP. BD. WALL (SEE FINISH SCHEDULE) WITH FULL THICKNESS SOUND BATTS. FOR SHEATHING, SEE STRUCTURAL DRAWINGS. | 12 | PAINTED STEEL CHANNEL. SEE STRUCTURAL DRAWINGS |
| 5 | 2 X FRAMING, 16" OC, SHEATHING, PREFINISHED METAL, DRIP EDGE AND METAL FASCIA. SEE ROOF DETAILS. | 13 | SUSPENDED GYP CEILING AND FRAMING. 2 X 4, 16 OC. |
| 6 | TJI JOISTS. SEE STRUCTURAL | 14 | 3/4" DOUG-FIR TONGUE AND GROOVE SOFFIT WITH METAL TRIM. SEE ROOF DETAILS |
| 7 | ALUMINUM CLAD WOOD WINDOW/ TRIM. SEE WINDOW ELEVATIONS AND DETAILS. | 15 | HOLLOW METAL/ SOLID CORE WOOD FRAMED DOORS AND WINDOWS. SEE DOOR SCHEDULE. |
| 8 | CONCRETE FOOTING AND FOUNDATION. SEE DETAILS AND STRUCTURAL DRAWINGS. | 16 | 2" OF CLOSED-CELL, HIGH-DENSITY SPRAY FOAM INSULATION AND 12" DEPTH BLOWN IN BLANKET INSULATION. |
| | | 17 | WEATHERING STEEL WINDOW BOX, SEE DETAILS |



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Fred

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

**FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION**

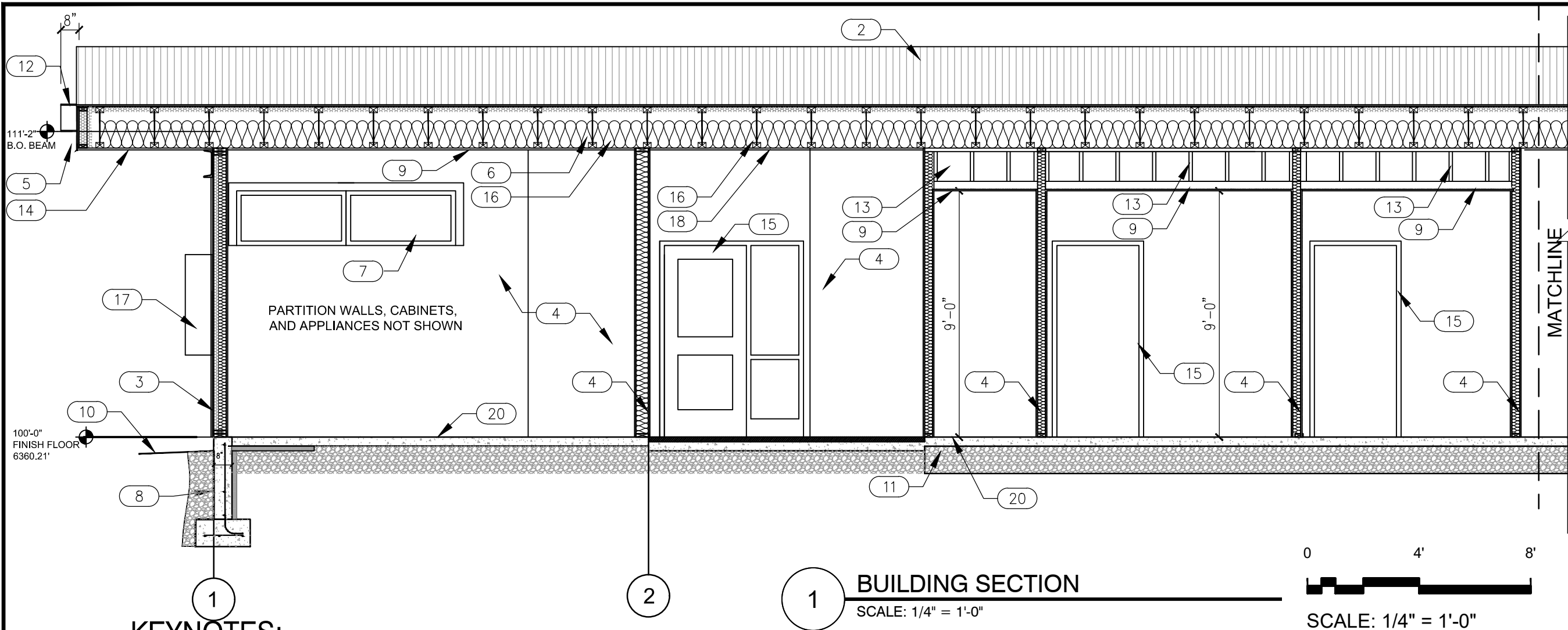
**ASHLEY
NATIONAL FOREST**

FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

BUILDING SECTION

DATE 11/16/2018	ARCHIVE NO.
DESIGNER C. LEWIS	DRAWING SHEET NO. A302
DRAWN SMHW	
CHECKED D. JEPPESEN	
PROJECT NO. 644	SHEET 36 OF 119



KEYNOTES:

- 1

BASE/FLOORING MATERIAL. SEE FINISH PLAN
- 2

STANDING SEAM STEEL ROOFING OVER ICE AND WATER SHIELD TO COVER ENTIRE ROOF. SEE ROOF DETAIL SHEETS AND ROOF PLAN (A105) FOR ADDITIONAL INFORMATION.
- 3

2X6 EXTERIOR STUD WALL 2"THICK HIGH DENSITY SPRAY FOAM, 3 1/2" BLOWN IN FIBERGLASS BLANKET, EXTERIOR SHEATHING, BUILDING WRAP, 1 X FURRING WITH WEATHERING STEEL OR COMPOSITE PANEL SIDING. SEE ELEVATIONS, DETAILS AND SPECS
- 4

TYP. INTERIOR GYP. BD. WALL (SEE FINISH SCHEDULE) WITH FULL THICKNESS SOUND BATTS. FOR SHEATHING, SEE STRUCTURAL DRAWINGS.
- 5

2 X FRAMING, 16" OC, SHEATHING, PREFINISHED METAL, DRIP EDGE AND METAL FASCIA. SEE ROOF DETAILS.
- 6

TJI JOISTS. SEE STRUCTURAL
- 7

ALUMINUM CLAD WOOD WINDOW/ TRIM. SEE WINDOW ELEVATIONS AND DETAILS.
- 8

CONCRETE FOOTING AND FOUNDATION. SEE DETAILS AND STRUCTURAL DRAWINGS.
- 9

PAINTED GYPSUM BOARD CEILING. SEE REFLECTED CEILING PLAN.
- 10

EXTERIOR FINISH GRADE SHALL BE SLOPED MIN. 2% AWAY FROM BLDG AND START 6" BELOW TOP OF FOUNDATION WALL. SEE CIVIL PLANS FOR ALL GRADING ELEVATIONS.
- 11

4" CONCRETE SLAB, VAPOR BARRIER, 3' WIDTH OF 2" RIGID INSULATION AT PERIMETER AND STEM WALL, OVER 12" DEEP CLEAN FREE-DRAINING COMPACTED GRAVEL.
- 12

PAINTED STEEL CHANNEL. SEE STRUCTURAL DRAWINGS
- 13

SUSPENDED GYP CEILING AND FRAMING. 2 X 4, 16 OC.
- 14

3/4" DOUG-FIR TONGUE AND GROOVE SOFFIT WITH METAL TRIM. SEE ROOF DETAILS
- 15

HOLLOW METAL/ SOLID CORE WOOD FRAMED DOORS AND WINDOWS. SEE DOOR SCHEDULE.
- 16

2" OF CLOSED-CELL, HIGH-DENSITY SPRAY FOAM INSULATION AND 12" DEPTH BLOWN IN BLANKET INSULATION.
- 17

WEATHERING STEEL WINDOW BOX, SEE DETAILS



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Freed

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION

ASHLEY
NATIONAL FOREST

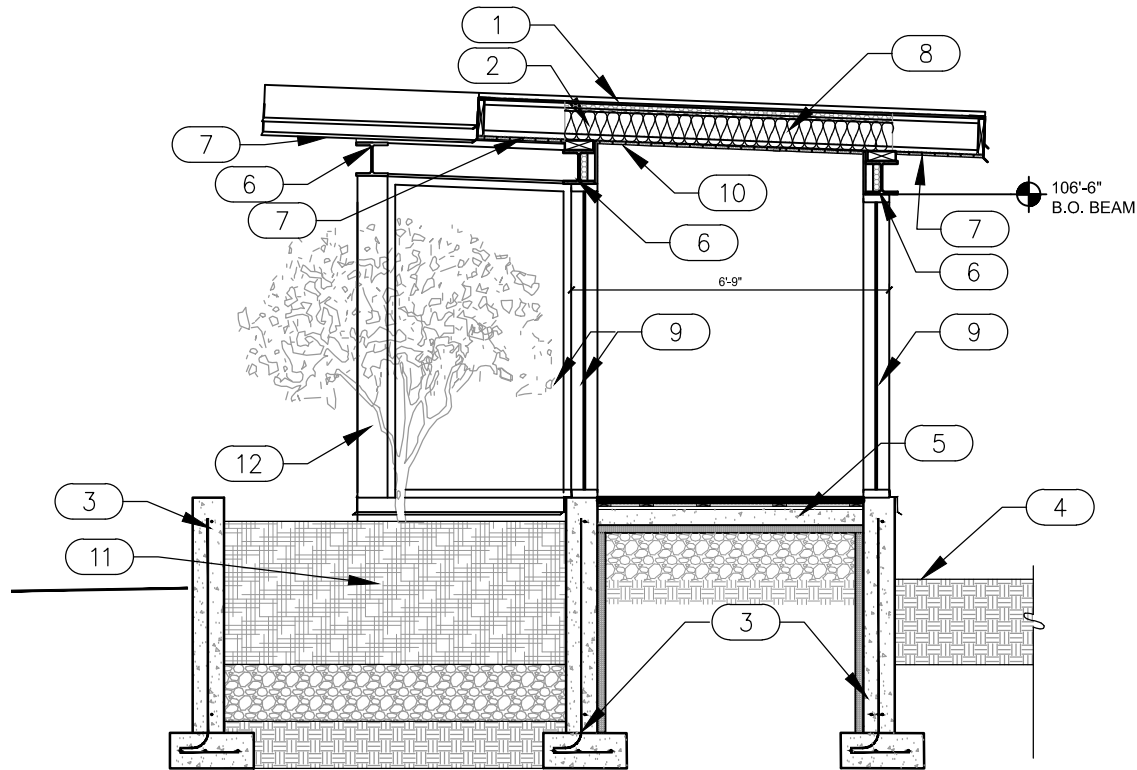
FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

BUILDING SECTION

DATE 11/16/2018	ARCHIVE NO.
DESIGNER C. LEWIS	DRAWING SHEET NO. A303
DRAWN SMHW	
CHECKED D. JEPPESEN	
PROJECT NO. 644	SHEET 37 OF 119

11/25/18 10:47 SHILLWORTHEN C:\USERS\SHILLWORTHEN\DESKTOP\ASHLEY\DWG\644.A304.5.6.7.BUILDING AND WALL SECTIONS.DWG

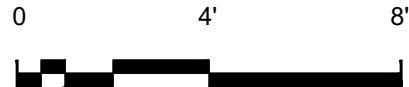


1 BUILDING SECTION

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

KEYNOTES:

- | | | | |
|---|--|----|---|
| 1 | STANDING SEAM STEEL ROOFING OVER ICE AND WATER SHIELD TO COVER ENTIRE ROOF. SEE ROOF DETAIL SHEETS AND ROOF PLAN (A105) FOR ADDITIONAL INFORMATION. | 9 | ALUMINUM STOREFRONT WINDOW SYSTEM |
| 2 | TJI JOISTS. SEE STRUCTURAL. | 10 | 3/4" DOUG-FIR TONGUE AND GROOVE CEILING FINISH. SEE FINISH DETAILS. |
| 3 | CONCRETE FOOTING AND FOUNDATION. SEE DETAILS AND STRUCTURAL DRAWINGS. | 11 | CONCRETE FOOTINGS AND FOUNDATION WALLS. PLANTER BOX LINED WITH WATERPROOF MEMBRANE. SEE PLANTER DETAIL 4/A501. SEE LANDSCAPE SHEETS FOR PLANTINGS. PLANTING MEDIA, 12" WASHED ROCK, NATIVE SOIL |
| 4 | EXTERIOR FINISH GRADE SHALL BE SLOPED MIN. 2% AWAY FROM BLDG AND START A MINIMUM OF 6" BELOW TOP OF FOUNDATION WALL. SEE CIVIL PLANS FOR ALL GRADING ELEVATIONS. | 12 | ALUMINUM CLAD STEEL COLUMN. SEE STRUCTURAL |
| 5 | 4" CONCRETE SLAB, OVER VAPOR BARRIER, 2" RIGID INSULATION, RECESSED, WOOD FLOOR | | |
| 6 | PAINTED STEEL BEAM. WELD/COPE CORNER JOINT FOR WATERTIGHT ASSEMBLY. SEE STRUCTURAL. | | |
| 7 | 3/4" DOUG-FIR TONGUE AND GROOVE SOFFIT. SEE ROOF DETAILS | | |
| 8 | 2" OF CLOSED-CELL, HIGH-DENSITY SPRAY FOAM INSULATION AND 8" DEPTH BLOWN IN BLANKET INSULATION. | | |



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



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Fred

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION

ASHLEY
NATIONAL FOREST

FLAMING GORGE RANGER DISTRICT

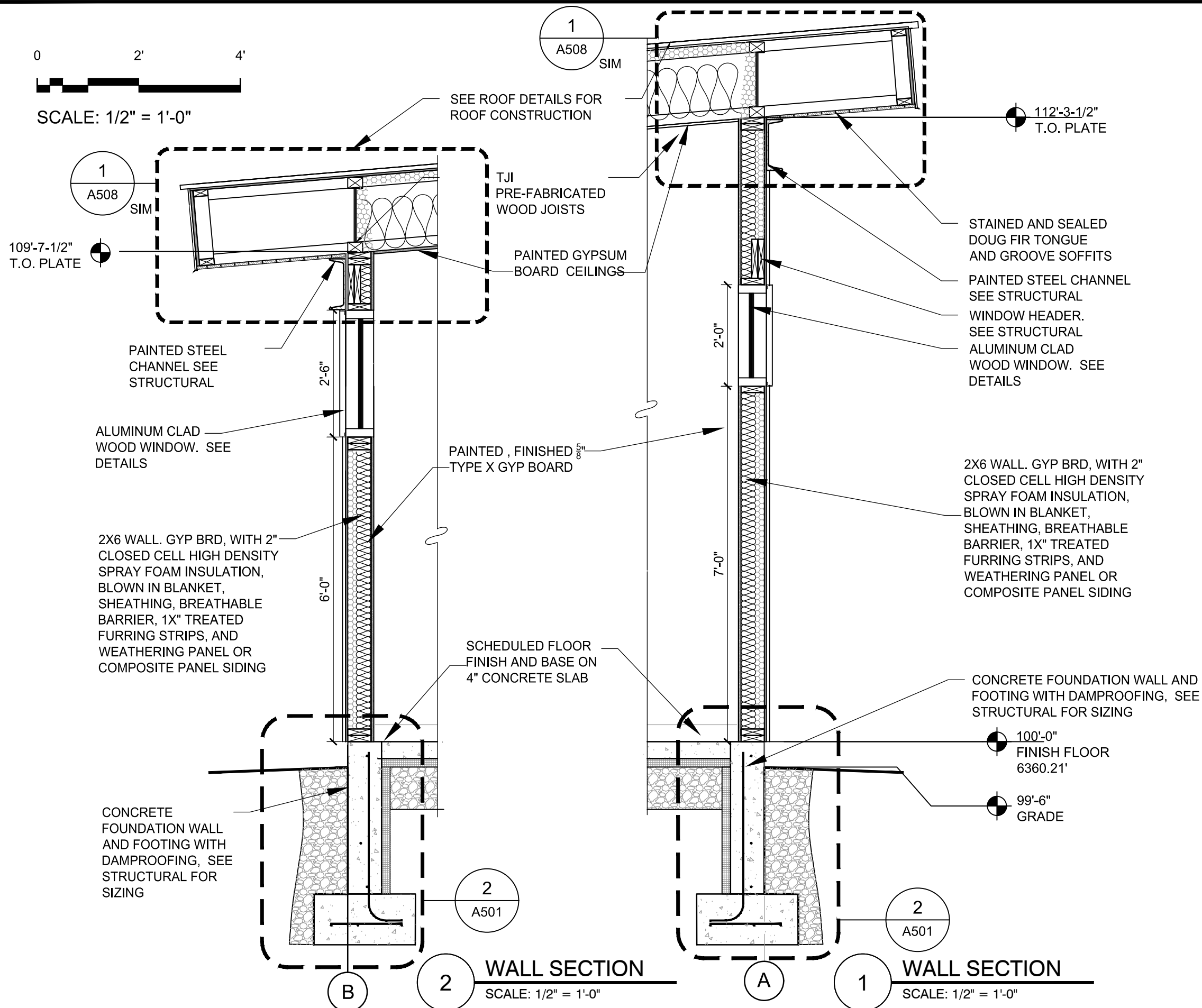
DRAWING TITLE

BUILDING SECTION

DATE 11/16/2018	ARCHIVE NO.
DESIGNER C. LEWIS	DRAWING SHEET NO. A304
DRAWN SMHW	
CHECKED D. JEPPISEN	
PROJECT NO. 644	SHEET 38 OF 119

0 2' 4'

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



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Freed

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME
**FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION**

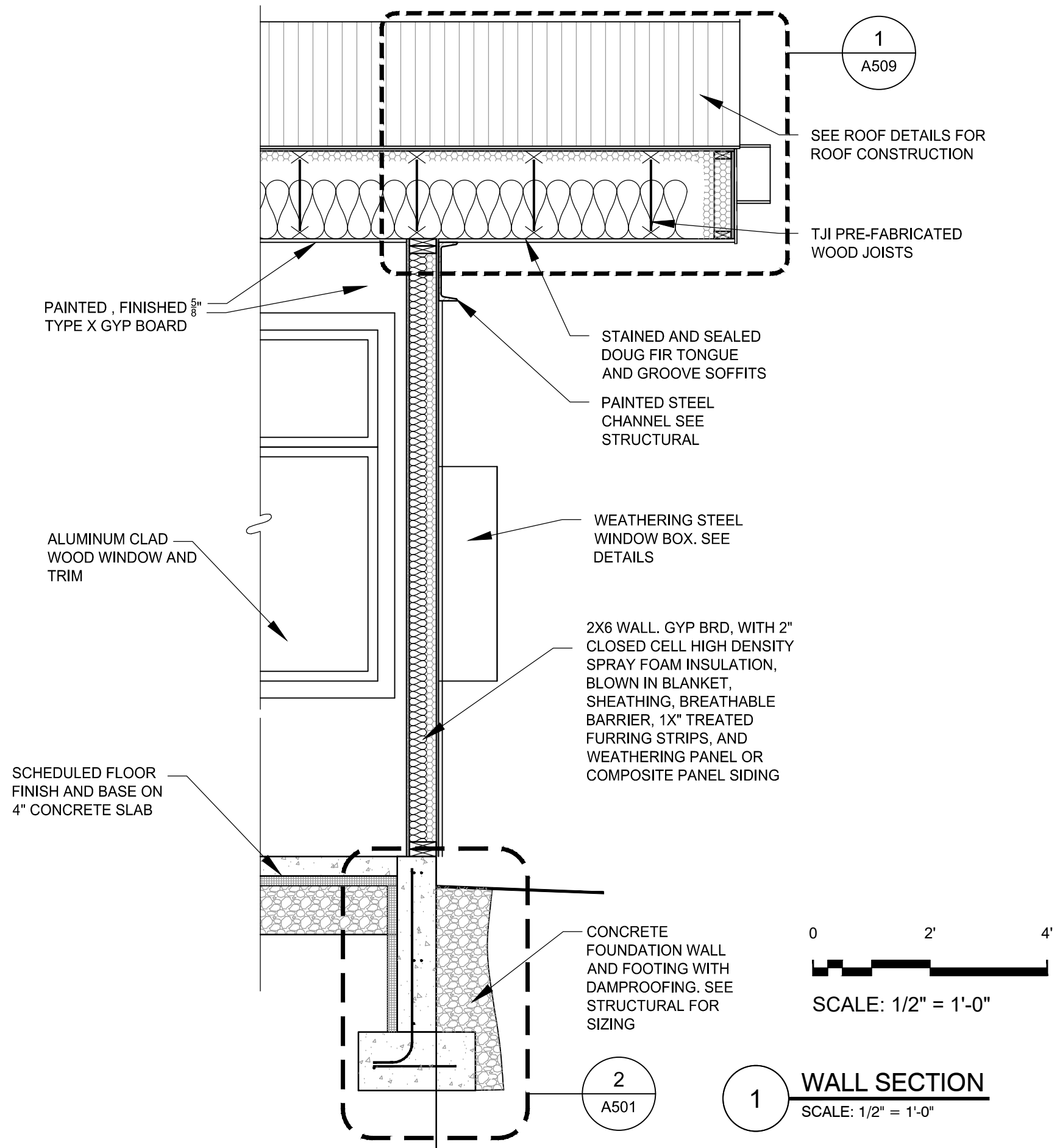
**ASHLEY
NATIONAL FOREST**

FLAMING GORGE RANGER DISTRICT

DRAWING TITLE
WALL SECTIONS

DATE 11/16/2018	ARCHIVE NO.
DESIGNER C. LEWIS	DRAWING SHEET NO. A305
DRAWN SMHW	
CHECKED D. JEPPESEN	
PROJECT NO. 644	SHEET 39 OF 119

1/25/18 10:47 SHILLWORTHEN C:\USERS\SHILLWORTHEN\DESKTOP\ASHLEY\DWG\644.A304.5.6.7.BUILDING AND WALL SECTIONS.DWG



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Fred

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION

ASHLEY
NATIONAL FOREST

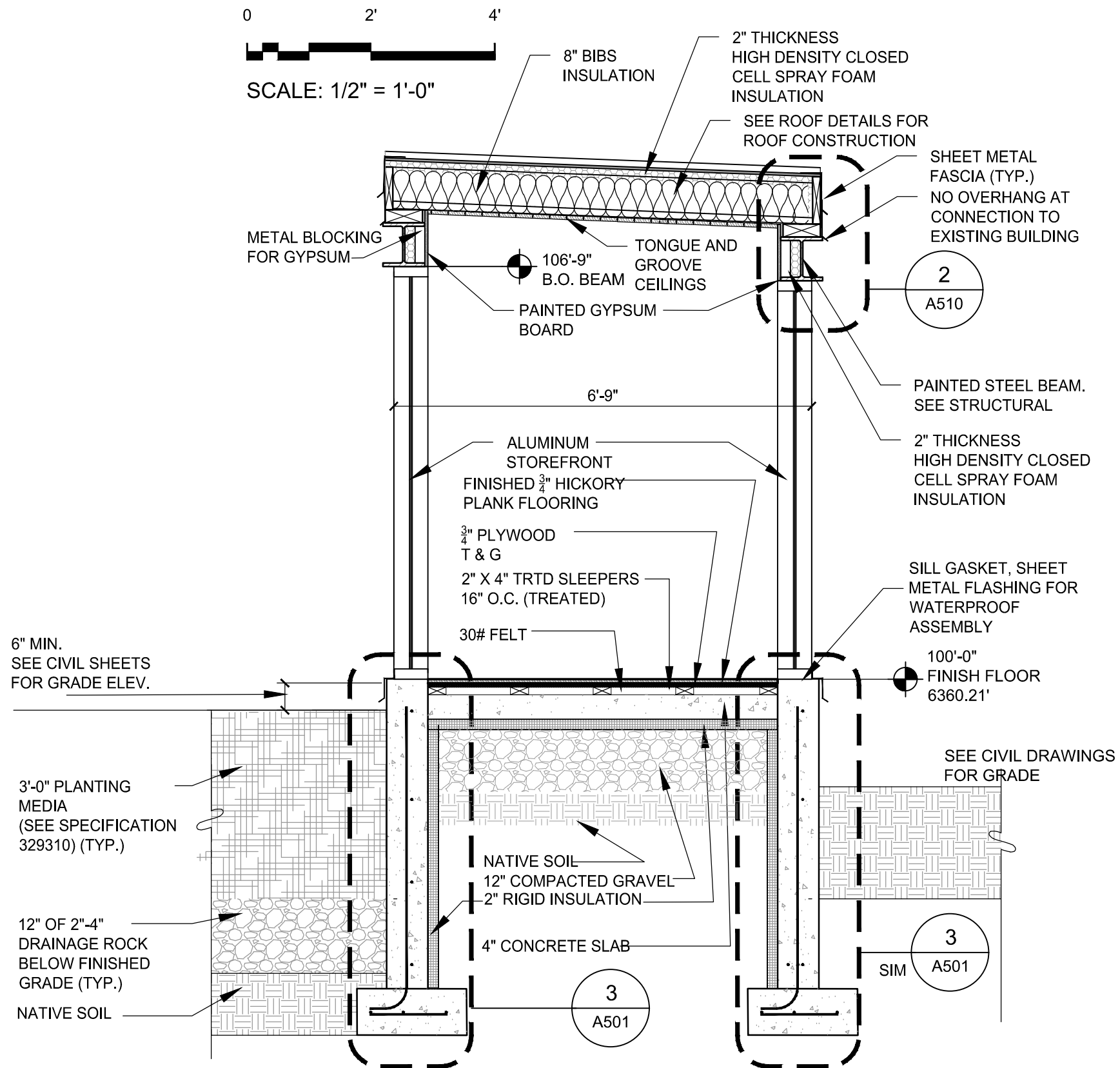
FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

WALL SECTIONS

DATE 11/16/2018	ARCHIVE NO.
DESIGNER C. LEWIS	DRAWING SHEET NO. A306
DRAWN SMHW	
CHECKED D. JEPPISEN	
PROJECT NO. 644	SHEET 40 OF 119

11/25/18 10:47 SHILLWORTHEN C:\USERS\SHILLWORTHEN\DESKTOP\ASHLEY\DWG\644.A304.5.6.7 BUILDING AND WALL SECTIONS.DWG



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



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Freel

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION

ASHLEY
NATIONAL FOREST

FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

WALL SECTIONS

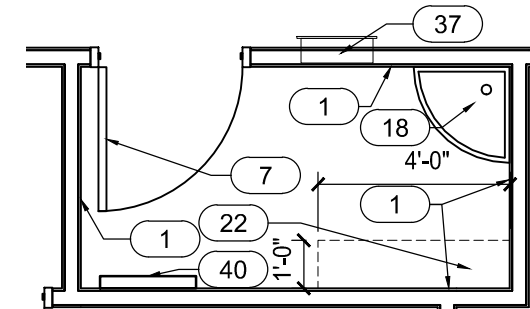
DATE 11/16/2018	ARCHIVE NO.
DESIGNER C. LEWIS	DRAWING SHEET NO. A307
DRAWN SMHW	
CHECKED D. JEPPISEN	
PROJECT NO. 644	SHEET 41 OF 119

KEYNOTES:

- FRP WALL PANEL to 48" W/ 6" RUBBER BASE. SEE FINISH SCHEDULE.
- SHOWER WITH CERAMIC TILE WALLS & FLOOR. SEE PLUMBING DRAWINGS. SEE A903 FOR ACCESSORIES
- FOLD DOWN PHENOLIC SHOWER SEAT. SEE A903 ACCESSORY SCHEDULE.
- CEILING AND FLOOR MOUNTED LAMINATE FACED TOILET PARTITION WALLS. SEE SPEC
- CERAMIC WALL TILE, SEE FINISH SCHEDULE. SEE INTERIOR ELEVATIONS FOR HEIGHT.
- COUNTER, SINK AND FAUCET. SEE PLUMBING DRAWINGS. SEE DETAILS 1/A511 AND 3/A511.
- FINISHED SOLID CORE WOOD DOOR AND HOLLOW METAL FRAME. SEE DOOR SCHEDULE.
- URINAL. SEE PLUMBING DRAWINGS AND SPEC.
- ALUMINUM CLAD WOOD WINDOWS. SEE WINDOW ELEVATIONS AND DETAILS.
- CERAMIC FLOOR TILE.
- STAINLESS STEEL ROBE HOOKS. SEE ACCESSORY SCHEDULE.
- TOILET. SEE PLUMBING DRAWINGS AND SPEC.
- TILE BACKER BOARD BEHIND CERAMIC ACCENT TILE.
- PAINTED 5/8" TYPE X GYP BOARD,
- DITRA SHOWER KIT, PAN OR EQ. SEE TILE SPEC.
- SOLID SURFACE COUNTERTOPS, P-LAM FACED WOOD CABINETRY. SEE DETAILS AND ELEVATIONS.
- PROVIDE 10# FIRE EXTINGUISHER. MOUNT BELOW COUNTER
- JANITOR FLOOR SINK. SEE PLUMBING DRAWINGS
- PROVIDE AND INSTALL REFRIGERATOR. SEE APPLIANCE SCHEDULE.
- SOLID SURFACE BENCH. SEE DETAILS ON SHEET 2/A512.
- STAINLESS STEEL SEMI-RECESSED PAPER TOWEL AND WASTE COMBINATION. SEE ACCESSORY SCHEDULE.
- INSTALL UTILITY SHELVING. SEE 4/A511.
- SURFACE MOUNTED AUTOMATIC HAND DRYER. SEE ACCESSORY SCHEDULE.
- 36" X 36" SURFACE MOUNTED MIRROR. SEE ACCESSORY SCHEDULE.
- STAINLESS STEEL GRAB BARS. SEE ACCESSORY SCHEDULE
- CARPET TILE FLOORING
- COUNTER MOUNTED SOAP DISPENSER. SEE ACCESSORY SCHEDULE.
- TOILET PAPER DISPENSER. SEE ACCESSORY SCHEDULE.
- SANITARY NAPKIN DISPOSAL UNIT. SEE ACCESSORY SCHEDULE.
- TOILET SEAT COVER DISPENSER. SEE ACCESSORY SCHEDULE.
- WATER RESIST GYP BOARD OVER FRAMING.
- STAINLESS STEEL ROD AND CURTAIN. SEE ACCESSORY SCHEDULE.
- PROVIDE/ INSTALL MICROWAVE. SEE APPLIANCE SCHEDULE
- ALUMINUM CLAD WOOD ENTRY DOOR, SIDELIGHT AND HARDWARE.
- ENTRY MAT. SEE FINISH FLOOR PLAN AND DETAILS.
- STAINED/SEALED CONCRETE FLOORING. SEE A901
- SEMI RECESSED FIRE EXTINGUISHER CABINET AND EXTINGUISHER
- DRINKING FOUNTAIN WITH WATER BOTTLE FILLER. SEE PLUMBING DRAWINGS.
- 24" X 48" SURFACE MOUNTED MIRROR. SEE ACCESSORY SCHEDULE A903
- MOP AND BROOM HOLDER. SEE ACCESSORY SCHEDULE A903

GENERAL NOTES:

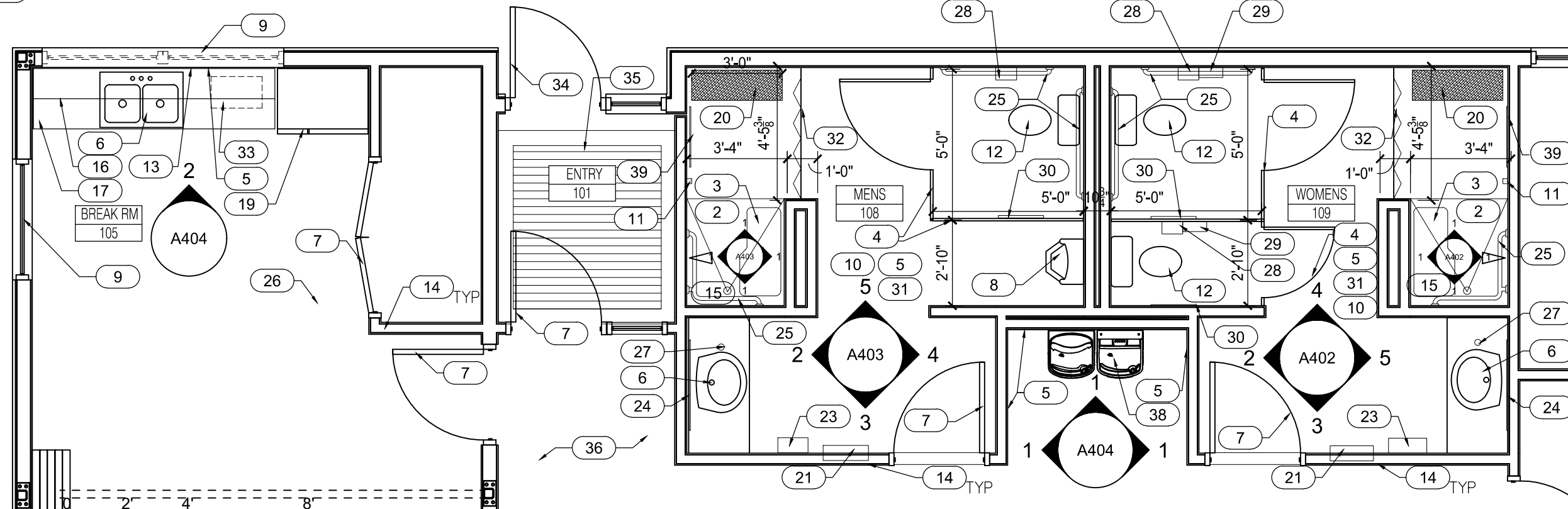
- SEE ADA/ABA GUIDELINES FOR ALL ACCESSIBILITY REQUIREMENTS.
- SEE CABINET ELEVATIONS AND DETAILS FOR DIMENSIONS THAT ARE NOT SHOWN ON THIS SHEET.
- SEE FINISH SCHEDULE, AND INTERIOR ELEVATIONS ON A402, A403, AND A404 FOR TILE LOCATIONS
- CONTRACTOR SHALL VERIFY AND FIELD MEASURE ALL AS-BUILT DIMENSIONS BEFORE ORDERING INSTALL ITEMS.
- SEE ACCESSORY SCHEDULE ON A903



1

CUSTODIAN ENLARGED PLAN

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



2

BREAKROOM, ENTRY, AND RESTROOMS ENLARGED PLAN

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



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Fred

NO.	REVISION / ISSUE	DATE
4	11/29/18	
3		
2		
1		

PROJECT NAME

FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION

ASHLEY
NATIONAL FOREST

FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

ENLARGED
FLOOR PLANS

DATE 11/16/2018	ARCHIVE NO.
DESIGNER C. LEWIS	DRAWING SHEET NO. A401
DRAWN SMHW	
CHECKED D. JEPPISEN	
PROJECT NO. 644	SHEET 42 OF 119

KEYNOTES:

- 1

ACCESSIBLE SHOWER WITH TILE WALLS AND FLOOR. SLOPE FLOOR TILE TO DRAIN. PROVIDE ACCESSIBLE SOLID SURFACE TRANSITION AT FLOOR WHERE SHOWER TILE MEETS FLOOR TILE. SEE PLUMBING DRAWINGS FOR FIXTURE AND PLUMBING INFO.
- 2

STAINLESS STEEL GRAB BARS. MOUNT AS SHOWN IN GA1.01 AND GA1.02
- 3

FOLD DOWN SHOWER SEAT. SEE PLUMBING DRAWINGS.
- 4

CEILING/FLOOR MOUNTED LAMINATE FACED TOILET PARTITIONS, SEE SPECS.
- 5

CERAMIC WALL TILE, SEE FINISH SCHEDULE.
- 6

COUNTER, SINK AND FAUCET. SEE PLUMBING DRAWINGS, DRAIN GUARD PER ACCESSORY SCHEDULE
- 7

SOLID CORE WOOD DOOR AND HOLLOW METAL FRAME. SEE DOOR SCHEDULE.
- 8

STAINLESS TOILET SEAT COVER DISPENSER.
- 9

DITRA, SCHLUTER SHOWER KIT OR EQ.. SEE SPEC.
- 10

STAINLESS STEEL ROBE HOOKS. SEE ACCESSORY SCHEDULE.
- 11

TOILET. SEE PLUMBING DRAWINGS.
- 12

FRAMING AND TILE BAKER BOARD BEHIND CERAMIC TILE. SEE WALL TYPES FOR LOACTIONS
- 13

PAINTED 5/8" TYPE X GYP BOARD/ GREEN BOARD
- 14

SOLID SURFACE BENCH. SEE DETAILS ON SHEET 2/A512.
- 15

STAINLESS STEEL SEMI-RECESSED PAPER TOWEL AND WASTE COMBO. SEE ACCESSORY SCHEDULE.
- 16

SURFACE MOUNTED AUTOMATIC HAND DRYER. SEE ACCESSORY SCHEDULE.

- 17

SURFACE MOUNTED MIRROR. SEE ACCESSORY SCHEDULE.
- 18

CERAMIC TILE ACCENT, 12" WIDE
- 19

SOAP DISPENSER. SEE ACCESSORY SCHEDULE.
- 20

TOILET PAPER DISPENSER. SEE ACCESSORY SCHEDULE.
- 21

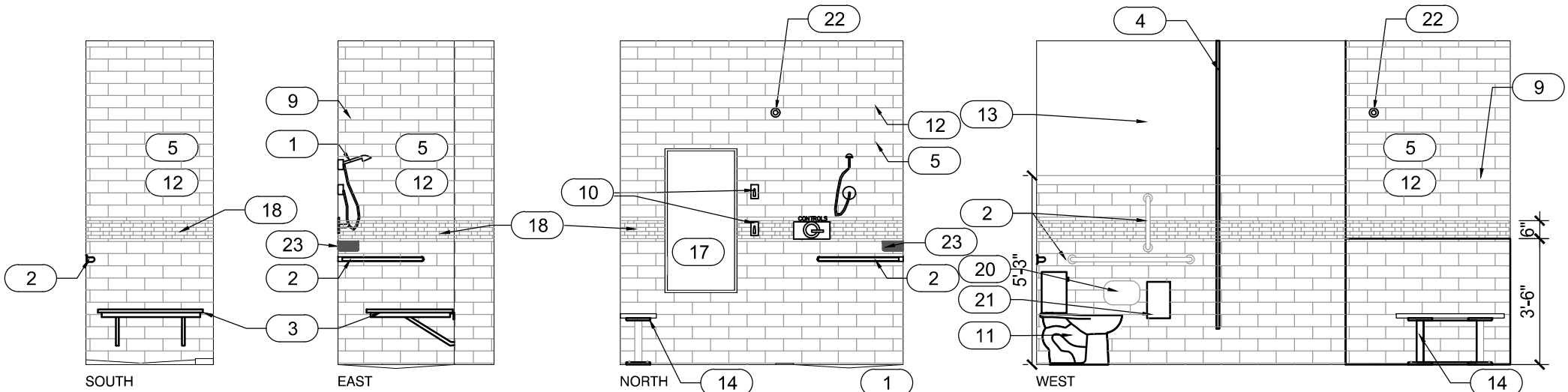
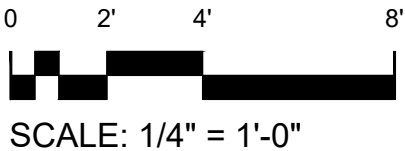
SANITARY NAPKIN DISPOSAL UNIT. SEE ACCESSORY SCHEDULE.
- 22

STAINLESS STEEL ROD, HOOKS AND CURTAIN. SEE ACCESSORY SCHEDULE.
- 23

STAINLESS SHOWER BASKET/ HOLDER, SEE ACCESSORY SCHEDULE

GENERAL NOTES:

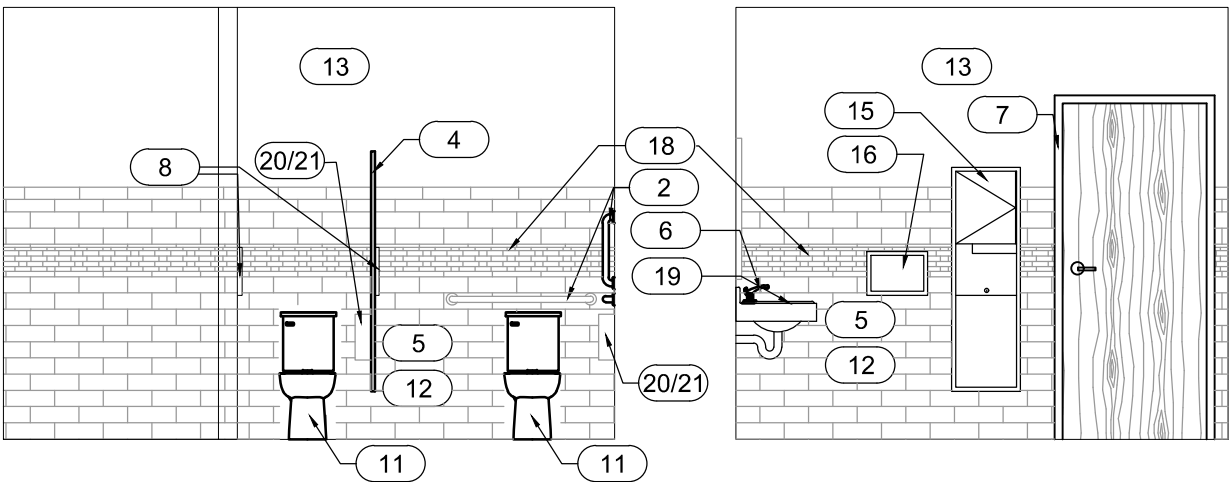
1. SEE GA1.01/GA1.02 FOR ALL ACCESSIBILITY REQUIREMENTS.
2. SEE CABINET ELEVATIONS AND DETAILS FOR DIMENSIONS THAT ARE NOT SHOWN ON THIS SHEET.
3. SEE FINISH SCHEDULE, AND INTERIOR ELEVATIONS ON A402, A403, AND A404 FOR TILE LOCATIONS
4. CONTRACTOR SHALL VERIFY AND FIELD MEASURE ALL AS-BUILT DIMENSIONS BEFORE ORDERING INSTALL ITEMS.
5. SEE ACCESSORY SCHEDULE ON A903



1

WOMENS SHOWER ELEVATIONS

SCALE 1/4" = 1'-0"



2

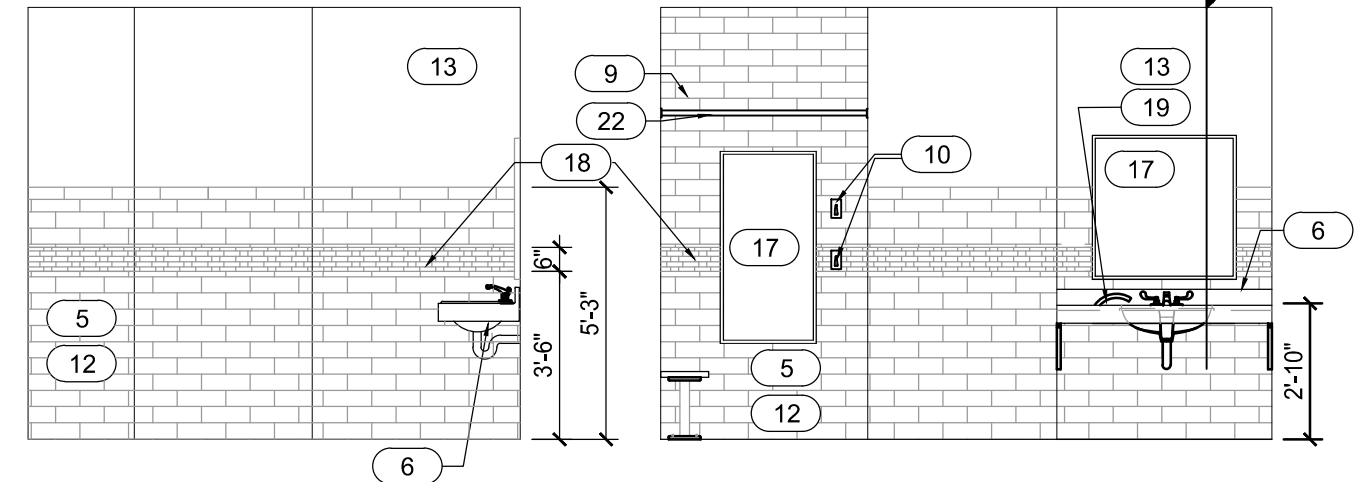
WOMENS SOUTH ELEVATION

SCALE 1/4" = 1'-0"

3

WOMENS EAST ELEVATION

SCALE 1/4" = 1'-0"



4

WOMENS WEST ELEVATION

SCALE 1/4" = 1'-0"

5

WOMENS NORTH ELEVATION

SCALE 1/4" = 1'-0"



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Friel

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION

ASHLEY
NATIONAL FOREST

FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

INTERIOR ELEVATIONS
WOMENS

DATE 11/16/2018	ARCHIVE NO.
DESIGNER C. LEWIS	DRAWING SHEET NO. A402
DRAWN SMHW	
CHECKED D. JEPSEN	
PROJECT NO. 644	SHEET 43 OF 119

KEYNOTES:

- 1

ACCESSIBLE SHOWER WITH TILE WALLS AND FLOOR. SLOPE FLOOR TILE TO DRAIN. PROVIDE ACCESSIBLE SOLID SURFACE TRANSITION AT FLOOR WHERE SHOWER TILE MEETS FLOOR TILE. SEE PLUMBING DRAWINGS FOR FIXTURE AND PLUMBING INFO.
- 2

STAINLESS STEEL GRAB BARS. MOUNT AS SHOWN IN GA1.01 AND GA1.02
- 3

FOLD DOWN SHOWER SEAT. SEE PLUMBING DRAWINGS.
- 4

CEILING/FLOOR MOUNTED LAMINATE FACED TOILET PARTITIONS, SEE SPECS.
- 5

CERAMIC WALL TILE, SEE FINISH SCHEDULE.
- 6

COUNTER, SINK AND FAUCET. SEE PLUMBING DRAWINGS. DRAIN GUARD PER ACCESSORY SCHEDULE
- 7

SOLID CORE WOOD DOOR AND HOLLOW METAL FRAME. SEE DOOR SCHEDULE.
- 8

URINAL, SEE PLUMBING DRAWINGS. MOUNT AS PER ADA GUIDELINES.
- 9

DITRA, SCHLUTER SHOWER KIT OR EQUAL SEE TILE SPEC.
- 10

STAINLESS STEEL ROBE HOOKS. SEE ACCESSORY SCHEDULE.
- 11

TOILET. SEE PLUMBING DRAWINGS.
- 12

FRAMING AND TILE BAKER BOARD BEHIND CERAMIC TILE. SEE WALL TYPES FOR LOACTIONS
- 13

PAINTED 5/8" TYPE X GYP BOARD/ GREEN BOARD
- 14

SOLID SURFACE BENCH. SEE DETAILS ON SHEET 2/A512.
- 15

STAINLESS STEEL SEMI-RECESSED PAPER TOWEL AND WASTE COMBO. SEE ACCESSORY SCHEDULE.

- 16

SURFACE MOUNTED AUTOMATIC HAND DRYER. SI ACCESSORY SCHEDULE.
- 17

SURFACE MOUNTED MIRROR. SEE ACCESSORY SCHEDULE.
- 18

CERAMIC TILE ACCENT, 12" WIDE
- 19

SOAP DISPENSER. SEE ACCESSORY SCHEDULE.
- 20

TOILET PAPER DISPENSER. SEE ACCESSORY SCHEDULE.
- 21

SANITARY NAPKIN DISPOSAL UNIT. SEE ACCESSORY SCHEDULE.
- 22

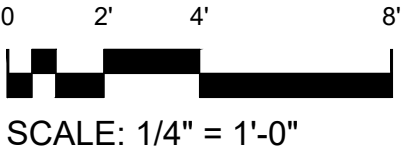
STAINLESS STEEL ROD, HOOKS AND CURTAIN. SEI ACCESSORY SCHEDULE.
- 23

STAINLESS SHOWER BASKET/ HOLDER, SEE ACCESSORY SCHEDULE
- 24

STAINLESS TOILET SEAT COVER DISPENSER.

GENERAL NOTES:

1. SEE GA1.01 AND GA1.02 FOR ACCESSIBILITY REQUIREMENTS.
2. SEE CABINET ELEVATIONS AND DETAILS FOR DIMENSIONS THAT ARE NOT SHOWN ON THIS SHEET.
3. SEE FINISH SCHEDULE, AND INTERIOR ELEVATIONS ON A402, A403, AND A404 FOR TILE LOCATIONS
4. CONTRACTOR SHALL VERIFY AND FIELD MEASURE ALL AS-BUILT DIMENSIONS BEFORE ORDERING INSTALL ITEMS.
5. SEE ACCESSORY SCHEDULE ON A903



USDA

FOREST SERVICE

UNITED STATES DEPARTMENT OF AGRICULTURE

United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Fred

11/29/18

NO.

REVISION / ISSUE

DATE

PROJECT NAME

FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION

ASHLEY
NATIONAL FOREST

FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

INTERIOR ELEVATIONS
MENS

DATE
11/16/2018

ARCHIVE NO.

DESIGNER
C. LEWIS

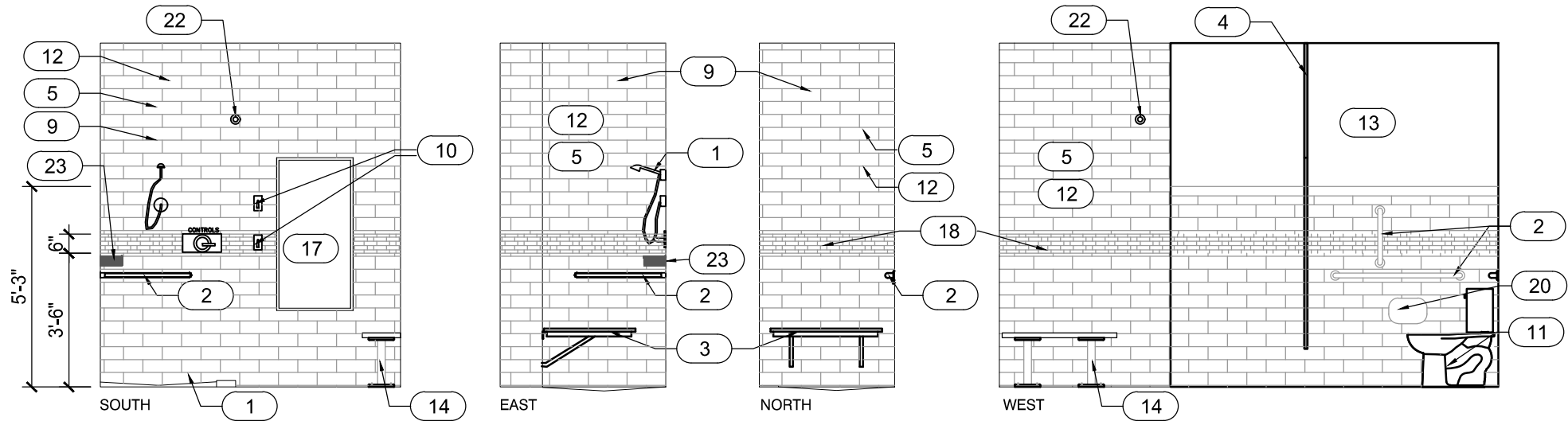
DRAWN
SMHW

CHECKED
D. JEPPISEN

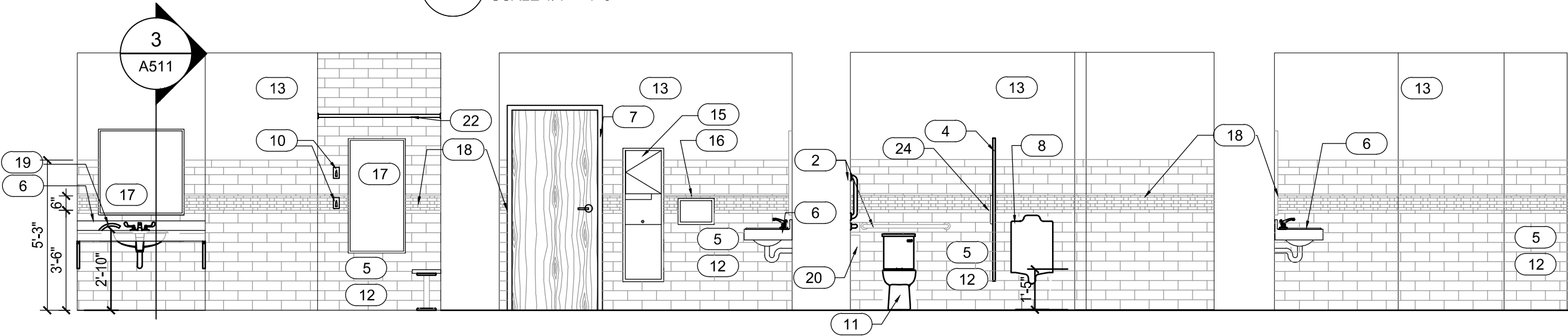
PROJECT NO.
644

DRAWING SHEET NO.
A403

SHEET 44 OF 119



1 MENS SHOWER ELEVATIONS
SCALE 1/4" = 1'-0"



2 MENS SOUTH ELEVATION
SCALE 1/4" = 1'-0"

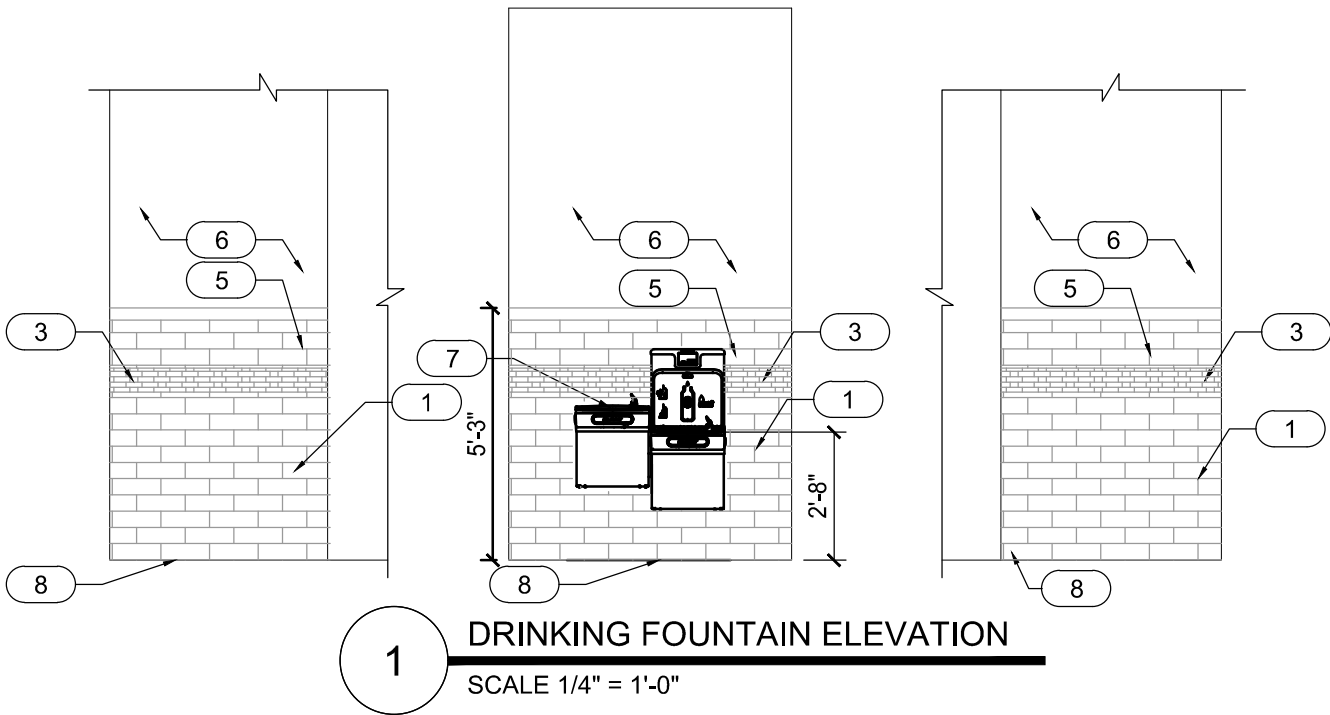
3 MENS EAST ELEVATION
SCALE 1/4" = 1'-0"

4 MENS NORTH ELEVATION
SCALE 1/4" = 1'-0"

5 MENS WEST ELEVATION
SCALE 1/4" = 1'-0"

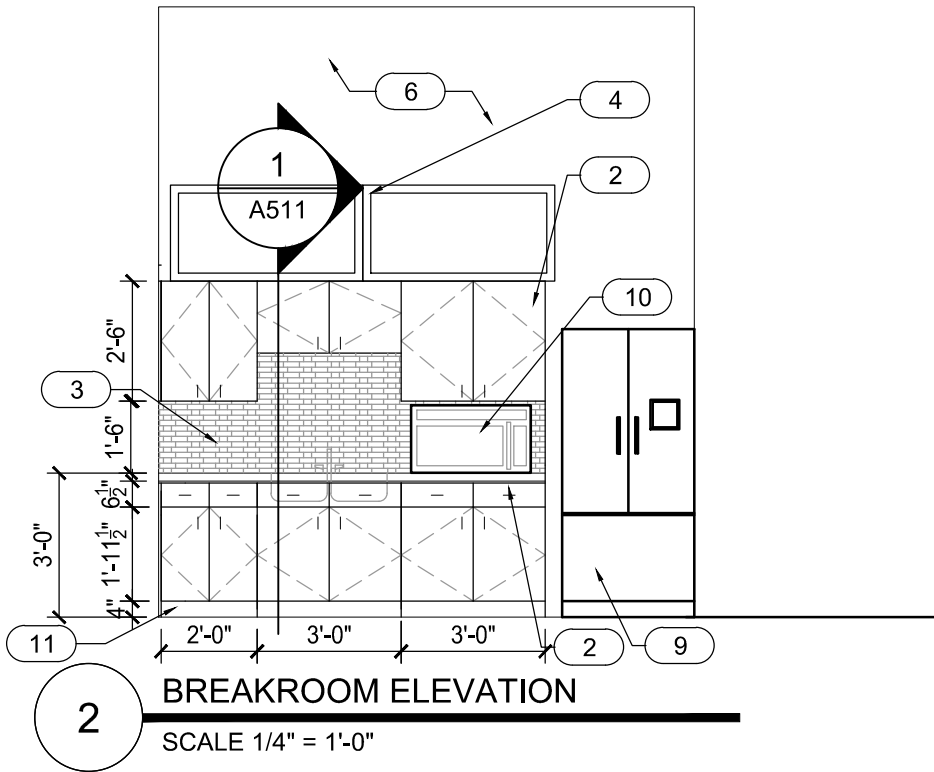
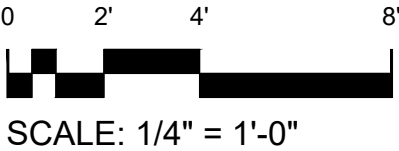
KEYNOTES:

- 1 CERAMIC WALL TILE, SEE FINISH SCHEDULE.
- 2 BREAKROOM SOLID SURFACE COUNTERTOP, LAMINATE COVERED WOOD CABINETS, SINK AND FAUCET. SEE PLUMBING DRAWINGS. SEE DETAIL 1/A511. CONTRACTOR TO PROVIDE SHOP DRAWINGS.
- 3 CERAMIC ACCENT TILE OVER BACKER BOARD
- 4 ALUMINUM CLAD WOOD WINDOWS. SEE WINDOW ELEVATIONS. SEE WINDOW DETAILS.
- 5 TILE BOARD BEHIND ALL CERAMIC WALL TILE
- 6 PAINTED 5/8" TYPE X GYP BOARD,
- 7 DRINKING FOUNTAIN WITH WATER BOTTLE FILLER. SEE PLUMBING DRAWINGS.
- 8 COVED CERAMIC WALL BASE. SEE A901
- 9 PROVIDE AND INSTALL REFRIGERATOR SEE APPLIANCE SCHEDULE, A903.
- 10 PROVIDE AND INSTALL MICROWAVE. SEE APPLIANCE SCHEDULE, A903
- 11 RUBBER BASE AND CARPET. SEE FINISH SCHEDULE



GENERAL NOTES:

1. SEE SHEET G001 - G002 FOR GENERAL NOTES.
2. SEE G2 SHEET FOR DRAWING INDEX.
3. SEE ADA/ABA GUIDELINES FOR ALL ACCESSIBILITY REQUIREMENTS.
4. SEE CABINET ELEVATIONS AND DETAILS FOR DIMENSIONS THAT ARE NOT SHOWN ON THIS SHEET.
5. SEE FINISHING SCHEDULE, AND INTERIOR ELEVATIONS ON A402, AND A403 FOR TILE LOCATIONS
6. CONTRACTOR SHALL VERIFY AND FIELD MEASURE ALL AS-BUILT DIMENSIONS BEFORE ORDERING INSTALL ITEMS
7. SEE ACCESSORY SCHEDULE ON A903



USDA

FOREST SERVICE

U.S. DEPARTMENT OF AGRICULTURE

United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS		
s/s Regina Fred		
4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION

ASHLEY
NATIONAL FOREST

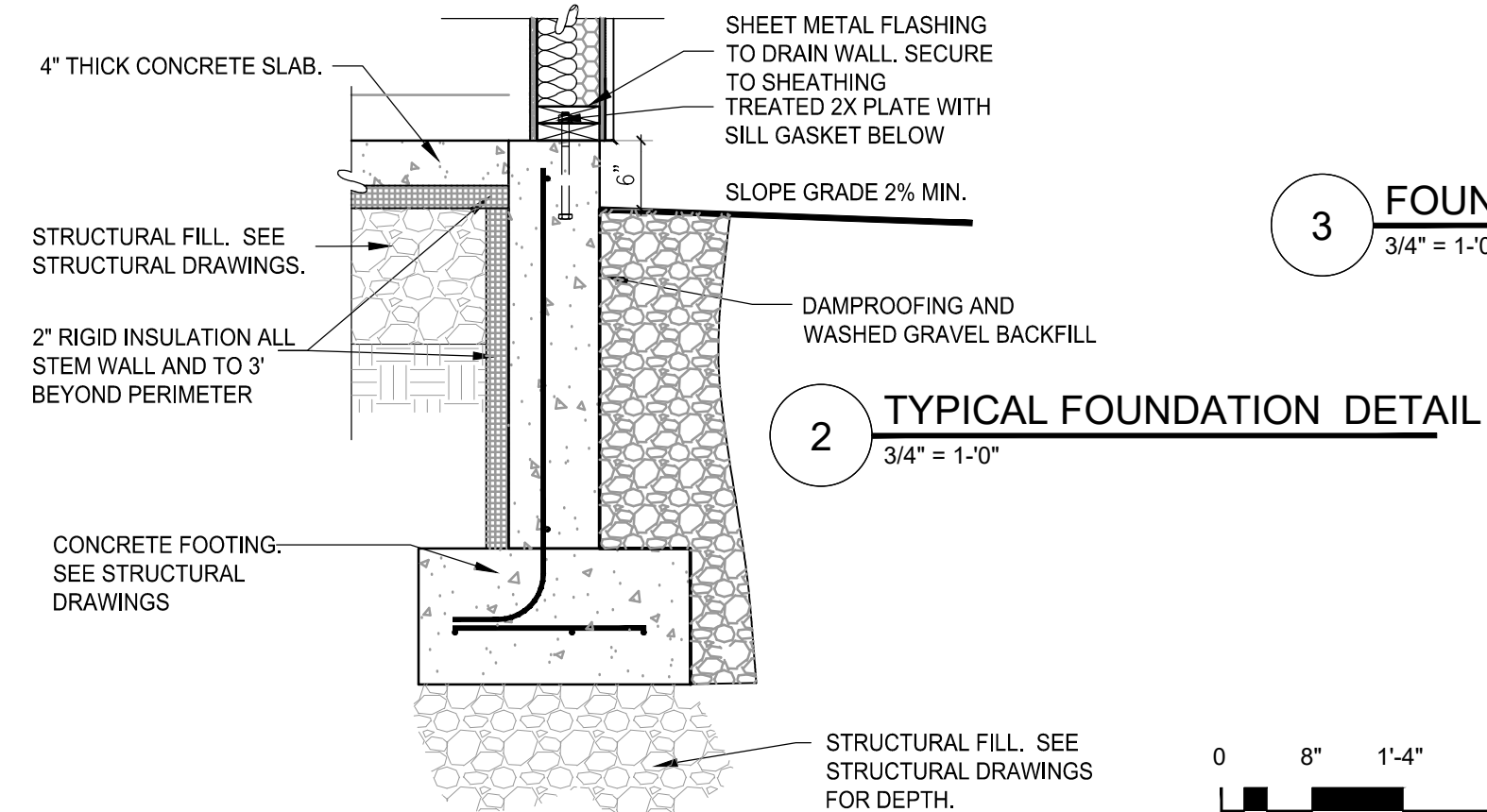
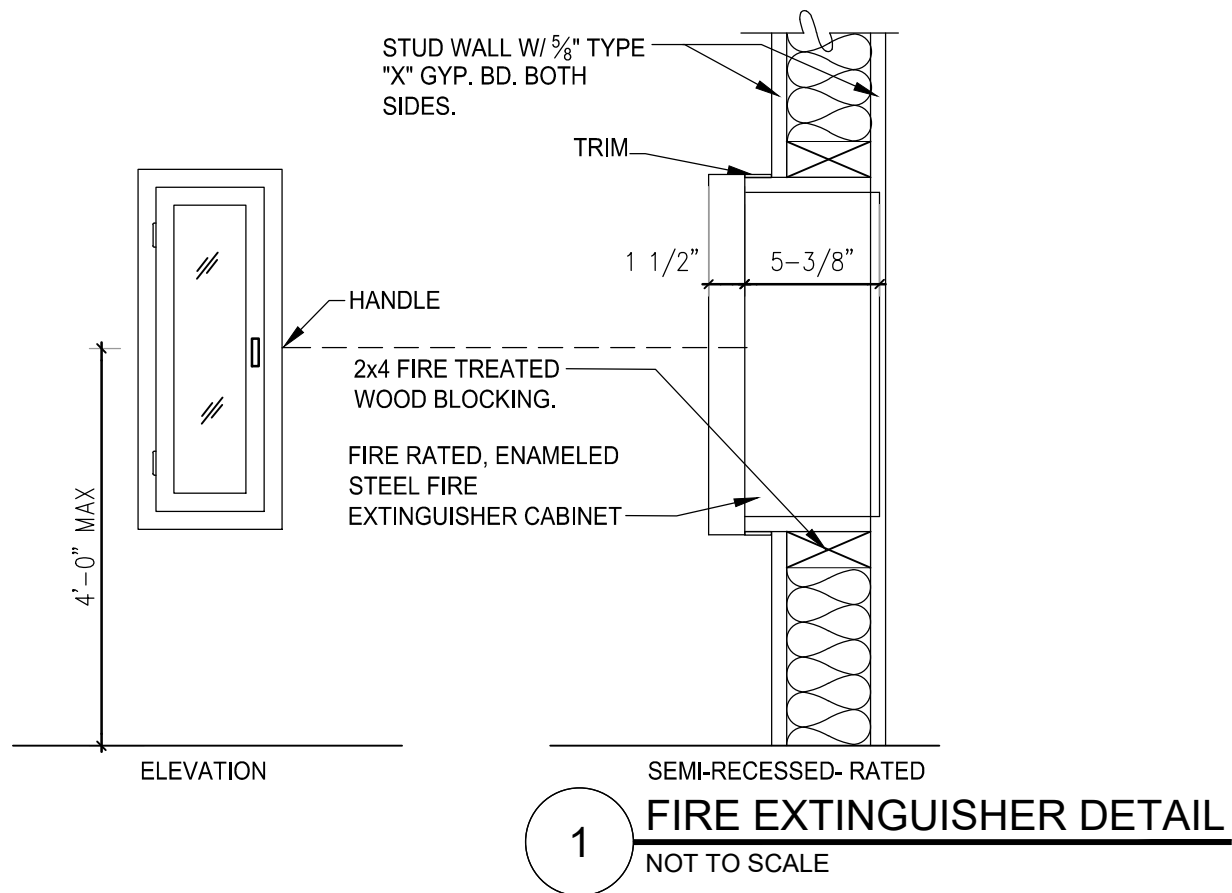
FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

INTERIOR ELEVATIONS

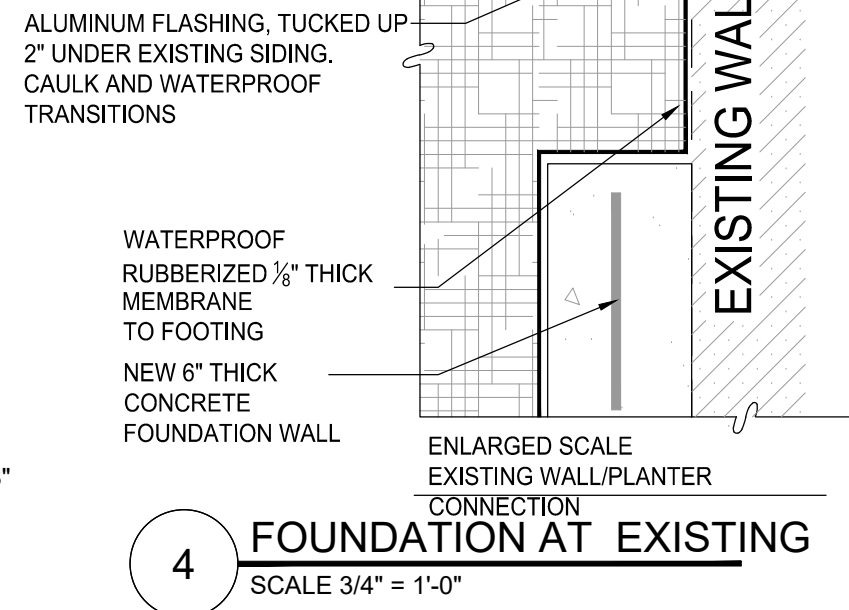
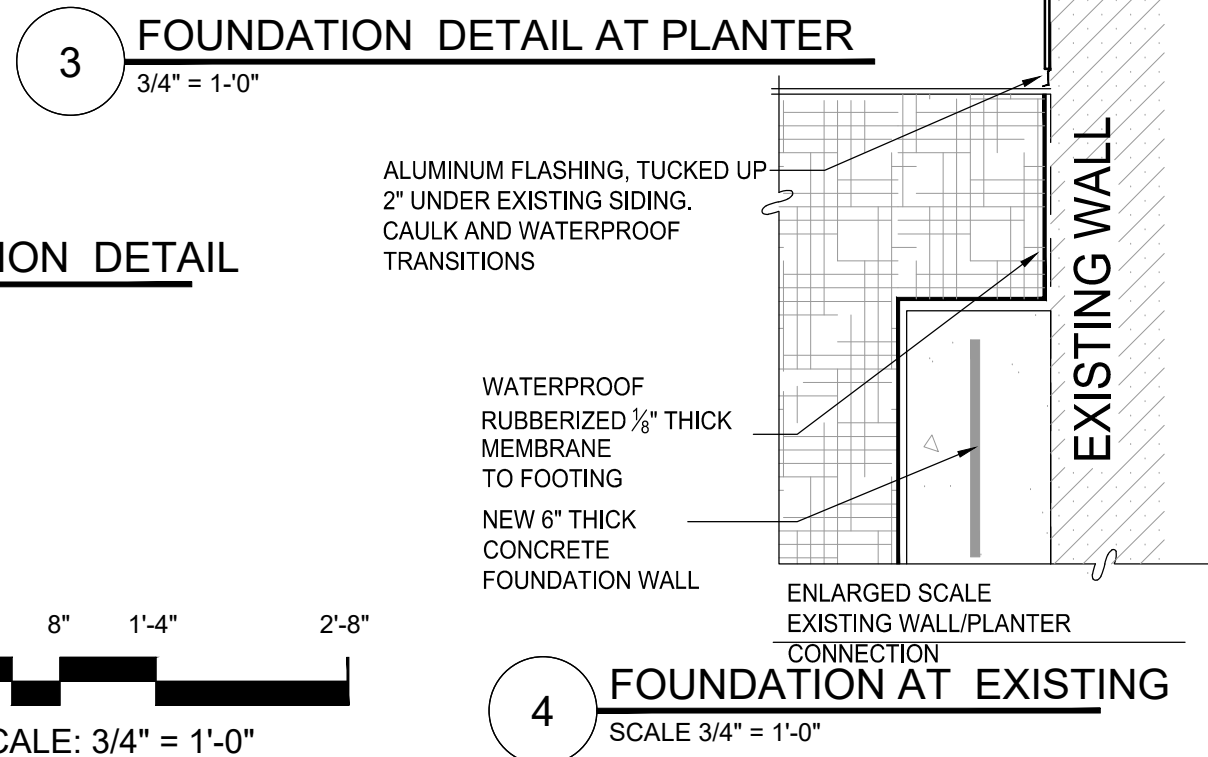
DATE 11/16/2018	ARCHIVE NO.
DESIGNER C. LEWIS	DRAWING SHEET NO. A404
DRAWN SMHW	
CHECKED D. JEPPISEN	SHEET 45 OF 119
PROJECT NO. 644	

11/26/18 08:21 SHILLWORTHEN X:ASHLEY\FLAMINGGORGERANGERDISTRICT ADDITION 2017DWG\644.A501 ARCHITECTURALDETAILS.DWG.



0 8" 1'-4" 2'-8"

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



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Feel

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

**FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION**

**ASHLEY
NATIONAL FOREST**

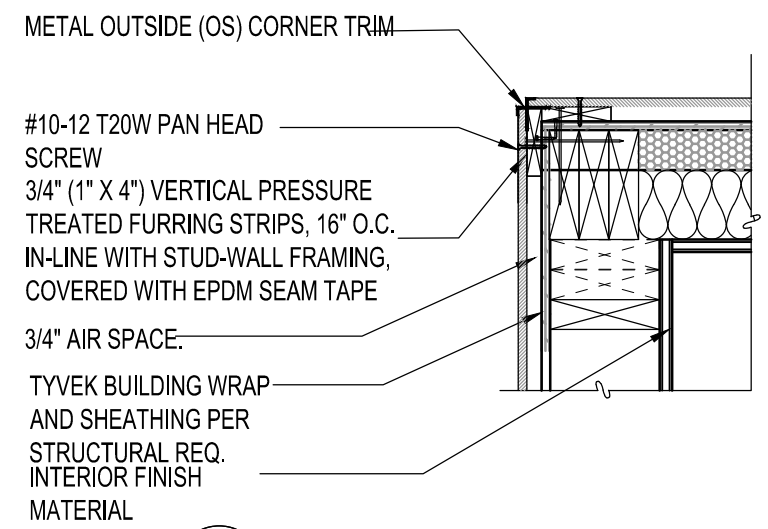
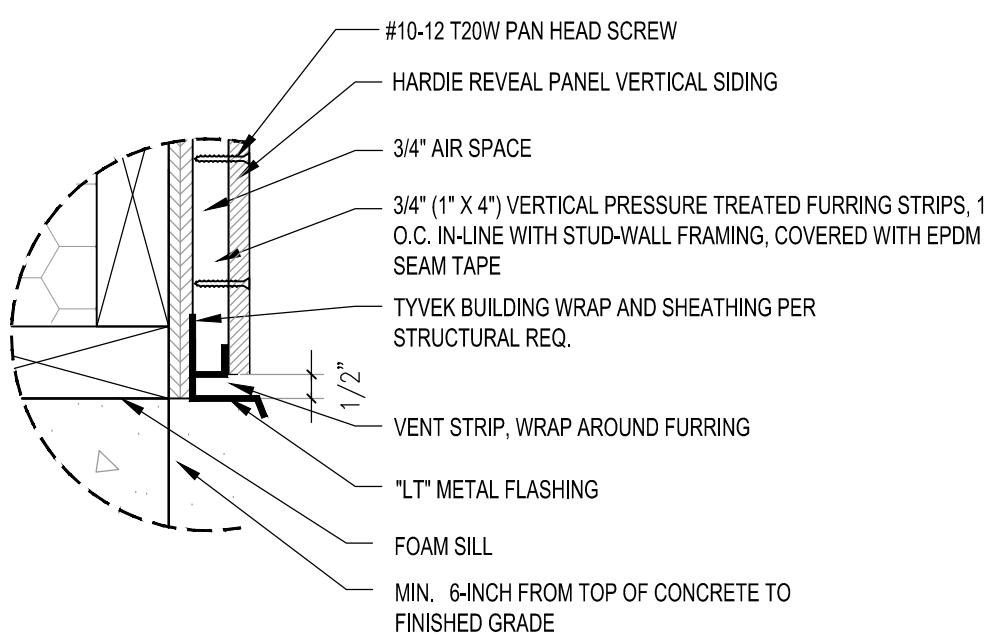
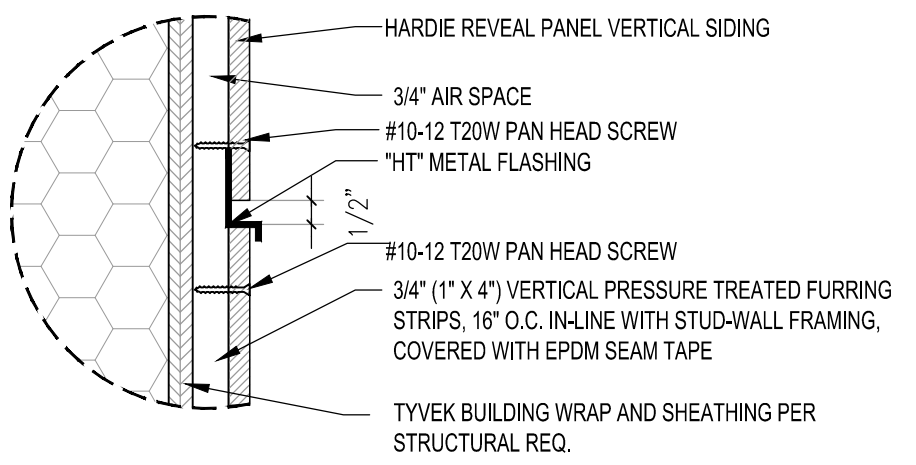
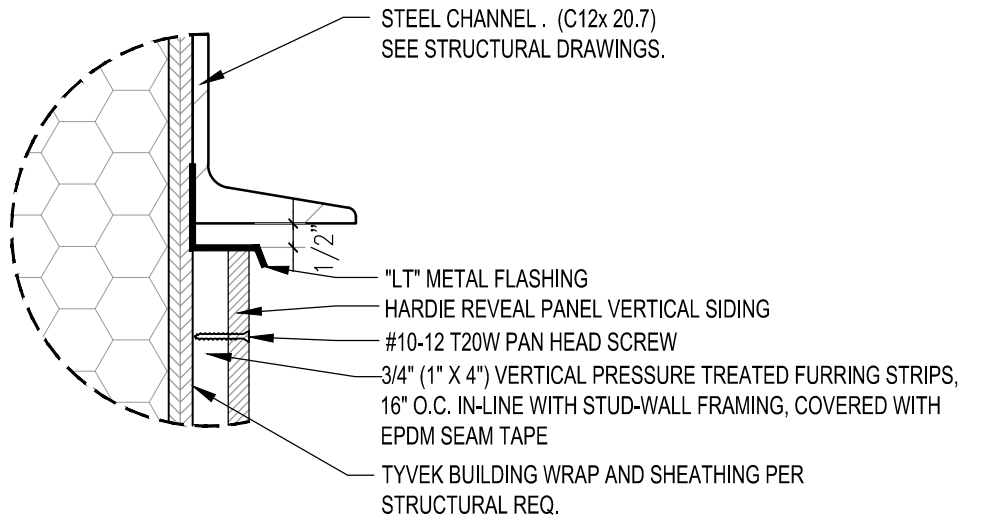
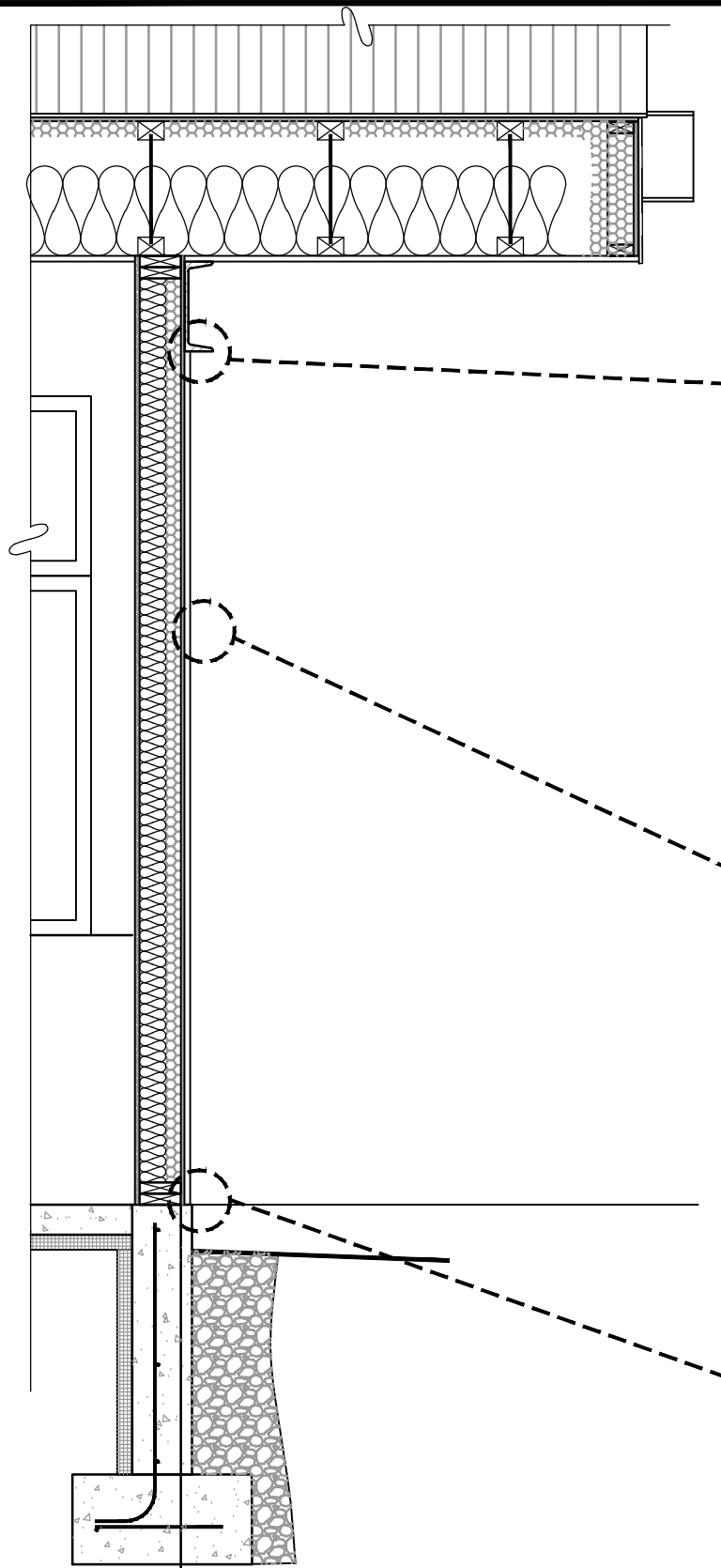
FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

ARCHITECTURAL DETAILS

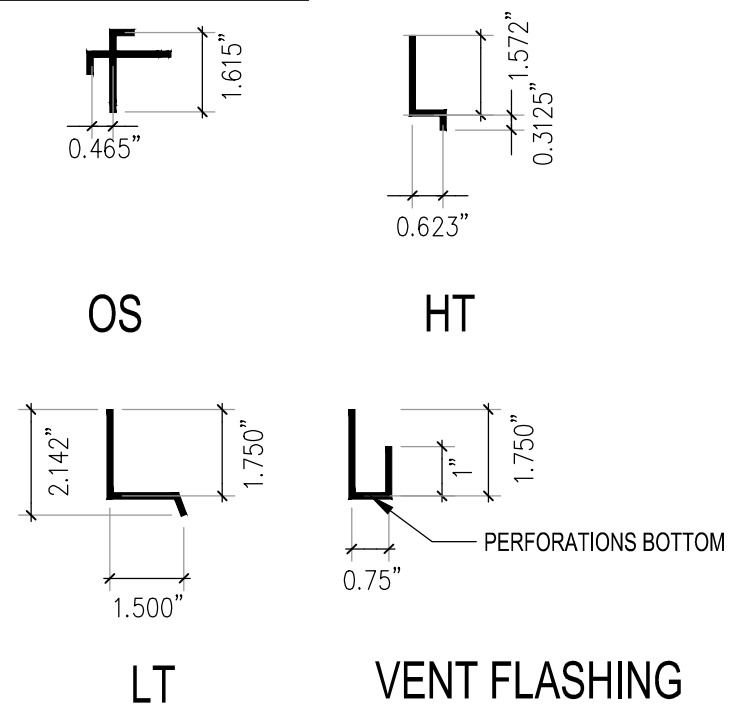
DATE 11/16/2018	ARCHIVE NO.
DESIGNER C. LEWIS	DRAWING SHEET NO. A501
DRAWN SMHW	
CHECKED D. JEPPESEN	
PROJECT NO. 644	SHEET 46 OF 119


11/16/18 17:15 SHILLWORTHEN X:ASHLEY\FLAMINGGORGERANGERDISTRICT ADDITION 2017DWG\644.A502 ARCHITECTURAL DETAILS.DWG



2 CLADDING CORNER DETAIL
NO SCALE

TRIM PROFILES: NTS





United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Freed

NO.	REVISION / ISSUE	DATE
4	11/29/18	
3		
2		
1		

PROJECT NAME

**FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION**

**ASHLEY
NATIONAL FOREST**

FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

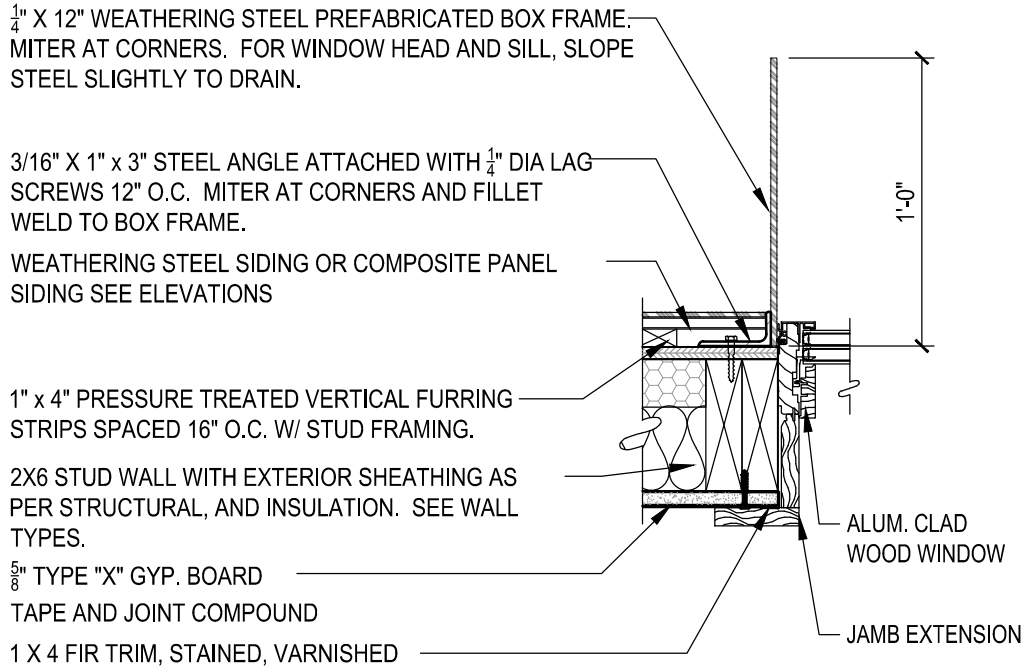
ARCHITECTURAL DETAILS

DATE	ARCHIVE NO.
11/16/2018	

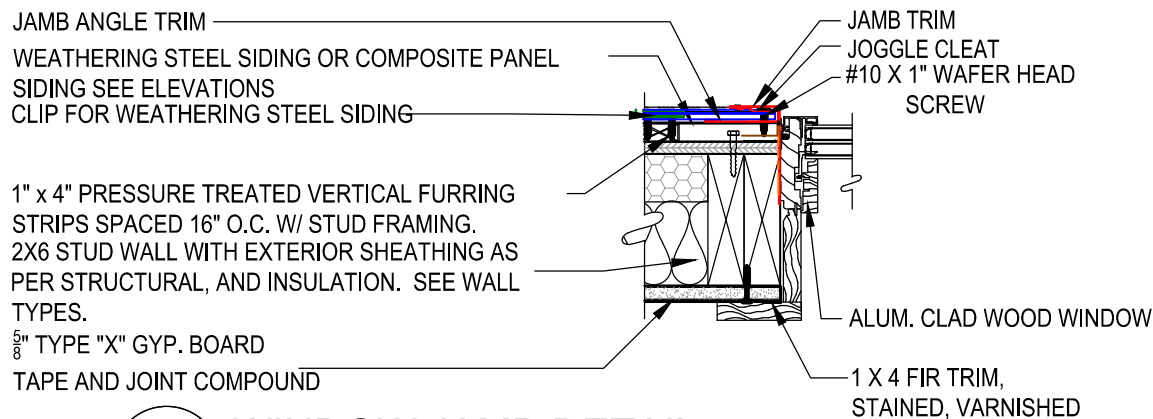
DESIGNER	DRAWING SHEET NO.
C. LEWIS	A502

DRAWN	CHECKED
SMHW	D. JEPPISEN

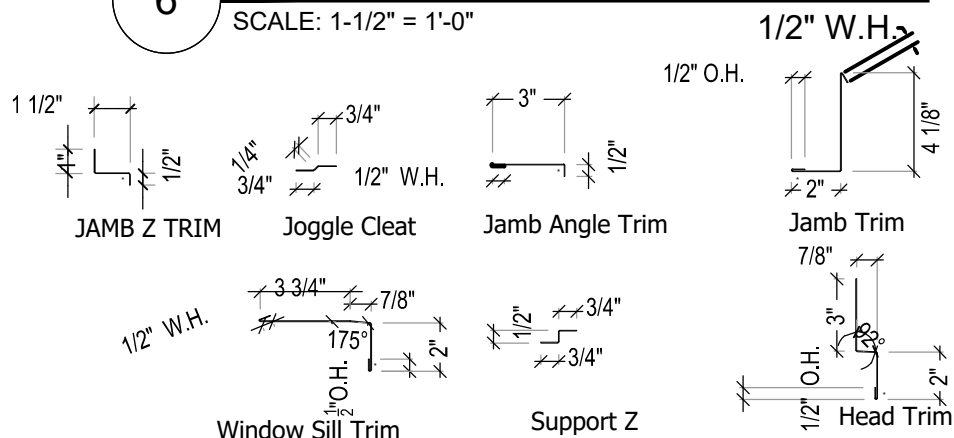
PROJECT NO.	SHEET 47 OF 119
644	



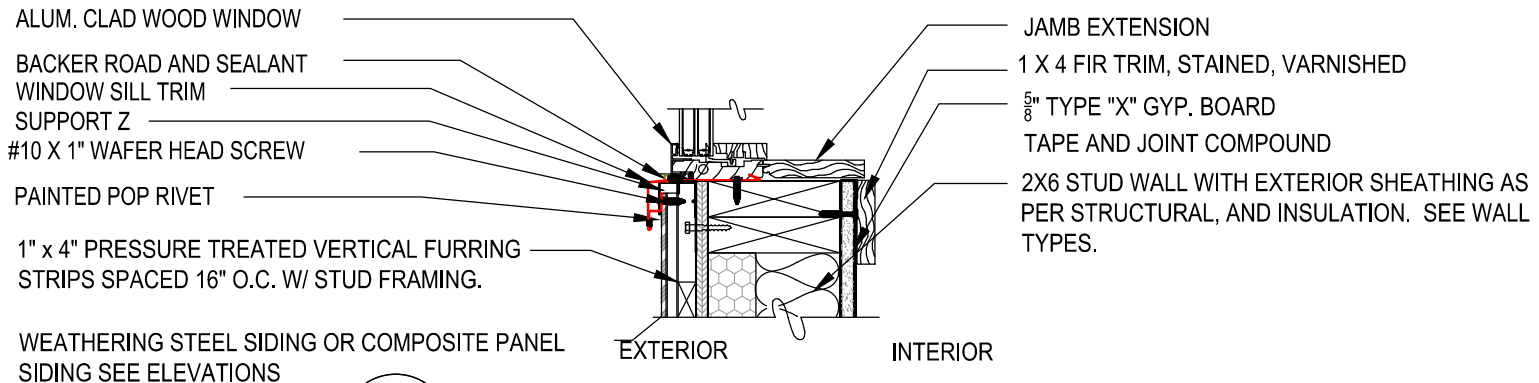
5 BOX WINDOW JAMB/SILL/HEAD DETAIL
SCALE: 1-1/2" = 1'-0"



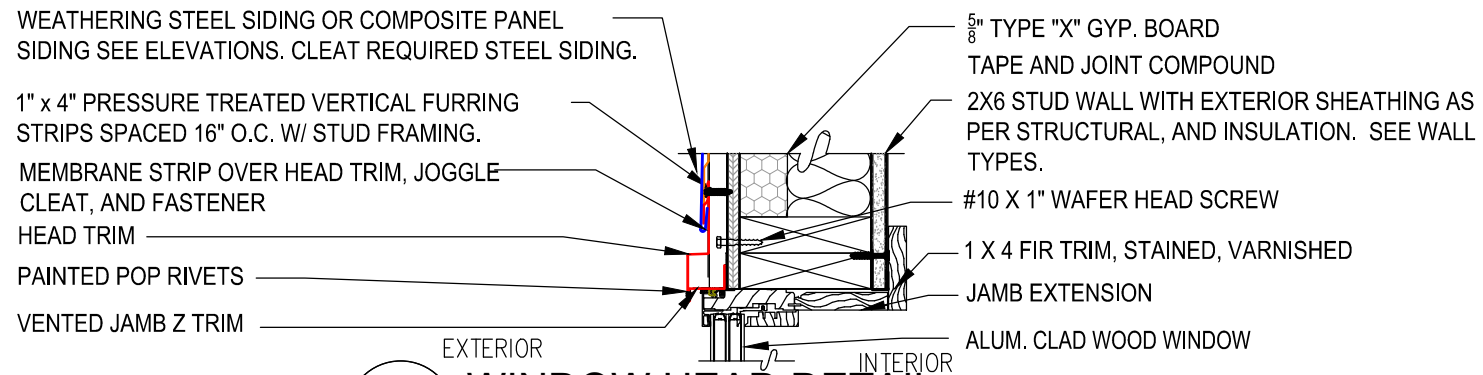
6 WINDOW JAMB DETAIL
SCALE: 1-1/2" = 1'-0"



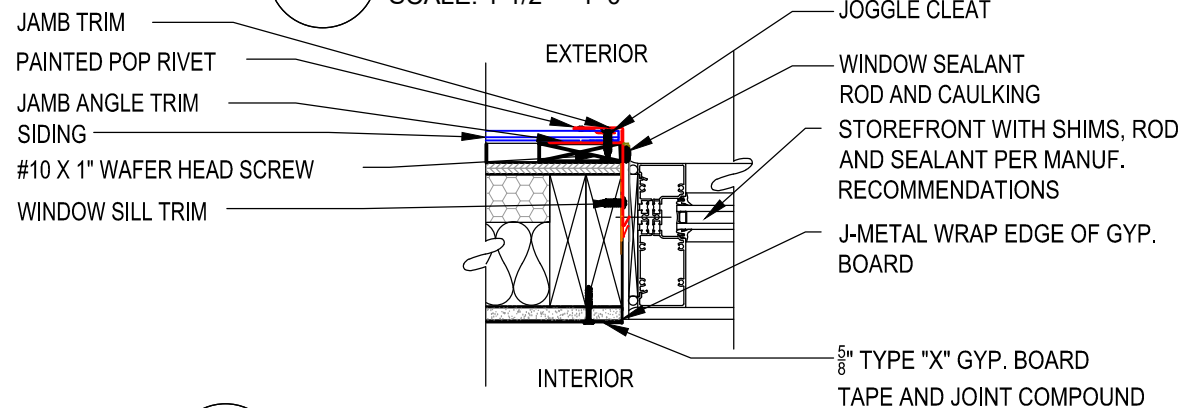
TRIM DETAILS
NO SCALE



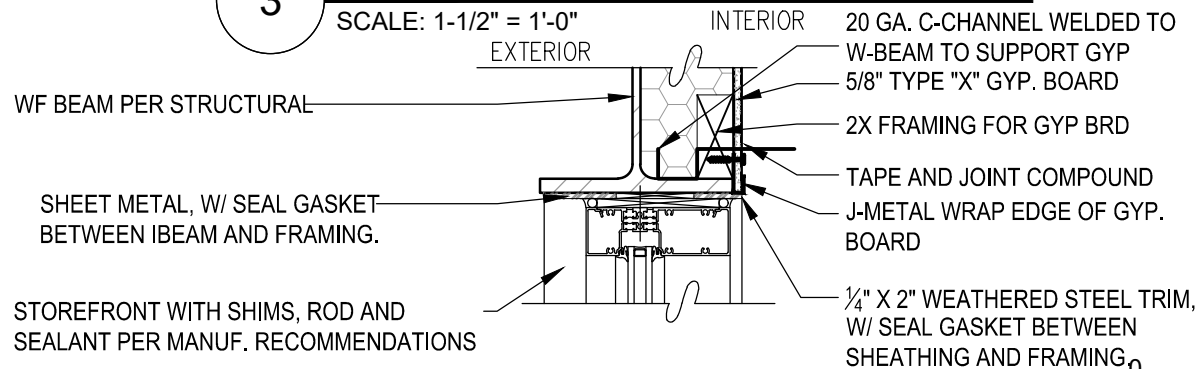
1 WINDOW SILL
SCALE: 1-1/2" = 1'-0"



2 WINDOW HEAD DETAIL
SCALE: 1-1/2" = 1'-0"



3 STOREFRONT JAMB DETAIL
SCALE: 1-1/2" = 1'-0"



4 STOREFRONT HEAD DETAIL
SCALE: 1-1/2" = 1'-0"



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Fred

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

**FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION**

**ASHLEY
NATIONAL FOREST**

FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

WINDOW DETAILS

DATE 11/16/2018	ARCHIVE NO.
DESIGNER C. LEWIS	DRAWING SHEET NO. A504
DRAWN SMHW	
CHECKED D. JEPPESEN	
PROJECT NO. 644	SHEET 48 OF 119

2X6 STUD WALL WITH EXTERIOR SHEATHING AS PER STRUCTURAL, BUILDING WRAP, AND INSULATION. SEE WALL TYPES.

5/8" TYPE "X" GYP. BOARD

1 X 4 FIR TRIM,
STAINED, VARNISHED
TAPE AND JOINT COMPOUND

1" X 4" PRESSURE TREATED
VERTICAL FURRING STRIPS SPACE
16" O.C. W/ STUD FRAMING.
SEAM TAPE.

WEATHERED STEEL SIDING
#10 X 1" WAFER HEAD SCREW
MEMBRANE STRIP OVER HEAD
TRIM, JOGGLE CLEAT, AND
FASTENER
HEAD TRIM
PAINTED POP RIVETS
VENTED JAMB Z TRIM

ALUM. CLAD WOOD DOOR

8

DOOR HEAD DETAIL

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

WEATHERED STEEL
SIDING OR COMPOSITE
SIDING
CLIP

JAMB ANGLE TRIM

PAINTED POP RIVET
JAMB TRIM

#10 X 1" WAFER HEAD
SCREW

1" x 4" PRESSURE TREATED VERTICAL FURRING
STRIPS SPACED 16" O.C. W/ STUD FRAMING.

2X6 STUD WALL WITH EXTERIOR SHEATHING AS
PER STRUCTURAL, TYVEK, AND INSULATION. SEE
WALL TYPES.

5/8" TYPE "X" GYP. BOARD

TAPE AND JOINT COMPOUND

1 X 4 FIR TRIM,
STAINED, VARNISHED

ALUM. CLAD
WOOD DOOR

9

DOOR JAMB DETAIL

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

STOREFRONT WITH
SHIMS, ROD AND SEALANT
PER MANUF.
RECOMMENDATIONS

5

INTERIOR SILL DETAIL

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

5/8" GYP. BD. TAPE, SAND,
PAINT TYP. SEE FINISH
SCHEDULE.

SOUND ATTENUATION BLANKETS
FULL HEIGHT OF WALL. SEE WALL
TYPES.

2x WOOD STUD TRIMMER
SEE WALL TYPES.
SEALANT, BOTH SIDES.

STOREFRONT WITH SHIMS
GLAZING.

6

INTERIOR JAMB/HEAD DETAIL

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

5 PLY WOOD DOOR. SEE DOOR
TYPES.

HOLLOW METAL DOOR FRAME.
SEE DOOR SCHEDULE. (3) FRAME
ACHORS @ EA. JAMB

SEALANT, BOTH
SIDES.
WOOD STUD FRAMING. SEE
WALL TYPES.

SOUND ATTENUATION
BLANKETS FULL HEIGHT OF
WALL. SEE WALL TYPES.

GYP. BD. TAPE, SAND, PAINT
?. SEE FINISH SCHEDULE.

7

INTERIOR DOOR JAMB/HEAD DETAIL

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

STOREFRONT WITH
SHIMS, ROD AND SEALANT
PER MANUF.
RECOMMENDATIONS

CONCRETE SLAB
ON GRADE

1

STOREFRONT OUTSIDE CORNER JAMB DETAIL

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

STOREFRONT WITH
SHIMS, ROD AND SILL
GASKET SEALANT PER
MANUF.
RECOMMENDATIONS

2

STOREFRONT SILL DETAIL

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

STOREFRONT WITH
SHIMS, ROD AND SEALANT
PER MANUF.
RECOMMENDATIONS

3

STOREFRONT INSIDE CORNER JAMB DETAIL

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

ALUM. CLAD STEEL
COLUMN

STOREFRONT WITH
SHIMS, ROD AND SEALANT
PER MANUF.
RECOMMENDATIONS

NEW GYP BRD WALL
COVERING ALL INTERIOR
WALL

4

STOREFRONT TIE INTO EXISTING BUILDING JAMB DETAIL

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

STEEL COLUMN
SEE STRUCTURAL

2X FRAMING AND
ALUM. CLADDING TO
MATCH
STOREFRONT

CONCRETE
FOUNDATION

METAL FLASHING
EXTEND 4" DOWN
CONCRETE WALL

STEEL COLUMN
SEE STRUCTURAL

OFFSET FRAMING
AND ALUM.
CLADDING TO MATCH
STOREFRONT

1" X 4" TRIM BOARD
EACH SIDE OF
STOREFRONT.
CAULK EACH SIDE
EXISTING
COMPOSITE SIDING

EXISTING STUD
WALL, SHEATHING
AND INSULATION



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Fred

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION

ASHLEY
NATIONAL FOREST

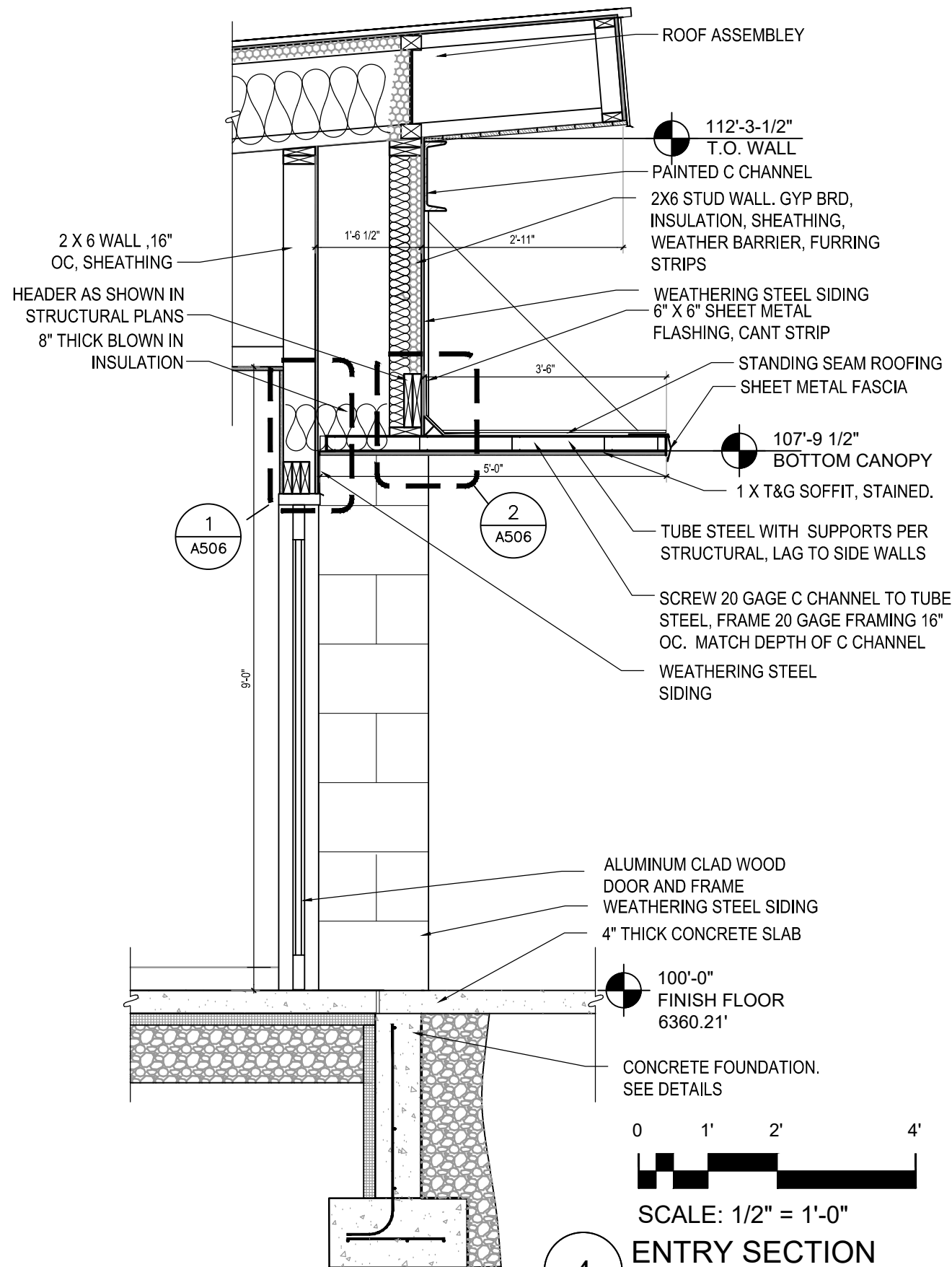
FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

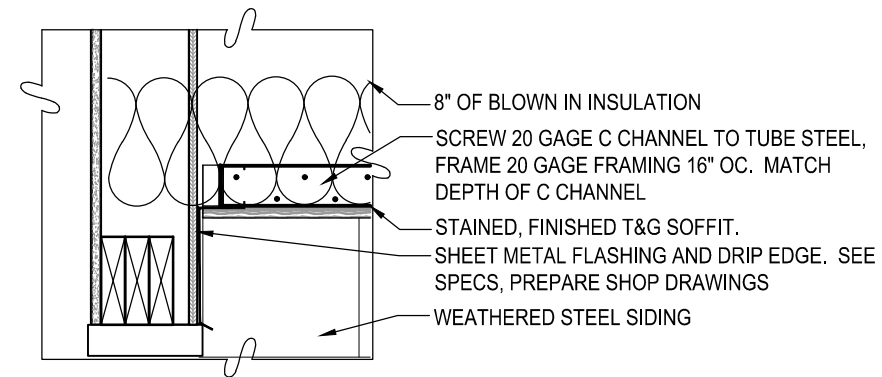
WINDOW DETAILS
DOOR DETAILS

DATE 11/16/2018	ARCHIVE NO.
DESIGNER C. LEWIS	DRAWING SHEET NO. A505
DRAWN SMHW	
CHECKED D. JEPPSEN	
PROJECT NO. 644	SHEET 49 OF 119

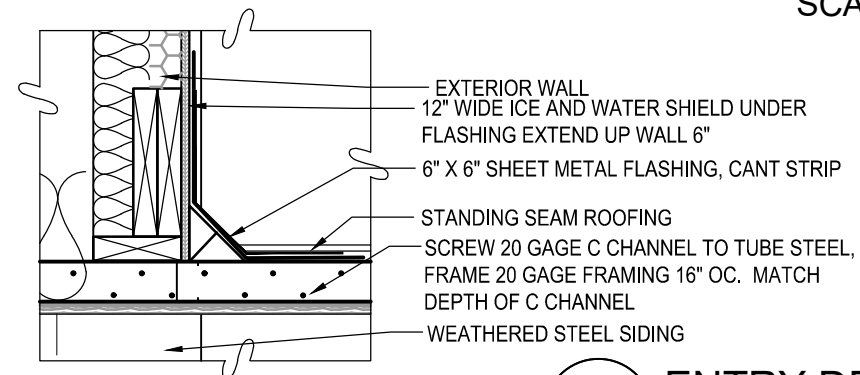
11/26/18 12:50 SHILLWORTHEN X:ASHLEY\FLAMINGGORGERANGERDISTRICT\ADDITION\2017DWG\644.A504.506.WINDOW.DOC\DETAILS.DWG;



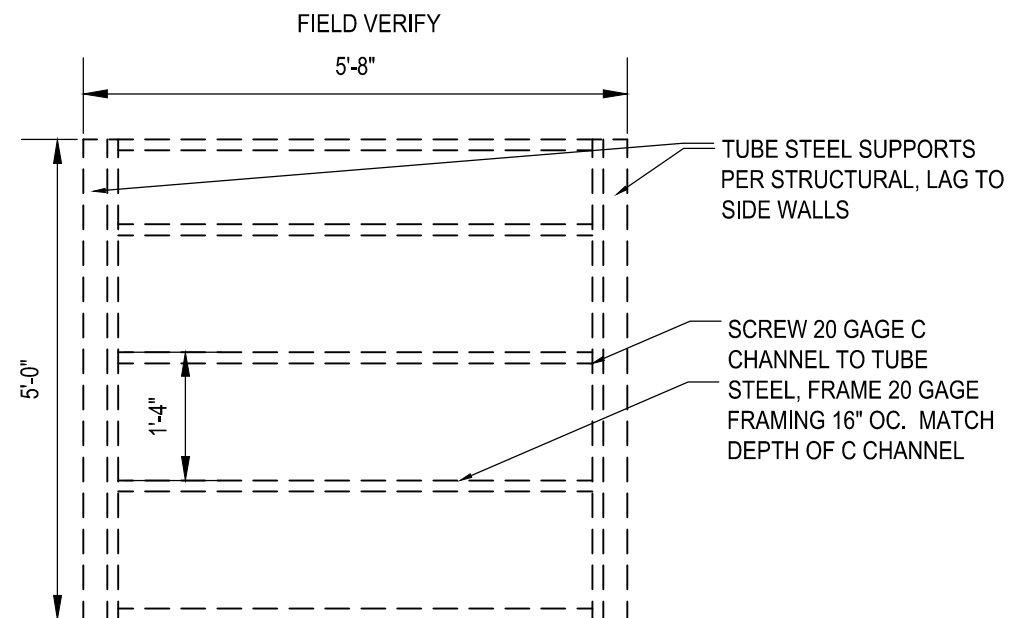
4 ENTRY SECTION
SCALE: 1/2" = 1'-0"



1 HEAD DETAIL
SCALE: 1" = 1'-0"



2 ENTRY DETAIL
SCALE: 1" = 1'-0"



3 ENTRY COVER FRAMING
SCALE: 1/2" = 1'-0"



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Freed

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION

ASHLEY
NATIONAL FOREST

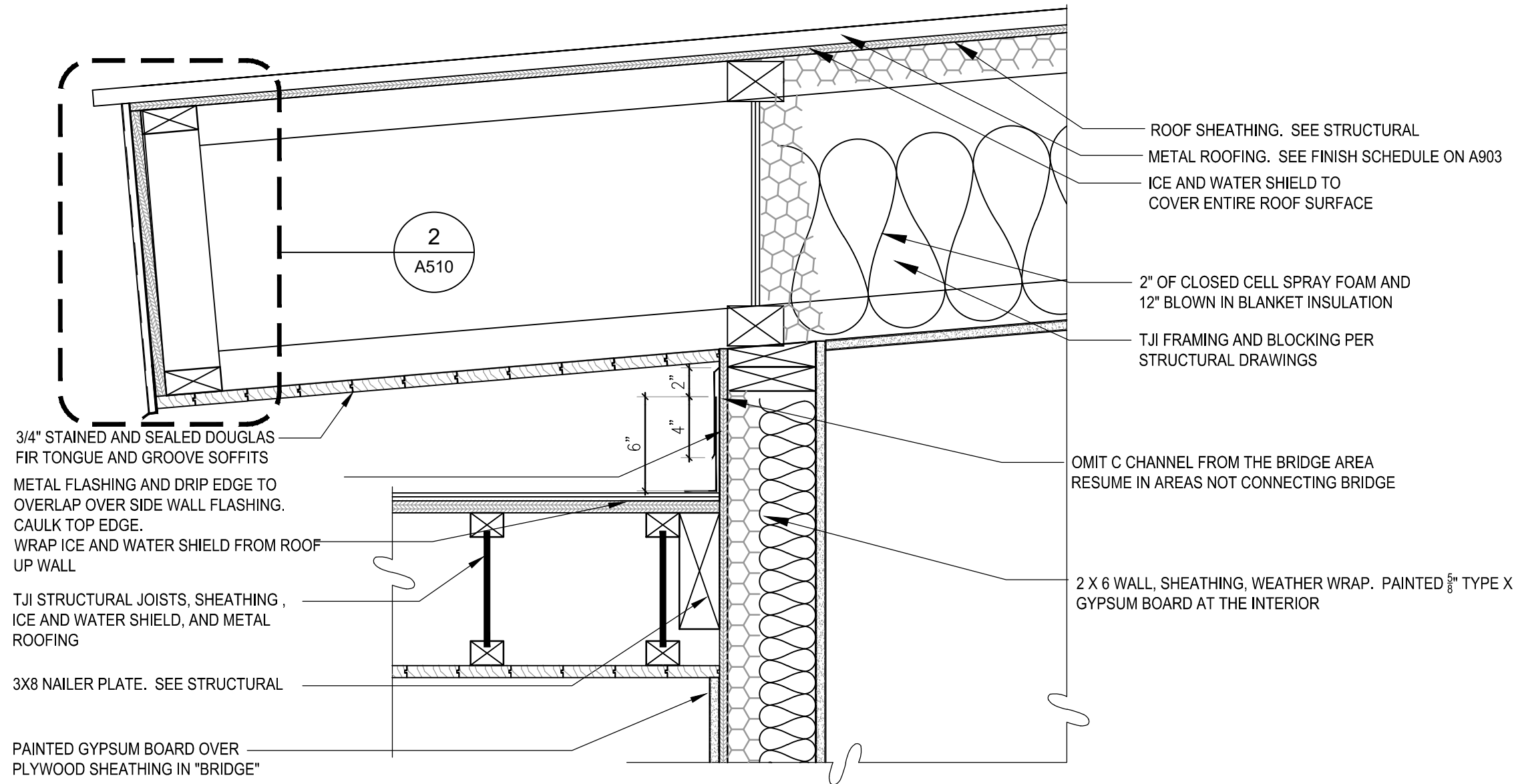
FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

ENTRY DOOR DETAILS

DATE 11/16/2018	ARCHIVE NO.
DESIGNER C. LEWIS	DRAWING SHEET NO. A506
DRAWN SMHW	
CHECKED D. JEPPISEN	
PROJECT NO. 644	SHEET 50 OF 119

11/23/18 08:38 SHILLWORTHEN X:ASHLEY\FLAMINGGORGERANGERDISTRICT\ADDITION\2017DWG\44.A507-510.ROOFDETAILS.DWG;



1 ROOF TO WALL DETAIL

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

0 4" 8" 1'-4"



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



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Fred

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION

ASHLEY
NATIONAL FOREST

FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

ROOF DETAILS

DATE 11/16/2018	ARCHIVE NO.
DESIGNER C. LEWIS	DRAWING SHEET NO. A507
DRAWN SMHW	
CHECKED D. JEPPISEN	
PROJECT NO. 644	SHEET 51 OF 119

11/23/18 08:38:38 SHILLWORTHEN X:ASHLEY\FLAMINGGORGERANGERDISTRICT\ADDITION\2017DWG\644.A507-510-ROOFDETAILS.DWG;

METAL ROOFING. SEE FINISH SCHEDULE
ON A903
ICE AND WATER SHIELD TO COVER
ENTIRE ROOF SURFACE

ROOF SHEATHING. SEE STRUCTURAL

TJI FRAMING PER STRUCTURAL
DRAWINGS AND AND BLOCKING

2" OF CLOSED CELL SPRAY
FOAM AND 12" BLOWN IN BLANKET
INSULATION

PAINTED GYPSUM BOARD
CEILINGS AND WALL

2X6 WALL, SHEATHING, INSULATION.
SEE PLAN

3/4" STAINED AND SEALED DOUGLAS
FIR TONGUE AND GROOVE SOFFIT
ABOVE CHANNEL

PAINTED C 12x 20.7 CHANNEL AS SHOWN ON STRUCTURAL
DRAWINGS.

CORTEN OR COMPOSITE SIDING WITH J METAL
OR REVEAL TRIM.

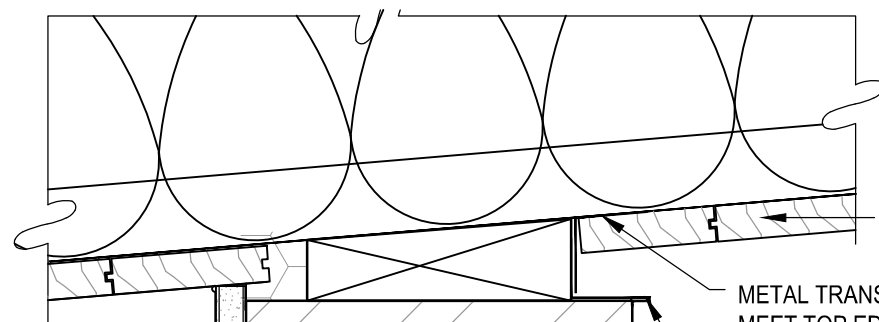
1

ROOF TO WALL DETAIL (TYP.)

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

0 4" 8" 1'-4"

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



METAL TRANSITION TO EXTEND FROM 2" UNDER TONGUE AND GROOVE TO
MEET TOP EDGE OF LOWER DRIP EDGE.

FOLDED METAL DRIP EDGE TO EXTEND UP UNDER DRIP EDGE ABOVE, AND OUT
PAST STEEL BEAM EDGE 1/2"
20 GA. METAL RUNNER CHANNEL SCREWED TO W-BEAM TOP AND BOTTOM OF
BEAM TO SUPPORT GYP

PAINTED STEEL BEAM. SEE
STRUCTURAL. SEE A903

CLOSED CELL, HIGH DENSITY SPRAY
FOAM TO FILL CAVITY

INT GYP. BRD, J METAL.
SEE WALL TYPES

2

SOFFIT DETAIL(TYP)

SCALE: 3" = 1'-0"

0 2" 4" 8"

SCALE: 3" = 1'-0"



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Freed

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION

ASHLEY
NATIONAL FOREST

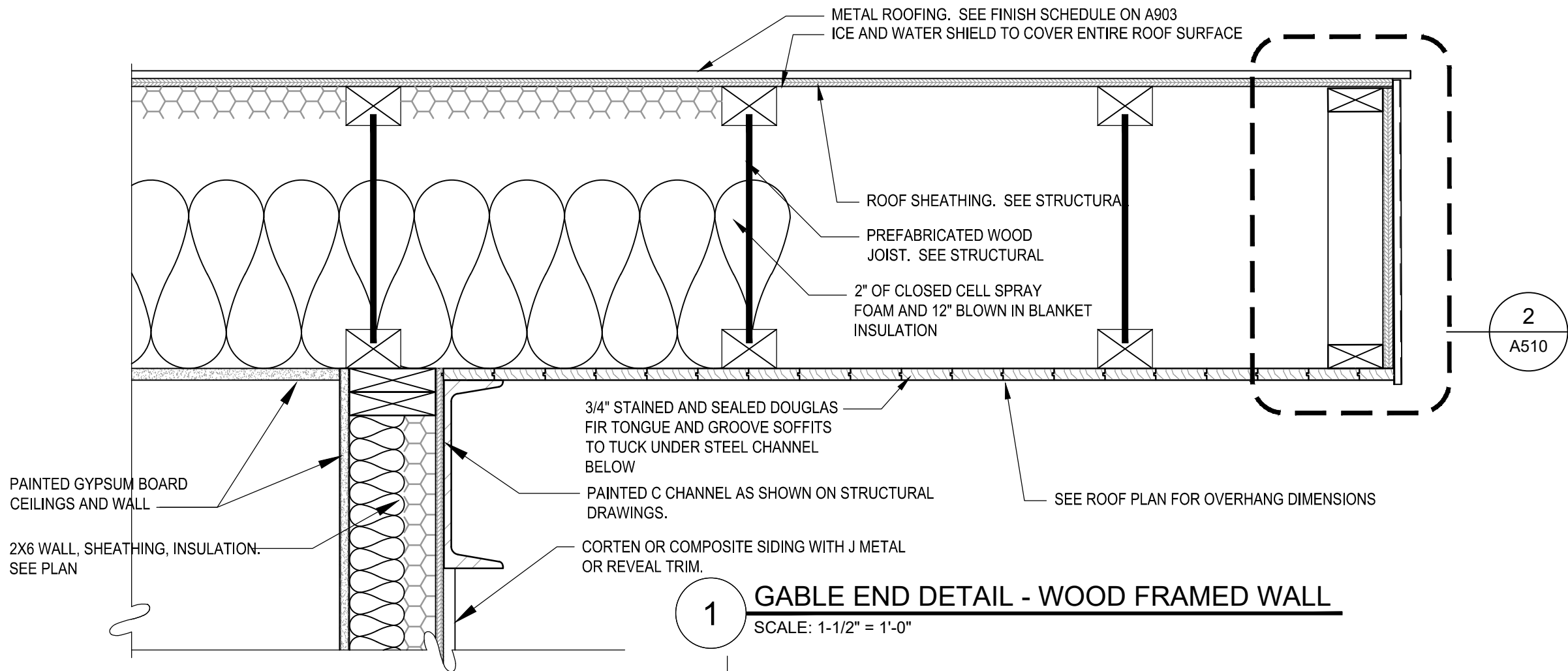
FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

ROOF DETAILS

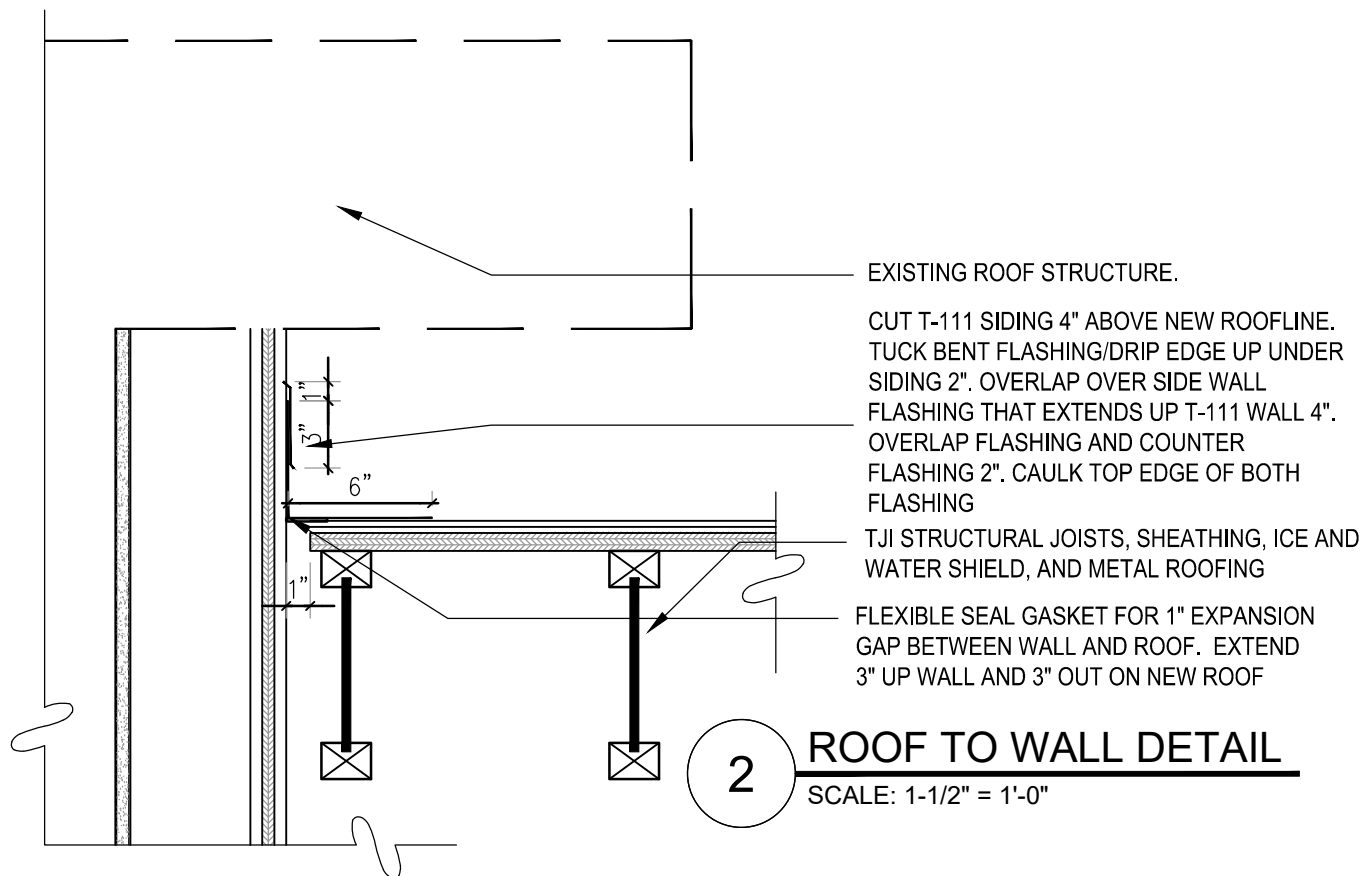
DATE 11/16/2018	ARCHIVE NO.
DESIGNER C. LEWIS	DRAWING SHEET NO. A508
DRAWN SMHW	
CHECKED D. JEPPISEN	
PROJECT NO. 644	SHEET 52 OF 119

11/23/18 08:38 SHILLWORTHEN X:ASHLEY\FLAMINGGORANGERDISTRICT\ADDITION\2017DWG\644 A507\510-ROOFDETAILS.DWG;



1 GABLE END DETAIL - WOOD FRAMED WALL
SCALE: 1-1/2" = 1'-0"

0 4" 8" 1'-4"
SCALE: 1 1/2" = 1'-0"



2 ROOF TO WALL DETAIL
SCALE: 1-1/2" = 1'-0"



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Freed

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

**FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION**

**ASHLEY
NATIONAL FOREST**

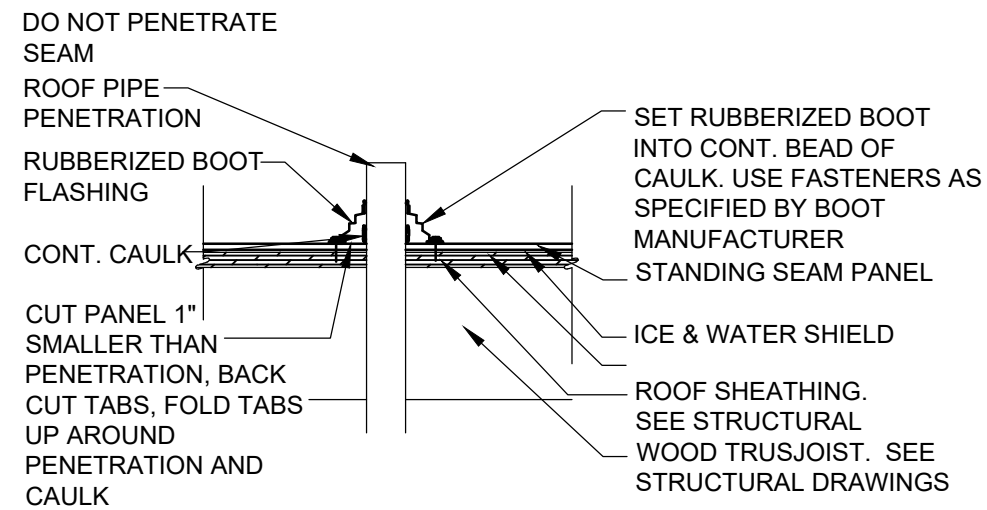
FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

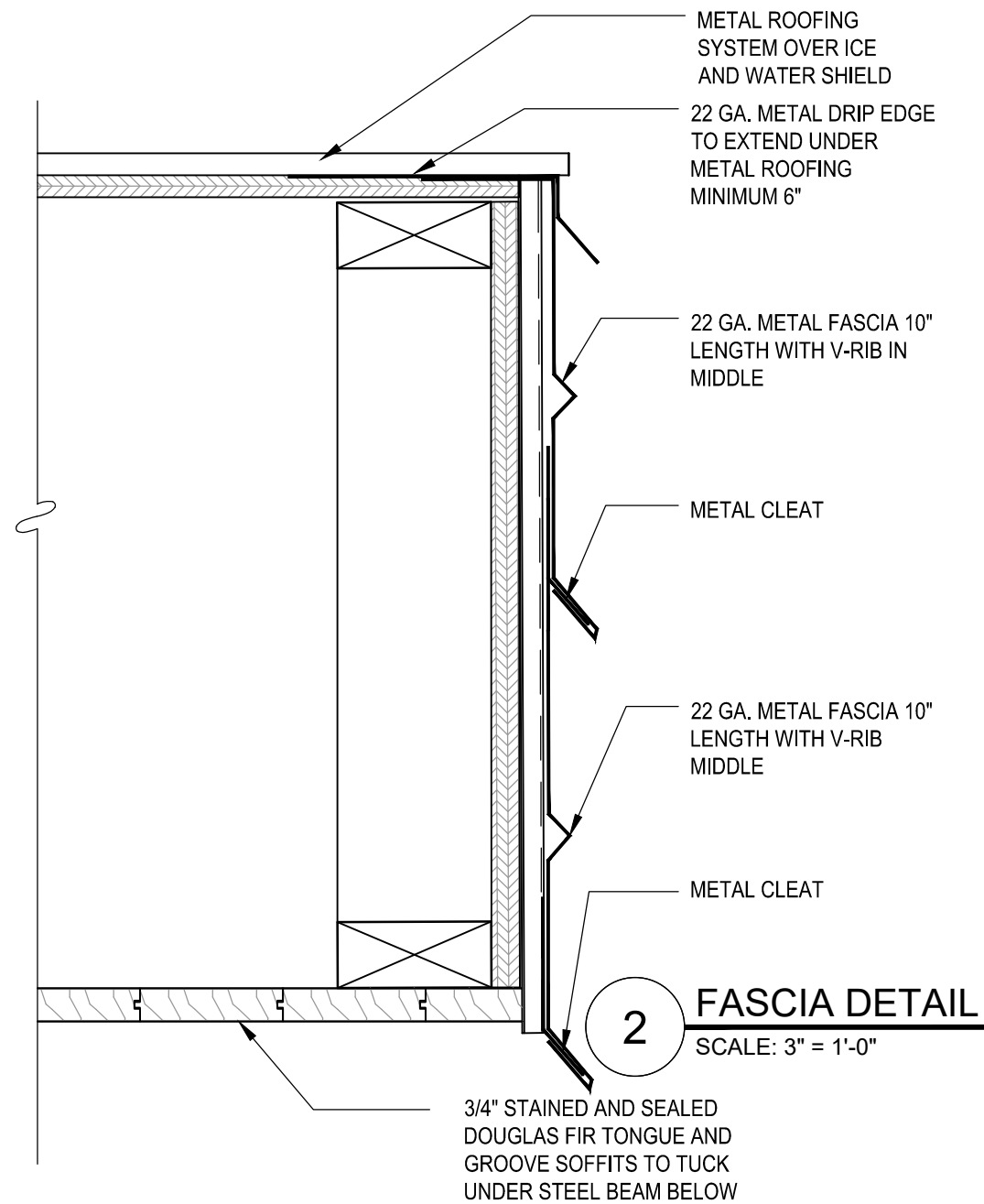
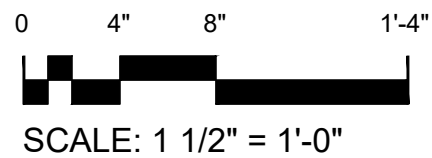
ROOF DETAILS

DATE 11/16/2018	ARCHIVE NO.
DESIGNER C. LEWIS	DRAWING SHEET NO. A509
DRAWN SMHW	
CHECKED D. JEPPESEN	
PROJECT NO. 644	SHEET 53 OF 119

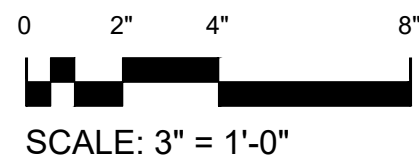
11/23/18 08:38 SHILLWORTHEN X:ASHLEY\FLAMINGGORGERANGERDISTRICT\ADDITION\2017DWG\644.A510-ROOFDETAILS.DWG



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



2 FASCIA DETAIL
SCALE: 3" = 1'-0"



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Fred

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

**FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION**

**ASHLEY
NATIONAL FOREST**

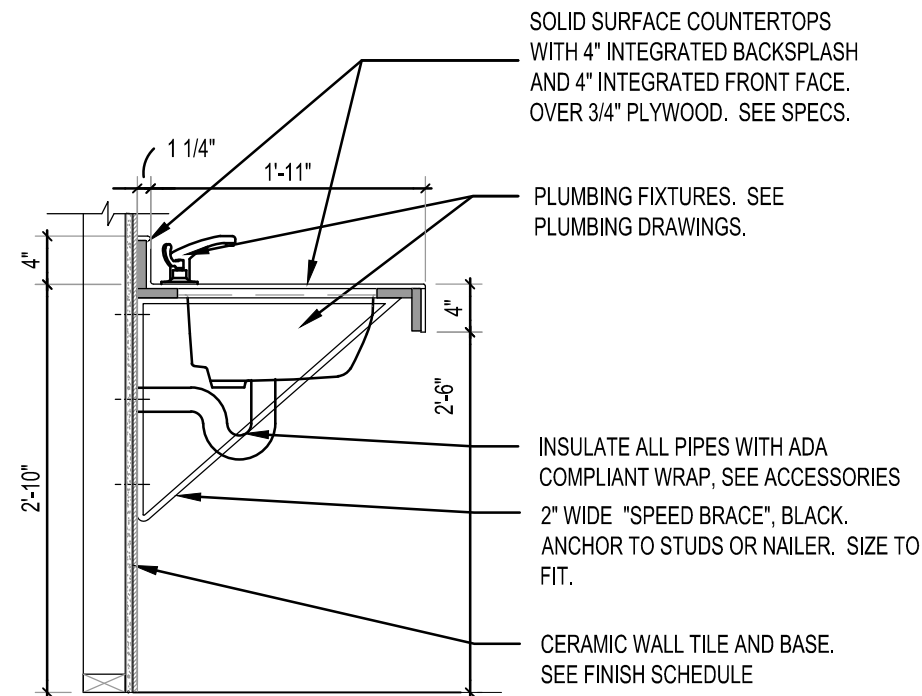
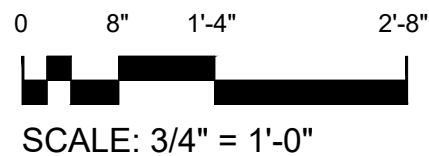
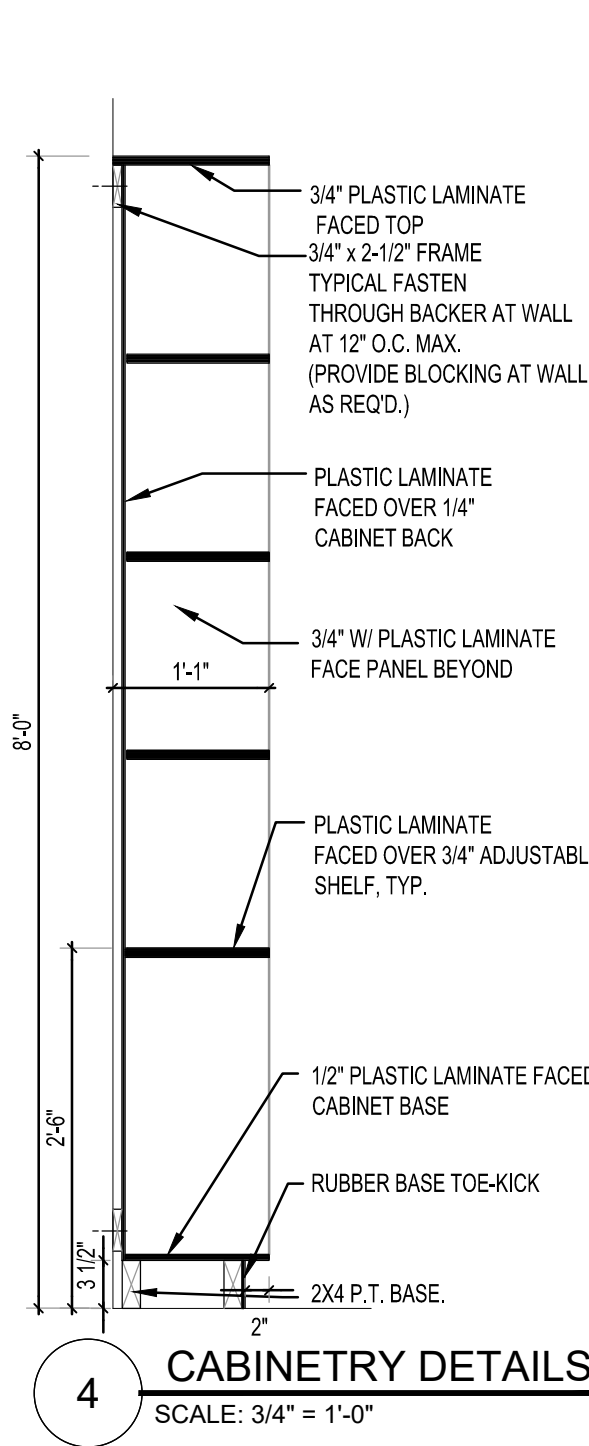
FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

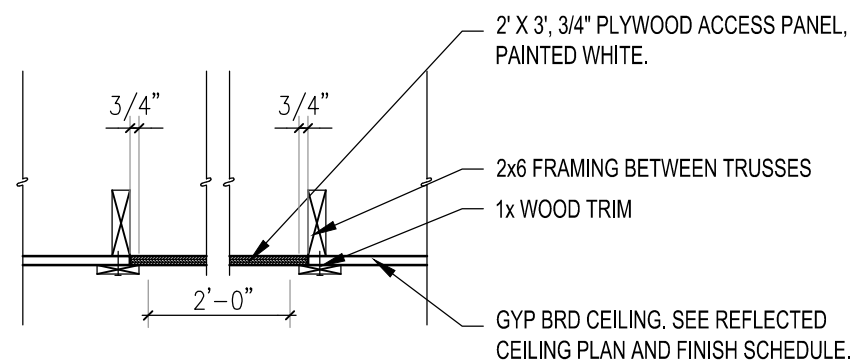
ROOF DETAILS

DATE 11/16/2018	ARCHIVE NO.
DESIGNER C. LEWIS	DRAWING SHEET NO. A510
DRAWN SMHW	
CHECKED D. JEPPESEN	
PROJECT NO. 644	SHEET 54 OF 119

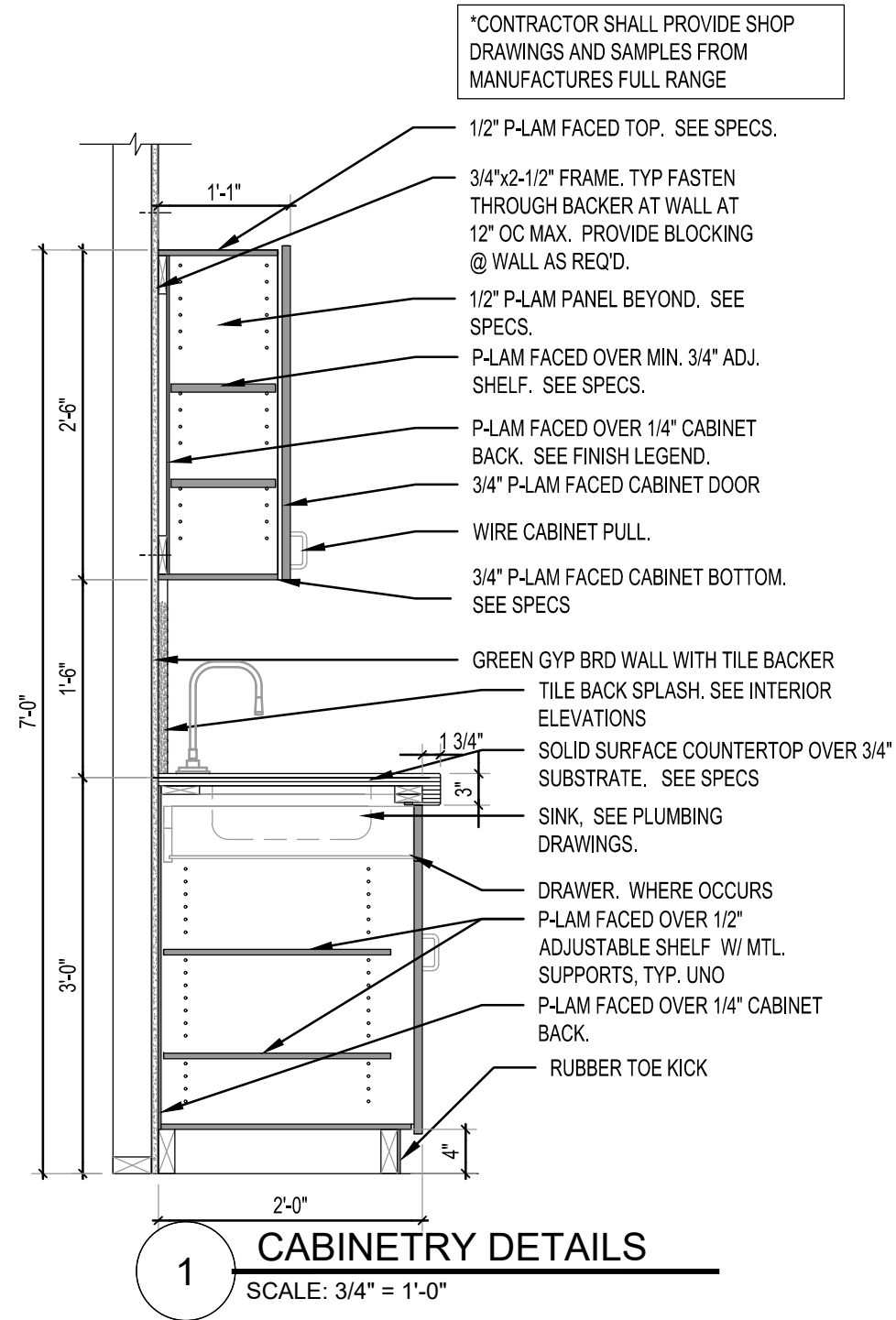
11/16/18 17:26 SHILL WORTHEN X:ASHLEY\FLAMING GORGE\RANGER DISTRICT ADDITION\2017\DWG\644 A511 A512 DETAILS.DWG



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



2 ATTIC ACCESS PANEL DETAIL
SCALE: 3/4" = 1'-0"



*CONTRACTOR SHALL PROVIDE SHOP DRAWINGS AND SAMPLES FROM MANUFACTURES FULL RANGE



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Fred

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

**FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION**

**ASHLEY
NATIONAL FOREST**

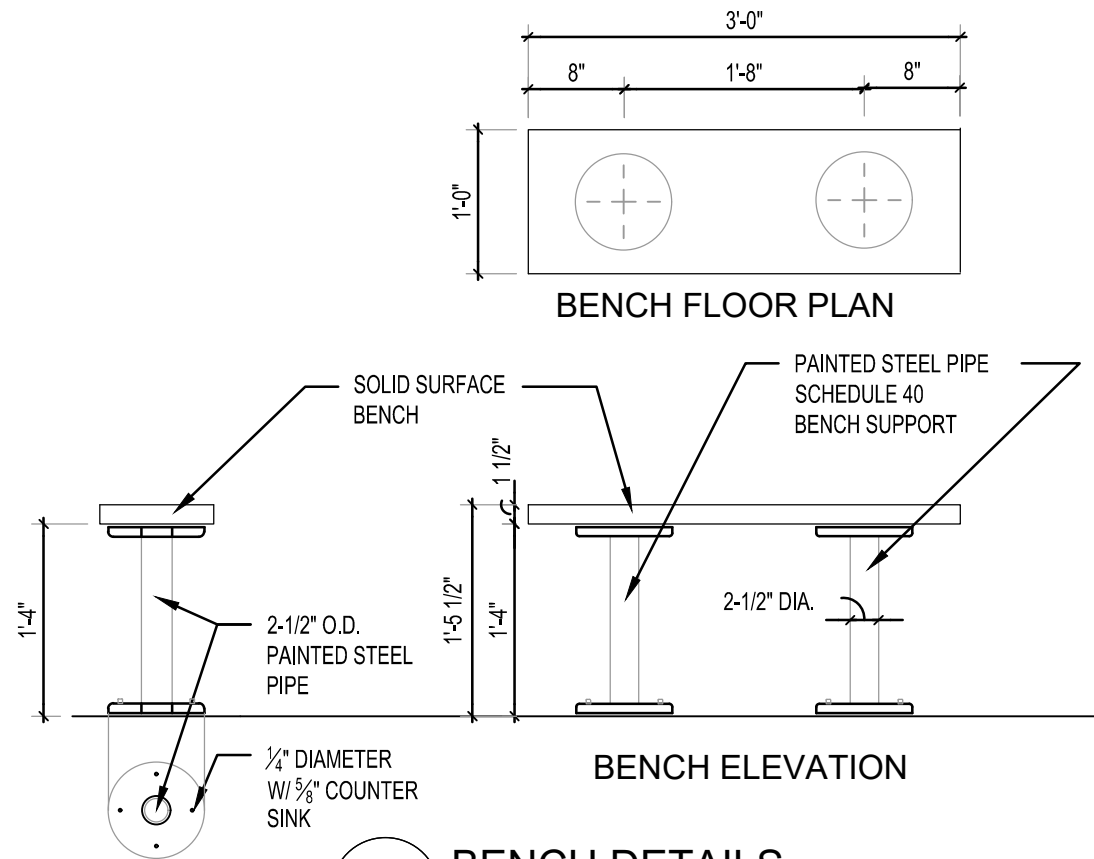
FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

DETAILS

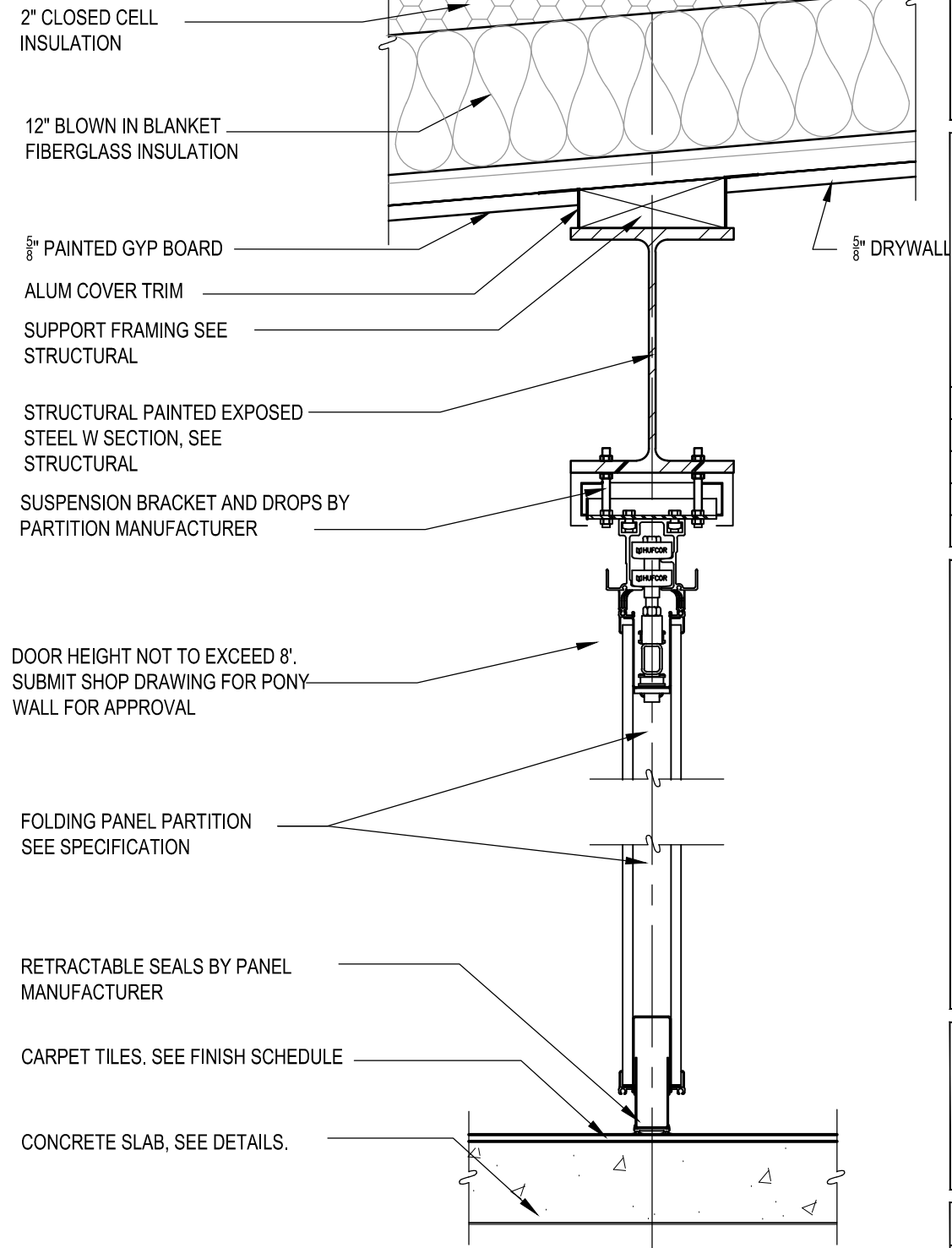
DATE 11/16/2018	ARCHIVE NO.
DESIGNER C. LEWIS	DRAWING SHEET NO. A511
DRAWN SMHW	
CHECKED D. JEPSEN	
PROJECT NO. 644	SHEET 55 OF 119

11/16/18 17:25 SHILLWORTHEN X:ASHLEY\FLAMINGGORGERANGERDISTRICT ADDITION 2017DWG\644.A511.A512.DETAILS.DWG



2 BENCH DETAILS
SCALE: 3/4" = 1'-0"

0 8" 1'-4" 2'-8"
SCALE: 3/4" = 1'-0"



0 4" 8" 1'-4"
SCALE: 1 1/2" = 1'-0"

1 FOLDING PANEL PARTITION DETAILS
SCALE 1 1/2" = 1'-0"



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Fred

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

**FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION**

**ASHLEY
NATIONAL FOREST**

FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

DETAILS

DATE 11/16/2018	ARCHIVE NO.
DESIGNER C. LEWIS	DRAWING SHEET NO. A512
DRAWN SMHW	
CHECKED D. JEPPESEN	
PROJECT NO. 644	SHEET 56 OF 119



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Freed

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION

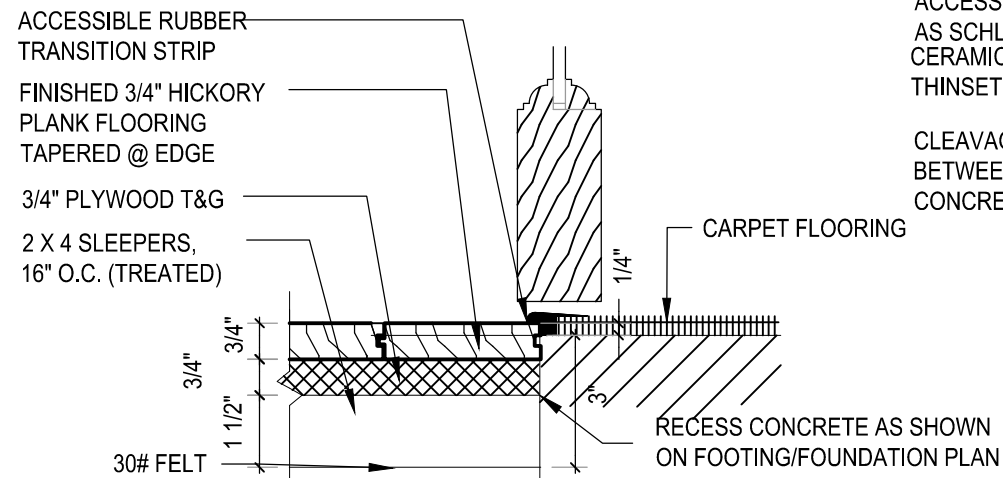
ASHLEY
NATIONAL FOREST

FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

FLOORING TRANSITION
DETAILS

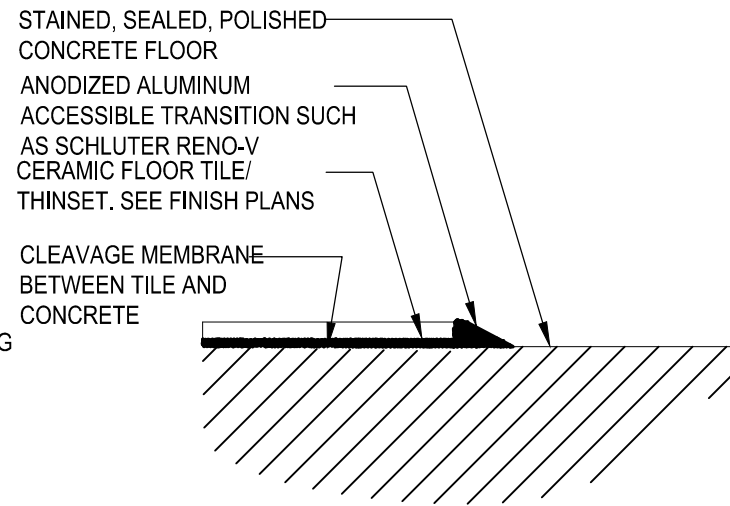
DATE 11/16/2018	ARCHIVE NO.
DESIGNER C. LEWIS	DRAWING SHEET NO. A513
DRAWN SMHW	
CHECKED D. JEPPESEN	
PROJECT NO. 644	SHEET 57 OF 119



7

TRANSITION DETAIL

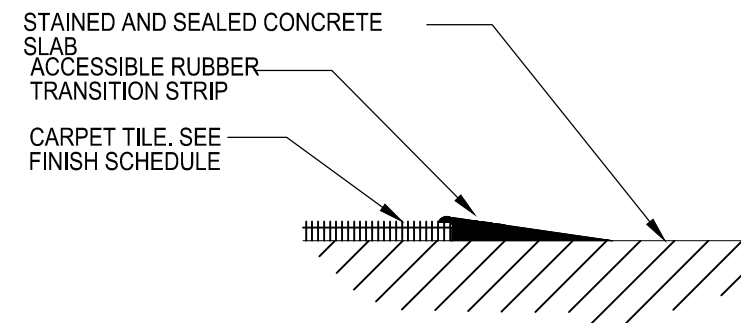
SCALE: 3" = 1'-0"



4

TRANSITION DETAIL

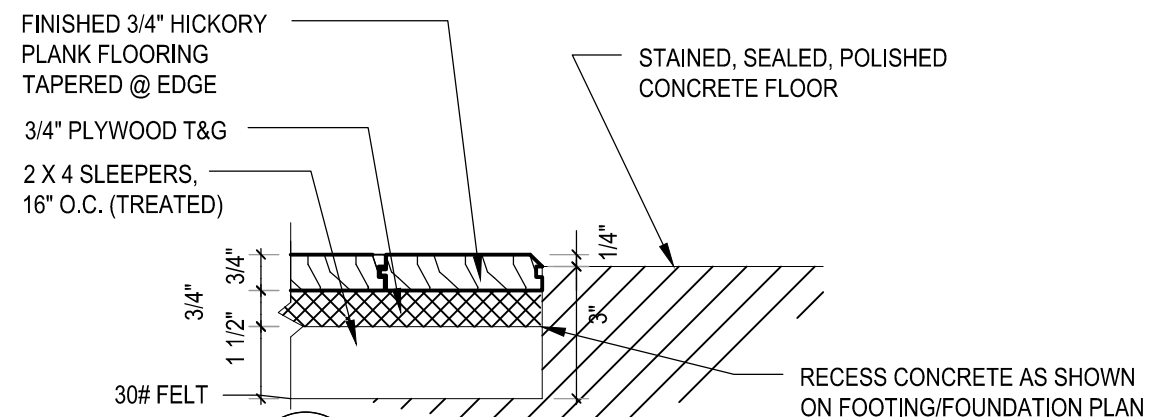
SCALE: 3" = 1'-0"



1

TRANSITION DETAIL

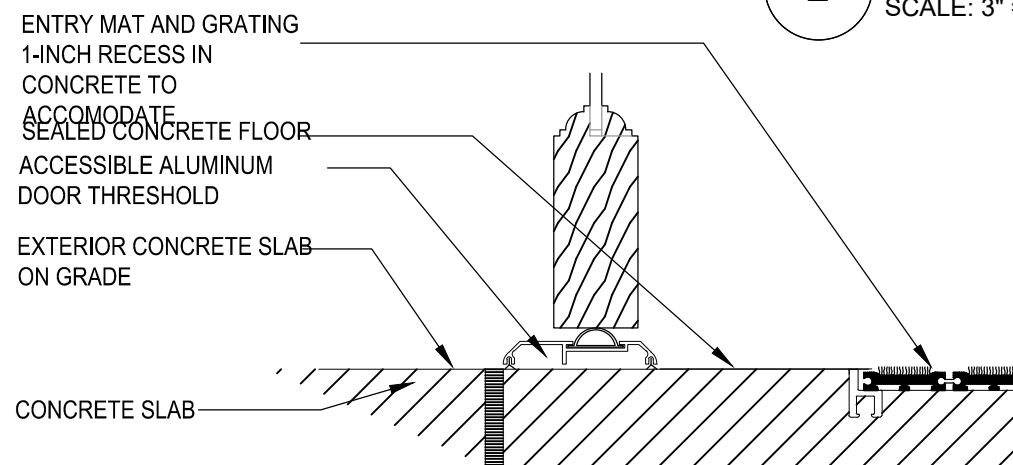
SCALE: 3" = 1'-0"



2

TRANSITION DETAIL

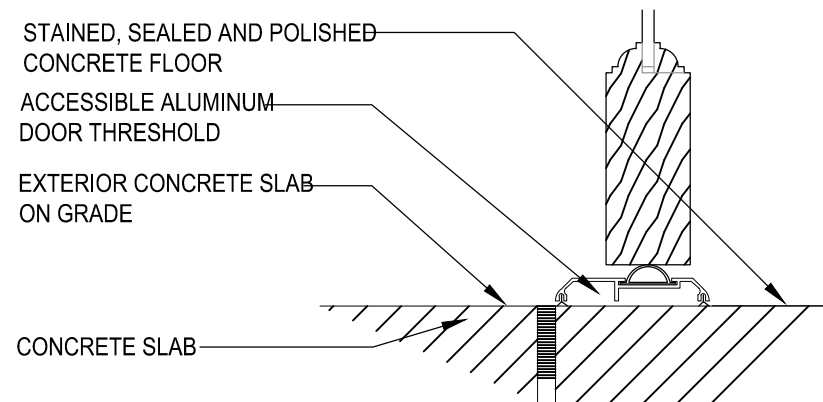
SCALE: 3" = 1'-0"



6

TRANSITION DETAIL

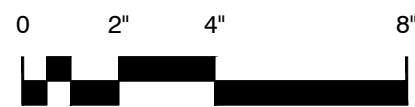
SCALE: 3" = 1'-0"



3

TRANSITION DETAIL

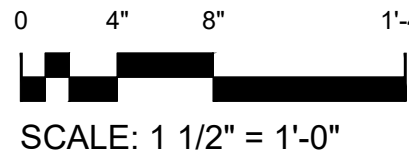
SCALE: 3" = 1'-0"




SCALE: 3" = 1'-0"

WALL TYPES

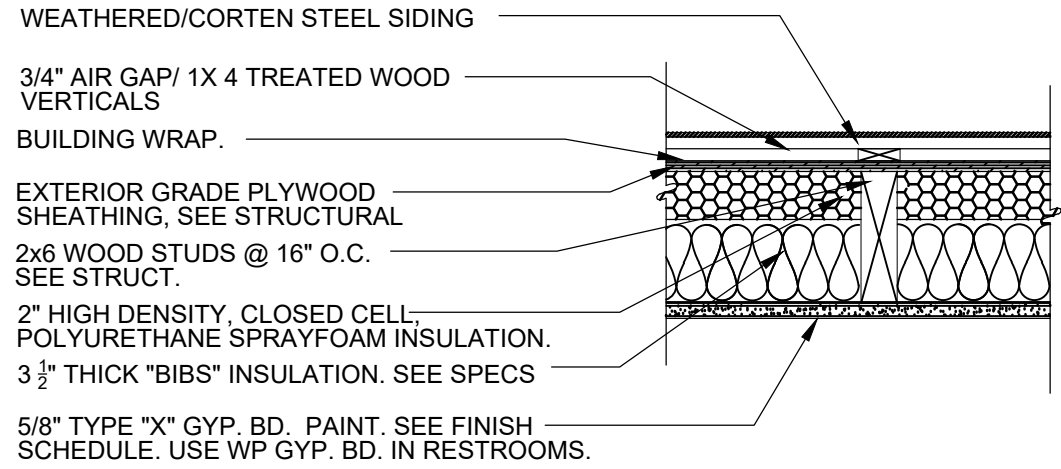
- SEE STRUCTURAL DRAWINGS FOR ALL SHEAR WALL SHEATHING REQUIREMENTS WITH ALL WALL TYPES.



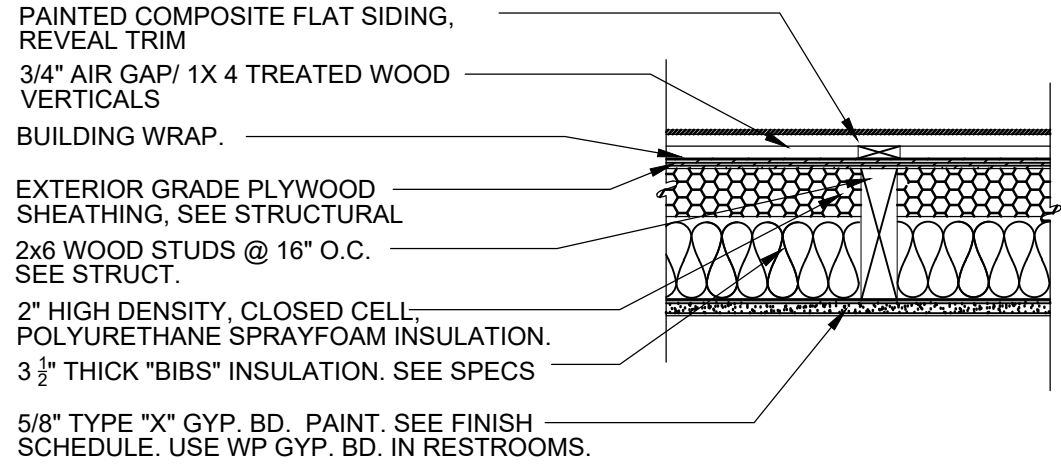


United States Department of Agriculture
Forest Service

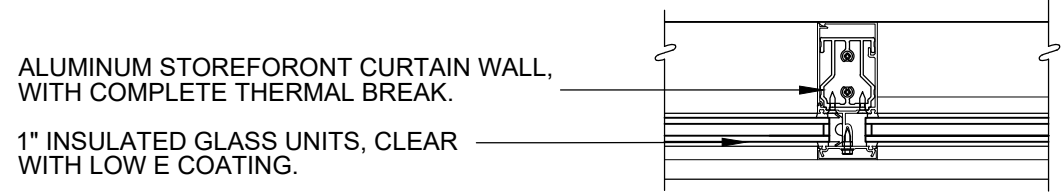
REGION 4
INTERMOUNTAIN REGION



SCALE 1 1/2" = 1'-0" **A**



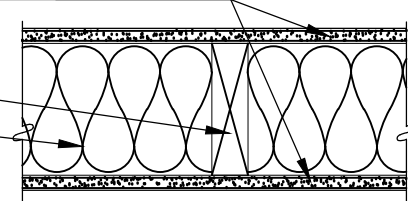
SCALE 1 1/2" = 1'-0" **B**



SCALE 1 1/2" = 1'-0" **C**

1 HOUR RATED ASSEMBLY IN AREAS SHOWN ON PLANS

5/8" TYPE "X" GYP. BD. BOTH SIDES
UNLESS NOTED OTHERWISE ON PLAN.
PAINT. SEE FINISH SCHEDULE. USE WP
GYP. BD. IN RESTROOMS.
2x6 WOOD STUDS @ 16" O.C.
5-1/2" SOUND ATTENUATION BLANKETS,
FULL HEIGHT OF WALL.



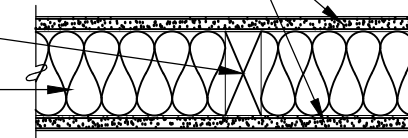
NOTE:
GYP. BD. REQ'D ONLY ONE SIDE AT PLUMBING CHASES
OR COLUMN ENCLOSURES.

SEE FRAMING PLAN FOR 1 HOUR FIRE
RATED LOCATIONS

SCALE 1 1/2" = 1'-0" **D**

5/8" TYPE "X" GYP. BD. BOTH SIDES
UNLESS NOTED OTHERWISE ON PLAN.
PAINT. SEE FINISH SCHEDULE. USE WP
GYP. BD. IN RESTROOMS.

2x4 WOOD STUDS @ 16" O.C.



3-1/2" SOUND ATTENUATION BLANKETS,
FULL HEIGHT OF WALL.
NOTES:
GYP. BD. REQ'D ONLY ONE SIDE AT PLUMBING CHASES
OR COLUMN ENCLOSURES.
ADDITION OF FRP IWAINSCOT N CUSTODIAL CLOSET 4'
HEIGHT

SEE FRAMING PLAN FOR 1 HOUR FIRE
RATED LOCATIONS

SCALE 1 1/2" = 1'-0" **E**

CERAMIC TILE (THINSET) OR
GREENBOARD. SEE FINISH SCHEDULE
AND ELEVATIONS

CEMENTITIOUS BACKER BOARD UNDER TILE

PRESSURE TREATED 2x4 WOOD STUD FRAMING
@ 16" O.C.

3-1/2" SOUND ATTENUATION
BLANKETS, FULL HEIGHT OF WALL

2-1/2" AIR SPACE

3-1/2" SOUND ATTENUATION
BLANKETS, FULL HEIGHT OF WALL

CEMENTITIOUS BACKER BOARD

CERAMIC TILE (THINSET). SEE FINISH
SCHEDULE

NOTE:
GYP. BD. REQ'D ONLY ONE SIDE AT PLUMBING CHASES
OR COLUMN ENCLOSURES.

SCALE 1 1/2" = 1'-0" **F**

STAMPS, LOGOS, AND SEALS		
s/s Regina Fred		
<div>4</div>	11/29/18	
<div>3</div>		
<div>2</div>		
<div>1</div>		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

**FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION**

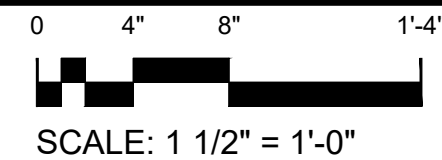
**ASHLEY
NATIONAL FOREST**

FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

WALL TYPES

DATE 11/16/2018	ARCHIVE NO.
DESIGNER C. LEWIS	DRAWING SHEET NO.
DRAWN SMHW	A601
CHECKED D. JEPSEN	
PROJECT NO. 644	SHEET 58 OF 119



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Freel

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

**FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION**

**ASHLEY
NATIONAL FOREST**

FLAMING GORGE RANGER DISTRICT

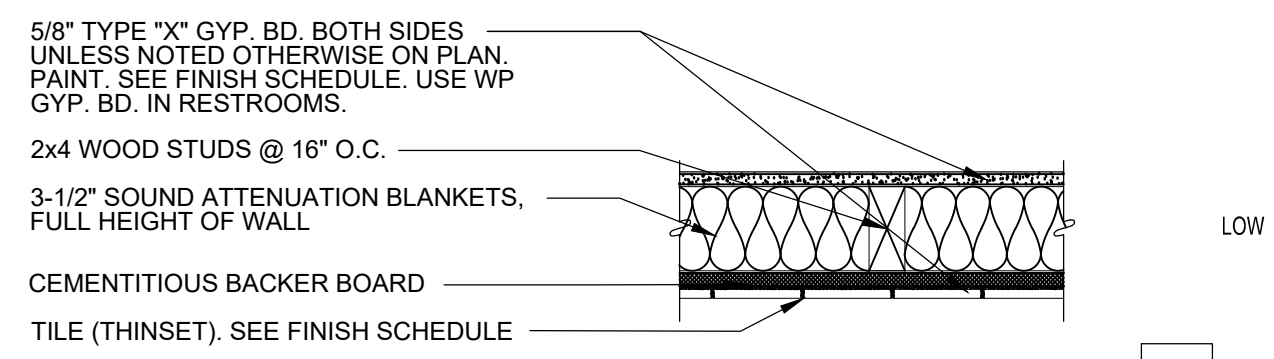
DRAWING TITLE

WALL TYPES

DATE 11/16/2018	ARCHIVE NO.
DESIGNER C. LEWIS	DRAWING SHEET NO.
DRAWN SMHW	A602
CHECKED D. JEPPSEN	
PROJECT NO. 644	SHEET 59 OF 119

WALL TYPES

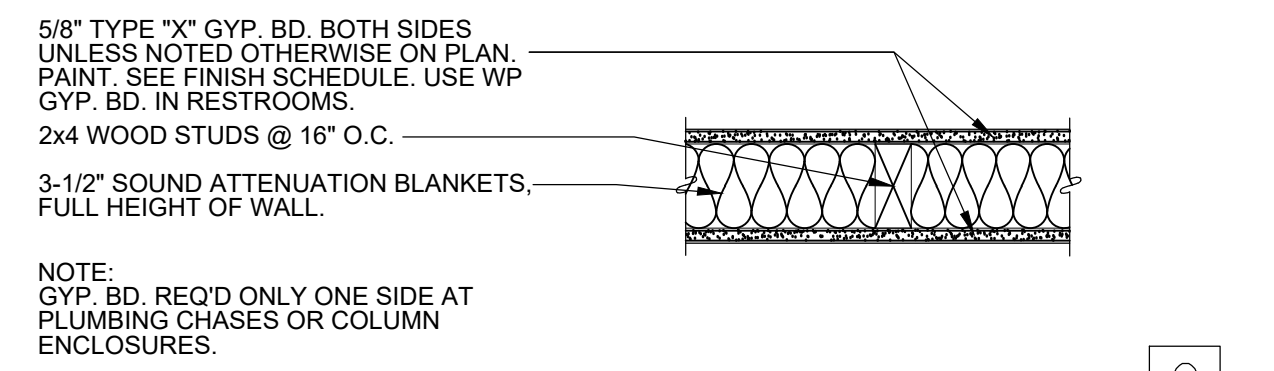
- SEE STRUCTURAL DRAWINGS FOR ALL SHEAR WALL SHEATHING REQUIREMENTS WITH ALL WALL TYPES.



SEE FRAMING PLAN FOR 1 HOUR FIRE RATED LOCATIONS
SCALE 1 1/2" = 1'-0"

G

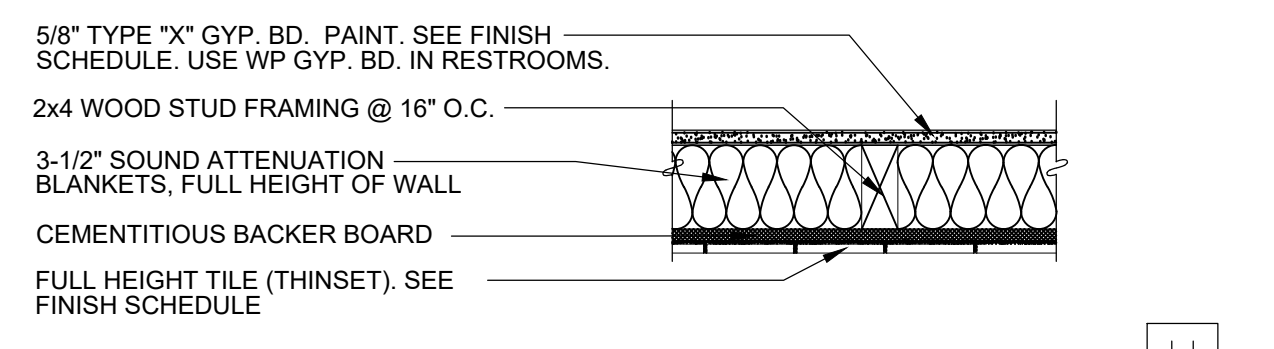
LOW



SEE FRAMING PLAN FOR 1 HOUR FIRE RATED LOCATIONS
SCALE 1 1/2" = 1'-0"

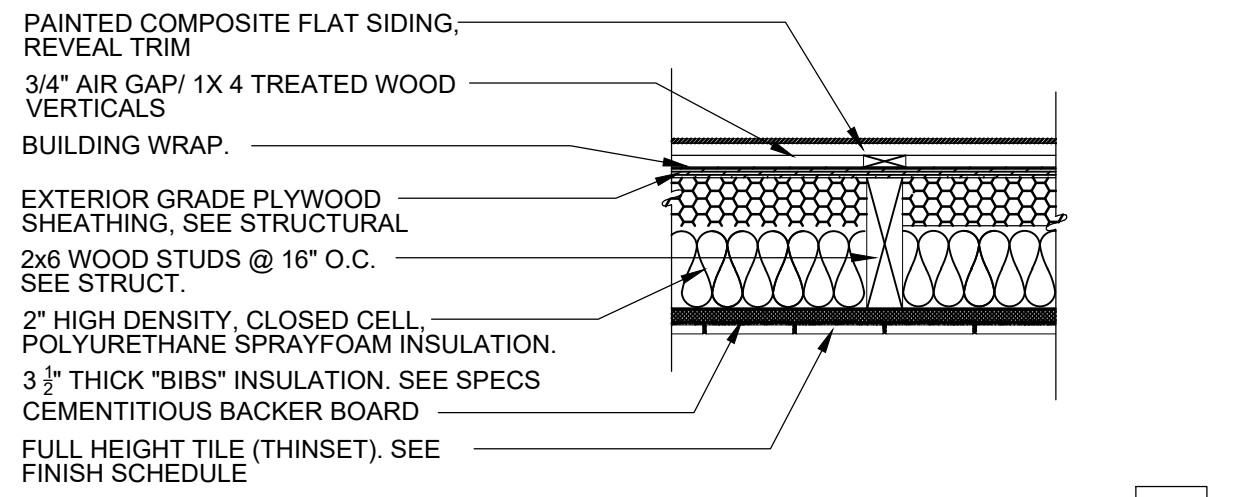
G

HIGH



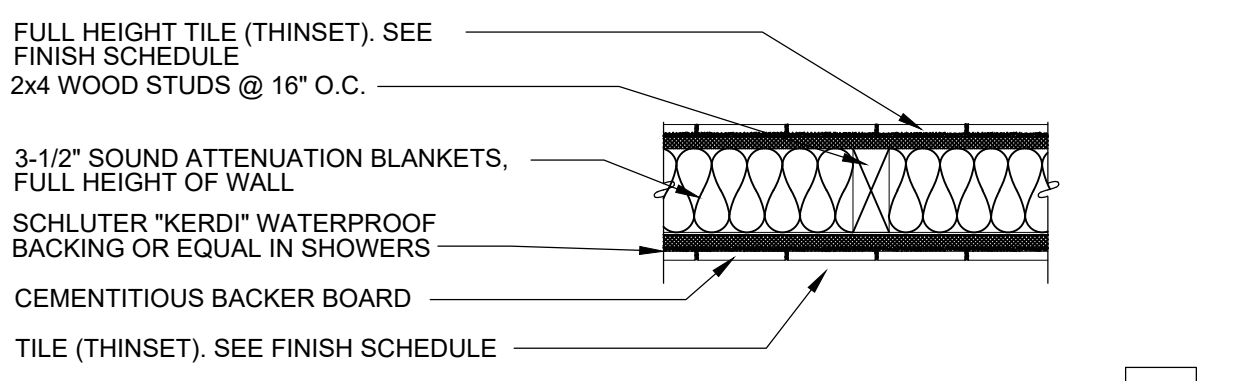
SEE FRAMING PLAN FOR 1 HOUR FIRE RATED LOCATIONS
SCALE 1 1/2" = 1'-0"

H



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

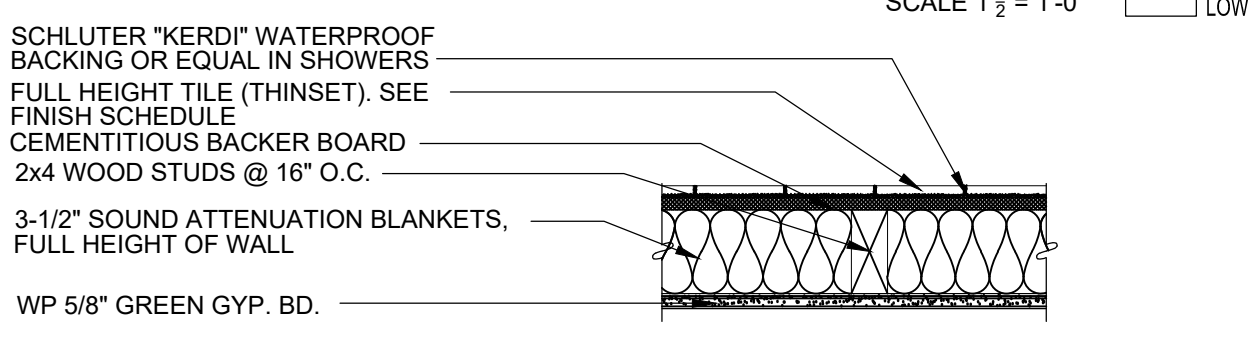
I



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

J

LOW



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

J

HIGH

NOTE:
GYP. BD. REQ'D ONLY ONE SIDE AT PLUMBING CHASES OR COLUMN ENCLOSURES.

11/26/18 14:01 SHILLWORTHEN X:\ASHLEY\FLAMINGGORGERANGERDISTRICT\ADDITION 2017\DWG\644.A601.A602.WALL TYPES.DWG





11/16/18 17:35 SHILLWORTHEN X:ASHLEY\FLAMINGGORGERANGERDISTRICT.ADDITION.2017DWG\644.A701.A703.A704.DOORS.DWG;

WD	WOOD	ST	STAIN
HM	HOLLOW METAL	PT	PAINT
AL	ALUMINUM		
AN	ANODIZED		

GENERAL DOOR/WINDOW NOTES

①	ALL WOOD DOORS & FRAMES SHALL BE STAINED - SEE A903
②	ALL GLAZING ON FIRE RATED DOORS/SIDELITES TO BE 5⁄16", 20 MIN. PYROGUARD, CLEAR, TEMPERED, GLAZING
③	ALL HOLLOW METALS COMPONENTS SHALL BE PAINTED

WINDOW TYPE NOTES / LEGEND:

A	ALL GLASS WITHIN 24" OF ANY DOOR SHALL BE TEMPERED. SEE IBC
B	ALL GLASS WITHIN 18" OF FIN. FLOOR SHALL BE TEMPERED SEE IBC
C	ALL HOLLOW METAL FRAMES SHALL BE PAINTED.
D	ALL HOLLOW METAL FRAMES SHALL BE FACTORY PRIMED
E	ALL WINDOW STOPS SHALL BE ROOM SIDE
	INDICATES 1" INSULATED TEMPERED GLAZING
	INDICATES 1/4" TEMPERED GLAZING
	INDICATES 1" INSULATED GLAZING
	INDICATES HINGE. COORD. W/ PLAN AND DOOR SCHEDULE.

DOOR SCHEDULE

NO.	DOOR AND GLASS SIZE	FIRE RATING (MIN)	DOOR			FRAME			FRAME DETAILS			HARDWARE	DOOR NOTES
			TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	HEAD	JAMB	THRESHOLD		
01	3'-0" x 7'-0" x 1 3/4"	–	1	AL/WD	AN/ST	1	AL/WD	AN/WD	8⁄ A505	9⁄ A505	6⁄ A513	01	①
02	3'-0" x 7'-0" x 1 3/4"	–	1	AL/WD	AN/ST	3	AL/WD	AN/WD	8⁄ A505	9⁄ A505	3⁄ A513	01	①
03	3'-0" x 7'-0" x 1 3/4"	20	3	WD	ST	4	HM	PT	7⁄ SIM A505	7⁄ SIM A505	7⁄ A513	08	①②③
04	3'-0" x 7'-0" x 1 3/4"	–	2	WD	ST	2	HM	PT	7⁄ A505	7⁄ A505	6⁄ A513	05	① ③
05	3'-0" x 7'-0" x 1 3/4"	20	3	WD	ST	4	HM	PT	7⁄ A505	7⁄ A505	1⁄ A513	04	①②③
06	3'-0" x 7'-0" x 1 3/4"	20	3	WD	ST	4	HM	PT	7⁄ A505	7⁄ A505	7⁄ A513	04	①②③
07	3'-0" x 7'-0" x 1 3/4"	20	3	WD	ST	4	HM	PT	7⁄ A505	7⁄ A505	7⁄ A513	02	①②③
08	3'-0" x 7'-0" x 1 3/4"	20	4	WD	ST	4	HM	PT	7⁄ A505	7⁄ A505	4⁄ A513	03	①②③
09	3'-0" x 7'-0" x 1 3/4"	20	4	WD	ST	4	HM	PT	7⁄ A505	7⁄ A505	4⁄ A513	03	①②③
10	3'-0" x 7'-0" x 1 3/4"	20	4	WD	ST	4	HM	PT	7⁄ A505	7⁄ A505	-	06	①②③
11	3'-0" x 7'-0" x 1 3/4"	20	4	WD	ST	4	HM	PT	7⁄ A505	7⁄ A505	-	06	①②③
12	3'-0" x 7'-0" x 1 3/4"	20	3	WD	ST	4	HM	PT	7⁄ A505	7⁄ A505	-	08	①②③
13	3'-0" x 7'-0" x 1 3/4"	–	3	WD	ST	4	HM	PT	7⁄ A505	7⁄ A505	1⁄ A513	04	① ③
14	3'-0" x 7'-0" x 1 3/4"	–	4	WD	ST	4	HM	PT	7⁄ A505	7⁄ A505	1⁄ A513	06	① ③
15	3'-0" x 7'-0" x 1 3/4"	–	3	WD	ST	4	HM	PT	7⁄ A505	7⁄ A505	1⁄ A513	02	① ③
16	3'-0" x 7'-0" x 1 3/4"	–	3	WD	ST	4	HM	PT	7⁄ A505	7⁄ A505	-	04	① ③
17	(2)2'-6" x 7'-0" x 1 3/4"	–	5	WD	ST	5	HM	PT	7⁄ A505	7⁄ A505	-	07	① ③
18	FOLDING DOOR	SEE SPECIFICATION AND DETAILS							1⁄ A512		1⁄ A512		
19	3'-0" x 7'-0" x 1 3/4"	-	4	WD	ST	4	HM	PT	7⁄ A505	7⁄ A505	-	06	① ③

SEE SHEET A901 AND SPECS FOR MORE PRODUCT INFORMATION.
COORDINATE KEYING AND CYLINDER LOCK WITH COR. COORDINATE ELECTRONIC ACCESS LOCK WITH COR.
SEE SHEET A703 FOR DOOR AND FRAME TYPE ELEVATIONS.







United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Freed

	11/29/18	
		
		
		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION

ASHLEY
NATIONAL FOREST

FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

DOOR SCHEDULE

DATE 11/16/2018	ARCHIVE NO.
DESIGNER C. LEWIS	DRAWING SHEET NO. A701
DRAWN SMHW	
CHECKED D. JEPPISEN	SHEET 60 OF 119
PROJECT NO. 644	

11/16/18 17:35 SHILLWORTHEN X:ASHLEY\FLAMINGGORGERANGERDISTRICT.ADDITION.2017DWG\844.A702.HARDWARESCHEDULE.DWG.

DOOR HARDWARE SCHEDULE

QTY	ITEM	MODEL	FINISH	MANUFACTURER
	GROUP 01:	DOORS 1, 2, ENTRANCE		
3	HINGE	5BB1HW 4.5 x 4.5 NRP	652/US26D	IVES
1	PANIC DEVICE	22L	SP28	VON DUPRIN
1	CREDENTIAL ACCESS LOCK	5831 PIN/ FIPS SMART CARD (PACS)	US26D	KABA E-PLEX
1	RIM CYLINDER	PRIMUS 20-710	626	SCHLAGE
1	SURFACE CLOSER	SC71A HD/PA	AL	FALCON
1	SEALS	700SA	AL	NGP
1	DOOR SWEEP	C627A	AL	NGP
1	THRESHOLD	425HD	AL	NGP
	GROUP 02:	DOORS 7, 15		
3	HINGE	5BB1HW 4.5 x 4.5 NRP	652/US26D	IVES
1	ENTRY/OFFICE LOCK	ND53PD/ F109/ RHODES	626	SCHLAGE
1	SURFACE CLOSER	SC71A RW/PA	AL	FALCON
1	SMOKE SEAL	700SA	AL	NGP
1	DOOR SWEEP	C627A	AL	NGP
1	WALL STOP (DOORS 5, 7, AND 15)	WS407CCV	626	IVES
1	FLOOR STOP (DOOR 6)	FS17	626	IVES
3	SILENCER	SR64	GRY	IVES
	GROUP 03:	DOORS 8,9 BATHROOMS		
3	HINGE	5BB1HW 4.5 x 4.5	652	IVES
1	PASSAGE LOCKSET	ND10S/F109/PHODES	626	IVES
1	SMOKE SEAL	9800W	BLCK	NGP
1	SURFACE CLOSER	SC71A RW/PA	AL	FAL
1	KICK PLATE	8400 10" x 2" LDW	626	IVES
1	WALL STOP	WS407CCV	626	IVES
3	SILENCER	SR64	GRY	IVES
	GROUP 04:	DOORS 5,6,13, 16		
3	HINGE	5BB1 4.5 x 4.5	652	IVES
1	PASSAGE LOCKSET	ND10S/F109/PHODES	626	SCHLAGE
1	WALL STOP	WS407CCV	626	IVES
3	SILENCER	SR64	GRY	IVES
1	SURFACE CLOSER	SC71A RW/PA	689	FALCON
1	SMOKE SEAL	9800W	BLCK	NGP
	GROUP 05:	DOOR 4		
3	HINGE	5BB1HW 4.5 x 4.5	652	IVES
1	PULL/PUSH BAR COMBO	9190 (8190 PULL+9100 PUSH)	626	IVES
1	KICK PLATE	8400 10" x 34"	626	IVES
1	WALL STOP	WS407CCV	626	IVES
3	SILENCER	SR64	GRY	IVES
1	SURFACE CLOSER	SC71A HD/PA	AL	FALCON

DOOR HARDWARE SCHEDULE

QTY	ITEM	MODEL	FINISH	MANUFACTURER
	GROUP 06:	DOORS 10, 11, 14, 19		
3	HINGE	5BB1 4.5 x 4.5	652	IVES
1	STOREROOM LOCK	ND80PD/ F82/ RHODES	626	SCHLAGE
1	SURFACE CLOSER	SC71A RW/PA	AL	FALCON
1	KICK PLATE	8400 10" x 2" LDW	626	IVES
1	WALL STOP	WS407CCV	626	IVES
3	SILENCER	SR64	GRY	IVES
1	SMOKE SEAL	9800W	BLCK	NGP
	GROUP 07:	DOOR 17		
6	HINGE	5BB1 4.5 x 4.5	652	IVES
1	PASSAGE LOCK	ND10PD/ F84/ RHODES	626	SCHLAGE
1	DUMMY TRIM	ND170/ RHODES	626	SCHLAGE
2	KICK PLATE	8400 10" x 34"	626	IVES
2	FLOOR STOP	FS17	626	IVES
6	SILENCER	SR64	GRY	IVES
2	TOP/BOTTOM THRU BOLT	ESTATE 0626.150	626	BALDWIN
	GROUP 08:	DOORS 3, 12		
3	HINGE	5BB1HW 4.5 x 4.5	652	IVES
1	CREDENTIAL ACCESS LOCK	5831 PIN/ FIPS SMART CARD (PACS)	US26D	KABA E-PLEX
1	SURFACE CLOSER	SC71A RW/PA	AL	FALCON
1	WALL STOP	WS407CCV	626	IVES
1	SMOKE SEAL	9800W	BLCK	NGP

DOOR KEYING:

COORDINATE ALL DOOR KEYING GROUPS WITH COR



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Freed

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION

ASHLEY
NATIONAL FOREST

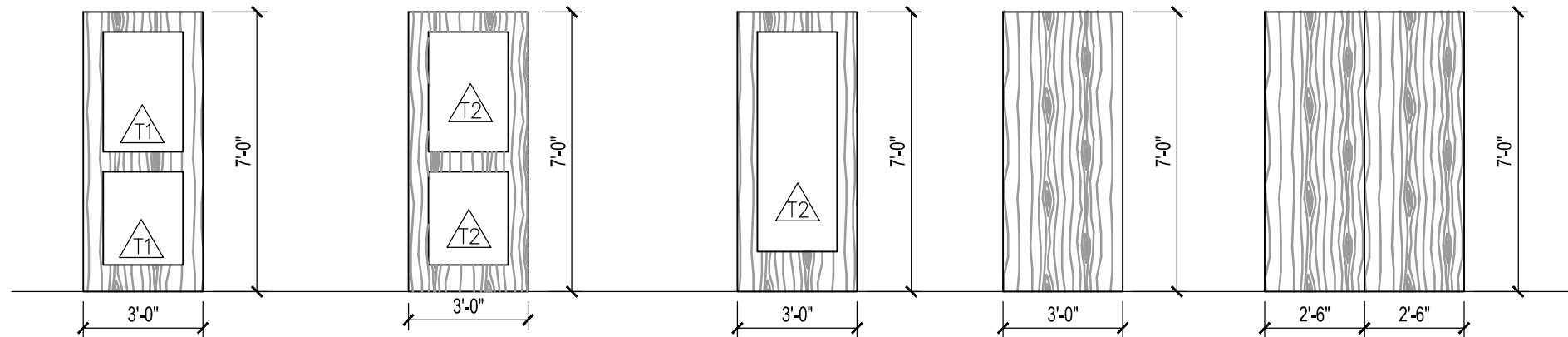
FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

HARDWARE SCHEDULE

DATE 11/16/2018	ARCHIVE NO.
DESIGNER C. LEWIS	DRAWING SHEET NO. A702
DRAWN SMHW	
CHECKED D. JEPPISEN	
PROJECT NO. 644	SHEET 61 OF 119

11/16/18 17:35 SHILLWORTHEN X:ASHLEY\FLAMINGGORGERANGERDISTRICT.ADDITION.2017DWG\644.A703.A704.DOORS.DWG



ALUMINUM CLAD WOOD DOOR
WITH INSULATED GLAZING

DOOR TYPE 1

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

5 PLY DOUGLAS FIR
TIMBERSTAND CORE WOOD
DOOR W/ SPLIT 3/4 LITE

DOOR TYPE 2

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

5 PLY DOUGLAS FIR
TIMBERSTAND CORE WOOD
DOOR W/ 3/4 LITE, FIRE GLAZING

DOOR TYPE 3

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

5 PLY DOUGLAS FIR
TIMBERSTAND CORE WOOD
DOOR

DOOR TYPE 4

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

5 PLY DOUGLAS FIR
TIMBERSTAND CORE WOOD
DOOR

DOOR TYPE 5

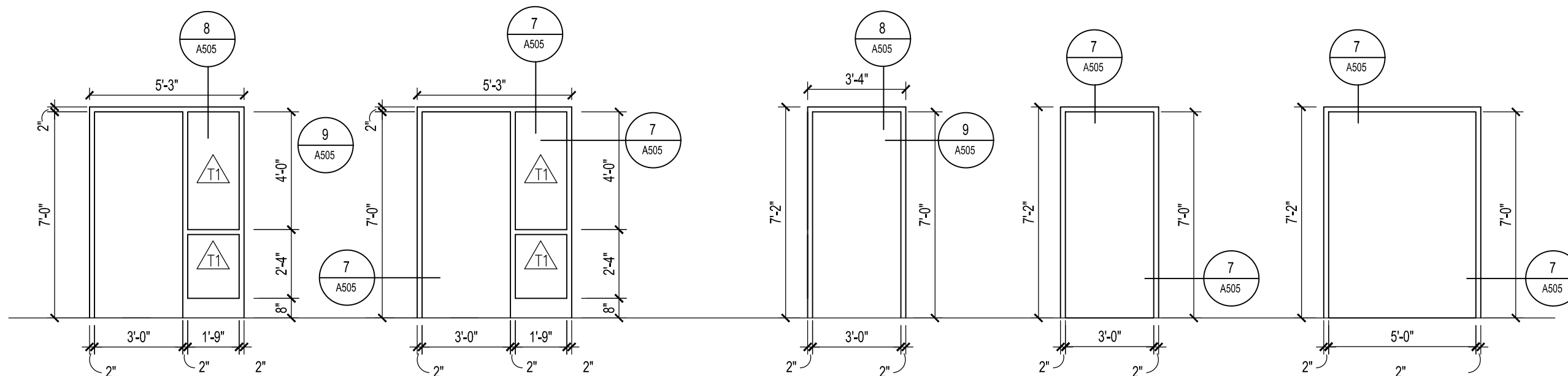
SCALE: 1/4"= 1'-0"



INSULATED, TEMPERED
1-INCH GLASS UNITS



TEMPERED, 1/4" GLASS



ALUMINUM CLAD WOOD DOOR
FRAME

FRAME TYPE 1

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

PAINTED HOLLOW METAL
DOOR/WINDOW FRAME

FRAME TYPE 2

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

ALUMINUM CLAD WOOD DOOR
FRAME

FRAME TYPE 3

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

PAINTED HOLLOW METAL
DOOR/WINDOW FRAME

FRAME TYPE 4

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

PAINTED HOLLOW METAL
DOOR/WINDOW FRAME

FRAME TYPE 5

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



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



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Fred

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION

ASHLEY
NATIONAL FOREST

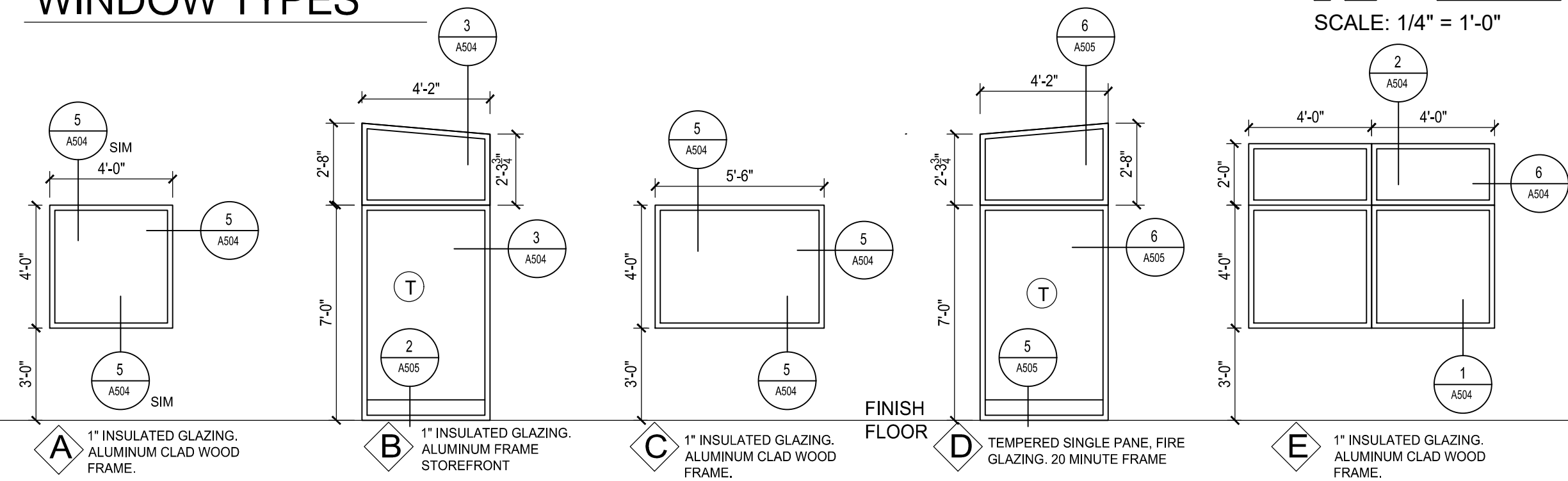
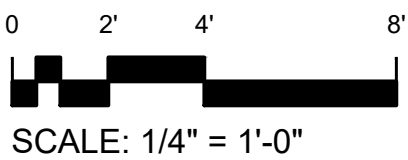
FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

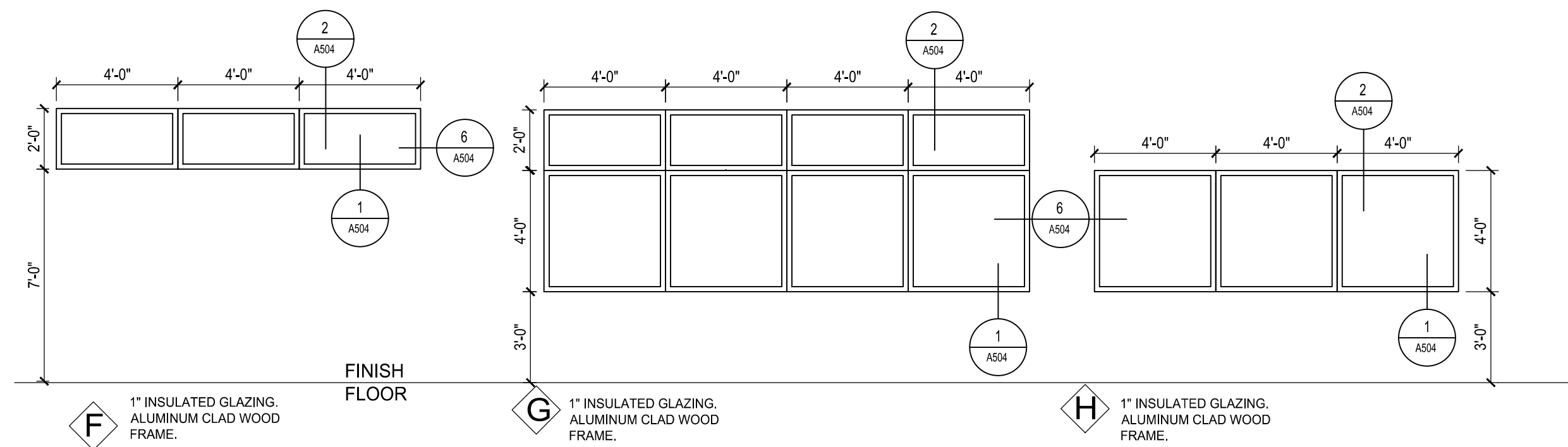
DOOR AND FRAME
TYPE ELEVATIONS

DATE 11/16/2018	ARCHIVE NO.
DESIGNER C. LEWIS	DRAWING SHEET NO. A703
DRAWN SMHW	
CHECKED D. JEPPESEN	
PROJECT NO. 644	SHEET 62 OF 119

WINDOW TYPES



* ALL WINDOWS SHALL BE FIELD MEASURED ON SITE BEFORE FABRICATED.





United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS		
s/s Regina Freed		
4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

**FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION**

**ASHLEY
NATIONAL FOREST**

FLAMING GORGE RANGER DISTRICT

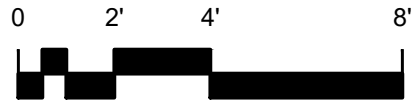
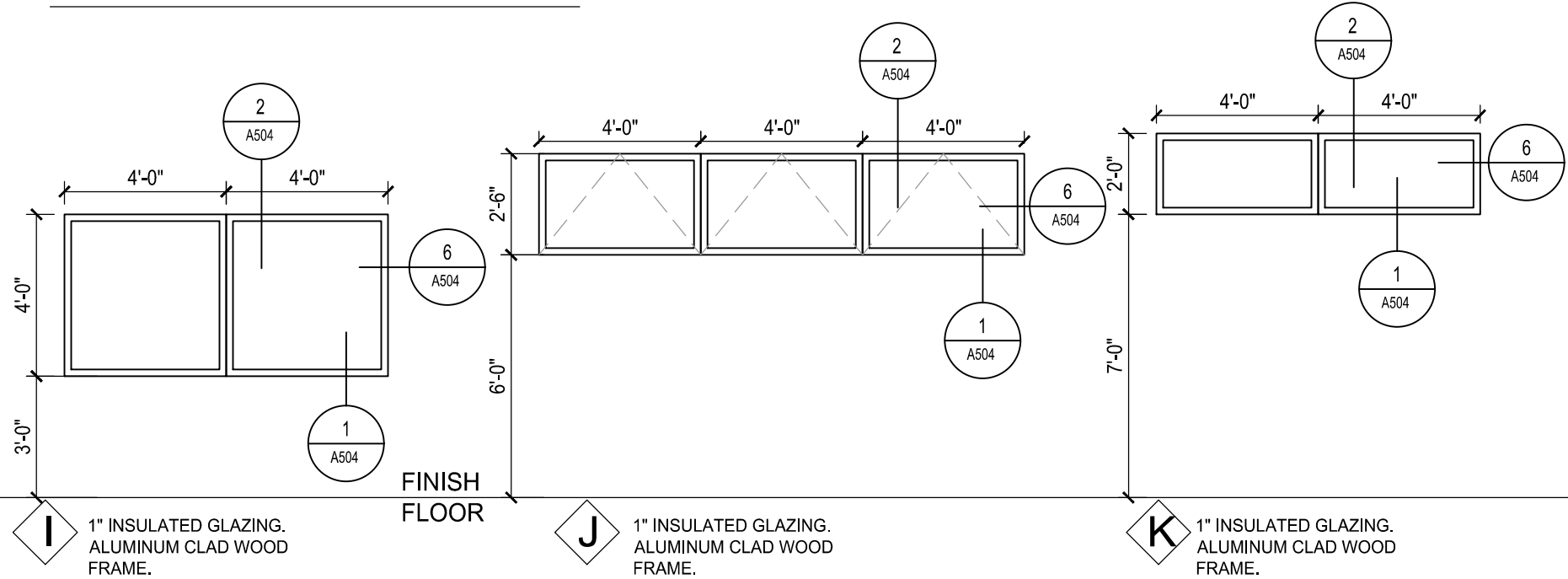
DRAWING TITLE

WINDOW ELEVATIONS

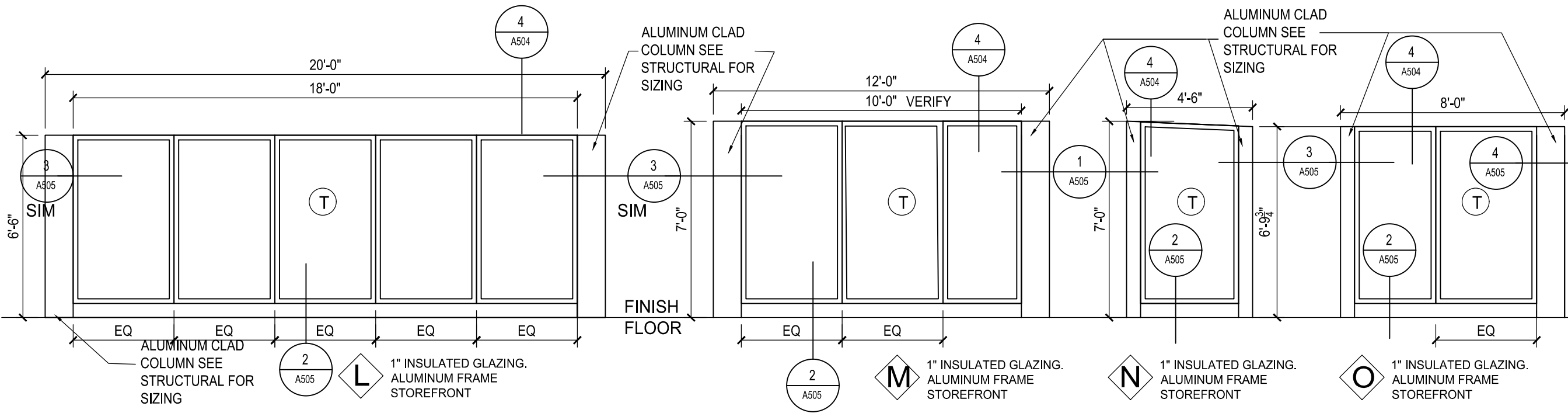
DATE 11/16/2018	ARCHIVE NO.
DESIGNER C. LEWIS	DRAWING SHEET NO. A801
DRAWN SMHW	
CHECKED D. JEPPESEN	
PROJECT NO. 644	SHEET 63 OF 119

11/16/18 17:37 SHILLWORTHEN X:ASHLEY\FLAMINGGORGERANGERDISTRICT ADDITION 2017DWG\644.A801.A802.803 WINDOW ELEVATIONS.DWG;

WINDOW TYPES



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



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Fred

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION

ASHLEY
NATIONAL FOREST

FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

WINDOW ELEVATIONS

DATE 11/16/2018	ARCHIVE NO.
DESIGNER C. LEWIS	DRAWING SHEET NO. A802
DRAWN SMHW	
CHECKED D. JEPPESEN	
PROJECT NO. 644	SHEET 64 OF 119


11/26/18 14:18 SHILLWORTHEN X:ASHLEY\FLAMINGGORGERANGERDISTRICT ADDITION 2017DWG\644.A900.FINISHLEGEND-SCHEDULE.DWG;

FINISH LEGEND:

SYMBOL	FINISH FLOOR	NOTES (SEE ALSO ROOM FINISH NOTES)
<div>CP1</div>	COMMERCIAL GRADE CARPET TILE	BASIS OF DESIGN: TANDUS FLOORING: DISTRICT #03500, COLOR SILVER PLATE #79005 OR APPROVED BY COR
<div>CT1</div>	CERAMIC TILE(MAIN FLOORS): 12" x 24" CERAMIC TILE(SHOWER FLOORS: 2" x 4"	BASIS OF DESIGN, DALTILE: GLAZED CERAMIC TILE, DALTILE: BALANS "BA32 GREY" OR AS SELECTED BY COR
<div>CSC</div>	STAINED, SEALED, AND POLISHED CONCRETE	CONCRETE FLOOR TO BE POLISHED AND SEALED W/ CONCRETE CHEMICAL HARDENDER, SEALER AND DENSIFIER. SEE SPECIFICATIONS.
<div>EM</div>	ENTRY MAT SYSTEM	BASIS OF DESIGN: PAWLING CORP., SERIES RG-250-AA "DRAIN WELL - #519 NEAR BLACK
<div>WF</div>	WOOD FLOORING	1" X 4" HICKORY, FACTORY FINIHSED WOOD FLOOR/ SEE SPEC.
	BASE	
<div>CTB</div>	CERAMIC TILE: 12" x 24"	BASIS OF DESIGN, DALTILE: GLAZED CERAMIC TILE, DALTILE: BALANS "BA31 BEIGE"
<div>RB1</div>	6" RUBBER BASE	BASIS OF DESIGN: ROPPE - PINNACLE RUBBER BASE, STANDARD TOE, COLOR P194, BURNT UMBER OR AS SELECTED BY COR
<div>WB</div>	WOOD BASE	BASIS OF DESIGN: HICKORY 1" X 4" BASE, FACTORY FINISHED
	WALLS	
<div>CWT</div>	CERAMIC TILE(MAIN FLOORS): 4 X 12" 6" TALL WALL ACCENT TILE:	BASIS OF DESIGN, DALTILE: GLAZED CERAMIC TILE, DALTILE: BALANS "BA31 BEIGE" BASIS OF DESIGN, DALTILE ENDEAVORS SERIES. COLOR: F158 MEDITATION
<div>GPW</div>	TYPE "X" GYPSUM BOARD WALLS. USE WATERPROOF GYP GREEN BRD IN BATHROOMS, AND CUSTODIAL. PAINT WHERE EXPOSED.	BASIS OF DESIGN: SHERWIN WILLIAMS - EIDER WHITE SW 7014
<div>FRP</div>	FRP. (WHERE A WALL TYPE PROVIDES A GYP. BD. SUBSTRATE PROVIDE P1 ABOVE & AROUND FRP)	BASIS OF DESIGN "DYNAGLASS BY CHICAGO METALLIC, LITE GREY #405, TEXTURED"
	CEILINGS	
<div>GPC</div>	TYPE "X" GYPSUM BOARD CEILING. USE WATERPROOF GYP GREEN BRD IN BATHROOMS, AND CUSTODIAL. PAINT WHERE EXPOSED.	BASIS OF DESIGN: SHERWIN WILLIAMS - EIDER WHITE SW 7014
<div>TG</div>	STAINED TONGUE & GROOVE	DOUGLAS FIR W/ SHERWIN WILLIAMS MW 411, BIRCHBARK

PAINT LEGEND

<div>P1</div>	PAINT	BASIS OF DESIGN: SHERWIN WILLIAMS - SW7014 EIDER WHITE
	MILLWORK	
<div>SF1</div>	SOLID SURFACE COUNTERTOPS AND SOLID SURFACE SEAT	CORIAN BY DUPONT, COLOR: SILVER BIRCH
<div>TP</div>	TOILET PARTITIONS	BASIS OF DESIGN: BOBRICK HIGH PRESSURE LAMINATE: COLOR SHADOW D96-60
<div>LC</div>	HIGH PRESSURE LAMINATE CABINETRY	BASIS OF DESIGN: WILSONART: COCOA LINE Y0608
	WOOD	
<div>WS1</div>	ARCHITECTURAL WOOD DOORS	BASIS OF DESIGN: BIRCH W/ SHERWIN WILLIAMS BRAZILNUT SW 3130-B
<div>WS2</div>	WOOD WINDOW FRAMES	BASIS OF DESIGN: BIRCH W/ SHERWIN WILLIAMS BRAZILNUT SW 3130-B
	WINDOW TREATMENT	
<div>WDF</div>	WINDOW SHADES	BASIS OF DESIGN: HUNTER DOUGLAS, ROLLER SHADES, COLOR AS SELECTED BY COR. SEE SPECIFICATION
	EXTERIORS	
	PAINTED COMPOSITE SIDING PANELS	BASIS OF DESIGN: HARDIEPLANK "REVEAL" FLAT PANELS SYSTEM COLOR: "GRAY SLATE" PAINT AFTER INSTALLATION TO MATCH
	WEATHERING STEEL SIDING	BASIS OF DESIGN: CONCEALED FASTENER WEATHERING STEEL CORTEN PANELS, 0.04 IN. THICK, KOVACH OR APPROVED EQUAL. SEE SPECIFICATION
	ALUMINUM CLAD WOOD WINDOWS AND DOORS	COLOR: BRONZE
	ALUMINUM FRAME FIXED STOREFRONT	COLOR:BRONZE
	DOUG FIR TONGUE AND GROOVE	DOUGLAS FIR W/ SHERWIN WILLIAMS WEATHERED TEAK SW 3134-P
	STANDING SEAM METAL ROOFING	METAL ROOFING SEE SPEC., COLOR: WEATHERED GALVALUME OR APPROVED EQUAL
	METAL FLASHING	SEE SPEC., COLOR: BRONZE



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

4

11/29/18

3

2

1

NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION

ASHLEY
NATIONAL FOREST

FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

FINISH LEGEND


DATE 11/16/2018	ARCHIVE NO.
DESIGNER C. LEWIS	DRAWING SHEET NO. A901
DRAWN SMHW	
CHECKED D. JEPPISEN	
PROJECT NO. 644	SHEET 65 OF 119

11/26/18 14:18 SHILLWORTHEN X:ASHLEY\FLAMINGGORGERANGERDISTRICT.ADDITION.2017DWG\644.A900.FINISHLEGEND-SCHEDULE.DWG;

FINISH SCHEDULE																			
ROOM	ROOM NAME	BASE			FLOORING					WALLS							CEILING		
		6" CERAMIC TILE BASE	6" RUBBER BASE	WOOD BASE	CARPET	CERAMIC TILE	STAINED, SEALED AND POLISHED CONCRETE	ENTRY MAT SYSTEM	WOOD FLOOR	PAINT COLOR 1	ALUMINUM STOREFRONT COLOR:BRONZE	WOOD STAIN (WOOD DOORS/CABINETRY)	WINDOW SHADES	CERAMIC WALL TILE	GYP BRD WALL PAINTED	FIBERGLASS REINFORCED PANEL	GYP. BC. CEILING. PAINT	TONGUE AND GROOVE CEILING	OPEN TO ROOF JOISTS
		CTB	RB	WB	CP	CT	CSC	EM	WF	P1	AF	WS	WDF	CWT	GPW	FRP	GPC	TG	O
101	ENTRY			●			●	●		●		●			●		●		
102	HALL			●			●		●	●		●			●			●	
103	BRIDGE			●					●	●	●	●						●	
104	CONFERENCE		●		●					●		●	●		●		●		
105	BREAK ROOM		●		●					●	●	●	●	●	●		●		
106	OFFICE		●		●					●		●	●		●		●		
107	HALL			●		●	●			●		●		●	●		●		
108	MENS	●				●				●		●		●	●		●		
109	WOMENS	●				●				●		●		●	●		●		
110	CUSTODIAL		●				●			●		●			●	●	●		
111	MECHANICAL		●				●			●		●			●				●
112	COPY		●				●			●		●			●		●		
113	OFFICE		●		●					●		●	●		●		●		
114	STORAGE		●		●					●		●			●		●		
115	OPEN OFFICE		●		●					●		●	●		●		●		
116	OPEN OFFICE		●		●		●			●		●	●		●		●		
117	OPEN OFFICE		●		●		●			●		●	●		●		●		

GENERAL NOTES:

SEE FINISH LEGEND ON A901.



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Freed

4

11/29/18

3

2

1

NO.

REVISION / ISSUE

DATE

PROJECT NAME

FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION

ASHLEY
NATIONAL FOREST

FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

FINISH SCHEDULE

DATE
11/16/2018

ARCHIVE NO.

DESIGNER
C. LEWIS

DRAWN
SMHW

CHECKED
D. JEPPISEN

PROJECT NO.
644

DRAWING SHEET NO.
A902

SHEET 66 OF 119

11/16/18 17:39 SHILLWORTHEN X:ASHLEY\FLAMINGGORGERANGERDISTRICT.ADDITION.2017DWG\644.A903.ACCESSORYSCHEDULES.DWG;

ACCESSORY SCHEDULE

PROVIDE BLOCKING IN WALLS FOR ALL EQUIPMENT LISTED BELOW AND SHOWN ELSEWHERE IN DRAWINGS AS REQ'D BY MANUF. RECOMMENDATIONS. ALL ITEMS CONTRACTOR PROVIDED AND CONTRACTOR INSTALLED

ITEM	MODEL	ROOM NUMBERS	COMMENTS
36" STAINLESS STEEL GRAB BARS.	MODEL: B-6806-36	108, 1 EA 109, 1 EA	BOBRICK OR EQUAL
42" STAINLESS STEEL GRAB BARS	MODEL: B-6806-42	108, 1 EA 109, 1 EA	BOBRICK OR EQUAL
18" STAINLESS STEEL GRAB BARS	MODEL: B-6806-18	108, 1 EA 109, 1 EA	BOBRICK OR EQUAL
TOILET PAPER HOLDER - 1 PER TOILET	MODEL: B-2888	108, 1 EA 109, 2 EA	BOBRICK OR EQUAL
COUNTER MOUNTED SOAP DISPENSERS	MODEL: B-823	108, 1 EA 109, 1 EA	BOBRICK OR EQUAL
WALL MOUNTED TOWEL DISPENSER AND WASTE RECEPTACLE	MODEL: B-3942	108, 1 EA 109, 1 EA	BOBRICK OR EQUAL
SHOWER GRAB BAR (CORNER GRAB BAR)	MODEL: B-58616	108, 1 EA 109, 1 EA	BOBRICK OR EQUAL
SHOWER BENCH SEAT	MODEL: B-5192	108, 1 EA 109, 1 EA	BOBRICK OR EQUAL
SHOWER BASKET	MODEL: K-1896-S	108, 1 EA 109, 1 EA	KOHLER OR EQUAL
36 x36 STAINLESS STEEL MIRROR	MODEL: B-290 3636	108, 1 EA 109, 1 EA	BOBRICK OR EQUAL
24 x48 STAINLESS STEEL MIRROR	MODEL: B-290 2448	108, 1 EA 109, 1 EA	BOBRICK OR EQUAL
STAINLESS STEEL ROBE HOOK	MODEL: B-233	108, 2 EA 109, 2 EA	BOBRICK OR EQUAL
STAINLESS STEEL SHOWER CURTAIN ROD	CUSTOM MADE	108, 1 EA 109, 1 EA	BUYRAILINGS.COM OR EQUAL
STAINLESS STEEL SHOWER CURTAIN ROD	MODEL: B-207	108, 1 EA 109, 1 EA	BOBRICK OR EQUAL
SANITARY NAPKIN DISPOSAL	MODEL: B-254	109, 2 EA	BOBRICK OR EQUAL
LAVATORY WRAP	MODEL:HANDY-SHIELD-MAXX	108, 1 EA 109, 1 EA	PLUMEREX OR EQUAL
SHOWER CURTAINS & HOOKS	MODELS: 204-1 204-2	108, 1 EA, VERIFY W/ COR 109, 1 EA, VERIFY W/ COR	BOBRICK OR EQUAL
SHOWER CURTAINS & HOOKS FOR CUSTOM CURTAIN ROD	MODELS: 1200-SHU 204-3	108, 1 EA, VERIFY W/ COR 109, 1 EA, VERIFY W/ COR	ASI AND BOBRICK OR EQUAL
TOILET SEAT COVER DISPENSER	MODEL: B-221	108, 1 EA 109, 2 EA	BOBRICK OR EQUAL
STAINLESS MOP & BROOM HOLDER	MODEL: B-223X 24	110, 1 EA	BOBRICK OR EQUAL
HAND DRYER	MODEL:XLERATOR MODEL XL-SB	108, 1 EA 109, 1 EA	EXCEL DRYER OR EQUAL

APPLIANCE / EQUIPMENT SCHEDULE

SEE SPECIFICATIONS FOR MORE INFORMATION ON MODELS AND GUIDELINES FOR APPROVED EQUALS.

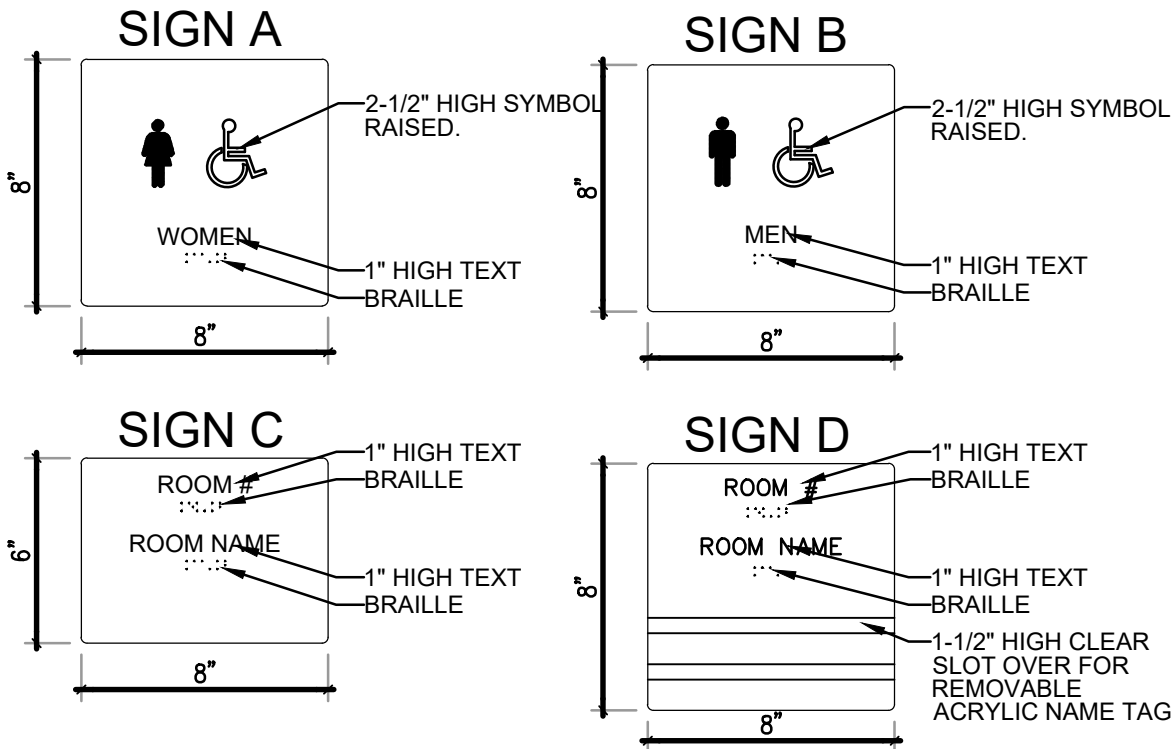
ITEM	MODEL	ROOM NUMBERS	COMMENTS
REFRIGERATOR	MODEL: Kenmore 51783, Energy Star Rated, Side-by-Side Refrigerator with Ice and Water Dispenser. Stainless Steel Finish. 25 cu ft	105, 1 EA	
MICROWAVE	MODEL: Sharp SMC1442CS, Countertop Microwave Oven, Stainless Steel finish. 1.4 cu ft.	105, 1 EA	

ROOM SIGNAGE NOTES:

	QTY.	NOTES:	ROOMS
SIGN A	1	WALL MOUNTED SIGNAGE TO BE LOCATED ON LATCH SIDE OF DOOR CLEAR OF DOOR-SWING. MOUNT AT 60" TO CENTERLINE OF SIGN FROM FLOOR	109
	1	WALL MOUNTED SIGNAGE TO BE LOCATED ON LATCH SIDE OF DOOR CLEAR OF DOOR-SWING. MOUNT AT 60" TO CENTERLINE OF SIGN FROM FLOOR	108
SIGN B	2	WALL MOUNTED SIGNAGE TO BE LOCATED ON LATCH SIDE OF DOOR CLEAR OF DOOR-SWING. MOUNT AT 60" TO CENTERLINE OF SIGN FROM FLOOR	104, 105, 110, 111, 115, 114, 117
SIGN C	7	WALL MOUNTED SIGNAGE TO BE LOCATED ON LATCH SIDE OF DOOR CLEAR OF DOOR-SWING. MOUNT AT 60" TO CENTERLINE OF SIGN FROM FLOOR	106, 113

SIGNAGE SCHEDULE:

- ALL INTERIOR SIGNAGE IS TO BE PROVIDED FOR EVERY ROOM & INSTALLED BY THE CONTRACTOR.
- ALL SIGNAGE SHALL MEET ADA REQUIREMENTS.
- U.N.O. SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. IN THE EVENT THIS IS NOT POSSIBLE, NOTIFY CONTRACTING OFFICER AND AWAIT INSTRUCTIONS.
- COLORS AND FONTS SELECTED BY CONTRACTING OFFICER.
- SEE SITE PLAN FOR EXTERIOR SIGN REQUIREMENTS.
- ROOM TITLES SHALL BE GIVEN AND VERIFIED BY CONTRACTING OFFICER.



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Fred

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

**FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION**

**ASHLEY
NATIONAL FOREST**

FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

**ACCESSORY/APPLIANCE
AND SIGNAGE SCHEDULE**

DATE 11/16/2018	ARCHIVE NO.
DESIGNER C. LEWIS	DRAWING SHEET NO. A903
DRAWN SMHW	
CHECKED D. JEPPISEN	
PROJECT NO. 644	SHEET 67 OF 119

11/16/2018 3:07:05 PM



C:\Users\JasonR\Documents\18037 - Flaming Gorge Ranger Office Addition-2018_JasonR@arwengineers.com.rvt

STRUCTURAL NOTES :

A. GENERAL

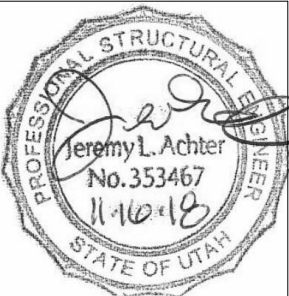
1. THE STRUCTURAL NOTES ARE INTENDED TO COMPLEMENT THE PROJECT SPECIFICATIONS WHICH ARE PART OF THE CONSTRUCTION DOCUMENTS. SPECIFIC NOTES AND DETAILS ON THE DRAWINGS SHALL GOVERN OVER THE STRUCTURAL NOTES AND TYPICAL DETAILS.
2. THESE DRAWINGS (AND, WHERE APPLICABLE, ACCOMPANYING WRITTEN SPECIFICATIONS) ARE THE ONLY CONTRACT DOCUMENTS PROVIDED BY ARW ENGINEERS FOR THE PROJECT REPRESENTED HEREIN. NOTHING IN ANY DIGITAL MODEL OR DIGITAL FILE RELATED TO THIS PROJECT SHALL BE TAKEN TO SUPERSEDE ANY INFORMATION SHOWN IN THESE DRAWINGS (INCLUDING, BUT NOT LIMITED TO, DIMENSIONS, SIZES, ETC).
3. THE ARCHITECTURAL DRAWINGS ARE THE PRIME CONTRACT DRAWINGS. THE STRUCTURAL DRAWINGS ARE SUPPLEMENTARY TO AND MUST BE USED IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS AND OTHER CONSULTANTS DRAWINGS. ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTING OFFICER AND STRUCTURAL ENGINEER BEFORE PROCEEDING WITH ANY WORK INVOLVED. IN CASE OF CONFLICT, FOLLOW THE MOST STRINGENT REQUIREMENT AS DIRECTED BY THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
4. SEE SPECIFICATIONS FOR REQUIRED SUBMITTALS. SUBMITTALS SHALL BE MADE IN A TIMELY MANNER AS INDICATED IN SPECIFICATIONS. REVIEW OF SUBMITTALS BY ARW ENGINEERS IS FOR GENERAL COMPLIANCE ONLY AND IS NOT INTENDED AS APPROVAL. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL SIZES, DIMENSIONS, AND ELEVATIONS ON SUBMITTALS AS RELATED TO DESIGN DOCUMENTS. PREPARATION OF SHOP DRAWINGS FOR STRUCTURAL ELEMENTS WILL REQUIRE INFORMATION (I.E. DIMENSIONS, ETC.) FOUND IN THE ARCHITECTURAL, STRUCTURAL, AND OTHER CONSULTANTS DRAWINGS.
5. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE SITE. IF ACTUAL CONDITIONS DIFFER FROM THOSE SHOWN ON CONTRACT DOCUMENTS, CONTRACTOR SHALL NOTIFY CONTRACTING OFFICER PRIOR TO FABRICATION OR CONSTRUCTION OF ANY AFFECTED ELEMENTS.
6. THE CONTRACTOR SHALL COORDINATE AND VERIFY ALL LOCATIONS AND SIZES OF MECHANICAL EQUIPMENT OR OTHER EQUIPMENT BEFORE FABRICATING AND ERECTING STRUCTURAL ELEMENTS. SIZES AND LOCATIONS THAT DIFFER FROM THOSE SHOWN ON THE CONTRACT DOCUMENTS SHALL BE REPORTED TO THE CONTRACTING OFFICER.
7. THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST TO THE CONTRACTING OFFICER FOR CONTRACTING OFFICER APPROVAL BEFORE PROCEEDING WITH ANY CHANGES, MODIFICATIONS, OR SUBSTITUTIONS.
8. OBSERVATION VISITS TO THE SITE BY ARW ENGINEERS FIELD REPRESENTATIVES SHALL NEITHER BE CONSTRUED AS INSPECTION NOR APPROVAL OF CONSTRUCTION.
9. DURING AND AFTER CONSTRUCTION, BUILDER AND/OR OWNER SHALL KEEP LOADS ON STRUCTURE WITHIN THE LIMITS OF DESIGN LOADS AS NOTED IN THESE DOCUMENTS.
10. TYPICAL OR SIMILAR DETAILS AND SECTIONS SHALL APPLY WHERE SPECIFIC DETAILS ARE NOT SHOWN. TYPICAL OR SIMILAR DETAILS REFER TO THE CONDITION ADDRESSED AND ARE NOT NECESSARILY DETAILS LABELED "TYPICAL" OR "SIMILAR" IN THE PLANS AND DOCUMENTS.
11. DRAWINGS AND DETAILS HAVE BEEN PREPARED WITH THE INTENT TO VISUALLY REPRESENT INFORMATION PROVIDED IN SCALED FORM; HOWEVER CONTRACTOR/SUPPLIERS SHOULD NOT SCALE PLANS OR DETAILS FOR DIMENSIONAL INFORMATION.
12. THE CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY SHORING AND BRACING FOR ALL STRUCTURAL ELEMENTS UNTIL THE ENTIRE STRUCTURAL SYSTEM IS COMPLETED. DESIGN OF ALL SHORING AND BRACING IS BY OTHERS AT NO ADDITIONAL COST TO THE OWNER.
13. ENGINEER SHALL NOT BE RESPONSIBLE FOR ACTIVITIES UNDER CONTROL OF THE CONTRACTOR SUCH AS CONSTRUCTION SITE SAFETY, MEANS, METHODS AND SEQUENCING OF CONSTRUCTION. ENGINEER SHALL NOT BE RESPONSIBLE FOR FABRICATION, ERECTION AND CONSTRUCTION REQUIREMENTS AS PRESCRIBED BY OSHA OR OTHER REGULATORY AGENCIES REGARDLESS OF INDICATIONS IN THESE DOCUMENTS.
14. NOTICE OF COPYRIGHT: THESE STRUCTURAL DRAWINGS ARE HEREBY COPYRIGHTED BY ARW ENGINEERS, ALL RIGHTS RESERVED. THESE DOCUMENTS DEFINE A STRUCTURE AND ARE INSTRUMENTS OF SERVICE, FOR ONE USE ONLY. REPRODUCTION AND DISTRIBUTION OF THESE DRAWINGS IS ONLY ALLOWED AS REQUIRED FOR REGULATORY AGENCIES AND FOR CONVEYANCE OF INFORMATION TO PARTIES INVOLVED IN THE CONSTRUCTION OF THIS PROJECT. THESE DOCUMENTS SHALL NOT BE REPRODUCED OR COPIED, IN PART OR WHOLE BY ANY PARTY FOR USE IN PREPARATION OF SHOP DRAWINGS OR OTHER SUBMITTALS.

Structural Sheet Index	
SHEET NUMBER	SHEET NAME
S001	STRUCTURAL NOTES
S002	STRUCTURAL NOTES
S003	STRUCTURAL NOTES
S004	STRUCTURAL NOTES
S005	STRUCTURAL NOTES
S006	SCHEDULES
S007	SCHEDULES
S008	SCHEDULES
S009	SCHEDULES
S010	SCHEDULES
S011	SCHEDULES
S012	SCHEDULES
S013	SCHEDULES
S014	SCHEDULES
S101	FOOTING AND FOUNDATION PLAN
S102	ROOF FRAMING PLAN
S201	DETAILS
S202	DETAILS
S203	DETAILS
S204	DETAILS
S205	DETAILS
S206	DETAILS
S207	DETAILS
S208	DETAILS
S209	DETAILS
S401	SCHEMATIC REFERENCE



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION



4

s/s Regina Fred

3

11/29/18

2

1

NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION

ASHLEY
NATIONAL FOREST

FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

STRUCTURAL
NOTES

DATE 11/16/2018	ARCHIVE NO.
DESIGNER JLA	DRAWING SHEET NO. S001
DRAWN RK	
CHECKED JLA	
PROJECT NO. 18037.A	SHEET 68 OF 119

B. STATEMENT OF SPECIAL INSPECTIONS AND SPECIAL INSPECTIONS

1. THE DESIGNATED SEISMIC/WIND SYSTEMS AND SEISMIC/WIND-FORCE-RESISTING SYSTEMS THAT ARE SUBJECT TO SPECIAL INSPECTIONS IN ACCORDANCE WITH IBC SECTION 1705.11 AND 1705.12 ARE IDENTIFIED ON THESE DOCUMENTS WITH A CIRCLE “L”. ALL OTHER ITEMS REQUIRING SPECIAL INSPECTION ARE IDENTIFIED IN THE SPECIAL INSPECTIONS SCHEDULE ON SHEET S010-S014.
2. SPECIAL INSPECTIONS AND TESTING ARE TO BE PROVIDED AS REQUIRED BY IBC SECTIONS 1704 THROUGH 1705 AND OTHER APPLICABLE SECTIONS OF THE IBC. THE TYPE AND FREQUENCY OF TESTING AND SPECIAL INSPECTIONS SHALL BE AS NOTED IN THE SPECIAL INSPECTION SCHEDULE, JOB SPECIFICATIONS, AND ACCORDANCE WITH IBC SECTION 110 AND CHAPTER 17. CONTRACTOR SHALL COORDINATE AND COOPERATE WITH REQUIRED INSPECTIONS.
3. ALL TESTING AND SPECIAL INSPECTION SHALL BE PROVIDED BY A QUALIFIED INDEPENDENT SPECIAL INSPECTION AGENCY IN ACCORDANCE WITH IBC 1704 AND AS OUTLINED IN THE JOB SPECIFICATIONS. REPORTS OF FINDINGS OR DISCREPANCIES SHALL BE NOTED AND FORWARDED TO THE CONTRACTING OFFICER IN A TIMELY MANNER.
4. STRUCTURAL OBSERVATION VISITS SHALL BE PERFORMED BY A REPRESENTATIVE FROM ARW ENGINEERS IN ACCORDANCE WITH THE CONTRACT AS NEEDED TO OBSERVE THE CONSTRUCTION OF CRITICAL BUILDING ELEMENTS (I.E. FOOTINGS, BRACED FRAMES, MOMENT FRAMES, DRAG STRUTS AND THEIR CONNECTIONS, COLLECTORS, AND ROOF AND FLOOR DIAPHRAGMS). STRUCTURAL OBSERVATION REPORTS FOR EACH VISIT SHALL BE SENT DIRECTLY TO THE ARCHITECT FOR DISTRIBUTION TO THE CONTRACTOR AND BUILDING OFFICIAL. STRUCTURAL OBSERVATION VISITS SHALL NEITHER BE CONSTRUED AS SPECIAL INSPECTION NOR APPROVAL OF COMPLETED CONSTRUCTION.
5. IN ACCORDANCE WITH IBC 1704.4, THE CONTRACTOR SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE CONTRACTING OFFICER AND OWNER. THE STATEMENT SHALL BE SUBMITTED PRIOR TO THE CONSTRUCTION OF ANY SEISMIC/WIND-FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC/WIND SYSTEM, OR COMPONENT IDENTIFIED IN THESE DOCUMENTS WITH A CIRCLE “L”.

C. BASIS OF DESIGN

1. GOVERNING BUILDING CODE : INTERNATIONAL BUILDING CODE (IBC) 2015
RISK CATEGORY : II
2. FLOOR LOADS

a. LIVE LOAD = 100 PSF

b. DEAD LOAD = AS REQUIRED
3. ROOF LOADS

a. FLAT-ROOF SNOW LOAD, P_f : 30 PSF

1. GROUND SNOW LOAD, P_g : 43 PSF

2. SNOW EXPOSURE FACTOR, C_e : 1.0

3. SNOW LOAD IMPORTANCE FACTOR, I_s : 1.0

4. THERMAL FACTOR, C_t : 1.0

b. LIVE LOAD = 20 PSF

c. DEAD LOAD = 20 PSF
4. WIND DESIGN

a. BASIC WIND SPEED (3 SECOND GUST) : 115 MPH

b. WIND EXPOSURE : C

c. COMPONENT AND CLADDING DESIGN WIND PRESSURE SHALL BE AS REQUIRED PER ASCE 7-10.
5. SEISMIC DESIGN :

a. SEISMIC IMPORTANCE FACTOR, I_E : 1.0

b. SITE CLASS : D

c. MAPPED SPECTRAL RESPONSE ACCELERATIONS : $S_S = 0.310$, $S_1 = 0.102$

d. SPECTRAL RESPONSE COEFFICIENTS : $S_{DS} = 0.321$, $S_{D1} = 0.162$

e. SEISMIC DESIGN CATEGORY : C

f. BASIC SEISMIC-FORCE-RESISTING SYSTEM : LIGHT FRAMED WALLS SHEATHED W/ WOOD STRUCTURAL PANELS

g. DESIGN BASE SHEAR : $V_{N-S} = C_s \times W$, $V_{E-W} = C_s \times W$

h. SEISMIC RESPONSE COEFFICIENT, C_s : 6.05

i. RESPONSE MODIFICATION FACTOR, R : 6.5

j. ANALYSIS PROCEDURE : EQUIVALENT LATERAL FORCE PROCEDURE

D. FOUNDATION

1. DESIGN SOIL PRESSURE : 1500 PSF
2. SOILS REPORT BY : TODD TOUCHARD, P.E., USFS INTERMOUNTAIN REGION
DATED : FEBRUARY 2, 2018
3. SOIL PREPARATION UNDER FOOTINGS AND SLABS-ON-GRADE SHALL BE IN ACCORDANCE WITH THE SOILS REPORT.
4. TOP OF FOOTING ELEVATIONS SHOWN ON THE FOOTING AND FOUNDATION PLAN ARE BASED ON PRELIMINARY GRADING INFORMATION AND MUST BE VERIFIED PRIOR TO CONSTRUCTION. STEPS WHERE SHOWN ARE AT APPROXIMATE LOCATIONS. ALL EXTERIOR FOOTINGS MUST BEAR A MINIMUM OF 30 INCHES BELOW LOWEST ADJACENT FINAL GRADE.
5. ALL WALLS (EXCEPT CANTILEVERED RETAINING WALLS) SHALL BE ADEQUATELY BRACED AGAINST LATERAL MOVEMENT PRIOR TO BACKFILLING. DESIGN AND ERECTION OF BRACING/SHORING IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. BRACING SHALL REMAIN IN PLACE UNTIL SUPPORTING STRUCTURAL ELEMENTS ARE IN PLACE AND HAVE ATTAINED FULL STRENGTH.
6. UNLESS NOTED OTHERWISE, ALL FOOTINGS AT COLUMNS TO BE CENTERED BELOW COLUMNS.
7. UNLESS NOTED OTHERWISE, ALL FOOTINGS SHALL HAVE VERTICAL FACES FORMED WITH STANDARD FORMING MATERIALS (WOOD, METAL, ETC.). WITH PRIOR APPROVAL OF CONTRACTING OFFICER, CONCRETE FOR FOOTINGS CAN BE PLACED IN EXCAVATED “SOIL” FORMS PROVIDED THAT THE DIMENSIONS ARE INCREASED 3” ON EACH SIDE.

E. CONCRETE

1. ALL CONCRETE MIX DESIGNS SHALL COMPLY WITH THE REQUIREMENTS LISTED BELOW :

a. FOOTINGS (EXPOSURE CATEGORY F0) :

1. 28 DAY COMPRESSIVE STRENGTH : 3000 PSI

b. FOUNDATION WALLS (EXPOSURE CATGEORY F1) :

1. 28 DAY COMPRESSIVE STRENGTH : 4500 PSI

2. MAXIMUM W/C RATIO : 0.45

3. MAXIMUM AGGREGATE SIZE : 1”

4. AIR CONTENT : 4.5% +/- 1.5%

c. INTERIOR SLABS ON GRADE (EXPOSURE CATEGORY F0) :

1. 28 DAY COMPRESSIVE STRENGTH : 3000 PSI

d. EXTERIOR SLABS (DOCKS, ETC.) (EXPOSURE CATEGORY F1) :

1. 28 DAY COMPRESSIVE STRENGTH : 4500 PSI

2. MAXIMUM W/C RATIO : 0.45

3. MAXIMUM AGGREGATE SIZE : 1”

4. MINIMUM AIR CONTENT : 4.5% +/- 1.5%

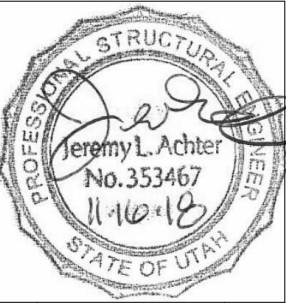
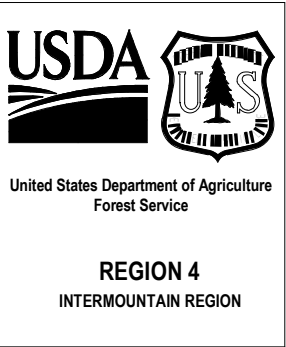
2. WATER USED IN MIXING CONCRETE SHALL CONFORM TO ASTM C1602.

3. NO PIPES, DUCTS, SLEEVES, ETC. SHALL BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED OR APPROVED BY THE STRUCTURAL ENGINEER. NO ALUMINUM PRODUCTS SHALL BE EMBEDDED IN CONCRETE. PENETRATIONS THRU STRUCTURAL CONCRETE ELEMENTS MUST BE APPROVED BY THE ENGINEER AND SHALL BE BUILT INTO THE ELEMENT PRIOR TO CONCRETE PLACEMENT.

4. REFER TO ARCHITECTURAL DRAWINGS FOR MOLDS, GROOVES, ORNAMENTS, ETC. TO BE CAST IN TO CONCRETE, AND FOR EXTENT AND LOCATION OF DEPRESSIONS, CURBS, RAMPS, ETC.

5. UNLESS NOTED OTHERWISE, MINIMUM REINFORCING IN ALL CONCRETE WALLS SHALL BE AS FOLLOWS:

THICKNESS	TOP & BOTTOM BARS	VERTICAL	HORIZONTAL
8”	(2) #5	#5 AT 12”O.C.	#5 AT 12”O.C.



4	s/s Regina Freel	
3	11/29/18	
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION

ASHLEY
NATIONAL FOREST

FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

STRUCTURAL
NOTES

DATE 11/16/2018	ARCHIVE NO.
DESIGNER JLA	DRAWING SHEET NO. S002
DRAWN RK	
CHECKED JLA	
PROJECT NO. 18037.A	SHEET 69 OF 119

6. UNLESS NOTED OTHERWISE, CONCRETE SLABS ON EARTH SHALL BE REINFORCED AS FOLLOWS:
4" THICK - UNREINFORCED
REINFORCING SHALL BE CONTINUOUSLY SUPPORTED AT 36"O.C. MAXIMUM SPACING.
7. UNLESS NOTED OTHERWISE, FOR NON-DETAILED OPENINGS IN CONCRETE WALLS LARGER THAN 12" AND SMALLER THAN 24" IN ANY DIRECTION ADD (2) #5 BARS ON ALL SIDES IN ADDITION TO REGULAR WALL REINFORCING AND EXTEND 24" EACH WAY BEYOND OPENING. IF 24" IS NOT AVAILABLE ON EVERY SIDE, NOTIFY STRUCTURAL ENGINEER FOR FURTHER DIRECTION. OPENINGS SHALL HAVE A MINIMUM OF 12" OF CONCRETE ABOVE THE OPENING, TYP.
8. CONSTRUCTION JOINTS NOT SHOWN ON THE PLANS SHALL BE MADE AND LOCATED SO AS TO NOT IMPAIR THE STRENGTH OF THE STRUCTURE AND AS APPROVED BY THE STRUCTURAL ENGINEER. PROVIDE 2 X 4 (SHAPED) KEYWAY IN ALL VERTICAL AND HORIZONTAL JOINTS UNLESS NOTED OR DETAILED OTHERWISE. ALL STEEL REINFORCING SHALL BE CONTINUOUS THROUGH COLD JOINTS UNLESS NOTED OTHERWISE. SEE TYPICAL DETAILS FOR COLD/CONSTRUCTION JOINTS FOR SLABS ON GRADE.

F. ANCHOR BOLTS/EMBEDDED BOLTS

1. ALL ANCHOR BOLTS SHALL HAVE ASTM A-563 HEAVY HEX NUT AND ASTM F-436 WASHERS AT STANDARD OR OVERSIZED HOLES PER AISC SPECIFICATION TABLE J3.3. WHERE HOLE SIZES DO NOT COMPLY WITH THE LIMITATIONS FOR OVERSIZED HOLES THE STRUCTURAL ENGINEER SHALL BE NOTIFIED TO DETERMINE STEEL PLATE WASHER REQUIREMENTS. ANCHOR BOLTS SHALL COMPLY WITH THE FOLLOWING :
a. AT WOOD STUD WALLS - ASTM A-307 GRADE HEADED BOLTS. ANCHOR BOLTS IN TREATED LUMBER SHALL BE GALVANIZED OR STAINLESS STEEL. SEE TIMBER NOTES FOR MORE INFORMATION.
b. AT ALL OTHER ANCHOR BOLTS (UNLESS NOTED OTHERWISE) - ASTM F1554 GRADE 36 HEADED BOLTS. (ASTM A36 THREADED ROD MAY BE USED WITH DOUBLE NUT AND WASHER.)
2. SEE TYPICAL ANCHOR BOLT DETAIL FOR DEFINITIONS OF EMBEDMENT LENGTH, ETC.
3. FURNISH TEMPLATES AND OTHER DEVICES AS NECESSARY FOR PRESETTING ALL BOLTS PRIOR TO PLACING CONCRETE AND/OR GROUT.
4. IF THREADED RODS ARE USED AS PERMITTED ABOVE, THEY SHALL BE CLEAR OF SOIL AND DIRT.
5. WHERE REQUIRED FOR ERECTION, HOLES LARGER THAN OVERSIZED MAY BE PERMITTED WITH THE USE OF STEEL PLATE WASHERS AT THE DISCRETION OF THE STRUCTURAL ENGINEER.



G. ADHESIVE/MECHANICAL ANCHORS

1. ALL ADHESIVE/MECHANICAL ANCHORS SHALL BE INSTALLED, INCLUDING HOLE DRILLING AND PREPARATION, IN ACCORDANCE WITH AN APPROVED INDEPENDENT EVALUATION REPORT (ICC-ES, IAPMO, OR APPROVED EQUAL), AS INDICATED BELOW, AND IN ACCORDANCE WITH ALL MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII).
2. ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS AT TIME OF ANCHOR INSTALLATION. ADHESIVE ANCHORS SHALL NOT BE FULLY LOADED UNTIL CONCRETE HAS REACHED DESIGN STRENGTH.
3. UNLESS APPROVED BY THE ENGINEER OF RECORD, CONCRETE AND DRILLED ANCHOR HOLES SHALL BE DRY AND FREE OF WATER FOR 24 HOURS PRIOR TO ADHESIVE INSTALLATION. CONTACT THE ENGINEER OF RECORD FOR GUIDANCE IF THE CONTRACTOR CHOOSES TO INSTALL IN WET OR DAMP HOLES.
4. CONCRETE TEMPERATURE AT THE TIME OF INSTALLATION SHALL BE MONITORED BY THE CONTRACTOR. CONTRACTOR SHALL COMPLY WITH ALL MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII) RELATIVE TO SUBSTRATE TEMPERATURE.
5. INSTALLATION OF ADHESIVE ANCHORS HORIZONTALLY OR UPWARDLY INCLINED TO SUPPORT SUSTAINED TENSION LOADS SHALL BE PERFORMED BY PERSONNEL CERTIFIED BY AN APPLICABLE CERTIFICATION PROGRAM. CERTIFICATION SHALL INCLUDE WRITTEN AND PERFORMANCE TESTS IN ACCORDANCE WITH THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM, OR EQUIVALENT IN ACCORDANCE WITH ACI 318-11 D.9.2.2. PROOF OF CURRENT CERTIFICATION SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION. CONTINUOUS SPECIAL INSPECTION SHALL BE PROVIDED FOR THESE ANCHORS.

6. UNLESS NOTED OTHERWISE, ALL ADHESIVE ANCHORS INTO CONCRETE SHALL BE:
a. HILTI HIT-RE 500V3 (ESR-3814), OR HILTI HIT-HY 200 (ESR-3187).
b. SIMPSON SET-XP (ESR-2508), OR AT-XP (ER-0263).
c. DEWALT PURE 100+ (ESR-2322), OR AC100+ GOLD (ESR-2592-COLD WEATHER).
7. UNLESS NOTED OTHER WISE, ALL MECHANICAL ANCHORS INTO CONCRETE SHALL BE:
a. HILTI KWIK BOLT TZ (ESR-1917).
b. DEWALT POWER STUD+ SD2 (ESR-2502).
c. SIMPSON STRONG-BOLT 2 (ESR-3037).
8. UNLESS NOTED OTHERWISE, ALL SCREW ANCHORS INTO CONCRETE SHALL BE:
a. SIMPSON TITEN HD (ESR-2713).
b. DEWALT SCREWBOLT+ (ESR-2526).
c. HILTI KWIK HUS-EZ (ESR-3027).
9. THE TESTING LABORATORY WILL PERFORM VISUAL INSPECTION OF ANCHORS AND DOWELS AS SPECIFIED IN THE SPECIAL INSPECTION SCHEDULE AND THE APPROVED INDEPENDENT EVALUATION REPORT. TENSION TESTING CAN BE REQUIRED AT THE DIRECTION OF THE STRUCTURAL ENGINEER OF RECORD OR THE SPECIAL INSPECTOR.
10. IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON THAT HOLE AND SHIFT THE ANCHOR LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM SPACE OF (2) ANCHOR HOLE DIAMETERS OR 1 INCH, WHICH EVER IS LARGER, OF SOUND CONCRETE/MASONRY BETWEEN THE ANCHOR AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT. AT CONTRACTORS OPTION, LOCATE EXISTING REINFORCMENT PRIOR TO DRILLING/CORING. IF THE ANCHOR OR DOWEL CANNOT BE SHIFTED AS NOTED ABOVE, THE ENGINEER WILL DETERMINE A NEW LOCATION.
11. LOCATE REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH MECHANICAL ANCHORS.
12. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS SHALL BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. SUBSTITUTION REQUESTS SHALL INCLUDE AN ICC ESR OR IAPMO REPORTAND SUPPORTING CALCULATIONS INDICATING COMPLIANCE WITH DESIGN INTENT.

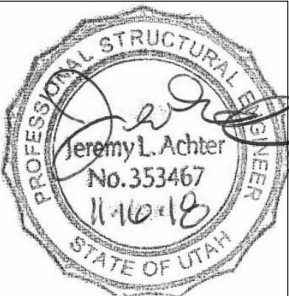
H. REINFORCING STEEL

1. REINFORCING BAR STRENGTH REQUIREMENTS:
a. ALL REINFORCING BARS SHALL CONFORM TO ASTM STANDARD A-615 GRADE 60 AND ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM STANDARD A-1064 AND SHALL BE SUPPLIED IN FLAT SHEETS. ADEQUATELY TIE AND SUPPORT ALL REINFORCING STEEL AS SPECIFIED BY ACI 117, TO MAINTAIN EXACT REQUIRED POSITION.
2. STEEL DISCONTINUOUS FIBER REINFORCEMENT SHALL BE DEFORMED AND CONFORM TO ASTM A820 AND SHALL HAVE A LENGTH TO DIAMETER RATIO NOT SMALLER THAN 50 AND NOT GREATER THAN 100.
3. HEADED DEFORMED BARS SHALL CONFORM TO ASTM A970. OBSTRUCTIONS OR INTERRUPTIONS OF THE BAR DEFORMATIONS, IF ANY, SHALL NOT EXTEND MORE THAN 2 BAR DIAMETERS FROM THE BEARING FACE OF THE HEAD.
4. ALL FIELD BENT DOWELS SHALL BE GRADE 40 WITH SPACING INDICATED REDUCED BY 1/3.
5. UNLESS NOTED OTHERWISE, REINFORCEMENT SHALL HAVE THE FOLLOWING CONCRETE COVERAGE :
a. CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3"
b. EXPOSED TO EARTH OR WEATHER :
1. #6 & LARGER 2"
2. #5 & SMALLER1-1/2"
c. NOT EXPOSED TO WEATHER OR EARTH :
1. SLABS, WALLS, JOISTS, #11 & SMALLER 3/4"
2. BEAMS, COLUMNS: MAIN REINFORCING OR TIES 1-1/2"
d. SLAB ON GRADE :
1. PLACE REINFORCING AT CENTER OF SLAB UNLESS INDICATED OTHERWISE.
6. EXCEPT WHERE NOTED ON PLANS OR DETAILS CONTINUOUS REINFORCEMENT SHALL BE SPLICED AT POINTS OF MINIMUM STRESS BY LAPPING PER THE REBAR LAP SCHEDULE.



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION



4	s/s Regina Friel	
3	11/29/18	
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME
**FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION**

**ASHLEY
NATIONAL FOREST**

FLAMING GORGE RANGER DISTRICT

DRAWING TITLE
**STRUCTURAL
NOTES**

DATE 11/16/2018	ARCHIVE NO.
DESIGNER JLA	DRAWING SHEET NO. S003
DRAWN RK	
CHECKED JLA	
PROJECT NO. 18037.A	SHEET 70 OF 119

7. REINFORCING STEEL MAY BE SPLICED WITH MECHANICAL COUPLERS THAT HAVE A TENSION CAPACITY OF AT LEAST 125% OF THE STRENGTH OF THE BAR. MECHANICAL COUPLERS SHALL BE A POSITIVE CONNECTING TYPE COUPLER, AND SHALL BE INSTALLED IN ACCORDANCE WITH AN APPROVED ICC RESEARCH REPORT. WHERE THESE ARE USED, SPLICES ON ADJACENT BARS SHALL BE STAGGERED AT LEAST 24 INCHES ALONG THE LENGTH OF THE BARS.
8. ALL VERTICAL REINFORCING IN STRUCTURAL ELEMENTS ABOVE SHALL BE SPLICED WITH MATCHING DOWELS EMBEDDED WITHIN THE FOOTINGS OR STRUCTURE BELOW. SPLICE LENGTHS SHALL COMPLY WITH REBAR LAP SCHEDULE. DOWELS INTO FOOTINGS SHALL TERMINATE WITH A STANDARD HOOK, AND SHALL EXTEND TO WITHIN 4" OF THE BOTTOM OF THE FOOTING, BUT NEED NOT EXTEND MORE THAN 20" INTO FOOTING.
9. DO NOT WELD REINFORCING EXCEPT AS NOTED ON PLANS, WHERE REINFORCING IS WELDED, USE ASTM A-706 REINFORCING.
10. REINFORCING BARS, TIES, AND TENDONS SHALL BE SUPPORTED BY NYLON CONES, PLASTIC-COATED TIE-WIRES, OR PLASTIC-COATED CHAIRS. REINFORCING IN FOOTINGS IS PERMITTED TO BE SUPPORTED ON CONCRETE DOBIES.
11. UNLESS NOTED OTHERWISE, HOOKS, STIRRUPS, TIES, AND OTHER BENDS IN REINFORCING STEEL SHALL MEET THE STANDARDS SET FORTH IN ACI 318/318R-14. UNLESS OTHERWISE PERMITTED BY THE ENGINEER, ALL REINFORCEMENT SHALL BE BENT COLD. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT, EXCEPT AS SHOWN ON THESE DRAWINGS OR OTHERWISE PERMITTED BY THE ENGINEER.
12. UNLESS SPECIFICALLY NOTED AND/OR DETAILED IN THE STRUCTURAL DRAWINGS CONDUIT SHALL NOT BE IN CONTACT WITH REINFORCING STEEL.

I. STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING:

a. ANSI/AISC 360-10 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS", WITH "COMMENTARY" AND "SUPPLEMENTS" AS REQUIRED BY BUILDING CODE.

b. AISC 303-10 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" EXCLUDING THE FOLLOWING SECTIONS: 4.4, 4.4.1, AND 4.4.2.

c. AISI "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS".

d. AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS".

e. AWS D1.1 AND 1.3, "STRUCTURAL WELDING CODE" (EXCEPT SPECIFIC ITEMS DO NOT APPLY IF THEY CONFLICT WITH AISC).

f. ANSI/AISC 341-10 "SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS".
2. STRUCTURAL STEEL SHALL COMPLY WITH THE FOLLOWING:

a. WIDE FLANGE SHAPES AND WT SHAPES - ASTM A992

b. OTHER SHAPES AND PLATES - ASTM A-36 (UNO)

c. TUBES (TS) AND HOLLOW STRUCTURAL SECTIONS (HSS) - ASTM A-500, GRADE B (SQUARE AND RECTANGULAR SHAPES FY = 46 KSI AND ROUND SHAPES FY = 42 KSI)

d. PIPE COLUMNS - ASTM A-53, GRADE B TYPE E OR S

e. STAINLESS STEEL SHAPES, PLATES, AND FASTENERS – ASTM 304

f. DEFORMED BAR ANCHORS (DBA) - ASTM A-496, WELDED IN ACCORDANCE WITH AWS D1.1

g. HEADED STUD ANCHORS (HSA) - ASTM A-108, GRADE 1015 STEEL AND WELDED IN ACCORDANCE WITH AWS D1.1 FOR TYPE "B". USE 3/4" DIAMETER STUDS, UNLESS NOTED OTHERWISE.

h. THREADED ROD - ASTM A-449.

i. NON-SHRINK GROUT - ASTM C110. NON-SHRINK GROUT SHALL BE PRE-PACKAGED, NON-METALLIC, WITH A 28-DAY COMPRESSIVE STRENGTH OF 6,000 PSI.
3. CONNECTIONS SHALL COMPLY WITH THE STRUCTURAL DRAWINGS UNLESS WRITTEN APPROVAL TO CHANGE IS GIVEN BY THE STRUCTURAL ENGINEER.
4. ALL SHOP FABRICATIONS SHALL BE PERFORMED BY AN APPROVED FABRICATOR IN ACCORDANCE WITH SECTIONS 1702 AND 1704 OF THE IBC OR WITH SHOP INSPECTION BY AN INDEPENDENT AGENCY IN ACCORDANCE WITH SECTION 1704.2.5 OF THE IBC.

5. WELDING

a. ALL WELDING AND CUTTING SHALL BE PERFORMED BY AWS QUALIFIED WELDERS IN ACCORDANCE WITH ANSI/AWS D1.1 (LATEST EDITION).

b. USE E-70XX ELECTRODES UNLESS NOTED OTHERWISE.

c. ALL INTERSECTING STEEL SHAPES WHICH ARE NOT CONNECTED WITH BOLTS SHALL BE WELDED TOGETHER WITH A FILLET WELD ALL AROUND UNLESS NOTED OTHERWISE. WHERE WELD SIZES ARE NOT SHOWN USE THE FOLLOWING:

1. WHERE ALL CONNECTED PARTS ARE THICKER THAN 1/4", WELD IS 1/16" LESS THAN THE THICKNESS OF THE THINNEST PART.

2. WHERE ANY OF THE CONNECTED PARTS IS LESS THAN 1/4" THICK, WELD IS SAME AS THICKNESS OF THE THINNEST PART.

d. WELDING OF HSA'S AND DBA'S SHALL CONFORM TO THE MANUFACTURER'S SPECIFICATIONS.

e. WHEREVER POSSIBLE, WELDS SHALL BE SHOP WELDS. SPECIAL CONSIDERATIONS, SUCH AS ITEMS WHICH MAY NEED ADJUSTMENT AT THE SITE, REQUIRE THAT SOME WELDS BE FIELD WELDS. WHERE QUESTIONS OR DISCREPANCIES OCCUR THE CONTRACTOR SHALL COORDINATE THE WORK BETWEEN THE SHOP FABRICATOR AND THE STEEL ERECTOR.
6. BOLTING

a. UNLESS NOTED OTHERWISE, ALL STRUCTURAL STEEL TO STEEL CONNECTIONS SHALL USE HIGH STRENGTH BOLTS CONFORMING TO ASTM A-325.

b. UNLESS NOTED OTHERWISE, ALL BOLTING IS CLASSIFIED AS NON-SLIP CRITICAL BEARING TYPE CONNECTIONS WITH THREADS INCLUDED IN SHEAR PLANE. TIGHTEN BOLTS TO A SNUG TIGHT CONDITION, WITH ALL PLIES OF THE JOINT IN FIRM CONTACT.

c. WHERE OVERSIZED OR SLOTTED HOLES OCCUR IN THE OUTER PLY, AN ASTM F436 WASHER OR 5/16" THICK COMMON PLATE WASHER SHALL BE USED AS REQUIRED TO COMPLETELY COVER THE HOLE.

d. BOLTS SHALL BE CENTERED IN SLOTTED HOLES, UNLESS NOTED OTHERWISE.

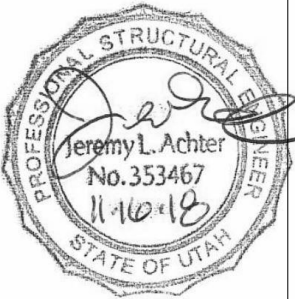
e. WHERE A STEEL BEAM TO BEAM CONNECTION IS NOT SHOWN, PROVIDE AN AISC STANDARD FRAMED CONNECTION SIZED FOR 1/2 OF THE TOTAL LOAD CAPACITY OF THE BEAM FOR THE SPAN AND STEEL SPECIFIED.
7. UNLESS NOTED OTHERWISE, WHERE STEEL BEAMS SUPPORT WOOD FRAMING OR WOOD SHEATHING, PROVIDE A CONTINUOUS SINGLE 3x NAILER PLATE ON THE TOP OF THE BEAM THAT EXTENDS AT LEAST THE FULL WIDTH OF THE BEAM FLANGE. ATTACH NAILER PLATES TO WIDE-FLANGE BEAMS WITH 1/2" DIAMETER THRU BOLTS AT 24"O.C. - STAGGERED. COUNTER-SINK HEAD OF BOLTS INTO TOP OF NAILER PLATE TO PROVIDE A FLUSH BEARING SURFACE.
8. ALL COLUMNS ADJACENT TO OR EMBEDDED IN WOOD STUD WALLS SHALL HAVE (1) 1/2" DIAMETER X 3-1/2" THREADED STEEL ROD SHOP-WELDED TO THE FACE OF THE COLUMN AT 24" O.C. AND EXTENDING EACH WAY INTO THE ADJACENT STUD WALLS. ATTACH ADJACENT WOOD WALL STUDS TO STEEL COLUMN WITH STANDARD NUT AND WASHER AS REQUIRED.
9. PROVIDE FULL DEPTH WEB STIFFENER PLATES AT EACH SIDE OF STEEL BEAMS AT ALL BEARING (EXCEPT SECONDARY FRAMING) POINTS. STIFFENER PLATES SHALL BE THICKNESS SHOWN UNLESS NOTED OTHERWISE AND SHALL BE WELDED BOTH SIDES WITH FILLET WELDS ALL AROUND.

FLANGE WIDTH	STIFFENER THICKNESS	WELD THICKNESS
< 8 1/4"	1/4"	3/16"
8 1/4" < BF < 12 1/2"	3/8"	1/4"
12 1/2" < BF < 18"	1/2"	5/16"
10. FABRICATORS AND SUPPLIERS SHALL COORDINATE PAINT/FINISHES WITH REQUIREMENTS FOR DIRECT APPLIED INSULATION, FIREPROOFING, ETC. AS NOTED IN THE PROJECT SPECIFICATIONS.
11. WHEN DETERMINING THE FIRE RESISTANCE OF ASSEMBLIES, USE THE FOLLOWING: STEEL ROOF MEMBERS ARE CONSIDERED UN-RESTRAINED AND STEEL FLOOR FRAMING MEMBERS ARE CONSIDERED RESTRAINED.
12. UNLESS NOTED OTHERWISE, ALL HORIZONTAL FRAMING MEMBERS SHALL BE ERECTED WITH THE NATURAL CROWN UP.
13. UNLESS OTHERWISE SHOWN OR DETAILED IN THE PLANS, ALL STEEL COLUMNS, BEAMS, BRACES, STRUTS, ETC. SHALL BE CONTINUOUS BETWEEN CONNECTIONS OR SUPPORTS. SPLICES IN MEMBERS SHALL NOT BE PERMITTED WITHOUT WRITTEN APPROVAL BY THE ENGINEER OF RECORD.



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION



4	s/s Regina Fred	
3	11/29/18	
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION

ASHLEY
NATIONAL FOREST

FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

STRUCTURAL
NOTES

DATE 11/16/2018	ARCHIVE NO.
DESIGNER JLA	DRAWING SHEET NO.
DRAWN RK	S004
CHECKED JLA	
PROJECT NO. 18037.A	SHEET 71 OF 119

J. TIMBER

1. WOOD GRADES (UNLESS NOTED OTHERWISE)

a. ALL FRAMING LUMBER SHALL BE DOUGLAS FIR/LARCH CLEARLY MARKED WITH A STAMP BY WWPA APPROVED AGENCY AND SHALL BE GRADED AS FOLLOWS:

1. HORIZONTAL MEMBERS: JOISTS & RAFTERS: NO. 2, BEAMS & STRINGERS: NO. 2.

2. VERTICAL MEMBERS: POST & TRIMMERS: NO. 1, STUDS: NO. 2.

b. ALL FRAMING IN CONTACT WITH FOOTINGS, FOUNDATIONS OR SLABS ON GRADE SHALL BE PRESSURE TREATED OR TIMBERSTRAND LSL TREATED LUMBER WITH EQUIVALENT STRESS GRADES TO TYPICAL FRAMING MEMBERS.

c. UNLESS NOTED OTHERWISE, ALL ENGINEERED LUMBER SHALL BE FURNISHED BY TRUS-JOIST CORPORATION OR APPROVED EQUAL AND SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES :

	MODULUS OF ELASTICITY	FLEXURAL STRESS RATING
LVL :	2,000,000 PSI	2,600 PSI
PSL :	2,000,000 PSI	2,900 PSI
LSL :	1,500,000 PSI	2,250 PSI

d. ALL WOOD "I" JOISTS AND BRIDGING SHALL BE FURNISHED BY TRUS-JOIST CORPORATION OR APPROVED EQUAL.
2. SHEATHING SHALL BE APA RATED SHEATHING, EXPOSURE I, EXTERIOR GLUE AND PANEL INDEX RATING AS NOTED BELOW UNLESS NOTED OTHERWISE :

LOCATION	THICKNESS	PANEL INDEX
WALLS :	15/32"	24/0
ROOFS :	19/32"	32/16
3. ALL EXTERIOR WOOD WALLS SHALL BE FRAMED W; 2x6 STUDS @ 16"o.c. U.N.O.
4. INDIVIDUAL PIECES OF SHEATHING AT ROOF AND SHEAR WALLS SHALL NOT BE SMALLER THAN 24" IN EITHER DIRECTION AND SHALL SPAN A MINIMUM OF TWO FRAMING SPACES, UNO.
5. CONNECTIONS, FASTENERS, AND ADHESIVE

a. ALL BOLTS THRU WOOD SHALL BE ASTM A307 AND SHALL HAVE HARDENED WASHERS UNDER ASTM A563 HEAVY HEX NUT AND BOLT HEADS.

b. UNLESS NOTED OTHERWISE, 10d COMMON NAILS SHALL BE USED TO FASTEN ALL PLYWOOD SHEATHING TO SUPPORTING TRUSSES, JOISTS, LEDGERS OR BLOCKING AS FOLLOWS:

1. BOUNDARY NAILING "BN": 6"O.C. AT ALL ROOF AND FLOOR SHEATHING INTO BEARING WALLS, SHEAR WALLS, AND BLOCKING.

2. PANEL EDGE NAILING "EN": 6"O.C. AT ALL OTHER PLYWOOD PANEL EDGES.

3. PANEL FIELD NAILING "FN": 12"O.C. AT INTERIOR SUPPORTS IN FIELD OF PANEL.

4. NAILS SHALL BE GALVANIZED OR STAINLESS STEEL AT EXPOSED LOCATIONS OR IN TREATED WOOD (SEE NOTE BELOW FOR FASTENERS CONNECTED TO OR IN CONTACT WITH TREATED WOOD). THE HEAD OF ALL NAILS SHALL BE DRIVEN FLUSH WITH THE SURFACE OF THE SHEATHING.

c. ALL NAILS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES :

	MIN. PENETRATION	
COMMON NAIL SIZE	SHANK DIAMETER	INTO SUPPORT MEMBER
6d	0.113"	1.25"
8d	0.131"	1.375"
10d	0.148"	1.50"
12d	0.148"	1.50"
16d	0.162"	1.62"

d. A CONTINUOUS BEAD OF PERMANENT BOND TIMBER/WOOD ADHESIVE COMPOUND SHALL BE USED TO FASTEN ALL PLYWOOD FLOOR SHEATHING TO FLOOR JOISTS IN ACCORDANCE WITH MANUFACTURERS' SPECIFICATIONS.

e. ALL FRAMING ANCHORS, POST CAPS, HOLD DOWNS, COLUMN BASES ETC. TO BE PROVIDED BY SIMPSON OR APPROVED EQUAL AND SHALL BE ATTACHED IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED DATA, UNLESS NOTED OTHERWISE.

f. UNLESS NOTED OTHERWISE, ALL WALL BOTTOM PLATES TO BE ANCHORED TO FOUNDATIONS OR FOOTINGS WITH 3/4" DIAMETER ANCHOR BOLTS AT 32"O.C. WITH 8" MINIMUM EMBEDMENT. THERE SHALL BE A MINIMUM OF (2) ANCHOR BOLTS PER PLATE WITH ONE BOLT LOCATED NOT MORE THAN 12" AND NOT LESS THAN 4" FROM EACH END OF EACH PIECE.

- g. FASTENERS CONNECTED TO OR IN CONTACT WITH PRESERVATIVE-TREATED AND/OR FIRE-RETARDANT-TREATED WOOD (EXCEPT FOR TIMBERSTRAND LSL TREATED LUMBER AND BORATE BASED TREATMENTS) SHALL BE OF G-185 HOT-DIP GALVANIZED STEEL OR 304 OR 316 STAINLESS STEEL. STAINLESS STEEL AND GALVANIZED STEEL SHALL NEVER BE USED IN CONTACT WITH EACH OTHER.
6. PROVIDE SOLID 2" (NOMINAL) FULL DEPTH BLOCKING AT ENDS AND SUPPORT LOCATIONS FOR ALL JOISTS AND RAFTERS. BLOCKING SHALL BE ATTACHED TO SUPPORT FRAMING WITH A MINIMUM OF (1) SIMPSON A35 FRAMING ANCHOR BETWEEN JOISTS UNLESS NOTED OTHERWISE.
7. VERIFY THE STUD SPACING WITH THE ANCHOR BOLT LAY-OUT. WHERE STUDS INTERFERE WITH ANCHOR BOLTS, PROVIDE AN ADDITIONAL FULL-HEIGHT STUD TO ENSURE THAT THE FULL CROSS-SECTIONAL AREA OF THE STUD IS IN CONTACT WITH THE SILL PLATE.
8. EXCEPT WHERE NOTED OTHERWISE, THE NUMBER AND SIZE OF NAILS CONNECTING WOOD MEMBERS SHALL NOT BE LESS THAN THAT SET FORTH IN IBC TABLE 2304.10.1. CONNECTIONS FOR MULTIPLE PIECES OF ENGINEERED LUMBER PIECES SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.

a. UNLESS NOTED OTHERWISE, ALL HORIZONTAL FRAMING MEMBERS SHALL BE INSTALLED WITH THE NATURAL CROWN UP.

K. DEFERRED SUBMITTALS

1. DEFERRED SUBMITTALS ARE COMPLETE PACKAGES TO BE SUBMITTED FOR REVIEW THAT INCLUDE DRAWINGS AND CALCULATIONS FOR ALL ELEMENTS AND CONNECTIONS OF ITEMS LISTED BELOW. DEFERRED SUBMITTALS SHALL BEAR THE STAMP AND SIGNATURE OF THE DESIGN PROFESSIONAL RESPONSIBLE FOR THE DESIGN.
2. DEFERRED SUBMITTAL COMPONENTS SHALL NOT BE INSTALLED UNTIL APPROVED BY THE CONTRACTING OFFICER.
3. DEFERRED SUBMITTALS SHALL INCLUDE, BUT ARE NOT LIMITED TO:

a. SEISMIC BRACING OF ALL ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL ITEMS WHERE REQUIRED BY ASCE 7-10 AND THE PROJECT CONTRACT DOCUMENTS.

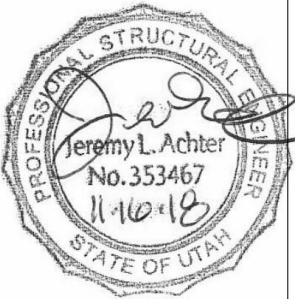
L. EXISTING BUILDING NOTES

1. ARW ENGINEERS EXPRESSLY DISCLAIMS RESPONSIBILITY FOR ANY PORTION OF THE EXISTING BUILDING NOT SPECIFICALLY ADDRESSED IN THESE DRAWINGS.
2. DRAWINGS AND DETAILS HAVE BEEN PREPARED TO REFLECT THE EXISTING CONDITIONS AND CONFIGURATIONS OF STRUCTURAL ELEMENTS. HOWEVER, THE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS AND ALERTING THE ENGINEER OF ANY DISCREPANCIES FOUND PRIOR TO FABRICATING OR INSTALLING STRUCTURAL ELEMENTS.
3. THE CONTRACTOR IS RESPONSIBLE FOR MAKING SURE THAT THE BUILDING AND ELEMENTS WITHIN THE BUILDING REMAIN STABLE UNTIL CONSTRUCTION IS COMPLETE. AT NO ADDITIONAL COST TO THE OWNER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SHORING OR OTHER TEMPORARY SUPPORT OF STRUCTURAL MEMBERS UNTIL THE FINAL CONFIGURATION HAS BEEN COMPLETED.



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION



4	s/s Regina Freed	
3	11/29/18	
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION

ASHLEY
NATIONAL FOREST










FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

STRUCTURAL
NOTES

DATE 11/16/2018	ARCHIVE NO.
DESIGNER JLA	DRAWING SHEET NO. S005
DRAWN RK	
CHECKED JLA	
PROJECT NO. 18037.A	SHEET 72 OF 119

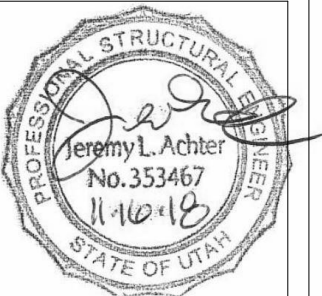
LEGEND OF SYMBOLS AND ABBREVIATIONS

AB	=	ANCHOR BOLT		FOOTING MARK
ABV	=	ABOVE		
ARCH	=	ARCHITECT		
BLW	=	BELOW		
BN	=	BOUNDRY NAILING		SECTION MARK
BRB	=	BUCKLING RESTRAINED BRACE		SHEET NUMBER
BRBF	=	BUCKLING RESTRAINED BRACE FRAME		TOP OF FOUNDATION WALL OR COLUMN PIER ELEV.
CJP	=	COMPLETE JOINT PENETRATION		
CL	=	CENTERLINE		
CMU	=	CONCRETE MASONRY UNIT		
COL	=	COLUMN	S — S	FOOTING STEP
CONC	=	CONCRETE		DEPRESS FDN./WALL AND POUR FLOOR SLAB OVER AT MASONRY FOUNDATION WALL
CP	=	CONCRETE PIER		
DC	=	DEMAND CRITICAL		DEPRESS FDN./WALL AND POUR FLOOR SLAB OVER AT CONCRETE FOUNDATION WALL
DIA / Ø	=	DIAMETER		
DBA	=	DEFORMED BAR ANCHOR		
DBE	=	DECK BEARING ELEVATION		
ELEV	=	ELEVATION		
EN	=	EDGE NAILING		
EOD	=	EDGE OF DECK		
FDN	=	FOUNDATION		MASONRY BEAM
FTG	=	FOOTING		CONCRETE BEAM
FFE	=	FINISHED FLOOR ELEVATION		
GB	=	CONCRETE GRADE BEAM		
HSA	=	HEADED STUD ANCHOR		ELEVATION
JBE	=	JOIST BEARING ELEVATION		
KB	=	KICKER BRACE		
MAX	=	MAXIMUM	— L —	FRAMING ANGLE SEE TYPICAL DETAIL
MB	=	MASONRY BEAM		
MC	=	MASONRY COLUMN	— C —	FRAMING CHANNEL SEE TYPICAL DETAIL
MECH	=	MECHANICAL		
MEZZ	=	MEZZANINE		
MIN	=	MINIMUM		
MJ	=	MASONRY JAMB		ITEMS, DETAILS, & SYSTEMS WHICH ARE PART OF THE LATERAL FORCE RESISTING SYSTEM.
MW	=	MASONRY WALL		
NS, FS	=	NEAR SIDE, FAR SIDE		
OAE	=	OR APPROVED EQUAL		
OPP	=	OPPOSITE		
PAF	=	POWDER ACTUATED FASTENER		
PL	=	PLATE		
REINF	=	REINFORCING		
REQ'D	=	REQUIRED		
SIM	=	SIMILAR		
SSH	=	STEEL STUD HEADER		
SSJ	=	STEEL STUD JAMB		
SSS	=	STEEL STUD SILL		
SSW	=	STEEL STUD WALL		
TOB	=	TOP OF BEAM ELEVATION		
TOC	=	TOP OF CONCRETE SLAB		
TOF	=	TOP OF FOOTING		
TOG	=	TOP OF GIRDER ELEVATION		
TOM	=	TOP OF MASONRY		
TOS	=	TOP OF STEEL ELEVATION		
TYP	=	TYPICAL		
UNO	=	UNLESS NOTED OTHERWISE	KB	KICKER BRACE



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION



4	s/s Regina Fred	
3	11/29/18	
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION

ASHLEY
NATIONAL FOREST

FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

SCHEDULES

DATE 11/16/2018	ARCHIVE NO.
DESIGNER JLA	DRAWING SHEET NO. S006
DRAWN RK	
CHECKED JLA	
PROJECT NO. 18037.A	SHEET 73 OF 119

11/16/2018 3:07:07 PM

C:\Users\jasonr\Documents\18037 - Flaming Gorge Ranger Office Addition-2018_jasonr@jarwengineers.com.rvt

SPECIAL INSPECTION SCHEDULE ^{1, 2}				
ESTABLISHED PER 2015 IBC SECTION 110 AND CHAPTER 17				
ITEM	CONTINUOUS ³	PERIODIC ³	REFERENCE	COMMENTS
PRE-FAB CONSTRUCTION (IBC 1704.2)			REFERENCE NOTES P1 & P2	P1. SPECIAL INSPECTION IS NOT REQUIRED WHERE THE WORK IS DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION, PROVIDED THE FABRICATOR COMPLIES WITH IBC. P2. INSPECTION FOR PREFABRICATED CONSTRUCTION SHALL BE THE SAME AS IF THE MATERIAL USED IN THE CONSTRUCTION TOOK PLACE ON SITE. SPECIAL INSPECTION WILL NOT BE REQUIRED DURING PREFABRICATION IF THE APPROVED AGENCY CERTIFIES THE CONSTRUCTION AND FURNISHES EVIDENCE OF COMPLIANCE. (SEE NOTE 2).
CONCRETE CONSTRUCTION (IBC 1705.3)			SEE IBC TABLE 1705.3 - REF. NOTE C1	C1. SPECIAL INSPECTION IS NOT REQUIRED FOR CONC. ISOLATED SPREAD FOOTINGS, CONTINUOUS FOOTINGS, NON-STRUCTURAL SLABS, FOUNDATION WALLS, PATIOS, DRIVEWAYS, AND SIDEWALKS PROVIDED THE REQUIREMENTS OF IBC 1705.3 ARE MET. C2. PERIODIC SPECIAL INSPECTION IS ALLOWED FOR VERIFICATION OF THE WELDABILITY OF REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS, AND SHEAR REINFORCEMENT. PERIODIC SPECIAL INSPECTION IS ALLOWED FOR WELDING OF OTHER ASTM A 706 REINFORCING STEEL NOT INCLUDED IN THE CONTINUOUS SPECIAL INSPECTION REQUIREMENTS NOTED ABOVE. C3. PERFORM AIR, SLUMP AND TEMP. TESTS WHEN CONCRETE SAMPLES ARE CAST. C4. PERIODIC SPECIAL INSPECTION IS REQUIRED FOR VERIFICATION OF IN-SITU CONCRETE STRENGTH FOR POST-TENSIONED CONCRETE PRIOR TO TENSIONING TENDONS OR REMOVING SHORING OR FORMS. C5. EPOXY AND EXPANSION ANCHORS INTO MASONRY OR CONCRETE MAY BE USED ONLY WHEN APPROVED BY ARCHITECT. AND/OR ENGINEER USING AN APPROVED PRODUCT WITH CURRENT PUBLISHED ICC RESEARCH REPORT NUMBERS. COORDINATE CONTINUOUS/PERIODIC SPECIAL INSPECTION REQUIREMENTS WITH ICC REPORT.
REINFORCING STEEL PLACEMENT		●		
WELDING OF REINFORCING STEEL	●	●	REFERENCE NOTE C2	
EMBEDDED BOLTS & PLATES	●			
VERIFYING REQUIRED DESIGN MIX		●		
CONCRETE PLACEMENT / SAMPLING	●		REFERENCE NOTE C3	
CURING TEMPERATURE / TECHNIQUES		●		
EPOXY / EXPANSION ANCHOR PLACEMENT	●	●	REFERENCE NOTE C5	
WOOD (IBC 1705.5)				W1. WOOD STRUCTURAL PANEL SHEATHING SHALL BE INSPECTED TO ASCERTAIN THAT GRADE AND THICKNESS ARE IN COMPLIANCE WITH APPROVED BUILDING PLANS. NOMINAL SIZE OF FRAMING MEMBERS AT ADJOINING PANEL EDGES, THE NAIL OR STAPLE DIAMETER AND LENGTH, THE NUMBER OF FASTENER LINES, AND SPACING BETWEEN FASTENERS IN EACH LINE AND AT EDGE MARGINS SHALL ALSO BE INSPECTED AND VERIFIED FOR COMPLIANCE WITH APPROVED BUILDING PLANS. W2. SPECIAL INSPECTION IS NOT REQUIRED FOR WOOD SHEAR WALLS, WOOD DIAPHRAGMS, INCLUDING NAILING, & BOLTING, AND OTHER FASTENING TO OTHER COMPONENTS WHERE THE SPACING OF THE SHEATHING FASTENERS IS GREATER THAN 4"o.c.
SITE-BUILT ASSEMBLIES		●		
DIAHRAGM NAILING		●		
DRAG STRUTS		●		
GLUING OPERATIONS	●			
GENERAL SPECIAL INSPECTION NOTES :				
1. THE ITEMS MARKED WITH A "●" IN THE SPECIAL INSPECTION SCHEDULE SHALL BE INSPECTED IN ACCORDANCE WITH IBC CHAPTER 17 BY A CERTIFIED SPECIAL INSPECTOR FROM AN ESTABLISHED TESTING AGENCY. FOR MATERIAL SAMPLING AND TESTING REQUIREMENTS, REFER TO THE MATERIAL SAMPLING AND TESTING SECTION, THE PROJECT SPECIFICATIONS, AND THE SPECIFIC GENERAL NOTES SECTIONS. THE TESTING AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORTS DIRECTLY TO THE ARCHITECT, ENGINEER, CONTRACTOR, AND BUILDING OFFICIAL. ANY ITEMS WHICH FAIL TO COMPLY WITH THE APPROVED CONSTRUCTION DOCUMENTS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF DISCREPANCIES ARE NOT CORRECTED, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL, ARCHITECT, AND ENGINEER PRIOR TO COMPLETION OF THAT PHASE OF WORK. SPECIAL INSPECTION TESTING REQUIREMENTS APPLY EQUALLY TO ALL BIDDER DESIGNED COMPONENTS.				
2. ANY CONSTRUCTION OR MATERIAL THAT HAS FAILED INSPECTION SHALL BE SUBJECT TO REMOVAL AND REPLACEMENT.				
3. CONTINUOUS SPECIAL INSPECTION MEANS THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED. PERIODIC SPECIAL INSPECTION MEANS THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK. (IBC SECTION 1702)				



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION



4	s/s Regina Fred	
3	11/29/18	
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION

ASHLEY
NATIONAL FOREST

FLAMING GORGE RANGER DISTRICT

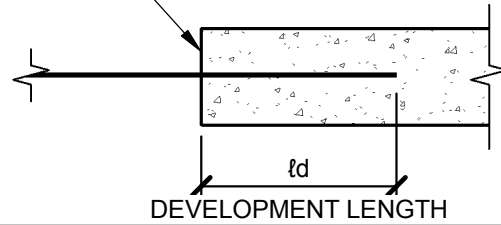
DRAWING TITLE

SCHEDULES

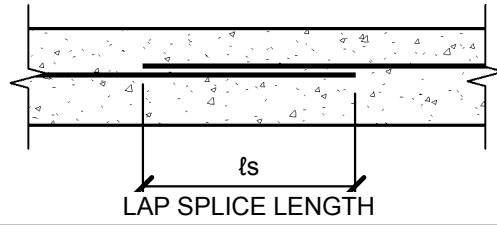
DATE 11/16/2018	ARCHIVE NO.
DESIGNER JLA	DRAWING SHEET NO.
DRAWN RK	S007
CHECKED JLA	
PROJECT NO. 18037.A	SHEET 74 OF 119

2015 IBC CONC. REBAR LAP SPLICE SCHEDULE

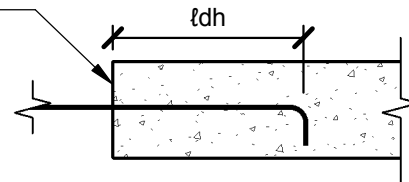
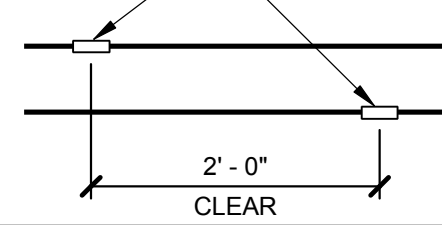
FOR CONCRETE APPLICATIONS (ACI 318 - 14)

FACE OF JOINT OR
CRITICAL SECTION

DEVELOPMENT LENGTH

FACE OF JOINT OR
CRITICAL SECTION

LAP SPLICE LENGTH

HOOK DEVELOPEMENT
LENGTHCOUPLER OR
WELDED SPLICE2' - 0"
CLEAR

CONCRETE REINFORCING & SPLICE LENGTHS (IN)

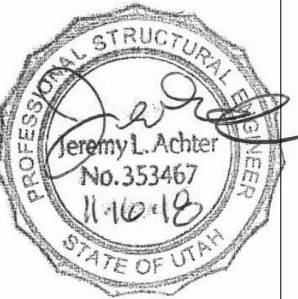
BAR LOCATION	CONCRETE REINFORCING & SPLICE LENGTHS (IN)																											
	CONCRETE		BAR SIZE																									
	TYPE	STRENGTH	#3			#4			#5			#6			#7			#8			#9		#10		#11		COMMENTS	
			ld	ls	ldh	ld	ls	ldh	ld	ls	ldh	ld	ls	ldh	ld	ls	ldh	ld	ls	ldh	ld	ldh	ld	ldh	ld	ldh		
VERT. WALL BARS, FILL ON METAL DECK	NWC	3000 PSI	17	22	8	22	29	8	28	36	10	33	43	12	48	62	13	55	72	15	62	17	69	19	76	30		
HORIZ. WALL BARS, FOOTING TOP BARS	NWC	3000 PSI	17	22	8	22	29	8	28	36	10	33	43	12	48	62	13	55	72	15	62	17	69	19	76	30		
BEAM BOTTOM BARS, COLUMN BARS	NWC	3000 PSI	17	22	8	22	29	11	28	36	14	33	43	16	48	62	19	55	72	22	62	25	69	27	76	30		
FOOTING BOTTOM BARS	NWC	3000 PSI	12	16	8	14	18	8	17	22	10	20	26	12	29	38	13	33	43	15	37	17	42	19	46	30		
BEAM TOP BARS	NWC	3000 PSI	22	29	8	29	38	11	36	47	14	43	56	16	63	82	19	72	94	22	81	25	90	27	98	30		
SLAB ON GRADE	NWC	3000 PSI	12	16	8	14	18	8	17	22	10	20	26	12	32	42	13	42	55	15	53	17	69	19	76	30		

CONCRETE REINFORCING & SPLICE LENGTHS (IN)

BAR LOCATION	CONCRETE REINFORCING & SPLICE LENGTHS (IN)																											
	CONCRETE		BAR SIZE																									
	TYPE	STRENGTH	#3			#4			#5			#6			#7			#8			#9		#10		#11		COMMENTS	
			ld	ls	ldh	ld	ls	ldh	ld	ls	ldh	ld	ls	ldh	ld	ls	ldh	ld	ls	ldh	ld	ldh	ld	ldh	ld	ldh		
VERT. WALL BARS, FILL ON METAL DECK	NWC	4500 PSI	14	18	7	18	23	6	23	30	8	27	35	9	40	52	11	45	59	13	51	14	56	16	62	25		
HORIZ. WALL BARS, FOOTING TOP BARS	NWC	4500 PSI	14	18	7	18	23	6	23	30	8	27	35	9	40	52	11	45	59	13	51	14	56	16	62	25		
BEAM BOTTOM BARS, COLUMN BARS	NWC	4500 PSI	14	18	7	18	23	9	23	30	11	27	35	13	40	52	16	45	59	18	51	20	56	22	62	25		
FOOTING BOTTOM BARS	NWC	4500 PSI	12	16	7	12	16	6	14	18	8	17	22	9	24	31	11	27	35	13	31	14	34	16	37	25		
BEAM TOP BARS	NWC	4500 PSI	18	23	7	24	31	9	30	39	11	35	46	13	51	66	16	59	77	18	66	20	73	22	80	25		
SLAB ON GRADE	NWC	4500 PSI	12	16	7	12	16	6	14	18	8	17	22	9	27	35	11	34	44	13	44	14	56	16	62	25		

NOTES :

- MECHANICAL COUPLERS MAY BE USED IN LIEU OF LAP SPLICES SHOWN. SEE STRUCTURAL NOTES FOR MINIMUM COUPLER CAPACITY. WHERE MECHANICAL COUPLERS ARE USED, STAGGER ADJACENT SPLICES A MINIMUM OF 24" AS INDICATED ABOVE.
- DEVELOPMENT LENGTHS SHALL BE INCREASED BY 50% FOR STRAIGHT BAR DEVELOPMENT AND 20% FOR HOOKED BARS WHERE EPOXY COATING IS USED.
- WHEN SPLICING BARS OF DIFFERENT SIZES, USE LAP SPLICE LENGTH OF LARGER BARS UNO.
- SPLICE BARS LARGER THAN #11 USING MECHANICAL COUPLERS.

United States Department of Agriculture
Forest ServiceREGION 4
INTERMOUNTAIN REGION

4	s/s Regina Freed	
3	11/29/18	
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

**FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION**

**ASHLEY
NATIONAL FOREST**

FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

SCHEDULES



DATE 11/16/2018	ARCHIVE NO.
DESIGNER JLA	DRAWING SHEET NO. S008
DRAWN RK	
CHECKED JLA	
PROJECT NO. 18037.A	SHEET 75 OF 119

11/16/2018 3:07:08 PM

C:\Users\JasonR\Documents\S-18037 - Flaming Gorge Ranger Office Addition-2018 JasonR@jarwengineers.com.rvt

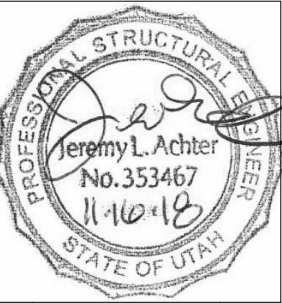
FOOTING SCHEDULE									
MARK	WIDTH	LENGTH	THICK	LENGTHWISE REINF.		CROSSWISE REINF.			REMARKS
				NO.	SIZE	NO.	SIZE	SPA.	
FC2	2'-0"	CONT.	12"	(2)	#5	--	--	--	
F3	3'-0"	3'-0"	12"	(3)	#5	(3)	#5	--	
F4	4'-0"	4'-0"	12"	(4)	#5	(4)	#5	--	

TYP. FOOTING SECTION



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION



4	s/s Regina Fred	
3	11/29/18	
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION

ASHLEY
NATIONAL FOREST

FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

SCHEDULES

DATE 11/16/2018	ARCHIVE NO.
DESIGNER JLA	DRAWING SHEET NO. S009
DRAWN RK	
CHECKED JLA	
PROJECT NO. 18037.A	SHEET 76 OF 119

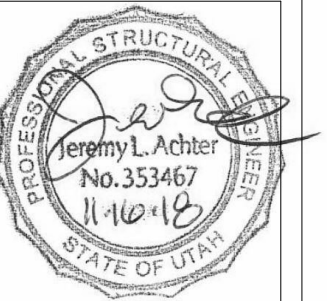
ESTABLISHED PER 2015 IBC SECTION 1705.2.1

INSPECTION TASKS PRIOR TO WELDING (TABLE N5.4-1)	FABRICATOR QUALITY CONTROL		SPECIAL INSPECTOR QUALITY ASSURANCE		NOTES
	CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC	
WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE	●		●		<div>1. PERIODIC - OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.</div> <div>2. CONTINUOUS - PERFORM THESE TASKS FOR EACH WELDED JOINT OR MEMBER.</div> <div>3. QUALITY CONTROL (QC) SHALL BE PROVIDED BY THE FABRICATOR AND ERECTOR.</div> <div>4. QUALITY ASSURANCE (QA) SHALL BE PROVIDED BY OTHERS WHEN REQUIRED BY THE AUTHORITY HAVING JURISDICTION (AHJ), APPLICABLE BUILDING CODE (ABC), PURCHASER, OWNER, OR ENGINEER OF RECORD (EOR). NONDESTRUCTIVE TESTING (NDT) SHALL BE PERFORMED BY THE AGENCY OR FIRM RESPONSIBLE FOR QUALITY ASSURANCE, EXCEPT AS PERMITTED IN ACCORDANCE WITH SECTION N7.</div> <div>5. QC AND QA INSPECTORS SHALL BE QUALIFIED IN ACCORDANCE WITH AISC 360-10 CHAPTER N4.</div> <div>6. NONDESTRUCTIVE TESTING PERSONNEL SHALL BE QUALIFIED IN ACCORDANCE WITH AISC 360-10 CHAPTER N4.3.</div> <div>7. NONDESTRUCTIVE TESTING OF WELDED JOINTS SHALL COMPLY WITH AISC 360-10 CHAPTER N5a AND b.</div> <div>8. OBSERVATION OF WELDING OPERATIONS AND VISUAL INSPECTION OF IN-PROCESS AND COMPLETED WELDS SHALL BE THE PRIMARY METHOD TO CONFIRM THAT THE MATERIALS, PROCEDURES AND WORKMANSHIP ARE IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS. FOR STRUCTURAL STEEL, ALL PROVISIONS OF AWS D1.1 / D1.1M STRUCTURAL WELDING CODE - STEEL FOR STATICALLY LOADED STRUCTURES SHALL APPLY.</div>
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	●		●		
MATERIAL IDENTIFICATION (TYPE / GRADE)		●		●	
WELDER IDENTIFICATION SYSTEM ¹		●		●	
FIT-UP OF FILLET WELDS		●		●	
* DIMENSIONS (ALIGNMENT, GAPS AT ROOT)					
* CLEANLINESS (CONDITION OF STEEL SURFACES)					
* TACKING (TACK WELD QUALITY AND LOCATION)					
CHECK WELDING EQUIPMENT		●			
¹ THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE.					



REGION 4

INTERMOUNTAIN REGION



4	s/s Regina Fred	
3	11/29/18	
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE RANGER DISTRICT OFFICE ADDITION

**ASHLEY
NATIONAL FOREST**

FLAMING GORGE RANGER DISTRICT

DRAWING TITLE


SCHEDULES

DATE 11/16/2018	ARCHIVE NO.	
DESIGNER JLA	DRAWING SHEET NO. S010	
DRAWN RK		
CHECKED JLA	SHEET 77 OF 119	
PROJECT NO. 18037.A		

11/16/2018 3:07:09 PM

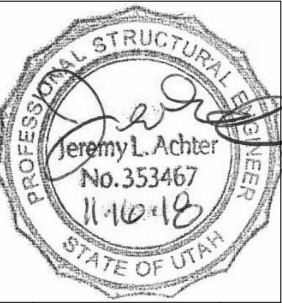
C:\Users\JasonR\Documents\S-18037 - Flaming Gorge Ranger Office Addition-2018_JasonR@jarwengineers.com.rvt

STRUCTURAL STEEL SPECIAL INSPECTION SCHEDULE (CONT.)				
ESTABLISHED PER 2015 IBC SECTION 1705.2.1				
INSPECTION TASKS DURING WELDING (TABLE N5.4-2)	FABRICATOR QUALITY CONTROL		SPECIAL INSPECTOR QUALITY ASSURANCE	
	CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC
USE OF QUALIFIED WELDERS		●		●
CONTROL AND HANDLING OF WELDING CONSUMABLES				
* PACKAGING		●		●
* EXPOSURE CONTROL				
NO WELDING OVER CRACKED TACK WELDS		●		●
ENVIRONMENTAL CONDITIONS				
* WIND SPEED WITHIN LIMITS		●		●
* PRECIPITATION AND TEMPERATURE				
WPS FOLLOWED				
* SETTINGS ON WELDING EQUIPMENT				
* TRAVEL SPEED				
* SELECTED WELDING MATERIALS		●		●
* SHIELDING GAS TYPE / FLOW RATE				
* PREHEAT APPLIED				
* INTERPASS TEMPERATURE MAINTAINED (MIN. / MAX)				
* PROPER POSITION (F, V, H, OH)				
WELDING TECHNIQUES				
* INTERPASS AND FINAL CLEANING		●		●
* EACH PASS WITHIN PROFILE LIMITATIONS				
* EACH PASS MEETS QUALITY REQUIREMENTS				
9. THERMALLY CUT SURFACES OF ACCESS HOLES SHALL BE TESTED BY QA USING MT OR PT, WHEN THE FLANGE THICKNESS EXCEEDS 2 IN. (50mm) FOR ROLLED SHAPES, OR WHEN THE WEB THICKNESS EXCEEDS 2 IN. (50mm) FOR BUILT-UP SHAPES. ANY CRACK SHALL BE DEEMED UNACCEPTABLE REGARDLESS OF SIZE OR LOCATION.				
10. WHEN REQUIRED BY APPENDIX 3, TABLE A-3.1, WELDED JOINTS REQUIRING WELD SOUNDNESS TO BE ESTABLISHED BY RADIOGRAPHICS OR ULTRASONIC INSPECTION SHALL BE TESTED BY QA AS PRESCRIBED. REDUCTION IN THE RATE OF UT IS PROHIBITED.				
11. REDUCTION OF RATE OF ULTRASONIC TESTING - THE RATE OF UT IS ONLY PERMITTED TO BE REDUCED IF APPROVED BY THE EOR AND THE AHJ PER AISC 360-10 CHAPTER N5e.				
12. FOR STRUCTURES IN RISK CATEGORY II, WHERE THE INITIAL RATE FOR UT IS 10%, THE NDT RATE FOR AN INDIVIDUAL WELDER OR WELDING OPERATOR SHALL BE INCREASED TO 100% SHOULD THE REJECT RATE, THE NUMBER OF WELDS CONTAINING UNACCEPTABLE DEFECTS DIVIDED BY THE NUMBER OF WELDS COMPLETED, EXCEEDS 5% OF THE WELDS TESTED FOR THE WELDER OR WELDING OPERATOR. A SAMPLING OF AT LEAST 20 COMPLETED WELDS FOR A JOB SHALL BE MADE PRIOR TO IMPLEMENTING SUCH AN INCREASE. WHEN THE REJECT RATE FOR THE WELDER OR WELDING OPERATOR, AFTER A SAMPLING OF AT LEAST 40 COMPLETED WELDS, HAS FALLEN TO 5% OR LESS, THE RATE OF UT SHALL BE RETURNED TO 10%. FOR EVALUATING THE REJECT RATE OF CONTINUOUS WELDS OVER 3 FT (1M) IN LENGTH WHERE THE EFFECTIVE THROAT IS 1 IN. (25mm) OR LESS, EACH 12 IN. (300mm) INCREMENT OR FRACTION THEREOF SHALL BE CONSIDERED AS ONE WELD. FOR EVALUATING THE REJECT RATE ON CONTINUOUS WELDS OVER 3 FT (1M) IN LENGTH WHERE THE EFFECTIVE THROAT IS GREATER THAN 1 IN. (25mm), EACH 6 IN. (150mm) OF LENGTH OR FRACTION THEREOF SHALL BE CONSIDERED ON WELD.				



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION



4	s/s Regina Freil	
3	11/29/18	
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION

ASHLEY
NATIONAL FOREST

FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

SCHEDULES

DATE 11/16/2018	ARCHIVE NO.
DESIGNER JLA	DRAWING SHEET NO. S011
DRAWN RK	
CHECKED JLA	
PROJECT NO. 18037.A	SHEET 78 OF 119

11/16/2018 3:07:10 PM

C:\Users\JasonR\Documents\S-18037 - Flaming Gorge Ranger Office Addition-2018_JasonR@jarwengineers.com.rvt

STRUCTURAL STEEL SPECIAL INSPECTION SCHEDULE (CONT.)

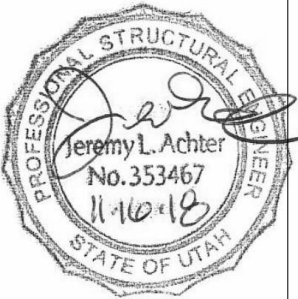
ESTABLISHED PER 2015 IBC SECTION 1705.2.1

INSPECTION TASKS AFTER WELDING (TABLE N5.4-3)	FABRICATOR QUALITY CONTROL		SPECIAL INSPECTOR QUALITY ASSURANCE		NOTES
	CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC	
WELDS CLEANED		●		●	13. ALL NDT PERFORMED SHALL BE DOCUMENTED. FOR SHOP FABRICATION, THE NDT REPORT SHALL IDENTIFY THE TESTED WELD BY PIECE MARK AND LOCATION IN THE PIECE. FOR FIELD WORK, THE NDT REPORT SHALL IDENTIFY THE TESTED WELD BY LOCATION IN THE STRUCTURE, PIECE MARK, AND LOCATION IN THE PIECE. WHEN A WELD IS REJECTED ON THE BASIS OF NDT, THE NDT RECORD SHALL INDICATE THE LOCATION OF THE DEFECT AND THE BASIS OF REJECTION.
SIZE, LENGTH AND LOCATION OF WELDS	●		●		
WELDS MEET VISUAL ACCEPTANCE CRITERIA	●		●		
* CRACK PROHIBITION					
* WELD / BASE-METAL FUSION					
* CRATER CROSS SECTION					
* WELD PROFILES					
* WELD SIZE					
* UNDERCUT					
* POROSITY					
ARC STRIKES	●		●		
K-AREA ¹	●		●		
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	●		●		
REPAIR ACTIVITIES	●		●		
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	●		●		
¹ WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3 IN. (75mm) OF THE WELD)					



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION



4	s/s Regina Fred	
3	11/29/18	
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION

ASHLEY
NATIONAL FOREST

FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

SCHEDULES

DATE 11/16/2018	ARCHIVE NO.
DESIGNER JLA	DRAWING SHEET NO. S012
DRAWN RK	
CHECKED JLA	
PROJECT NO. 18037.A	SHEET 79 OF 119

11/16/2018 3:07:10 PM

C:\Users\JasonR\Documents\18037 - Flaming Gorge Ranger Office Addition-2018_JasonR@jarwengineers.com.rvt

STRUCTURAL STEEL SPECIAL INSPECTION SCHEDULE (CONT.)					
ESTABLISHED PER 2015 IBC SECTION 1705.2.1					
INSPECTION TASKS PRIOR TO BOLTING (TABLE N5.6-1)	CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC	NOTES
MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS		●	●		
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS		●		●	
PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)		●		●	
PROPER BOLTING PROCEDURES SELECTED FOR JOINT DETAIL		●		●	
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS		●		●	
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	●			●	
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS		●		●	
INSPECTION TASKS DURING BOLTING (TABLE N5.6-2)	CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC	
FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED		●		●	
JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION		●		●	1. PERIODIC - OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS. 2. CONTINUOUS - PERFORM THESE TASKS FOR EACH BOLTED CONNECTION. 3. QUALITY CONTROL (QC) SHALL BE PROVIDED BY THE FABRICATOR AND ERECTOR. 4. QUALITY ASSURANCE (QA) SHALL BE PROVIDED BY OTHERS WHEN REQUIRED BY THE AUTHORITY HAVING JURISDICTION (AHJ), APPLICABLE BUILDING CODE (ABC), PURCHASER, OWNER, OR ENGINEER OF RECORD (EOR). NONDESTRUCTIVE TESTING (NDT) SHALL BE PERFORMED BY THE AGENCY OR FIRM RESPONSIBLE FOR QUALITY ASSURANCE, EXCEPT AS PERMITTED IN ACCORDANCE WITH SECTION N7. 5. FOR SNUG-TIGHT JOINTS, PRE-INSTALLATION VERIFICATION TESTING AS SPECIFIED IN TABLE N5.6-1 AND MONITORING OF THE INSTALLATION PROCEDURES AS SPECIFIED IN TABLE N5.6-2 ARE NOT APPLICABLE. THE QCI AND QAI NEED NOT BE PRESENT DURING THE INSTALLATION OF FASTENERS IN SNUG-TIGHT JOINTS. 6. FOR PRETENSIONED JOINTS AND SLIP-CRITICAL JOINTS, WHEN THE INSTALLER IS USING THE TURN-OF-NUT METHOD WITH MATCHMARKING TECHNIQUES, THE DIRECT-TENSION-INDICATOR METHOD, OR THE TWIST-OFF-TYPE TENSION CONTROL BOLT METHOD, MONITORING OF BOLT PRETENSIONING PROCEDURES SHALL BE AS SPECIFIED IN TABLE N5.6-2. THE QCI AND QAI NEED NOT BE PRESENT DURING THE INSTALLATION OF FASTENERS WHEN THESE METHODS ARE USED BY THE INSTALLER. 7. FOR PRETENSIONED JOINTS AND SLIP-CRITICAL JOINTS, WHEN THE INSTALLER IS USING THE CALIBRATED WRENCH METHOD OR THE TURN-OF-NUT METHOD WITHOUT MATCHMARKING, MONITORING OF BOLT PRETENSIONING PROCEDURES SHALL BE AS SPECIFIED IN TABLE N5.6-2. THE QCI AND QAI SHALL BE ENGAGED IN THEIR ASSIGNED INSPECTION DUTIES DURING INSTALLATION OF FASTENERS WHEN THESE METHODS ARE USED BY THE INSTALLER. 8. OBSERVATION OF BOLTING OPERATIONS SHALL BE THE PRIMARY METHOD USED TO CONFIRM THAT THE MATERIALS, PROCEDURES AND WORKMANSHIP INCORPORATED IN CONSTRUCTION ARE IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS AND THE PROVISIONS OF THE RCSC SPECIFICATION.
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING		●		●	
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES		●		●	
INSPECTION TASKS AFTER BOLTING (TABLE N5.6-3)	CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC	
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	●		●		



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION



4	s/s Regina Freed	
3	11/29/18	
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION

ASHLEY
NATIONAL FOREST

FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

SCHEDULES

DATE 11/16/2018	ARCHIVE NO.
DESIGNER JLA	DRAWING SHEET NO.
DRAWN RK	S013
CHECKED JLA	
PROJECT NO. 18037.A	SHEET 80 OF 119

11/16/2018 3:07:10 PM

C:\Users\JasonR\Documents\18037 - Flaming Gorge Ranger Office Addition-2018_JasonR@jarwengineers.com.rvt

STRUCTURAL STEEL SPECIAL INSPECTION SCHEDULE (CONT.)

ESTABLISHED PER 2015 IBC SECTION 1705.2.1

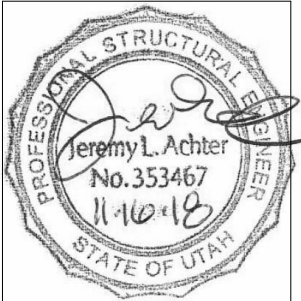
GENERAL STEEL SPECIAL INSPECTION NOTES :

- 1. QUALITY ASSURANCE (QA) INSPECTION OF FABRICATED ITEMS SHALL BE MADE AT THE FABRICATOR'S PLANT. THE QUALITY ASSURANCE INSPECTOR (QAI) SHALL SCHEDULE THIS WORK TO MINIMIZE INTERRUPTION TO THE WORK OF THE FABRICATOR.
- 2. QA INSPECTION OF THE ERECTED STEEL SYSTEM SHALL BE MADE AT THE PROJECT SITE. THE QAI SHALL SCHEDULE THIS WORK TO MINIMIZE INTERRUPTION TO THE WORK OF THE ERECTOR.
- 3. WHERE A TASK IS NOTED TO BE PERFORMED BY BOTH QC AND QA, IT IS PERMITTED TO COORDINATE THE INSPECTION FUNCTION BETWEEN THE QCI AND QAI SO THAT THE INSPECTION FUNCTIONS ARE PERFORMED BY ONLY ONE PARTY. WHERE QA RELIES UPON INSPECTION FUNCTIONS PERFORMED BY QC, THE APPROVAL OF THE CONTRACTING OFFICER IS REQUIRED.
- 4. THE FABRICATOR'S QCI SHALL INSPECT THE FABRICATED STEEL TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE SHOP DRAWINGS, SUCH AS PROPER APPLICATION OF JOINT DETAILS AT EACH CONNECTION. THE ERECTOR'S QCI SHALL INSPECT THE ERECTED STEEL FRAME TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE ERECTION DRAWINGS, SUCH AS BRACES, STIFFENERS, MEMBER LOCATIONS AND PROPER APPLICATION OF JOINT DETAILS AT EACH CONNECTION.
- 5. THE QAI SHALL BE ON THE PREMISES FOR INSPECTION DURING THE PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. AS A MINIMUM, THE DIAMETER, GRADE, TYPE AND LENGTH OF THE ANCHOR ROD OR EMBEDDED ITEM, AND THE EXTENT OR DEPTH OF EMBEDMENT INTO THE CONCRETE, SHALL BE VERIFIED PRIOR TO PLACEMENT OF THE CONCRETE.
- 6. THE QAI SHALL INSPECT THE FABRICATED STEEL OR ERECTED STEEL FRAME, AS APPROPRIATE, TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE CONSTRUCTION DOCUMENTS, SUCH AS BRACES, STIFFENERS, MEMBER LOCATIONS AND PROPER APPLICATION OF JOINT DETAILS AT EACH CONNECTION.
- 7. QUALITY ASSURANCE (QA) INSPECTIONS, EXCEPT NONDESTRUCTIVE TESTING (NDT), MAY BE WAIVED WHEN THE WORK IS PERFORMED IN A FABRICATING SHOP OR BY AN ERECTOR APPROVED BY THE AUTHORITY HAVING JURISDICTION (AHJ) TO PERFORM THE WORK WITHOUT QA. NDT OF WELDS COMPLETED IN AN APPROVED FABRICATOR'S SHOP MAY BE PERFORMED BY THAT FABRICATOR WHEN APPROVED BY THE AHJ. WHEN THE FABRICATOR PERFORMS THE NDT, THE QA AGENCY SHALL REVIEW THE FABRICATOR'S NDT REPORTS.
- 8. AT COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE AHJ STATING THAT THE MATERIALS SUPPLIED AND WORK PERFORMED BY THE FABRICATOR ARE IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS. AT COMPLETION OF ERECTION, THE APPROVED ERECTOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE AHJ STATING THAT THE MATERIALS SUPPLIED AND WORK PERFORMED BY THE ERECTOR ARE IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.
- 9. IDENTIFICATION AND REJECTION OF MATERIAL OR WORKMANSHIP THAT IS NOT IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS, SHALL BE PERMITTED AT ANY TIME DURING THE PROGRESS OF THE WORK. HOWEVER, THIS PROVISION SHALL NOT RELIEVE THE OWNER OR THE INSPECTOR OF THE OBLIGATION FOR TIMELY, IN-SEQUENCE INSPECTIONS. NONCONFORMING MATERIAL AND WORKMANSHIP SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE FABRICATOR OR ERECTOR, AS APPLICABLE.
- 10. NONCONFORMING MATERIAL OR WORKMANSHIP SHALL BE BROUGHT INTO CONFORMANCE, OR MADE SUITABLE FOR ITS INTENDED PURPOSE AS DETERMINED BY THE ENGINEER OF RECORD.
- 11. CONCURRENT WITH THE SUBMITTAL OF SUCH REPORTS TO THE CONTRACTING OFFICER, THE QA AGENCY SHALL SUBMIT TO THE FABRICATOR AND ERECTOR:
 - (1) NONCONFORMANCE REPORTS
 - (2) REPORTS OF REPAIR, REPLACEMENT OR ACCEPTANCE OF NONCONFORMING ITEMS.



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION



4	s/s Regina Fred	
3	11/29/18	
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION

ASHLEY
NATIONAL FOREST

FLAMING GORGE RANGER DISTRICT

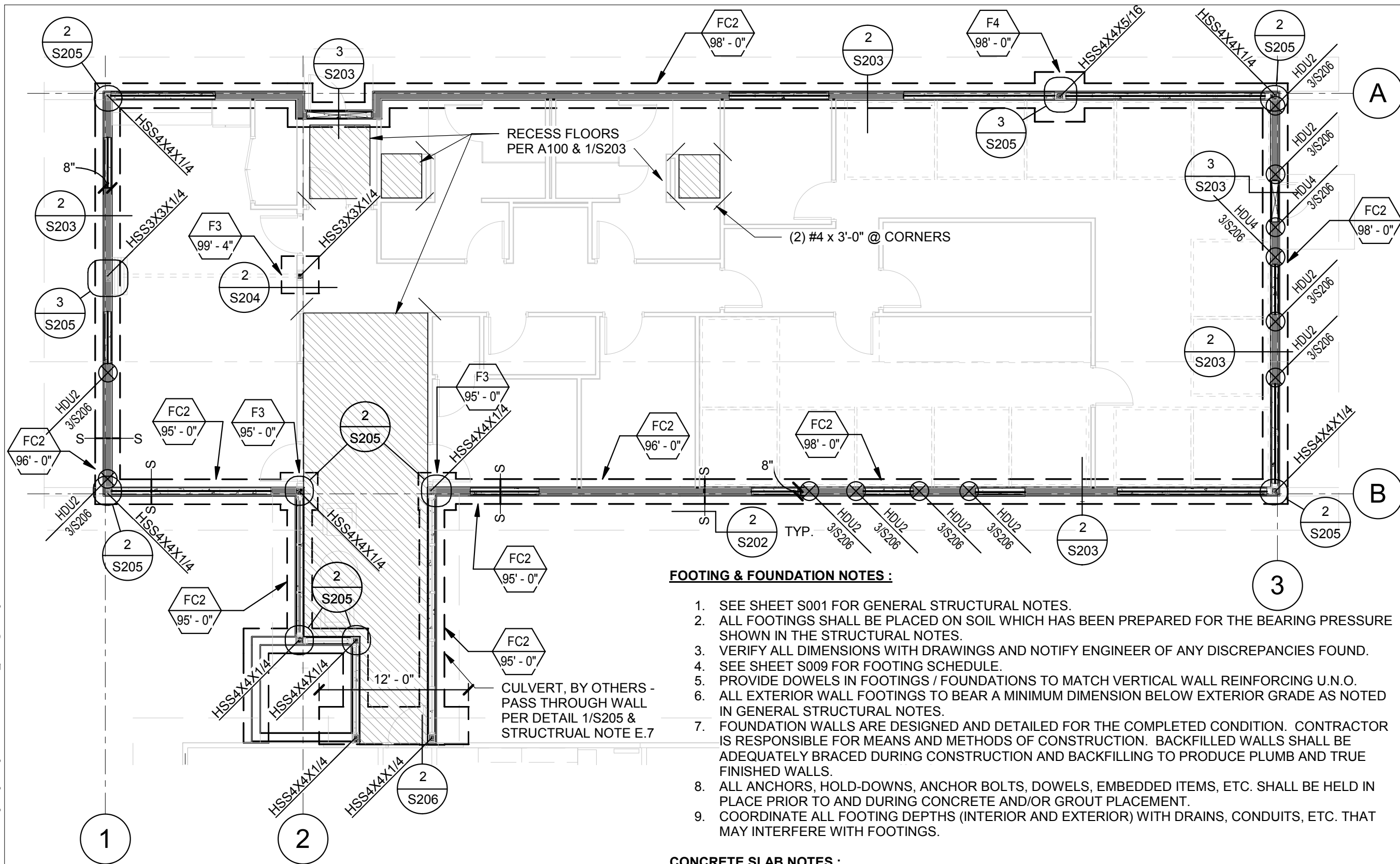
DRAWING TITLE

SCHEDULES

DATE 11/16/2018	ARCHIVE NO.
DESIGNER JLA	DRAWING SHEET NO. S014
DRAWN RK	
CHECKED JLA	
PROJECT NO. 18037.A	SHEET 81 OF 119

11/16/2018 3:07:11 PM

C:\Users\JasonR\Documents\S-18037 - Flaming Gorge Ranger Office Addition-2018_jasonr@jarwengr.com.rvt



FOOTING & FOUNDATION NOTES :

1. SEE SHEET S001 FOR GENERAL STRUCTURAL NOTES.
2. ALL FOOTINGS SHALL BE PLACED ON SOIL WHICH HAS BEEN PREPARED FOR THE BEARING PRESSURE SHOWN IN THE STRUCTURAL NOTES.
3. VERIFY ALL DIMENSIONS WITH DRAWINGS AND NOTIFY ENGINEER OF ANY DISCREPANCIES FOUND.
4. SEE SHEET S009 FOR FOOTING SCHEDULE.
5. PROVIDE DOWELS IN FOOTINGS / FOUNDATIONS TO MATCH VERTICAL WALL REINFORCING U.N.O.
6. ALL EXTERIOR WALL FOOTINGS TO BEAR A MINIMUM DIMENSION BELOW EXTERIOR GRADE AS NOTED IN GENERAL STRUCTURAL NOTES.
7. FOUNDATION WALLS ARE DESIGNED AND DETAILED FOR THE COMPLETED CONDITION. CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION. BACKFILLED WALLS SHALL BE ADEQUATELY BRACED DURING CONSTRUCTION AND BACKFILLING TO PRODUCE PLUMB AND TRUE FINISHED WALLS.
8. ALL ANCHORS, HOLD-DOWNS, ANCHOR BOLTS, DOWELS, EMBEDDED ITEMS, ETC. SHALL BE HELD IN PLACE PRIOR TO AND DURING CONCRETE AND/OR GROUT PLACEMENT.
9. COORDINATE ALL FOOTING DEPTHS (INTERIOR AND EXTERIOR) WITH DRAINS, CONDUITS, ETC. THAT MAY INTERFERE WITH FOOTINGS.

CONCRETE SLAB NOTES :

1. SLAB ON GRADE SHALL BE 4" THICK CONCRETE U.N.O. SLAB SHALL BE UNDERLAIN BY FREE DRAINING MATERIAL AS PRESCRIBED IN THE SOILS REPORT.
2. SEE SHEET TYPICAL DETAIL FOR CONTROL AND CONSTRUCTION JOINT INFORMATION.

FOOTING & FOUNDATION PLAN

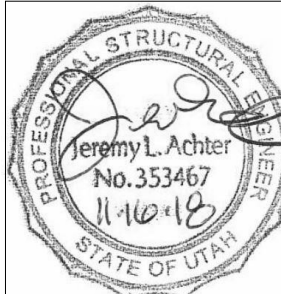
SCALE : 1/8" = 1'-0"

1
S101



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION



4	s/s Regina Fred	
3	11/29/18	
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

**FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION**

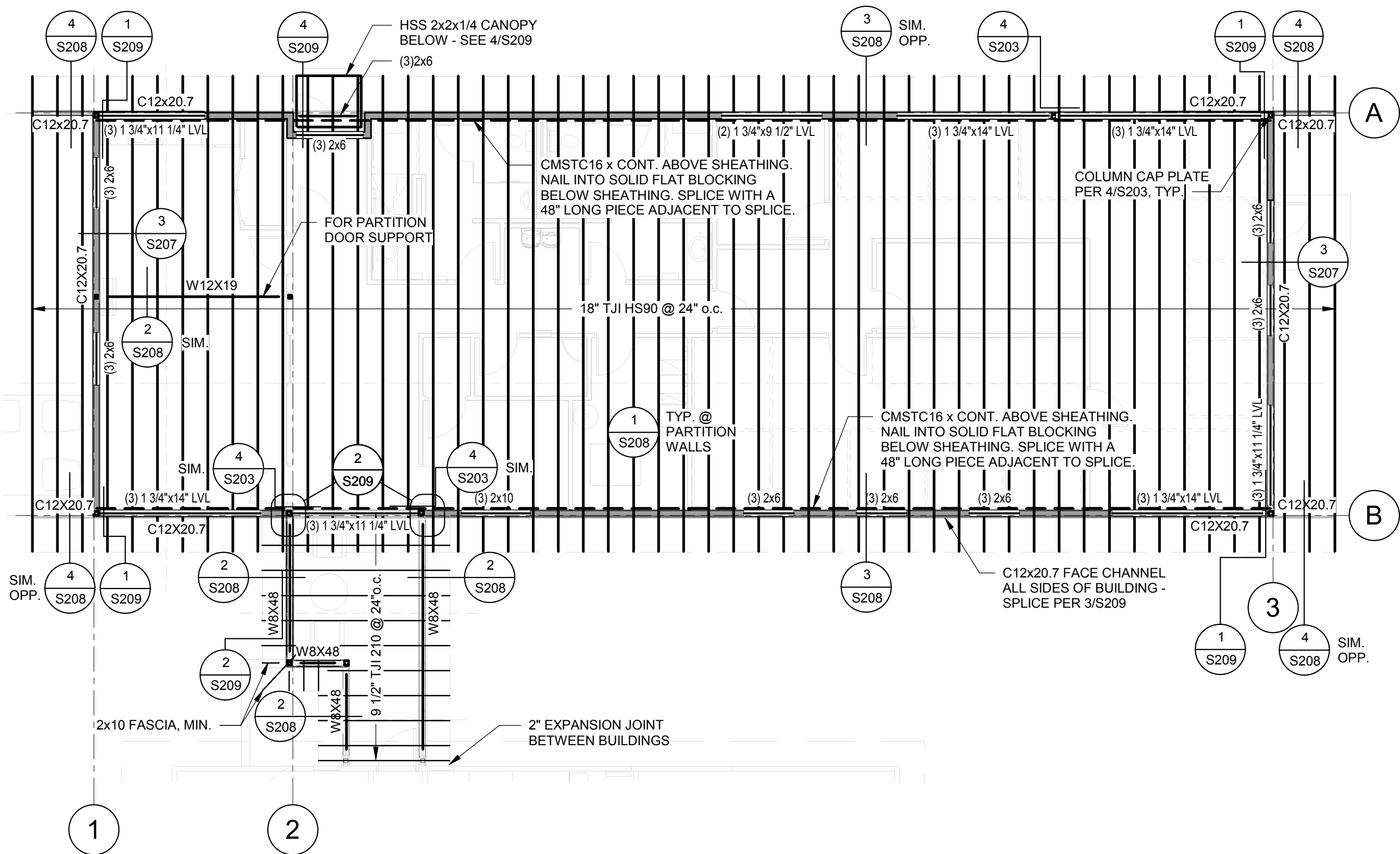
**ASHLEY
NATIONAL FOREST**

FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

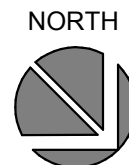
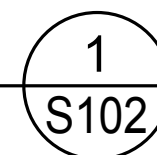
**FOOTING AND
FOUNDATION
PLAN**

DATE 11/16/2018	ARCHIVE NO.
DESIGNER JLA	DRAWING SHEET NO. S101
DRAWN RK	
CHECKED JLA	
PROJECT NO. 18037.A	SHEET 82 OF 119



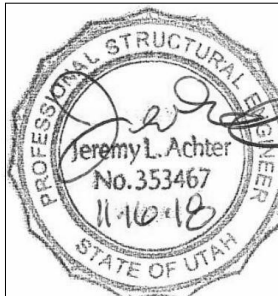
ROOF FRAMING PLAN

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



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION



4	s/s Regina Fred	
3	11/29/18	
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE RANGER DISTRICT OFFICE ADDITION

ASHLEY
NATIONAL FOREST

FLAMING GORGE RANGER DISTRICT

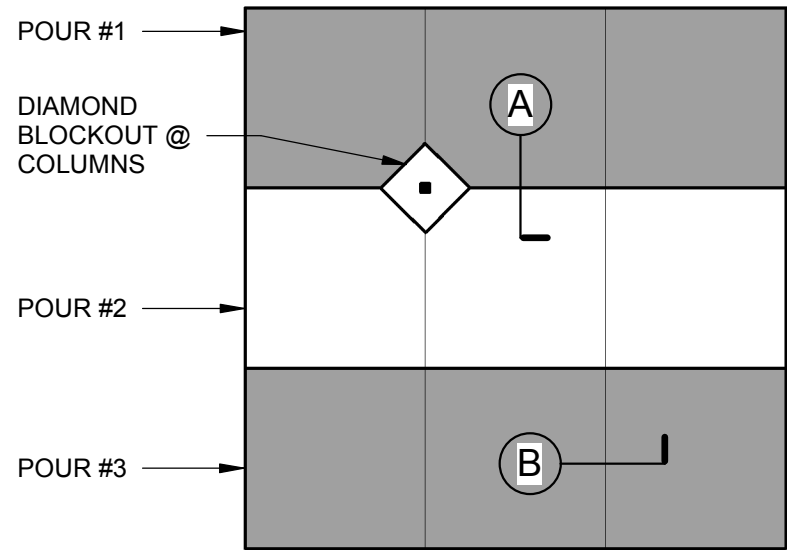
DRAWING TITLE

ROOF FRAMING PLAN

DATE 11/16/2018	ARCHIVE NO.	
DESIGNER JLA	DRAWING SHEET NO. S102	
DRAWN RK		
CHECKED JLA	SHEET 83 OF 119	
PROJECT NO. 18037.A		

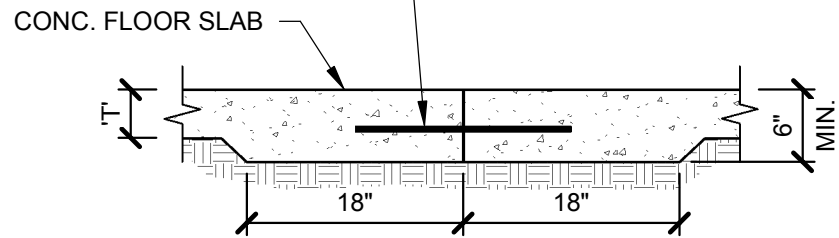
11/16/2018 3:07:12 PM

C:\Users\JasonR\Documents\S-18037 - Flaming Gorge Ranger Office Addition-2018_JasonR@jarwengineers.com.rvt



- NOTES:
- JOINTS SHALL OCCUR AT MAIN COLUMN/GRID LINES W/ 10'-0" MAX. SPACING BETWEEN JOINTS @ 4" SLABS.
 - SEE PLAN FOR SLAB THICKNESS 'T' AND REINFORCING SIZE AND SPACING.

PLATE DOWELS @ 24"o.c.
OR 1/2"Ø x 18" UNBONDED
DOWELS @ 18"o.c.



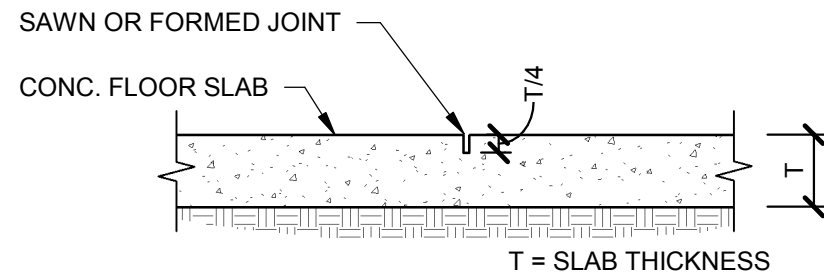
NOTE: THICKENING OF SLAB
NOT REQUIRED FOR SLABS
WITH T = 6" OR GREATER

T = SLAB THICKNESS

CONSTRUCTION JOINT

SCALE : NONE

A



CONTROL JOINT

SCALE : NONE

B

TYPICAL CONCRETE SLAB JOINTS

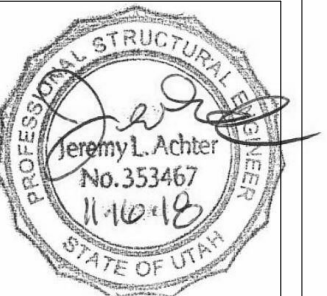
SCALE : NONE

1
S201



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION



4	s/s Regina Freal	
3	11/29/18	
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME
**FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION**

**ASHLEY
NATIONAL FOREST**

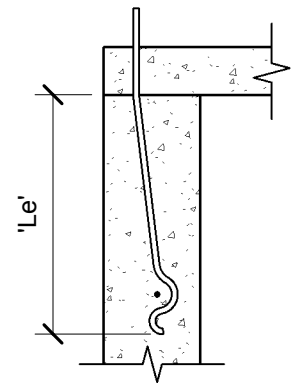
FLAMING GORGE RANGER DISTRICT

DRAWING TITLE
DETAILS

DATE 11/16/2018	ARCHIVE NO.
DESIGNER JLA	DRAWING SHEET NO. S201
DRAWN RK	
CHECKED JLA	
PROJECT NO. 18037.A	SHEET 84 OF 119

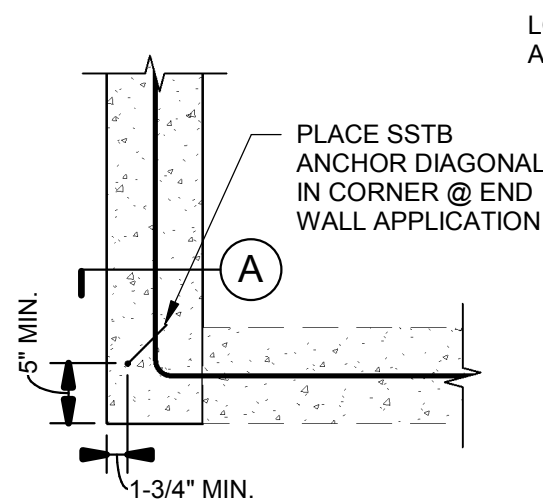
11/16/2018 3:07:12 PM

C:\Users\JasonR\Documents\18037 - Flaming Gorge Ranger Office Addition-2018 JasonR\arwengineers.com.rvt



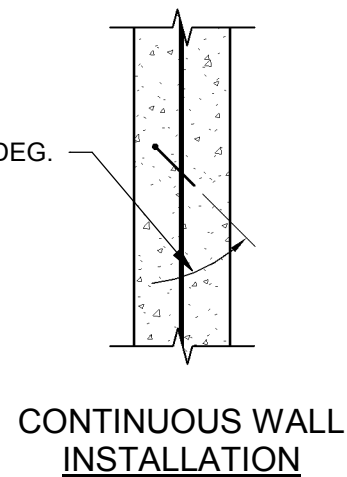
SECTION A

HOLDOWN SIZE	ANCHOR SIZE	MIN. EMBEDMENT DEPTH "Le"
HDU2	SSTB16	12-5/8"
HDU4	SSTB20	16-5/8"



CORNER / END WALL INSTALLATION

LOCATE APPROX. 45 DEG.



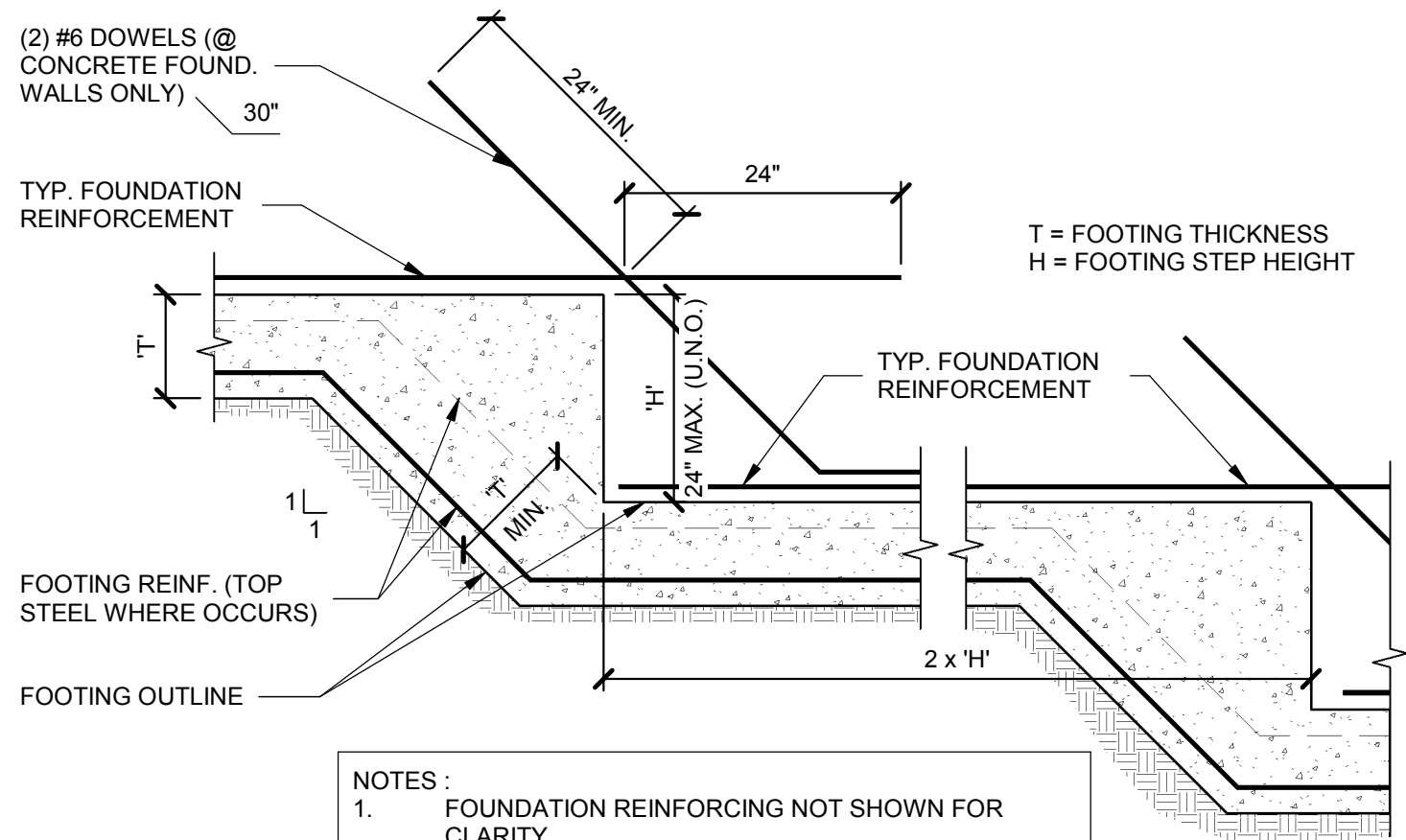
CONTINUOUS WALL INSTALLATION

(2) #6 DOWELS (@ CONCRETE FOUND. WALLS ONLY)

TYP. FOUNDATION REINFORCEMENT

FOOTING REINF. (TOP STEEL WHERE OCCURS)

FOOTING OUTLINE



NOTES :

1. FOUNDATION REINFORCING NOT SHOWN FOR CLARITY.
2. SEE FOOTING SCHEDULE FOR FOOTING WIDTH AND REINFORCING SIZE AND LOCATION. ALL FOOTING REINFORCING REFERENCED IN THE SCHEDULE OR SHOWN IN THE DETAILS MUST RUN CONTINUOUS THROUGH THE FOOTING STEP.

HOLDOWN EMBED SCHEDULE

SCALE : NONE

1
S202

L

TYPICAL STEPPED FOOTING

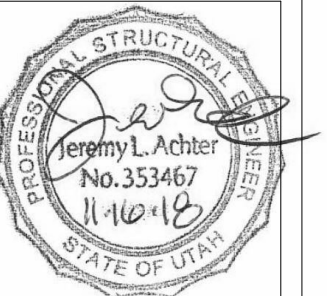
SCALE : NONE

2
S202



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION



4	s/s Regina Freed	
3	11/29/18	
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION

ASHLEY
NATIONAL FOREST

FLAMING GORGE RANGER DISTRICT

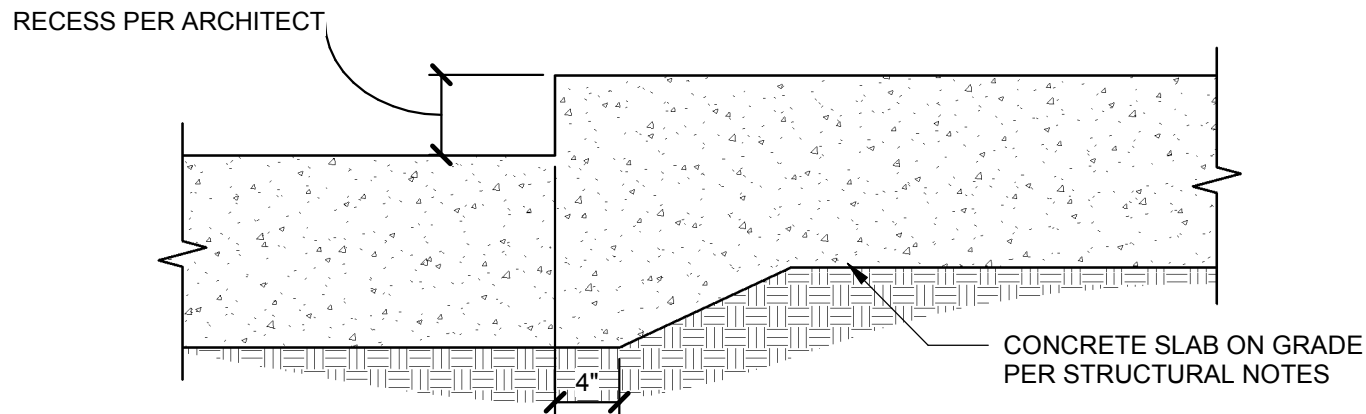
DRAWING TITLE

DETAILS

DATE 11/16/2018	ARCHIVE NO.
DESIGNER JLA	DRAWING SHEET NO. S202
DRAWN RK	
CHECKED JLA	
PROJECT NO. 18037.A	SHEET 85 OF 119

11/16/2018 3:07:13 PM

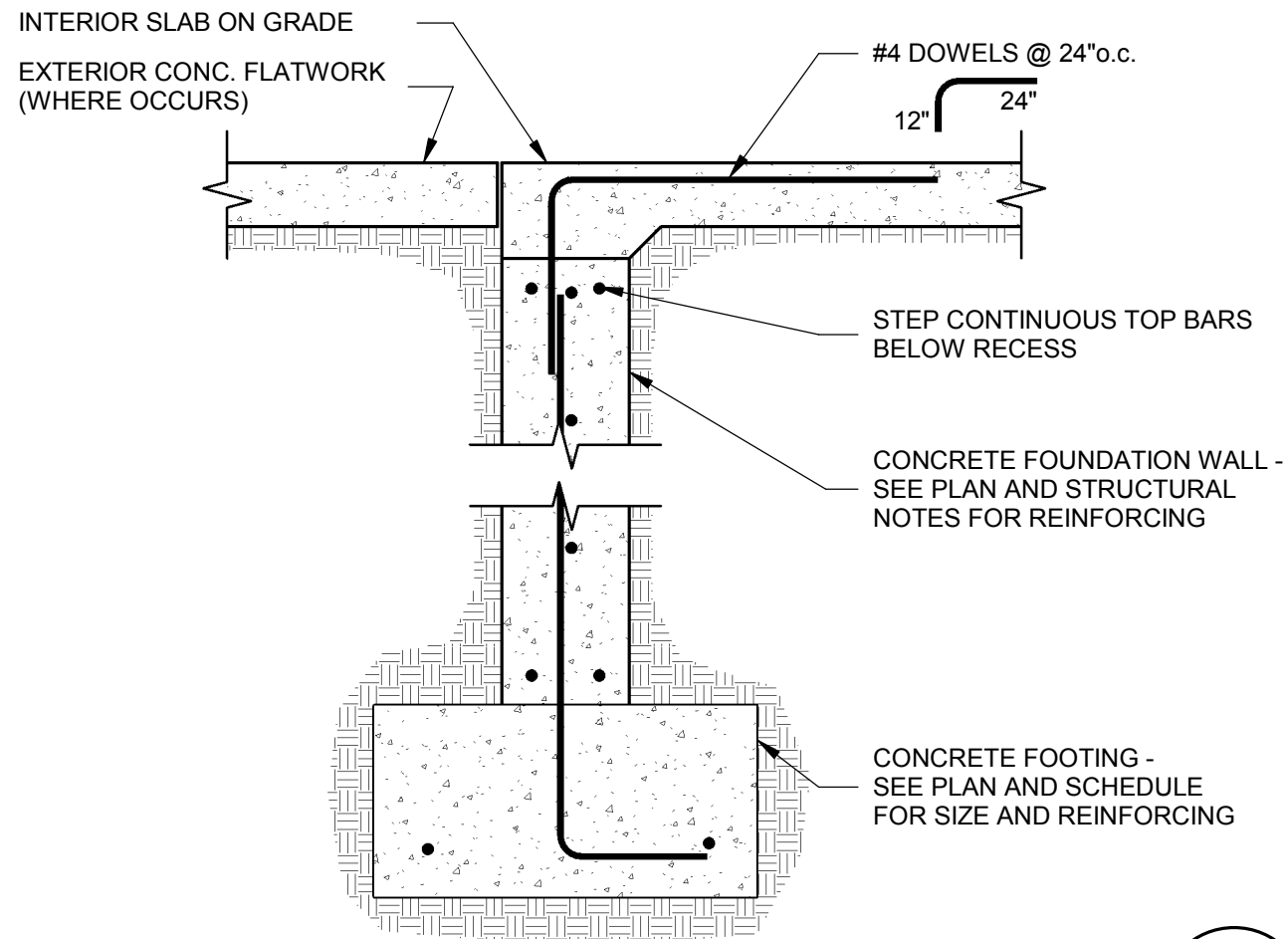
C:\Users\JasonR\Documents\18037 - Flaming Gorge Ranger Office Addition-2018_jasonr@jarwengineers.com.rvt



DETAIL

SCALE : NONE

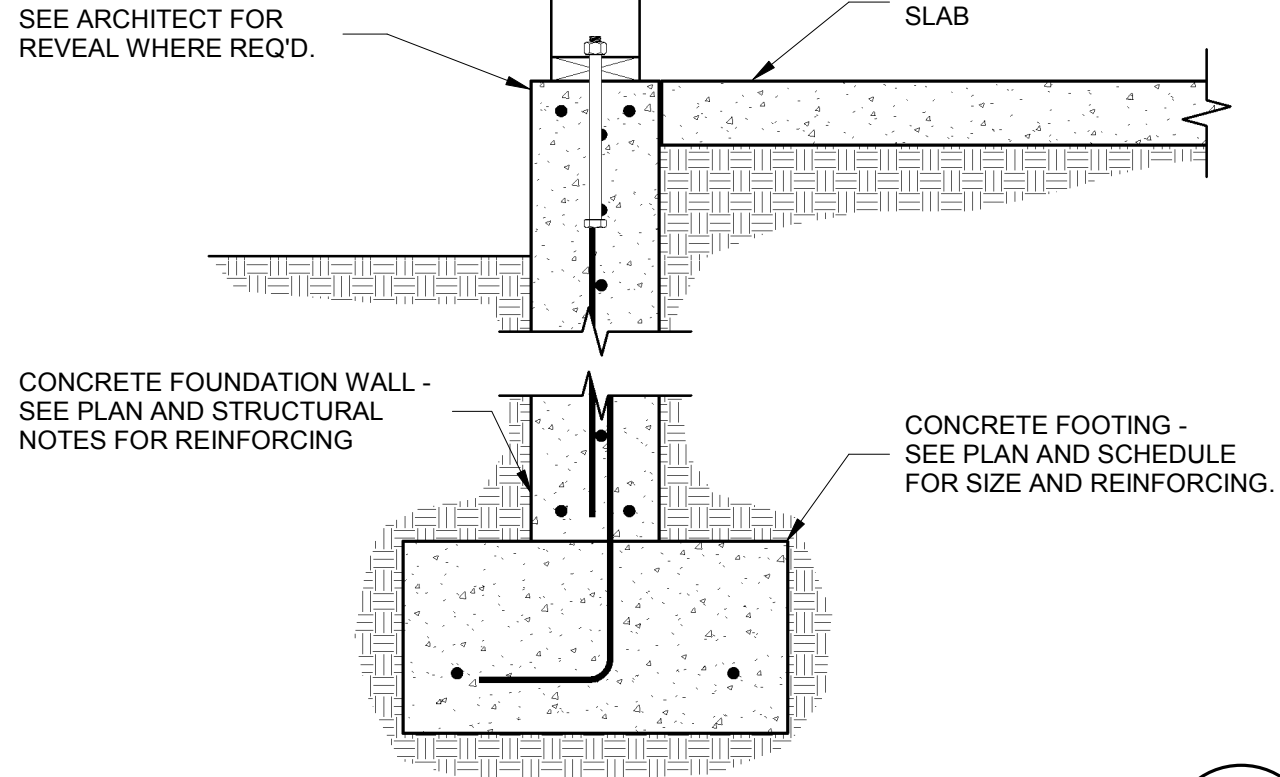
1
S203



DETAIL

SCALE : NONE

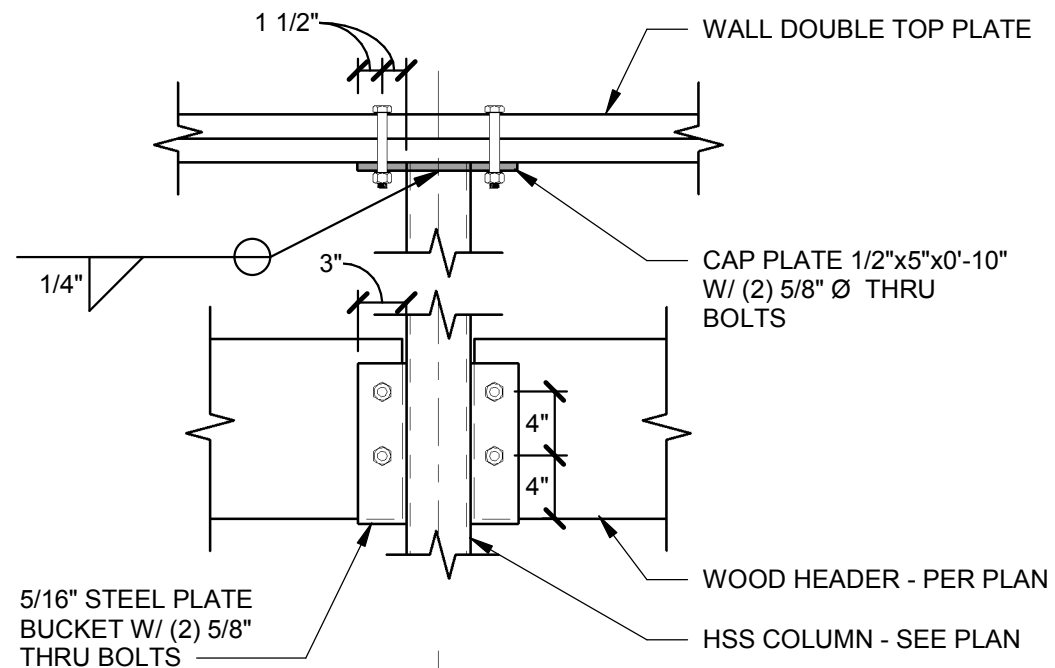
3
S203



DETAIL

SCALE : NONE

2
S203



DETAIL

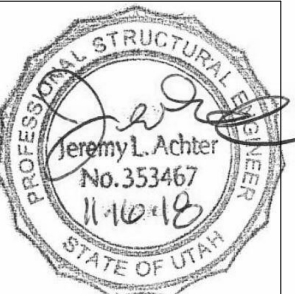
SCALE : NONE

4
S203



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION



4	s/s Regina Fret	
3	11/29/18	
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME
**FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION**

**ASHLEY
NATIONAL FOREST**

FLAMING GORGE RANGER DISTRICT

DRAWING TITLE
DETAILS

DATE 11/16/2018	ARCHIVE NO.
DESIGNER JLA	DRAWING SHEET NO. S203
DRAWN RK	
CHECKED JLA	
PROJECT NO. 18037.A	SHEET 86 OF 119

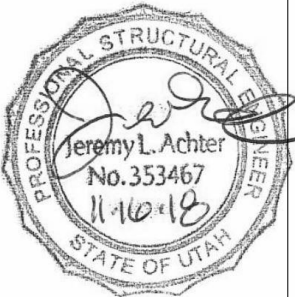
11/16/2018 3:07:13 PM

C:\Users\JasonR\Documents\18037 - Flaming Gorge Ranger Office Addition-2018 JasonR@jarwengineers.com.rvt



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION



4	s/s Regina Fred	
3	11/29/18	
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION

ASHLEY
NATIONAL FOREST

FLAMING GORGE RANGER DISTRICT

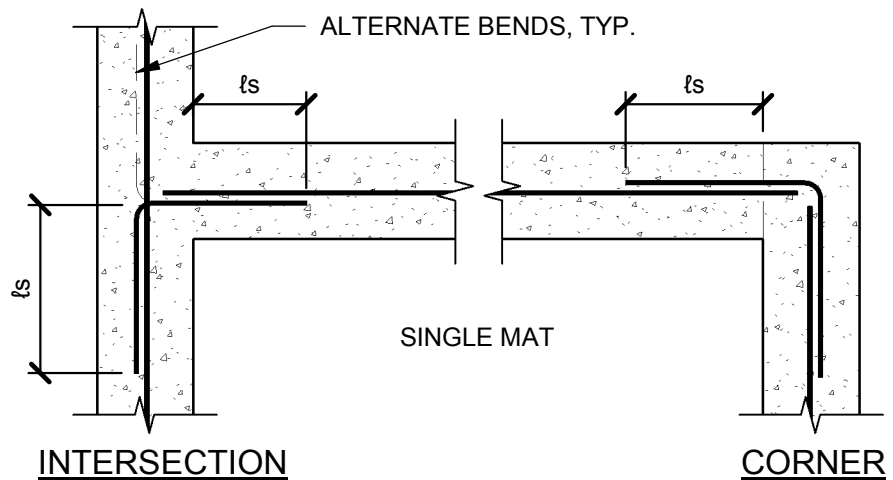
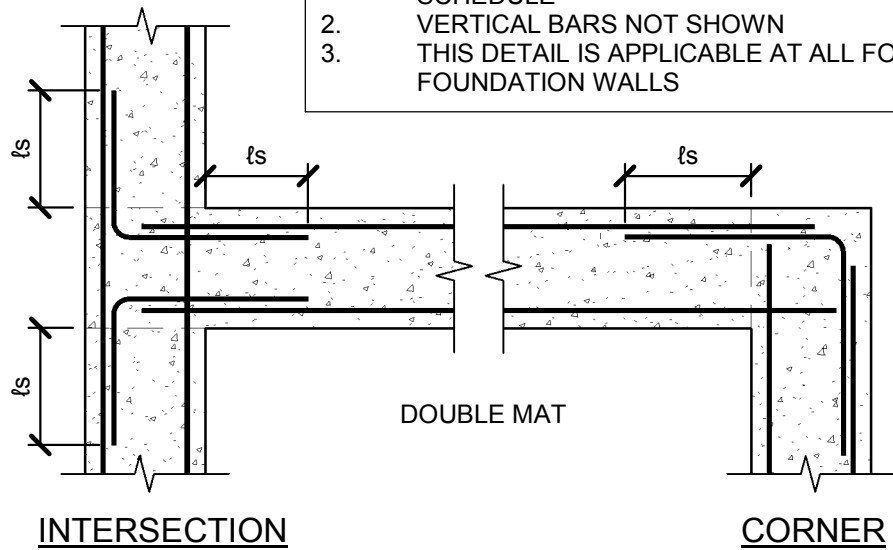
DRAWING TITLE

DETAILS

DATE 11/16/2018	ARCHIVE NO.
DESIGNER JLA	DRAWING SHEET NO. S204
DRAWN RK	
CHECKED JLA	
PROJECT NO. 18037.A	SHEET 87 OF 119

NOTES:

1. ℓ_s = LAP SPLICE LENGTH - SEE REBAR LAP SCHEDULE
2. VERTICAL BARS NOT SHOWN
3. THIS DETAIL IS APPLICABLE AT ALL FOOTINGS AND FOUNDATION WALLS



TYP. REINF. @ INTERSECTIONS IN CONC.
DETAIL

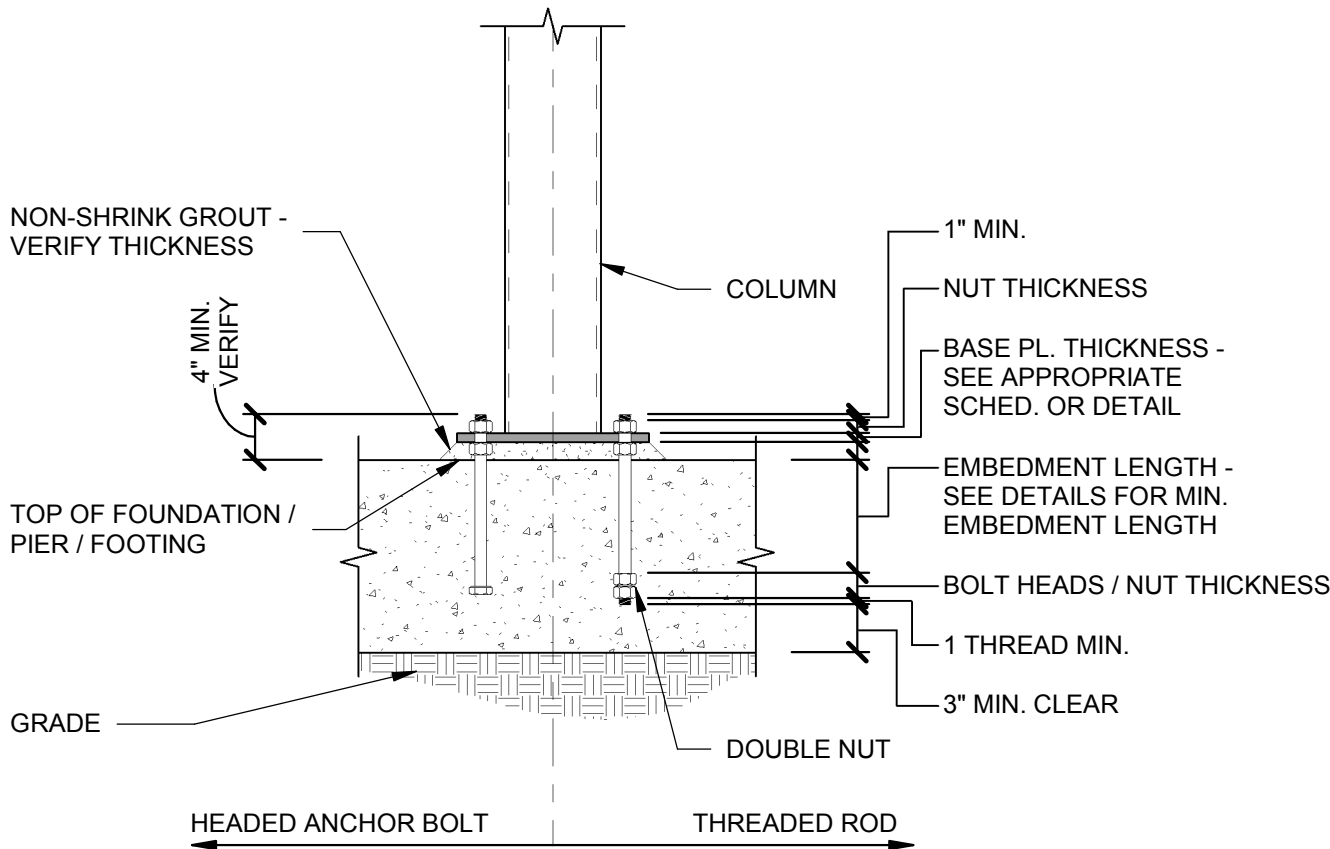
SCALE : NONE

1
S204

TYPICAL ANCHOR BOLT EMBEDMENT
DETAIL

SCALE : NONE

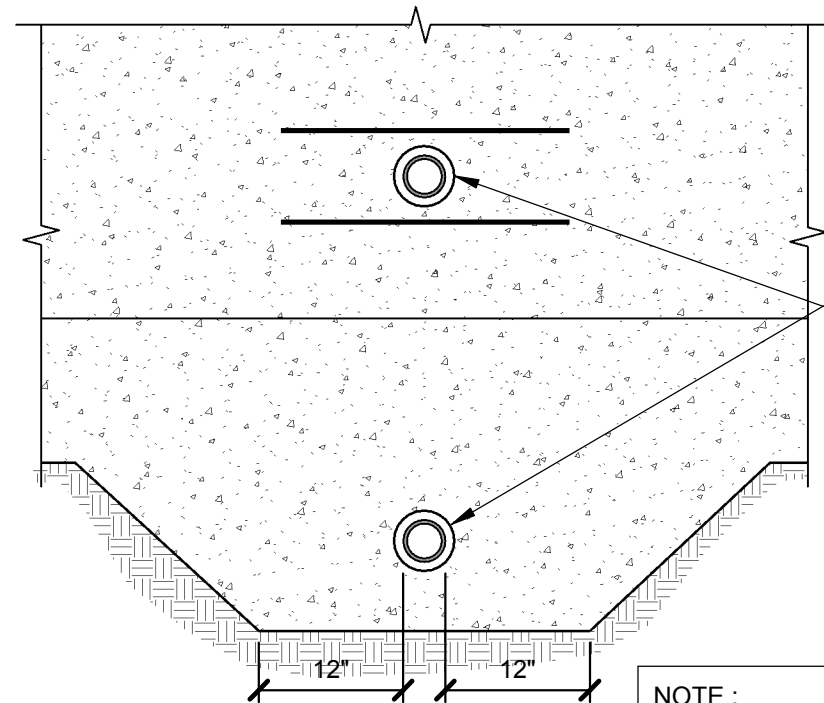
2
S204



11/16/2018 3:07:14 PM

C:\Users\JasonR\Documents\18037 - Flaming Gorge Ranger Office Addition-2018 JasonR@jarwengineers.com.rvt

NOTE:
TYPICAL FOUNDATION WALL
REINF. NOT SHOWN FOR CLARITY.



PIPE TO CLEAR
SLEEVE BY 1"
ALL AROUND

SLEEVE
5"

NOTE :
FOR OPENINGS LARGER THAN 12" IN ANY DIRECTION
- SEE STRUCTURAL NOTE E-7.

NOTE :
1. DETAIL IS SIMILAR AT MASONRY
FOUNDATION WALLS.
2. SEE TYPICAL DETAIL FOR MULTIPLE WALL
PENETRATIONS.

CONCRETE OR CMU
FOUNDATION WALL

(1) #5 x24" ABOVE &
BELOW SLEEVE IN
FOUNDATION WALLS

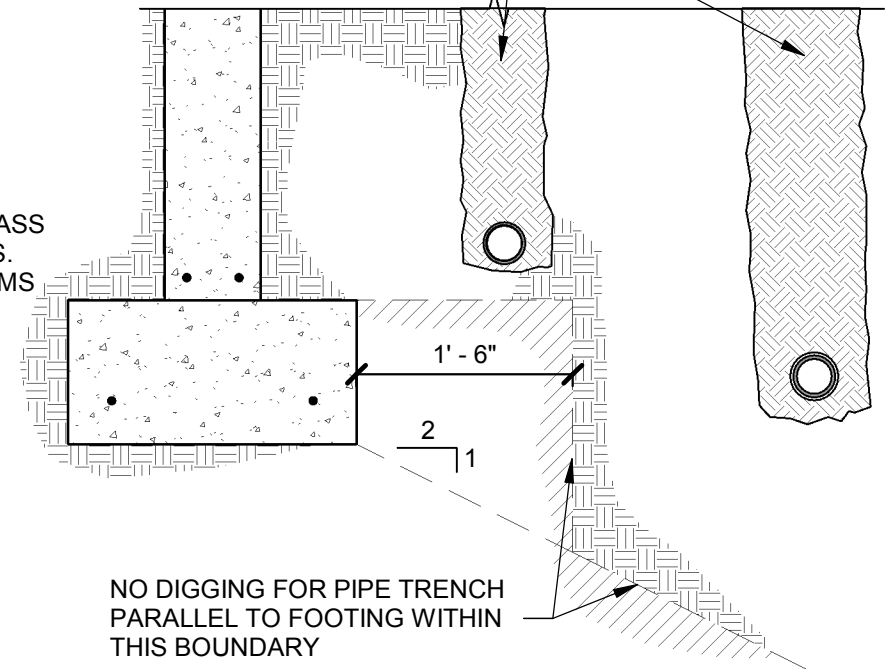
NO PIPES
ALLOWED TO PASS
THROUGH FTGS.
OR GRADE BEAMS

4" MIN.
24" MAX.

BOTTOM OF FOOTING

THICKEN FOOTING
WHERE PIPE IS LESS
THAN 24" BELOW
BOTTOM OF FOOTING

UTILITY TRENCHES
BACK FILL & COMPACT PER
GEOTECHNICAL REPORT



PIPE CROSSING FOOTING / FOUNDATION WALL

PIPE PARALLEL TO FOOTING

ALLOWABLE PIPING LOCATIONS @ FOOTING DETAIL

SCALE : NONE

BASE PLATE 3/4" x REQ'D
W/ (4) 3/4"Ø ANCHOR BOLTS
W/ 8" EMBEDMENT - FLUSH
W/ COLUMN ON OUTSIDE

HSS COLUMN W/ THREADED
STUDS PER STRUCTURAL
NOTE I.8- SEE PLAN

1 1/2"
TYP.

CONCRETE FOUNDATION
WALL - SEE STRUCTURAL
NOTES FOR SIZE AND
REINFORCING

2 SIDES
2 SIDES

1/4"

1" NON-SHRINK GROUT

DETAIL

SCALE : NONE

2
S205

DETAIL

SCALE : NONE

BASE PLATE 3/4" x 5" x 0'-10"

HSS COLUMN W/ THREADED
STUDS PER STRUCTURAL
NOTE I.8- SEE PLAN

CONCRETE FOUNDATION
WALL - SEE STRUCTURAL
NOTES FOR SIZE AND
REINFORCING

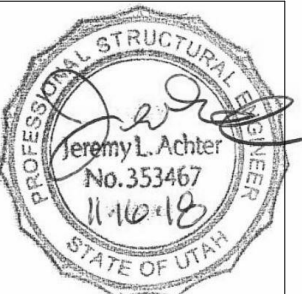
1/4" 3 SIDES

1
S205



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION



4	s/s Regina Freed	
3	11/29/18	
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION

ASHLEY
NATIONAL FOREST

FLAMING GORGE RANGER DISTRICT

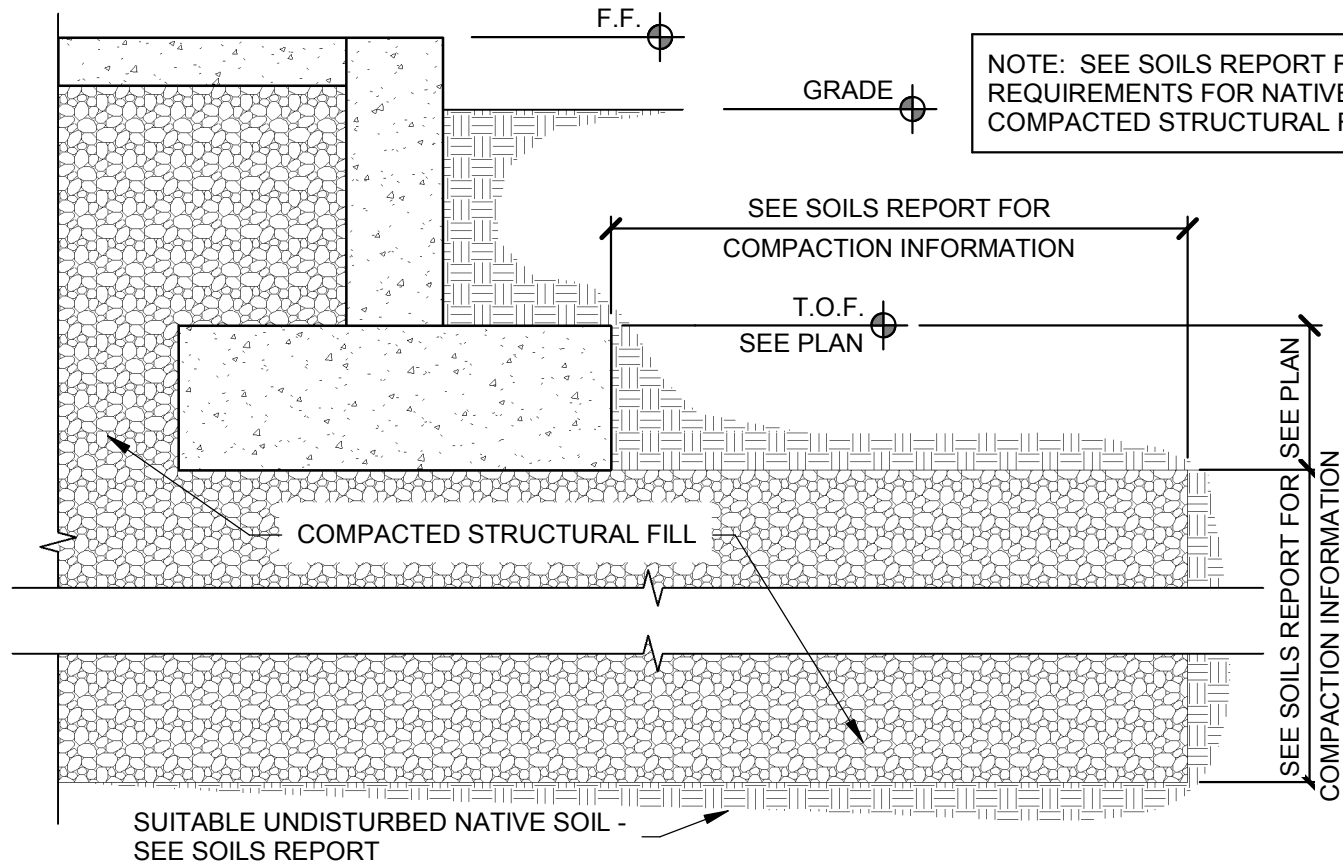
DRAWING TITLE

DETAILS

DATE 11/16/2018	ARCHIVE NO.
DESIGNER JLA	DRAWING SHEET NO. S205
DRAWN RK	
CHECKED JLA	
PROJECT NO. 18037.A	SHEET 88 OF 119

11/16/2018 3:07:14 PM

C:\Users\JasonR\Documents\S-18037 - Flaming Gorge Ranger Office Addition-2018 JasonR@arwengineers.com.rvt



TYP. FOOTING OVER COMPACTED STRUCTURAL FILL

SCALE : NONE

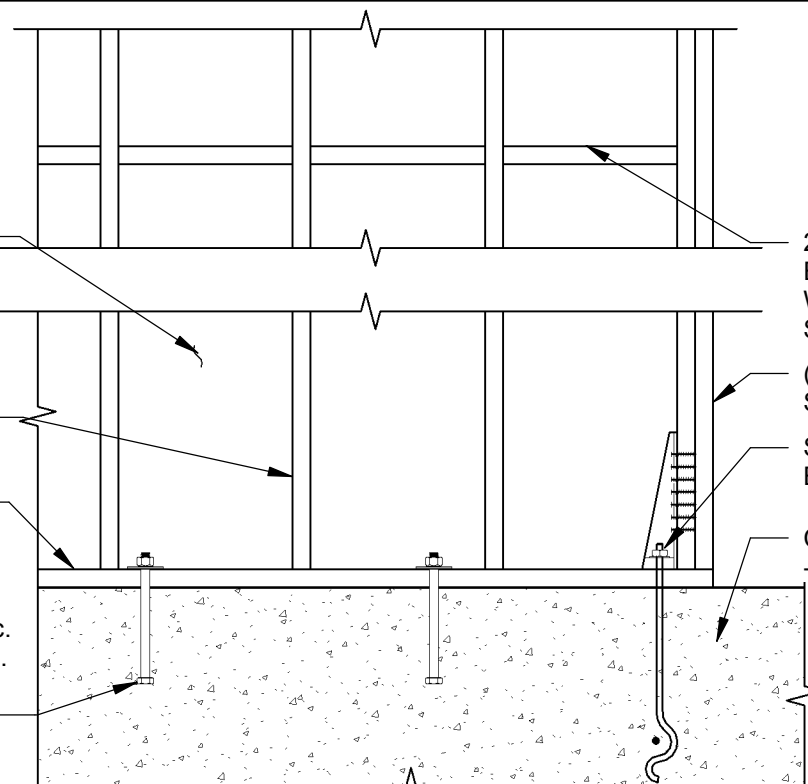
1
S206

APA RATED SHEATHING
@ ALL SHEAR WALLS -
SEE SCHEDULE FOR
PANEL NAILING

STUDS - SEE SHEAR
WALL SCHEDULE &
FRAMING NOTES

SILL PLATE

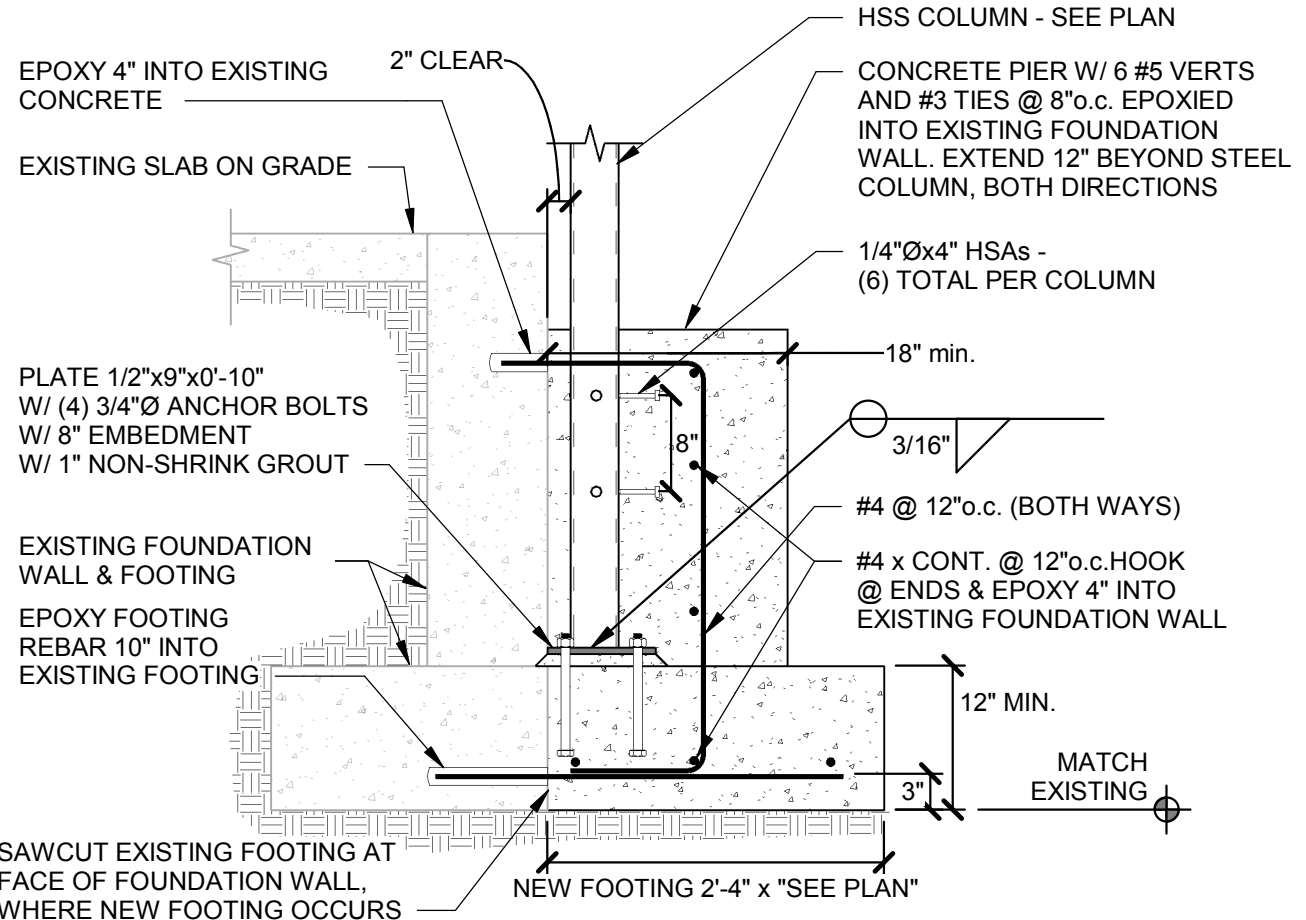
3/4" Ø HEADED A.B.s W/ 8"
MIN. EMBEDMENT @ 32"o.c.
PROVIDE 1/4" x 3" x 0'-3" PL.
WASHERS TYPICAL @
EACH ANCHOR BOLT



TYP. HOLD DOWN DETAIL

SCALE : NONE

3
S206



DETAIL

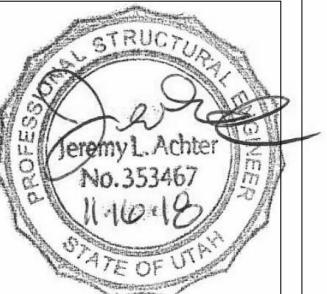
SCALE : NONE

2
S206



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION



4	s/s Regina Freel	
3	11/29/18	
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION

ASHLEY
NATIONAL FOREST

FLAMING GORGE RANGER DISTRICT

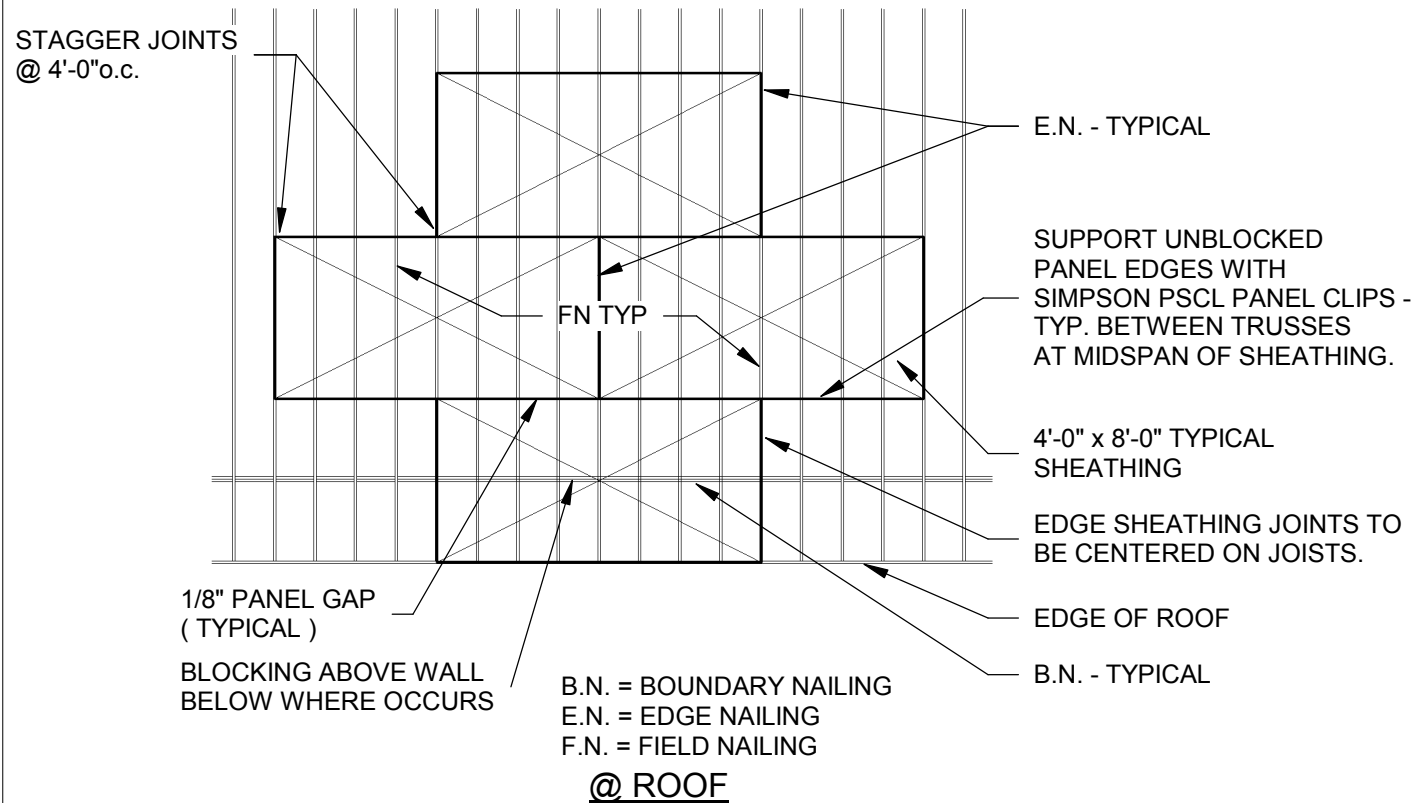
DRAWING TITLE

DETAILS

DATE 11/16/2018	ARCHIVE NO.
DESIGNER JLA	DRAWING SHEET NO. S206
DRAWN RK	
CHECKED JLA	
PROJECT NO. 18037.A	SHEET 89 OF 119

11/16/2018 3:07:15 PM

C:\Users\JasonR\Documents\S-18037 - Flaming Gorge Ranger Office Addition-2018_jasonr@jarwengineers.com.rvt

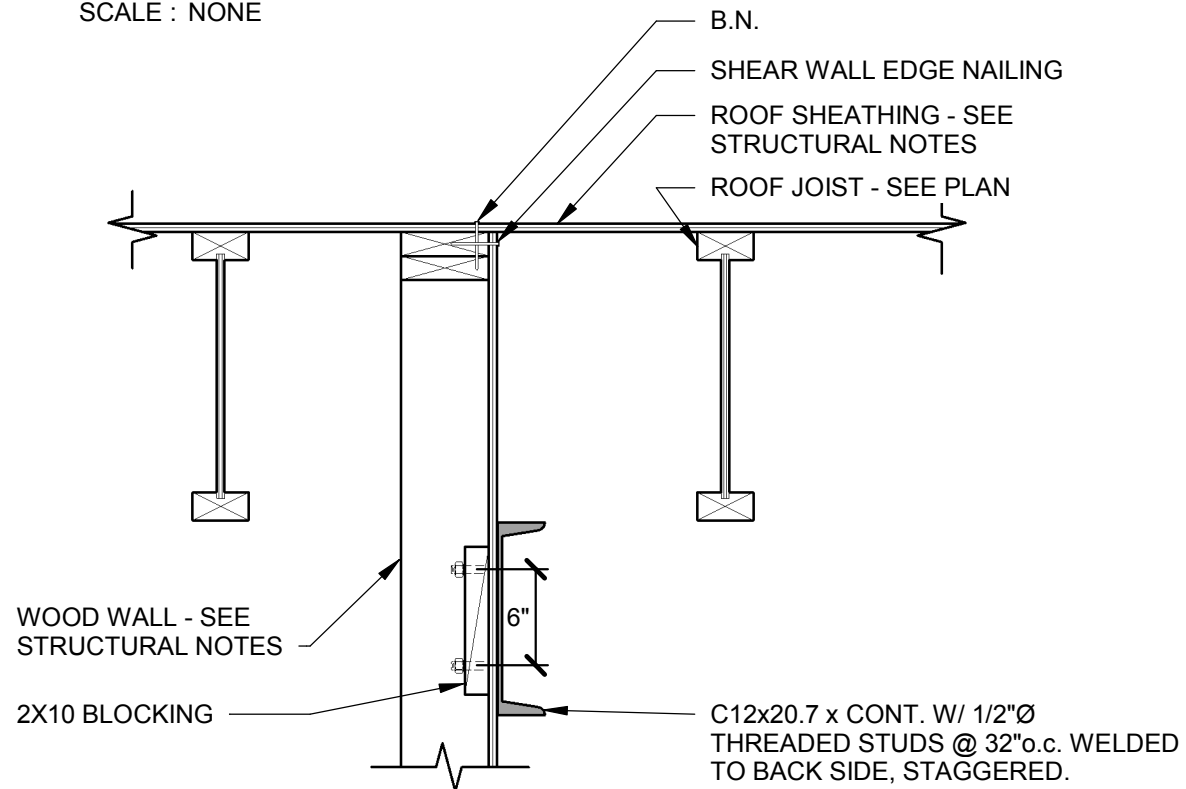


TYPICAL SHEATHING LAYOUT (UNBLOCKED DIAPHRAGM)

SCALE : NONE

1
S207

L

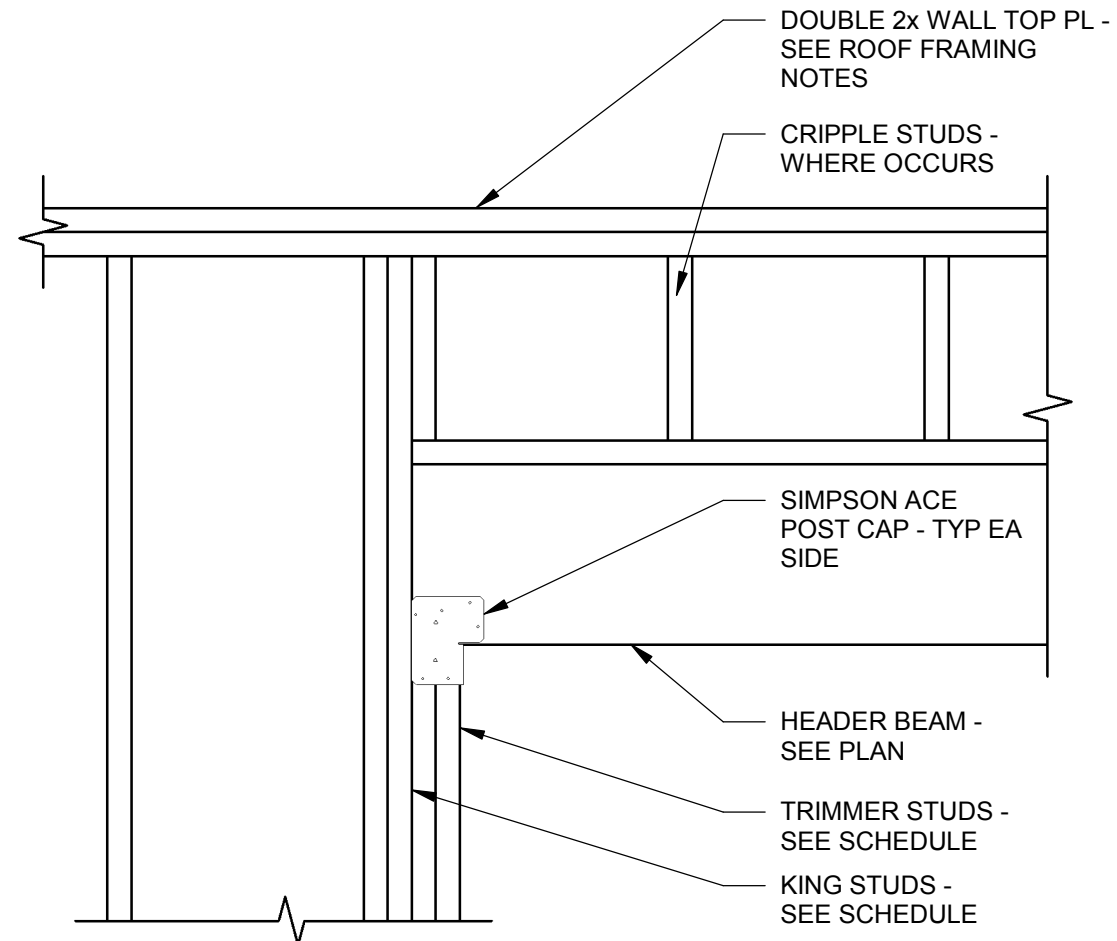


DETAIL

SCALE : NONE

3
S207

L



OPENING SIZE	KING STUDS	TRIMMER STUDS
UP TO 8'-0"	(2) 2x6	(2) 2x6
8'-1" TO 12'-0"	(3) 2x6	(2) 2x6
12'-1" UP TO 16'-0"	(3) 2x6	(3) 2x6

DETAIL

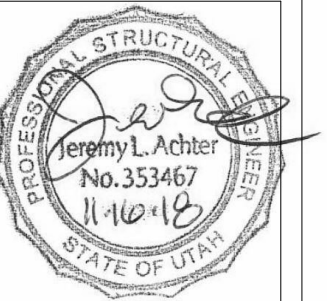
SCALE : NONE

2
S207



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION



4	s/s Regina Fred	
3	11/29/18	
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

**FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION**

**ASHLEY
NATIONAL FOREST**

FLAMING GORGE RANGER DISTRICT

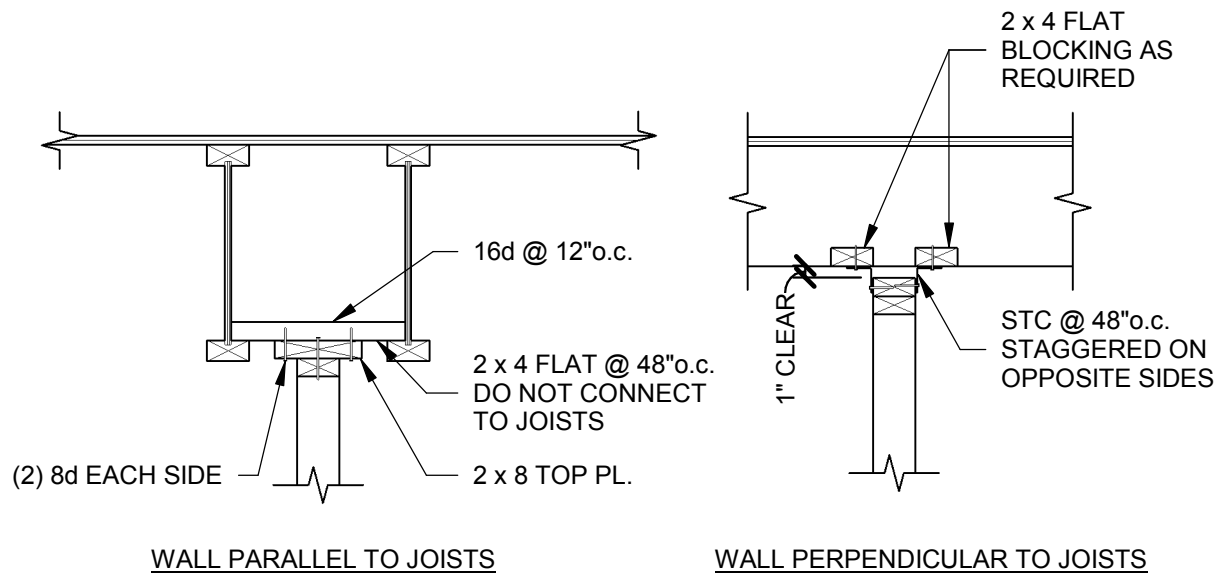
DRAWING TITLE

DETAILS

DATE 11/16/2018	ARCHIVE NO.
DESIGNER JLA	DRAWING SHEET NO. S207
DRAWN RK	
CHECKED JLA	
PROJECT NO. 18037.A	SHEET 90 OF 119

11/16/2018 3:07:15 PM

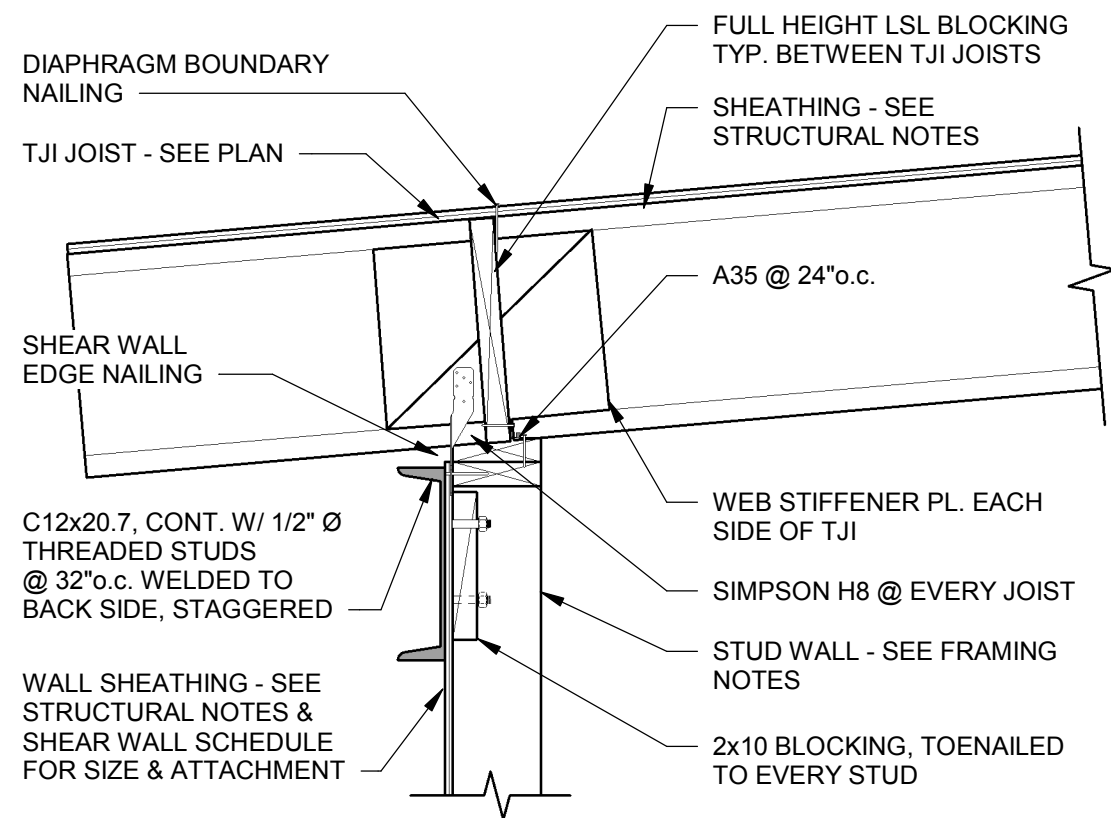
C:\Users\JasonR\Documents\S-18037 - Flaming Gorge Ranger Office Addition-2018 JasonR@jarwengineers.com.rvt



DETAIL

SCALE : NONE

1
S208



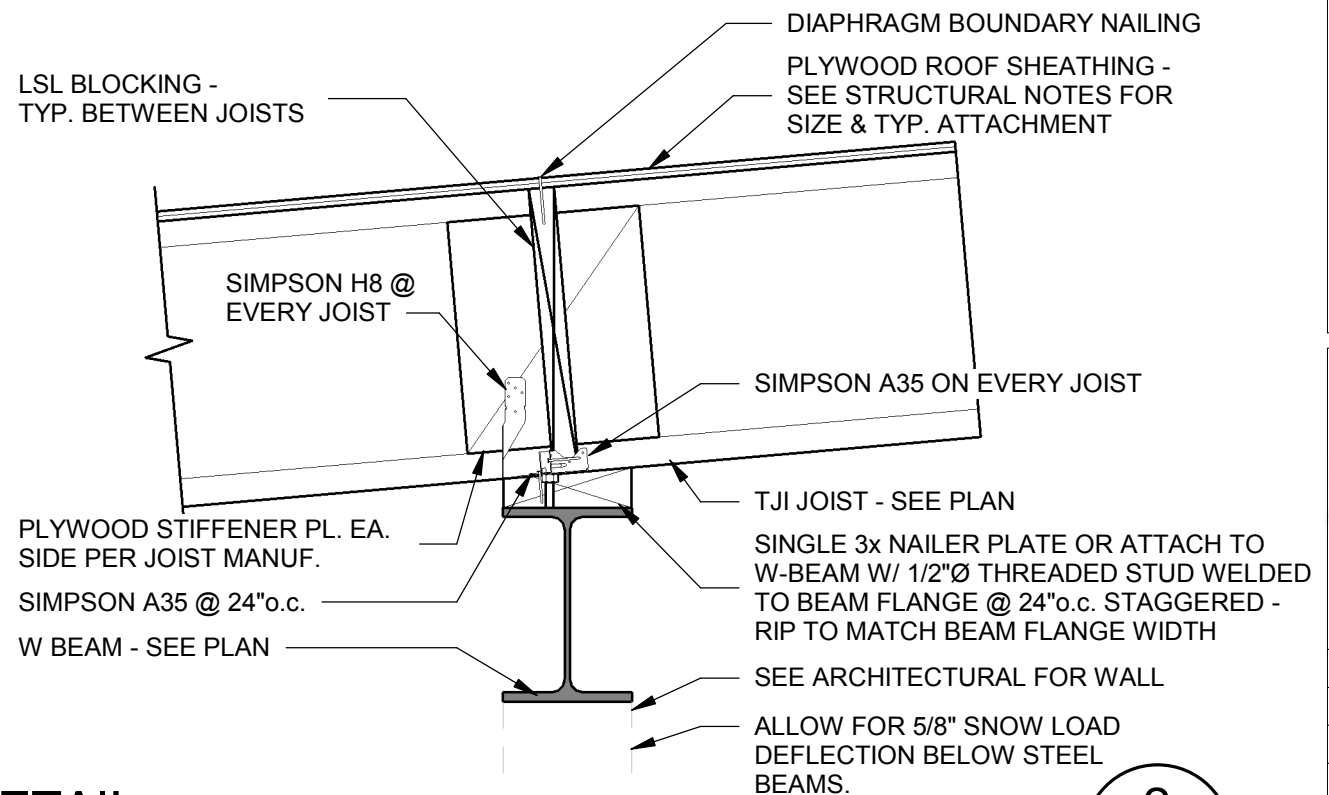
DETAIL

SCALE : NONE

3
S208

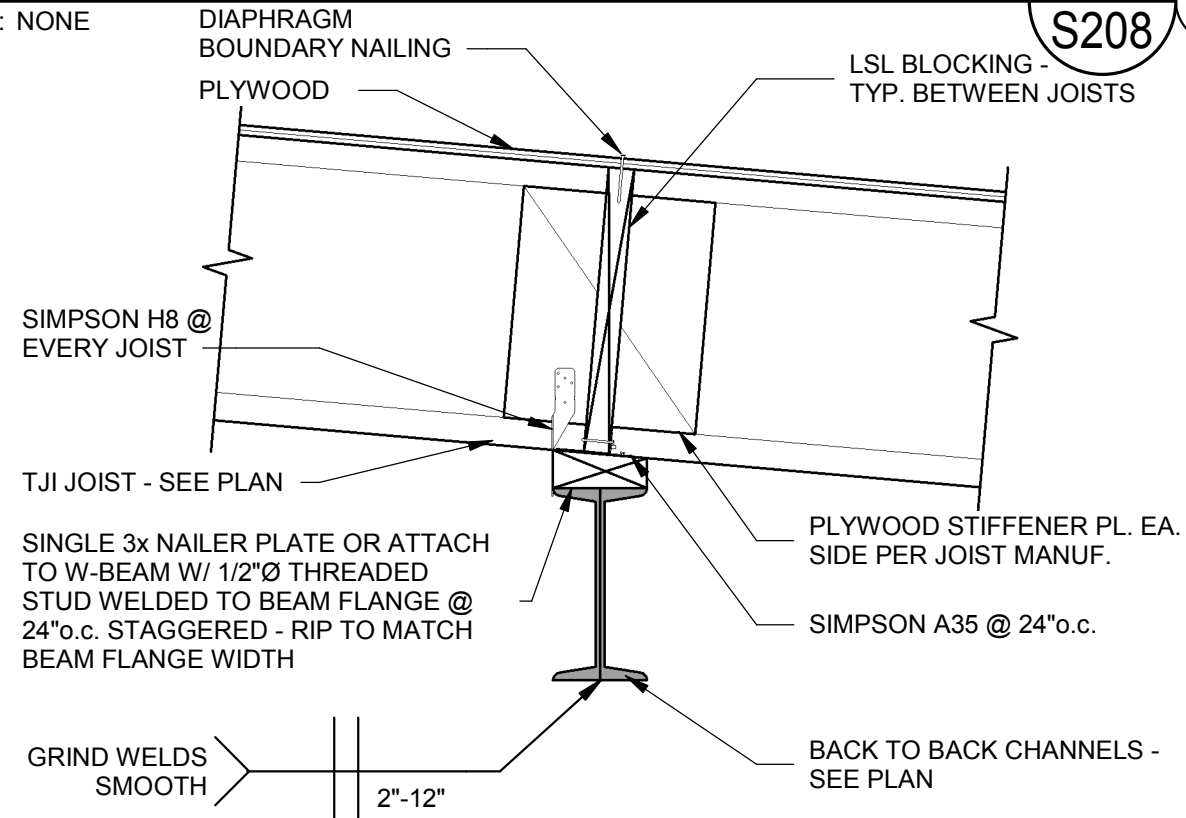
DETAIL

SCALE : NONE



DETAIL

SCALE : NONE



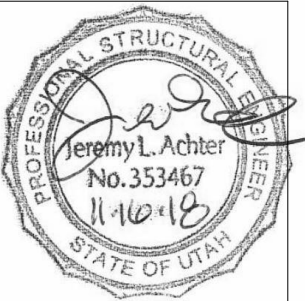
2
S208

L



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION



4	s/s Regina Freel	
3	11/29/18	
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME
**FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION**

**ASHLEY
NATIONAL FOREST**

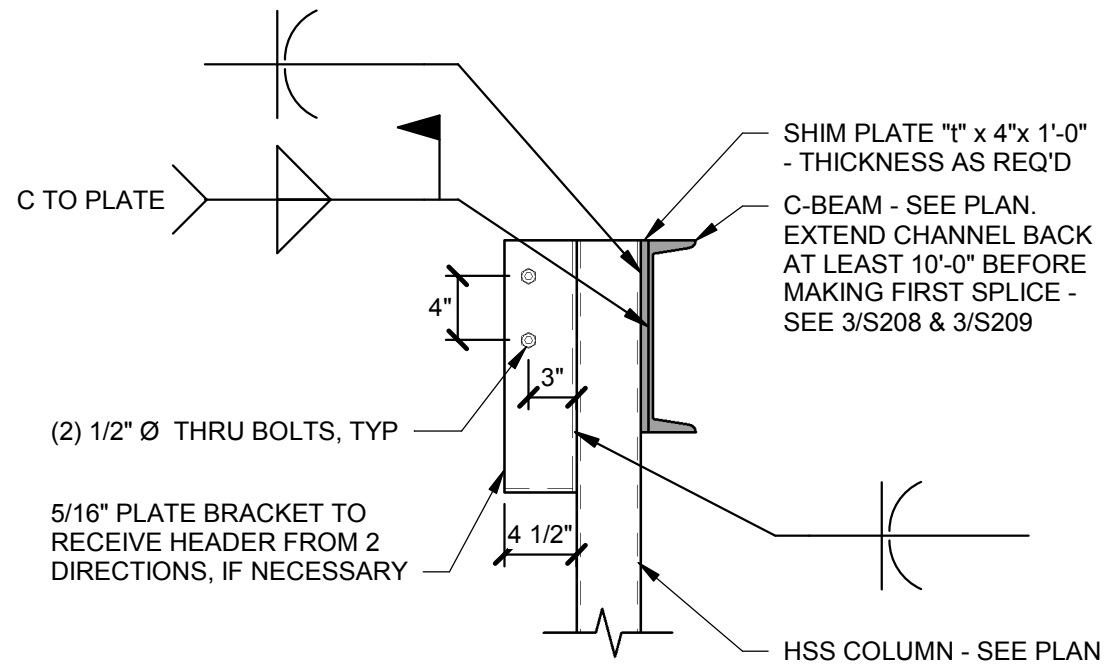
FLAMING GORGE RANGER DISTRICT

DRAWING TITLE
DETAILS

DATE 11/16/2018	ARCHIVE NO.
DESIGNER JLA	DRAWING SHEET NO. S208
DRAWN RK	
CHECKED JLA	
PROJECT NO. 18037.A	SHEET 91 OF 119

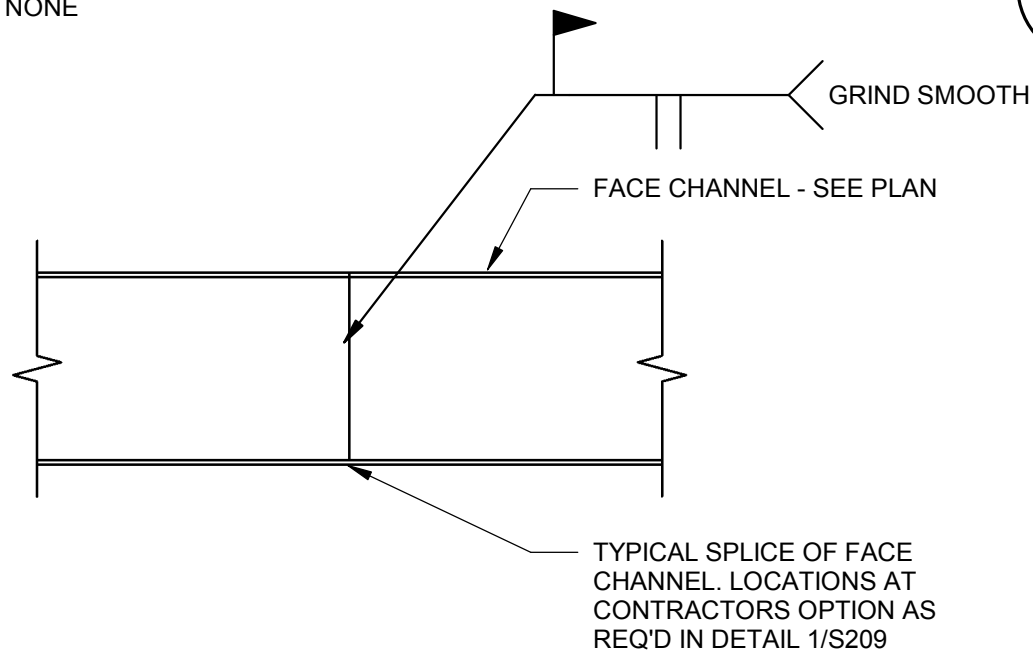
11/16/2018 3:07:16 PM

C:\Users\JasonR\Documents\18037 - Flaming Gorge Ranger Office Addition-2018_JasonR@jarwengineers.com.rvt



DETAIL

SCALE : NONE



DETAIL

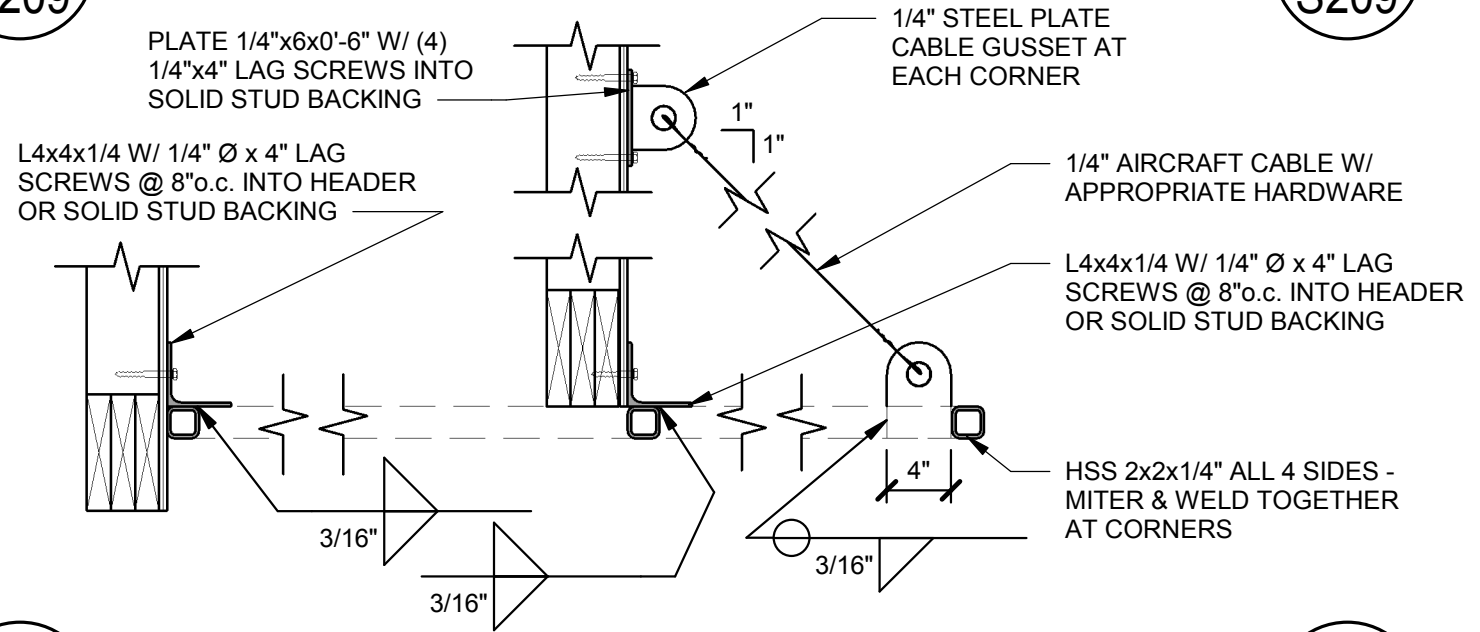
SCALE : NONE

BEAM CONNECTION SCHEDULE							
BEAM DEPTH	SHEAR PLATE INFORMATION			BOLTS W/ STANDARD WASHERS OVER SLOTS		WELD 'A'	COMMENTS
	PL. DIMENSIONS W/ SHORT- SLOTTED HOLES	Lev	Leh	No.	SIZE		
W8 x	PL. 5/16" x 4"	1 1/2"	2"	2	3/4" Ø	1/4"	
<div><p>FACE OF COLUMN / BEAM WEB</p><p>1 1/2"</p><p>1 1/2"</p><p>Leh</p><p>Lev</p><p>3" TYP.</p><p>Lev</p><p>SEE SCHED.</p><p>'A'</p></div> <p>SHEAR PL. - SEE SCHEDULE</p> <p>SHORT-SLOTTED HOLES IN SHEAR PLATE W/ WASHER PER THE STRUCTURAL NOTES</p> <p>W BEAM - SEE PLAN</p>							

1
S209

TYPICAL BEAM CONNECTIONS DETAIL

SCALE : NONE



3
S209

DETAIL

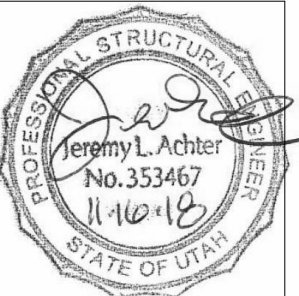
SCALE : NONE

2
S209



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION



4	s/s Regina Fred	
3	11/29/18	
2		
1		
NO.	REVISION / ISSUE	DATE

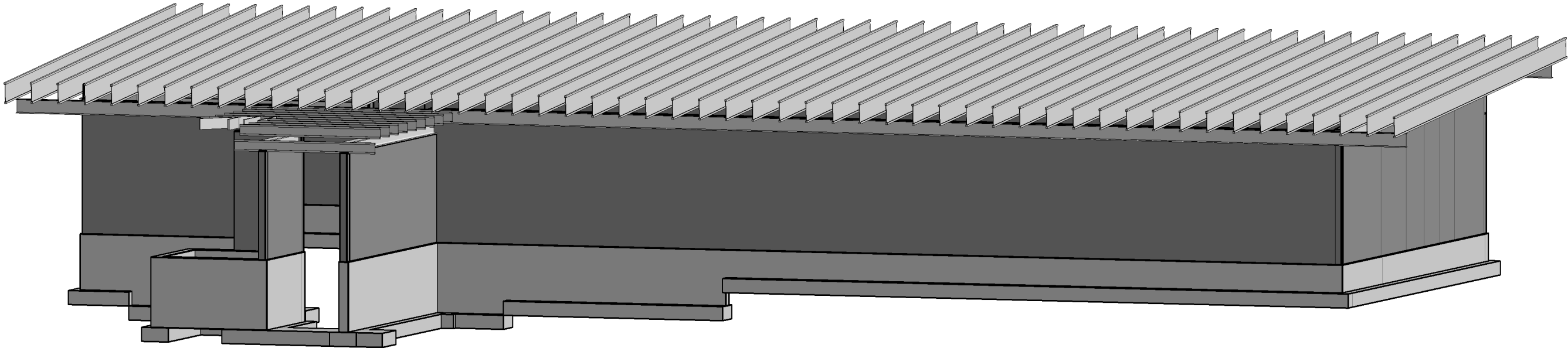
PROJECT NAME
**FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION**

**ASHLEY
NATIONAL FOREST**

FLAMING GORGE RANGER DISTRICT

DRAWING TITLE
DETAILS

DATE 11/16/2018	ARCHIVE NO.
DESIGNER JLA	DRAWING SHEET NO. S209
DRAWN RK	
CHECKED JLA	
PROJECT NO. 18037.A	SHEET 92 OF 119

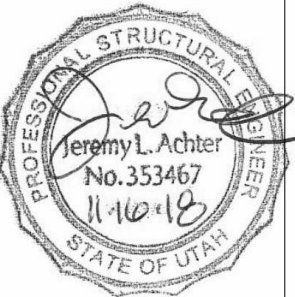


NOTE: THIS VIEW REPRESENTS A SCHEMATIC RENDERING ONLY AND IS NOT INTENDED TO CONVEY CONSTRUCTION INFORMATION. ALL CONSTRUCTION SHALL COMPLY WITH SPECIFIC NOTES AND DETAILS WITHIN THE STRUCTURAL DRAWINGS.



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION



4	s/s Regina Fred	
3	11/29/18	
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER DISTRICT
OFFICE ADDITION

ASHLEY
NATIONAL FOREST

FLAMING GORGE RANGER DISTRICT
























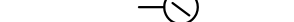

















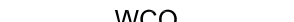











DRAWING TITLE

SCHEMATIC
REFERENCE

DATE 11/16/2018	ARCHIVE NO.
DESIGNER JLA	DRAWING SHEET NO. S401
DRAWN RK	
CHECKED JLA	
PROJECT NO. 18037.A	SHEET 93 OF 119

CLH18511

11/14/18 16:20 JAMESC F:\PROJECTS\18511_FS FLAMING GORGE UPDATES\DRAWING\001_18511.DWG

PLUMBING LEGEND	
SYMBOL	DESCRIPTION
 DCW	DOMESTIC COLD WATER PIPING (DCW)
 DHW	DOMESTIC HOT WATER PIPING (DHW)
 V	VENT PIPING
 LP	PROPANE GAS
 SS	SANITARY SEWER PIPING
 CD	CONDENSATE DRAIN
 BF	BACKFLOW PREVENTOR
	
	WATER HAMMER ARRESTOR
	CHECK VALVE
	STRAINER WITH BLOWDOWN
	BALL VALVE
	PRESSURE REDUCING VALVE (PRV)
	CONCENTRIC REDUCER
	FLOOR CLEANOUT
	BLIND FLANGE OR CAP
	PIPING TEE DOWN
	PIPING UP
	PIPING TEE DOWN
	UNION OR FLANGE
	THERMOMETER
	PRESSURE GAUGE
	FLOOR DRAIN OR FLOOR SINK
	ROOF DRAIN
	PUMP
	WALL CLEANOUT
	HOSE BIBB
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	

PLUMBING GENERAL NOTES

- 1) THE CONTRACTOR SHALL NOT SHUT-OFF (PUT OUT OF SERVICE) ANY SYSTEM'S SERVICES WITHOUT FIRST COORDINATING ALL DOWNTIME WITH THE OWNER'S PERSONNEL. UTILITY INTERRUPTIONS REQUIRED TO ACCOMMODATE NEW CONNECTIONS MAY REQUIRE ODD HOUR WORK.
- 2) PIPE ROUTING IS APPROXIMATE, DIAGRAMMATIC, AND IS NOT TO BE SCALED. WHERE ALTERNATE ROUTING, OFFSETS AND TRANSITIONS ARE REQUIRED FOR COORDINATION OF ALL WORK, THE CONTRACTOR SHALL MAKE CHANGES WITHOUT ADDITIONAL COSTS.
- 3) THE CONTRACTOR SHALL CLOSELY COORDINATE NEW PLUMBING WITH ALL ELECTRICAL, MECHANICAL, ARCHITECTURAL, AND STRUCTURAL MEMBERS.
- 4) ALL PIPING AND PLUMBING SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE INTERNATIONAL PLUMBING CODE, NATIONAL FIRE CODE, AND INTERNATIONAL FUEL GAS CODE.
- 5) WHEN CONNECTING NEW PIPING TO EXISTING, CONTRACTOR TO MATCH EXISTING PIPING MATERIAL UNLESS OTHERWISE INDICATED.
- 6) PRIME & PAINT ALL EXPOSED PIPES AND PIPE SUPPORTS.
- 7) ALL EXTERIOR SUPPORTS, BRACES, ANCHORS, ETC. W/ OPEN ENDS TO BE CAPPED & SEALED WEATHERTIGHT.
- 8) ROOF FLASHING MATERIALS: UNLESS NOTED ELSEWHERE, PROVIDE ROOF FLASHING AS REQUIRED / RECOMMENDED BY ROOFING AND/OR PIPING MANUFACTURERS.
- 9) PROVIDE ACCESS PANELS FOR SERVICING OF WALL HYDRANT, TRAP PRIMERS, AND WATER HAMMER ARRESTORS.

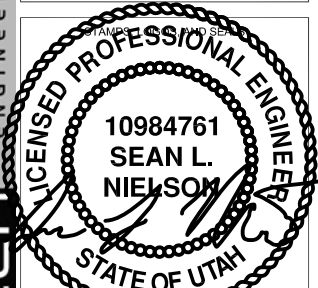
Cass, Lowe & Hart, Inc. 2484 Washington Blvd.
Suite 510 Ogden, Utah 84401
801.399.5821 www.clhae.com

ARCHITECTS
ENGINEERS



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION



4	s/s Regina Fred	
3	11/29/18	
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER
DISTRICT OFFICE
ADDITION

ASHLEY NATIONAL
FOREST

FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

PLUMBING LEGEND

DATE 11/16/2018	ARCHIVE NO.
DESIGNER SN	DRAWING SHEET NO. P001
DRAWN GM, JAC	
CHECKED SN	
PROJECT NO. 644	SHEET 94 OF 119

CLH18511


11/14/18 16:20 JAMESC F:\PROJECTS\18511_FS FLAMING GORGE UPDATES\DRAWING\02_1851.DWG

PIPING MATERIAL SCHEDULE			
SYSTEM	MATERIAL	JOINTS	REMARKS
DOMESTIC HOT AND COLD WATER (ABOVE GRADE)	TYPE 'L' COPPER	3" & SMALLER, SOLDERED	
DOMESTIC COLD WATER (BELOW GRADE)	HDPE	FUSION WELDED	
SANITARY SEWER	PVC	SOLVENT CEMENT	SOLID WALL
SANITARY VENT	PVC	SOLVENT CEMENT	
CONDENSATE DRAIN	PVC	SOLVENT CEMENT	

WATER HAMMER ARRESTER SCHEDULE						
MARK	MANUF. & MODEL	FIXTURE UNITS	PIPE SIZE (IN)	HEIGHT (IN)	DIA. (IN)	REMARKS
<u>WHA-A</u>	J.R. SMITH 5005	1-11	3/4"	2.62"	3.25"	PROVIDE ACCESS
<u>WHA-B</u>	J.R. SMITH 5010	12-32	1"	2.97"	3.25"	PROVIDE ACCESS
<u>WHA-C</u>	J.R. SMITH 5020	33-60	1"	3.59"	3.25"	PROVIDE ACCESS
NOTE: ALL WATER HAMMER ARRESTERS LISTED IN SCHEDULE MAY NOT APPEAR ON DRAWINGS.						

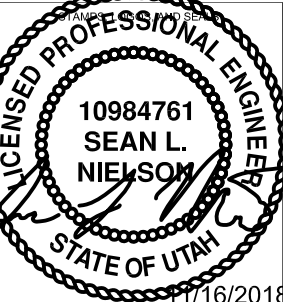
Cass, Lowe & Hart, Inc. 2484 Washington Blvd.
Suite 510 Ogden, Utah 84401
801.399.5821 www.clhae.com

CLH ARCHITECTS
ENGINEERS



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION



10984761
SEAN L. NIELSON
STATE OF UTAH

4	s/s Regina Fred	
3	11/29/18	
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER
DISTRICT OFFICE
ADDITION

ASHLEY NATIONAL
FOREST

FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

PLUMBING NOTES AND
SCHEDULES

DATE 11/16/2018	ARCHIVE NO.
DESIGNER SN	DRAWING SHEET NO. P002
DRAWN GM, JAC	
CHECKED SN	
PROJECT NO. 644	SHEET 95 OF 119

CLH18511

11/14/18 16:22 JAMESC F:\PROJECTS\18511_FS FLAMING GORGE UPDATES\DRAWING\03_18511.DWG

GAS WATER HEATER SCHEDULE												
MARK	MANUFACTURER & MODEL	SYSTEM SERVED	TANK CAPACITY (GAL)	INPUT (BTU/HR)	OUTPUT (BTU/HR)	RECOVERY @ 90°F RISE (GPH)	VOLTS/ PHASE	GAS CONN (IN)	MAX. GAS PRESSURE ("WC)	WEIGHT (LBS)	DIMENSIONS HxWxD (IN)	NOTES
<div><div>WH</div><div>1</div></div>	AO SMITH GPDT-50 (LP)	RESTROOMS	50	45,000	-	50	120 / 1	1/2	14"	576	68 x 22	2" CONCENTRIC VENT, 2 GAL. EXPANSION TANK.


PIPING AND EQUIPMENT INSULATION SCHEDULE						
SYMBOL	SYSTEM	INDOOR		OUTDOOR		NOTES
		MATERIAL	JACKET	MATERIAL	JACKET	
DCW DHW	DOMESTIC WATER	FLEXIBLE ELASTOMERIC	-	FLEXIBLE ELASTOMERIC	-	
L & S	REFRIGERANT LINES	FLEXIBLE ELASTOMERIC	-	FLEXIBLE ELASTOMERIC	PAINT	

MINIMUM PIPE INSULATION THICKNESS TABLE								
FLUID DESIGN OPERATING TEMP RANGE (°F)	VAPOR BARRIER RATING (PERMS)	INSULATION CONDUCTIVITY		NOMINAL PIPE OR TUBE SIZE (in.)				
		CONDUCTIVITY Btu·in/(h·ft²·°F)	MEAN RATING TEMP. (°F)	<1"	1" TO <1 1/2"	1 1/2" TO <4"	4" TO <8"	≥ 8"
105-140	-	0.22-0.28	100	1.0	1.0	1.5	1.5	1.5
40-60	<0.05	0.21-0.27	75	0.5	0.5	1.0	1.0	1.0
<40	<0.02	0.20-0.26	50	0.5	1.0	1.0	1.0	1.5

Case, Lowe & Hart, Inc. 2484 Washington Blvd.
Suite 510 Ogden, Utah 84401
801.399.5821
www.clhae.com

ARCHITECTS
ENGINEERS
CLH

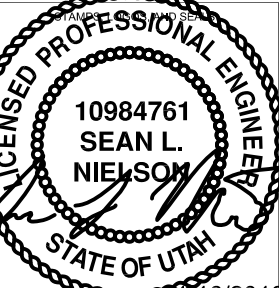
USDA



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION

10984761
SEAN L. NIELSON



STATE OF UTAH

4	s/s Regina Fred	
3	11/29/18	
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER
DISTRICT OFFICE
ADDITION

ASHLEY NATIONAL
FOREST

FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

PLUMBING SCHEDULES

DATE 11/16/2018	ARCHIVE NO.
DESIGNER SN	DRAWING SHEET NO. <div>P003</div>
DRAWN GM, JAC	
CHECKED SN	
PROJECT NO. 644	SHEET 96 OF 119

CLH18511

11/14/18 16:21 JAMESC F:\PROJECTS\18511_FS FLAMING GORGE UPDATES\DRAWING\004_18511.DWG

PLUMBING FIXTURE SCHEDULE								
MARK	DESCRIPTION	MANUFACTURER & MODEL	GPM	CONNECTIONS				REMARKS
				CW	HW	WASTE	VENT	
<u>BFP-1</u>	BACKFLOW PREVENTER	WATTS ULF007M1QTS	--	1 1/2"	--	--	--	DOUBLE CHECK VALVE ASSEMBLY, LEAD FREE, STRAINER, UNIONS, QUARTER TURN BALL VALVES
<u>EW-C-1</u>	DRINKING FOUNTAIN REFRIGERATED	ELKAY EZSTLG8WS	8 GPH	3/8"	--	1 1/4"	--	ADA, WALL HUNG, BI-LEVEL, CONTROLS ON FRONT & SIDES, 115V/1"Ø HARD WIRED ELECTRICAL CONNECTION, INCLUDE EZH2O BOTTLE FILLING STATION, ON LOWER BOWL.
<u>FCO</u>	FLOOR CLEANOUT	J. R. SMITH 4020 SERIES	--	--	--			MATCH CLEANOUT SIZE TO PIPE IT SERVES, NICKEL TOP.
<u>FD-1</u>	ROUND HEAD FLOOR DRAIN	J. R. SMITH 2005Y-A-NB	--	--	--	2"	1 1/2"	ROUND HEAD, NICKEL BRONZE STRAINER, PRIMER CONNECTION WHERE APPLICABLE.
<u>FD-2</u>	SQUARE HEAD FLOOR DRAIN	J. R. SMITH 2005Y-B-NB	--	--	--	2"	1 1/2"	SQUARE HEAD, NICKEL BRONZE STRAINER, PRIMER CONNECTION WHERE APPLICABLE.
<u>FWH-1</u>	BOX TYPE FREEZELESS WALL HYDRANT	WOODFORD B67 SERIES	--	3/4"	--	--	--	AUTOMATIC DRAINING WITH BACKFLOW PROTECTED, LOCKABLE BOX, MOUNT 30" ABOVE FINISH GRADE ROUGH BRONZE FINISH
<u>LAV-1</u>	DROP IN COUNTER MOUNT LAVATORY	AMERICAN STANDARD 0476.028 SINK 6114.116.002 FAUCET	0.5	3/8"	3/8"	1 1/2"	1 1/4"	ADA WRAP ON PIPES.
<u>MS-1</u>	MOP SINK W/ FAUCET	AMERICAN STANDARD 7741.000 SINK 8344.012 FAUCET	--	1/2"	1/2"	2"	1 1/2"	PROVIDE SINK RIM GUARD, FAUCET HAS BACKFLOW PREVENTOR, WALL BRACE, 3/4" HOSE END THREADS, RUBBER HOSE, AND WALL HOOK.
<u>MV-1</u>	MIXING VALVE	ACCORN ST70	--	3/8"	3/8"	--	--	
<u>S-1</u>	KITCHEN SINK w/ DISPOSAL	AMERICAN STANDARD 4147.001.075 ELKAY ELUHAD311855PD INSINKERATOR BADGER 5XP	1.5	1/2"	1/2"	1 1/2"	1 1/2"	UNDERMOUNT DOUBLE BOWL STAINLESS STEEL, SINGLE HANDLE, SINGLE HOLE FAUCET, LESS ESCUTCHEN PLATE & SPRAYER, FOOD DISPOSAL.
<u>SH-1</u>	SHOWER ADA W/ HAND SHOWER	AMERICAN STANDARD #1662-601	1.5	1/2"	1/2"	2"	--	AMERICAN STANDARD 1662.601F15 HANDSHOWER ON GRAB BAR, PRESSURE BALANCING MIXING VALVE, BRASS DRAIN.
<u>TP-1</u>	TRAP PRIMER CLOSET PRIMER	PRECISION PLUMBING PRODUCTS WCP-1	--	5/8"	--	--	--	
<u>UR-1</u>	WALL HUNG URINAL	AMERICAN STANDARD #6590.001 SLOAN #8186-0.125-OR	0.125 GPF	3/4"	--	2"	1 1/2"	BATTERY POWERED SENSOR VALVE w/OVERRIDE BUTTON
<u>WB-1</u>	WATER BOX	SIOUX CHIEF 696-1010MF	--	1/2"	--	--	--	ICE MAKER OUTLET BOX, PROVIDE STAINLESS STEEL HOSE.
<u>WC-1</u>	WATER CLOSET	AMERICAN STANDARD 211CA.104	1.28 GPF	1/2"	--	3"	SEE PLAN	FLOOR MOUNTED, ELONGATED HET TOILET, OPEN FRONT SEAT, HANDLE ON WIDE SIDE.
<u>WC-2</u>	WATER CLOSET	AMERICAN STANDARD 211AA.104	1.28 GPF	1/2"	--	3"	SEE PLAN	FLOOR MOUNTED, ELONGATED HET TOILET, OPEN FRONT SEAT, HANDLE ON WIDE SIDE, ADA HEIGHT.
<u>WCO</u>	WALL CLEANOUT	J. R. SMITH 4472T	--	--	--	(LINE SIZE)	--	PROVIDE W/ WALL ACCESS COVER

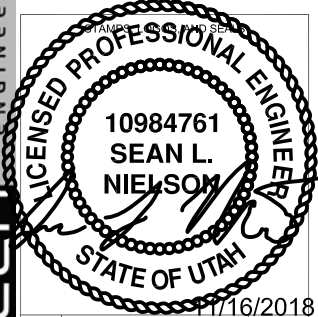
Cuse, Lowe & Hart, Inc. 2484 Washington Blvd.
Suite 510 Ogden, Utah 84401
801.399.5821
www.clhae.com

CLH ARCHITECTS
ENGINEERS



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION



4	s/s Regina Freed	
3	11/29/18	
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

**FLAMING GORGE
RANGER
DISTRICT OFFICE
ADDITION**

**ASHLEY NATIONAL
FOREST**

FLAMING GORGE RANGER DISTRICT

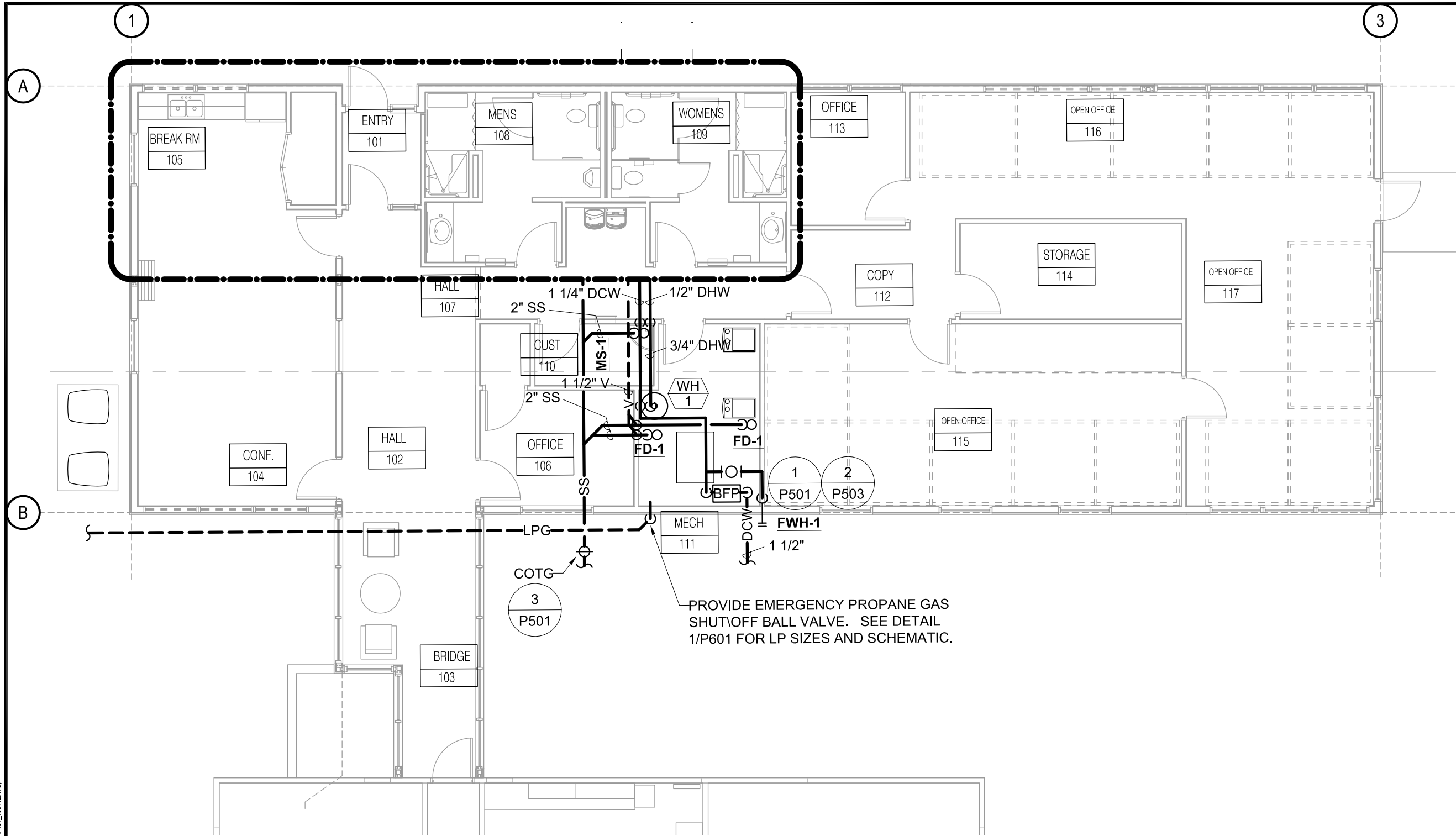
DRAWING TITLE

PLUMBING SCHEDULES

DATE 11/16/2018	ARCHIVE NO.
DESIGNER SN	DRAWING SHEET NO. P004
DRAWN GM, JAC	
CHECKED SN	
PROJECT NO. 644	SHEET 97 OF 119

CLH18511

11/14/18 1622 JAMESC F:\PROJECTS\18511_FS FLAMING GORGE UPDATES\DRAWING\101_18511.DWG



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



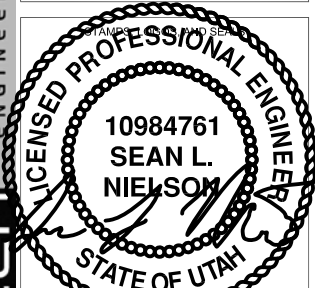
Case, Lowe & Hart, Inc. 2484 Washington Blvd.
Suite 510 Ogden, Utah 84401
801.399.5821
www.clhae.com

ARCHITECTS
ENGINEERS
CLH



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION



4	s/s Regina Fred	
3	11/29/18	
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

**FLAMING GORGE
RANGER
DISTRICT OFFICE
ADDITION**

**ASHLEY NATIONAL
FOREST**

FLAMING GORGE RANGER DISTRICT

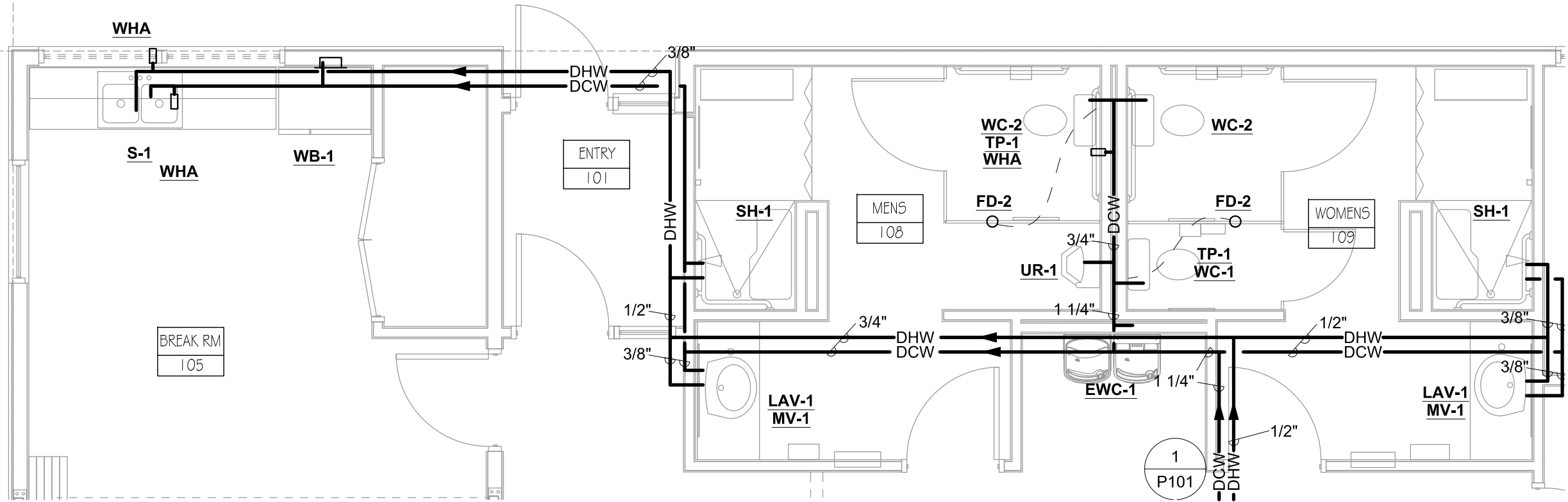
DRAWING TITLE

PLUMBING PLAN

DATE 11/16/2018	ARCHIVE NO.
DESIGNER SN	DRAWING SHEET NO. P101
DRAWN GM, JAC	
CHECKED SN	
PROJECT NO. 644	SHEET 98 OF 119

CLH18511

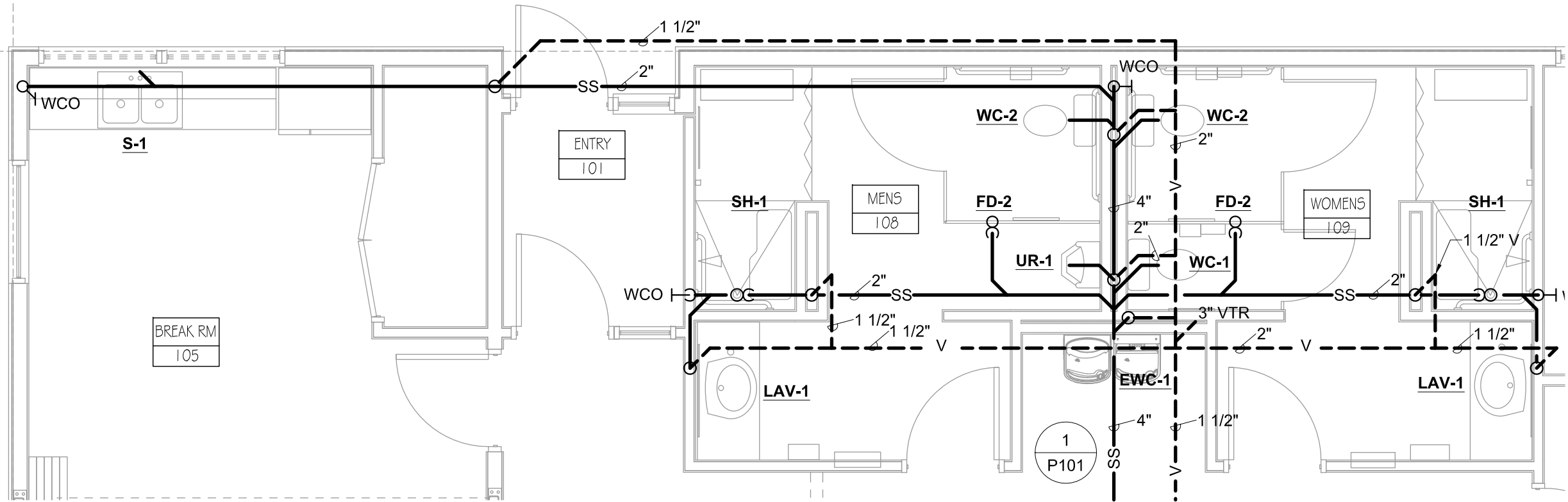
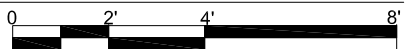
11/14/18 16:21 JAMESC F:\PROJECTS\18511_FS FLAMING GORGE UPDATES\DRAWING\401_18511.DWG



1

PLUMBING PLAN

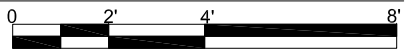
SCALE: 1/4" = 1' - 0"



2

WASTE AND VENT PLAN

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



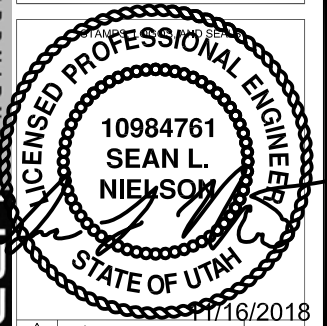
Case, Lowe & Hart, Inc. 2484 Washington Blvd.
Suite 510 Ogden, Utah 84401
801.399.5821
www.clhae.com

ARCHITECTS
ENGINEERS
CLH



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION



4	s/s Regina Fred	
3	11/29/18	
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER
DISTRICT OFFICE
ADDITION

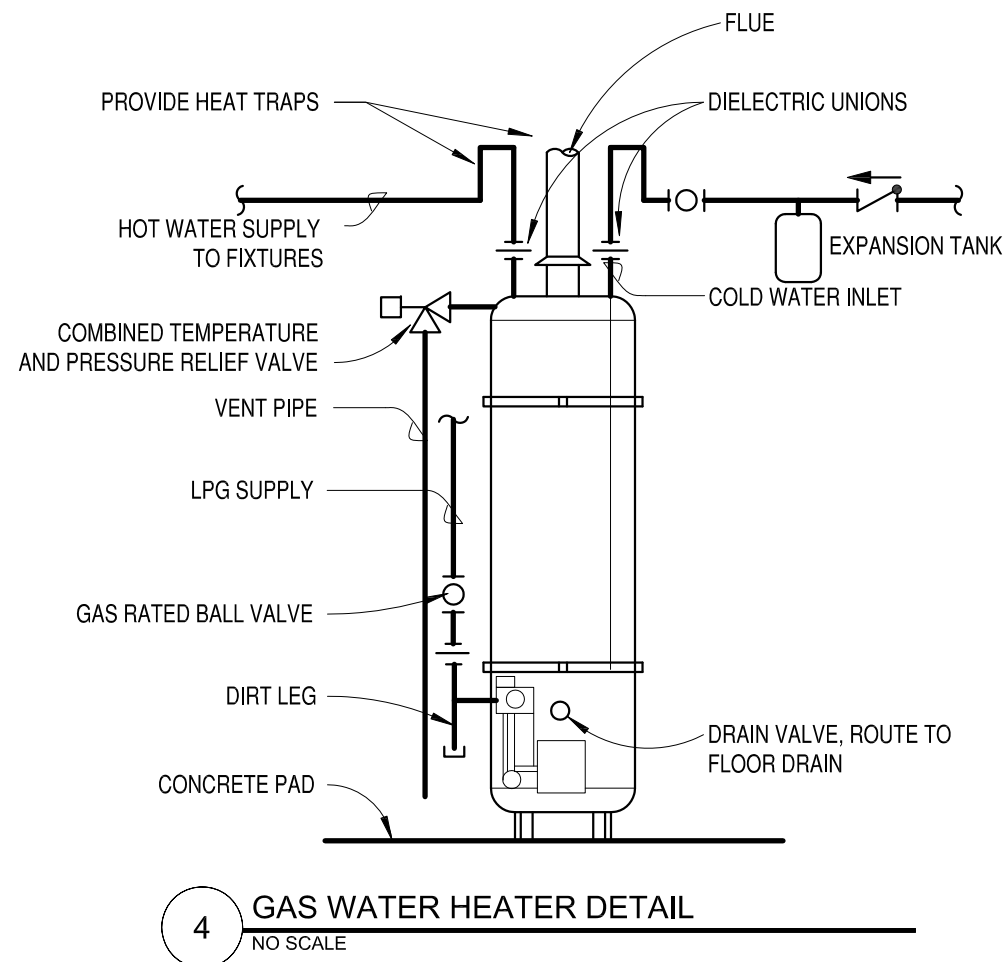
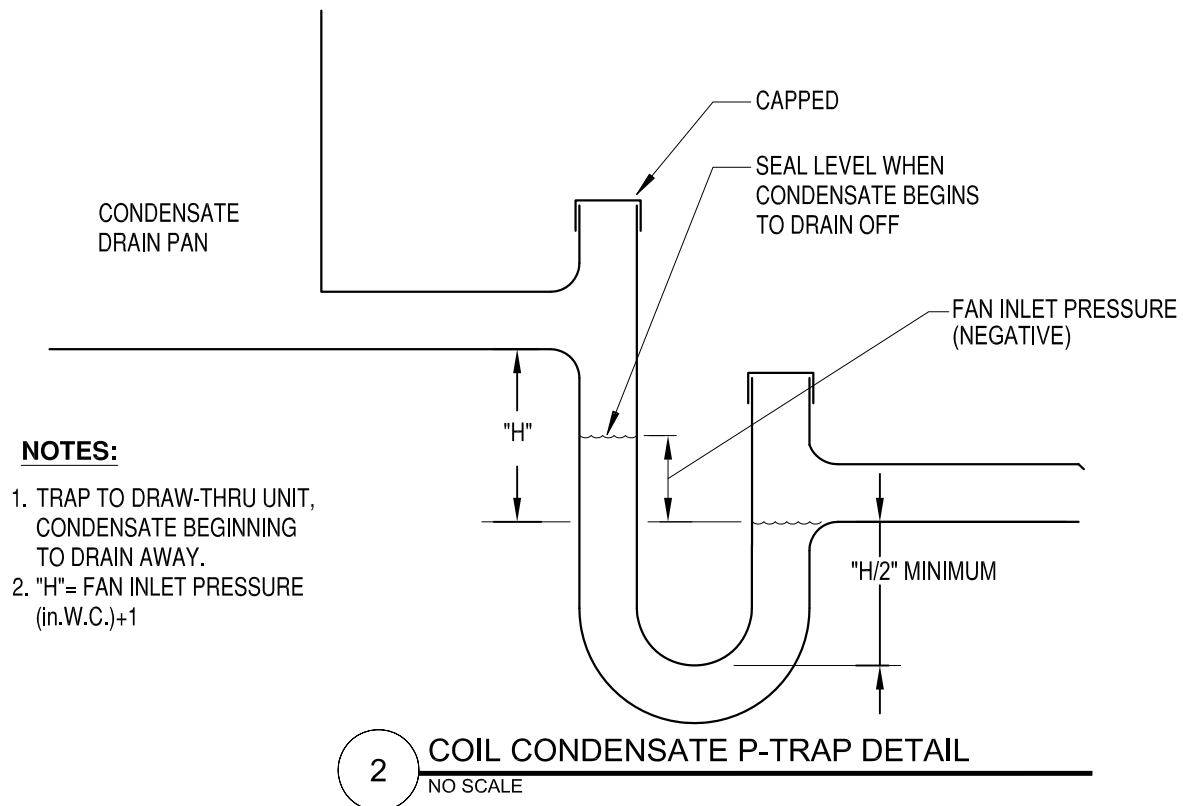
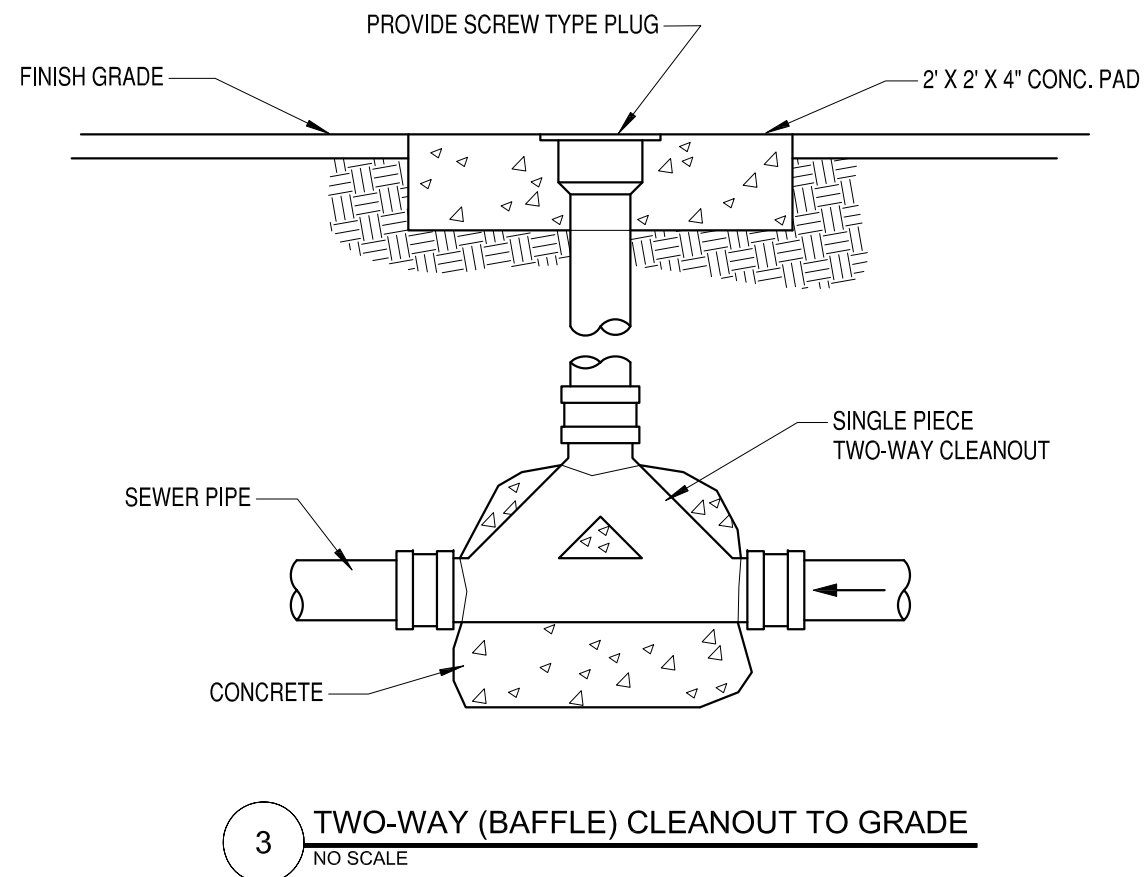
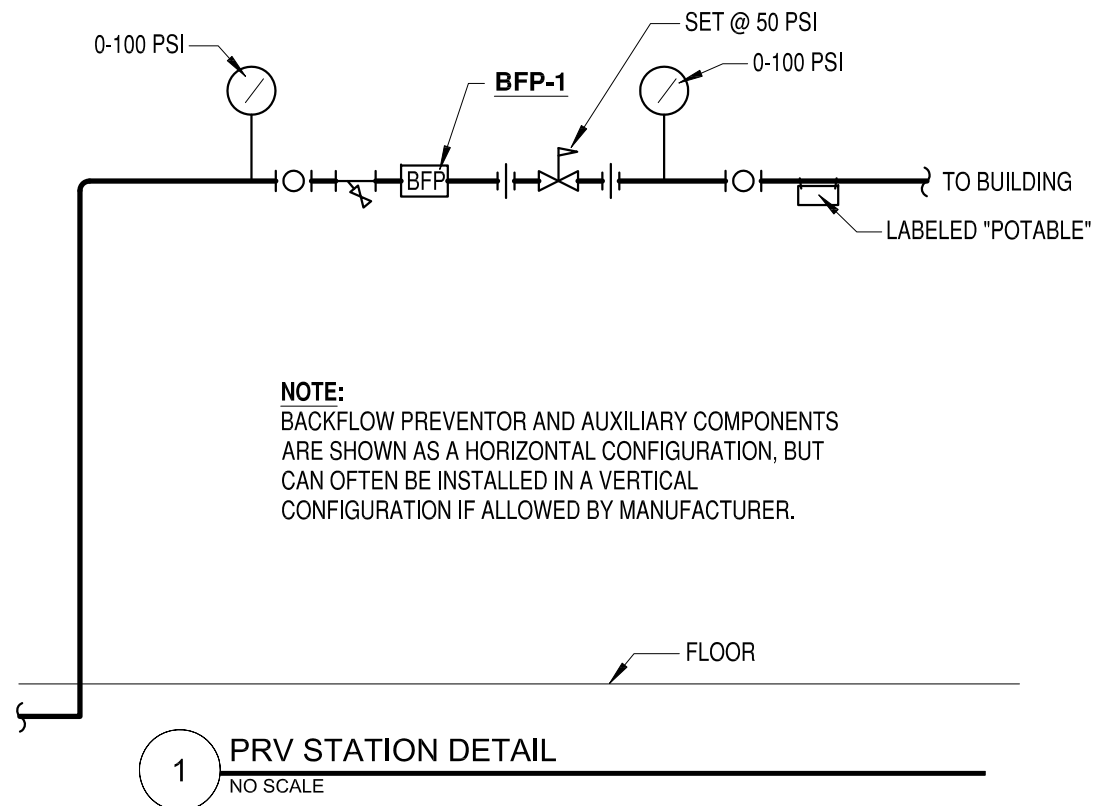
ASHLEY NATIONAL
FOREST

FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

ENLARGED PLUMBING
PLANS

DATE 11/16/2018	ARCHIVE NO.
DESIGNER SN	DRAWING SHEET NO. P401
DRAWN GM, JAC	
CHECKED SN	
PROJECT NO. 644	SHEET 99 OF 119

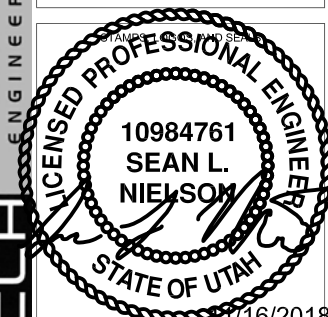


Case, Lowe & Hart, Inc. 2484 Washington Blvd.
Suite 510 Ogden, Utah 84401
801.399.5821
www.clhae.com



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION



4	s/s Regina Fred	
3	11/29/18	
2		
1		
NO.	REVISION / ISSUE	DATE

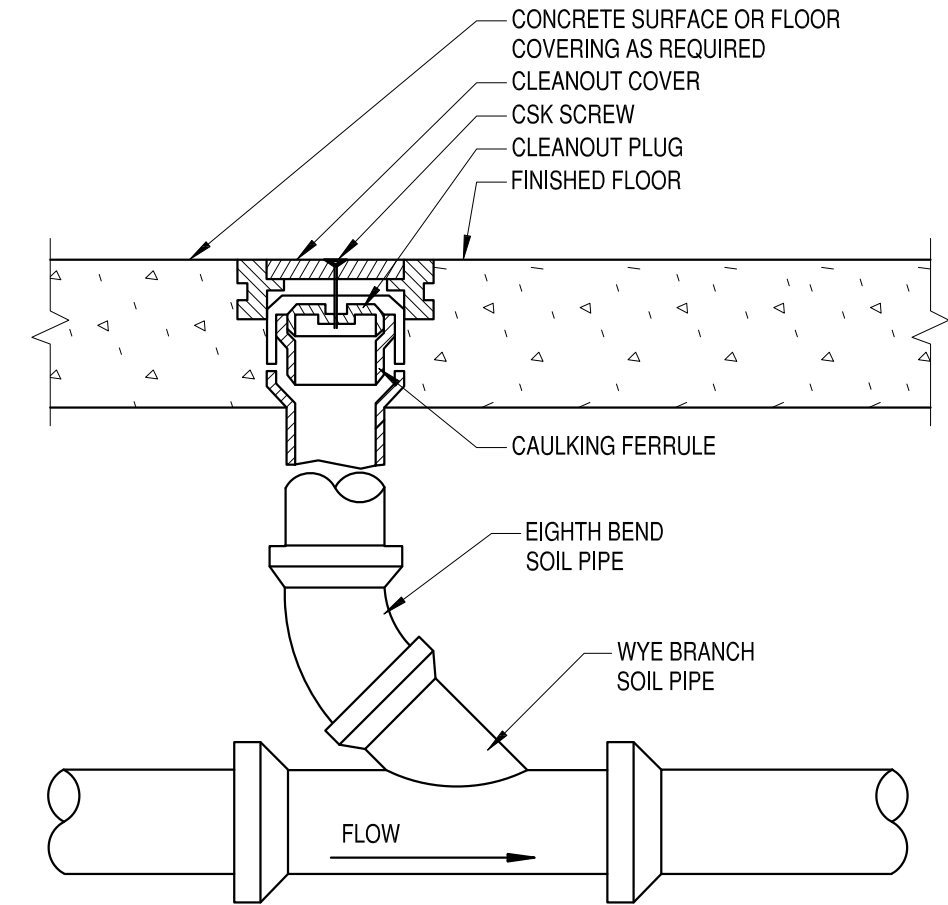
PROJECT NAME
**FLAMING GORGE
RANGER
DISTRICT OFFICE
ADDITION**

**ASHLEY NATIONAL
FOREST**

FLAMING GORGE RANGER DISTRICT

DRAWING TITLE
PLUMBING DETAILS

DATE 11/16/2018	ARCHIVE NO.
DESIGNER SN	DRAWING SHEET NO. P501
DRAWN GM, JAC	
CHECKED SN	
PROJECT NO. 644	SHEET 100 OF 119



1 TYPICAL FLOOR CLEANOUT
NO SCALE

Case, Lowe & Hart, Inc. 2484 Washington Blvd.
Suite 510 Ogden, Utah 84401
801.399.5821 www.clhae.com

CLH ARCHITECTS
ENGINEERS



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION



10984761
SEAN L. NIELSON
STATE OF UTAH

4	s/s Regina Fred	
3	11/29/18	
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

**FLAMING GORGE
RANGER
DISTRICT OFFICE
ADDITION**

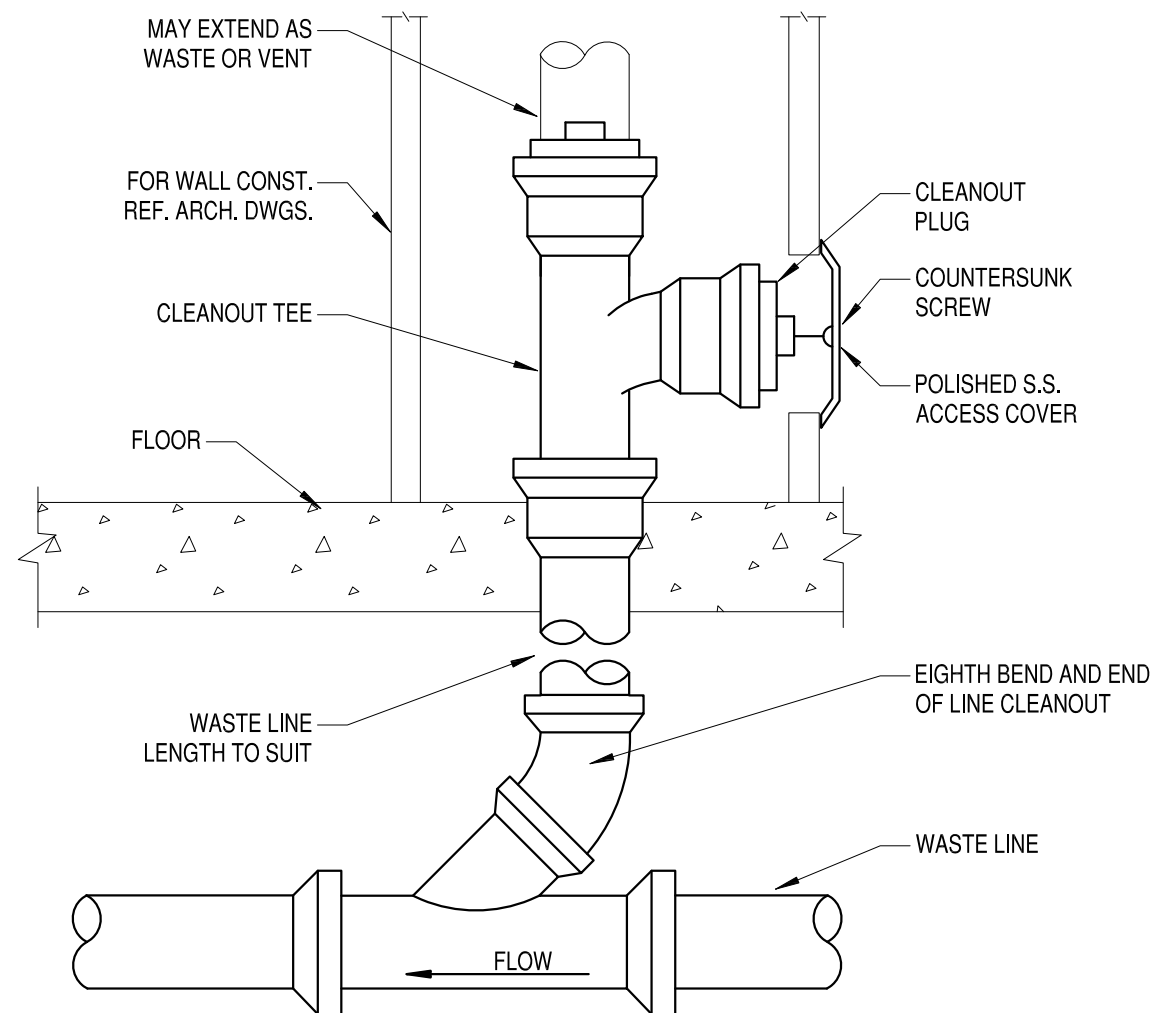
**ASHLEY NATIONAL
FOREST**

FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

PLUMBING DETAILS

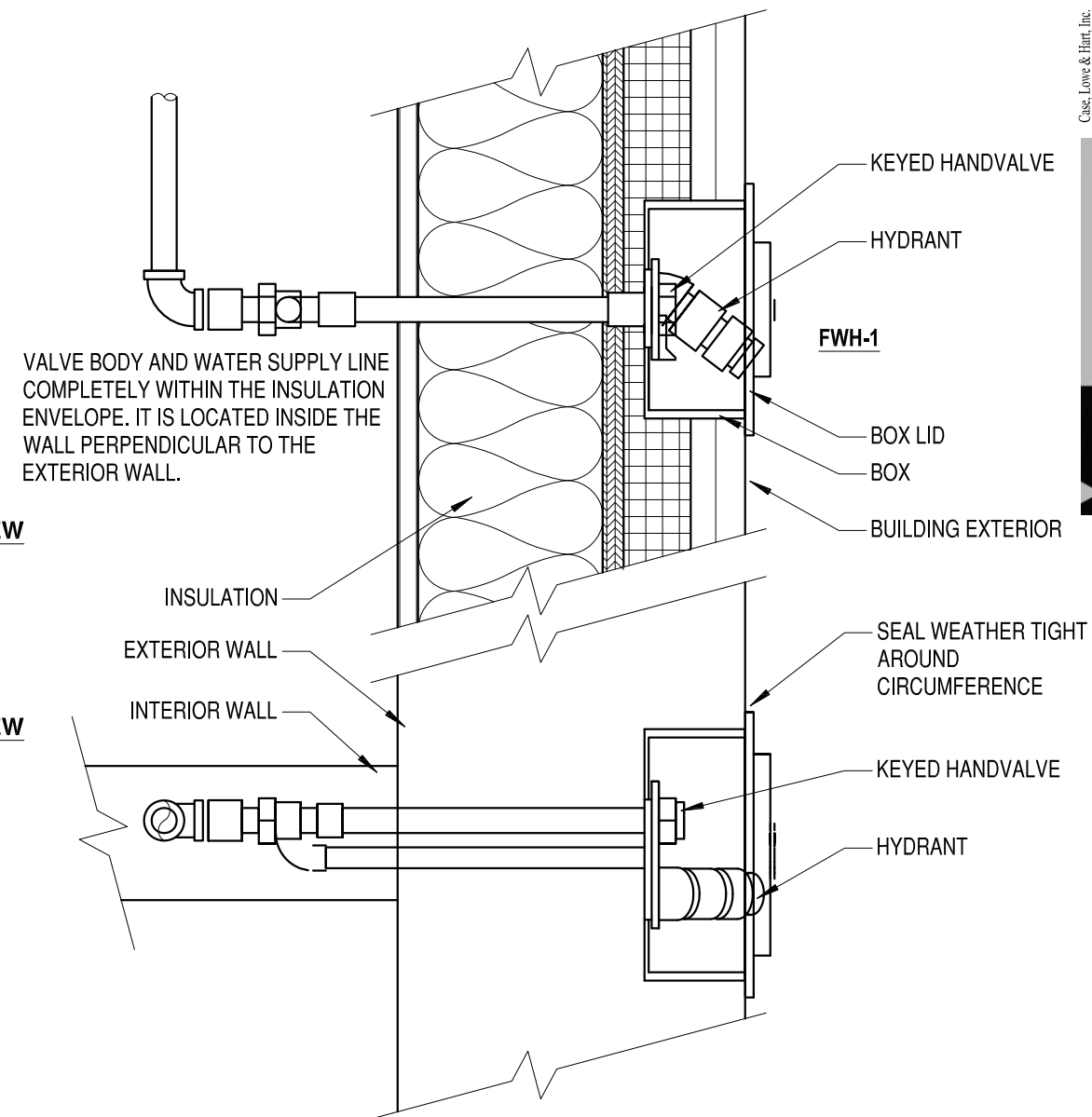
DATE 11/16/2018	ARCHIVE NO.
DESIGNER SN	DRAWING SHEET NO. P502
DRAWN GM, JAC	
CHECKED SN	
PROJECT NO. 644	SHEET 101 OF 119



1 TYPICAL WALL CLEANOUT
NO SCALE

SIDE VIEW

TOP VIEW



2 FREEZELESS WALL HYDRANT DETAIL
NO SCALE

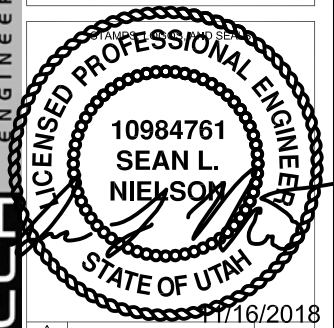
Case, Lowe & Hart, Inc. 2484 Washington Blvd.
Suite 510 Ogden, Utah 84401
801.399.5821
www.clhae.com

ARCHITECTS
ENGINEERS
CLH



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION



4	s/s Regina Fred	
3	11/29/18	
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

**FLAMING GORGE
RANGER
DISTRICT OFFICE
ADDITION**

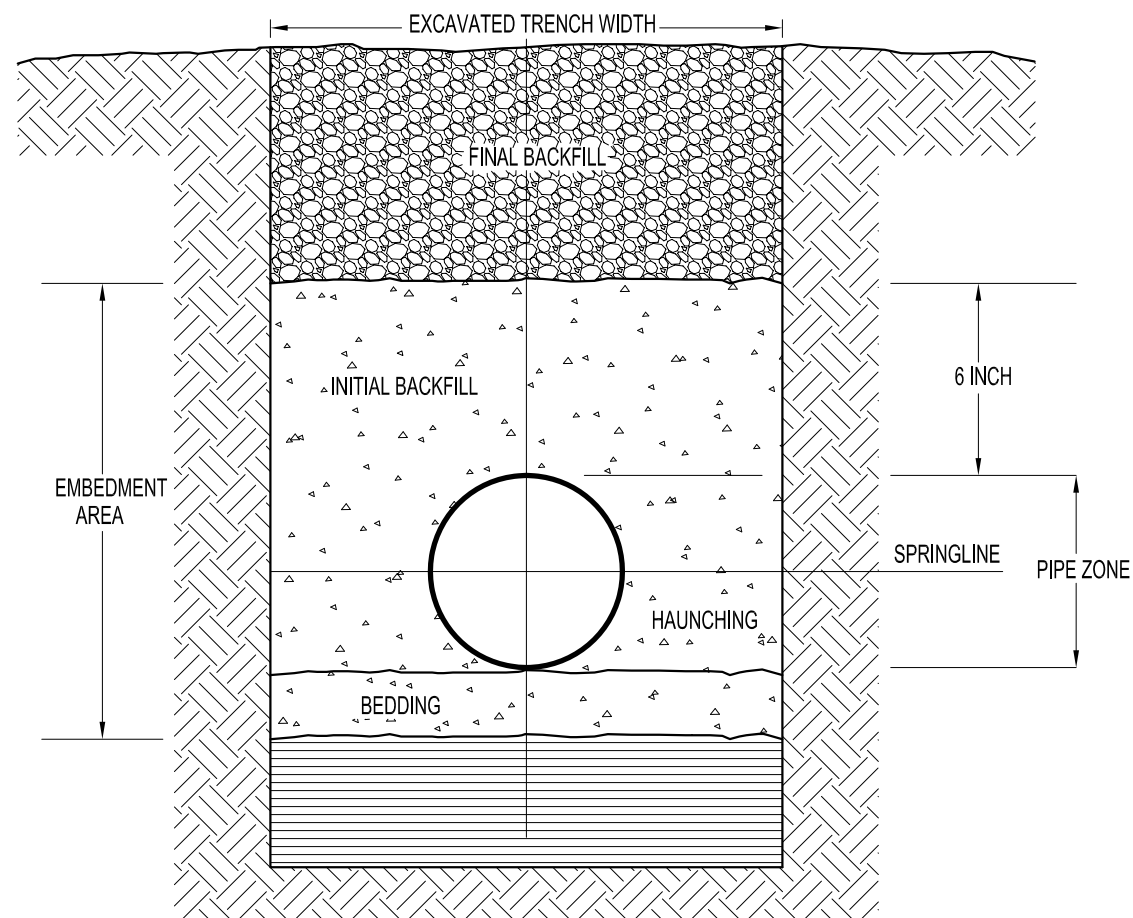
**ASHLEY NATIONAL
FOREST**

FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

PLUMBING DETAILS

DATE 11/16/2018	ARCHIVE NO.
DESIGNER SN	DRAWING SHEET NO. P503
DRAWN GM, JAC	
CHECKED SN	
PROJECT NO. 644	SHEET 102 OF 119



PLASTIC PIPE SHOULD ALWAYS BE BURIED IN STRICT ACCORDANCE WITH THE ASTM STANDARD RELEVANT TO THE TYPE OF PLASTIC PIPING SYSTEM BEING INSTALLED. THOSE STANDARDS ARE:

ASTM D2321 STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY-FLOW APPLICATIONS.

ASTM D2774 STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PRESSURE PIPING.

NOTE: IN ADDITION TO THESE STANDARDS, PIPE SHOULD ALWAYS BE INSTALLED IN ACCORDANCE WITH ALL LOCAL CODE REQUIREMENTS.

RECOMMENDATIONS FOR UNDERGROUND INSTALLATION OF PLASTIC DRAINAGE PIPE:

1. THE MINIMUM WIDTH OF THE TRENCH SHOULD BE THE PIPE OD (OUTSIDE DIAMETER) PLUS 16 INCHES OR THE PIPE OUTSIDE DIAMETER TIMES 1.25 PLUS 12 INCHES. THIS WILL ALLOW ADEQUATE ROOM FOR JOINING THE PIPE, SNAKING THE PIPE IN THE TRENCH TO ALLOW FOR EXPANSION AND CONTRACTION WHERE APPROPRIATE AND SPACE FOR BACKFILLING AND COMPACTION OF BACKFILL. THE SPACE BETWEEN THE PIPE AND TRENCH WALL MUST BE WIDER THAN THE COMPACTION EQUIPMENT USED TO COMPACT THE BACKFILL.
2. PROVIDE A MINIMUM OF 4 INCHES OF FIRM, STABLE AND UNIFORM BEDDING MATERIAL IN THE TRENCH BOTTOM. IF ROCK OR UNYIELDING MATERIAL IS ENCOUNTERED, A MINIMUM OF 6 INCHES OF BEDDING SHALL BE USED. BLOCKING SHOULD NOT BE USED TO CHANGE PIPE GRADE OR TO INTERMITTENTLY SUPPORT PIPE OVER LOW SECTIONS IN THE TRENCH.
3. THE PIPE SHOULD BE SURROUNDED WITH AN AGGREGATE MATERIAL WHICH CAN BE EASILY WORKED AROUND THE SIDES OF THE PIPE. BACKFILLING SHOULD BE PERFORMED IN LAYERS OF 6 INCHES WITH EACH LAYER BEING SUFFICIENTLY COMPACTED TO 85% TO 95% COMPACTION.
4. A MECHANICAL TAMPER IS RECOMMENDED FOR COMPACTING SAND AND GRAVEL. THESE MATERIALS CONTAIN FINE-GRAINS, SUCH AS SILT AND CLAY. IF A TAMPER IS NOT AVAILABLE, COMPACTING SHOULD BE DONE BY HAND.
5. THE TRENCH SHOULD BE COMPLETELY FILLED. THE BACKFILL SHOULD BE PLACED AND SPREAD IN UNIFORM LAYERS TO PREVENT ANY UNFILLED SPACES OR VOIDS. LARGE ROCKS, STONES, FROZEN CLODS, OR OTHER LARGE DEBRIS SHOULD BE REMOVED. STONE BACKFILL SHALL PASS THROUGH AN 1-1/2" SIEVE. ROCK SIZE SHOULD BE ABOUT ONE-TENTH OF THE PIPE OUTSIDE DIAMETER. HEAVY TAMPERS OR ROLLING EQUIPMENT SHOULD ONLY BE USED TO CONSOLIDATE THE FINAL BACKFILL.
6. TO PREVENT DAMAGE TO THE PIPE AND DISTURBANCE TO PIPE EMBEDMENT, A MINIMUM DEPTH OF BACKFILL ABOVE THE PIPE SHOULD BE MAINTAINED. PIPE SHOULD ALWAYS BE INSTALLED BELOW THE FROST LEVEL. TYPICALLY, IT IS NOT ADVISABLE TO ALLOW VEHICULAR TRAFFIC OR HEAVY CONSTRUCTION EQUIPMENT TO TRAVERSE THE PIPE TRENCH.

1**UNDERGROUND PLASTIC SANITARY SEWER DETAIL**

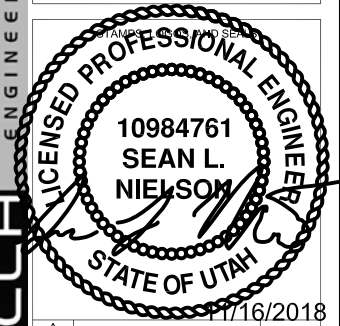
NO SCALE

Case, Lowe & Hart, Inc. 2484 Washington Blvd.
Suite 510 Ogden, Utah 84401
801.399.5821
www.clhae.com

CLH
ARCHITECTS
ENGINEERS



REGION 4
INTERMOUNTAIN REGION



4	s/ Regina Freed	
3	11/29/18	
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME
**FLAMING GORGE
RANGER
DISTRICT OFFICE
ADDITION**

**ASHLEY NATIONAL
FOREST**

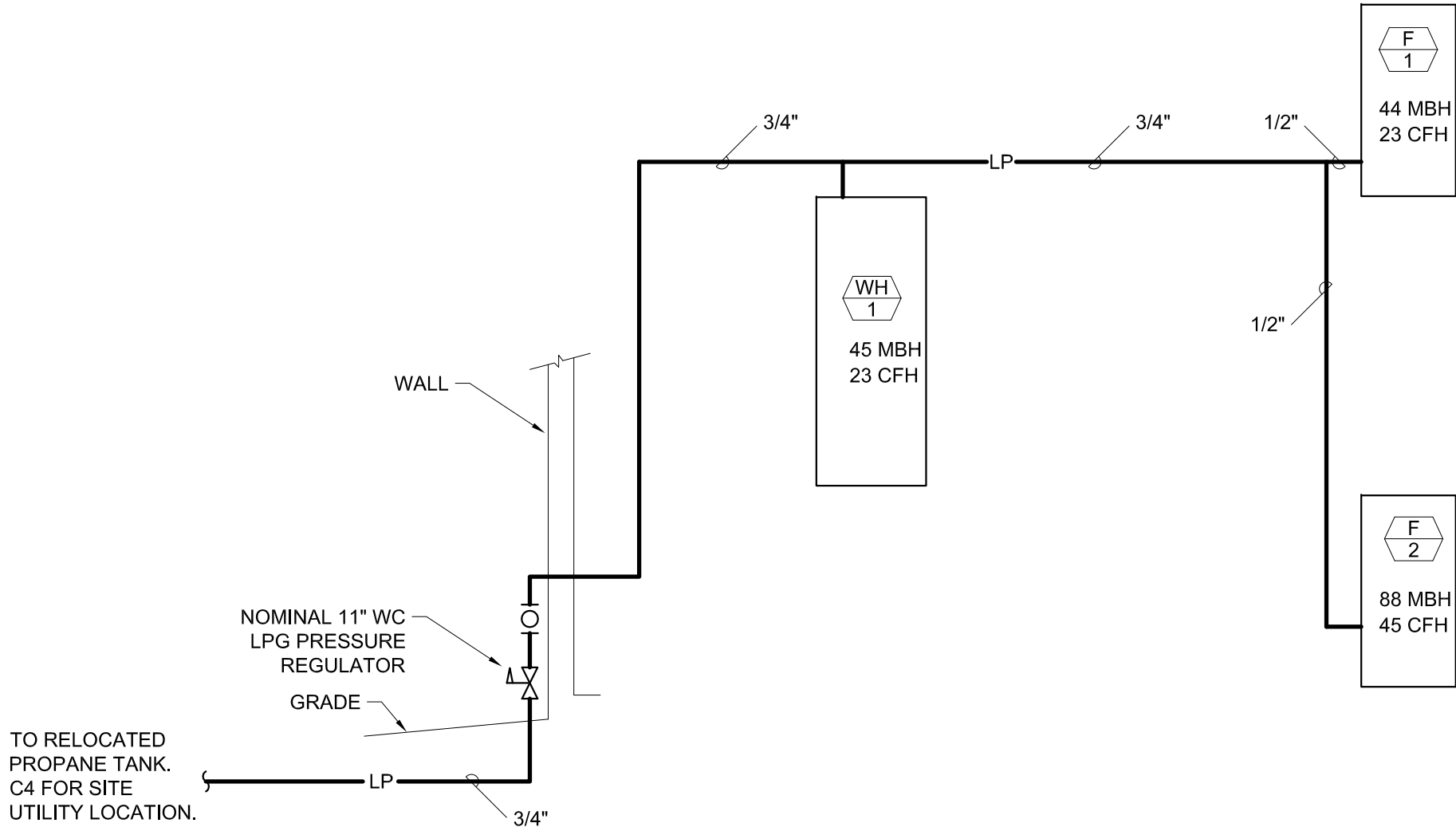
FLAMING GORGE RANGER DISTRICT

DRAWING TITLE
PLUMBING DETAILS

DATE 11/16/2018	ARCHIVE NO.
DESIGNER SN	DRAWING SHEET NO. P504
DRAWN GM, JAC	
CHECKED SN	
PROJECT NO. 644	SHEET 103 OF 119

CLH18511

11/14/18 17:06 JAMES C F:\PROJECTS\18511_FS FLAMING GORGE UPDATES\DRAWING\01_1851.DWG



1 PROPANE GAS PIPING SCHEMATIC
NO SCALE

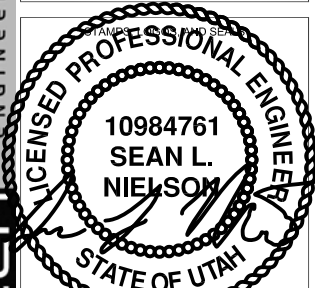
Case, Lowe & Hart, Inc. 2484 Washington Blvd.
Suite 510 Ogden, Utah 84401
801.399.5821
www.clhae.com

CLH
ARCHITECTS
ENGINEERS



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION



11/16/2018

4	s/s Regina Freed	
3	11/29/18	
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER
DISTRICT OFFICE
ADDITION

ASHLEY NATIONAL
FOREST

FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

PLUMBING SCHEMATIC

DATE 11/16/2018	ARCHIVE NO.
DESIGNER SN	DRAWING SHEET NO. P601
DRAWN GM, JAC	
CHECKED SN	
PROJECT NO. 644	SHEET 104 OF 119

CLH18511

11/14/18 16:21 JAMESC F:\PROJECTS\18511_FS FLAMING GORGE UPDATES\DRAWING\001_18511.DWG

SEQUENCE OF OPERATION

GENERAL (ALL VALUES ARE ADJUSTABLE)

SPACE OCCUPIED COOLING TEMP SETPOINT:	75°F
SPACE OCCUPIED HEATING TEMP SETPOINT:	70°F
SPACE UNOCCUPIED COOLING TEMP SETPOINT:	80°F
SPACE UNOCCUPIED HEATING TEMP SETPOINT:	65°F

FURNACE & AIR CONDITIONER SYSTEM (F-1,2, CC-1,2, CU-1,2)
THE FURNACE SHALL BE PROVIDED WITH ELECTROMECHANICAL CONTROLS FROM THE MANUFACTURER. AND SHALL ENABLE THE FURNACE AND CONDENSING UNIT AS DEMANDED BY THE THERMOSTAT. THE FURNACE CONTROLLER SHALL INTERFACE WITH A CONTRACTOR PROVIDED THERMOSTAT (VENSTAR T4900 OR EQUAL). THE THERMOSTAT SHALL INCLUDE AN OUTDOOR TEMPERATURE SENSOR. FURNACE 1 SHALL BE PROVIDED WITH AN ADDITIONAL TEMPERATURE SENSOR IN THE CONFERENCE ROOM THAT WILL AVERAGE TEMPERATURES OF THE SPACES. THE THERMOSTAT WILL BE EQUIPPED WITH A LOCAL OVERRIDE SWITCH FOR OCCUPANCY CONTROL.

THE THERMOSTAT WILL DETERMINE THE OCCUPANCY BASED ON A SCHEDULE. THE THERMOSTAT SHALL ADJUST THE DAILY START TIME OF THE UNIT TO BRING EACH SPACE TO DESIRED OCCUPIED TEMPERATURE IMMEDIATELY PRIOR TO SCHEDULED OCCUPANCY (ENABLE VENMAR COMFORT RECOVERY). WHEN OCCUPIED, THE SUPPLY FAN TO RUN CONTINUOUSLY (ENABLE VENSTAR SMART FAN). COOLING OR HEATING SHALL BE ENABLED TO MAINTAIN OCCUPIED TEMPERATURE SETPOINT. STAGING AND FAN SPEED SHALL BE CONTROLLED BY THE FURNACE CONTROLLER. WHEN UNOCCUPIED, THE SUPPLY FAN TO RUN INTERMITTENTLY WHEN COOLING OR HEATING IS ENABLED TO MAINTAIN UNOCCUPIED TEMPERATURE SETPOINT.

ENERGY RECOVERY VENTILATOR (ERV-1)

THE ERV SHALL BE INTERLOCKED WITH A THERMOSTAT TO RUN DURING OCCUPIED PERIODS. THE SUPPLY FAN SPEED SHALL BE CONSTANT AND SET TO 650 CFM VIA POTENTIOMETER ON THE EC MOTOR CONTROLLER DURING THE TEST AND BALANCE.

ECONOMIZER

THE ERV ECONOMIZER “STOP WHEEL” SHALL BE ENABLED UPON A SIGNAL FROM THE THERMOSTAT (AUX OUTPUT: ECONOMIZER, TEMP CONTROL). ECONOMIZING MODE SHALL BE ENABLED WHEN OUTSIDE AIR TEMPERATURE IS LESS THAN 70°F AND THERE IS A CALL FROM COOLING. THE CONTROLS CONTRACTOR WILL ALSO HAVE TO PROVIDE AN INTERLOCK TO ONLY ALLOW ECONOMIZER MODE WHEN COOLING IS ENABLED.

















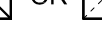
BUILDING PRESSURE CONTROL

THE EXHAUST FAN SPEED SHALL MODULATE TO MAINTAIN TO MAINTAIN BUILDING PRESSURE SETPOINT OF 0.05" WC (ADJ.). A STANDALONE CONTROLLER (HONEYWELL T775U2016) & PRESSURE SENSOR (HONEYWELL P7650A1018) WILL SEND A 0-10V SIGNAL TO THE EXHAUST FAN TO VARY THE FAN SPEED.

MECHANICAL GENERAL NOTES

1. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE 2015 EDITION OF THE INTERNATIONAL MECHANICAL CODE AND SMACNA.
2. MECHANICAL PLANS ARE DIAGRAMMATIC ONLY. CONTRACTOR SHALL COORDINATE THEIR WORK WITH OTHER TRADES, AND ACTUAL JOB SITE CONDITIONS. CONTRACTOR TO FIELD VERIFY QUANTITIES AND DIMENSIONS.
3. CONTRACTOR TO PROVIDE ALL NECESSARY MATERIALS, DUCTWORK, HANGERS, FITTINGS, OFFSETS, INSULATION AND ACCESSORIES LOGICALLY REQUIRED FOR A COMPLETE FUNCTIONAL AIR DELIVERY SYSTEM.
4. DUCT DIMENSIONS ON DRAWINGS ARE INSIDE DIMENSIONS.
5. CONTRACTOR SHALL COORDINATE ALL SUPPLY DIFFUSER PLACEMENTS.
6. ALL SQUARE ELBOWS IN SUPPLY AND RETURN DUCTWORK SHALL HAVE SINGLE THICKNESS TURNING VANES.
7. CONNECTIONS TO SUPPLY DIFFUSERS TO BE MADE WITH A RIDGED CONNECTION SO THAT CLEAR AND UNOBSTRUCTED AIRFLOW IS ACHIEVED.
8. MOUNT BOTTOM OF THERMOSTAT 48 INCHES ABOVE FINISHED FLOOR.
9. CONTRACTOR TO FURNISH FILTERS.
10. REMOTE CONCEALED CEILING CABLE REGULATOR REQUIRED FOR ALL MANUAL VOLUME DAMPERS AND HARD LID CEILING APPLICATIONS.
11. ALL EXPOSED DUCTWORK TO HAVE ALL LABELS AND MARKINGS REMOVED PRIOR TO INSTALLATION.

LEGEND

SYMBOL	DESCRIPTION
	CONDENSATE DRAIN
	DIRECTION OF FLOW
	BALL VALVE
	PIPING UP
	PIPING TEE DOWN
	UNION OR FLANGE
	ROOF DRAIN
	POINT OF CONNECTION
	POINT OF DISCONNECTION
	EXHAUST AIR DUCT - UP / DOWN
	RETURN AIR DUCT - UP / DOWN
	SUPPLY AIR DUCT - UP / DOWN
	MITERED ELBOW W/ TURNING VANES
	THERMOSTAT
	EQUIPMENT SYMBOL
	DETAIL SYMBOL
	AIRFLOW DIRECTION
(E)	EXISTING
L/S	LIQUID /SUCTION REFRIGERANT LINES

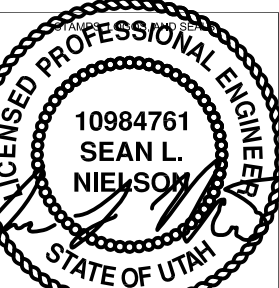
Cass, Lowe & Hart, Inc. 2484 Washington Blvd.
Suite 510 Ogden, Utah 84401
801.399.5821
www.clhae.com

ARCHITECTS
ENGINEERS



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION



4	s/s Regina Freal	
3	11/29/18	
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER
DISTRICT OFFICE
ADDITION

ASHLEY NATIONAL
FOREST

FLAMING GORGE RANGER DISTRICT



DRAWING TITLE

MECHANICAL LEGEND,
NOTES, AND SEQUENCE
OF OPERATIONS





DATE 11/16/2018	ARCHIVE NO.
DESIGNER SN	DRAWING SHEET NO. M001
DRAWN GM, JAC	
CHECKED SN	
PROJECT NO. 644	SHEET 105 OF 119

CLH18511

11/14/18 16:21 JAMESC F:\PROJECTS\18511_FS FLAMING GORGE UPDATES\DRAWING\02_18511.DWG

VARIABLE SPEED GAS FURNACE SCHEDULE														
MARK	MANUFACTURER & MODEL #	DESCRIPTION	AREA SERVED	MAX CFM	OSA CFM	EXT. STATIC PRESS. (in. w.c.)	GAS TYPE 11" w.c.	HTG. CAP INPUT (MBH)	AFUE %	ELECTRICAL		DIMENSIONS HxWxD (IN)	WEIGHT (lbs)	REMARKS
										MOCP	VOLTS/ PHASE			
	LENNOX EL296UH045XV36B	CONDENSING GAS FURNACE TWO STAGE HEAT	SOUTHWEST	1200	300	0.40	LP	44	96.0	15	120 / 1	33 x 18 x 28	129	UP-FLOW UNIT, PROVIDE HIGH ALTITUDE PRESSURE SWITCH KITS, PROVIDE FILTER BOX, CONCENTRIC VENT KIT.
	LENNOX EL296UH090XV60C	CONDENSING GAS FURNACE TWO STAGE HEAT	NORTHWEST	1800	300	0.40	LP	88	96.0	20	120 / 1	33 x 21 x 28	164	UP-FLOW UNIT, PROVIDE HIGH ALTITUDE PRESSURE SWITCH KITS, PROVIDE FILTER BOX, CONCENTRIC VENT KIT.
ALL PERFORMANCE BASED ON SITE ELEVATION OF 6360 FT. ABOVE SEA LEVEL.														


AIR COOLED CONDENSING UNIT SCHEDULE												
MARK	MANUFACTURER & MODEL #	DESCRIPTION	SYSTEM SERVED	REFRIG. TYPE	NOMINAL TONNAGE	SOUND RATING (dBa)	SEER	ELECTRICAL			WEIGHT (lbs)	REMARKS
								MOCP	MCA	VOLTS/ PHASE		
<div>CU 1</div>	LENNOX EL16XC1-030-230	CONDENSING UNIT	<div>CC 1</div>	R-410A	2.5	71	15.5	25	17	230 / 1	187	PROVIDE LINE SETS 3/8" L 5/8" S, TXV, FILTER/ DRIER & SIGHT GLASS, CRANK CASE HEATER, LOW AMBIENT KIT, COMPRESSOR HARD START KIT
<div>CU 2</div>	LENNOX EL16XC1-047-230	CONDENSING UNIT	<div>CC 2</div>	R-410A	4	72	15.1	35	21.9	230 / 1	284	PROVIDE LINE SETS 3/8" L 5/8" S, TXV, FILTER/ DRIER & SIGHT GLASS, CRANK CASE HEATER, LOW AMBIENT KIT, COMPRESSOR HARD START KIT

COOLING COIL SCHEDULE								
MARK	MANUFACTURER & MODEL #	SYSTEM SERVED	CFM	NOM MBH	REFRIG. TYPE	DIMENSIONS HxWxD (in)	WEIGHT (lbs)	REMARKS
	LENNOX CX35-36B-F		1200	3	R-410A	25 x 18 x 21	45	FOR UP-FLOW UNIT, 3/4" CONDENSATE CONNECTIONS
	LENNOX CX35-60C-F		1800	4	R-410A	26 x 22 x 21	60	FOR UP-FLOW UNIT, 3/4" CONDENSATE CONNECTIONS

ENERGY RECOVERY VENTILATOR UNIT SCHEDULE													
MARK	MANUFACTURER & MODEL	AREA SERVED	TYPE	OA/SUPPLY		RETURN/ EXHAUST		ELECTRICAL			DIMENSIONS HxWxD (IN)	WEIGHT (LBS)	REMARKS
				CFM	STATIC PRESS.	CFM	STATIC PRESS.	MCA	MOP	VOLTS/ PHASE			
<div>ERV 1</div>	GREENHECK ERV-10-20L-VG	OUTSIDE AIR	WHEEL	650	0.25	600	0.25	21.9	25	208 / 1	29 x 47 x 34	308	ELECTRIC PREHEATER FOR FROST CONTROL, CLASS 1A DAMPERS, 2" MERV 8 FILTERS, STOP WHEEL ECONOMISER CONTROL, HINGED ACCESS, EC MOTORS.

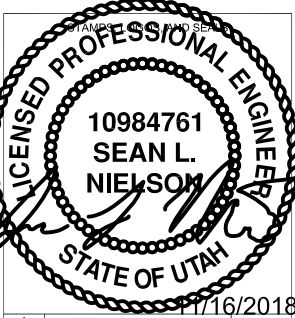
Case, Lowe & Hart, Inc. 2484 Washington Blvd. Suite 510 Ogden, Utah 84401
801.399.5821
www.clhae.com

ARCHITECTS
ENGINEERS
CLH







United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION



10984761
SEAN L. NIELSON
STATE OF UTAH
11/16/2018

	s/s Regina Fred	
	11/29/18	
		
		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

**FLAMING GORGE
RANGER
DISTRICT OFFICE
ADDITION**

ASHLEY NATIONAL
FOREST

FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

**MECHANICAL
SCHEDULES**

DATE 11/16/2018	ARCHIVE NO.
DESIGNER SN	DRAWING SHEET NO. M002
DRAWN GM, JAC	
CHECKED SN	
PROJECT NO. 644	SHEET 106 OF 119

CLH18511


11/14/18 16:21 JAMES C F:\PROJECTS\18511_FS FLAMING GORGE UPDATES\DRAWING\03_18511.DWG

DUCT SEALING & INSULATION R-VALUE SCHEDULE				
DUCT TYPE	DUCT LOCATION			SMACNA SEAL CLASS
	EXTERIOR	UNCONDITIONED SPACE	CONDITIONED SPACE	
SUPPLY	R-12	R-6	NONE	A
RETURN	R-12	R-6	NONE	A
EXHAUST	NONE	NONE	NONE	A
NOTES: NOMINAL R-VALUES ARE FOR THE INSULATION AS INSTALLED AND DO NOT INCLUDE AIR FILM RESISTANCE. PRESSURE SENSITIVE TAPE SHALL NOT BE USED AS THE PRIMARY SEALANT, UNLESS IT HAS BEEN CERTIFIED TO COMPLY WITH UL-181A OR UL-181B BY AN INDEPENDENT TESTING LAB AND THE TAPE IS USED IN ACCORDANCE WITH THAT CERTIFICATION. SMACNA SEAL CLASS A: SEAL TRANSVERSE JOINTS, LONGITUDINAL SEAMS, & DUCT WALL PENETRATIONS.				

REGISTER, GRILLE & DIFFUSER SCHEDULE												
MARK	MANUFACTURER & MODEL	DESCRIPTION	MATERIAL	FINISH	FRAME	DAMPER	MAX. NC	MAX. CFM	MAX APD ("WC)	NECK SIZE	MODULE SIZE	REMARKS
S-1	TITUS ML38	LINEAR SLOT DIFFUSER	ALUMINUM	WHITE	DUCT MOUNT	--	20	185	0.05	--	2'-0"	2 SLOTS, 3/4" WIDTH, PROVIDE WITH EQUALIZING GRID
S-2	TITUS TMR	ROUND DIFFUSER	STEEL	ALUMINUM	DUCT MOUNT	--	17	150	0.11	6"Ø	--	2 SLOTS, 3/4" WIDTH, PROVIDE WITH EQUALIZING GRID
S-3	TITUS ML37	LINEAR SLOT DIFFUSER	ALUMINUM	WHITE	SURFACE MOUNT	--	22	125	0.03	8" OVAL	2'-0"	2 SLOTS, 1/2" WIDTH, PROVIDE WITH LOW PROFILE MPI-37 INSULATED PLENUM ADAPTER
S-4	TITUS ML38	LINEAR SLOT DIFFUSER	ALUMINUM	ALUMINUM	DUCT MOUNT	--	24	300	0.06	--	3'-0"	2 SLOTS, 3/4" WIDTH, PROVIDE WITH ALUMINUM STRAIGHTENING GRID
R-1	TITUS 45F	SIGHTPROOF EGGCRATE GRILLE	ALUMINUM	WHITE	SURFACE MOUNT	--	<15	100	0.01	10"x10"	--	2 SLOTS, 3/4" WIDTH, PROVIDE WITH ALUMINUM STRAIGHTENING GRID
E-1	TITUS 45F	SIGHTPROOF EGGCRATE GRILLE	ALUMINUM	WHITE	SURFACE MOUNT	OPPOSED BLADE	21	250	0.05	10"x10"	--	
E-2	TITUS RX301F	SINGLE DEFLECTION GRILLE	ALUMINUM	WHITE	SURFACE MOUNT	BUTTERFLY	<15	50	0.01	6"Ø	--	
T-1	TITUS 350RL	FIXED BLADE GRILLE	STEEL	WHITE	SURFACE MOUNT	--	<15	370	0.02	14"x14"	--	35° BLADE DEFLECTION, 3/4" BLADE SPACING
T-2	TITUS 45F	SIGHTPROOF EGGCRATE GRILLE	ALUMINUM	WHITE	SURFACE MOUNT	--	21	250	0.05	10"x10"	--	PROVIDE WITH RUSKIN GSV 10"x10"
T-3	TITUS 350RL	FIXED BLADE GRILLE	STEEL	WHITE	SURFACE MOUNT	--	<15	1630	0.04	36"x18"	--	35° BLADE DEFLECTION, 3/4" BLADE SPACING
T-4	TITUS 350RL	FIXED BLADE GRILLE	STEEL	WHITE	SURFACE MOUNT	--	<15	125	0.01	6"x14"	--	35° BLADE DEFLECTION, 3/4" BLADE SPACING
<div><div><div></div><div></div></div><div>TAG</div><div>CFM</div><div>SYMBOL IDENTIFICATION DETAIL</div></div>												

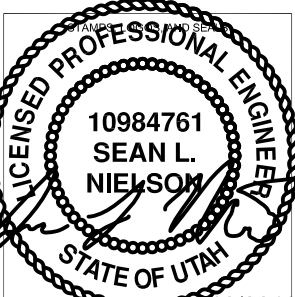
Case, Lowe & Hart, Inc. 2484 Washington Blvd. Suite 510 Ogden, Utah 84401 801.399.5821 www.clhae.com

ARCHITECTS ENGINEERS



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION



11/16/2018

4

s/s Regina Fred

3

11/29/18

2

1

NO.

REVISION / ISSUE

DATE

PROJECT NAME

FLAMING GORGE RANGER DISTRICT OFFICE ADDITION

ASHLEY NATIONAL FOREST

FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

MECHANICAL SCHEDULES

DATE
11/16/2018

ARCHIVE NO.

DESIGNER
SN

DRAWN
GM, JAC

CHECKED
SN

PROJECT NO.
644

DRAWING SHEET NO.
M003

SHEET 107 OF 119

CLH18511

11/14/18 16:21 JAMESC F:\PROJECTS\18511_FS FLAMING GORGE UPDATES\DRAWING\004_18511.DWG;


GRAVITY VENT SCHEDULE											
MARK	MANUFACTURER & MODEL	AREA SERVED	AIRFLOW DIRECTION	CFM	THROAT ("Wx"L)	STATIC PRESSURE ("WC)	WEIGHT (LBS)	DIMENSIONS WxHxD (IN)	MATERIAL	FINISH	NOTES
<div>GV1</div>	GREENHECK GRSR-12	ERV-1 EXHAUST	EXHAUST	600	12"	0.07	10	22x22x10	ALUMINUM	MILL	PROVIDE 24" INSULATED CURB CAP, SLOPED TO MATCH ROOF.

LOUVER SCHEDULE										
MARK	MANUFACTURER & MODEL	SYSTEM SERVED	CFM	FACE VELOCITY (FPM)	FREE AREA (SF)	PRESSURE DROP ("WC)	DIMENSIONS WxHxD (IN)	MATERIAL	FINISH	NOTES
<div>L1</div>	GREENHECK EVH-501	ERV-1 INTAKE	650	681	1.0	0.08	14x26x5	ALUMINUM	50% KYNAR	PROVIDE INSECT SCREEN, MATCH COLOR TO BUILDING EXTERIOR.

Case, Lowe & Hart, Inc. 2484 Washington Blvd. Suite 510 Ogden, Utah 84401
801.399.5821 www.clhae.com

ARCHITECTS
ENGINEERS

CLH



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION



10984761
SEAN L. NIELSON
STATE OF UTAH

<div>4</div>	s/s Regina Fred	
<div>3</div>	11/29/18	
<div>2</div>		
<div>1</div>		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

**FLAMING GORGE
RANGER
DISTRICT OFFICE
ADDITION**

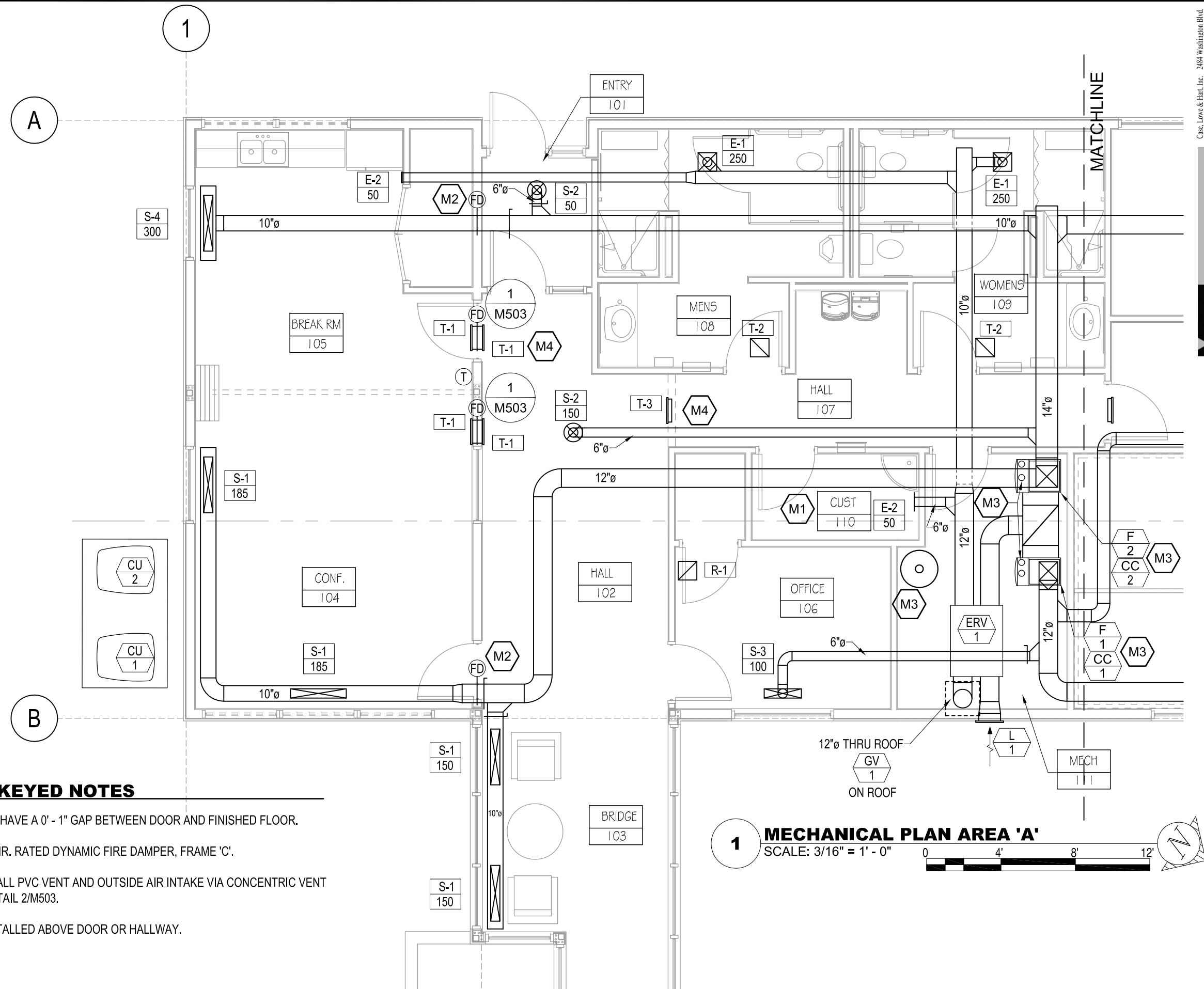
**ASHLEY NATIONAL
FOREST**

FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

**MECHANICAL
SCHEDULES**

DATE 11/16/2018	ARCHIVE NO.
DESIGNER SN	<div>M004</div>
DRAWN GM, JAC	
CHECKED SN	
PROJECT NO. 644	SHEET 104 OF 119

**MECHANICAL KEYED NOTES**

- M1 UNDERCUT DOOR TO HAVE A 0' - 1" GAP BETWEEN DOOR AND FINISHED FLOOR.
- M2 PROVIDE UL 555, 1.5 HR. RATED DYNAMIC FIRE DAMPER, FRAME 'C'.
- M3 PROVIDE 2" SOLID WALL PVC VENT AND OUTSIDE AIR INTAKE VIA CONCENTRIC VENT THRU ROOF. SEE DETAIL 2/M503.
- M4 TRANSFER DUCT INSTALLED ABOVE DOOR OR HALLWAY.

Case, Lowe & Hart, Inc. 2484 Washington Blvd.
Suite 510 Ogden, Utah 84401
801.399.3821
www.clhae.com



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION



4	s/s Regina Fred	
3	11/29/18	
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

**FLAMING GORGE
RANGER
DISTRICT OFFICE
ADDITION**

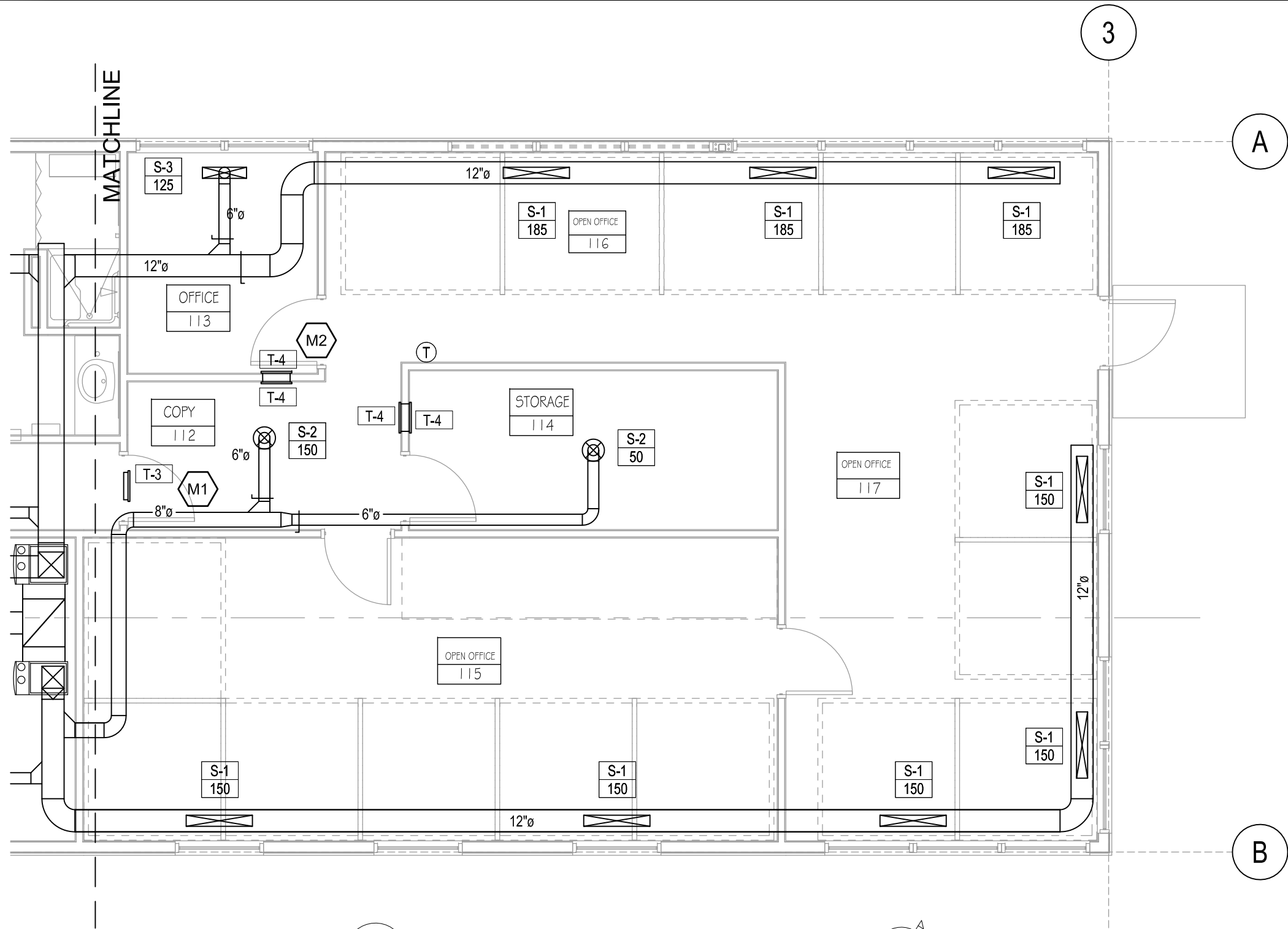
**ASHLEY NATIONAL
FOREST**

FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

**MECHANICAL PLAN
AREA 'A'**

DATE 11/16/2018	ARCHIVE NO.
DESIGNER SN	DRAWING SHEET NO. M101
DRAWN GM, JAC	
CHECKED SN	
PROJECT NO. 644	SHEET 109 OF 119



MECHANICAL KEYED NOTES

- M1 TRANSFER DUCT INSTALLED ABOVE DOOR OR HALLWAY.
- M2 INSTALL TRANSFER GRILLES WITH AIR VENT TRANSFER SILENCER, MODEL L-414.

1 MECHANICAL PLAN AREA 'B'

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

0 4' 8' 12'

N

Case, Lowe & Hart, Inc. 2484 Washington Blvd.
Suite 510 Ogden, Utah 84401
801.399.5821 www.clhae.com

ARCHITECTS
ENGINEERS

USDA
FOREST SERVICE
DEPARTMENT OF AGRICULTURE

United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION

10984761
SEAN L. NIELSON
STATE OF UTAH

11/16/2018

4	s/s Regina Fred	
3	11/29/18	
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER
DISTRICT OFFICE
ADDITION

ASHLEY NATIONAL
FOREST

FLAMING GORGE RANGER DISTRICT

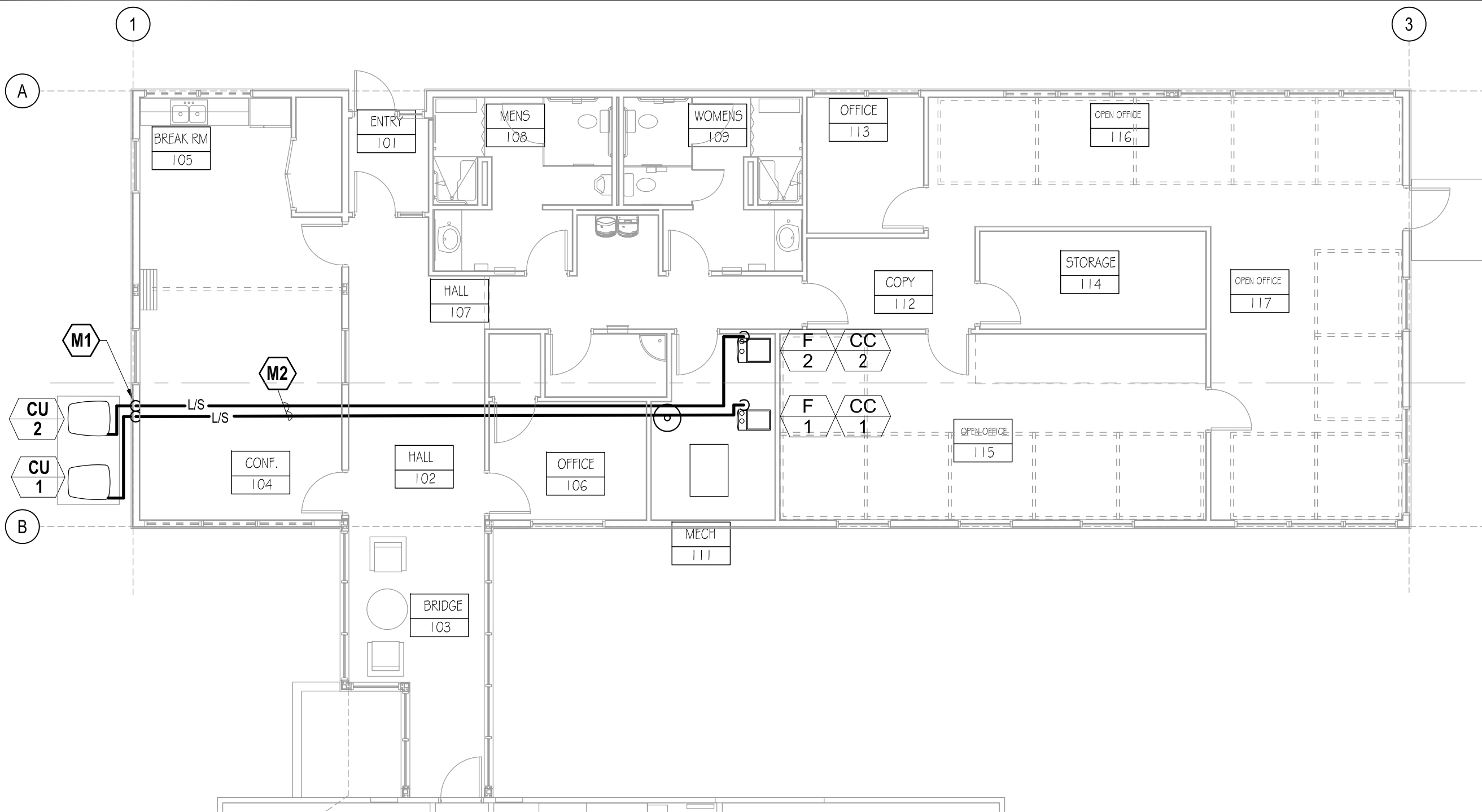
DRAWING TITLE

MECHANICAL PLAN
AREA 'B'

DATE 11/16/2018	ARCHIVE NO.
DESIGNER SN	DRAWING SHEET NO. M102
DRAWN GM, JAC	
CHECKED SN	
PROJECT NO. 644	SHEET 110 OF 119

CLH18511

11/14/18 1621 JAMES C F:\PROJECTS\18511_FS FLAMING GORGE UPDATE\DRAWING\103_18511.DWG



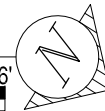
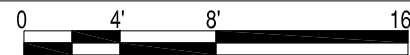
MECHANICAL KEYED NOTES

- M1** ROUTE REFRIGERANT PIPING INSIDE WALL.
- M2** ROUTE LIQUID AND SUCTION REFRIGERANT LINES THROUGH WEB OF TJIs.

1

MECHANICAL PIPING PLAN

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



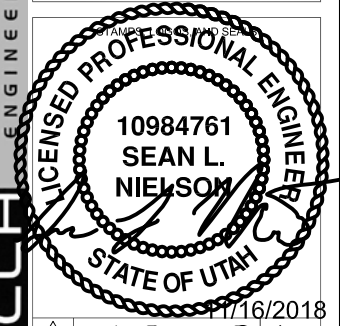
Case, Lowe & Hart, Inc. 2484 Washington Blvd.
Suite 510 Ogden, Utah 84401
www.clhae.com
801.399.5821

CLH
ARCHITECTS
ENGINEERS



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION



4	s/s Regina Fred	
3	11/29/18	
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

**FLAMING GORGE
RANGER
DISTRICT OFFICE
ADDITION**

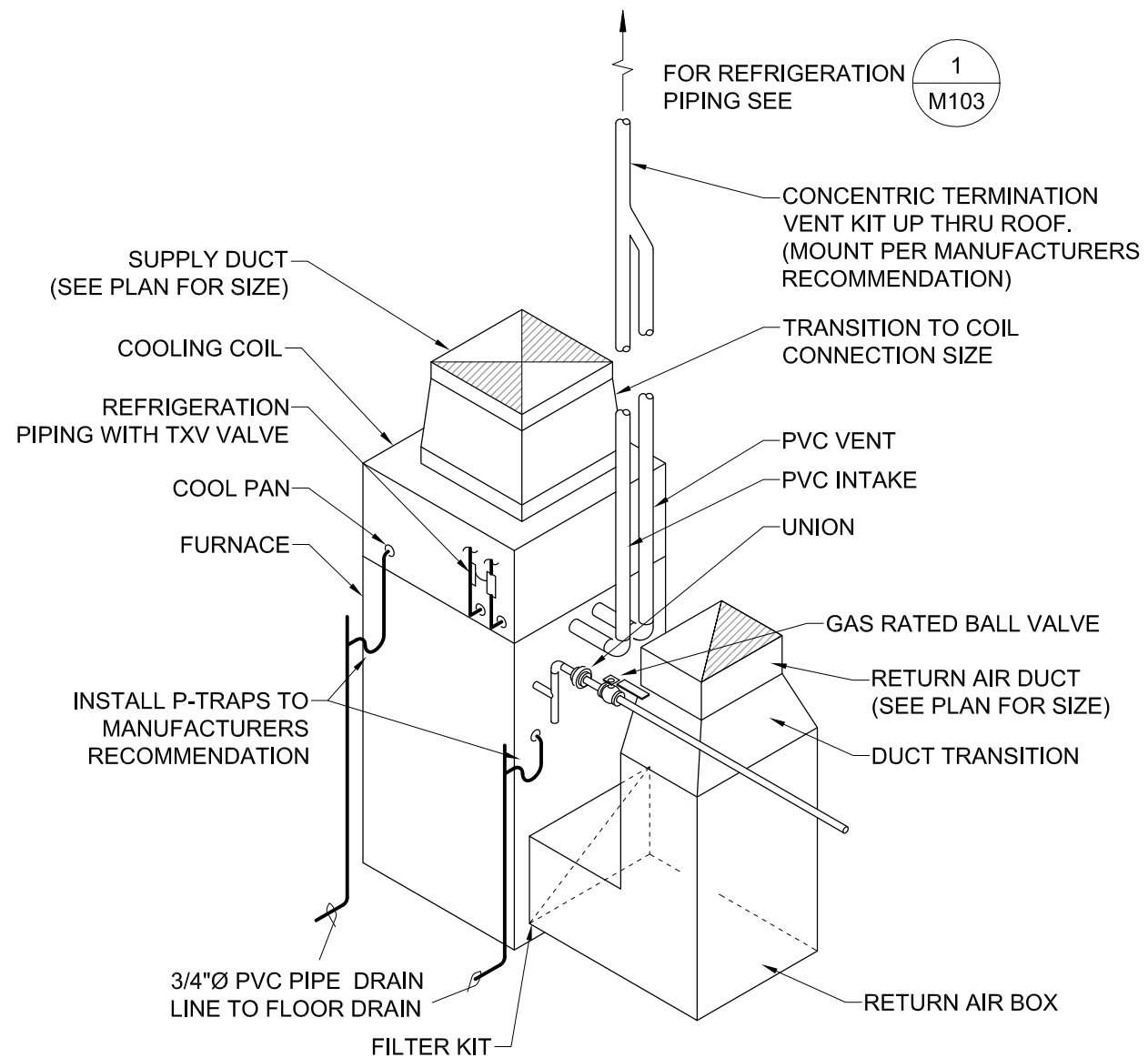
**ASHLEY NATIONAL
FOREST**

FLAMING GORGE RANGER DISTRICT

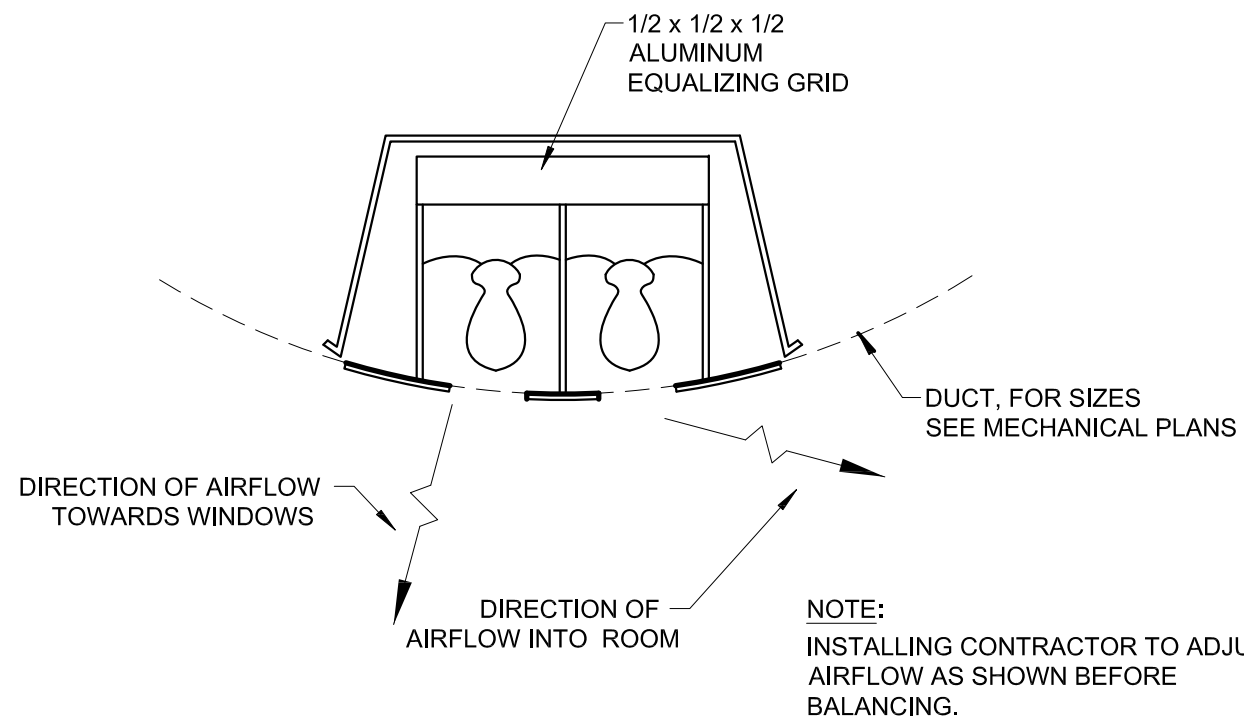
DRAWING TITLE

**MECHANICAL PIPING
AND COMBUSTION DUCT
PLAN**

DATE 11/16/2018	ARCHIVE NO.
DESIGNER SN	DRAWING SHEET NO. M103
DRAWN GM, JAC	
CHECKED SN	
PROJECT NO. 644	SHEET 111 OF 119

**1****FURNACE INSTALLATION DETAIL**

SCALE: NONE

**2****DUCT MOUNTED DIFFUSER DETAIL**

SCALE: NONE

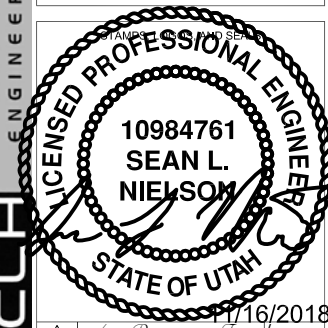
Case, Lowe & Hart, Inc. 2484 Washington Blvd.
Suite 510 Ogden, Utah 84401
801.399.5821
www.clhae.com

ARCHITECTS
ENGINEERS
CLH



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION



4	s/s Regina Fred	
3	11/29/18	
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

**FLAMING GORGE
RANGER
DISTRICT OFFICE
ADDITION**

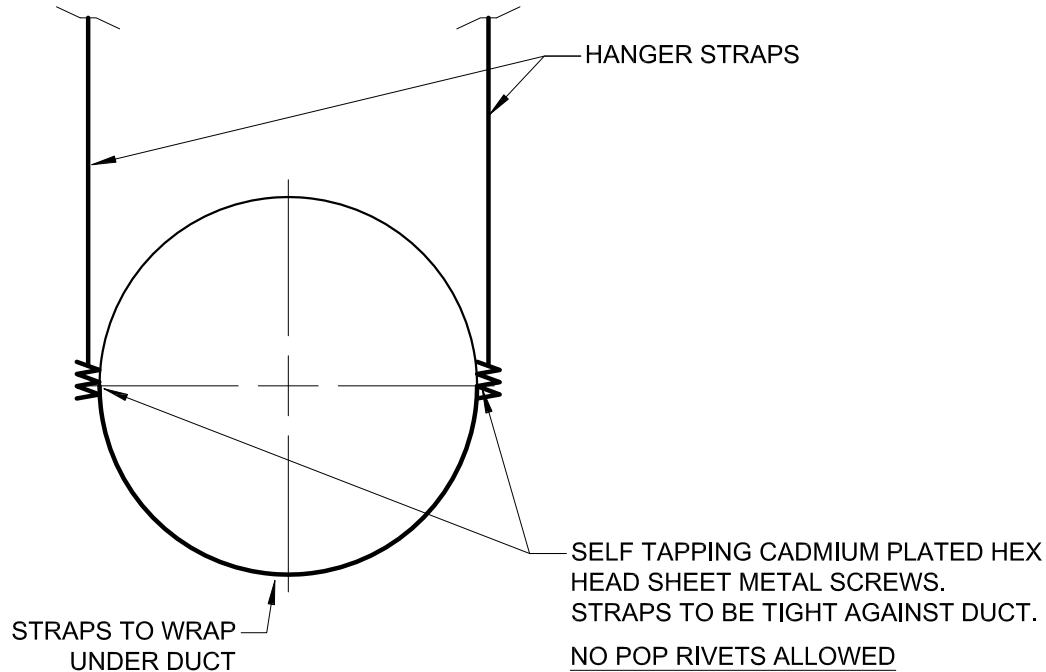
**ASHLEY NATIONAL
FOREST**

FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

MECHANICAL DETAILS

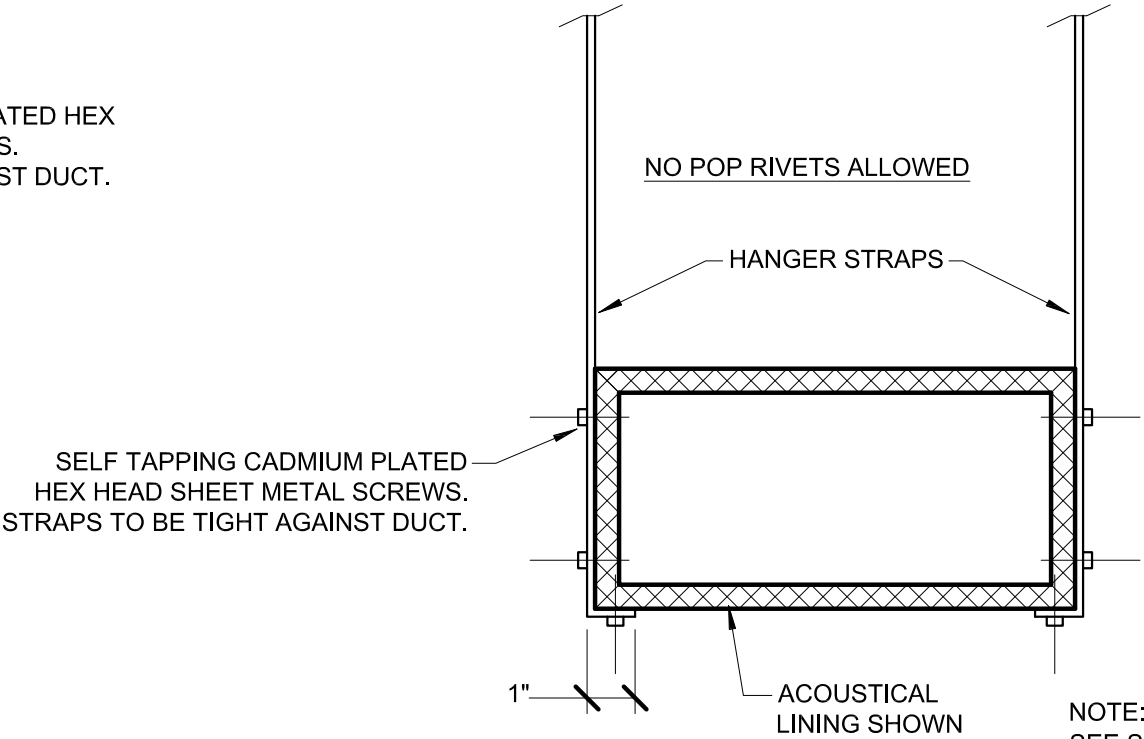
DATE 11/16/2018	ARCHIVE NO.
DESIGNER SN	DRAWING SHEET NO. M501
DRAWN GM, JAC	
CHECKED SN	
PROJECT NO. 644	SHEET 112 OF 119



NOTE:
1. HANGER RODS TO BE 3/8"Ø MIN FOR 18"Ø AND SMALLER DUCT. HANGER RODS TO BE 1/2"Ø MIN FOR LARGER THAN 18"Ø DUCT. HANGER STRAPS TO BE 18 GA, 1" MIN. WIDTH , COMPLETELY WRAP AROUND DUCT. SIZES PER SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
2. SEE STRUCTURAL NOTES FOR DEFERRED SUBMITTAL FOR SEISMIC BRACING.

1 ROUND DUCT HANGER
NO SCALE

HANGER SIZES FOR RECTANGULAR DUCT			
MAX. SIDE	HORIZONTAL SUPPORT ANGLE	HORIZONTAL SUPPORT ANGLE	MAX. SPACING
30"	1" WIDE 18 GA. STRAP	NONE REQUIRED	10'-0"
36"	1/4" ROUND ROD	1 1/2" x 1 1/2" x 1/8"	8'-0"
48"	1/4" ROUND ROD	2" x 2" x 1/8"	8'-0"
60"	5/16" ROUND ROD	2" x 2" x 1/8"	8'-0"
84"	3/8" ROUND ROD	2" x 2" x 1/8"	8'-0"



2 DUCT STRAP HANGER DETAIL
NO SCALE

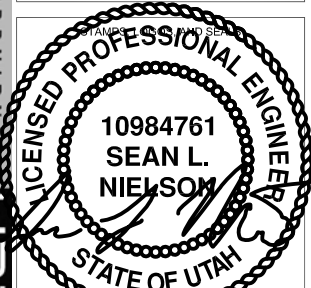
Case, Lowe & Hart, Inc. 2484 Washington Blvd.
Suite 510 Ogden, Utah 84401
801.399.3821
www.clhae.com

ARCHITECTS
ENGINEERS



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION



4	s/s Regina Freed	
3	11/29/18	
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER
DISTRICT OFFICE
ADDITION

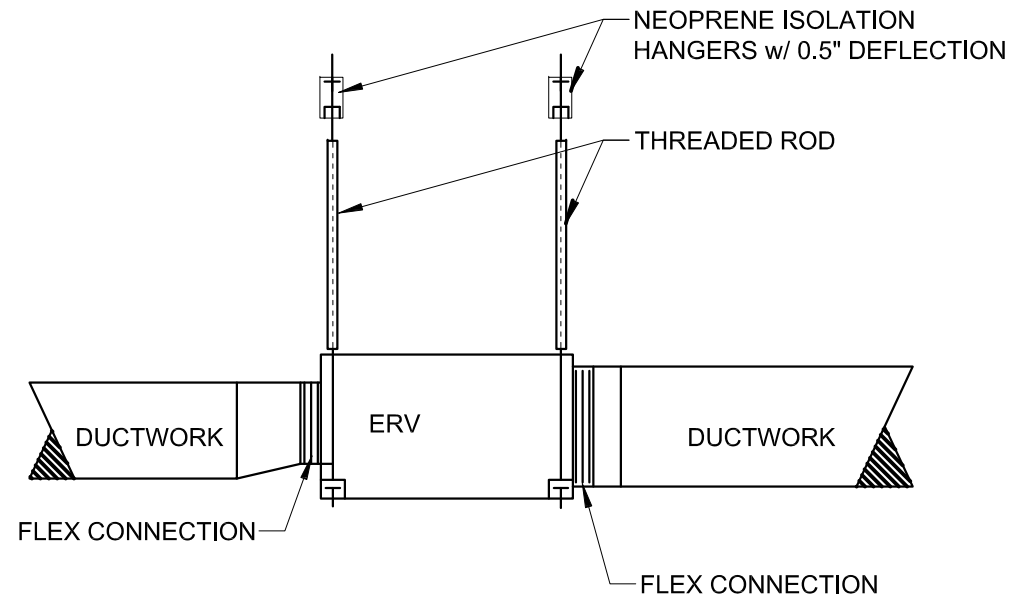
ASHLEY NATIONAL
FOREST

FLAMING GORGE RANGER DISTRICT

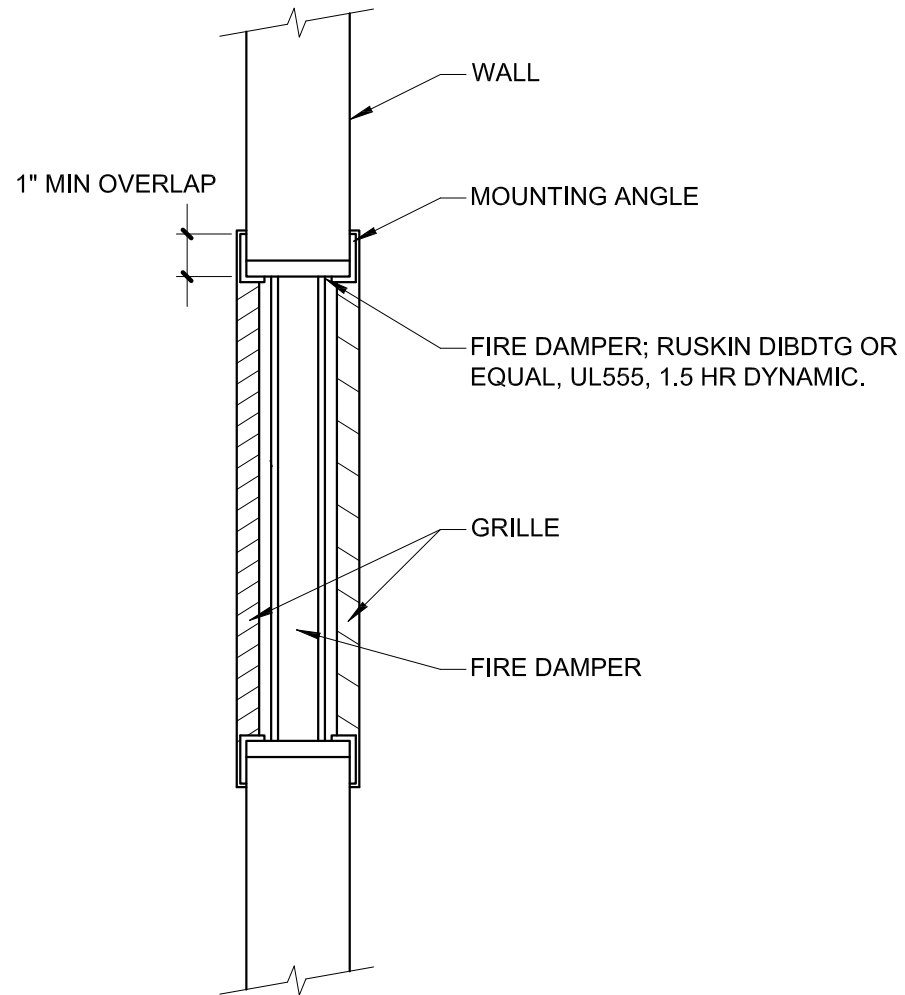
DRAWING TITLE

MECHANICAL DETAILS

DATE 11/16/2018	ARCHIVE NO.
DESIGNER SN	DRAWING SHEET NO. M502
DRAWN GM, JAC	
CHECKED SN	SHEET 113 OF 119
PROJECT NO. 644	



1 **INLINE ERV DETAIL**
NO SCALE



2 **FIRE RATED TRANSFER GRILL DETAIL**
NO SCALE

Case, Lowe & Hart, Inc. 2484 Washington Blvd.
Suite 510 Ogden, Utah 84401
801.399.5821
www.clhae.com

CLH ARCHITECTS
ENGINEERS



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION



4	s/s Regina Fred	
3	11/29/18	
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME
**FLAMING GORGE
RANGER
DISTRICT OFFICE
ADDITION**

**ASHLEY NATIONAL
FOREST**

FLAMING GORGE RANGER DISTRICT

DRAWING TITLE
MECHANICAL DETAILS

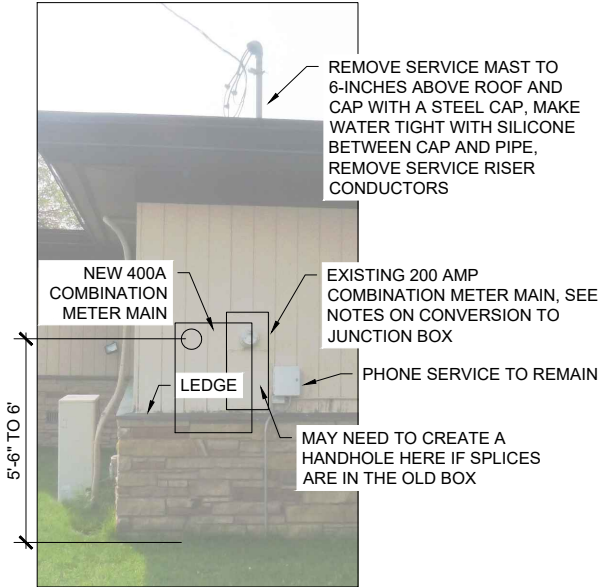
DATE 11/16/2018	ARCHIVE NO.
DESIGNER SN	DRAWING SHEET NO. M503
DRAWN GM, JAC	
CHECKED SN	
PROJECT NO. 644	SHEET 114 OF 119

LEGEND	
<div>PANEL X</div> <div></div>	LOAD CENTER/ PANELBOARD "X"
<div></div>	SAFETY DISCONNECT SWITCH, TYPE "X", "#a" # AMPERE SIZED FUSES
<div></div>	UNDERGROUND ELECTRICAL FEEDER, NEW
<div></div>	COMMUNICATIONS CABLES IN CRAWLSPACE, NEW
<div></div>	SURFACE RACEWAY
<div></div>	WIRE BASKET RUNWAY OF SIZES SHOWN
<div></div>	BLANK FACE GFCI DEVICE INSTALLED AT ABOUT 48-INCH A.F.F.
<div></div>	TIMER, 24 HOUR WITH CARRY OVER, 120 VAC, SET FOR 5:45 AM - 10:00 PM ON FOR PARKING LOT LIGHTS ONLY
<div></div>	HEATER, SEE MECHANICAL DRAWINGS"
<div></div>	SQUARE, SIDE OF POLE MOUNTED LUMINAIRES, TYPE "X", ON CONCRETE BASE WITH POLE, SEE SITE PLANS
<div></div>	LINEAR LUMINAIRE, TYPE "X", LOWER CASE LETTER INDICATES SWITCH GROUP. MOUNTING STYLE: SURFACE AND SUSPENDED
<div></div>	LUMINAIRE, TYPE "X". LOWER CASE LETTER INDICATES SWITCH GROUP. MOUNTING STYLE: RECESSED, SUSPENDED, AND WALL
<div></div>	EXIT SIGN, SINGLE FACE NO DIRECTING ARROWS, TYPE "X". MOUNTING STYLE: BACK
<div></div>	EXIT SIGN, DOUBLE FACE W/ DIRECTING ARROWS, TYPE "X". MOUNTING STYLE: SIDE
<div></div>	SPOT LIGHT, TYPE "X", DOUBLE HEAD, BUILT-IN CONTROLS
<div></div>	EMERGENCY LIGHT, TYPE "X", WITH BATTERY
<div></div>	EMERGENCY LIGHT REMOTE HEAD, TYPE "X", WITH POWER FROM NEARBY "HO" EXIT SIGN
<div></div>	SWITCH, SINGLE POLE. TYPICAL: LOWER CASE LETTERS INDICATE SWITCH CONTROL GROUP. ALSO USED FOR LOCAL LOW POWER DISCONNECTS
<div></div>	SWITCH, MOTION SENSING SET FOR 15 MINUTES, AUTO ON, AND 40-45 FTC LIGHT OVERRIDE (LIGHTS DO NOT AUTO COME ON)
<div></div>	SWITCH, MOTION SENSING SET FOR 5 MINUTES AND MANUAL ON
<div></div>	SWITCH, TIMER
<div></div>	SWITCH, DIMMING, ENSURE COMPATIBILITY WITH CONTROLS, LAMPS, AND BALLASTS
<div></div>	OCCUPANCY SENSOR, LINE OR LOW VOLTAGE, TYPICALLY PIR TYPE UNLESS "U" OR "UD" INDICATED, LOWER CASE LETTER INDICATES SWITCH GROUP. MOUNTING: CEILING, SUSPENDED, OR BUILT INTO LUMINAIRE BANK. "U" - PROVIDE DUAL TECHNOLOGY PIR AND EITHER ULTRASONIC OR LISTENING STYLE SENSING. "UD" - PROVIDE DUAL PIR AND ULTRASONIC SENSING ONLY. SEE LIGHTING NOTES FOR PERFORMANCE REQUIREMENTS. NOTE: TYPE A LUMINAIRES TO BE ALSO CONTROLLED BY BUILT-IN DIMMING LIGHT HARVESTING.
<div></div>	PHOTO CONTROL, TYPE "X", LOWER CASE LETTER INDICATES SWITCH GROUP. SET SO OUTDOOR SENSORS TO NOT COME ON BEFORE 1FTC, INDOOR AT ABOUT 10 FTC ±3
<div></div>	RECEPTACLE, DUPLEX
<div></div>	RECEPTACLE, GFCI

	RECEPTACLE, GFCI WITH WEATHERPROOF COVER
	RECEPTACLE, QUAD OR TWO DUPLEX
	RECEPTACLE, SPECIAL. CONNECTION POINT FOR SYSTEMS FURNITURE
	RECEPTACLE IN FLOOR BOX OF TYPE INDICATED
	DATA OUTLET, 2-PORT UNLESS NOTED WITH A NUMBER WHICH INDICATES DIFFERING NUMBER OF PORTS
	DATA OUTLET, FLOOR MOUNTED
<div>X-#</div>	CIRCUIT TAG: "X" INDICATES PANEL, AND "#" IS THE CIRCUIT NUMBER
<div>o </div>	BRANCH CIRCUIT: o - INDICATES GROUND, LONG LINE - "NEUTRAL" OR "GROUNDED CONDUCTOR" AND THE SHORT LINE - "HOT" OR "LINE" CONDUCTORS
<div>##"</div>	INDICATES UNUSUAL MOUNTING HEIGHT

GENERAL NOTES

- FAMILIARIZATION WITH BUILDING FINISHES AND CONSTRUCTION IS REQUIRED.
- ELECTRICAL INSTALLATION WILL REQUIRE COORDINATION IN ALL STAGES OF BUILDING, INCLUDING:
 - UNDER SLAB FEEDS.
 - WALL EMBEDDED CIRCUITS AND COMMUNICATIONS.
 - CEILING EMBEDDED CIRCUITS.
- A CONCRETE ENCASED ELECTRODE SHALL BE INSTALLED IN NEW ADDITIONS FOOTINGS AND BONDED TO EQUIPMENT GROUND IN PANEL D. NO NEUTRAL BOND ALLOWED AT THIS LOCATION.



EXISTING ELECTRICAL SERVICE

SERVICE REPLACEMENT NOTES

- THE EXISTING SERVICE IS A 200 AMP COMBINATION METER MAIN. COORDINATE WITH BRIDGER VALLEY ELECTRICAL ASSOCIATION (VAL CROOK 307-786-2800) FOR CHANGES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONNECTION RELATED FEES. EXISTING, RENTED YARD LIGHT AND POLE ON NORTH SIDE OF YARD WILL BE REMOVED BY THE POWER COMPANY, SEE SHEET E2.
- NEW SERVICE SHALL BE 400 AMP BURIED LATERAL FROM A NEW POLE SET BY BRIDGER VALLEY WITH BRIDGER VALLEY BRINGING THE SERVICE WITH CONDUIT INTO THE NEW COMBINATION METER MAIN.
- CONVERT EXISTING SERVICE EQUIPMENT INTO A JUNCTION BOX BY GUTTING AND REMOVING DEAD FRONT, PROVIDING A PERMANENT BLANK FOR THE METER LOCATION. INSTALL PERMANENT EQUIPMENT GROUNDING BOND TO THE BOX. NIPPLE EXISTING CIRCUITS INTO NEW PANEL THROUGH DOOR OF OLD PANEL.
 - IF EXISTING CIRCUITS ARE ALL LONG ENOUGH TO EXTEND INTO THE NEW PANEL WITHOUT SPLICES UNTIL WELL WITHIN THE NEW PANEL, NO ACCESS IS REQUIRED INTO THE OLD PANEL.
 - IF EXISTING CIRCUITS NEED SPLICING BEFORE THE NEW PANEL, MANUFACTURE, GASKETED, FLAT, SCREW ATTACHED, STEEL ACCESS PLATE INTO THE OLD DOOR. THIS ACCESS PLATE SHALL PROVIDE 4-INCHES WIDE BY 12-INCHES TALL INTO THE DOOR OF THE PANEL WITH THE ACCESS HOLE BEING FREE FROM METAL BURRS. LOCATE WITHIN 1-INCH FROM THE RIGHT EDGE OF THE DOOR. MOUNT THE NEW SERVICE PARTIALLY IN FRONT OF THE OLD PANEL AS SHOWN.
 - NO SPLICES ARE ALLOWED IN CONDUIT.
- PROVIDE AND INSTALL NEW COMBINATION METER MAIN WITH UNISTRUT MOUNTING PROVIDED TO PLACE PANEL BEYOND LEDGE FOR A STRAIGHT CONDUIT INTO THE BOTTOM OF THE PANEL.
 - UNISTRUT SHALL NOT EXTEND BEYOND PANEL EDGES.
- PAINT NEW SERVICE, MOUNTING AND ANY NEW ACCESS PLATE TO MATCH THE BUILDINGS EXTERIOR SIDING.
- INSTALL EXISTING CIRCUITS AND NEW FEEDER AS CALLED FOR.

<div></div> <div></div> <div>United States Department of Agriculture Forest Service</div> <div>REGION 4 INTERMOUNTAIN REGION</div>		
STAMPS, LOGOS, AND SEALS		
<div>s/s Regina Fred</div>		
<div></div>	11/29/18	
<div></div>		
<div></div>		
<div></div>		
NO.	REVISION / ISSUE	DATE

PROJECT NAME	
FLAMING GORGE RANGER DISTRICT OFFICE ADDITION	
ASHLEY NATIONAL FOREST	
FLAMING GORGE RANGER DISTRICT	

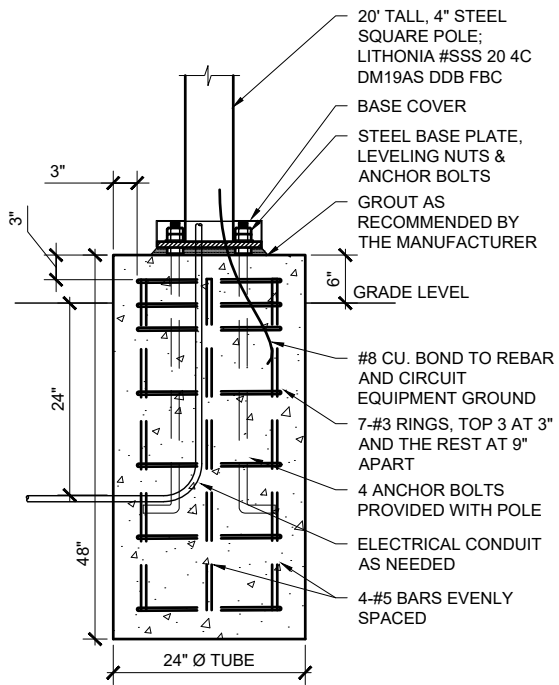
DRAWING TITLE	
ELECTRICAL LEGEND AND SERVICE REPLACEMENT	

DATE	ARCHIVE NO.	
DESIGNER S.BROWN	DRAWING SHEET NO.	
DRAWN S.BROWN	E0.01	
CHECKED D.JEPPSEN		
PROJECT NO.	SHEET 115 OF 119	

PANEL A (SERVICE) SCHEDULE											
TYPE: MILBANK [M400-UG-APS-LC WITH CUTLER-HAMMER BRANCH CIRCUIT BREAKERS]					FEEDER: NEW SERVICE LATERAL PROVIDED BY BRIDGER VALLEY ELECTRIC				GROUNDING: NEW #2 CU GRD TO WATER PIPES, AND #6 EXISTING GROUND ROD AND NEW SUPPLEMENTAL GROUND ROD		
CKT	LOAD DESCRIPTION	BREAKER	AWG	LOAD (WATTS)		AWG	BREAKER	WATTS	LOAD DESCRIPTION		CKT
				A	B						
1	MAIN POWER FOR BUILDING, PANEL B	CH2100	EX			EX	CH260		COMPUTER ROOM, PANEL C		2
3											
5	COMPUTER ROOM AIR CONDITIONER	CH230	EX			EX	CH120		COMPUTER ROOM INDOOR AC UNIT (MAYBE UNUSED?)		6
7											EX
9	? MAY BE UNUSED	CH120	EX			EX	CH120		PLUGMOLD IN THE COPIER ROOM		10
11	SPRINKLER	CH120	EX								12
13											14
15											16
17											18
19											20
21											22
23											24
SECOND 200 AMP MAIN TO FEED PANEL D IN NEW ADDITION											

"EX" - MEANS THE CIRCUIT AND WIRING EXISTS AND SHALL BE REWORKED INTO NEW SERVICE.

PANEL D SCHEDULE												
TYPE: SQUARE D [Q014252L200G WITH QOC42US]			120/240 VAC 1 PHASE A.I.C.: 10,000 SURFACE MOUNT		FEEDER: SZ 2.5C, 3#3/0&1#2GND				GROUNDING: #2 CU GRD TO CONCRETE ENCASED ELECTRODE, SEE SPECIFICATIONS			
CKT	LOAD DESCRIPTION	WATTS	BREAKER	AWG	LOAD (WATTS)		AWG	BREAKER	WATTS	LOAD DESCRIPTION	CKT	
					A	B						
1	RECEPTACLES--HALL/MECHANICAL/JANITOR/EXTERIOR	1260	Q0120	12	4160		8	Q0250	2900	AIR CONDITIONER--WEST "CU2"	2	
3	RECEPTACLES--OPEN OFFICES GENERAL USE/STORAGE	1440	Q0120	12		4340			2900		4	
5	RECEPTACLES--BREAK AREA SOUTH COUNTER AND UNDER SINK	360	Q0120	12	360						6	
7	RECEPTACLES--BREAK AREA NORTH COUNTER AND FRIDGE	980	Q0120	12		980					8	
9	RECEPTACLES--BREAK AREA MICROWAVE	1500	Q0120	12	3150		10	Q0225	1650	AIR CONDITIONER--EAST "CU1"	10	
11	RECEPTACLES--CONFERENCE ROOM	1440	Q0120	12		3090			1650		12	
13	RECEPTACLES--SOUTHEAST OFFICE AND CLOSET	900	Q0120	12	900						14	
15	RECEPTACLES--RESTROOMS	360	Q0120	12		360					16	
17	RECEPTACLES--NORTHEAST OFFICE AND PRINT AREA	1080	Q0120	12	2580		12	Q0120	1500	FURNACE--WEST "F2"	18	
19	RECEPTACLES--NE OPEN OFFICE, SOUTHWEST CUBICLES	1620	Q0120	12		1620					20	
21	RECEPTACLES--NE OPEN OFFICE, NORTHWEST CUBICLES	1080	Q0120	12	2280		14	Q0115	1200	FURNACE--EAST "F1"	22	
23	RECEPTACLES--NE OPEN OFFICE, NORTH AND EAST CUBICLES	2160	Q0120	12		2830	14	Q0215	670	ERV UNIT	24	
25	RECEPTACLES--NE OPEN OFFICE, COUNTER	720	Q0120	12	1390				670		26	
27	RECEPTACLES--WEST OPEN OFFICE, NORTH CUBICLES	1620	Q0120	12		2820	14	Q0115	1200	HEATER--VESTIBULE	28	
29	RECEPTACLES--WEST OPEN OFFICE, SOUTH CUBICLES	1620	Q0120	12	2460		14	Q0115	840	LIGHTS--SOUTH AND PRINT AREA	30	
31	RECEPTACLE--WATER HEATER AND CIRCULATING PUMP	200	Q0115	14		1105	14	Q0115	905	LIGHTS--NORTH	32	
33					268		14	Q0115	268	LIGHTS--PARKING	34	
35											36	
37											38	
39											40	
41											42	
CODE CALCULATED TOTAL LOAD (WATTS):		LOAD PER PHASE: (WATTS)		17548	17145							



LIGHT POLE CONCRETE BASE DETAIL

LIGHT POLE NOTES

- 1- SEE SITE PLAN FOR POLE LOCATIONS.
- 2- ENSURE ELECTRICAL CONDUIT IS INSTALLED WITHIN CONCRETE BASE.
- 3- FACTORY SUPPLIED TEMPLATE MUST BE USED WHEN SETTING ANCHOR BOLTS.
- 4- ALL REBAR TO HAVE A MINIMUM 3" CLEARANCE FROM THE EDGE OF THE CONCRETE. TIE REBAR AT EVERY CROSSING/INTERSECTION.
- 5- COMPACT SUBGRADE TO REQUIRED ELEVATION BEFORE PLACING THE CONCRETE FOOTING.
- 6- CONCRETE REQUIREMENTS:
 - 3750 PSI CONCRETE @ 28 DAYS MINIMUM
 - CLASS A CONCRETE:
 - 6.5 BAGS/CY MINIMUM
 - MAXIMUM WATER/CEMENT RATIO - 5.5 GAL/BAG
 - COARSE AGGREGATE SIZE RANGE 1-1/2" TO #4 STANDARD OR 1" TO #4 ALTERNATIVE
 - SLUMP RANGE: 1" TO 3" FOR STANDARD COARSE AGGREGATE AND 2" TO 4" FOR ALTERNATIVE AGGREGATE
 - REQUIRED ENTRAINED AIR: 4% TO 6%
- 7- POUR CONCRETE AT TEMPERATURE ABOVE 35° FAHRENHEIT KEEP CONCRETE TEMPERATURE OVER 50° FOR 5 DAYS.
- 8- BACKFILL AREA AROUND FOOTING WITH CRUSHED AGGREGATE BASE MATERIAL AND COMPACT TO AT LEAST 95% MAXIMUM DENSITY.
- 9- INSTALL WITH LIGHTING, MOUNTING DEVICES AND ALL OTHER NEEDED EQUIPMENT AS CALLED FOR. SEE LUMINAIRE LEGEND AND ALSO SHEETS C4 OR C3 ITEMS 15.

LUMINAIRE SCHEDULE							
TYPE	DESCRIPTION	MANUFACTURER	MODEL #	LAMPS	MOUNTING	Qty	NOTES:
A(1)	LINEAR 1/D	PEERLESS	BRM9L VARIES MSL8 80CRI 35K ID800LMF 10/90 MIN1 ZT 120 SCT VARIES F2/SLP OJB 48A (OR VARIES) C210	LED	CABLE/CEILING	46	SEE NOTES AND SPECS FOR CONTROLS, (1) STYLE ARE SWITCH CONTROLLED DIMMING WITHOUT DAYLIGHT DIMMING SENSOR ALL OTHER SHALL HAVE BUILT-IN DIMMING LIGHT HARVESTING SET PER LIGHTING NOTES, QUANTITY IS PER 4-FT SECTION
B	1X4 LED	LITHONIA	LBL2LP835	32W LED	SURFACE/CEILING	10	
C	DOWN LIGHT	GOTHAM	EVO 35/10 6 DFAMF MVOLT	LED	RECESSED/CEILING	2	
CE	DOWN LIGHT	LITHONIA	LDN6 35/10 L06 WR LSS MVOLT ELR	11.8W LED	RECESSED/CEILING	1	MOUNT REMOTE TEST SWITCH ABOUT 6-INCH ABOVE INTERIOR DOOR
D	CYLINDER	LITHONIA	LDN6CYL 35/05 L06 WR LSS MVOLT WM DWHG	7.6W LED	SURFACE/WALL	1	
DC	CYLINDER	LITHONIA	LDN6CYL 35/10 L06 BR LSS MVOLT WM WL DDB	12.6W LED	SURFACE/WALL	2	
E	EMERGENCY LIGHT	LITHONIA	EU2 LED M12	(2) 1W LED	SURFACE/WALL/BACK	2	
F	SECURITY FLOODLIGHT	LITHONIA	OLF 2RH 40K 120 MO BZ	(2) 12.5W LED	SURFACE/WALL	1	
G(S)	LINEAR 1/D	PEERLESS	BRM9L S VARIES 80CRI 35K 750LMF MIN1 ZT 120 SCT VARIES C210	LED	SURFACE/CEILING	6	SEE NOTES AND SPECS FOR CONTROLS, (S) STYLE IS DAYLIGHT DIMMING SECURTIY LUMINAIRE DIMMING WITHOUT DAYLIGHT DIMMING SENSOR ALL OTHER SHALL HAVE BUILT-IN DIMMING LIGHT HARVESTING SET PER LIGHTING NOTES, QUANTITY IS PER 4-FT SECTION
X	EXIT SIGN	LITHONIA	ECG LED M6	LED	SURFACE/WALL/BACK	4	
XH	EXIT SIGN	LITHONIA	ECG LED HO M6	LED	SURFACE/WALL/SIDE	3	POWERS LOCAL REMOTE HEADS
X2	EXIT SIGN	LITHONIA	ECG LED M6	LED	SURFACE/SIDE/WALL	1	DUAL FACE
RI	REMOTE LAMP	LITHONIA	ELA LED M12	1W LED	SURFACE/WALL	1	
RE	REMOTE LAMP	LITHONIA	ELA LED WP M12	1W LED	SURFACE/WALL	2	
S2	LED AREA LUMINAIRE	LITHONIA	CSX1 LED 60C 40K TM3 MVOLT SPA DDBXD	134W LED	POLE	2	SEE DETAIL FOR POLE, DLL127F 1.5 JU PHOTOCELL, ON TIMER
TOTAL						84	



United States Department of Agriculture
Forest Service

REGION 4

INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Fred

4	11/29/1	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

**FLAMING GORGE
RANGER
DISTRICT OFFICE
ADDITION**

**ASHLEY
NATIONAL FOREST**

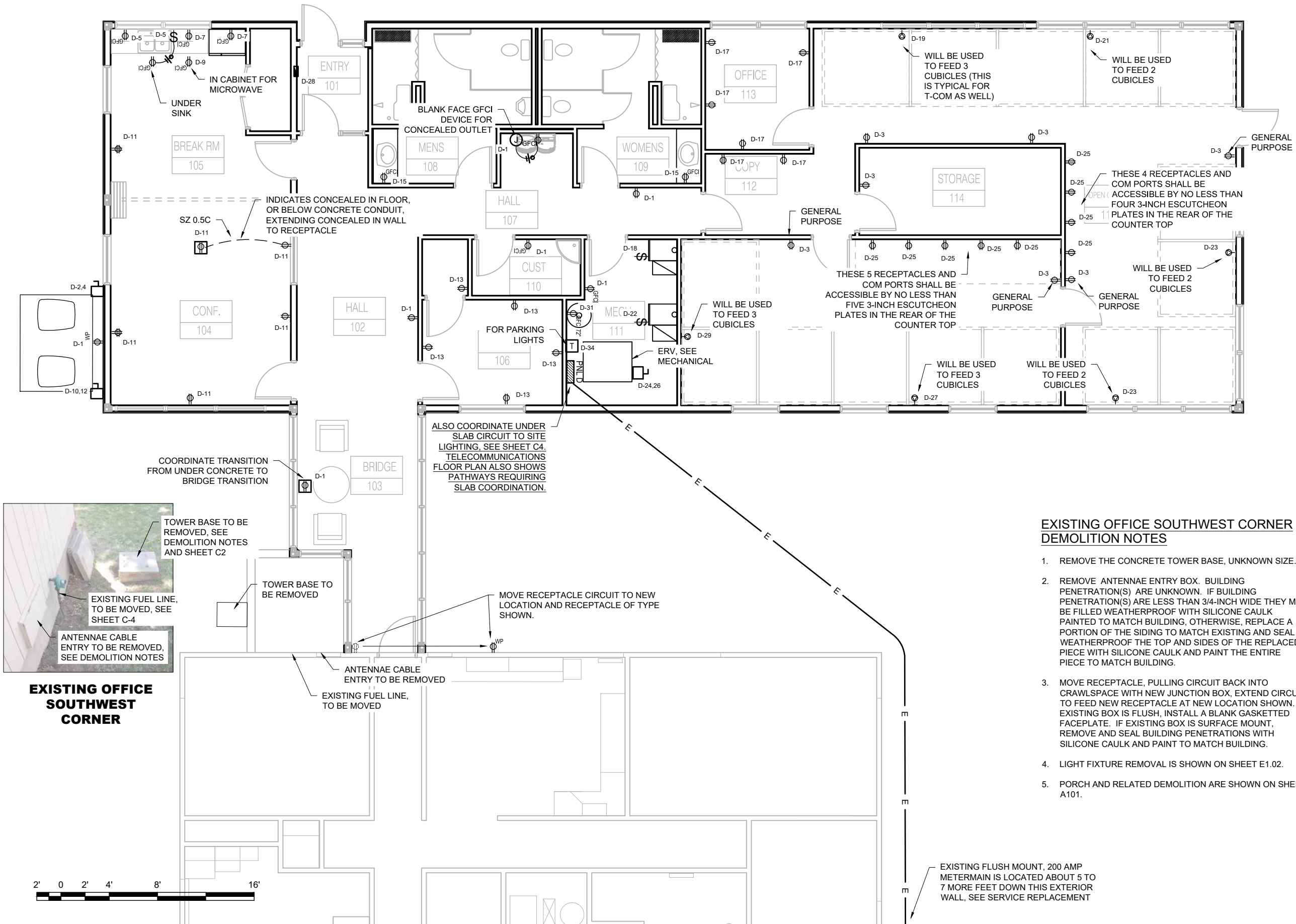
FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

PANEL SCHEDULES AND LIGHT POLE DETAIL

DATE	ARCHIVE NO.	
DESIGNER S.BROWN	DRAWING SHEET NO. E0.02	
DRAWN S.BROWN		
CHECKED D.JEPPSEN		
PROJECT NO.	SHEET 116 OF 119	

11/15/18 09:47 SABROWN X:\ASHLEY\FLAMINGGORGERANGERDISTRICT.ADDITION.2017DWG\MANILA.ADDITION\EC.DWG;



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Freed

11/29/18		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER
DISTRICT OFFICE
ADDITION

ASHLEY
NATIONAL FOREST

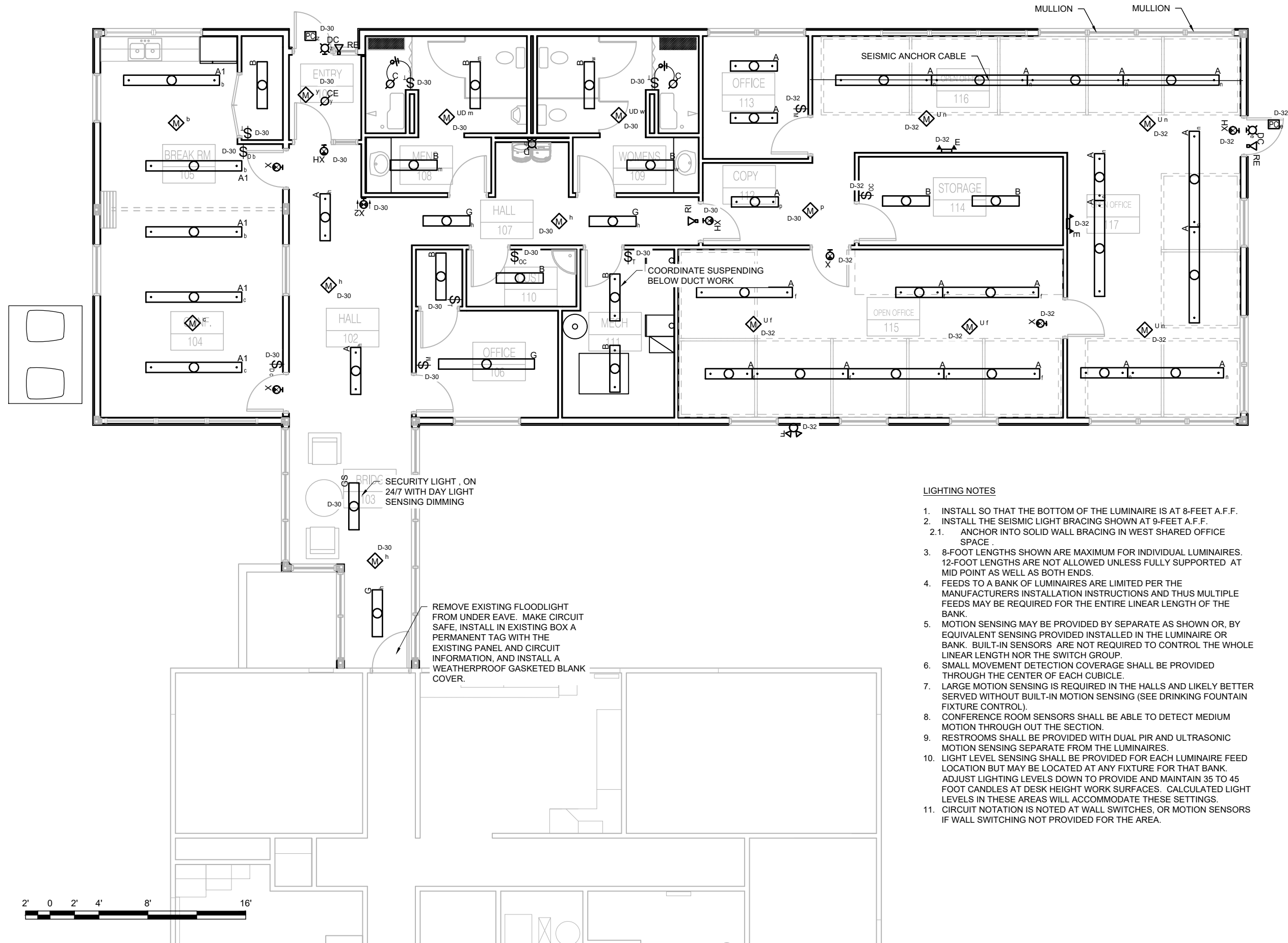
FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

POWER AND
RECEPTACLE FLOOR
PLAN

DATE	ARCHIVE NO.
DESIGNER S.BROWN	DRAWING SHEET NO. E1.01
DRAWN S.BROWN	
CHECKED D.JEPPSEN	
PROJECT NO.	SHEET 117 OF 119

11/15/18 09:47 SABROWN X:\ASHLEY\FLAMINGGORGERANGERDISTRICT_ADDITION.2017DWG\MANILA\ADDITION\EC.DWG;



LIGHTING NOTES

1. INSTALL SO THAT THE BOTTOM OF THE LUMINAIRE IS AT 8-FEET A.F.F.
2. INSTALL THE SEISMIC LIGHT BRACING SHOWN AT 9-FEET A.F.F.
 - 2.1. ANCHOR INTO SOLID WALL BRACING IN WEST SHARED OFFICE SPACE.
3. 8-FOOT LENGTHS SHOWN ARE MAXIMUM FOR INDIVIDUAL LUMINAIRES. 12-FOOT LENGTHS ARE NOT ALLOWED UNLESS FULLY SUPPORTED AT MID POINT AS WELL AS BOTH ENDS.
4. FEEDS TO A BANK OF LUMINAIRES ARE LIMITED PER THE MANUFACTURERS INSTALLATION INSTRUCTIONS AND THUS MULTIPLE FEEDS MAY BE REQUIRED FOR THE ENTIRE LINEAR LENGTH OF THE BANK.
5. MOTION SENSING MAY BE PROVIDED BY SEPARATE AS SHOWN OR, BY EQUIVALENT SENSING PROVIDED INSTALLED IN THE LUMINAIRE OR BANK. BUILT-IN SENSORS ARE NOT REQUIRED TO CONTROL THE WHOLE LINEAR LENGTH NOR THE SWITCH GROUP.
6. SMALL MOVEMENT DETECTION COVERAGE SHALL BE PROVIDED THROUGH THE CENTER OF EACH CUBICLE.
7. LARGE MOTION SENSING IS REQUIRED IN THE HALLS AND LIKELY BETTER SERVED WITHOUT BUILT-IN MOTION SENSING (SEE DRINKING FOUNTAIN FIXTURE CONTROL).
8. CONFERENCE ROOM SENSORS SHALL BE ABLE TO DETECT MEDIUM MOTION THROUGH OUT THE SECTION.
9. RESTROOMS SHALL BE PROVIDED WITH DUAL PIR AND ULTRASONIC MOTION SENSING SEPARATE FROM THE LUMINAIRES.
10. LIGHT LEVEL SENSING SHALL BE PROVIDED FOR EACH LUMINAIRE FEED LOCATION BUT MAY BE LOCATED AT ANY FIXTURE FOR THAT BANK. ADJUST LIGHTING LEVELS DOWN TO PROVIDE AND MAINTAIN 35 TO 45 FOOT CANDLES AT DESK HEIGHT WORK SURFACES. CALCULATED LIGHT LEVELS IN THESE AREAS WILL ACCOMMODATE THESE SETTINGS.
11. CIRCUIT NOTATION IS NOTED AT WALL SWITCHES, OR MOTION SENSORS IF WALL SWITCHING NOT PROVIDED FOR THE AREA.



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Fred

4	11/29/18	
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE RANGER DISTRICT OFFICE ADDITION

ASHLEY
NATIONAL FOREST

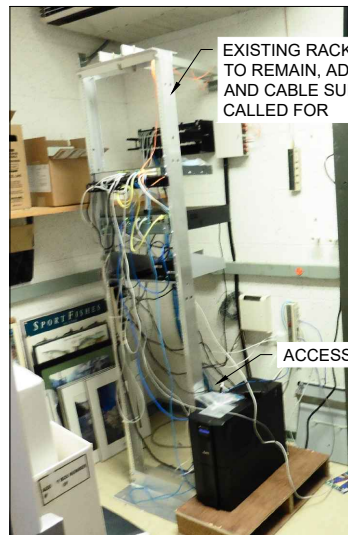
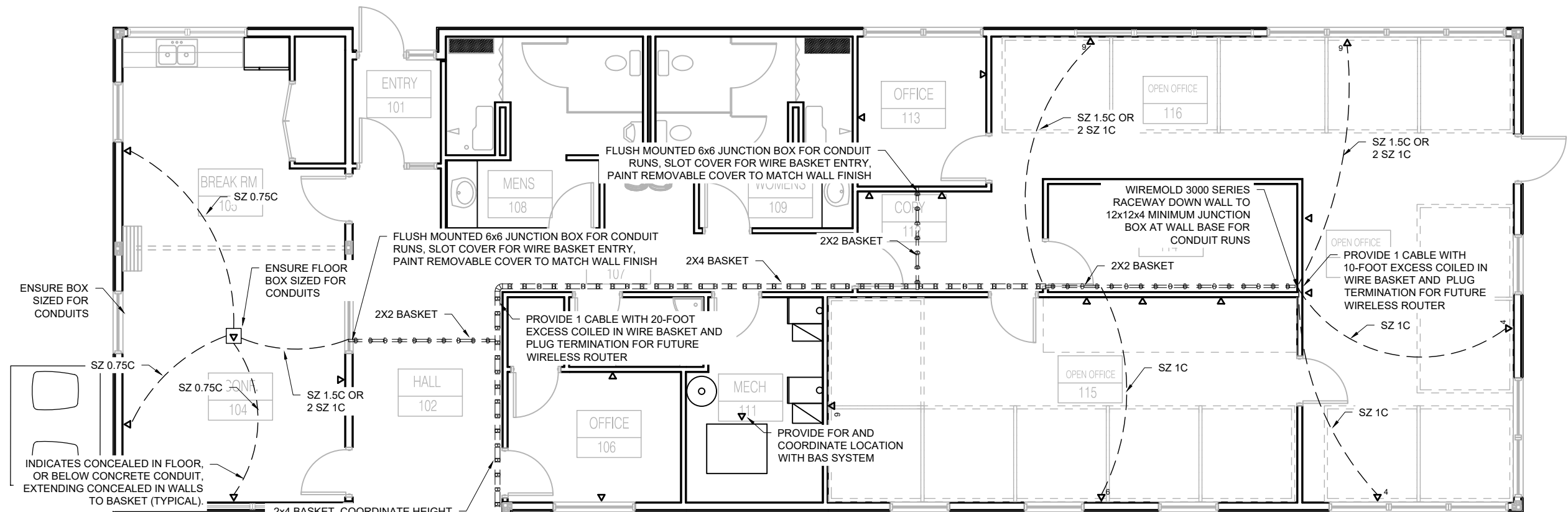
FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

LIGHTING FLOOR PLAN

DATE	ARCHIVE NO.
DESIGNER S.BROWN	DRAWING SHEET NO. E1.02
DRAWN S.BROWN	
CHECKED D.JEPPSEN	
PROJECT NO.	SHEET 118 OF 119

11/15/18 09:47 SABROWN X:\ASHLEY\FLAMINGGORGERANGERDISTRICT.ADDITION.2017DWG\MANUAL\ADDITIONELEC.DWG;



RACK IN COMMUNICATIONS ROOM

TELECOM CONDUIT FOR DROPS/RISERS INITIAL SIZING

0.5C	-	NOT ALLOWED
0.75C	-	UP TO 2 CABLES
1C	-	UP TO 4 CABLES
1.5C	-	UP TO 10 CABLES
2C	-	UP TO 20 CABLES
4C	-	UP TO 60 CABLES

SIZES ARE IN INCHES.

DRAWINGS MAY GRANT ADDITIONAL CABLES AT SPECIFIED LOCATIONS.

DAMAGED COM CABLE DEMOLITION AND INSTALLATION NOTES

A DAMAGED COM CABLE EXISTS THAT RUNS FROM THE COMMUNICATIONS ROOM IN THE EXISTING BUILDING OUT TO THE WAREHOUSE YARD, ALSO SEE SHEET C3 ITEMS 30-33. IT IS BURIED ABOUT 6-8 INCHES AND WILL BE HIT AGAIN DURING ROAD CONSTRUCTION. THIS CABLE EITHER ENTERS THE EXISTING OFFICE ON THE SOUTH SIDE OF THE BUILDING, OR CONTINUES THROUGH THE NEW SWELL AREA TO ENTER THE BUILDING AT THE COMMUNICATIONS ROOM. THE CABLE IS THOUGHT TO BE 50 PAIR COPPER OSP, CATEGORY 3; BETTER CABLE IS NOT REQUIRED BUT ALLOWED.

1. LOCATE THE CABLE AND EXISTING ROUTE. LOCATE A LOCATION ACCEPTABLE TO THE CONTRACTING OFFICER FOR INTERCEPTING THE EXISTING CABLE ON THE SOUTH SIDE OF THE CONSTRUCTION AREA AND INSTALL A GRADE LEVEL, TIER 3, HANDHOLE LEAVING A MINIMUM OF 48-INCH, UNDAUNAGED PIGTAIL OF CABLE EXTENDING ON TO WAREHOUSE YARD, SEE SHEETS C2 AND C3. REMOVE AND REPLACE THE REST OF THE CABLE BACK TO THE OFFICE BUILDING COMMUNICATIONS ROOM, BURYING 24-INCHES MINIMUM IN 2-INCH PVC CONDUIT WHEN EXTERIOR TO BUILDING AND CRAWL SPACE, SCHEDULE 80 REQUIRED ON EXTERIOR ABOVE GRADE.
2. CAREFULLY NOTE ALL SPLICE CONNECTIONS WITHIN THE COMMUNICATIONS ROOM AND AT THE HANDHOLE AND RECONNECT EXACTLY MATCHING PAIRS AND ENDS OF ALL PAIRS. VERIFY CONNECTIONS. ALL SPLICES IN HANDHOLE SHALL BE RATED FOR DIRECT BURIAL. ALL SPLICES IN COMMUNICATIONS ROOM SHALL BE NON-REVERSIBLE (PERMANENT).
3. PROVIDE AS-BUILT FOR NEW CABLE LOCATION.

ADDITIONAL TELECOM INSTALLATION NOTES

1. SEE SPECIFICATIONS FOR DROP TO WORKSTATION OUTLET, RACEWAY, AND CABLE REQUIREMENTS. OPEN CABLING IS NOT ALLOWED CONCEALED IN WALLS, CEILINGS OR SIMILAR LOCATIONS EXCEPT AS NOTED IN OLD BUILDING CRAWL SPACE.
2. SURFACE MOUNT RACEWAYS AND CONDUITS ALLOWED ONLY WHERE INDICATED.
3. STUB-UPS FROM BELOW FLOOR IN THIS LOCATION SHALL BE TERMINATED WHERE SHOWN OR CONCEALED IN WALL TO A STUB-OUT AT THE WIRE BASKET.
4. DEVICE BOXES SHALL BE SIZED TO ACCEPT CONDUIT SIZES NOTED.
5. CONDUIT SLEEVE STUB-OUT TERMINATIONS SHALL BE PROTECTED WITH BUSHINGS. JUNCTION BOX COVER SLOTS SHALL BE BURR FREE AND IF IN LIKELY CONTACT WITH EXISTING OR FUTURE CABLES SHALL HAVE EDGE PROTECTION SIMILAR TO PROTECTION PROVIDED BY BUSHING.
6. HALLS 102, 103, AND 107 ARE 1 HOUR FIRE RATED AND PENETRATIONS OF THE WIRE BASKET SHALL BE THROUGH SPECIFIED TECHNOLOGIES INC EZ-PATH SERIES 22 AND 33 PATHWAYS OR EQUAL.
7. NEW PATCH PANEL EITHER ON EXISTING RACK MOUNT BELOW EXISTING EQUIPMENT. PROVIDE CABLE SUPPORTS SYSTEMS PER SPECIFICATIONS FOR NEW PATCH PANEL(S) AND EXISTING RACK (ADD VERTICAL CABLE SUPPORT).



United States Department of Agriculture
Forest Service

REGION 4
INTERMOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

s/s Regina Fred

11/29/18		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

FLAMING GORGE
RANGER
DISTRICT OFFICE
ADDITION

ASHLEY
NATIONAL FOREST

FLAMING GORGE RANGER DISTRICT

DRAWING TITLE

TELECOMMUNICATIONS
FLOOR PLAN

DATE	ARCHIVE NO.
DESIGNER S.BROWN	DRAWING SHEET NO. E1.03
DRAWN S.BROWN	
CHECKED D.JEPPSEN	
PROJECT NO.	SHEET 119 OF 119