

UNITED STATES DEPARTMENT OF AGRICULTURE
FOREST SERVICE

ROCKY MOUNTAIN REGION

WHITE RIVER NATIONAL FOREST

ASPEN-SOPRIS RANGER DISTRICT

GARFIELD COUNTY,
COLORADO

ASPEN-SOPRIS RANGER
DISTRICT OFFICE



I Have Reviewed the Technical Aspects of These Drawings:

TODD MICHAEL

Digitally signed by TODD MICHAEL
Date: 2020.07.13 05:49:11 -06'00'

Project Manager

Date

GREGORY ROSENMERKEL

Digitally signed by GREGORY ROSENMERKEL
Date: 2020.07.27 11:39:52 -06'00'

Forest Engineer

Date

Recommended By:

CHERYL HAZLITT

Digitally signed by CHERYL HAZLITT
Date: 2020.08.04 12:02:03 -06'00'

Engineering/Regional Specialist [CDI MANAGER]

Date

These drawings comply with the Forest Plan and project
specific NEPA documentation.

SCOTT FITZWILLIAMS

Digitally signed by SCOTT FITZWILLIAMS
Date: 2020.07.27 12:14:38 -06'00'

Forest Supervisor

Date

Approved By:

DOUGLAS WISE

Digitally signed by DOUGLAS WISE
Date: 2020.08.04 15:03:17 -06'00'

Regional Engineer

Date



UNITED STATES
DEPARTMENT OF AGRICULTURE

FOREST SERVICE

R2

ROCKY MOUNTAIN
REGION

STAMPS, LOGOS, AND
SEALS



△		
△		
△		
NO:	ISSUED FOR:	DATE:

PROJECT NAME

**ASPEN-SOPRIS
RANGER DISTRICT
OFFICE**

CA PROJECT # 1402.14

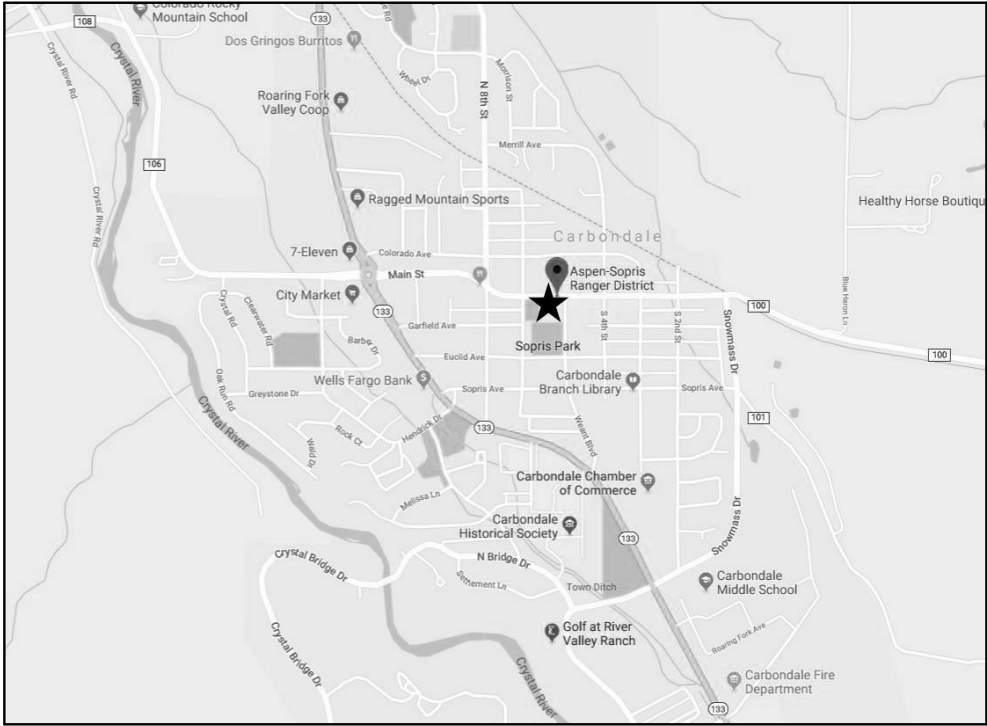
ASPEN / SOPRIS RANGER DISTRICT

DRAWING TITLE

TITLE SHEET

ARCHIVE
NO. 100% CONSTRUCTION DOCUMENTS

DESIGNER ENM	SUB SHEET NO. G001
CHECKED DGG	
DATE 7/9/2020	
SHEET 1 OF 119	



PROJECT LOCATION



PROJECT ADDRESS

620 MAIN STREET
CARBONDALE, COLORADO 81623

TRAVEL DIRECTIONS

EXIT I-70 IN GLENWOOD SPRINGS TO CO-82 EAST TOWARD ASPEN.
IN 11.7 MILES TURN RIGHT ON CO-133 SOUTH FOR 1 MILE.
AT THE TRAFFIC CIRCLE TAKE THE 3RD EXIT EAST ONTO MAIN ST AND TRAVEL 0.5 MILES.

ASPEN - SOPRIS RANGER DISTRICT OFFICE

CARBONDALE, COLORADO



UNITED STATES
DEPARTMENT OF AGRICULTURE
FOREST SERVICE

R2

ROCKY MOUNTAIN REGION

STAMPS, LOGOS, AND SEALS



NO:	ISSUED FOR:	DATE:
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PROJECT NAME

**ASPEN-SOPRIS
RANGER DISTRICT
OFFICE**

ASPEN / SOPRIS RANGER DISTRICT

DRAWING TITLE

DRAWING LIST AND DESIGN TEAM

ARCHIVE
NO. 100% CONSTRUCTION DOCUMENTS

DESIGNER SH	SUB SHEET NO. G002
CHECKED ET	
DATE 7/9/2020	SHEET 2 OF 119

DRAWING LIST

GENERAL	
G001	TITLE SHEET
G002	DRAWING LIST AND DESIGN TEAM

CIVIL	
C001	NOTES
C002	NOTES
C050	EXISTING CONDITIONS PLAN
C100	DEMOLITION PLAN
C150	SITE PLAN
C200	GRADING PLAN
C201	ENLARGED GRADING DETAILS
C300	UTILITY PLAN
C301	SANITARY PROFILES
C302	WATER PROFILES
C303	WATER PROFILES
C400	CONSTRUCTION LIMITS AND ACCESS PLAN
C401	EROSION CONTROL PLAN
C402	EROSION CONTROL DETAILS
C403	EROSION CONTROL DETAILS
C500	PAVING PLAN
C501	HORIZONTAL CONTROL PLAN
C600	TOWN OF CARBONDALE DETAILS
C601	TOWN OF CARBONDALE DETAILS
C602	TOWN OF CARBONDALE DETAILS
C603	TOWN OF CARBONDALE DETAILS
C604	SITE DETAILS
C605	SITE DETAILS

LANDSCAPE	
L001	GENERAL INFORMATION
L101	SITE PLANT PROTECTION AND REMOVAL PLAN
L301	SITE MATERIALS PLAN
L401	SITE JOINTING PLAN
L701	SITE DETAILS
L702	SITE DETAILS
L703	SITE DETAILS
L801	SITE PLANTING PLAN
L901	SITE PLANTING DETAILS

OWNER

UNITED STATES DEPARTMENT OF AGRICULTURE
FOREST SERVICE - REGION 2
1617 Cole Blvd.
Lakewood, CO 80401

WHITE RIVER NATIONAL FOREST
Supervisors Office:
900 Grand Avenue
Glenwood Springs, CO 81601

ARCHITECTURAL	
A001	NOTES, SYMBOLS, ABBREVIATIONS AND WALL TYPES
A002	CODE CHECKLIST & LIFE SAFETY PLAN
A011	ARCHITECTURAL SITE PLAN
A012	SITE DETAILS
A101	FLOOR PLAN
A121	REFLECTED CEILING PLAN
A141	LOWER ROOF PLAN
A142	UPPER ROOF PLAN
A161	INTERIOR FINISH PLAN
A171	FURNITURE PLAN (REFERENCE ONLY)
A201	EXTERIOR ELEVATIONS
A202	EXTERIOR PERSPECTIVE VIEWS (REFERENCE ONLY)
A301	ENLARGED FLOOR PLANS
A401	INTERIOR ELEVATIONS
A402	INTERIOR ELEVATIONS
A403	INTERIOR ELEVATIONS
A404	INTERIOR ELEVATIONS
A405	INTERIOR ELEVATIONS
A406	INTERIOR ELEVATIONS
A501	BUILDING SECTIONS
A511	WALL SECTIONS
A601	ARCHITECTURAL DETAILS
A602	ARCHITECTURAL DETAILS
A621	CASEWORK & INTERIOR DETAILS
A622	CASEWORK & INTERIOR DETAILS
A623	CASEWORK & INTERIOR DETAILS
A624	CASEWORK & INTERIOR DETAILS
A641	ROOF DETAILS
A701	DOOR TYPES, SCHEDULE & DETAILS
A721	WINDOW TYPES AND DETAILS
A722	WINDOW DETAILS
A741	COLOR SCHEDULE

DESIGN TEAM

ARCHITECT:
CHAMBERLIN ARCHITECTS
437 Main Street
Grand Junction, CO 81501
(970) 242-6804

CIVIL:
MARTIN / MARTIN CONSULTING ENGINEERS
12499 West Colfax Avenue
Lakewood, CO 80215
(303) 431-6100

STRUCTURAL	
S001	NOTES
S002	NOTES
S003	NOTES
S010	QUALITY ASSURANCE
S011	QUALITY ASSURANCE
S020	LOW ROOF SNOW LOAD MAP
S101	FOUNDATION PLAN
S102	LOWER ROOF PLAN
S103	UPPER ROOF PLAN
S210	BRACE ELEVATIONS
S300	TYPICAL CONCRETE DETAILS
S301	SLAB-ON-GRADE DETAILS
S302	FOUNDATION DETAILS
S303	FOUNDATION DETAILS
S500	TYPICAL STEEL DETAILS
S501	CONCRETE & MASONRY TO STEEL DETAILS
S510	ROOF STEEL DETAILS
S511	ROOF STEEL DETAILS
S512	ROOF STEEL DETAILS
S520	ROOF DECK DETAILS
S530	BRACED FRAME DETAILS
S540	CANOPY DETAILS
S560	CF FRAMING DETAILS
S561	CF FRAMING DETAILS

MECHANICAL	
M000	MECHANICAL LEGEND
M101	FIRST FLOOR HVAC PLAN
M201	ROOF HVAC PLAN
M401	MECHANICAL SCHEDULES
M403	MECHANICAL SCHEDULES & DETAILS
M501	MECHANICAL DETAILS & SCHEDULES

PLUMBING	
P101	PLUMBING FIRST FLOOR PLAN
P201	ROOF PLUMBING PLAN
P401	PLUMBING DETAILS
P402	PLUMBING SCHEDULES

E000	ELECTRICAL LEGEND
E001	ELECTRICAL ONE-LINE DIAGRAM
E100	ELECTRICAL SITE PLAN
E101	FIRST FLOOR ELECTRICAL PLAN
E121	FIRST FLOOR LIGHTING PLAN
E122	EXTERIOR CLERESTORY LIGHTING
E123	ROOF ELECTRICAL PLAN
E300	ELECTRICAL SCHEDULES
E301	ELECTRICAL SCHEDULES
E302	ELECTRICAL SCHEDULES
E303	ELECTRICAL DETAILS
E304	ELECTRICAL DETAILS

TELECOMMUNICATIONS	
T001	TECHNOLOGY NOTES
T002	TECHNOLOGY SITE PLAN
T003	TECHNOLOGY FLOOR PLAN
T004	TECHNOLOGY IT ROOM DETAIL AND ELEVATION
T005	TECHNOLOGY IT ROOM DETAILS
T006	TECHNOLOGY RISER DIAGRAM AND DETAIL
T007	TECHNOLOGY DETAILS

LANDSCAPE:

DESIGN WORKSHOP
120 East Main Street
Aspen, CO 81611
(970) 399-1412

MECHANICAL / ELECTRICAL:

RMH GROUP
12600 West Colfax Avenue, Suite A-400
Lakewood, CO 80215
(303) 239-9123

STRUCTURAL:

MARTIN / MARTIN CONSULTING ENGINEERS
101 Fawcett Road, Suite 260
Avon, CO 81620
(970) 926-6007

TELECOMMUNICATIONS

TECHNOLOGY PLUS, INC.
2323 South Troy Street
Aurora, CO 80014
(303) 340-8228

ABBREVIATIONS:

APPROX	APPROXIMATE
ARCH	ARCHITECT
BLDG	BUILDING
BM	BENCHMARK
BMP	BEST MANAGEMENT PRACTICES
BOC	BACK OF CURB
CIP	CAST IRON PIPE
CL	CENTERLINE
CO	CLEANOUT
CONC	CONCRETE
DEMO	DEMOLITION
DIA OR Ø	DIAMETER
DIM	DIMENSION
DIP	DUCTILE IRON PIPE
EL	ELEVATION
ELEC	ELECTRICAL
EX	EXISTING
FDC	FIRE DEPARTMENT CONNECTION
FFE	FINISHED FLOOR ELEVATION
FL	FLOW LINE
FT	FOOT
GB	GRADE BREAK
GR	GRATE (AREA OR VALLEY INLETS)
INV	INVERT
LF	LINEAL FEET
MAX	MAXIMUM
MECH	MECHANICAL
MEP	MECHANICAL, ELECTRICAL AND PLUMBING
MH	MANHOLE
MIN	MINIMUM
NTS	NOT TO SCALE
PL	PROPERTY LINE
PRKG	PARKING
PROP	PROPOSED
PVC	POLYVINYL CHLORIDE PIPE
PVMT	PAVEMENT
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
R.O.W.	RIGHT OF WAY
SSWR	SANITARY SEWER
SF	SQUARE FOOT
STRM	STORM SEWER
TELE	TELEPHONE
TB	THRUST BLOCK
TEMP	TEMPORARY
TOC	TOP OF CURB
TYP	TYPICAL
UG	UNDERGROUND
VERT	VERTICAL

LEGEND

<i>EXISTING</i>	NEW
PROPERTY LINE	
CURB & GUTTER	
CURB & GUTTER (SPILL)	
CURB & GUTTER (CATCH)	
CONTOURS	
UTILITY CROSSING	
DOWN SPOUT DRAIN	
STORM INLET	
SANITARY SEWER	
SANITARY MANHOLE	
CLEAN OUT	
WATER LINE	
WATER VALVE	
FIRE HYDRANT	
WATER METER	
IRRIGATION CONTROL	
ELECTRIC LINE	
LIGHT POLE	
POWER POLE	
ELECTRIC METER	
TELEPHONE LINE	
TELEPHONE PEDESTAL	
GAS LINE	
GAS METER	
SIGN	
DIRECTION OF FLOW	
GRADING ARROW	
DECIDUOUS TREE	
EVERGREEN TREE	
SPOT ELEVATIONS	
DESCRIPTIONS	
LIMITS OF CONSTRUCTION	
DRIVE	

GENERAL NOTES:

- ALL MATERIALS, CONSTRUCTION, TESTING, AND INSPECTION SHALL BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
- THE CONTRACTOR SHALL HAVE AT LEAST ONE [1] SIGNED COPY OF APPROVED PLANS AND ONE [1] COPY OF THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS ON THE JOB SITE AT ALL TIMES.
- ALL SAFETY CONDITIONS ON THE JOB SITE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- A TRAFFIC CONTROL PLAN SHALL BE SUBMITTED BY THE CONTRACTOR TO THE CONTRACTING OFFICER IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. WORK WITHIN THE PUBLIC RIGHT-OF-WAY MAY REQUIRE ADDITIONAL REQUIREMENTS BY LOCAL JURISDICTION THAT SHALL BE COORDINATED THROUGH THE CONTRACTING OFFICER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL UTILITIES DURING CONSTRUCTION AND FOR COORDINATING WITH THE APPROPRIATE UTILITY COMPANY FOR ANY UTILITY CROSSINGS REQUIRED. REPAIR OF DAMAGED UTILITIES SHALL BE AT THE CONTRACTORS EXPENSE, INCLUDING BUT NOT LIMITED TO UNKNOWN UNDERGROUND UTILITIES.
- EXISTING FENCES, TREES, SIDEWALKS, CURBS AND GUTTERS, LANDSCAPING, STRUCTURES, AND IMPROVEMENTS DESTROYED, DAMAGED OR REMOVED DUE TO CONSTRUCTION OF THIS PROJECT SHALL BE REPLACED OR RESTORED IN KIND AT THE CONTRACTOR'S EXPENSE, UNLESS OTHERWISE INDICATED ON THESE PLANS.
- THE CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATING AND VERIFYING ELEVATIONS OF ALL EXISTING SEWER MAINS, WATER MAINS, CURBS, GUTTERS, SIDEWALKS, AND OTHER UTILITIES AT THE POINT OF CONNECTION SHOWN ON THE PLANS, AND AT ANY UTILITY CROSSINGS PRIOR TO INSTALLING ANY OF THE NEW IMPROVEMENTS. IF A CONFLICT EXISTS AND/OR A DESIGN MODIFICATION IS REQUIRED, THE CONTRACTOR SHALL COORDINATE WITH THE CONTRACTING OFFICER TO MODIFY THE DESIGN.
- PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION, THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES TO COORDINATE SCHEDULES AND MODIFICATIONS TO OR RELOCATION OF THEIR RESPECTIVE UTILITY.
- CONTRACTOR SHALL NOTIFY ALL AFFECTED BUSINESSES/RESIDENTS IN WRITING 48 HOURS PRIOR TO ANY SHUT-OFF IN SERVICE. THE NOTICES MUST HAVE CONTRACTOR'S PHONE NUMBER AND NAME OF CONTACT PERSON, AND EMERGENCY PHONE NUMBER FOR AFTER HOURS CALLS. ALL SHUT OFFS MUST BE COORDINATED THROUGH THE CONTRACTING OFFICER.
- ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY, INCLUDING CORRECTION WORK, SHALL BE COORDINATED FOR INSPECTION WITH THE CONTRACTING OFFICER.
- THE DESIGN PLANS SHOWN HEREIN WERE DEVELOPED BASED UPON THE GEOTECHNICAL INVESTIGATIONS/ANALYSIS/ENGINEERING CRITERIA DEVELOPED BY TERRACON CONSULTANTS, INC., AS PRESENTED IN THE GEOTECHNICAL REPORT ENTITLED "PROPOSED ASPEN-SOPRIS DISTRICT OFFICE & WORK COMPOUND SITE DEVELOPMENT CARBONDALE SITE", DATED JUNE 29, 2018, SIGNED AND SEALED BY WILLIAM D. RETHAMEL, P.E. MARTIN/MARTIN, INC. RELIED UPON THE ENGINEERING ANALYSIS AND CONCLUSIONS OF THIS REPORT IN THE PREPARATION OF THESE CIVIL ENGINEERING PLANS AND DOCUMENTS. NO INDEPENDENT INVESTIGATIONS AND/OR ANALYSIS WAS CONDUCTED BY MARTIN/MARTIN, INC.

DEMOLITION NOTES:

- ABATE ASBESTOS PER THE PROJECT SPECIFICATIONS PRIOR TO COMPLETING ANY DEMOLITION.
- REFER TO PROJECT SPECIFICATIONS FOR ABANDONING OR REMOVAL OF EXISTING SITE FEATURES AND UTILITIES.
- REMOVAL OF ALL GAS, WATER, SEWER, ELECTRIC AND COMMUNICATION LINES SHALL BE COORDINATED AND VERIFIED BY THE CONTRACTOR PRIOR TO DEMOLITION. COORDINATE REMOVAL OF EXISTING TELEPHONE, CABLE AND COMMUNICATION LINE WITH THE UTILITY PROVIDER A MINIMUM OF TWO WEEKS PRIOR TO DEMOLITION ACTIVITIES. COORDINATE ANY DISRUPTIONS IN SERVICE WITH GOVERNMENT AT LEAST 48 HOURS IN ADVANCE. TEMPORARY OR PERMANENT POWER AND GAS MUST BE PROVIDED TO THE WAREHOUSE BUILDING AT ALL TIMES.
- EXISTING TRASH CONTAINERS, BENCHES AND OTHER SITE AMENITIES NOT SHOWN HEREON SHALL BE RETURNED TO THE GOVERNMENT.

HORIZONTAL CONTROL NOTES:

- ALL DIMENSIONS, CURVE DATA AND LINE DATA ARE AT FLOWLINE UNLESS OTHERWISE NOTED.
- ALL CURB AND GUTTER WITHIN PARKING AREA IS SIX INCHES (6") VERTICAL CURB WITH TWO FOOT [2] PAN, UNLESS OTHERWISE NOTED. CURB AND GUTTER SHOWN AS SHALL BE SPILL TYPE. ALL OTHER CURB AND GUTTER SHALL BE CATCH TYPE.
- REFER TO PAVING PLAN FOR PAVEMENT MATERIAL TYPE AND DEPTHS.
- CONTRACTOR TO SUBMIT JOINT PATTERN FOR CONCRETE PAVEMENT, PRIOR TO CONSTRUCTION, FOR APPROVAL. SEE JOINT DETAILS IN PLANS.
- CONTRACTOR TO VERIFY AND COORDINATE DOOR LOCATIONS WITH ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION AND NOTIFY CONTRACTING OFFICER OF ANY DISCREPANCY.
- REFER TO ELECTRICAL PLANS FOR SITE LIGHTING POLE LOCATIONS. COORDINATE ANY DISCREPANCIES WITH CONTRACTING OFFICER PRIOR TO INSTALLATION OF POLE BASES. ROUTING OF ELECTRICAL DISTRIBUTION AND SERVICE LINES, BOTH TEMPORARY AND PERMANENT, SHALL ALSO BE AS SHOWN ON THE ELECTRICAL PLANS. LOCATIONS SHOWN ON SHEET C300 ARE DIAGRAMMATIC FOR REFERENCE ONLY.



UNITED STATES
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R2
ROCKY MOUNTAIN
REGION

STAMPS, LOGOS, AND SEALS



NO.	REVISION / ISSUE	DATE

PROJECT NAME

ASPEN-SOPRIS
RANGER DISTRICT
OFFICE

ASPEN / SOPRIS RANGER DISTRICT

DRAWING TITLE

NOTES

ARCHIVE NO.

DESIGNER TFS	SUB SHEET NO. C001
CHECKED DCW	
DATE 07/09/20	SHEET 3 OF 119

GRADING NOTES:

EXISTING UTILITIES DEPICTED HEREON, DO NOT COMPLY WITH ASCE 38 UTILITY LOCATE STANDARD QUALITY LEVEL A OR B, UNLESS A SEPARATE PLAN SHEET ENTITLED "ASCE 38 UTILITY QUALITY LEVEL B PLAN (A&B)", STAMPED BY A COLORADO PE, IS INCLUDED IN THE PLAN SET. THE UTILITY LOCATES SHOWN HEREON REPRESENT ASCE QUALITY LEVEL D, THUS THE CONTRACTOR IS REQUIRED TO VERIFY THE ACTUAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL COMPLY WITH ALL THE PROVISIONS OF C.R.S. TITLE 9 THAT REQUIRE NOTIFICATION OF THE NOTIFICATION ASSOCIATION AND COMPLIANCE WITH CURRENT 811 PROGRAM REQUIREMENTS.

1.

THE CONTRACTOR SHALL REFERENCE THE LATEST GEOTECHNICAL INVESTIGATION FOR THIS PROPERTY PREPARED BY TERRACON CONSULTANTS, INC. ENTITLED "PROPOSED ASPEN-SOPRIS DISTRICT OFFICE & WORK COMPOUND SITE DEVELOPMENT - CARBONDALE SITE", DATED JUNE 29, 2018, FOR PAVEMENT DESIGN AND RECOMMENDATIONS REGARDING EXCAVATION, COMPACTION, MATERIALS, EMBANKMENT, PAVEMENT SUBEXCAVATION, MOISTURE CONTROL, AND TOPSOIL REMOVAL AND REPLACEMENT. THE CONSTRUCTION METHODS FOR EXCAVATION/EMBANKMENTS, COMPACTION, AND SUBGRADE PREPARATION SHALL BE IN STRICT CONFORMANCE WITH THE GEOTECHNICAL REPORT AND PROJECT SPECIFICATIONS. THE CONTRACTING OFFICER SHALL BE NOTIFIED IMMEDIATELY OF DISCREPANCIES BETWEEN THE GEOTECHNICAL REPORT RECOMMENDATIONS AND REQUIREMENTS OF THESE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS.
2.

ALL NEWLY CONSTRUCTED OR ALTERATIONS OF ACCESSIBILITY ROUTES (WALKS, RAMPS, ENTRANCES, ETC.) SHALL COMPLY WITH THE RULES AND REGULATIONS SET FORTH BY ADA, ADAAG, OR FEDERAL GUIDELINES, INCLUDING BUT NOT LIMITED TO: 5% MAXIMUM GRADE ON WALKS WITHOUT HANDRAILS, 8.33% MAXIMUM GRADE ON WALKS WITH HANDRAILS AND LEVEL LANDINGS (MAXIMUM 2% COMPOSITE SLOPE), 2% MAXIMUM CROSS SLOPE ON WALKS AND 2% MAXIMUM COMPOSITE SLOPE IN HANDICAP PARKING/LOADING AREAS. DURING CONSTRUCTION, CONTRACTOR SHALL COORDINATE AS NECESSARY WITH THE CONTRACTING OFFICER IF RULES AND REGULATIONS OF ACCESSIBILITY ROUTES CANNOT BE MET.
3.

IT IS THE INTENTION OF THE PROJECT GRADING PLANS TO BE IN STRICT COMPLIANCE WITH, AND OR EXCEED, THE PROJECT'S GEOTECHNICAL ENGINEER'S GRADING RECOMMENDATIONS. IF THE CONTRACTOR BELIEVES A DEVIATION EXISTS BETWEEN THE PLANS AND THE GEOTECHNICAL RECOMMENDATION, THE CONTRACTOR SHALL NOTIFY THE CONTRACTING OFFICER IMMEDIATELY AND REQUEST WRITTEN CLARIFICATION PRIOR TO PROCEEDING WITH WORK. THE GENERAL CONSTRUCTION SPECIFICATION IS THAT THE MOST RESTRICTIVE REQUIREMENT/RECOMMENDATION GOVERNS THE CONSTRUCTION OF THE PROJECT.
4.

GRADING SHOWN HEREON IS DESIGNED TO ADDRESS PROPER DRAINAGE CONSIDERATIONS FOR THE PROTECTION OF THE STRUCTURES AND IMPROVEMENTS WITHIN THE PROJECT. THE COORDINATION OF THIS DESIGN AND COMPLIANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATION WITH THE LANDSCAPE ARCHITECT'S DESIGN, IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE VERIFIED PRIOR OT THE START OF CONSTRUCTION.
5.

EXISTING ELEVATIONS SHOWN ON THIS DRAWING HAVE BEEN DEPICTED FROM BEST AVAILABLE INFORMATION AND ARE SHOWN TO THE EXTENT KNOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY EXISTING GRADE CONDITIONS AT THE LIMITS OF CONSTRUCTION AND AT LOCATIONS THAT INTERFACE WITH EXISTING OR PROPOSED STRUCTURES AND NOTIFY THE CONTRACTING OFFICER OF ANY DISCREPANCIES THAT CONTRADICT THE DESIGN INTENT FOR DRAINAGE PATTERNS, MAXIMUM AND MINIMUM SLOPES, AND PROPOSED ELEVATIONS AS SHOWN ON THE PLAN. CONTRACTOR IS RESPONSIBLE TO NOTIFY THE CONTRACTING OFFICER IN ADVANCE OF CONSTRUCTION TO ANY CHANGES IN DESIGN.
6.

PROPOSED CONTOURS AND SPOT ELEVATIONS AS SHOWN HEREIN ARE DEFINED AS FINISHED ELEVATION AFTER PAVING, LANDSCAPING, ETC. CONTRACTOR SHALL COORDINATE WITH LANDSCAPE FOR THICKNESS OF TOPSOIL, SOD AND LANDSCAPE MATERIALS. ALL SPOTS ARE TO FLOWLINE UNLESS OTHERWISE NOTED.
7.

TEMPORARY CUT/FILL SLOPES SHALL NOT EXCEED A STEEPNESS OF 1:1 (H:V). PERMANENT SLOPES SHALL NOT EXCEED [4:1] (H:V) IN AREAS TO BE SEEDED OR SODDED.
8.

CONTRACTOR SHALL ADJUST ALL EXISTING AND PROPOSED UTILITY STRUCTURES, VALVE BOXES, CLEAN OUTS, ETC. TO MATCH FINAL GRADE.
9.

REFER TO FINAL DRAINAGE STUDY DATED 05/15/2020 PREPARED BY MARTIN/MARTIN, INC. FOR DRAINAGE BASINS, FLOWS, AND INTENDED DRAINAGE PATTERNS.

WATER NOTES:

1.

ALL MATERIALS, CONSTRUCTION, TESTING, AND INSPECTION SHALL BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
2.

CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING WATER POINTS OF CONNECTION PRIOR TO CONSTRUCTION OF ANY PROPOSED PIPE.
3.

ALL WATER CONSTRUCTION SHALL BE PERFORMED BY A CONTRACTOR LICENSED IN THE STATE OF COLORADO. THE CONTRACTING OFFICER SHALL BE NOTIFIED [48] HOURS IN ADVANCE OF ANY PLANNED CONSTRUCTION.
4.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO ADJUST ALL WATER VALVE BOXES TO THE REQUIRED FINAL GRADE. IN ADDITION, VALVE EXTENSIONS SHALL BE INSTALLED SUCH THAT A SIX FOOT VALVE KEY CAN OPERATE THE VALVE.
5.

DISTANCES FOR WATER ARE THE HORIZONTAL DISTANCE BETWEEN CENTER OF FITTING TO CENTER OF VALVE, FITTING, ETC. THEREFORE, DISTANCES SHOWN ON THE PLANS ARE APPROXIMATE AND COULD VARY DUE TO VERTICAL ALIGNMENT AND FITTING DIMENSIONS.
6.

FOR ALL PIPE INSTALLATIONS, THE DEPTH OF COVER OVER THE PIPE MEASURED FROM FINISHED GRADE TO THE TOP OF THE PIPE SHALL BE A MINIMUM OF 6 FEET [6'] AND SHALL BE KNOWN AS THE COVER OVER THE PIPE. IF DIFFICULTIES ARISE WHEN CROSSING INTERFERENCE AND WHERE SPECIFICALLY APPROVED BY THE CONTRACTING OFFICER, DEVIATIONS FROM 6 FEET [6'] OF COVER MAY BE PERMITTED.
7.

FIRE HYDRANTS SHALL CONFORM TO PROJECT MATERIALS AND SPECIFICATIONS. FIRE HYDRANT ASSEMBLIES SHALL INCLUDE ALL PIPE, FITTINGS, VALVES, THRUST BLOCKS, RESTRAINTS, AND MATERIALS NECESSARY TO INSTALL THE HYDRANT.
8.

INSTALL THRUST BLOCKS AT ALL BENDS, STUBS AND TEES IN WATER LINES. ALL BLOW-OFFS, VALVES AND BENDS SHALL BE MECHANICALLY RESTRAINED PER PROJECT SPECIFICATIONS AS NOTED OR IF SOIL CONDITIONS ARE UNSTABLE OR AS DIRECTED BY THE CONTRACTING OFFICER.
9.

DISINFECTION AND FLUSHING: ALL WATER PIPES SHALL BE INSTALLED AND DISINFECTED PER PROJECT SPECIFICATIONS.
10.

WHEN IT IS NECESSARY TO LOWER OR RAISE WATER LINES AT SEWER LINES AND OTHER UTILITY CROSSINGS, A MINIMUM CLEARANCE OF EIGHTEEN INCHES [18"] SHALL BE MAINTAINED BETWEEN THE OUTSIDE OF PIPES.
11.

PRIOR TO INSTALLATION OF WATER PIPING, CONSTRUCTION MUST HAVE PROGRESSED TO AT LEAST THE "SUB-GRADE" STATE.
12.

THE WATER QUALITY CONTROL DIVISION OF THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT [CDPHE] REQUIRES ALL WATER LINE CONTRACTORS TO POSSESS A CURRENT DISCHARGE PERMIT FOR DISCHARGES OF CHLORINATED AND PROCESS WATERS ASSOCIATED WITH THE INSTALLATION OF NEW MAINS OR CONDUITS. CONTACT CDPHE WATER QUALITY CONTROL DIVISION AT 303-692-3517 FOR INFORMATION ON OBTAINING THE REQUIRED PERMIT.
13.

CONTRACTOR TO COORDINATE HORIZONTAL AND VERTICAL LOCATIONS OF UTILITY SERVICE CONNECTIONS TO BUILDING WITH MECHANICAL/PLUMBING PLANS PRIOR TO CONSTRUCTION. NOTIFY CONNECTIONS TO EXISTING SERVICE AT THE WAREHOUSE SHALL BE FIELD VERIFIED PRIOR TO TRENCHING. NOTIFY CONTRACTING OFFICER OF ANY DISCREPANCIES.

SANITARY SEWER NOTES:

1.

ALL MATERIALS, CONSTRUCTION, TESTING, AND INSPECTION SHALL BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
2.

CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING SEWER POINTS OF CONNECTION PRIOR TO CONSTRUCTION OF ANY PROPOSED SEWER. CONNECTIONS TO EXISTING SERVICES AT WAREHOUSE SHALL BE FIELD VERIFIED PRIOR TO TRENCHING.
3.

ALL SANITARY SERVICE CONSTRUCTION SHALL BE DONE BY A CONTRACTOR LICENSED IN COLORADO. THE GOVERNMENT AND CONTRACTING OFFICER SHALL BE NOTIFIED [48] HOURS IN ADVANCE OF ANY PLANNED CONSTRUCTION INCLUDING WORK LOCATED OFF GOVERNMENT PROPERTY.
4.

DISTANCES FOR SANITARY SEWER ARE THE HORIZONTAL DISTANCES FROM CENTER OF MANHOLE TO CENTER OF FITTING. THEREFORE, DISTANCES SHOWN ON PLANS ARE APPROXIMATE AND COULD VARY DUE TO VERTICAL ALIGNMENT AND MANHOLE WIDTHS.
5.

RIM ELEVATIONS SHOWN ARE APPROXIMATE ONLY AND ARE NOT TO BE TAKEN AS FINAL ELEVATIONS. PIPELINE CONTRACTOR SHALL ADJUST ANY CLEAN OUT FRAMES TO THE REQUIRED FINAL GRADE, SUCH THAT THE RIM SHALL BE LEFT 1/8-INCH TO 1/4-INCH BELOW FINISHED ASPHALT.
6.

CONTRACTOR TO COORDINATE HORIZONTAL AND VERTICAL LOCATIONS OF UTILITY SERVICE CONNECTIONS TO BUILDING WITH MECHANICAL/PLUMBING PLANS PRIOR TO CONSTRUCTION. NOTIFY CONTRACTING OFFICER OF ANY DISCREPANCIES.
7.

THE CONNECTION OF A NEW SANITARY SEWER LINE TO AN EXISTING MANHOLE MAY REQUIRE CHANGES IN ELEVATIONS OR MODIFICATION TO EXISTING STRUCTURE. USE OF A PRE-CAST CONCRETE STRUCTURE OR MANHOLE RECONSTRUCTION IS AT THE DISCRETION OF THE GOVERNMENT.
8.

CONTRACTOR SHALL IMMEDIATELY REMOVE DEBRIS DEPOSITED INTO PUBLIC MANHOLES AND OTHER PUBLIC STRUCTURES TO ELIMINATE THE POSSIBILITY OF PROPERTY DAMAGE DUE TO THE DEBRIS CAUSING BACKUP INTO PRIVATE PROPERTIES. IF IT IS DETERMINED THAT DEBRIS CAUSED A BACKUP, THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR DAMAGES.
9.

UNLESS NOTED OTHERWISE ON PLANS, INSTALL FOUR INCH (4") SERVICE LINES AT 0.0310 FT/FT MINIMUM, 0.0600 FT/FT MAXIMUM SLOPE.

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DEPARTMENT OF AGRICULTURE

UNITED STATES
DEPARTMENT OF AGRICULTURE
FOREST SERVICE

R2

ROCKY MOUNTAIN
REGION

STAMPS, LOGOS, AND SEALS

Rocky Mountain Region

CENTER for
DESIGN &
INTERPRETATION

CDI

3

2

1

NO.

REVISION / ISSUE

DATE

PROJECT NAME

ASPEN-SOPRIS
RANGER DISTRICT
OFFICE

ASPEN / SOPRIS RANGER DISTRICT

DRAWING TITLE

NOTES

ARCHIVE NO.

DESIGNER
TFS

CHECKED
DCW

DATE
07/09/20

SUB SHEET NO.

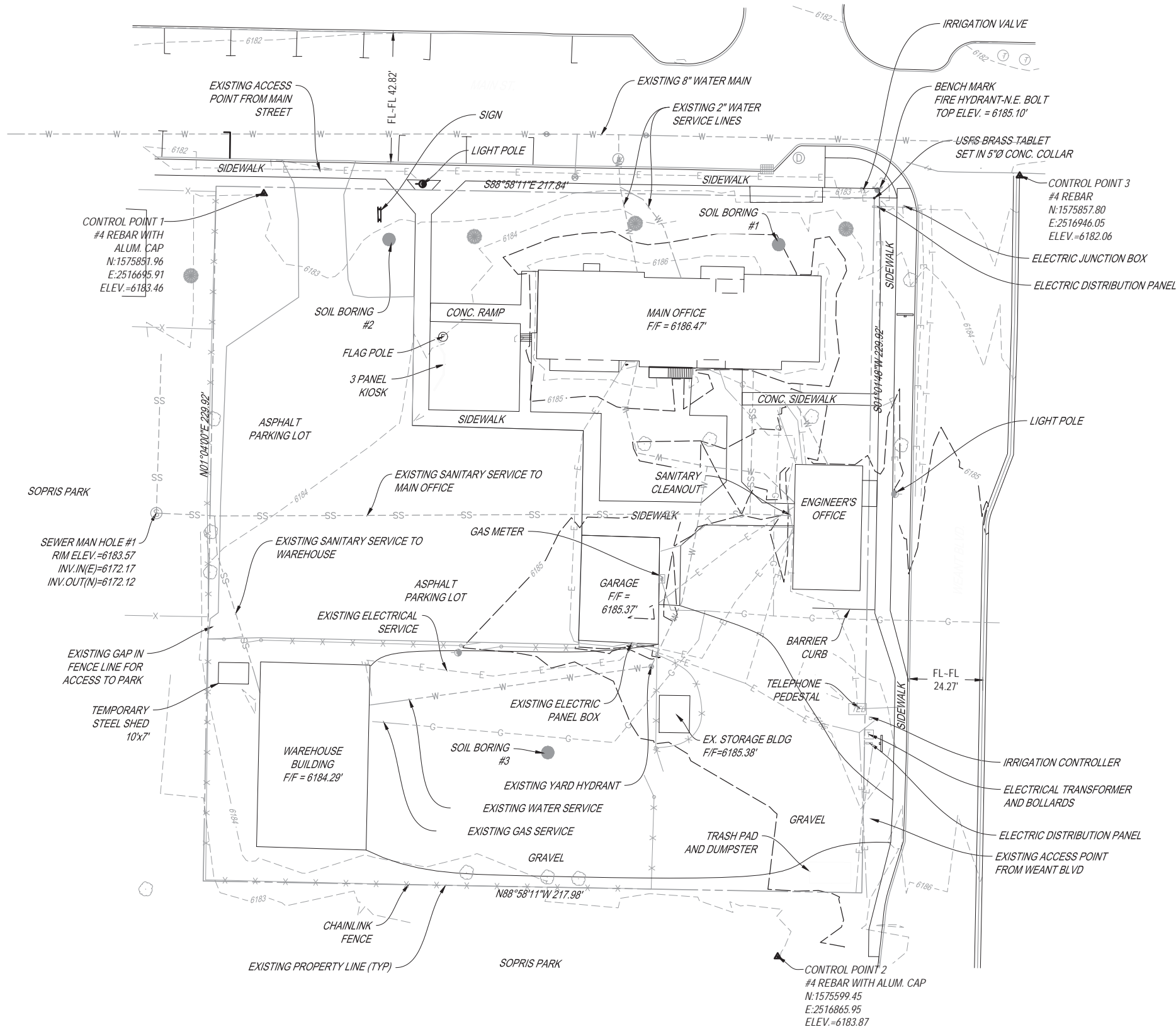
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SHEET
OF

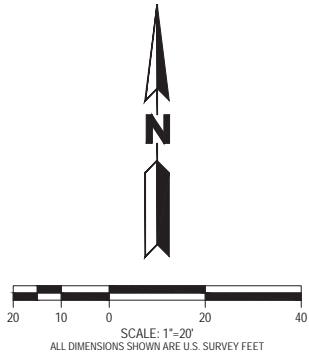
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PLOT DATE: Thursday, July 16, 2020 7:35 PM, LAST SAVED BY: TSOURL0CK
DRAWING LOCATION: G:\Mills\18.0474-Forest Service - Aspen_Sopris Carbondale\PLANS\CD&IC\NOTES.dwg

PLOT DATE: Thursday, July 16, 2020 7:36 PM
LAST SAVED BY: TSCURLLOCK
DRAWING LOCATION: G:\Miss18.0474\Forest Services - Aspen_Sopris\Carbondale\PLANS\CD\CA\EXISTCOND_PLANS.dwg



LEGEND	
	PROPERTY LINE
	CURB & GUTTER
	CONTOURS
	STORM INLET
	SANITARY SEWER
	SANITARY MANHOLE
	WATER LINE
	WATER METER
	FIRE HYDRANT
	WATER VALVE
	ELECTRIC LINE
	LIGHT POLE
	POWER POLE
	ELECTRIC METER
	TRANSFORMER
	TELEPHONE LINE
	TELEPHONE PEDESTAL
	GAS LINE
	GAS METER
	SIGN
	DECIDUOUS TREE
	EVERGREEN TREE
	FLAG POLE
	SOIL BORING LOCATION
	SOIL BORING DESCRIPTIONS



CALL **811** 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG,
GRADE OR EXCAVATE FOR MARKING OF UNDERGROUND MEMBER UTILITIES

MARTINMARTIN ASSUMES NO RESPONSIBILITY FOR UTILITY LOCATIONS. THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM (PROVIDED) ASCE (38) UTILITY QUALITY LEVEL D (Q_U) AVAILABLE INFORMATION. IT IS, HOWEVER, THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY THE SIZE, MATERIAL, HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES (DEPICTED OR NOT DEPICTED) PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.



UNITED STATES
DEPARTMENT OF AGRICULTURE
FOREST SERVICE

R2
ROCKY MOUNTAIN
REGION

STAMPS, LOGOS, AND SEALS



NO.	REVISION / ISSUE	DATE

PROJECT NAME

ASPEN-SOPRIS
RANGER DISTRICT
OFFICE

ASPEN / SOPRIS RANGER DISTRICT

DRAWING TITLE

EXISTING CONDITIONS
PLAN

ARCHIVE NO.

DESIGNER

TFS

CHECKED

DCW

DATE

07/09/20

SUB SHEET NO.

C050

SHEET

OF

119

BENCHMARK:

ELEVATIONS ARE BASED ON NGS BENCHMARK D 156, A 3 1/4" BRASS CAP IN CONCRETE 1.0 MI SE FROM CARBONDALE. 1 MILE SOUTHEAST ALONG THE DENVER AND RIO GRANDE WESTERN RAILROAD FROM THE STATION AT CARBONDALE, GARFIELD COUNTY, 435 FEET EAST OF THE EAST CARBONDALE YARD LIMIT SIGN, 240 FEET EAST OF A ROCK CULVERT FOR A SMALL IRRIGATION DITCH, 125 FEET NORTHWEST OF POLE 3112, 50 FEET SOUTH OF THE CENTERLINE OF STATE HIGHWAY 82, 30 FEET NORTH OF THE CENTERLINE OF THE TRACK, AND 5 FEET HIGHER THAN THE HIGHWAY. A STANDARD DISK, STAMPED D 156 1934 AND SET IN THE TOP OF A CONCRETE POST.

ELEVATION = 6196.72 (NAVD 88)

BASIS OF BEARING:

BEARINGS ARE BASED ON THE MODIFIED COLORADO CENTRAL STATE PLANE (NAD 1983 (2011)) BEARING OF N44°47'54"E A DISTANCE OF 6463.17 FEET BETWEEN NGS BENCHMARK D 156 (A 3 1/4" BRASS CAP SET IN CONCRETE) AND NGS POINT WEISHARR (A STEEL ROD IN SLEEVE IN A NGS LOGO BOX. COORDINATES ARE MODIFIED COLORADO CENTRAL STATE PLANE COORDINATES (NAD 1983 (2011)) USING A COMBINED SCALE FACTOR OF 0.999655313



R2 ROCKY MOUNTAIN REGION

TAMPS, LOGOS, AND SEALS



3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

ASPEN-SOPRIS
RANGER DISTRICT
OFFICE

ASPEN / SOPRIS RANGER DISTRICT

DRAWING TITLE

SITE PLAN

ARCHIVE NO.

DESIGNED BY

ES

100

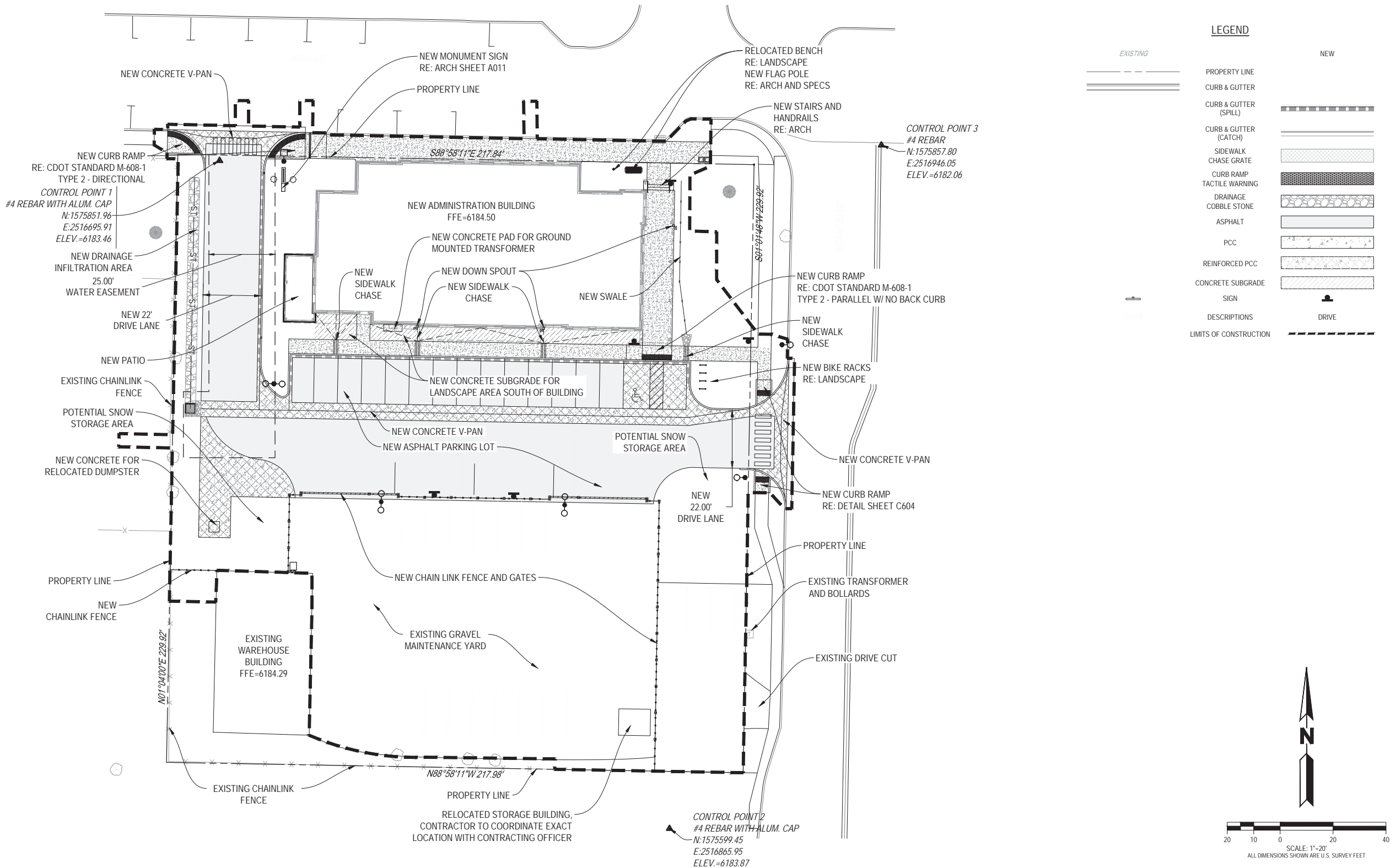
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SUB SHEET NO.

2150

2150



BENCHMARK:

ELEVATIONS ARE BASED ON NGS BENCHMARK D 156, A 3 3/4" BRASS CAP IN CONCRETE 1.0 MI SE FROM CARBONDALE. 1 MILE SOUTHEAST ALONG THE DENVER AND RIO GRANDE WESTERN RAILROAD FROM THE STATION AT CARBONDALE, GARFIELD COUNTY, 435 FEET EAST OF THE EAST CARBONDALE YARD LIMIT SIGN, 240 FEET EAST OF A ROCK CULVERT FOR A SMALL IRRIGATION DITCH, 125 FEET NORTHWEST OF POLE 3112, 50 FEET SOUTH OF THE CENTERLINE OF STATE HIGHWAY 82, 30 FEET NORTH OF THE CENTERLINE OF THE TRACK, AND 5 FEET HIGHER THAN THE HIGHWAY. A STANDARD DISK, STAMPED D 156 1934 AND SET IN THE TOP OF A CONCRETE POST.

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CALL **811** 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG,
GRADE OR EXCAVATE FOR MARKING OF UNDERGROUND MEMBER
UTILITIES

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PLOT DATE: Friday, July 17, 2020 6:48 AM LAST SAVED BY: TSCIRLOCK
DRAWING LOCATION: G:\Mills\18.0474 Forest Service - Aspen_Sopris\Carbondale\PLANS\CD\CA\GRADING_PLAN.dwg

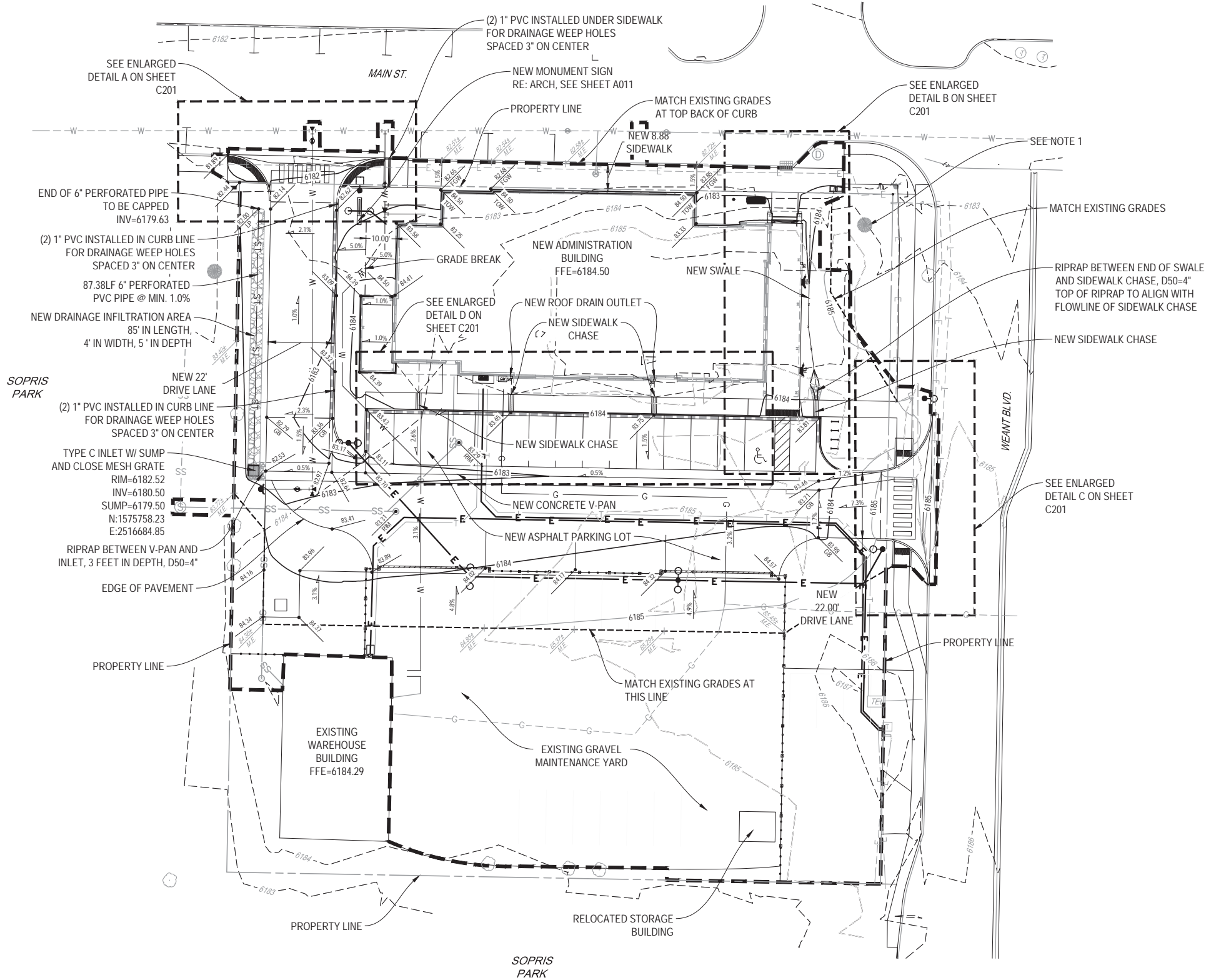
BENCHMARK:

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ELEVATION = 6196.72 (NAVD 88)

BASIS OF BEARING:

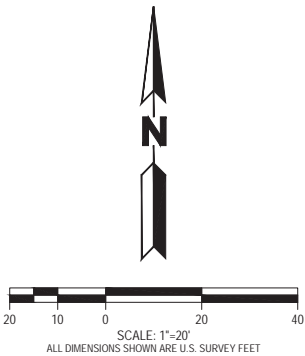
BEARINGS ARE BASED ON THE MODIFIED COLORADO CENTRAL STATE PLANE (NAD 1983 (2011)) BEARING OF N44°47'54"E A DISTANCE OF 6463.17 FEET BETWEEN NGS BENCHMARK D 156 (A 3 1/4" BRASS CAP SET IN CONCRETE) AND NGS POINT WEISHARR (A STEEL ROD IN SLEEVE IN A NGS LOGO BOX. COORDINATES ARE MODIFIED COLORADO CENTRAL STATE PLANE COORDINATES (NAD 1983 (2011)) USING A COMBINED SCALE FACTOR OF 0.999655313



LEGEND	
EXISTING	NEW
PROPERTY LINE	PROPERTY LINE
CURB & GUTTER (CATCH)	CURB & GUTTER (CATCH)
CURB & GUTTER (SPILL)	CURB & GUTTER (SPILL)
CONTOURS	CONTOURS
INLET	INLET
DRAINAGE AREA	DRAINAGE AREA
GRADING ARROW	GRADING ARROW
DECIDUOUS TREE	DECIDUOUS TREE
EVERGREEN TREE	EVERGREEN TREE
DESCRIPTIONS	DESCRIPTIONS
SPOT ELEVATIONS	SPOT ELEVATIONS
	DRIVE
	ELEV.
	LIMITS OF CONSTRUCTION

NOTES:

1. MAINTAIN EXISTING GRADES UNDER DRIP LINE OF COMMUNITY TREE. IF ANY GRADING NEEDS TO BE PERFORMED, IT MUST BE HAND GRADED TO PROTECT ROOTS.
2. SEE PAVING PLAN FOR MORE DETAILS ON SURFACE MATERIALS.
3. SEE SHEET C201 FOR ENLARGED GRADING DETAILS OF ENTRANCES AND ADA RAMPS.
4. ALL SPOTS ARE TO FLOW LINE UNLESS OTHERWISE NOTED. GB = GRADE BREAK, TS = TOP OF STEP, BS = BOTTOM OF STEP, BOW = BACK OF WALK, ME = MATCH EXISTING.



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UTILITIES

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UNITED STATES
DEPARTMENT OF AGRICULTURE
FOREST SERVICE

R2
ROCKY MOUNTAIN
REGION

STAMPS, LOGOS, AND SEALS



3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

ASPEN-SOPRIS
RANGER DISTRICT
OFFICE

ASPEN / SOPRIS RANGER DISTRICT

DRAWING TITLE

GRADING PLAN

ARCHIVE NO.

DESIGNER

TFS

CHECKED

DCW

DATE

07/09/20

SUB SHEET NO.

C200

SHEET

OF

119

PLOT DATE: Thursday, July 16, 2020 7:45 PM LAST SAVED BY: TSCURLLOCK
DRAWING LOCATION: c:\wills\18.0474-Forest Service - Aspen_Sopris Carbondale\PLANS\CDs\C300 UTILITY PLAN.dwg

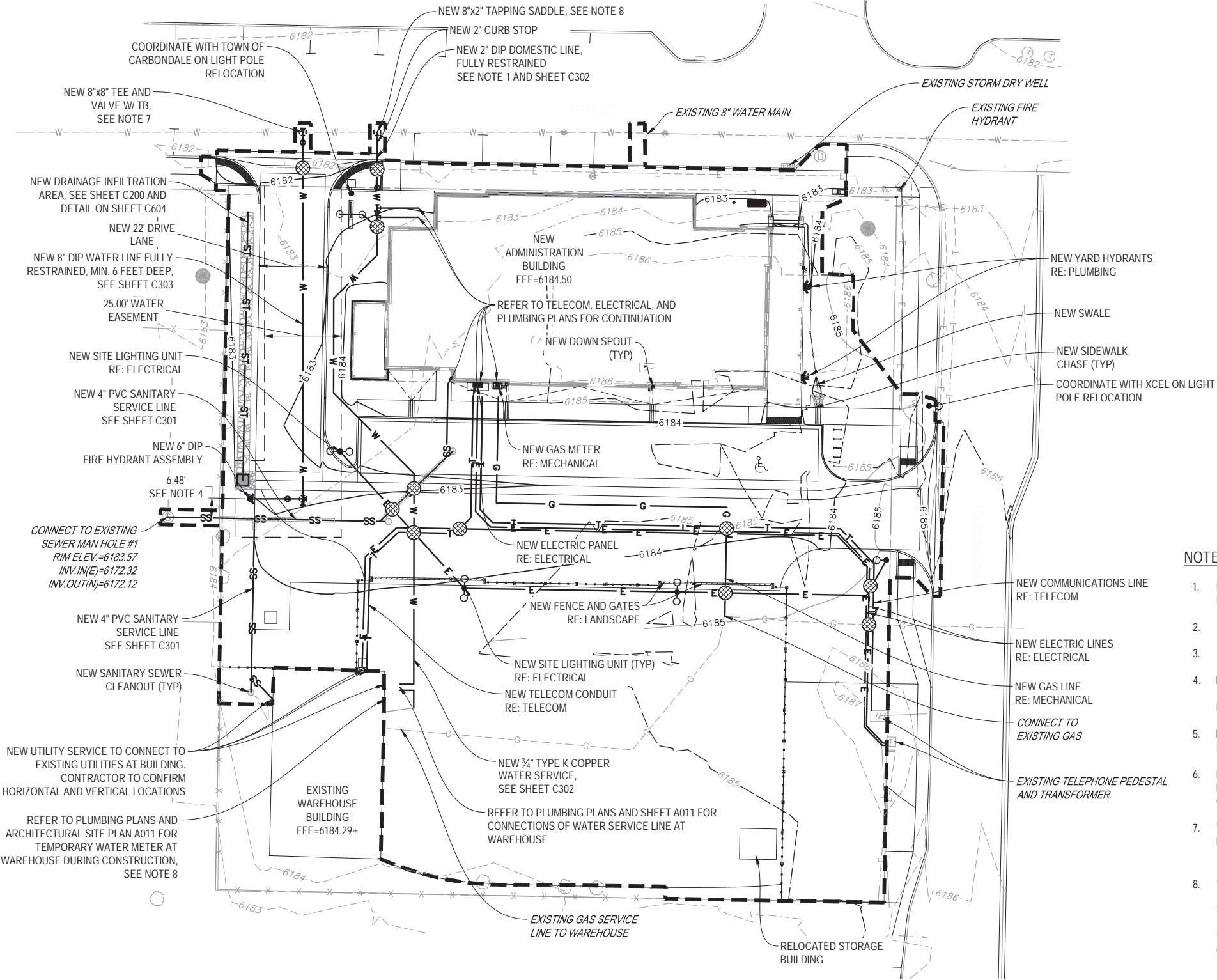
BENCHMARK:

ELEVATIONS ARE BASED ON NGS BENCHMARK D 156, A 3 1/4" BRASS CAP IN CONCRETE 1.0 MI SE FROM CARBONDALE. 1 MILE SOUTHEAST ALONG THE DENVER AND RIO GRANDE WESTERN RAILROAD FROM THE STATION AT CARBONDALE, GARFIELD COUNTY, 435 FEET EAST OF THE EAST CARBONDALE YARD LIMIT SIGN, 240 FEET EAST OF A ROCK CULVERT FOR A SMALL IRRIGATION DITCH, 125 FEET NORTHWEST OF POLE 3112, 50 FEET SOUTH OF THE CENTERLINE OF STATE HIGHWAY 82, 30 FEET NORTH OF THE CENTERLINE OF THE TRACK, AND 5 FEET HIGHER THAN THE HIGHWAY. A STANDARD DISK, STAMPED D 156 1934 AND SET IN THE TOP OF A CONCRETE POST.

ELEVATION = 6196.72 (NAVD 88)

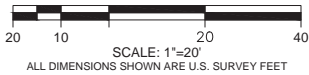
BASIS OF BEARING:

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NOTES:

1. FOR WATER METER AND BACKFLOW PREVENTER FOR DOMESTIC LINE LOCATED INSIDE BUILDING, REFER TO MECHANICAL PLANS.
2. SEE SHEETS C600 AND C602 FOR UTILITY DETAILS.
3. SEE SHEET C301, C302, AND C303 FOR SANITARY AND WATER SERVICE LINE PROFILES.
4. MAINTAIN A MINIMUM OF TEN FEET (10') HORIZONTAL SEPARATION BETWEEN ALL SANITARY PIPE AND POTABLE WATER PIPES. WHEN 10 FEET (10') OF SEPARATION CANNOT BE MET, REFER TO PROJECT SPECIFICATIONS FOR ENCASEMENT INSTRUCTIONS.
5. MAINTAIN A MINIMUM OF TEN FEET (10') HORIZONTAL SEPARATION BETWEEN ALL UTILITY LINES AND EXISTING AND PROPOSED TREES.
6. LAYOUT OF ELECTRICAL, TELECOM, AND GAS LINES SHOWN HEREON ARE DIAGRAMMATIC IN NATURE AND ARE PROVIDED FOR REFERENCE ONLY. REFER TO RESPECTIVE DISCIPLINE PLANS FOR CONSTRUCTION DETAILS.
7. TEE CONNECTIONS ON THE EXISTING MAIN SHALL BE MADE WITH MECHANICAL RESTRAINT AND BOLTED SLEEVE COUPLING. COORDINATE WATER SHUT OFF AND TEE CONNECTION WITH AUTHORITY HAVING JURISDICTION.
8. THE NEW 2" TAP TO THE EXISTING MAIN AND THE NEW 3/4" WATER SERVICE LINE TO THE WAREHOUSE SHALL BE CONSTRUCTED PRIOR TO DISCONNECTING THE EXISTING TAP AND WATER SERVICE TO THE WAREHOUSE. NEW SERVICE SHALL BE CONNECTED AND TRANSFERRED ONLY ONCE TAP AND SERVICE LINE HAVE BEEN TESTED AND TEMPORARY METER AT WAREHOUSE IS READY TO CONNECT TO. THE 2" SERVICE LINE TO THE NEW OFFICE BUILDING SHALL BE CAPPED UNTIL READY TO CONNECT TO THE BUILDING.



CALL **811** 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE OR EXCAVATE FOR MARKING OF UNDERGROUND MEMBER UTILITIES

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LEGEND

EXISTING		NEW
---	PROPERTY LINE	=====
=====	CURB & GUTTER	=====
=====	UTILITY CROSSING	=====
=====	DRAINAGE INLET/AREA	=====
-----SS-----	DOWN SPOUT	DS
-----S-----	SANITARY SEWER	SS
-----W-----	SANITARY MANHOLE	-----
-----	CLEAN OUT	-----
-----	WATER LINE	-----
-----	WATER VALVE	-----
-----	FIRE HYDRANT	-----
-----	YARD HYDRANT	-----
-----E-----	ELECTRIC LINE	-----
-----	LIGHT POLE	-----
-----	POWER POLE	-----
-----	ELECTRIC METER	-----
-----	TRANSFORMER	-----
-----T-----	TELEPHONE LINE	-----
-----	TELEPHONE PEDESTAL	-----
-----G-----	GAS LINE	-----
-----	GAS METER	-----
-----	FLAG POLE	-----
-----	DESCRIPTIONS	-----
-----	LIMITS OF CONSTRUCTION	-----



UNITED STATES
DEPARTMENT OF AGRICULTURE
FOREST SERVICE

R2
ROCKY MOUNTAIN
REGION

STAMPS, LOGOS, AND SEALS



3		
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NO.	REVISION / ISSUE	DATE

PROJECT NAME

**ASPEN-SOPRIS
RANGER DISTRICT
OFFICE**

ASPEN / SOPRIS RANGER DISTRICT

DRAWING TITLE

UTILITY PLAN

ARCHIVE NO.

DESIGNER

TFS

CHECKED

DCW

DATE

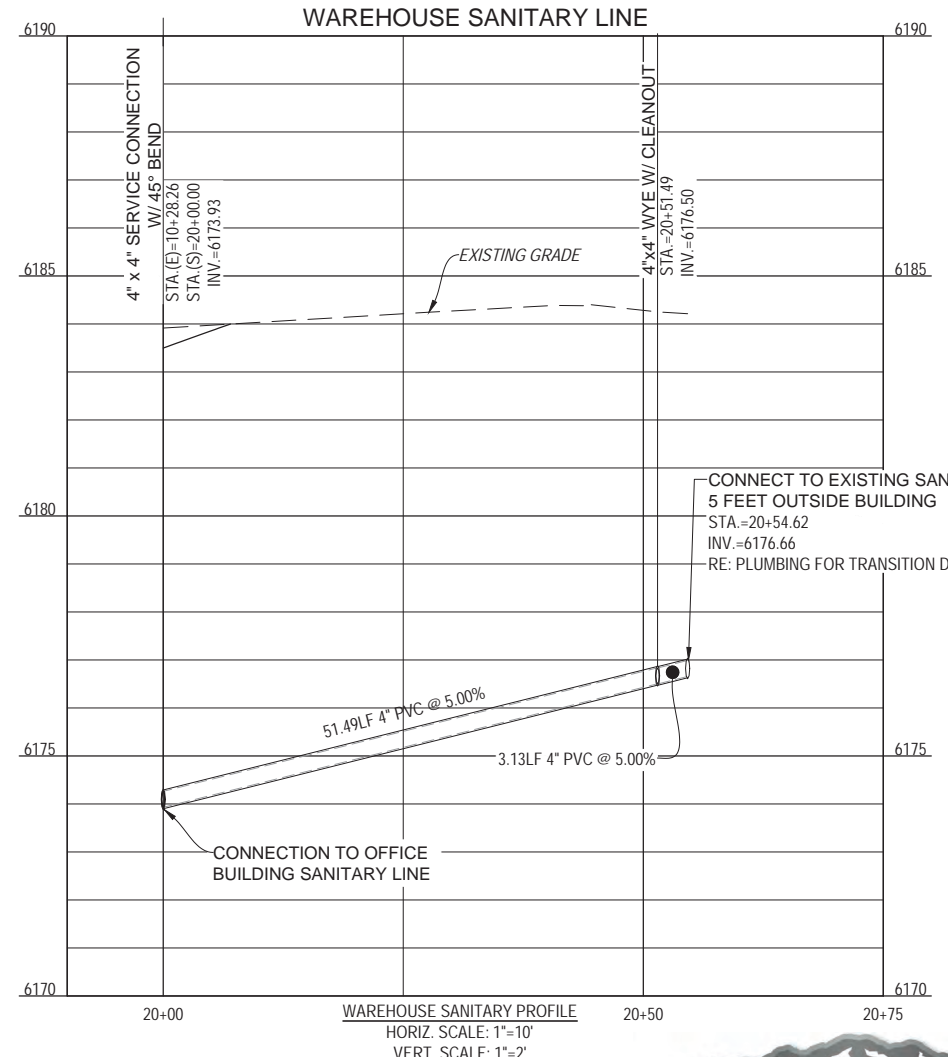
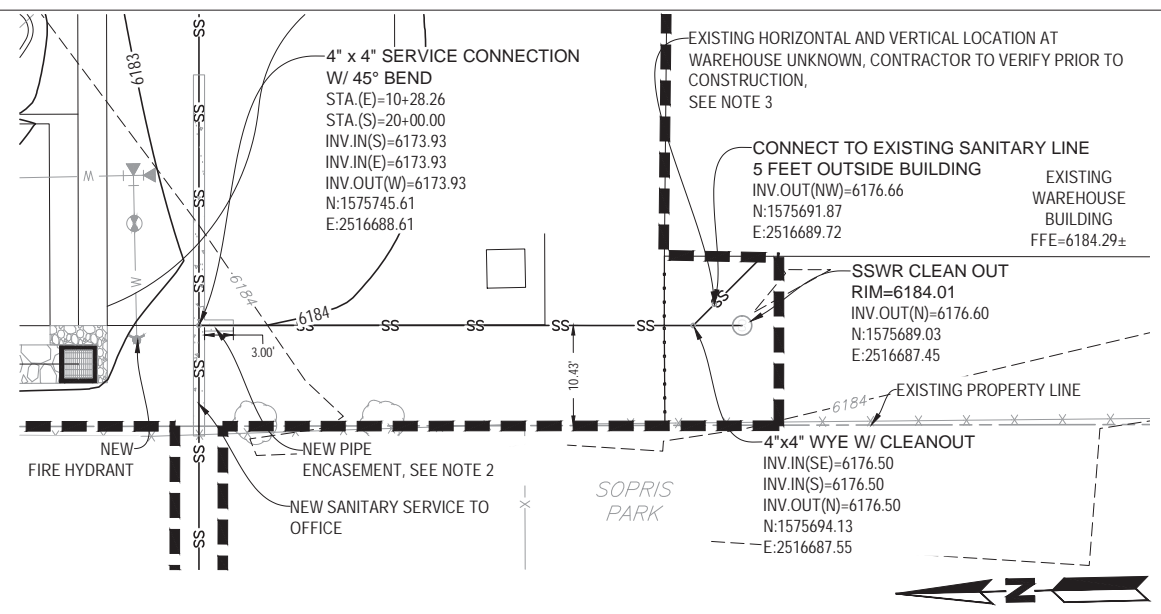
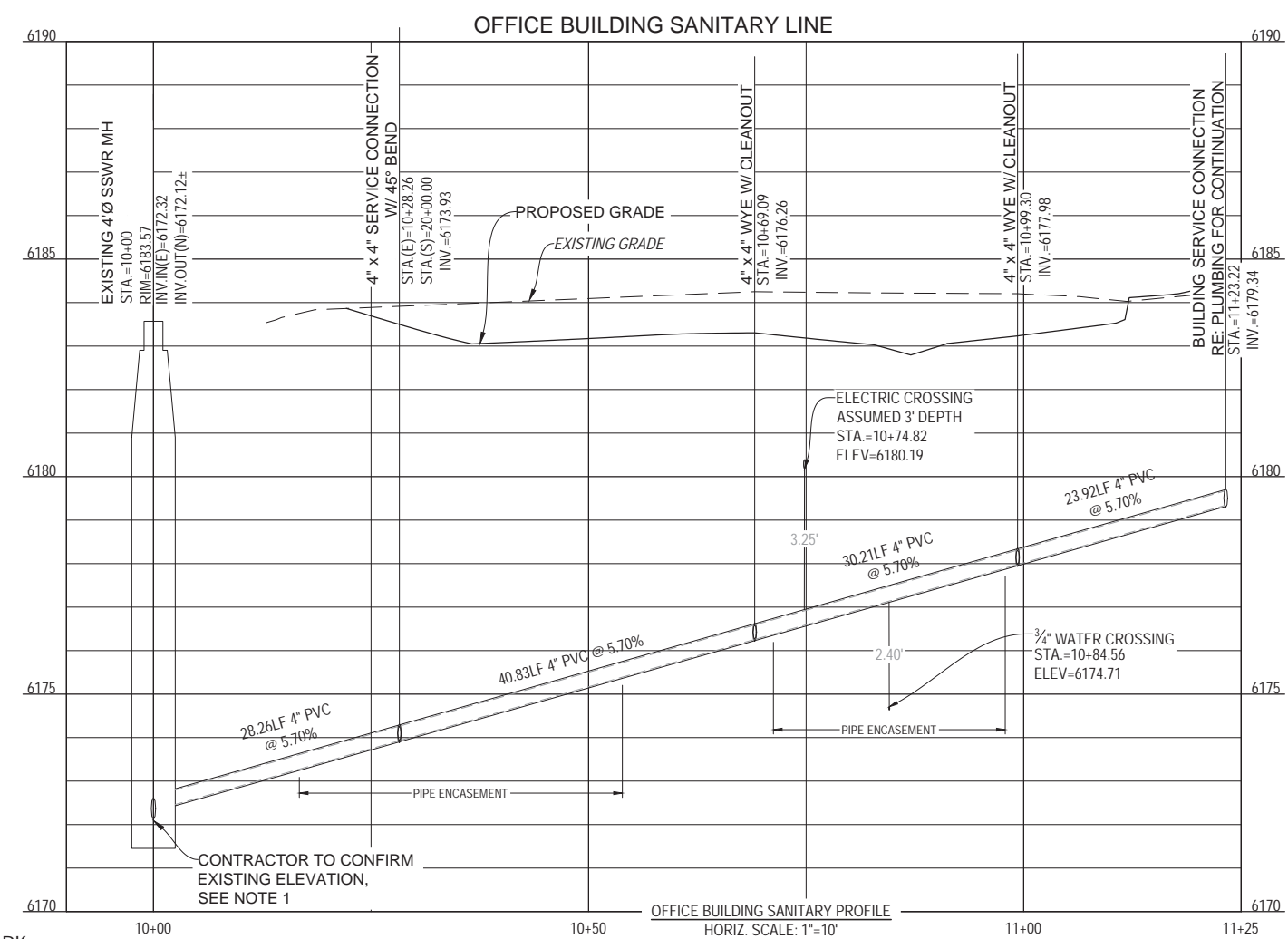
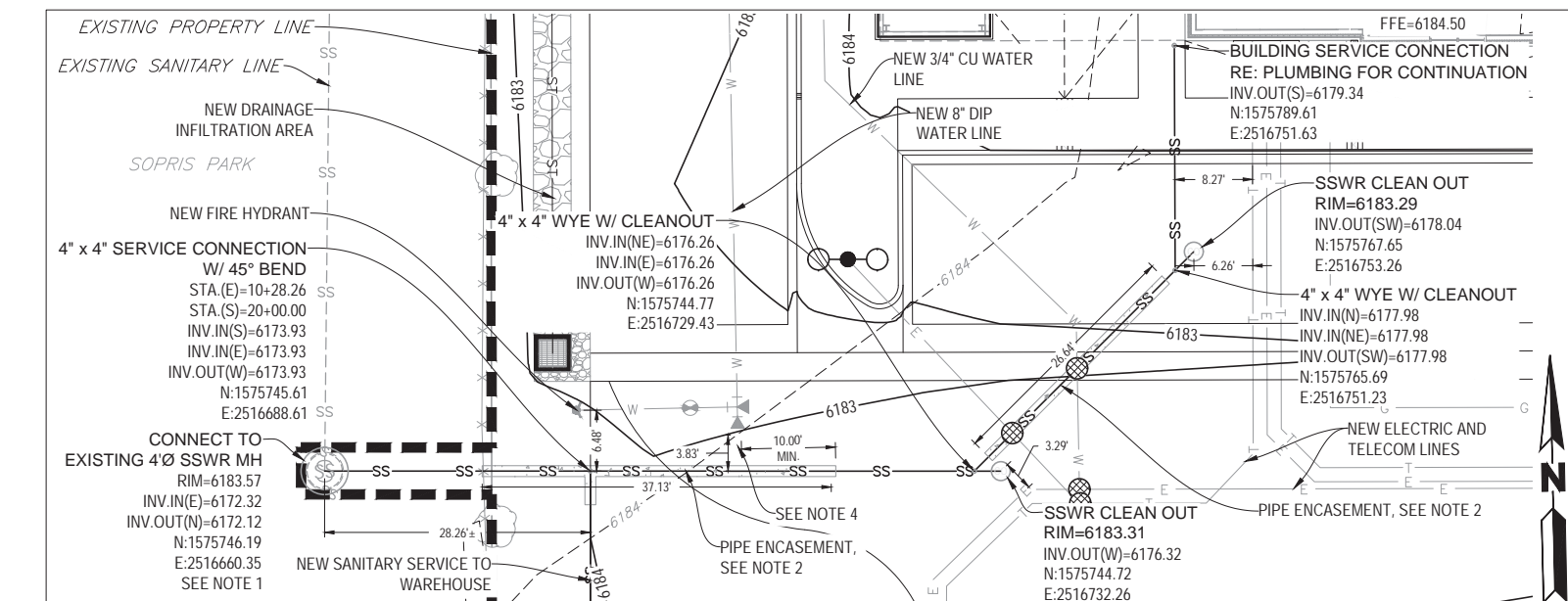
07/09/20

SUB SHEET NO.

C300

SHEET

119



BENCHMARK:

ELEVATIONS ARE BASED ON NGS BENCHMARK D 156, A 3 1/4" BRASS CAP IN CONCRETE 1.0 MI SE FROM CARBONDALE. 1 MILE SOUTHEAST ALONG THE DENVER AND RIO GRANDE WESTERN RAILROAD FROM THE STATION AT CARBONDALE, GARFIELD COUNTY, 435 FEET EAST OF THE EAST CARBONDALE YARD LIMIT SIGN, 240 FEET EAST OF A ROCK CULVERT FOR A SMALL IRRIGATION DITCH, 125 FEET NORTHWEST OF POLE 3112, 50 FEET SOUTH OF THE CENTERLINE OF STATE HIGHWAY 82, 30 FEET NORTH OF THE CENTERLINE OF THE TRACK, AND 5 FEET HIGHER THAN THE HIGHWAY. A STANDARD DISK, STAMPED D 156 1934 AND SET IN THE TOP OF A CONCRETE POST.

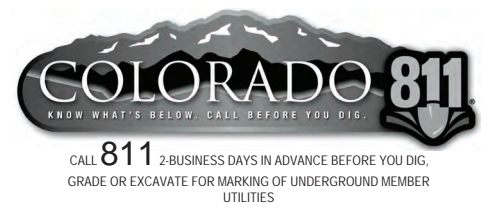
ELEVATION = 6196.72 (NAVD 88)

BASIS OF BEARING:

BEARINGS ARE BASED ON THE MODIFIED COLORADO CENTRAL STATE PLANE (NAD 1983 (2011)) BEARING OF N44°47'54"E A DISTANCE OF 6463.17 FEET BETWEEN NGS BENCHMARK D 156 (A 3 1/4" BRASS CAP SET IN CONCRETE) AND NGS POINT WEISHARR (A STEEL ROD IN SLEEVE IN A NGS LOGO BOX. COORDINATES ARE MODIFIED COLORADO CENTRAL STATE PLANE COORDINATES (NAD 1983 (2011)) USING A COMBINED SCALE FACTOR OF 0.999655313

NOTES

1. CONNECTION TO EXISTING MANHOLE SHALL INCLUDE NON-SHRINK GROUT TO PROVIDE LEAK-TIGHT CONNECTION INCLUDING WATER STOP FOR ANNULAR SPACE AROUND NEW 4" PIPE CONNECTION. CONTRACTOR SHALL REFORM BASE OF MANHOLE TO PROVIDE SMOOTH TROUGH TRANSITIONS. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. REFER TO PROJECT SPECIFICATIONS FOR DETAILS REGARDING PIPE ENCASEMENT.
3. CONTRACTOR TO PROVIDE DEPTH OF BUILDING CONNECTION TO CONTRACTING OFFICER FOR REVIEW.
4. CONTRACTOR SHALL SCHEDULE SANITARY CONSTRUCTION TO MITIGATE IMPACT TO THRUSTBLOCK AT THE END OF THE 8" WATER LINE. BACKFILL OF SANITARY TRENCH SHALL BE TESTED TO CONFIRM REQUIRED BEARING CAPACITY IS PROVIDED FOR THRUSTBLOCK.



MARTIN/MARTIN ASSUMES NO RESPONSIBILITY FOR UTILITY LOCATIONS. THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM (PROVIDED) ASCE (38) UTILITY QUALITY LEVEL D (Q_u) AVAILABLE INFORMATION. IT IS, HOWEVER, THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY THE SIZE, MATERIAL, HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES (DEPICTED OR NOT DEPICTED) PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.

UNITED STATES
DEPARTMENT OF AGRICULTURE
FOREST SERVICE

R2
ROCKY MOUNTAIN
REGION

STAMPS, LOGOS, AND SEALS

3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

**ASPEN-SOPRIS
RANGER DISTRICT
OFFICE**

ASPEN / SOPRIS RANGER DISTRICT

DRAWING TITLE

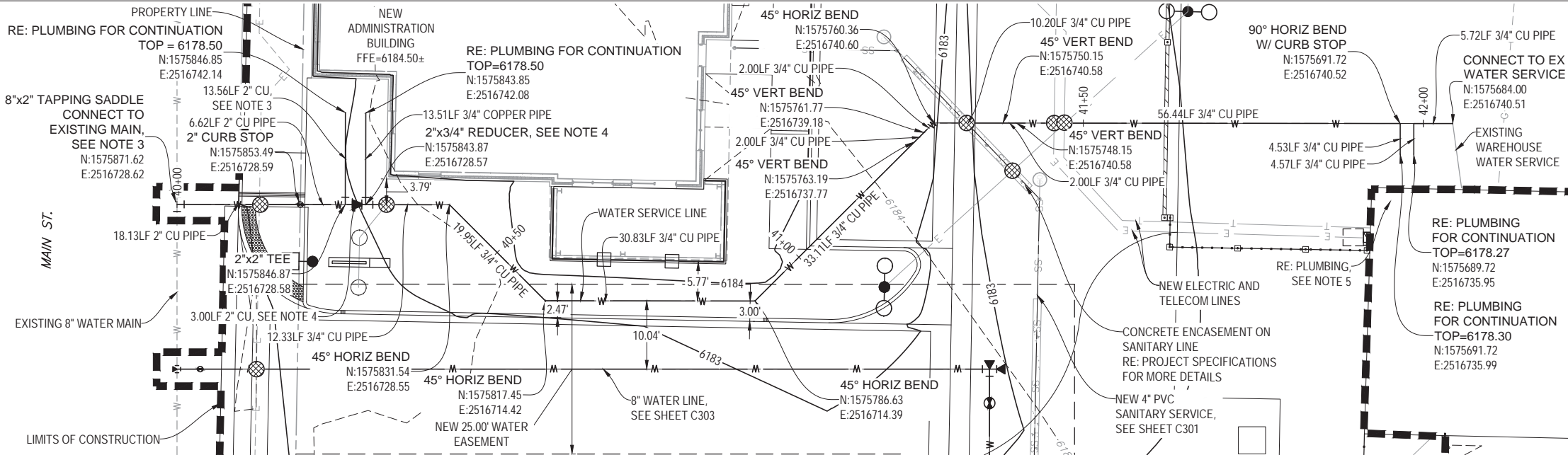
SANITARY PROFILES

ARCHIVE NO.

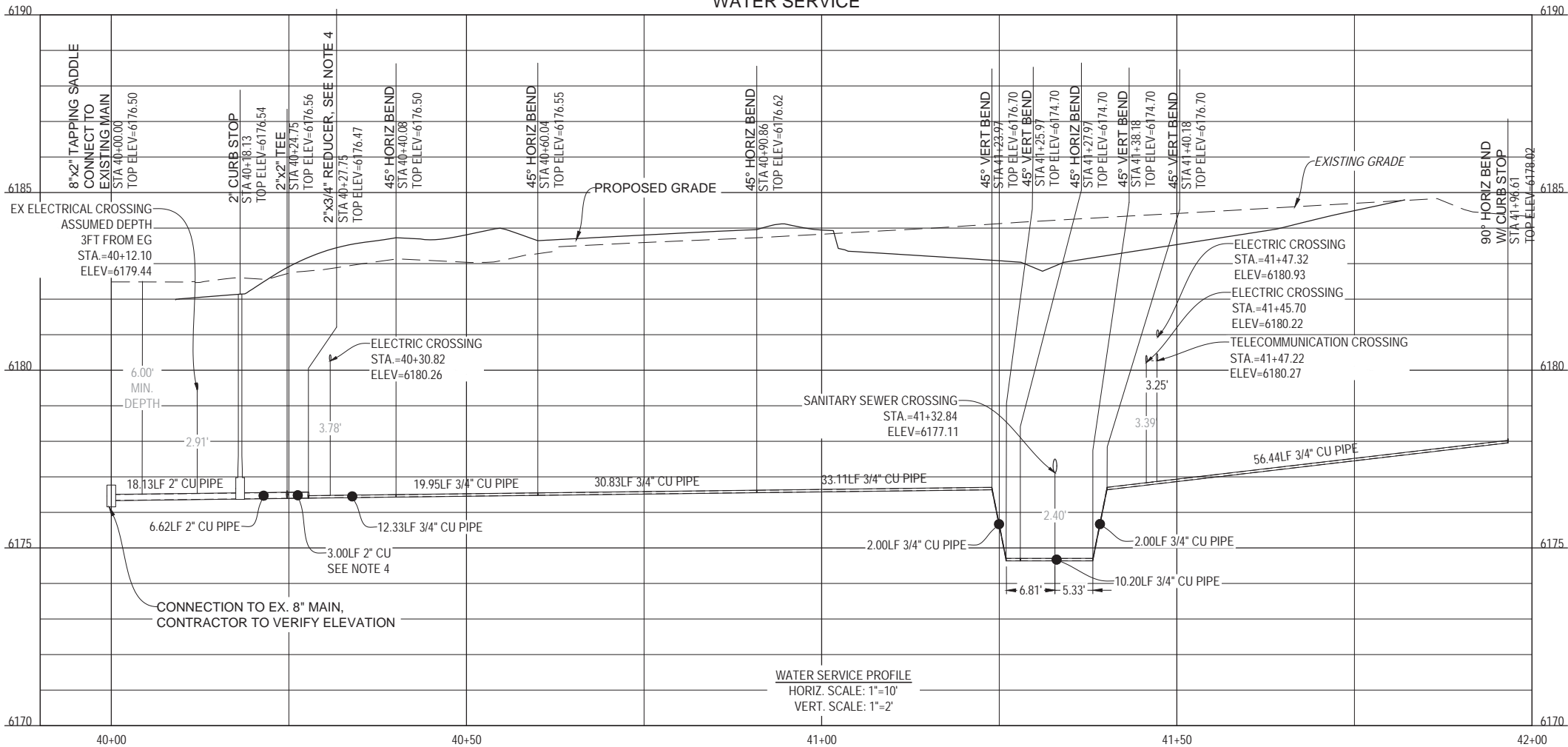
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PLOT DATE: Thursday, July 16, 2020 8:07 PM LAST SAVED BY: TSOURLLOCK
DRAWING LOCATION: G:\Mills\18.0474 Forest Services - Aspen_Sopris\Carbondale\PLANS\CD&C\301 UTILITY PROFILES.dwg

PLOT DATE: Thursday, July 16, 2020 8:07 PM. LAST SAVED BY: TSOURLLOCK
DRAWING LOCATION: G:\Millis\18.0474 Forest Service - Aspen_Sopris Carbondale\PLANS\C301 UTILITY PROFILES.dwg



WATER SERVICE



BENCHMARK:

ELEVATIONS ARE BASED ON NGS BENCHMARK D 156, A 3 1/4" BRASS CAP IN CONCRETE 1.0 MI SE FROM CARBONDALE. 1 MILE SOUTHEAST ALONG THE DENVER AND RIO GRANDE WESTERN RAILROAD FROM THE STATION AT CARBONDALE, GARFIELD COUNTY, 435 FEET EAST OF THE EAST CARBONDALE YARD LIMIT SIGN, 240 FEET EAST OF A ROCK CULVERT FOR A SMALL IRRIGATION DITCH, 125 FEET NORTHWEST OF POLE 3112, 50 FEET SOUTH OF THE CENTERLINE OF STATE HIGHWAY 82, 30 FEET NORTH OF THE CENTERLINE OF THE TRACK, AND 5 FEET HIGHER THAN THE HIGHWAY. A STANDARD DISK, STAMPED D 156 1934 AND SET IN THE TOP OF A CONCRETE POST.

ELEVATION = 6196.72 (NAVD 88)

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NOTES:

1. THE HORIZONTAL AND VERTICAL ALIGNMENT SHOWN HEREON BY USING FITTINGS IS INTENDED TO CONVEY THE DESIGN INTENT AND MAY BE ACCOMPLISHED BY BENDING COPPER TUBING AS ALLOWED OR RECOMMENDED BY THE TUBING MANUFACTURER.
2. THE CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATING AND VERIFYING ELEVATIONS OF ALL EXISTING IMPROVEMENTS AND UTILITIES AT THE POINT OF CONNECTION SHOWN ON THE PLANS, AND AT ANY UTILITY CROSSINGS PRIOR TO INSTALLING ANY OF THE NEW IMPROVEMENTS. IF A CONFLICT EXISTS AND/OR A DESIGN MODIFICATION IS REQUIRED, THE CONTRACTOR SHALL COORDINATE WITH THE CONTRACTING OFFICER TO MODIFY THE DESIGN PRIOR TO CONSTRUCTION.
3. WATER SERVICE NEEDS TO BE PROVIDED TO THE WAREHOUSE AT ALL TIMES DURING CONSTRUCTION. THE NEW 2" DOMESTIC WATER TAP AND 3/4" WATER SERVICE TO THE WAREHOUSE SHALL BE FULLY CONSTRUCTED AND TESTED PRIOR TO DISCONNECTING THE EXISTING WATER SERVICE TAP. THE 2" LINE TO THE NEW OFFICE SHALL BE CAPPED UNTIL READY TO CONNECT TO THE BUILDING.
4. TWO FEET OF 2" PIPE AND A 2"x3/4" REDUCER SHALL BE TEMPORARILY CONSTRUCTED TO ALLOW WATER TO THE WAREHOUSE DURING CONSTRUCTION. ONCE THE PERMANENT WATER METER WITHIN THE NEW OFFICE IS CONSTRUCTED AND READY TO BE CONNECTED TO, THE TWO FOOT STRETCH OF 2" PIPE AND THE 2"x3/4" REDUCER SHALL BE REMOVED, THE SOUTH SIDE OF THE 2"x2" TEE SHALL BE PLUGGED, AND A 3/4" 90° BEND SHALL REPLACE THE REDUCER TO CONNECT THE 3/4" WATER SERVICE TO THE WATER METER IN THE NEW OFFICE.
5. REFER TO PLUMBING PLANS AND SHEET A011 FOR INSTALLATION OF A TEMPORARY WATER METER TO BE LOCATED WITHIN THE WAREHOUSE DURING CONSTRUCTION.



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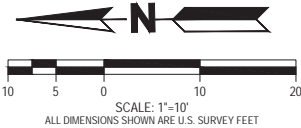
ASPEN / SOPRIS RANGER DISTRICT

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WATER PROFILES

ARCHIVE NO.

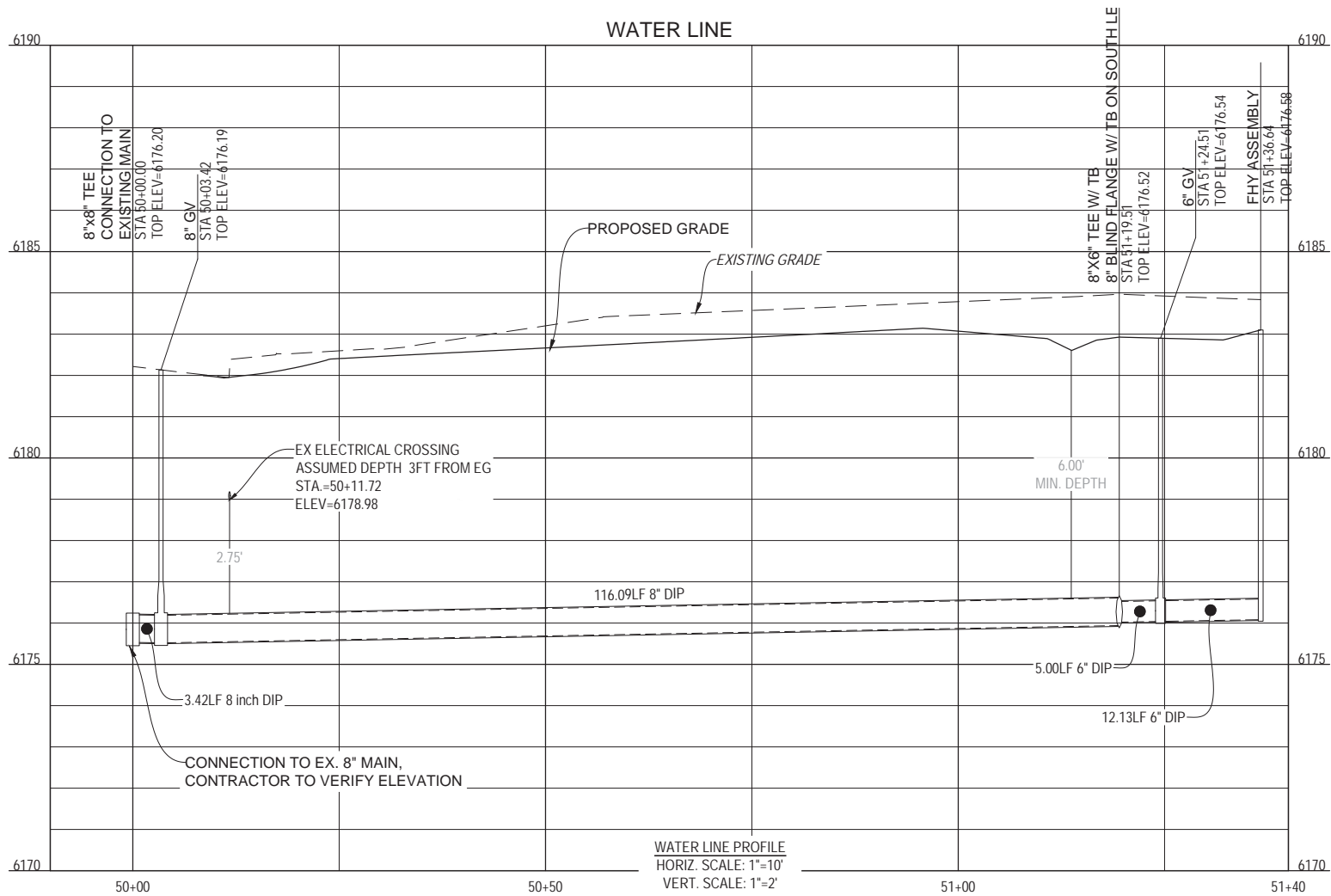
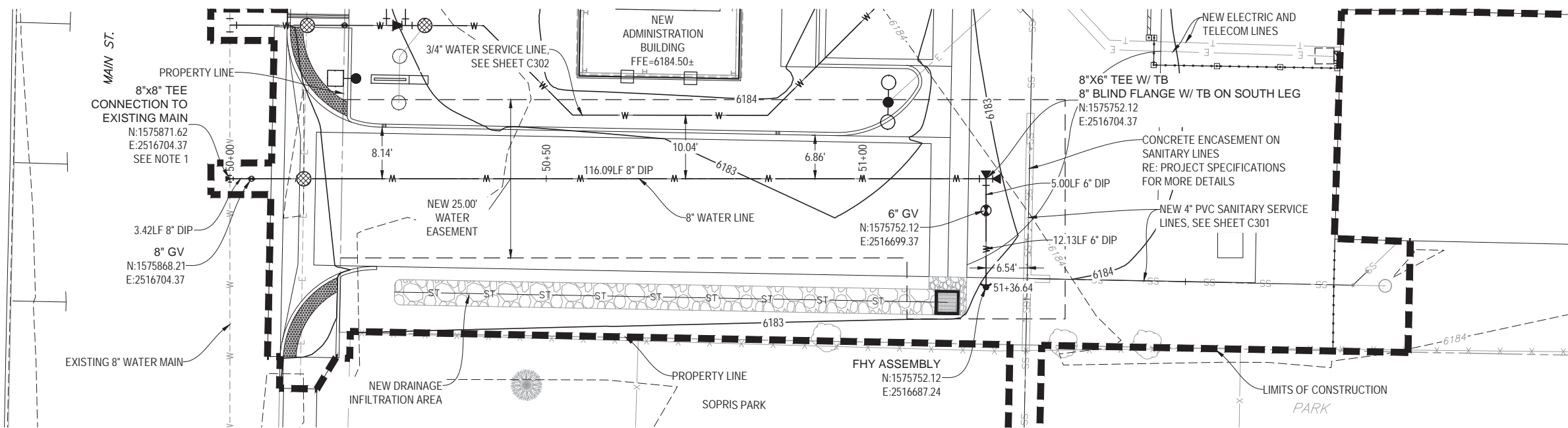
DESIGNER TFS	SUB SHEET NO.
CHECKED DCW	C302
DATE 07/09/20	SHEET 12 OF 119



CALL 811 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG,
GRADE OR EXCAVATE FOR MARKING OF UNDERGROUND MEMBER UTILITIES

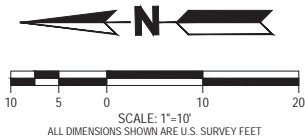
MARTIN/MARTIN ASSUMES NO RESPONSIBILITY FOR UTILITY LOCATIONS. THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM (PROVIDED) ASCE (38) UTILITY QUALITY LEVEL D (Q_{LD}) AVAILABLE INFORMATION. IT IS, HOWEVER, THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY THE SIZE, MATERIAL, HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES (DEPICTED OR NOT DEPICTED) PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.

PLOT DATE: Thursday, July 16, 2020 8:07 PM, LAST SAVED BY: TSOURLLOCK
DRAWING LOCATION: G:\Mills\18.0474 Forest Service - Aspen_Sopris Carbondale\PLANS\C&C\301 UTILITY PROFILES.dwg



NOTES:

1. CONNECTION TO EXISTING MAIN SHALL BE MADE WITH A MEGA-LUG RESTRAINT AND BOLTED SLEEVE COUPLING.
2. THE CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATING AND VERIFYING ELEVATIONS OF ALL EXISTING IMPROVEMENTS AND UTILITIES AT THE POINT OF CONNECTION SHOWN ON THE PLANS, AND AT ANY UTILITY CROSSINGS PRIOR TO INSTALLING ANY OF THE NEW IMPROVEMENTS. IF A CONFLICT EXISTS AND/OR A DESIGN MODIFICATION IS REQUIRED, THE CONTRACTOR SHALL COORDINATE WITH THE CONTRACTING OFFICER TO MODIFY THE DESIGN PRIOR TO CONSTRUCTION.
3. CONTRACTOR SHALL SCHEDULE SANITARY CONSTRUCTION TO MITIGATE IMPACT OF THRUSTBLOCK AT THE END OF THE WATER MAIN. BACKFILL OF SANITARY TRENCH SHALL BE TESTED TO CONFIRM REQUIRED BEARING CAPACITY IS PROVIDED FOR THRUSTBLOCK.
4. FIRE HYDRANT ASSEMBLY SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TOWN OF CARBONDALE DETAIL 4, SEE SHEET C600.



CALL 811 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG,
GRADE OR EXCAVATE FOR MARKING OF UNDERGROUND MEMBER UTILITIES

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ASPEN / SOPRIS RANGER DISTRICT

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WATER PROFILES

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DATE

07/09/20

SUB SHEET NO.

C303

SHEET

OF

119

PLOT DATE: Thursday, July 16, 2020 7:50 PM LAST SAVED BY: TSOURL00K
DRAWING LOCATION: G:\Mills\18.0474 Forest Service - Aspen_Sopris\Carbondale\PLANS\CD\CD-00 CONSTRUCTION LIMITS AND ACCESS.dwg

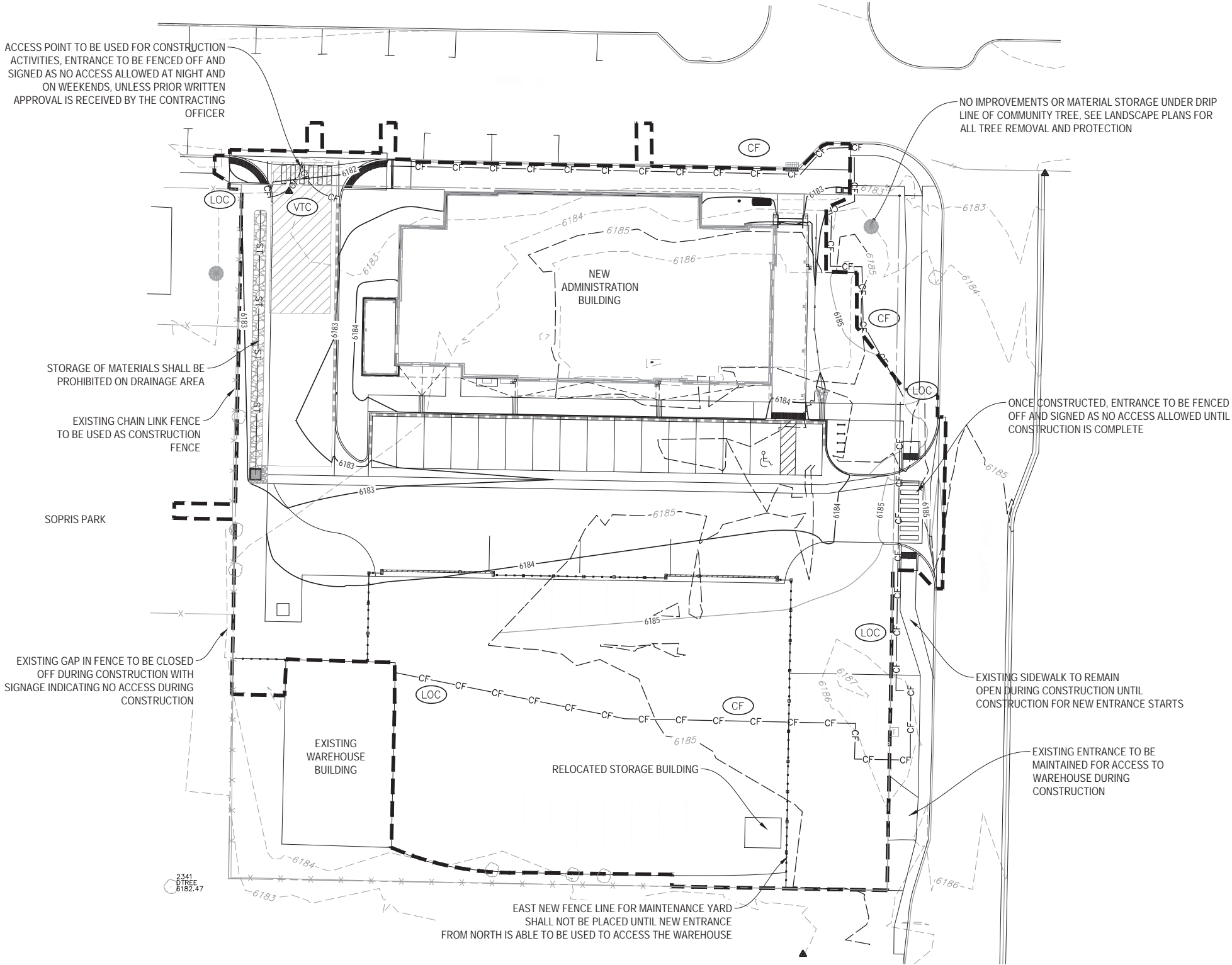
BENCHMARK:

ELEVATIONS ARE BASED ON NGS BENCHMARK D 156, A 3 1/4" BRASS CAP IN CONCRETE 1.0 MI SE FROM CARBONDALE. 1 MILE SOUTHEAST ALONG THE DENVER AND RIO GRANDE WESTERN RAILROAD FROM THE STATION AT CARBONDALE, GARFIELD COUNTY, 435 FEET EAST OF THE EAST CARBONDALE YARD LIMIT SIGN, 240 FEET EAST OF A ROCK CULVERT FOR A SMALL IRRIGATION DITCH, 125 FEET NORTHWEST OF POLE 3112, 50 FEET SOUTH OF THE CENTERLINE OF STATE HIGHWAY 82, 30 FEET NORTH OF THE CENTERLINE OF THE TRACK, AND 5 FEET HIGHER THAN THE HIGHWAY. A STANDARD DISK, STAMPED D 156 1934 AND SET IN THE TOP OF A CONCRETE POST.

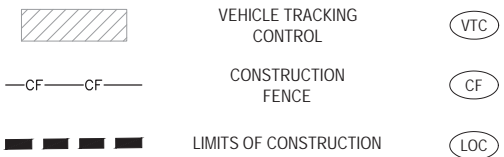
ELEVATION = 6196.72 (NAVD 88)

BASIS OF BEARING:

BEARINGS ARE BASED ON THE MODIFIED COLORADO CENTRAL STATE PLANE (NAD 1983 (2011)) BEARING OF N44°47'54"E A DISTANCE OF 6463.17 FEET BETWEEN NGS BENCHMARK D 156 (A 3 1/4" BRASS CAP SET IN CONCRETE) AND NGS POINT WEISHARR (A STEEL ROD IN SLEEVE IN A NGS LOGO BOX. COORDINATES ARE MODIFIED COLORADO CENTRAL STATE PLANE COORDINATES (NAD 1983 (2011)) USING A COMBINED SCALE FACTOR OF 0.999655313

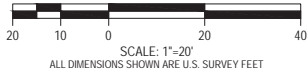


LEGEND



NOTES:

1. SEE EROSION CONTROL PLAN FOR PLACEMENT OF BMPS DURING CONSTRUCTION.
2. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS REGARDING EROSION CONTROL ACTIVITIES.
3. CONTRACTOR SHALL PREPARE AND SUBMIT A TRAFFIC CONTROL PLAN FOR ANY WORK WITHIN THE RIGHT-OF-WAY AT LEAST ONE (1) WEEK IN ADVANCE OF STARTING SAID WORK.
4. SEE LANDSCAPE PLANS FOR ALL TREE REMOVAL AND PROTECTION.
5. THE CONTRACTOR SHALL MAINTAIN FOREST SERVICE ACCESS TO WAREHOUSE DURING CONSTRUCTION AS SHOWN.
6. CONTRACTOR SHALL SUBMIT A PLAN TO CONTRACTING OFFICER AT LEAST 48 HOURS IN ADVANCE FOR CONSTRUCTION FENCING MODIFICATIONS AS NEEDED TO CONSTRUCT IMPROVEMENTS. CONSTRUCTION FENCE LIMITS AND BMPS CAN MOVE SOUTH AS NEEDED DURING RELOCATED STORAGE BUILDING CONSTRUCTION AND CONSTRUCTION OF NEW FENCE FOR MAINTENANCE YARD, AS SHOWN ON EROSION CONTROL PLAN.
7. CONTRACTOR TO PROVIDE SIDEWALK ACCESS DURING CONSTRUCTION. SIDEWALK CAN BE CLOSED DURING SHORT PERIODS OF TIME WHILE NEW DRIVEWAY IS BEING CONSTRUCTED. CONTRACTOR TO PROVIDE ADEQUATE SIGNAGE FOR ALTERNATE SIDEWALK ROUTES DURING THIS TIME.
8. CONTRACTOR TO PROVIDE SIGNAGE AROUND THE PERIMETER OF CONSTRUCTION ACTIVITIES INDICATING NO PUBLIC ACCESS THROUGH THE SITE IS ALLOWED.
9. CONTRACTOR IS LIMITED TO ONE VEHICLE ACCESS POINT OFF MAIN STREET DURING CONSTRUCTION.



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ASPEN / SOPRIS RANGER DISTRICT

DRAWING TITLE

**CONSTRUCTION LIMITS
AND ACCESS PLAN**

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OFFICE

ASPEN / SOPRIS RANGER DISTRICT

DRAWING TITLE

EROSION CONTROL
PLAN

ARCHIVE NO.

DESIGNER

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DCW

DATE

07/09/20

SUB SHEET NO.

C401

SHEET

OF

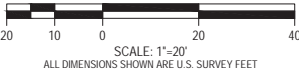
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LEGEND

SF	SILT FENCE	SF
VTC	VEHICLE TRACKING CONTROL	VTC
IP	INLET PROTECTION	IP
SCL	SEDIMENT CONTROL LOG	SCL
LOC	LIMITS OF CONSTRUCTION	LOC
EXISTING DRAINAGE ARROW		
PROPOSED DRAINAGE ARROW		

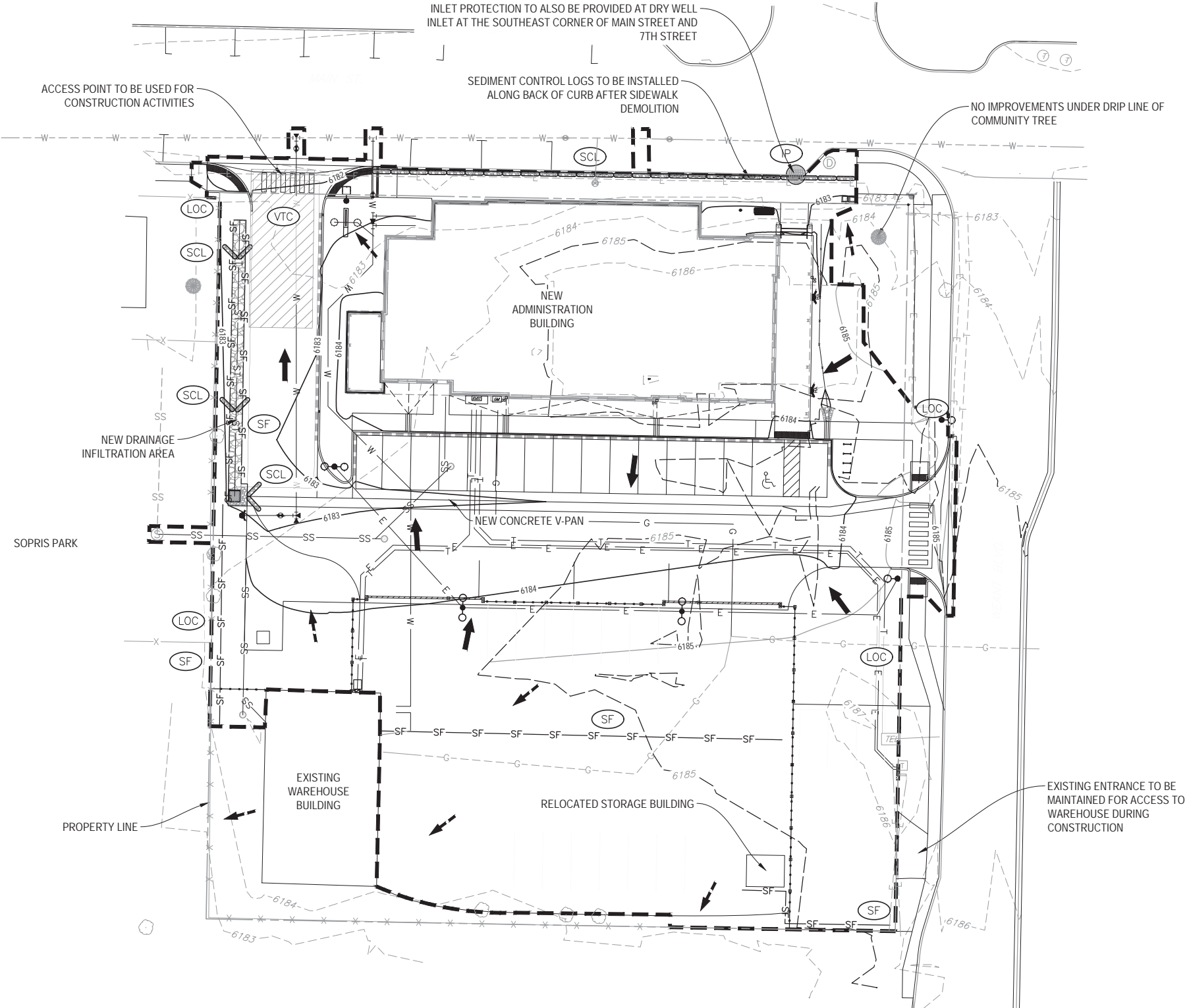
NOTES:

- CONTRACTOR IS RESPONSIBLE FOR REVIEWING EROSION CONTROL PLANS AND MODIFYING TO ENSURE IT MEETS THEIR MEANS AND METHODS FOR STORMWATER MANAGEMENT.
- REFER TO CONSTRUCTION LIMITS AND ACCESS PLAN LOCATION OF CONSTRUCTION FENCING AND FOR NOTES ON PHASING OF CONSTRUCTION ACTIVITIES THROUGHOUT THE PROJECT.
- SEE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR EROSION CONTROL ACTIVITIES.
- STAGING AREA, STOCKPILE LOCATION, AND CONCRETE WASHOUT NOT SHOWN ON PLANS, REFER TO SHEETS C402 AND C403 FOR DETAILS REGARDING THESE BMPs TO FOLLOW DURING CONSTRUCTION.
- CONSTRUCTION FENCE LIMITS AND BMPs CAN MOVE SOUTH AS NEEDED DURING RELOCATED STORAGE BUILDING CONSTRUCTION AND CONSTRUCTION OF NEW FENCE FOR MAINTENANCE YARD.
- NO WORK SHALL BE PERFORMED OUTSIDE THE LIMITS OF CONSTRUCTION. ANY DAMAGES TO THESE AREAS SHALL BE FIXED BY CONTRACTOR AT NO ADDITIONAL COST TO GOVERNMENT.
- CONTRACTOR SHALL OBTAIN A STORMWATER CONSTRUCTION PERMIT FROM THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY CONTROL DIVISION, PRIOR TO CLEARING, GRADING, OR EXCAVATING A SITE OF ONE ACRE OR MORE. A COPY OF THE APPROVED PERMIT MUST BE SUBMITTED TO THE CONTRACTING OFFICER PRIOR TO THE START OF CLEARING, GRADING OR EXCAVATING OF THE SITE. A COPY OF THE APPROVED PERMIT MUST ALSO BE AVAILABLE ON THE PROJECT SITE AT ALL TIMES DURING CONSTRUCTION.
- APPROXIMATE DISTURBED AREA OF SITE IS ESTIMATED AT 1.11 ACRES.



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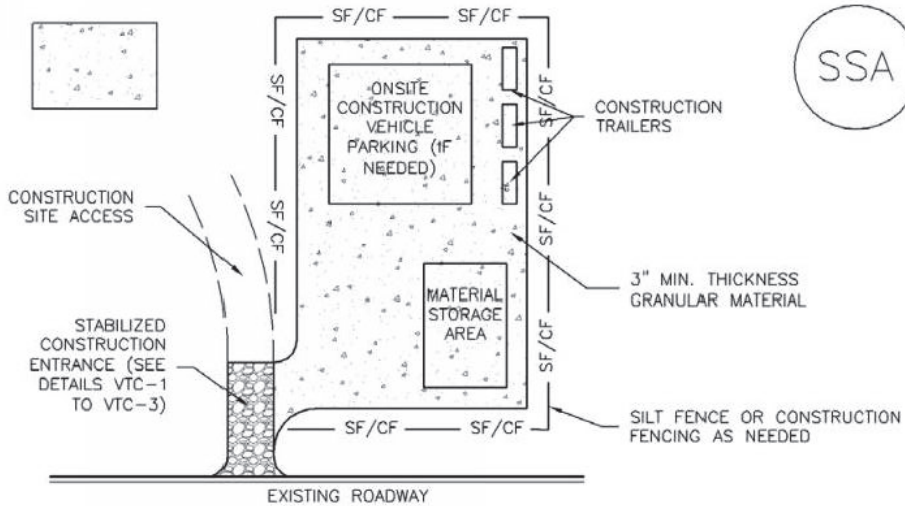
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ELEVATION = 6196.72 (NAVD 88)

BASIS OF BEARING:

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SSA-1. STABILIZED STAGING AREA

STABILIZED STAGING AREA INSTALLATION NOTES

1. STABILIZED STAGING AREA SHOULD BE APPROPRIATE FOR THE NEEDS OF THE SITE. OVERSIZING RESULTS IN A LARGER AREA TO STABILIZE FOLLOWING CONSTRUCTION.
2. STAGING AREA SHALL BE STABILIZED PRIOR TO OTHER OPERATIONS ON THE SITE.
3. THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM 3" THICK GRANULAR MATERIAL.
4. UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.
5. ADDITIONAL PERIMETER BMPs MAY BE REQUIRED INCLUDING BUT NOT LIMITED TO SILT FENCE AND CONSTRUCTION FENCING.

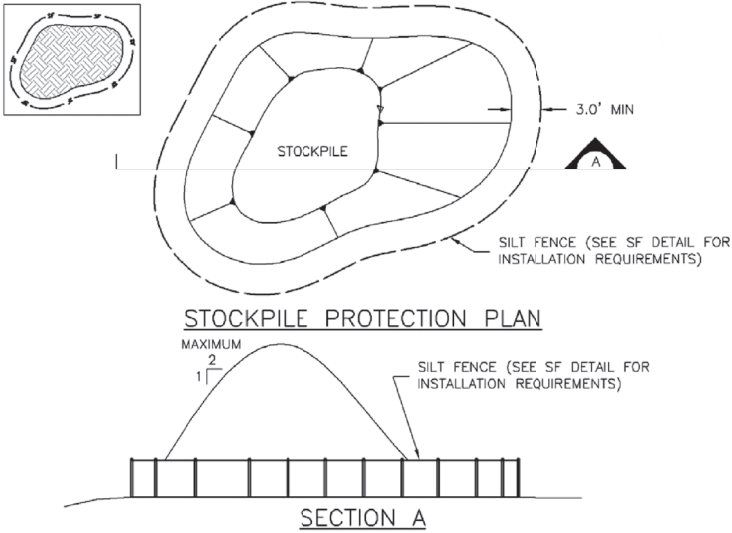
STABILIZED STAGING AREA MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
4. ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY IF RUTTING OCCURS OR UNDERLYING SUBGRADE BECOMES EXPOSED.

STABILIZED STAGING AND STORAGE AREA

NO SCALE

SSA



SP-1. STOCKPILE PROTECTION

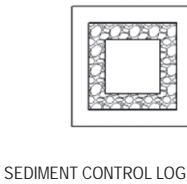
STOCKPILE PROTECTION INSTALLATION NOTES

1. INSTALL PERIMETER CONTROLS IN ACCORDANCE WITH THEIR RESPECTIVE DESIGN DETAILS. SILT FENCE IS SHOWN IN THE STOCKPILE PROTECTION DETAILS; HOWEVER, OTHER TYPES OF PERIMETER CONTROLS INCLUDING SEDIMENT CONTROL LOGS OR ROCK SOCKS MAY BE SUITABLE IN SOME CIRCUMSTANCES. CONSIDERATIONS FOR DETERMINING THE APPROPRIATE TYPE OF PERIMETER CONTROL FOR A STOCKPILE INCLUDE WHETHER THE STOCKPILE IS LOCATED ON A PERVIOUS OR IMPERVIOUS SURFACE, THE RELATIVE HEIGHTS OF THE PERIMETER CONTROL AND STOCKPILE, THE ABILITY OF THE PERIMETER CONTROL TO CONTAIN THE STOCKPILE WITHOUT FAILING IN THE EVENT THAT MATERIAL FROM THE STOCKPILE SHIFTS OR SLUMPS AGAINST THE PERIMETER, AND OTHER FACTORS.
2. STABILIZE THE STOCKPILE SURFACE WITH SURFACE ROUGHENING, TEMPORARY SEEDING AND MULCHING, EROSION CONTROL BLANKETS, OR SOIL BINDERS. SOILS STOCKPILED FOR AN EXTENDED PERIOD (TYPICALLY FOR MORE THAN 60 DAYS) SHOULD BE SEED AND MULCHED WITH A TEMPORARY GRASS COVER ONCE THE STOCKPILE IS PLACED (TYPICALLY WITHIN 14 DAYS). USE OF MULCH ONLY OR A SOIL BINDER IS ACCEPTABLE IF THE STOCKPILE WILL BE IN PLACE FOR A MORE LIMITED TIME PERIOD (TYPICALLY 30-60 DAYS).
3. FOR TEMPORARY STOCKPILES ON THE INTERIOR PORTION OF A CONSTRUCTION SITE, WHERE OTHER DOWNGRADIENT CONTROLS, INCLUDING PERIMETER CONTROL, ARE IN PLACE, STOCKPILE PERIMETER CONTROLS MAY NOT BE REQUIRED.

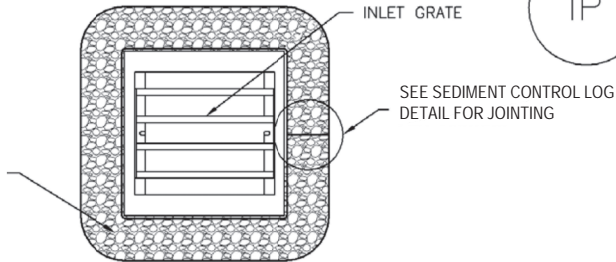
STOCKPILE PROTECTION

NO SCALE

SP



SEDIMENT CONTROL LOG



IP-3. SEDIMENT CONTROL LOG SUMP/AREA INLET PROTECTION

- INSTALLATION NOTES:
1. SEE SEDIMENT CONTROL LOG DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.

INLET PROTECTION

NO SCALE

IP



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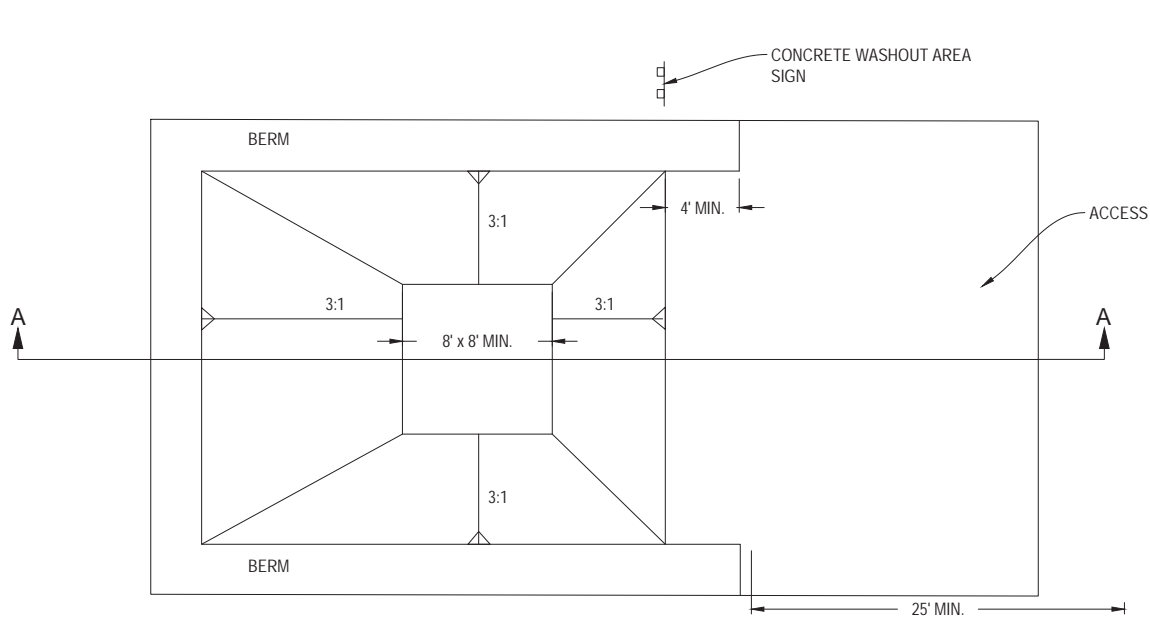
ASPEN / SOPRIS RANGER DISTRICT

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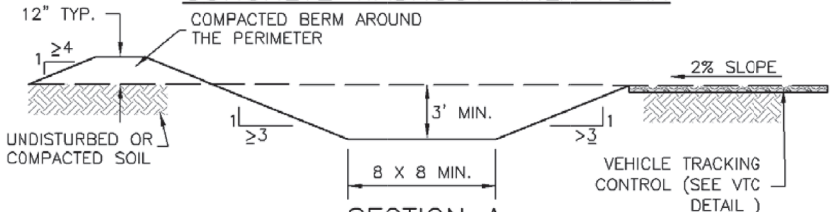
EROSION CONTROL
DETAILS

ARCHIVE NO.

DESIGNER TFS	SUB SHEET NO.
CHECKED DCW	C402
DATE 07/09/20	SHEET 16 OF 119



CONCRETE WASHOUT AREA PLAN

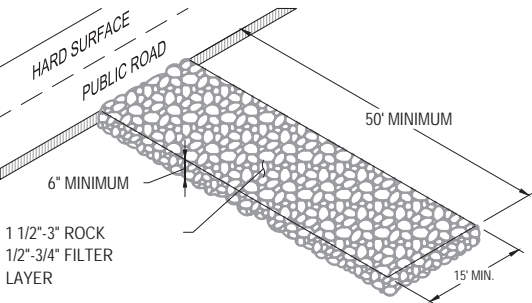


SECTION A

CWA-1. CONCRETE WASHOUT AREA

CWA INSTALLATION NOTES

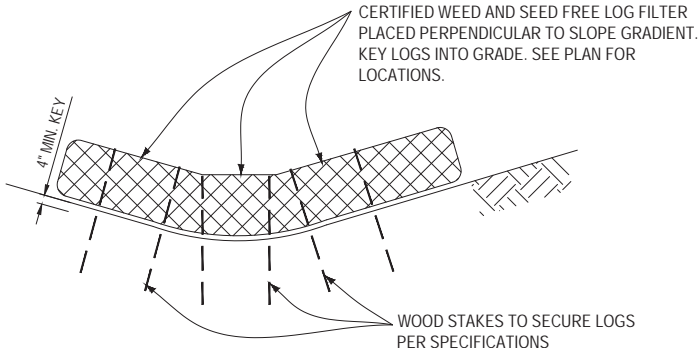
- DO NOT LOCATE AN UNLINED CWA WITHIN 400' OF ANY NATURAL DRAINAGE PATHWAY OR WATERBODY. DO NOT LOCATE WITHIN 1,000' OF ANY WELLS OR DRINKING WATER SOURCES. IF SITE CONSTRAINTS MAKE THIS INFEASIBLE, OR IF HIGHLY PERMEABLE SOILS EXIST ON SITE, THE CWA MUST BE INSTALLED WITH AN IMPERMEABLE LINER (16 MIL MIN. THICKNESS) OR SURFACE STORAGE ALTERNATIVES USING PREFABRICATED CONCRETE WASHOUT DEVICES OR A LINED ABOVE GROUND STORAGE ARE SHOULD BE USED.
- THE CWA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
- CWA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8' BY 8' SLOPES LEADING OUT OF THE SUBSURFACE PIT SHALL BE 3:1 OR FLATTER. THE PIT SHALL BE AT LEAST 3' DEEP.
- BERM SURROUNDING SIDES AND BACK OF THE CWA SHALL HAVE MINIMUM HEIGHT OF 1'.
- SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CWA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CWA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
- USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.



VEHICLE TRACKING CONTROL

NO SCALE

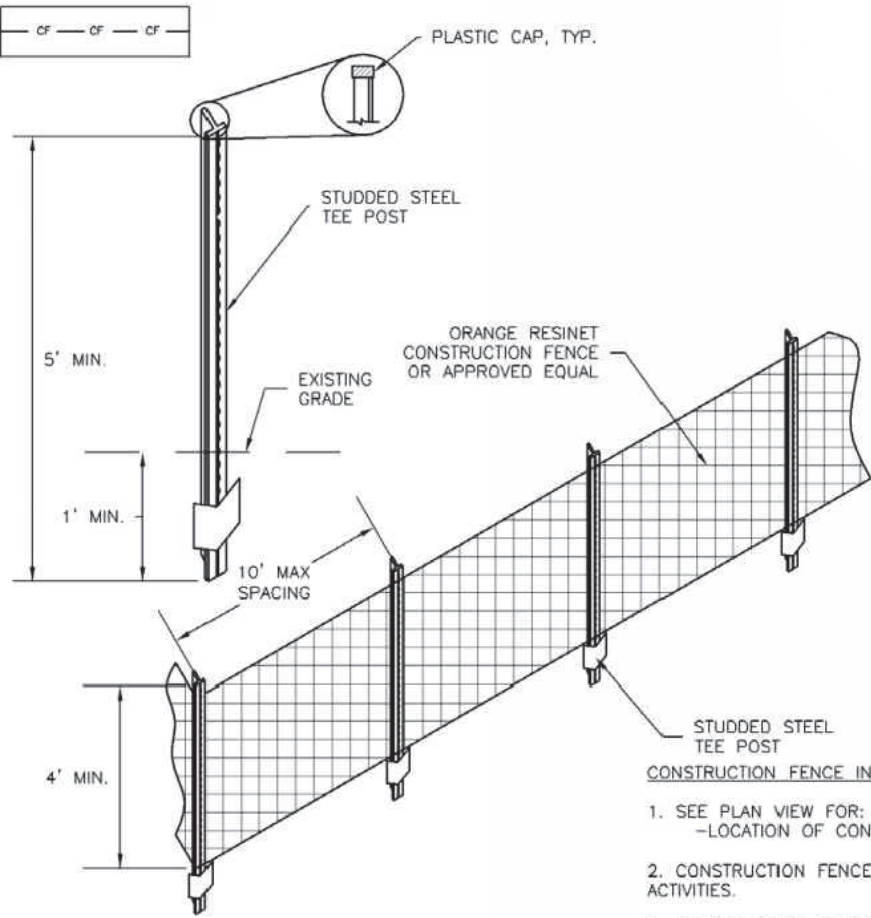
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SEDIMENT CONTROL LOG

NO SCALE

SCL



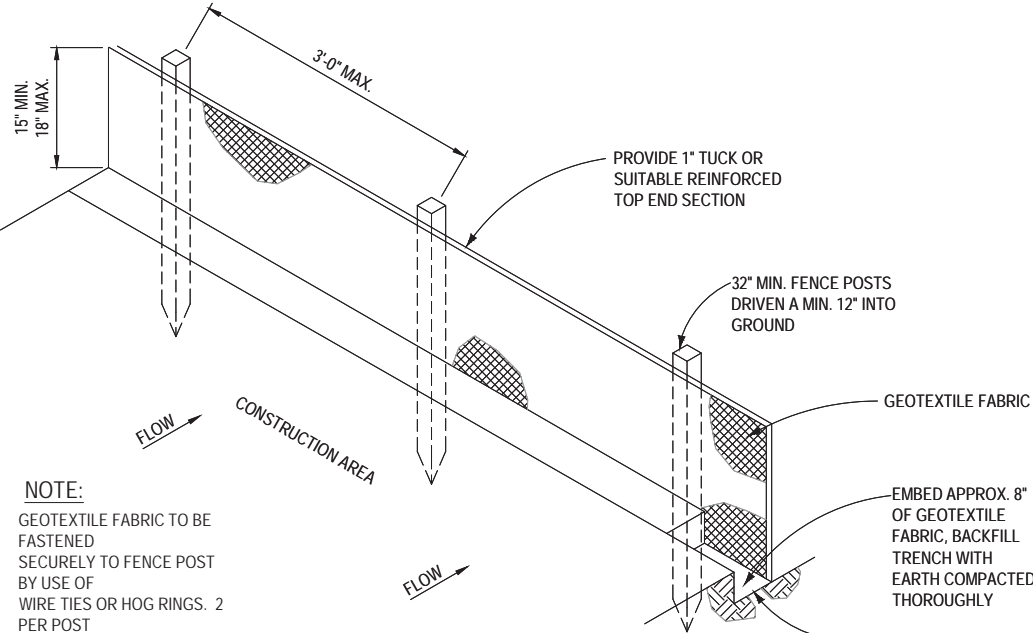
CONSTRUCTION FENCE

NO SCALE

CF

CONSTRUCTION FENCE INSTALLATION NOTES

- SEE PLAN VIEW FOR: -LOCATION OF CONSTRUCTION FENCE.
- CONSTRUCTION FENCE SHOWN SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
- CONSTRUCTION FENCE SHALL BE COMPOSED OF BLACK , CONTRACTOR-GRADE MATERIAL THAT IS AT LEAST 4' HIGH. METAL POSTS SHOULD HAVE A PLASTIC CAP FOR SAFETY.
- STUDED STEEL TEE POSTS SHALL BE UTILIZED TO SUPPORT THE CONSTRUCTION FENCE. MAXIMUM SPACING FOR STEEL TEE POSTS SHALL BE 10'.
- CONSTRUCTION FENCE SHALL BE SECURELY FASTENED TO THE TOP, MIDDLE, AND BOTTOM OF EACH POST.
- CONTRACTOR SHALL INSTALL FREE-STANDING CHAIN LINK FENCE OR TEMPORARY CONCRETE BARRIER ON EXISTING PAVED SURFACES TO DEFINE CONSTRUCTION AREAS AND PREVENT PUBLIC ACCESS INTO THE CONTRACTOR'S WORK AREA. CONCRETE BARRIER SHALL BE INSTALLED SO AS TO AVOID EXPOSED END TO VEHICULAR TRAFFIC.



SILT FENCE

NO SCALE

SF

NOTE:
GEOTEXTILE FABRIC TO BE FASTENED SECURELY TO FENCE POST BY USE OF WIRE TIES OR HOG RINGS. 2 PER POST



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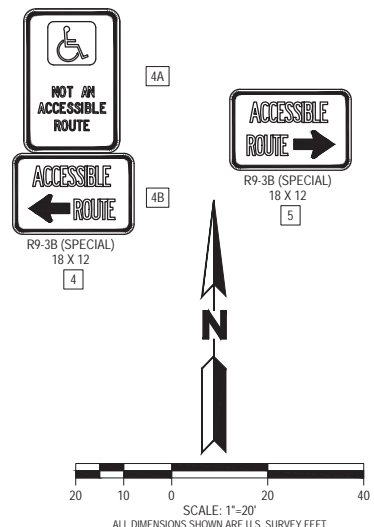
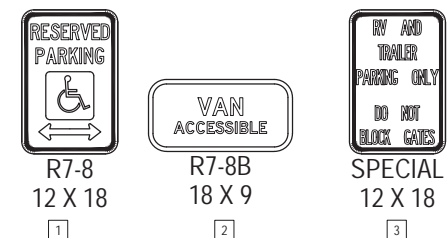
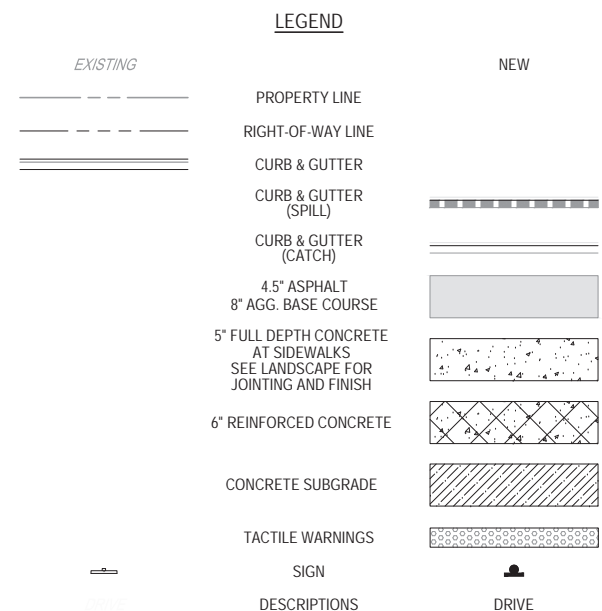
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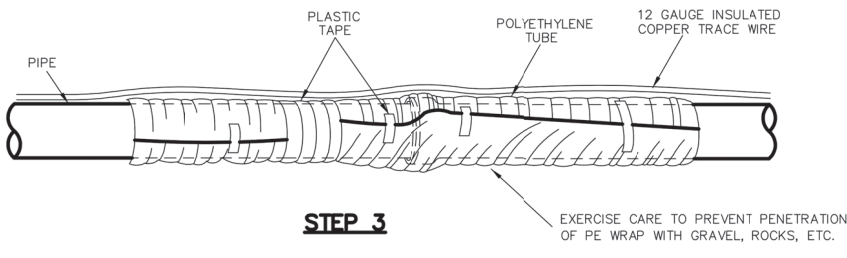
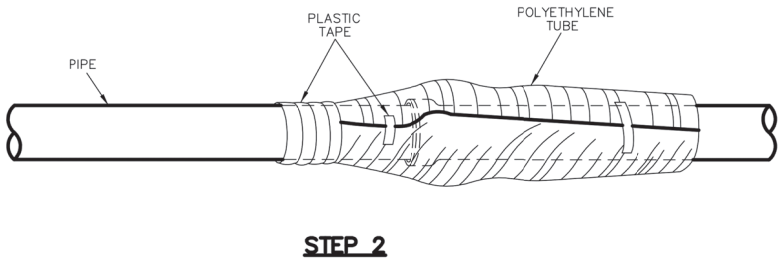
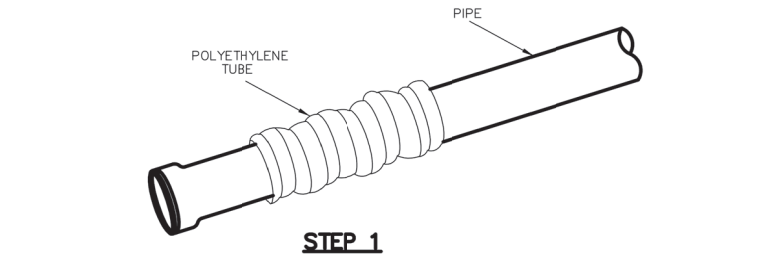
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BEARINGS ARE BASED ON THE MODIFIED COLORADO CENTRAL STATE PLANE (NAD 1983 (2011)) BEARING OF N44°47'54"E A DISTANCE OF 6463.17 FEET BETWEEN NGS BENCHMARK D 156 (A 3 1/4" BRASS CAP SET IN CONCRETE) AND NGS POINT WEISHARR (A STEEL ROD IN SLEEVE IN A NGS LOGO BOX. COORDINATES ARE MODIFIED COLORADO CENTRAL STATE PLANE COORDINATES (NAD 1983 (2011)) USING A COMBINED SCALE FACTOR OF 0.999655313

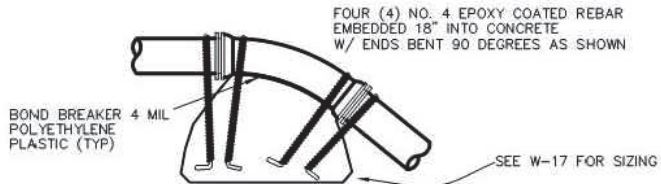


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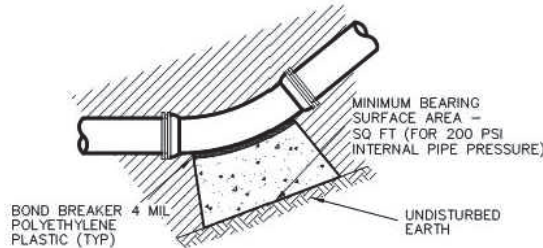


FIELD INSTALLATION – POLYETHYLENE WRAP
WHERE SPECIFICALLY REQUIRED FOR SOIL APPLICATIONS
STEP 1 – PLACE TUBE OF POLYETHYLENE MATERIAL ON PIPE PRIOR TO LOWERING IT INTO PLACE
STEP 2 – PULL THE TUBE OVER THE LENGTH OF THE PIPE. TAPE TUBE TO PIPE AT JOINT. FOLD MATERIAL AROUND THE ADJACENT SPIGOT END AND WRAP WITH TAPE TO HOLD THE PLASTIC TUBE IN PLACE.
STEP 3 – OVERLAP FIRST TUBE WITH ADJACENT TUBE AND SECURE WITH PLASTIC ADHESIVE TAPE. THE POLYETHYLENE TUBE MATERIAL COVERING THE PIPE SHALL BE LOOSE. EXCESS MATERIAL SHALL BE NEATLY DRAWN UP AROUND THE PIPE BARREL, FOLDED ON TOP OF PIPE AND TAPED IN PLACE.

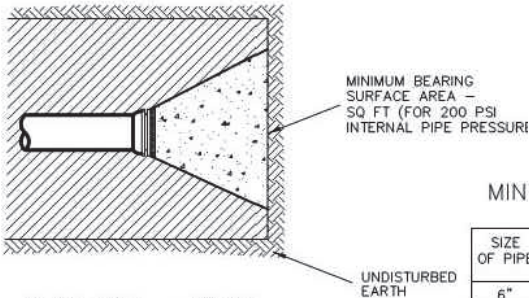
POLYETHYLENE WRAP



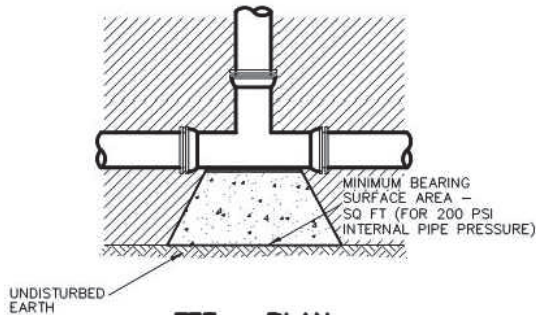
VERTICAL THRUST BLOCK – SECTION



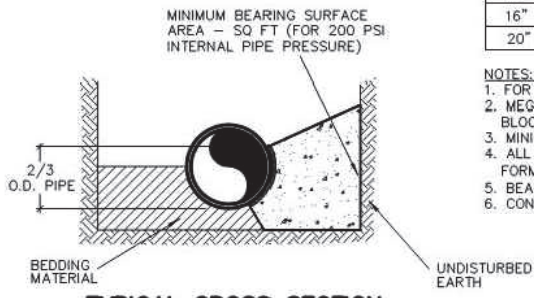
BENDS – PLAN



DEAD END – PLAN

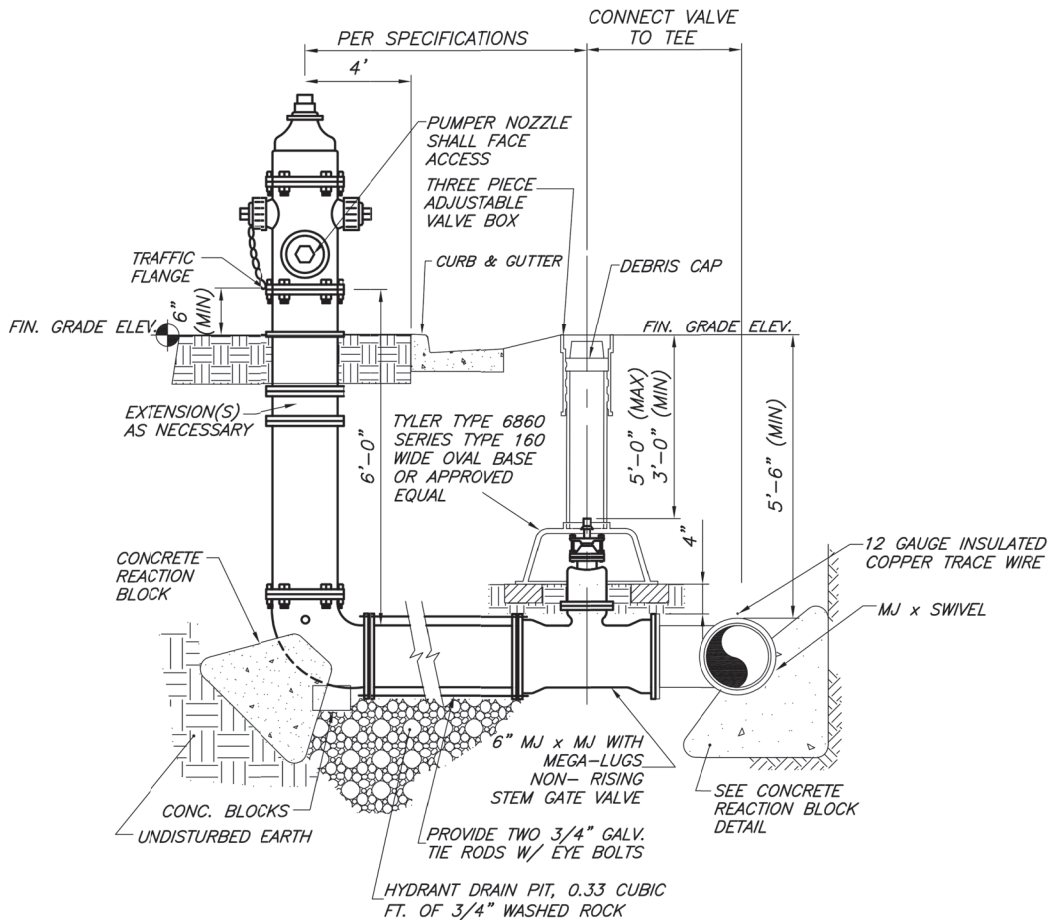


TEE – PLAN



TYPICAL CROSS SECTION

CONCRETE THRUST BLOCKS



- NOTES:**
- 1) ALL JOINTS FROM MAIN TO HYDRANT SHALL BE RESTRAINED MECHANICAL JOINTS
 - 2) HYDRANT, VALVE AND FITTINGS TO BE 250 P.S.I. RATED.
 - 3) POLYETHYLENE WRAP SHALL COVER D.I.P. ASSEMBLY FROM HYDRANT BASE TO WATER MAIN.
 - 4) ALL HYDRANT LEAD PIPING TO BE 6" CLASS 250 D.I.P. UNLESS OTHERWISE NOTED
 - 5) CENTERLINE OF HYDRANT TO BE 4'-0" FROM BACK OF CURB UNLESS OTHERWISE NOTED.
 - 6) INSTALL VALVE STEM EXTENSION AS NEEDED TO INSURE THE DISTANCE FROM VALVE BOX LID TO TOP OF NUT SHALL NOT EXCEED 5'-0"

FIRE HYDRANT ASSEMBLY INSTALLATION DETAIL

MINIMUM BEARING SURFACE (SF) FOR 200 PSI AND LESS

SIZE OF PIPE	BENDS				TEE OR DEAD END
	11-1/4°	22-1/2°	45°	90°	
6"	1.3	2.5	5.0	9.0	6.4
8"	1.3	2.5	5.0	9.0	6.4
10"	1.9	3.8	7.4	13.7	9.7
12"	2.7	5.4	10.5	19.3	13.7
16"	4.7	9.3	9.1	33.6	23.8
20"	7.2	14.3	28.0	51.8	36.6

MINIMUM BEARING SURFACE (SF) FOR 250 PSI AND LESS

SIZE OF PIPE	BENDS				TEE OR DEAD END
	11-1/4°	22-1/2°	45°	90°	
6"	1.6	3.1	6.2	11.4	8.0
8"	1.6	3.1	6.2	11.4	8.0
10"	2.4	4.7	9.25	17.1	12.0
12"	3.4	6.7	13.1	24.2	17.1
16"	5.8	11.6	22.7	42.0	29.7
20"	9.0	17.9	35.0	64.8	45.8

- NOTES:**
1. FOR 200 PSI INTERNAL PRESSURE, INCLUDING WATER HAMMER
 2. MEGALUG RESTRAINTS MAY BE USED IN CONJUNCTION WITH THRUST BLOCKS WITH PRIOR APPROVAL FROM THE DISTRICT
 3. MINIMUM AREA REQUIRED WILL BE THAT OF AN 8-INCH MAIN
 4. ALL THRUST BLOCKS SHALL BE FORMED. THE MINIMUM THICKNESS FORM MATERIAL SHALL BE 3/8" PLYWOOD
 5. BEARING AREA BASED ON SOIL BEARING PRESSURE OF 2000 lb/sf
 6. CONCRETE SHALL HAVE A 28 DAY COMPRESSION STRENGTH OF 3000 psi

NOTE

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R2

ROCKY MOUNTAIN
REGION

STAMPS, LOGOS, AND SEALS



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ASPEN-SOPRIS
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ASPEN / SOPRIS RANGER DISTRICT

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ARCHIVE NO.

DESIGNER

TFS

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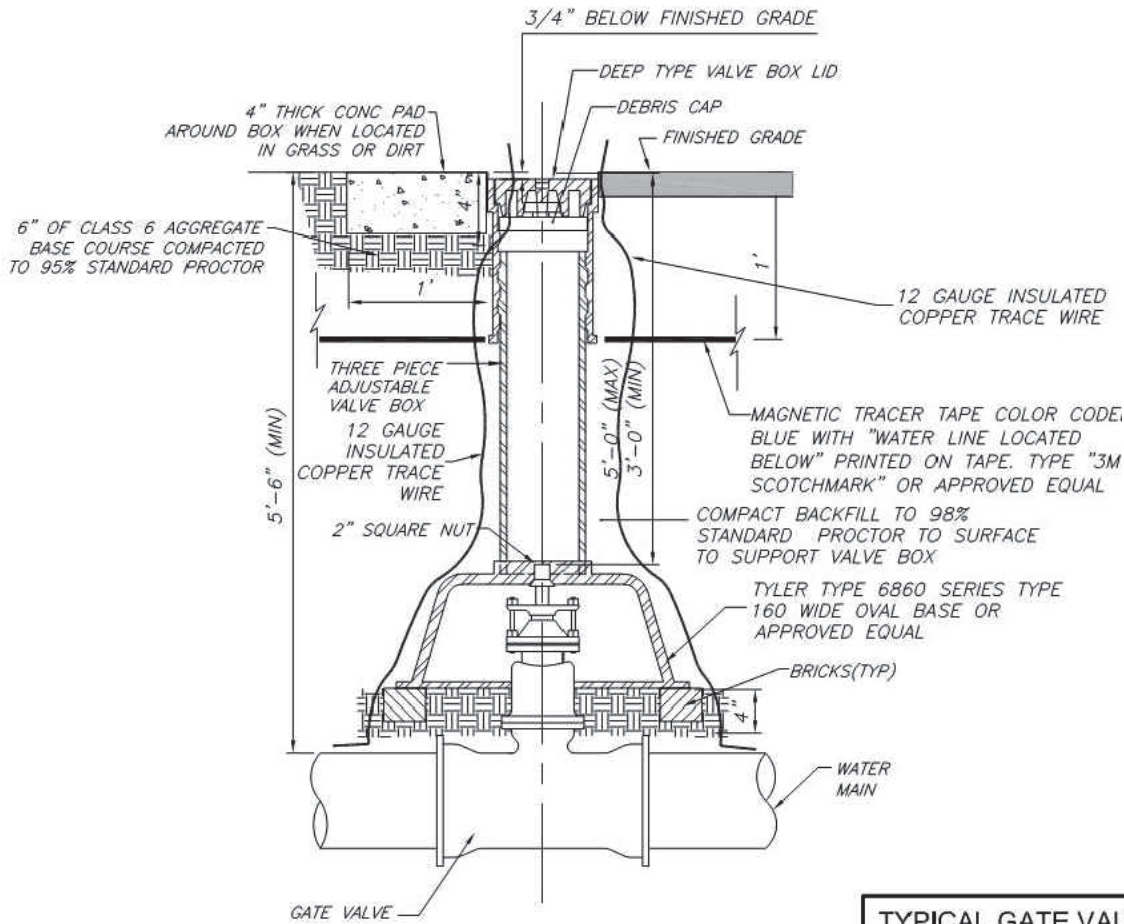
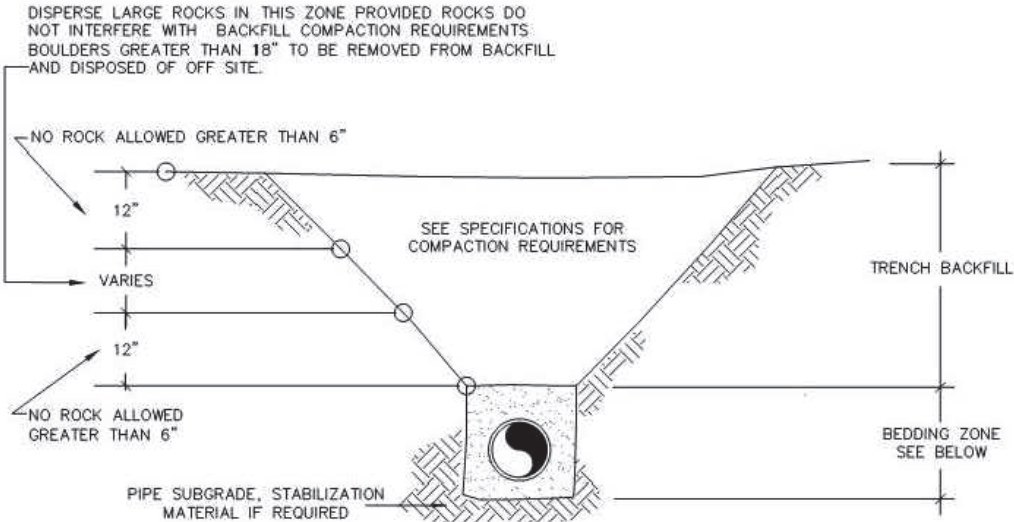
ASPEN / SOPRIS RANGER DISTRICT

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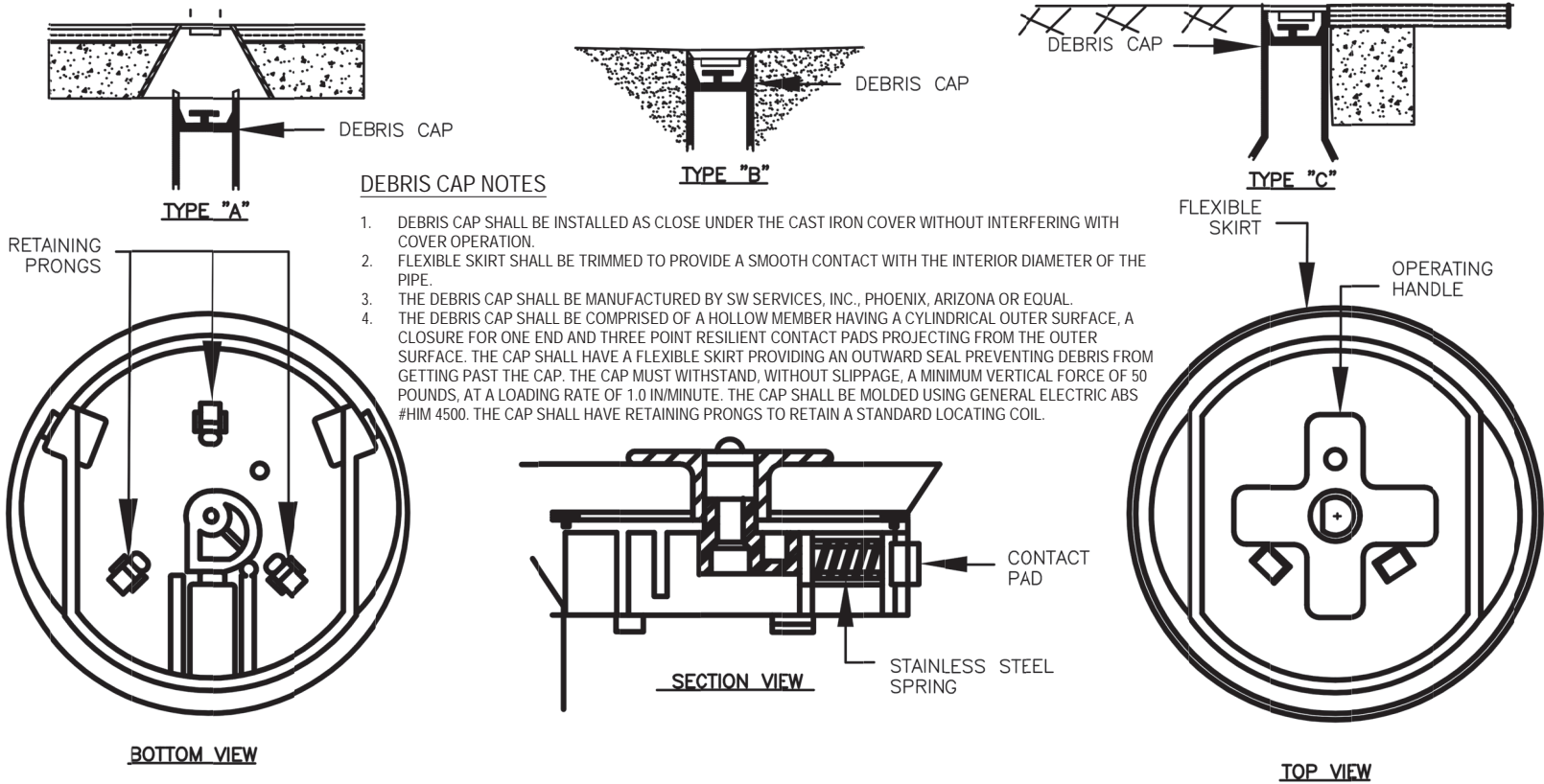
TOWN OF
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- NOTES:
1. ALL VALVES ADJACENT TO FITTING SHALL BE M.J. IN LINE VALVES TO BE MJ x M.J. DESIGN LOCATIONS OF VALVES ARE OUTSIDE OF CONCRETE, CURB/GUTTER AND VALLEY PANS.
 2. INSTALLED VALVES WHICH CONFLICT WITH CONCRETE AREAS SHALL BE RELOCATED AT THE CONTRACTOR'S EXPENSE.
 3. THIS DETAIL DOES NOT APPLY TO HYDRANT ASSEMBLY VALVES.
 4. INSTALL VALVE STEM EXTENSION AS NEEDED TO INSURE THE DISTANCE FROM VALVE BOX LID TO TOP OF NUT SHALL NOT EXCEED 5'-0"
 5. THE TRACER WIRE SHALL BE EXTENDED TO THE SURFACE AT ALL VALVES AND FIRE HYDRANTS. THE WIRE SHALL BE EXTENDED TOWARDS THE GROUND ON THE OUTSIDE OF THE VALVE BOX UNTIL THE WIRE IS WITHIN FOUR INCHES (4") OF THE TOP OF THE LID, AT WHICH POINT IT SHALL BE BROUGHT BACK INSIDE THE BOX AND SECURELY FASTENED. SUFFICIENT SLACK IN THE OUTSIDE OF THE WIRE SHALL BE PROVIDED TO COMPENSATE FOR ANY FUTURE ADJUSTMENT TO THE VALVE BOX.

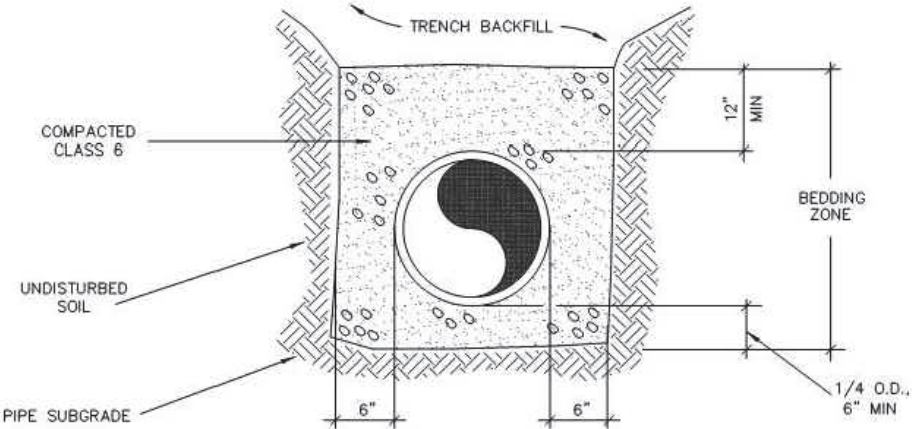


TYPICAL GATE VALVE



DEBRIS CAP INSTALLATION

TRENCH ZONES

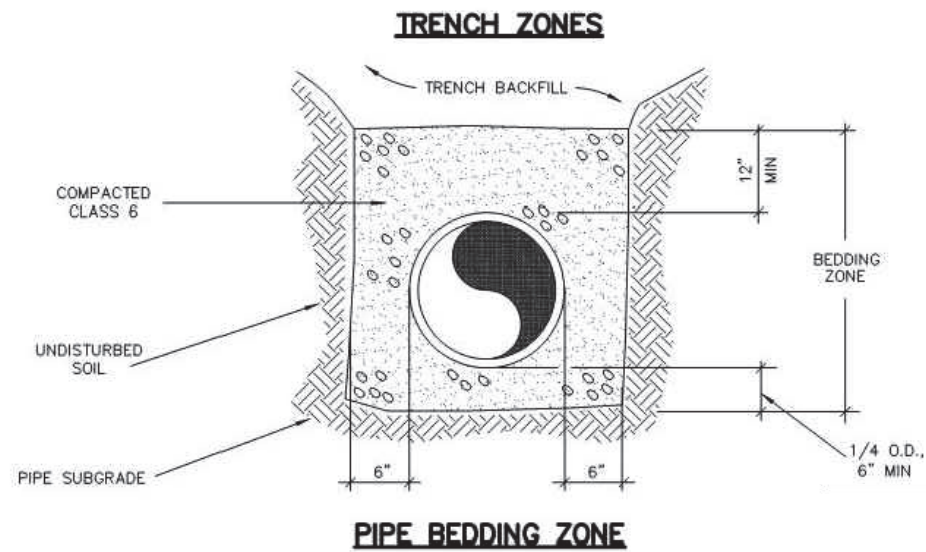
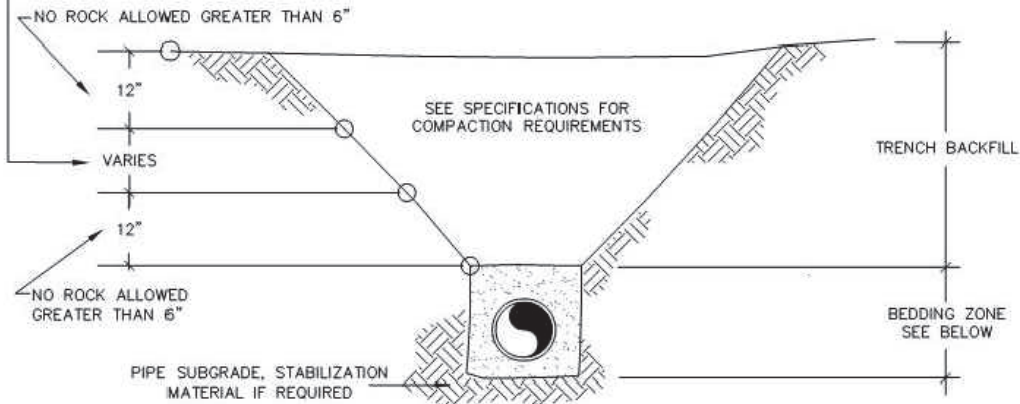


PIPE BEDDING ZONE

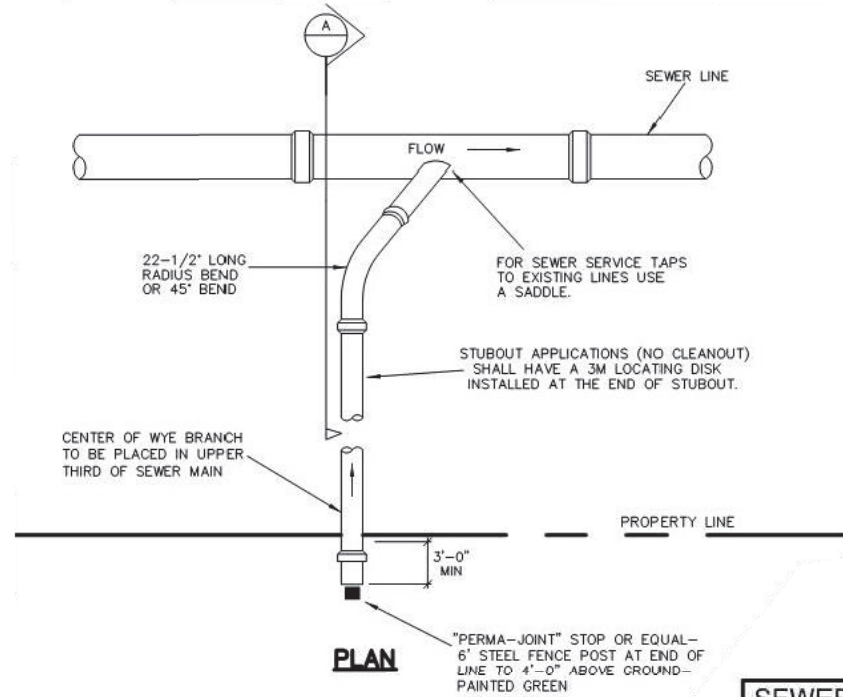
WATER PIPE BEDDING

- NOTE
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DISPERSE LARGE ROCKS IN THIS ZONE PROVIDED ROCKS DO NOT INTERFERE WITH BACKFILL COMPACTION REQUIREMENTS BOULDERS GREATER THAN 18" TO BE REMOVED FROM BACKFILL AND DISPOSED OF OFF SITE.

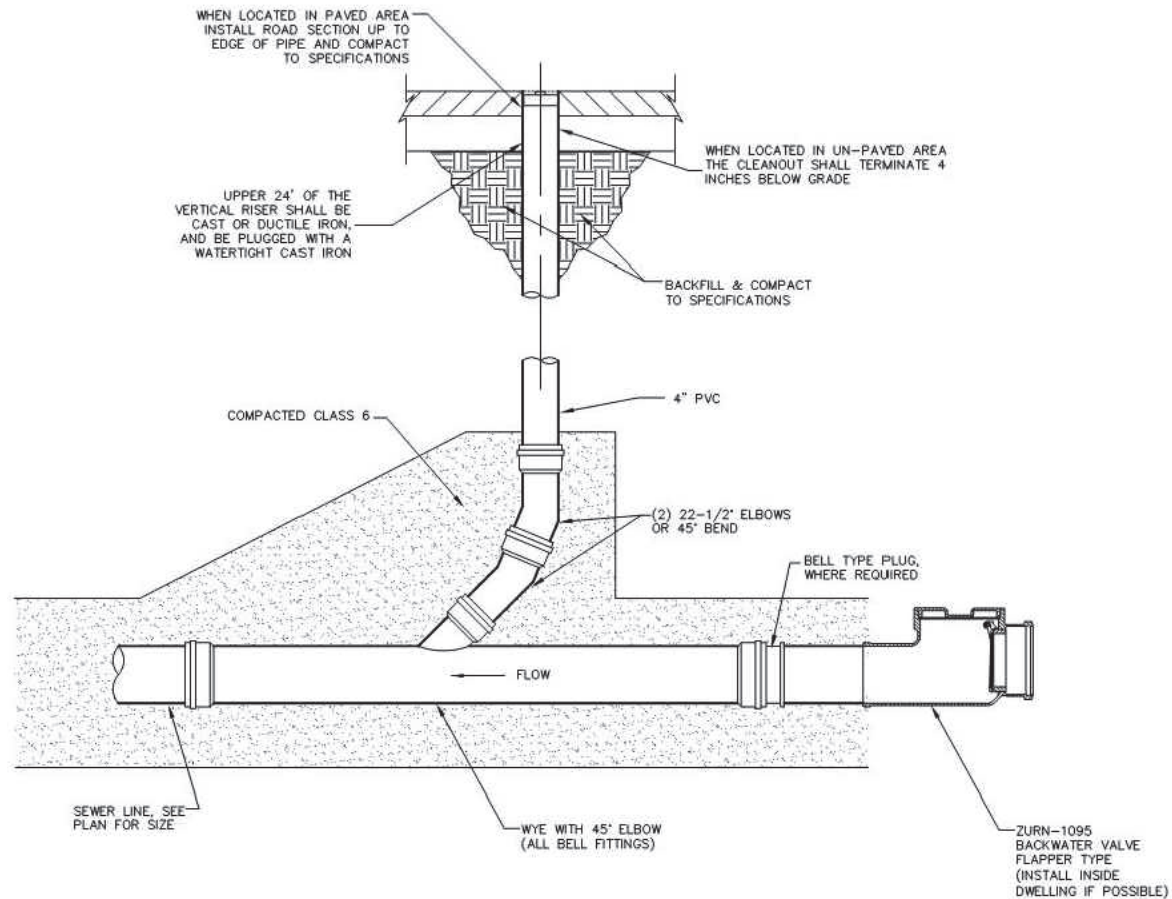


SEWER PIPE BEDDING



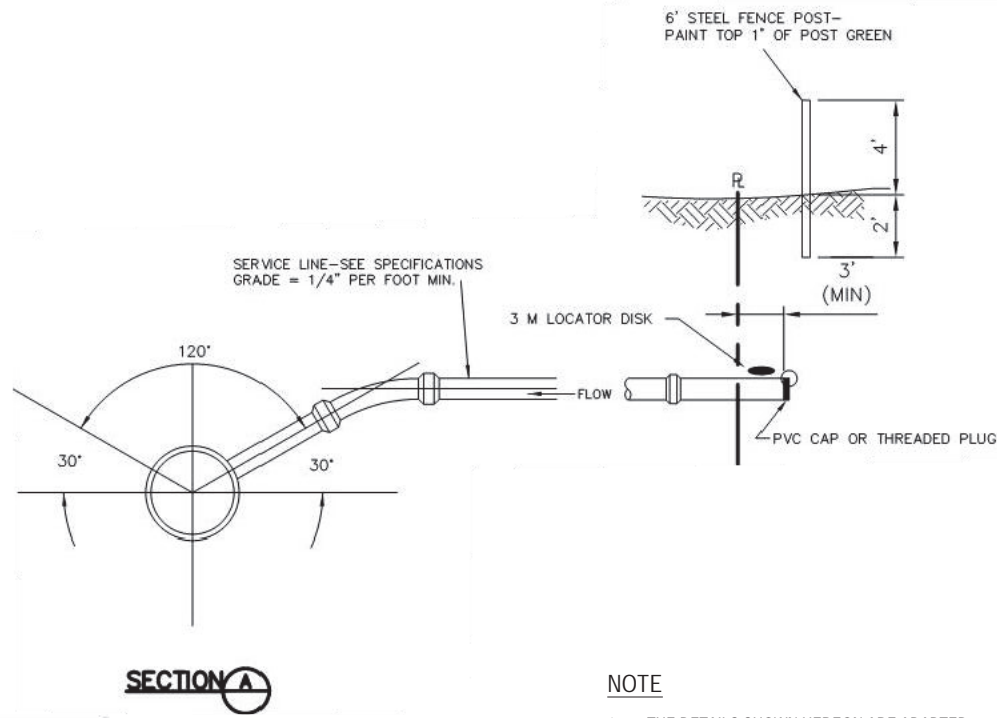
NOTES:
1. MINIMUM SEPARATION BETWEEN TAPS SHALL BE 18"
2. BACKFILL UNDER WYE TO BE CLASS 6 AGGREGATE BASE COURSE. 95% COMPACTION DENSITY PER ASTM D-698.

SEWER SERVICE CONNECTION



SEWER CLEAN-OUT

NOTES:
1. FOR SKIWAY APPLICATIONS WHERE MANHOLE AND RINGS ARE USED TO COVER CLEANOUT, 3M LOCATING DISK SHALL ALSO BE INSTALLED 1' TO 2' BELOW MANHOLE RING AND COVER



NOTE
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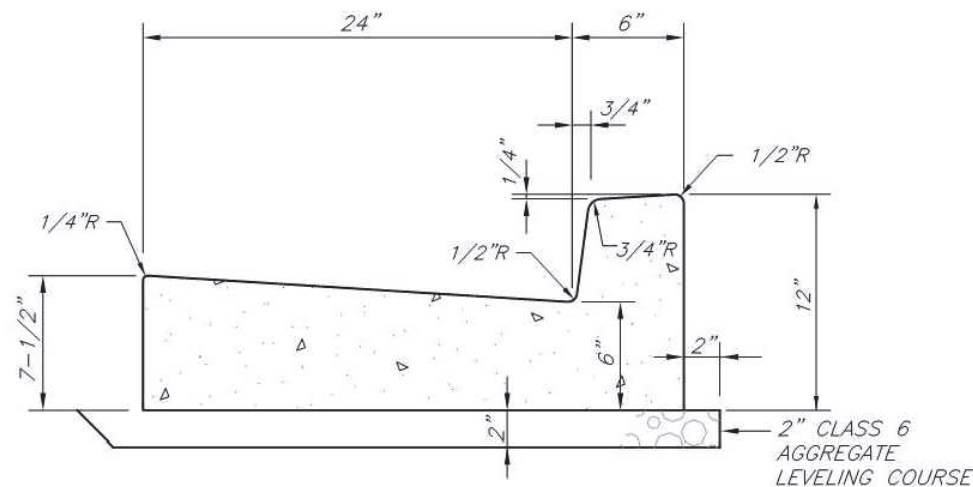
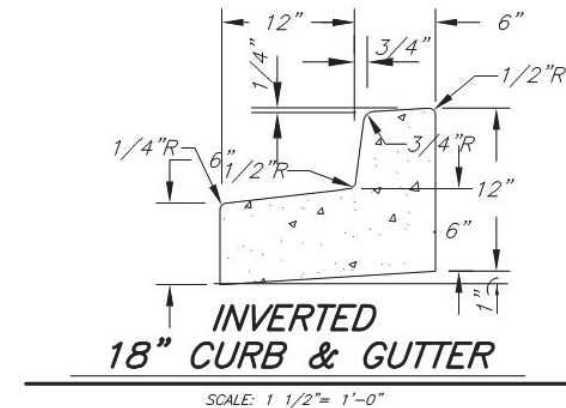
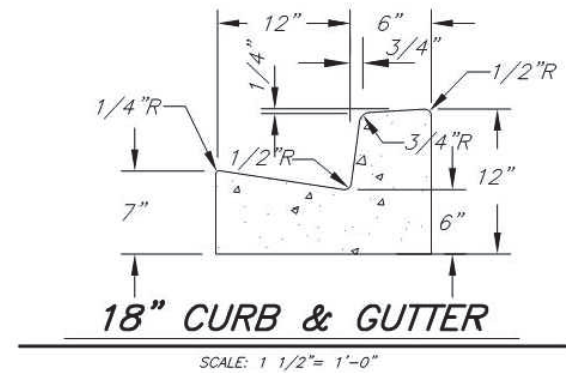
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DETAILS

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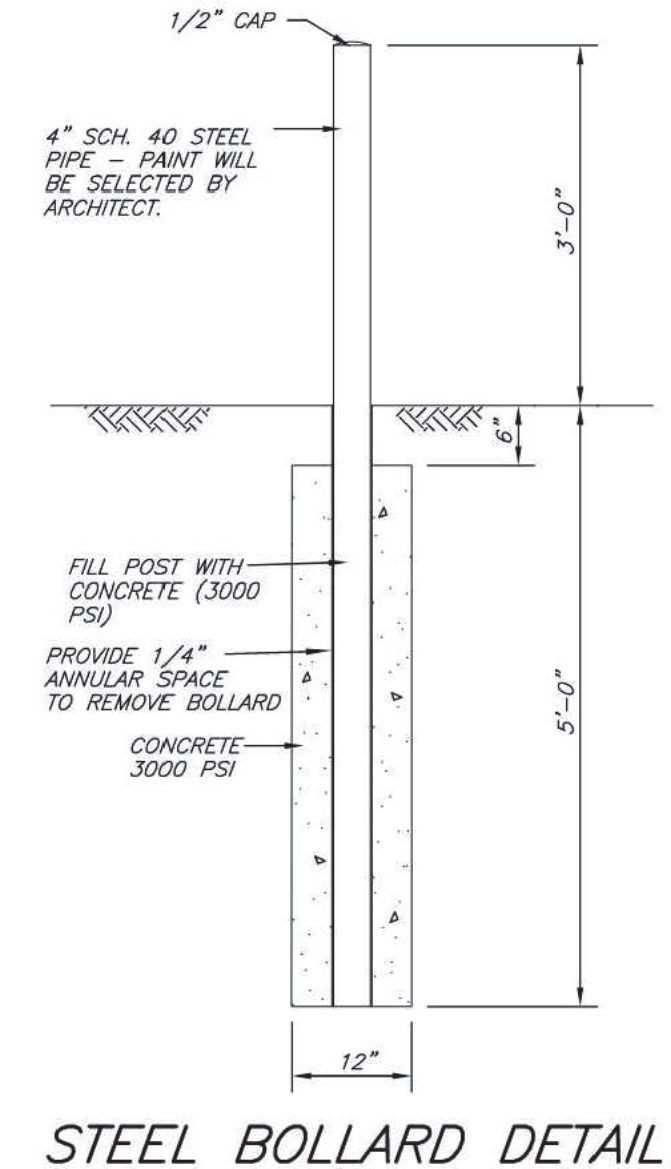
STANDARD 30" CURB & GUTTER

CONCRETE FOR FLATWORK AND CURB/GUTTER

- 1) EXPANSION JOINTS: 100' ON CENTER AND AT DRIVEWAYS.
- 2) DUMMY JOINTS: 1" DEEP BY 1/8" - 1/4" WIDTH AT INTERVALS EQUAL TO SIDEWALK WIDTH.
- 3) USE 1/4" RADIUS ON ALL EDGES.
- 4) USE 6" DEPTH OF CONCRETE ON ALL DRIVEWAYS.
- 5) CURE FOR 72 HOURS USING CURING COMPOUND, PLASTIC COVERING OR MOISTURE.
- 6) USE 3750 PSI CONCRETE WITH FIBERMESH ADDITIVE AT 1-1/2 LBS./C.Y. MAXIMUM SLUMP 4".

NOTE:

1. SEE PLANS FOR LOCATIONS OF 2 FOOT CATCH VERSUS 1 FOOT CATCH CURB AND GUTTER.



NOTE

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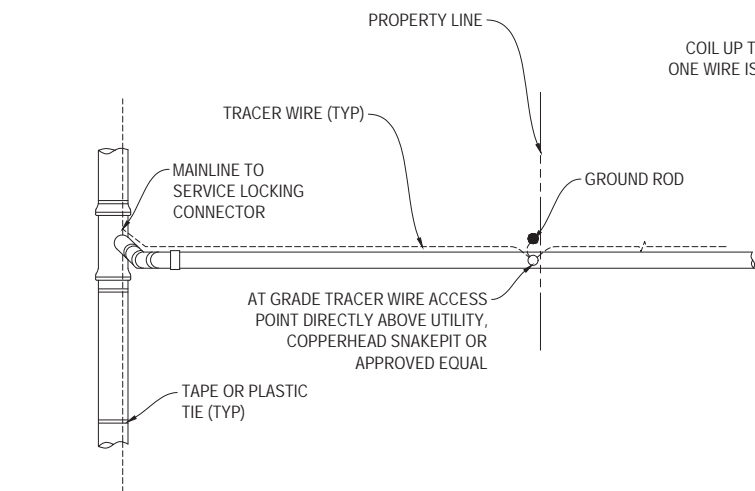
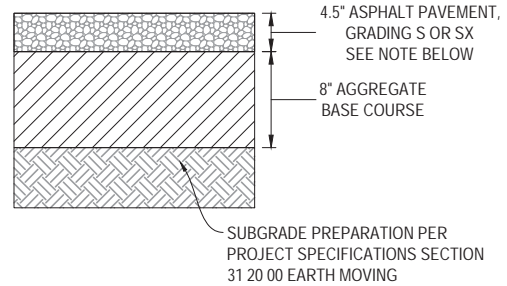
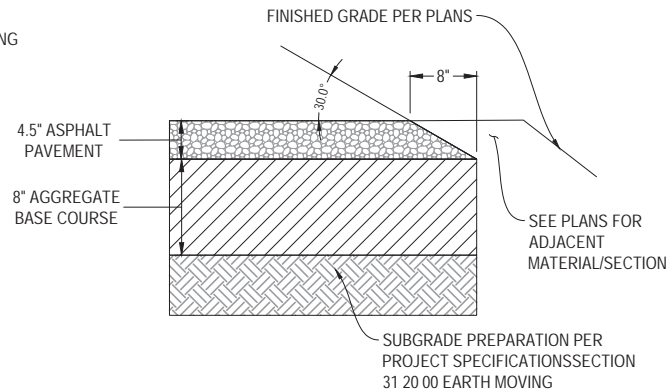
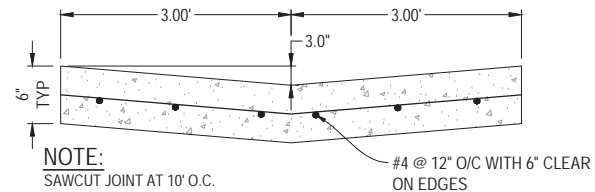
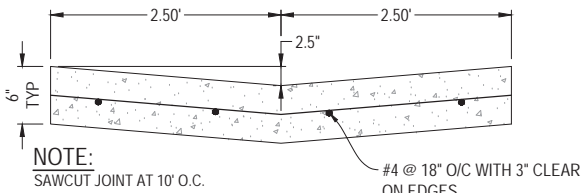
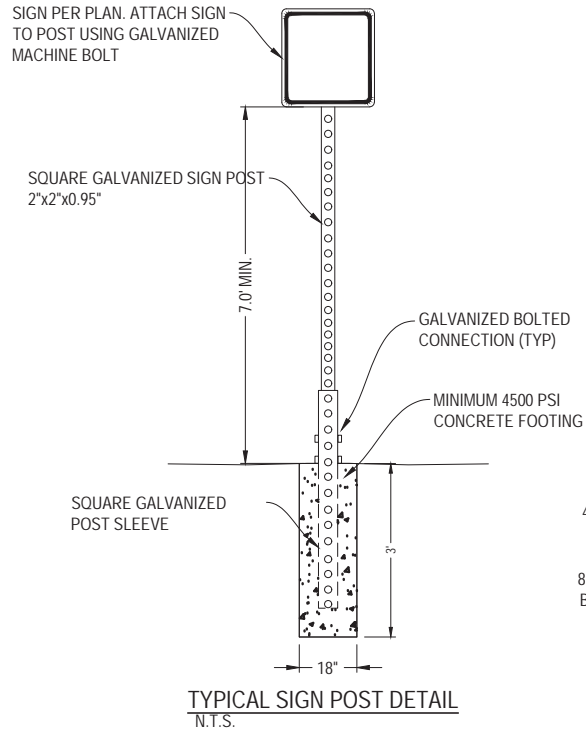
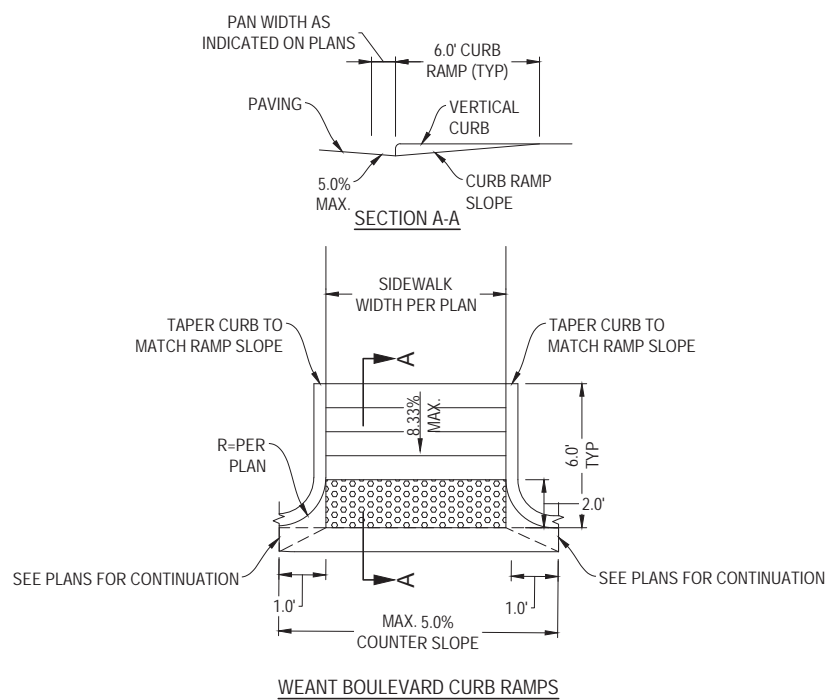
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**TOWN OF
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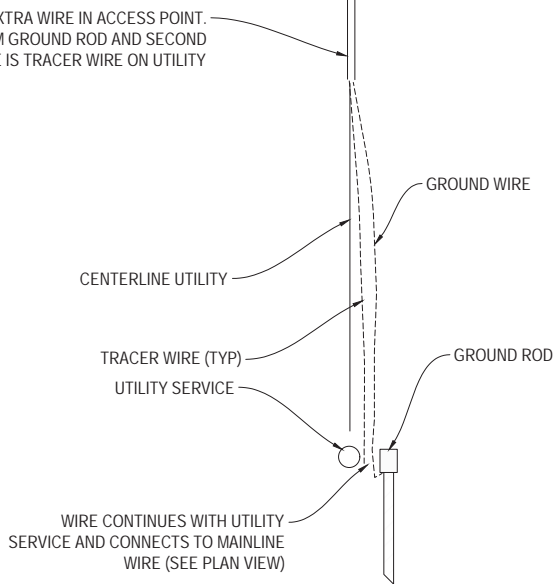
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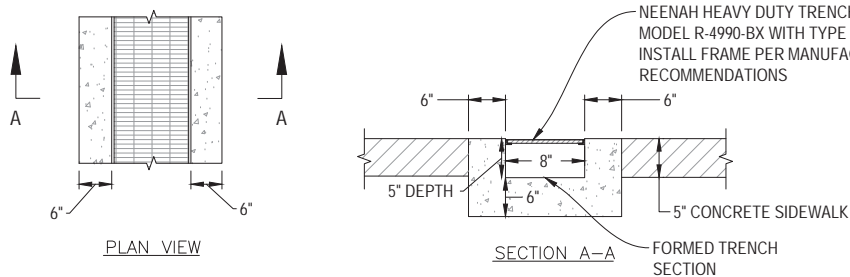
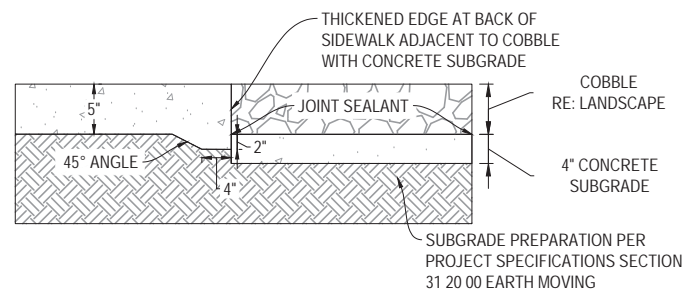
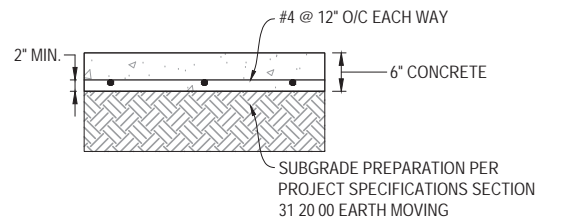
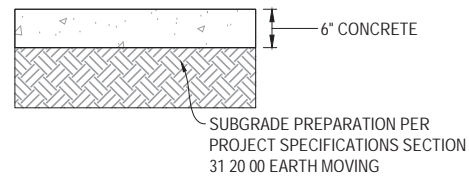
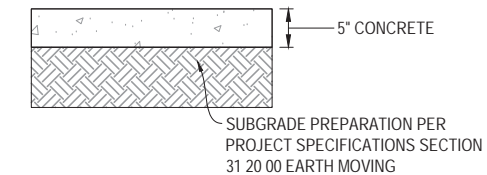
NOTES

1. WIRE SHALL BE INSTALLED ALONG THE NORTH OR EAST SIDE OF THE UTILITY SERVICE. THE WIRE SHALL BE FASTENED TO THE PIPE WITH TAPE OR PLASTIC TIES AT 5' INTERVALS.
2. MAXIMUM DISTANCE FROM TEST STATION TO GROUND IS 1,000 FEET.
3. SUBMIT UTILITY LOCATE SYSTEM FOR REVIEW.

TRACER WIRE UTILITY SERVICE - PLAN VIEW
NOT TO SCALE



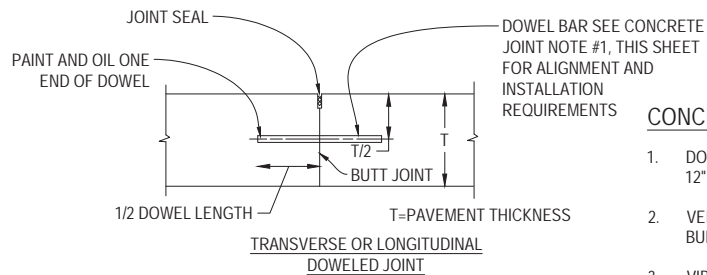
TRACER WIRE UTILITY SERVICE - SECTION VIEW
NOT TO SCALE



NOTES:

1. INSTALL SIDEWALK CHASE COVER AND FRAMES PER MANUFACTURER'S RECOMMENDATIONS.
2. SIDEWALK CHASE SHALL BE TRAFFIC RATED ADA COMPLIANT AND HEEL RESISTANT.
3. SIDEWALK CHASE COVER/GRATE SHALL BE SUBMITTED TO CONTRACTING OFFICER FOR APPROVAL.

SIDEWALK CHASE DRAIN
NOT TO SCALE



CONCRETE JOINT NOTES

1. DOWEL BARS ARE 1" Ø (EPOXY COATED) 18" LONG SPACED @ 12" O.C. AND ARE TO BE 12" (MIN.) TO 16" (MAX.) FROM A PANEL CORNER.
2. VERIFY WITH STRUCTURAL AND ARCHITECTURAL PLANS FOR JOINTING AROUND BUILDING PERIMETER.
3. VIBRATE, FINISH AND CURE PER SPECS.
4. SEE LANDSCAPE PLANS FOR JOINT LAYOUT AND ADDITIONAL JOINT DETAILS.



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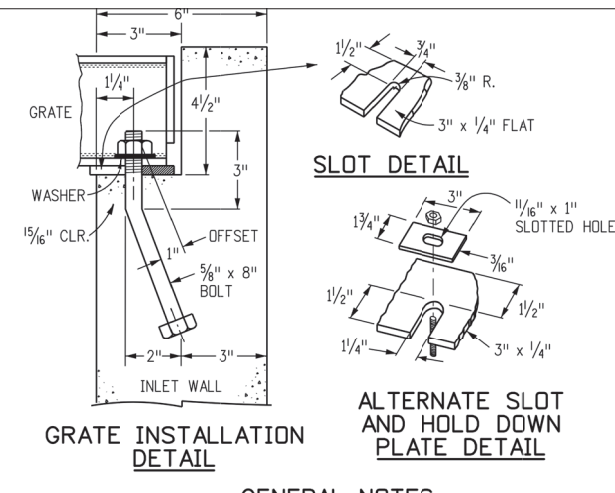
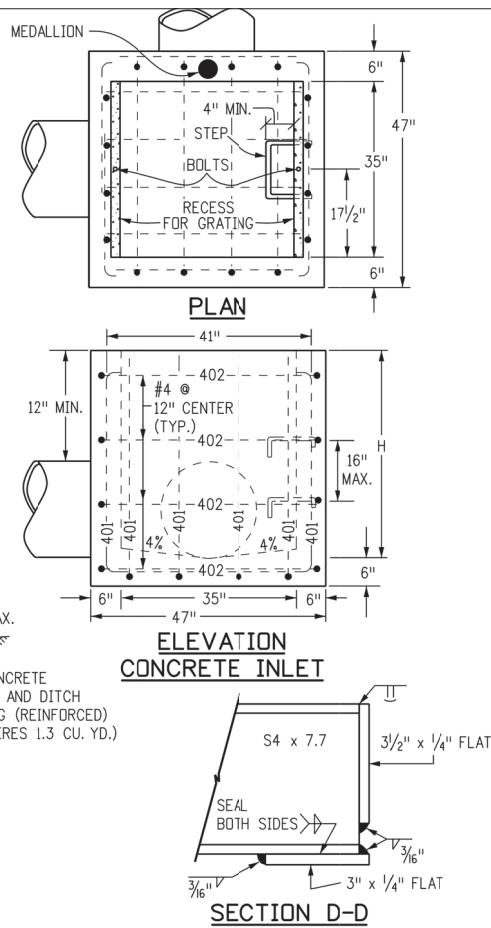
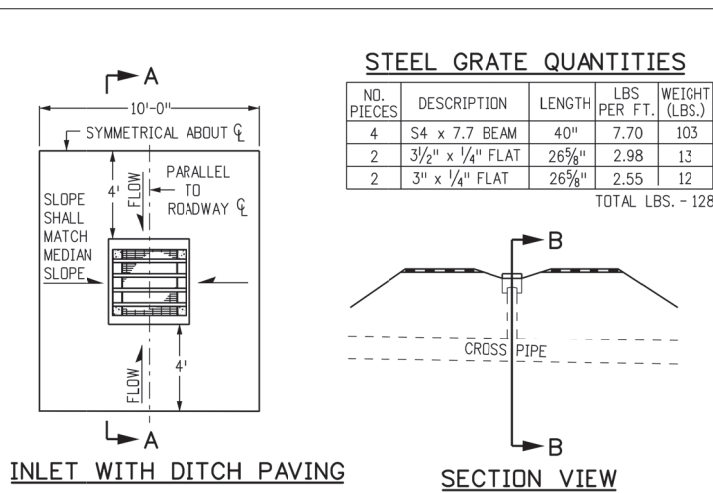
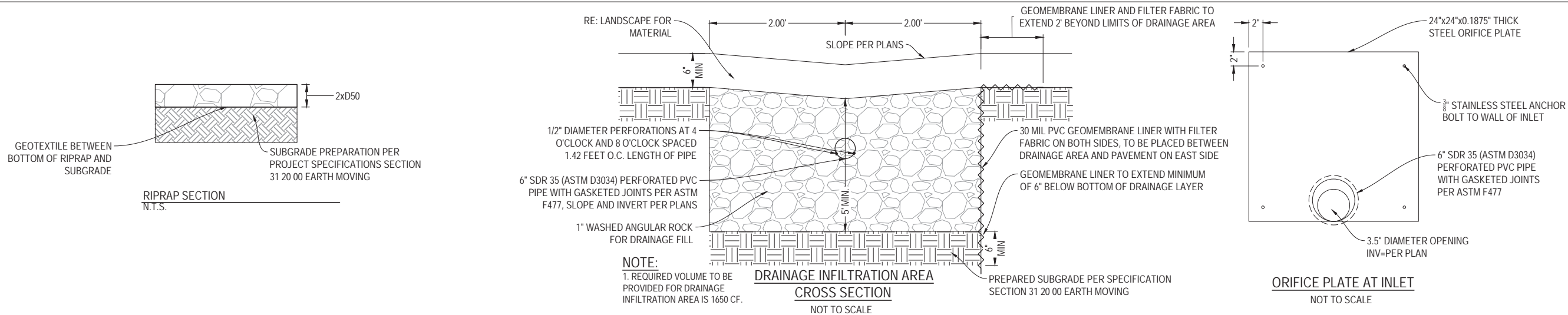
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QUANTITIES FOR ONE INLET			
H	CONCRETE (CU. YDS.)	STEEL (LBS.)	NO. STEPS REQ'D.
2'-6"	0.9	75	0
3'-0"	1.0	80	0
3'-6"	1.2	96	0
4'-0"	1.3	101	1
4'-6"	1.4	116	2
5'-0"	1.5	122	2
5'-6"	1.7	137	2
6'-0"	1.8	142	3
6'-6"	1.9	158	3
7'-0"	2.0	163	3
7'-6"	2.2	179	4
8'-0"	2.3	184	4
8'-6"	2.4	199	4
9'-0"	2.5	205	5
9'-6"	2.7	220	5
10'-0"	3.0	235	6
11'-6"	3.4	251	6

- GENERAL NOTES**
- INLET TYPE C IS NOT HS-20 RATED AND SHALL NOT BE PLACED IN PAVED ROADWAYS. THIS INLET SHALL BE USED ONLY OUTSIDE PAVED ROADWAYS.
 - CONCRETE SHALL BE CLASS B. INLET MAY BE CAST-IN-PLACE OR PRECAST.
 - REINFORCING BARS SHALL BE EPOXY COATED AND DEFORMED #4, AND SHALL HAVE A MINIMUM 2 IN. CLEARANCE. CUT OR BEND AROUND PIPES AS REQUIRED.
 - CONCRETE SLOPE AND DITCH PAVING SHALL BE IN ACCORDANCE WITH SECTION 507. REINFORCEMENT FOR CONCRETE SLOPE PAVING SHALL BE 6 X 6 - W14 X W1.4 OR 5 X 6 - W21 X W2.1.
 - STRUCTURAL STEEL FOR GRATES AND GRATE INSTALLATION HARDWARE SHALL BE GALVANIZED, AND SHALL BE IN ACCORDANCE WITH SUBSECTION 712.06.
 - THE STANDARD INLET GRATES SHALL BE USED ON ALL TYPE C INLETS UNLESS CLOSE MESH GRATES ARE SPECIFIED ON THE PLANS.
 - CLOSE MESH GRATES ARE RECOMMENDED WHERE FOOT TRAFFIC OR BICYCLE ROUTES ARE IN CLOSE PROXIMITY TO GRATE. THIS GRATE IS NOT ADA COMPLIANT OR BICYCLE FRIENDLY AND SHALL NOT BE PLACED DIRECTLY IN SIDEWALKS, CROSSWALKS OR BIKE PATHS.
 - STEPS SHALL BE PROVIDED WHEN INLET DIMENSION "H" IS EQUAL TO OR GREATER THAN 3 FT. - 6 IN., AND SHALL CONFORM TO AASHTO M 199.
 - SEE STANDARD PLAN M-604-11, FOR REINFORCEMENT AROUND THE PIPE OPENING.
 - ALL INLETS SHALL HAVE A 4 IN. DIA. METAL MEDALLION WITH A "NO DUMPING DRAINS TO STREAM" MESSAGE ON IT. THE MEDALLION SHALL HAVE A FISH SYMBOL WITH A BLUE BACKGROUND. IT SHALL BE FIRMLY ATTACHED TO THE TOP OF THE INLET WITH A PERMANENT FASTENER.

BAR LIST FOR H = 2 FT.-6 IN. AND BENDING DIAGRAM

MARK	NO. REQ'D.	HEIGHT	LENGTH
401	2	2'-3"	7'-11"
401	6	2'-7"	8'-7"
402	3	11"	15'-0"

NO. 401

NO. 402

TYPE C INLET NOTES

- THE TYPE C INLET DETAIL SHOWN HEREON WAS ADAPTED FROM CDOT STANDARD PLAN NO. M-604-10, DATED JULY 4, 2012. THIS DETAIL IS PROVIDED FOR THE CONTRACTOR'S CONVENIENCE AND HAS NOT BEEN INDEPENDENTLY VERIFIED OR REVIEWED.
- INLET SHALL HAVE A MINIMUM 1 FOOT SUMP BELOW OUTLET PIPE INVERT.
- INLET SHALL HAVE CLOSE MESH GRATE TOP.



UNITED STATES
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R2
ROCKY MOUNTAIN
REGION

STAMPS, LOGOS, AND SEALS



3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME
**ASPEN-SOPRIS
RANGER DISTRICT
OFFICE**

ASPEN / SOPRIS RANGER DISTRICT

DRAWING TITLE

SITE DETAILS

ARCHIVE NO.

DESIGNER TFS	SUB SHEET NO.
CHECKED DCW	C605
DATE 07/09/20	SHEET 25 OF 119

7/8/20 12:34 CCLEVENSTINE F:\PROJECTS_R-2\5935-USFS SITE DEVELOPMENT\D-CAD\02_SHEETS\DW-5935-LO-SITE REFERENCE PLAN.DWG;

GENERAL NOTES

- CONTRACTOR IS RESPONSIBLE FOR DETERMINING MEANS AND METHODS FOR CONSTRUCTION. THESE DRAWINGS MAY INDICATE A LIMIT OF PROPOSED IMPROVEMENTS, LIMITS OF SITE DEMOLITION, ETC. FOR DELINEATION OF EXPECTED EXTENTS OF DISTURBANCE, HOWEVER, FINAL IMPACT SHALL BE DETERMINED IN THE FIELD. SHOULD LIMITS OF DISTURBANCE EXCEED BOUNDARIES DEFINED IN DRAWINGS, CONTRACTOR SHALL CONTACT CONTRACTING OFFICER FOR RESOLUTION.
- CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL WORK DISTURBED BY CONSTRUCTION OUTSIDE OF LIMIT LINES DEFINED ON DRAWINGS OR THROUGH HIS/HER MEANS AND METHODS AND GENERAL CONDITIONS TO A CONDITION ACCEPTABLE TO THE CONTRACTING OFFICER AT NO ADDITIONAL COST.
- CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING CONDITIONS, IMPROVEMENTS, UTILITIES, ETC. TO REMAIN. ANY DAMAGES SHALL BE REPAIRED TO A CONDITION ACCEPTABLE TO THE CONTRACTING OFFICER AT NO ADDITIONAL COST.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A COMPLETE UP-TO-DATE SET OF DRAWINGS AND SPECIFICATIONS AT THE CONSTRUCTION SITE AND ENSURING THE DOCUMENTS ARE READILY AVAILABLE.
- THE DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY TO ONE ANOTHER AND IMPLIED TO CORRESPOND WITH ONE ANOTHER. ANY DISCREPANCIES SHOULD BE BROUGHT TO THE ATTENTION OF THE CONTRACTING OFFICER FOR IMMEDIATE RESOLUTION.
- VERIFY PLANT PROTECTION, EXISTING IMPROVEMENTS TO REMAIN, AND CONTRACTOR SITE CONTROL MEASURES ARE IN PLACE PRIOR TO COMMENCING WITH CONSTRUCTION. DO NOT PROCEED WITH CONSTRUCTION IF NOT IN COMPLIANCE AND MAINTAINED THROUGHOUT. COORDINATE WITH CONTRACTING OFFICER.

PLANT PROTECTION AND REMOVAL NOTES

- PLANTS SHALL REMAIN UNLESS DESIGNATED FOR REMOVAL AND SHALL BE PROTECTED AS INDICATED. NO DISTURBANCE IS ALLOWED WITHIN THE DRIPLINE OF THE PLANTS UNLESS INDICATED OR APPROVED OTHERWISE. PROTECT PLANTS WITHIN THE PLANT PROTECTION ZONE AS INDICATED.
- REMOVE PLANTS AS INDICATED ON THE PLANS TO THEIR FULL DEPTH, INCLUDING STUMPS AND ROOTS, UNLESS NOTED OTHERWISE. FILL DEPRESSIONS TO MEET FINISH GRADE WITH SUITABLE FILL. COMPACT AND PROVIDE POSITIVE DRAINAGE UNLESS INDICATED OTHERWISE.
- PLANTS ENCOUNTERED THAT ARE NOT SHOWN ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTING OFFICER.
- PRUNE ROOTS AND LIMBS BRANCHES ONLY AS DIRECTED BY CONTRACTING OFFICER UNLESS INDICATED OTHERWISE.
- THE LOCATION OF EXISTING UTILITIES AS SHOWN ON THE PLANS MAY VARY IN RELATION TO ACTUAL EXISTING CONDITIONS. ADDITIONAL UTILITIES NOT SHOWN ON THE DRAWINGS MAY EXIST. VERIFY IN THE FIELD THE DATA SHOWN AND BRING ANY DISCREPANCIES TO THE ATTENTION OF THE CONTRACTING OFFICER BEFORE STARTING WORK.

LANDSCAPE PLANTING NOTES

- REFER TO CIVIL UTILITY AND ROADWAY, PARKING LOT, GRADING, AND DRAINAGE PLANS AS REQUIRED. IF ACTUAL SITE CONDITIONS VARY FROM WHAT IS SHOWN ON THE PLANS, CONTACT THE CONTRACTING OFFICER FOR DIRECTION AS TO HOW TO PROCEED.
- VERIFY LOCATIONS OF PERTINENT SITE IMPROVEMENTS INSTALLED UNDER OTHER SECTIONS. IF ANY PART OF THIS PLAN CANNOT BE FOLLOWED DUE TO SITE CONDITIONS, CONTACT CONTRACTING OFFICER FOR INSTRUCTIONS PRIOR TO COMMENCING WORK.
- VERIFY PLANT COUNTS AND SQUARE FOOTAGES. QUANTITIES ARE PROVIDED AS OWNER INFORMATION ONLY. IF QUANTITIES ON PLANT LIST DIFFER FROM GRAPHIC INDICATIONS, THEN GRAPHICS SHALL PREVAIL. IF GRAPHICS ARE INCONCLUSIVE CONTACT CONTRACTING OFFICER FOR CLARIFICATION.
- PERFORM EXCAVATION IN VICINITY OF UNDERGROUND UTILITIES AND EXISTING TREE/PLANT DRIPLINES WITH CARE AND IF NECESSARY, BY HAND. THE CONTRACTOR BEARS FULL RESPONSIBILITY FOR THIS WORK AND DISRUPTION OR DAMAGE TO UTILITIES AND EXISTING TREES/PLANTS SHALL BE REPAIRED OR REPLACED IMMEDIATELY AT NO EXPENSE TO THE GOVERNMENT.
- TREES/PLANTS SHALL BEAR SAME RELATION TO FINISHED GRADE AS IT BORE TO EXISTING IN PLACE OF GROWTH. HOWEVER, AT NO POINT SHALL IT BE LESS THAN 1 INCH ABOVE ADJACENT FINISH GRADE.
- TREES SHALL BE PLANTED A MINIMUM OF 10 FEET FROM FACE OF BUILDING, EXCEPT AS APPROVED BY CONTRACTING OFFICER.
- PROVIDE MATCHING FORMS AND SIZES FOR PLANT MATERIALS WITHIN EACH SPECIES AND SIZE DESIGNATED ON THE DRAWINGS.
- PRUNE NEWLY PLANTED TREES ONLY AS DIRECTED BY CONTRACTING OFFICER.
- FINISH GRADES OF PLANTING AREAS AND LAWNs SHALL BE FLUSH AND MEET SMOOTHLY AND EVENLY WITH ADJACENT PAVING, PROVIDING POSITIVE DRAINAGE.
- CONTRACTOR SHALL COORDINATE WITH CONTRACTING OFFICER FOR LOCATION OF STOCKPILE AREAS FOR STRIPPED TOPSOIL AND PLANTING SOIL PRODUCTS. CONTRACTOR SHALL ENSURE AREA IS PROTECTED AND CONTAMINATION OR DISTURBANCE OF STORED PRODUCTS IS NOT ALLOWED.
- CONTRACTOR SHALL ENSURE SUBGRADE IS SCARIFIED PRIOR TO INSTALLING PLANTING SOIL AND BLEND WITH INITIAL LIFT OR PLACEMENT OF PROPOSED PLANTING SOIL.
- COORDINATE PLACEMENT OF PLANTING SOIL WITH OTHER WORK, ESPECIALLY UTILITIES, PLACEMENT SHOULD OCCUR AFTER INSTALLATION OF ALL HARDSCAPE IMPROVEMENTS, UTILITIES, ETC. AND BEFORE INSTALLATION OF PLANTS.

LINE SYMBOL LEGEND

PROPOSED		EXISTING
	PROPERTY LINE	
	SWALE CENTERLINE	
	FENCE	
	LIMIT OF WORK	
	TREE PROTECTION FENCE	
	CURB AND GUTTER	
	EDGE OF PAVEMENT	
	BUILDING WALL	
	ROOF OVERHANG	
	MAJOR CONTOUR	
	MINOR CONTOUR	
	BURIED ELECTRIC LINE	
	GAS LINE	
	SANITARY SEWER LINE	
	WATER LINE	
	TELEPHONE LINE	
	CABLE TV LINE	
	FIBER OPTIC LINE	
	STORM DRAIN LINE	
	OVERHEAD POWER LINE	

SYMBOL LEGEND

	EXISTING TREE
	EXISTING TREE TO REMOVE

PLANTING LEGEND

	NATIVE GRASS SEEDING
	NO MOW FESCUE
	PERENNIAL GRASS
	DECIDUOUS TREE

MATERIALS LEGEND

	CONCRETE TYPE 1, 2		RIP-RAP TYPE 1
	CONCRETE TYPE 3		RIP-RAP TYPE 2
	GRAVEL		FENCE TYPE 1

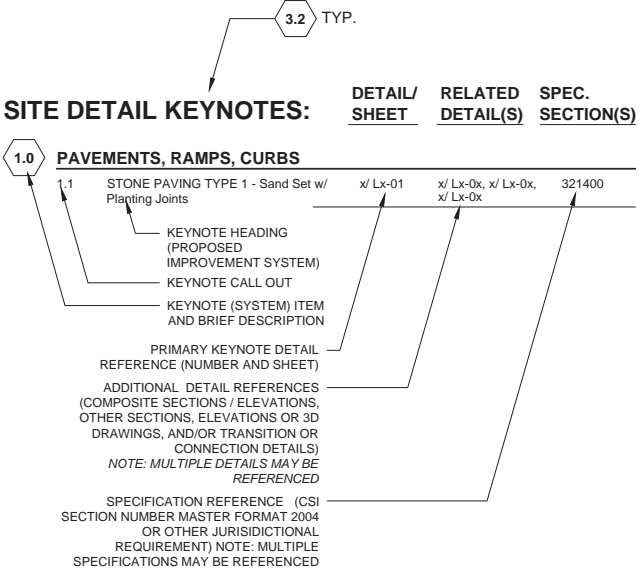
PLANT LIST

ABBR.	QTY.	BOTANICAL NAME	COMMON NAME	TYPE	SIZE	SPACING	NOTES
DECIDUOUS TREES							
GT-3	3	GLEDITSIA TRIACANTHOS 'SKYLINE'	SKYLINE HONEYLOCUST	B&B	3" CAL.	AS SHOWN	
GROUNDCOVERS/ PERENNIALS/ ORNAMENTAL GRASSES							
HS-1	117	HELICTOTRICHON SEMPERVIRENS	BLUE AVENA GRASS	1 GAL.		AS SHOWN	
NR-1	2385 SF	NATIVE GRASS	PITKIN COUNTY NATIVE MIX	SEED		AS SHOWN	
NMF	1743 SF	NO MOW FESCUE	NO MOW FESCUE	SOD		AS SHOWN	

TABLE OF ABBREVIATIONS

APPROX	APPROXIMATE	MH	MANHOLE
ARCH	ARCHITECT	MIN	MINIMUM
AVG	AVERAGE	MISC	MISCELLANEOUS
B&B	BALLED AND BURLAPPED	MTD	MOUNTED
BC	BOTTOM OF CURB	MTL	METAL
BF	BOTTOM OF FOOTING	N	NORTH
BLDG	BUILDING	NIC	NOT IN CONTRACT
BM	BENCHMARK	NO	NUMBER
BOC	BACK OF CURB	NOM	NOMINAL
BR	BOTTOM OF RAMP	NTS	NOT TO SCALE
BRG	BEARING	OC	ON CENTER
BS	BOTTOM OF STEP	OD	OUTSIDE DIAMETER
BW	BOTTOM OF WALL	OPP	OPPOSITE
CAL	CALIPER	PAR	PARALLEL
CAP	CAPACITY	PC	POINT OF CURVATURE
CF	CUBIC FEET	PE	POLYURETHANE
CHAM	CHAMFER	PERF	PERFORATED
CIP	CAST IN PLACE	PED	PEDESTRIAN
CJ	CONTROL JOINT	PI	POINT OF INTERSECTION
CL	CENTER LINE	PL	PROPERTY LINE
CLR	CLEARANCE	PT	POINT, POINT OF TANGENCY
CM	CENTIMETER	PVC	POLYVINYL CHLORIDE
CO	CLEAN OUT	PVMT	PAVEMENT
COMP	COMPACTED	PVR	PAVER
CONC	CONCRETE	QTY	QUANTITY
CONST	CONSTRUCTION	R	RADIUS
CONT	CONTINUOUS	RECEP	RECEPTACLE
CONTR	CONTRACTOR	REF	REFERENCE
CU	CUBIC	REINF	REINFORCE(D)
CY	CUBIC YARD	REM	REMOVE
DBL	DOUBLE	REQ'D	REQUIRED
DF	DIRECTION OF FLOW	REV	REVISION, REVISED
DEG	DEGREE	ROW	RIGHT OF WAY
DEMO	DEMOLISH, DEMOLITION	RT	RIGHT
DIA	DIAMETER	S	SOUTH
DIM	DIMENSION	SAN	SANITARY
DTL	DETAIL	SCH	SCHEDULE
DWG	DRAWING	SD	STORM DRAIN
E	EAST	SEC	SECTION
EA	EACH	SF	SQUARE FOOT (FEET)
EJ	EXPANSION JOINT	SHT	SHEET
EL	ELEVATION	SI	STORM INLET
ELEC	ELECTRICAL	SIM	SIMILAR
ENG	ENGINEER	SNT	SEALANT
EQ	EQUAL	SPECS	SPECIFICATIONS
EQUIP	EQUIPMENT	SQ	SQUARE
EST	ESTIMATE	ST	STORM SEWER
E.W.	EACH WAY	SY	SQUARE YARD
EXIST	EXISTING	STA	STATION
EXP	EXPANSION, EXPOSED	STD	STANDARD
FFE	FINISHED FLOOR ELEVATION	STL	STEEL
FG	FINISHED GRADE	STRL	STRUCTURAL
FIN	FINISH	SYM	SYMMETRICAL
FL	FLOW LINE	T&B	TOP AND BOTTOM
FOC	FACE OF CURB	TBC	TOP OF BACK CURB
FT	FOOT (FEET)	TC	TOP OF CURB
FTG	FOOTING	TF	TOP OF FOOTING
GA	GAUGE	THK	THICK
GAL	GALVANIZED	TOC	TOP OF CONCRETE
GC	GENERAL CONTRACT(OR)	TOPO	TOPOGRAPHY
GEN	GENERAL	TSL	TOP OF SLAB
HORIZ	HORIZONTAL	TRAS	TRANSFORMER
HP	HIGH POINT	TR	TOP OF RAMP
HT	HEIGHT	TS	TOP OF STEP
ID	INSIDE DIAMETER	TW	TOP OF WALL
INV	INVERT ELEVATION	TYP	TYPICAL
IN	INCH(ES)	VAR	VARIES
INCL	INCLUDE(D)	VERT	VERTICAL
INL	INLET	VEH	VEHICLE
IRR	IRRIGATION	VOL	VOLUME
JT	JOINT	W/	WITH
LIN	LINEAR	W/O	WITHOUT
LF	LINEAR FEET	WT	WEIGHT
LP	LOW POINT	WL	WEIR LEVEL
LT	LIGHT	WWF	WELDED WIRE FABRIC
MATL	MATERIAL	YD	YARD
MAX	MAXIMUM	@	AT
MEMB	MEMBRANE		

KEYNOTE LEGEND

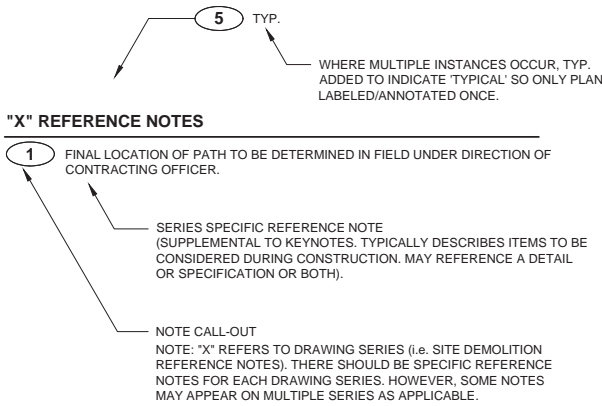


THE FOLLOWING LIST OF KEYNOTE HEADINGS (PROPOSED IMPROVEMENT SYSTEMS) HAVE BEEN INCORPORATED WITHIN THIS DRAWING SET:

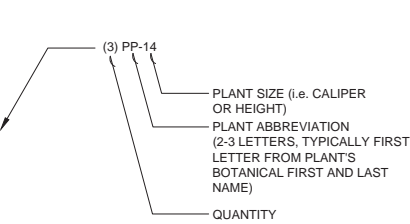
- 1.0 PAVEMENT, RAMPS, AND CURBS
- 2.0 JOINTING
- 3.0 STEPS
- 4.0 SITE WALLS/EMBANKMENTS
- 5.0 SITE FURNITURE
- 6.0 RAILINGS, BARRIERS, AND FENCING
- 7.0 SITE LIGHTING
- 8.0 DRAINAGE
- 9.0 PLANTING AND LANDSCAPE
- 10.0 MISCELLANEOUS ELEMENTS
- 11.0 PLANT PROTECTION

NOTE: IF A KEYNOTE HEADING IS NOT INCORPORATED IN PROJECT, A "NOT USED AT THIS TIME" REFERENCE HAS BEEN PROVIDED.

SAMPLE REFERENCE NOTE DRAWING CALLOUT:



PLANT IDENTIFICATION KEY



NOTE: PLANT ABBREVIATION ON PLANT IDENTIFICATION KEY SHOULD CORRESPOND WITH ABBREVIATION ON PLANT LIST (i.e. PP-14 WOULD REFER TO A PINUS PONDEROSA, 14 FOOT HEIGHT; AR-3 WOULD REFER TO AN ACER RUBRUM 'RED SUNSET', 3 INCH CALIPER)



UNITED STATES
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R2

ROCKY MOUNTAIN
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STAMPS, LOGOS, AND SEALS



NO.	REVISION / ISSUE	DATE

PROJECT NAME

ASPEN-SOPRIS
RANGER DISTRICT
OFFICE

ASPEN / SOPRIS RANGER DISTRICT

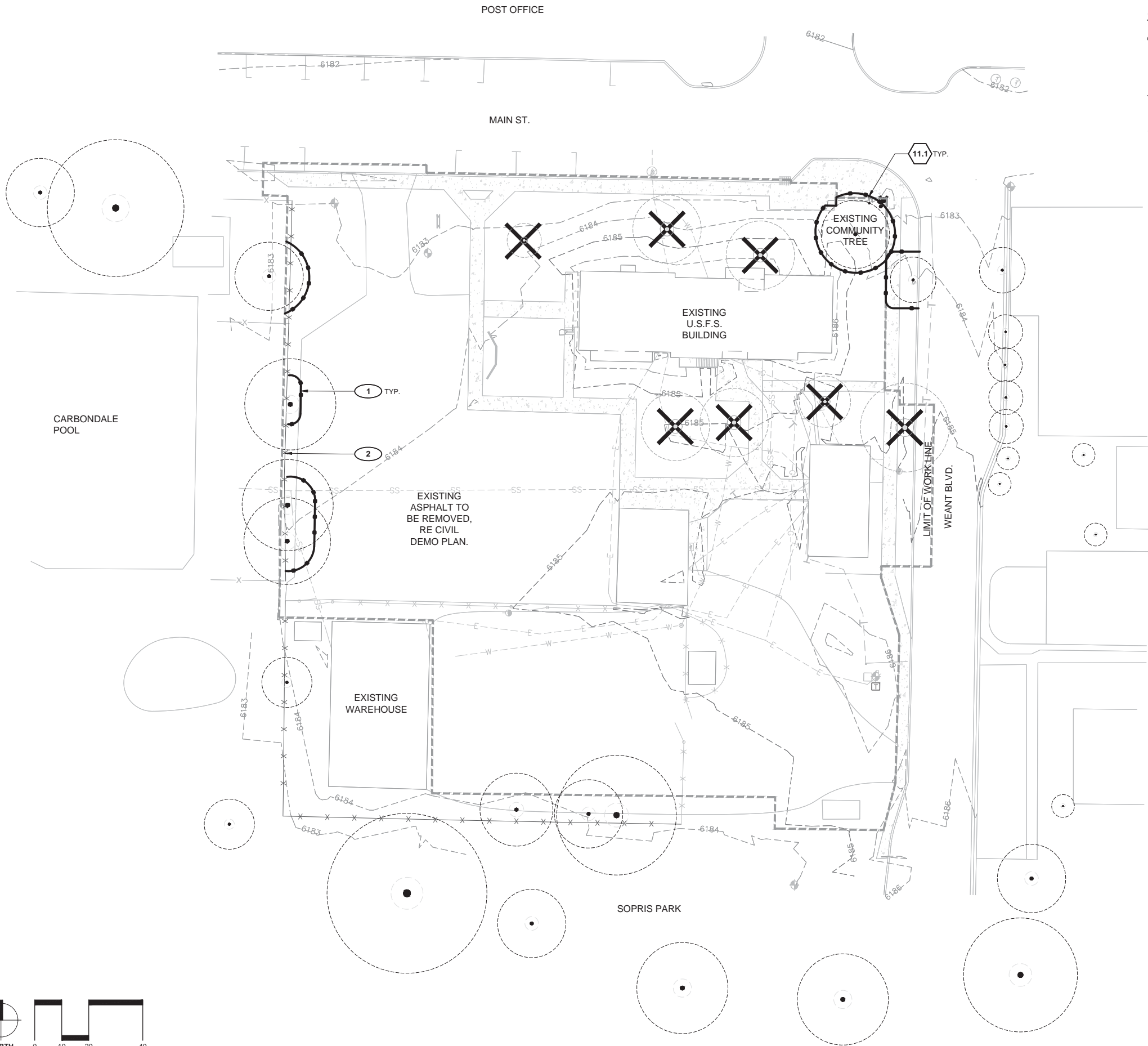
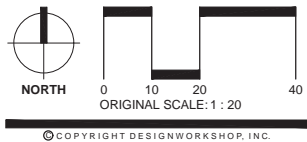
DRAWING TITLE

GENERAL
INFORMATION

ARCHIVE NO.

DESIGNER DC	SUB SHEET NO.
CHECKED CK	L001
DATE 07/09/2020	26 ^{SHEET} OF 119

7/8/20 10:46 CCLEVENSTINE F:\PROJECTS_R-Z\5935-USFS SITE DEVELOPMENT\0-CAD\02. SHEETS\DW-5935-L1-L1-PLANT PROTECTION AND REMOVAL.DWG;



SITE KEYNOTES:			DETAIL / SHEET	RELATED DETAILS	SPEC. SECTION
11.0	PLANT PROTECTION				
11.1	TREE PROTECTION FENCING		4 / L901		015639
PLANT PROTECTION REFNOTES					
1	EXISTING ASPHALT EXTENDS OVER ROOT ZONE. AFTER REMOVAL/DEMOLITION, INSTALL TREE PROTECTION FENCE.				
2	EXISTING FENCE BETWEEN CARBONDALE POOL AND SITE TO REMAIN, EXCEPT AS NOTED ON CIVIL PLANS.				



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STAMPS, LOGOS, AND SEALS



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NO.	REVISION / ISSUE	DATE

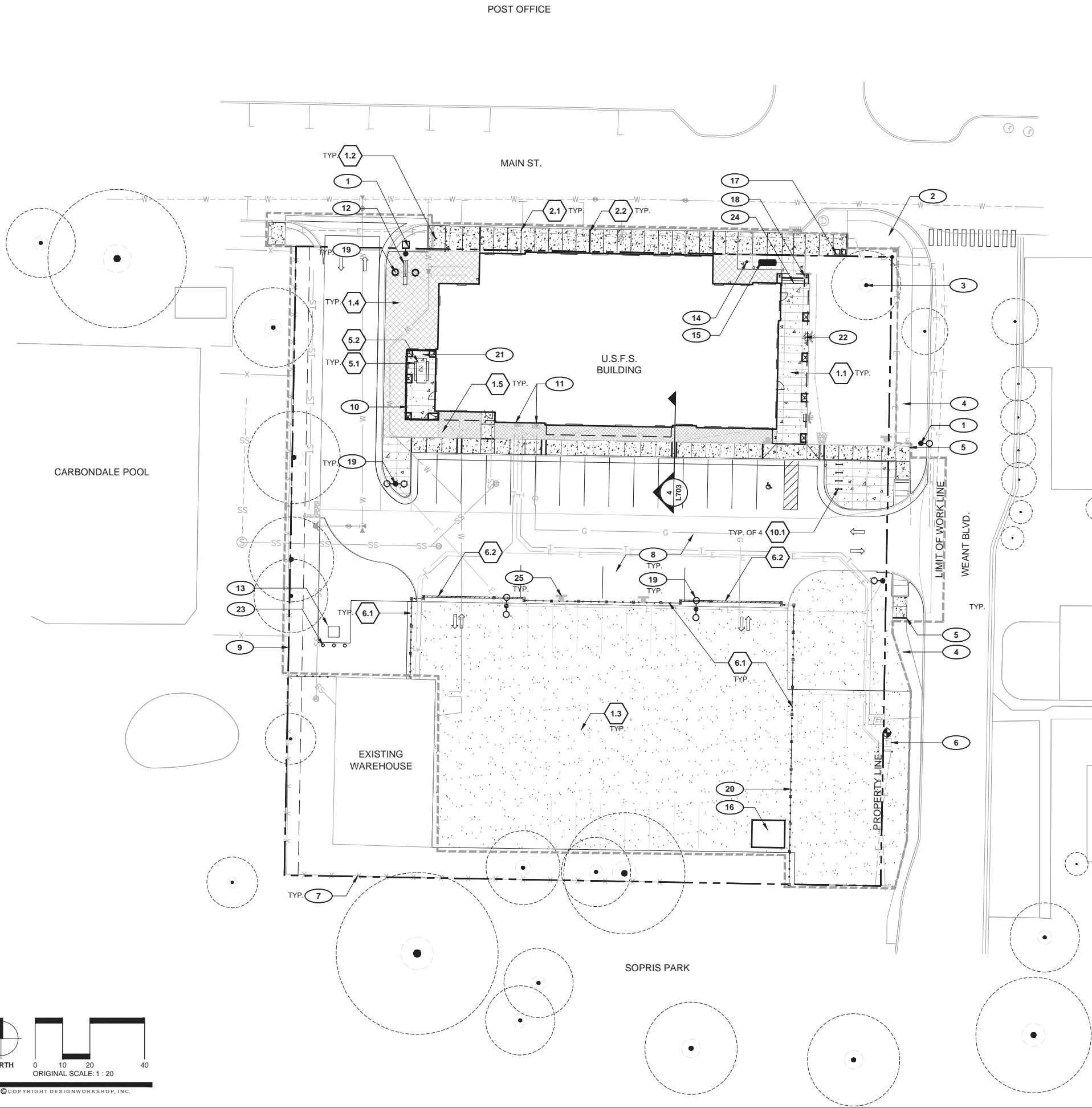
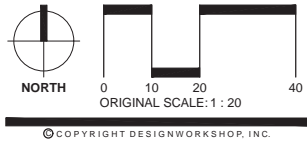
PROJECT NAME
**ASPEN-SOPRIS
RANGER DISTRICT
OFFICE**

ASPEN / SOPRIS RANGER DISTRICT

DRAWING TITLE
**SITE PLANT
PROTECTION AND
REMOVAL PLAN**

ARCHIVE NO.	
DESIGNER DC	SUB SHEET NO. L101
CHECKED CK	
DATE 07/09/20	27 ^{SHEET} OF 119

7/8/20 16:18 CCLEVENSTINE F:\PROJECTS_R-Z\5935-USFS SITE DEVELOPMENT\D-CAD\02. SHEETS\DW-5935-L3-SITE MATERIALS PLAN.DWG;



SITE KEYNOTES:

		DETAIL / SHEET	RELATED DETAILS	SPEC. SECTION
1.0	PAVEMENTS, RAMPS, CURBS			
1.1	CONCRETE PAVING TYPE 1	1 / L701		321316
1.2	CONCRETE PAVING TYPE 2	2 / L701		321316
1.3	GRAVEL PAVING TYPE 1 (VEHICULAR)	3 / L701		321440
1.4	RIP-RAP TYPE 1	4 / L701		321440
1.5	RIP-RAP TYPE 2	5 / L701		321440
2.0	JOINTING			
2.1	CONTROL JOINT	6 / L701		321313
2.2	EXPANSION JOINT	7 / L701		321313
3.0	STEPS			
	SEE ARCHITECTURAL			
4.0	SITE WALLS/ EMBANKMENTS			
	NOT USED AT THIS TIME			
5.0	SITE FURNITURE			
5.1	MOVEABLE BENCH	2 / L703		129300
5.2	PICNIC TABLE	3 / L703		129300
6.0	RAILINGS, BARRIERS, FENCING			
6.1	FENCE TYPE 1 (MAINTENANCE YARD)	1 / L702		323113
6.2	GATE TYPE 1 (SLIDING GATE)	2 / L702		323113
7.0	SITE LIGHTING			
	SEE ELECTRICAL			
8.0	DRAINAGE			
	NOT USED			
9.0	PLANTING AND LANDSCAPE			
	REFER TO L801			
10.0	MISCELLANEOUS ELEMENTS			
10.1	BIKE RACK	1 / L703		129300

SITE REFNOTES

- 1
- RELOCATED STREET LAMP, REFER TO CIVIL AND ELECTRICAL.
- 2
- EXISTING BRICK. PROTECT IN PLACE.
- 3
- CARBONDALE COMMUNITY TREE. PROTECT IN PLACE.
- 4
- EXISTING SIDEWALK TO REMAIN. PROTECT IN PLACE.
- 5
- TIE INTO EXISTING SIDEWALK THROUGH AN EXPANSION JOINT.
- 6
- EXISTING TRANSFORMER. REFER TO CIVIL AND ELECTRICAL.
- 7
- EXISTING FENCE TO REMAIN.
- 8
- ASPHALT DRIVE LANE SURFACE. REFER TO CIVIL.
- 9
- EXISTING GATE PROVIDING ACCESS TO SOPRIS PARK TO REMAIN.
- 10
- EMPLOYEE BREAK AREA SCREEN, REFER TO ARCHITECTURAL DRAWINGS.
- 11
- UTILITY / ELECTRICAL BOXES. REFER TO ARCHITECTURE, CIVIL, ELECTRICAL SHEETS.
- 12
- USFS MONUMENT SIGN. REFER TO ARCHITECTURAL.
- 13
- CONCRETE PAD FOR DUMPSTER. REFER TO CIVIL.
- 14
- FLAGPOLE, REFER TO ARCHITECTURAL.
- 15
- RELOCATE SALVAGED TOWN OF CARBONDALE BENCH TO THIS LOCATION.
- 16
- HAZMAT STORAGE TO BE RELOCATED BY CONTRACTOR, REFER TO CIVIL.
- 17
- RELOCATE SALVAGED TRASH AND RECYCLING, COORDINATE FINAL LOCATION WITH CONTRACTING OFFICER.
- 18
- HANDRAIL. REFER TO ARCHITECTURAL.
- 19
- LIGHTS, REFER TO ELECTRICAL.
- 20
- FENCE POST SHALL BE EQUALLY SPACED BETWEEN CORNER POSTS. MAX 10'
- 21
- CONCRETE PATIO, REFER TO ARCHITECTURAL
- 22
- EXHIBIT PANELS, REFER TO ARCHITECTURAL
- 23
- BOLLARDS, REFER TO CIVIL.
- 24
- REFER TO ARCHITECTURE FOR STAIRS, WALLS AND COLUMN DETAILS.
- 25
- SIGNS, REFER TO CIVIL.



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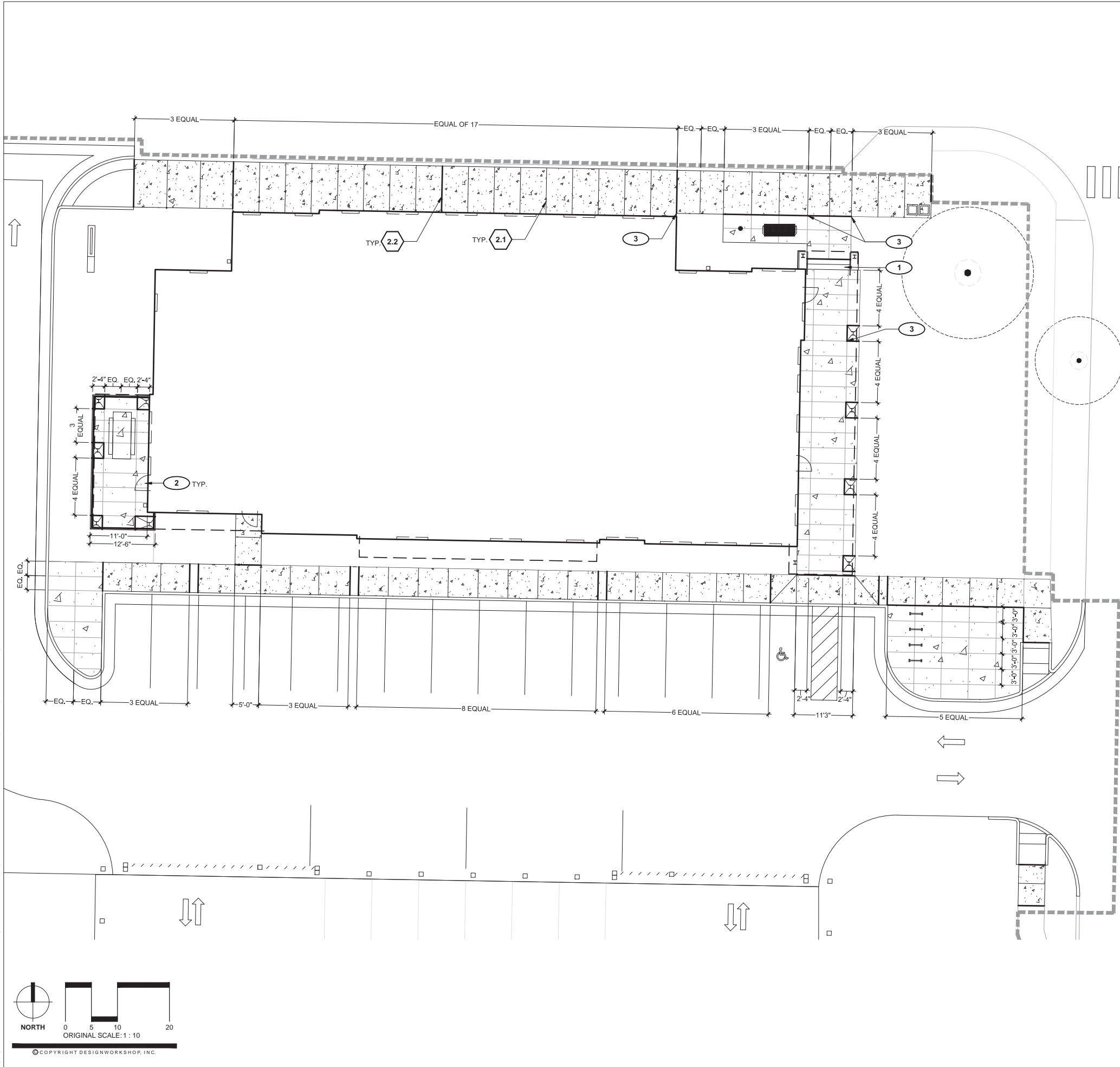
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NO.	REVISION / ISSUE	DATE

PROJECT NAME
ASPEN-SOPRIS
RANGER DISTRICT
OFFICE
ASPEN / SOPRIS RANGER DISTRICT

DRAWING TITLE
SITE MATERIALS
PLAN

ARCHIVE NO.	
DESIGNER DC	SUB SHEET NO. L301
CHECKED CK	
DATE 07/09/20	28 SHEET OF 119

7/8/20 17:06 CCLEVENSTINE F:\PROJECTS_R-Z\5935-USFS SITE DEVELOPMENT\D-CAD\02. SHEETS\DW-5935-L4-JOINTING PLAN.DWG;



SITE KEYNOTES:

		DETAIL / SHEET	RELATED DETAILS	SPEC. SECTION
1.0	PAVEMENTS, RAMPS, CURBS			
1.1	CONCRETE PAVING TYPE 1	1 / L701		321316
1.2	CONCRETE PAVING TYPE 2	2 / L701		321316
1.3	GRAVEL PAVING TYPE 1 (VEHICULAR)	3 / L701		321440
1.4	RIP-RAP TYPE 1	4 / L701		321440
1.5	RIP-RAP TYPE 2	5 / L701		321440
2.0	JOINTING			
2.1	CONTROL JOINT	6 / L701		321313
2.2	EXPANSION JOINT	7 / L701		321313
3.0	STEPS			
	SEE ARCHITECTURAL			
4.0	SITE WALLS/ EMBANKMENTS			
	NOT USED AT THIS TIME			
5.0	SITE FURNITURE			
5.1	MOVEABLE BENCH	2 / L703		129300
5.2	PICNIC TABLE	3 / L703		129300
6.0	RAILINGS, BARRIERS, FENCING			
6.1	FENCE TYPE 1 (MAINTENANCE YARD)	1 / L702		323113
6.2	GATE TYPE 1 (SLIDING GATE)	2 / L702		323113
7.0	SITE LIGHTING			
	SEE ELECTRICAL			
8.0	DRAINAGE			
	NOT USED			
9.0	PLANTING AND LANDSCAPE			
	REFER TO L801			
10.0	MISCELLANEOUS ELEMENTS			
10.1	BIKE RACK	1 / L703		129300

SITE JOINTING PLAN REFNOTES

- 1 STAIRS, REFER TO STRUCTURAL, REFER TO ARCHITECTURE FOR DIMENSIONS
- 2 FOR ALL THRESHOLD DETAILS, REFER TO STRUCTURAL
- 3 ALIGN



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NO.	REVISION / ISSUE	DATE

PROJECT NAME

ASPEN-SOPRIS
RANGER DISTRICT
OFFICE

ASPEN / SOPRIS RANGER DISTRICT

DRAWING TITLE

SITE JOINTING
PLAN

ARCHIVE NO.

DESIGNER

DC

CHECKED

CK

DATE

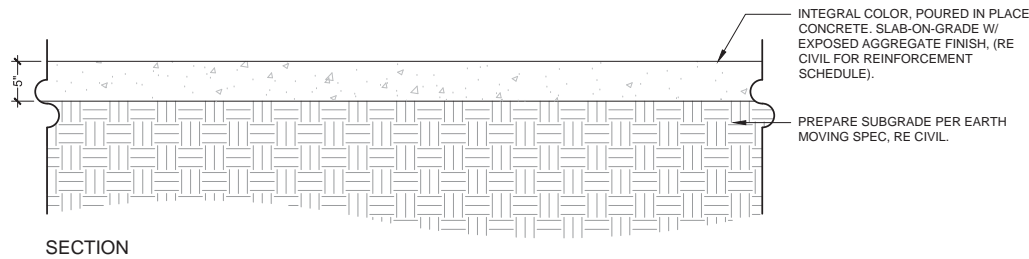
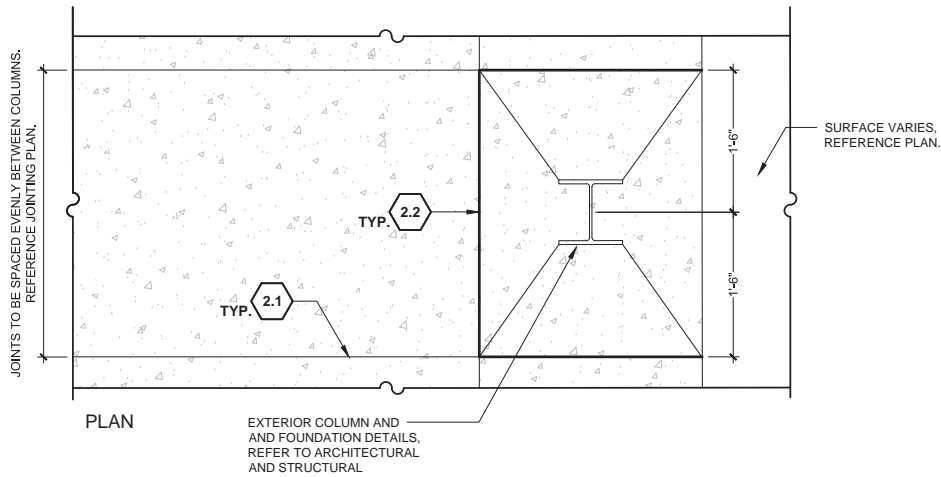
07/09/2020

SUB SHEET NO.

L401

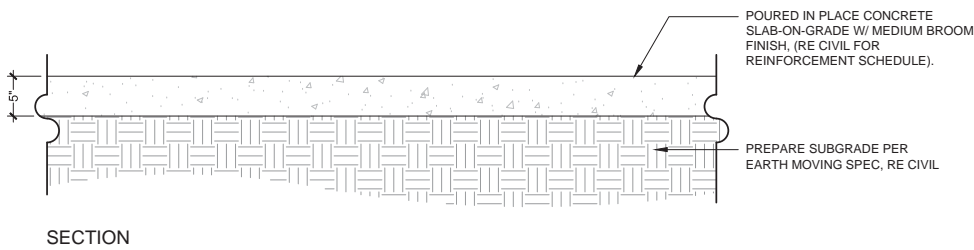
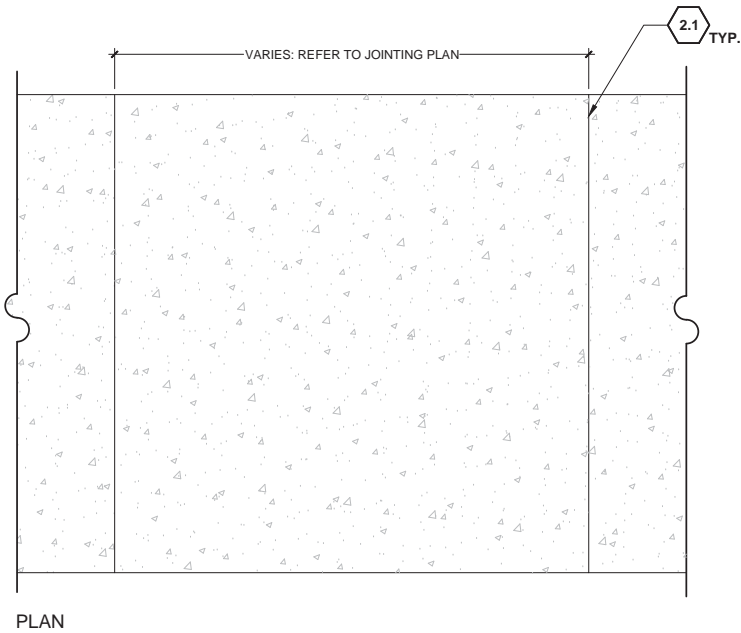
29 SHEET
OF 119

7/8/20 14:08 CCLEVENSTINE F:\PROJECTS_R-Z\59335-USFS SITE DEVELOPMENT\D-CAD\02. SHEETS\DW-5935-L7-SITE DETAILS.DWG;



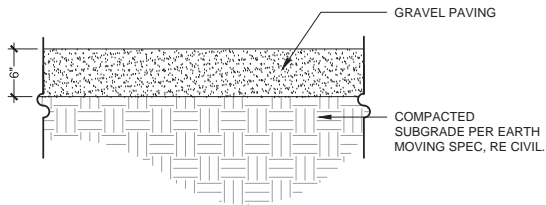
1 CONCRETE PAVING TYPE 1

1" = 1' - 0"



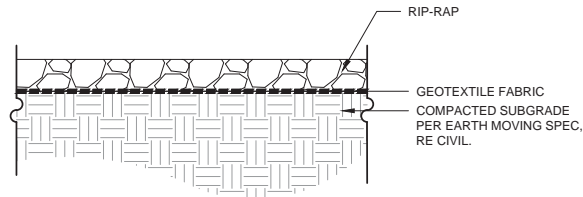
2 CONCRETE PAVING TYPE 2

1" = 1' - 0"



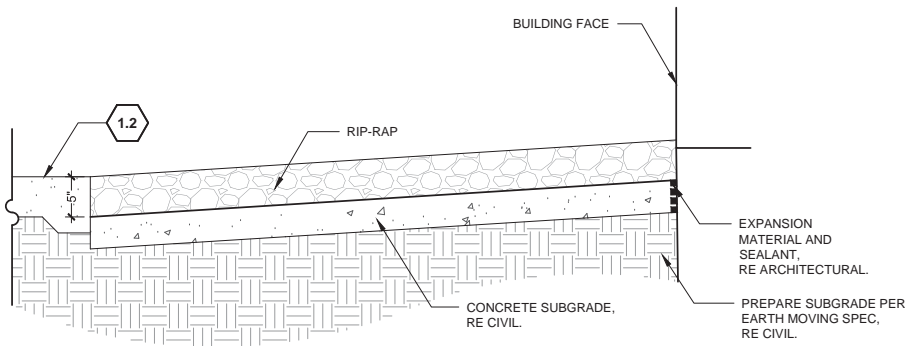
3 GRAVEL PAVING TYPE 1 (VEHICULAR)

1" = 1' - 0"



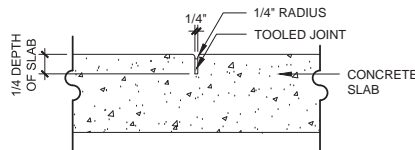
4 RIP-RAP TYPE 1

1" = 1' - 0"



5 RIP-RAP TYPE 2

1" = 1' - 0"

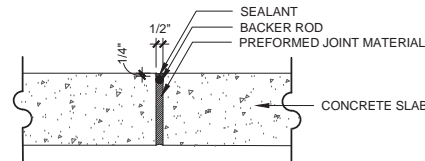


6 CONTROL JOINT

1 1/2" = 1' - 0"

SITE KEYNOTES:

		DETAIL / SHEET	RELATED DETAILS	SPEC. SECTION
1.0	PAVEMENTS, RAMPS, CURBS			
1.1	CONCRETE PAVING TYPE 1	1 / L701		321316
1.2	CONCRETE PAVING TYPE 2	2 / L701		321316
1.3	GRAVEL PAVING TYPE 1 (VEHICULAR)	3 / L701		321440
1.4	RIP-RAP TYPE 1	4 / L701		321440
1.5	RIP-RAP TYPE 2	5 / L701		321400
2.0	JOINTING			
2.1	CONTROL JOINT	6 / L701		321313
2.2	EXPANSION JOINT	7 / L701		321313
3.0	STEPS			
	SEE ARCHITECTURAL			
4.0	SITE WALLS/ EMBANKMENTS			
	NOT USED AT THIS TIME			
5.0	SITE FURNITURE			
5.1	MOVEABLE BENCH	2 / L703		129300
5.2	PICNIC TABLE	3 / L703		129300
6.0	RAILINGS, BARRIERS, FENCING			
6.1	FENCE TYPE 1 (MAINTENANCE YARD)	1 / L702		323113
6.2	GATE TYPE 1 (SLIDING GATE)	2 / L702		323113
7.0	SITE LIGHTING			
	SEE ELECTRICAL			
8.0	DRAINAGE			
	NOT USED			
9.0	PLANTING AND LANDSCAPE			
	REFER TO L801			
10.0	MISCELLANEOUS ELEMENTS			
10.1	BIKE RACK	1 / L703		129300



7 EXPANSION JOINT

1 1/2" = 1' - 0"



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STAMPS, LOGOS, AND SEALS



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PROJECT NAME
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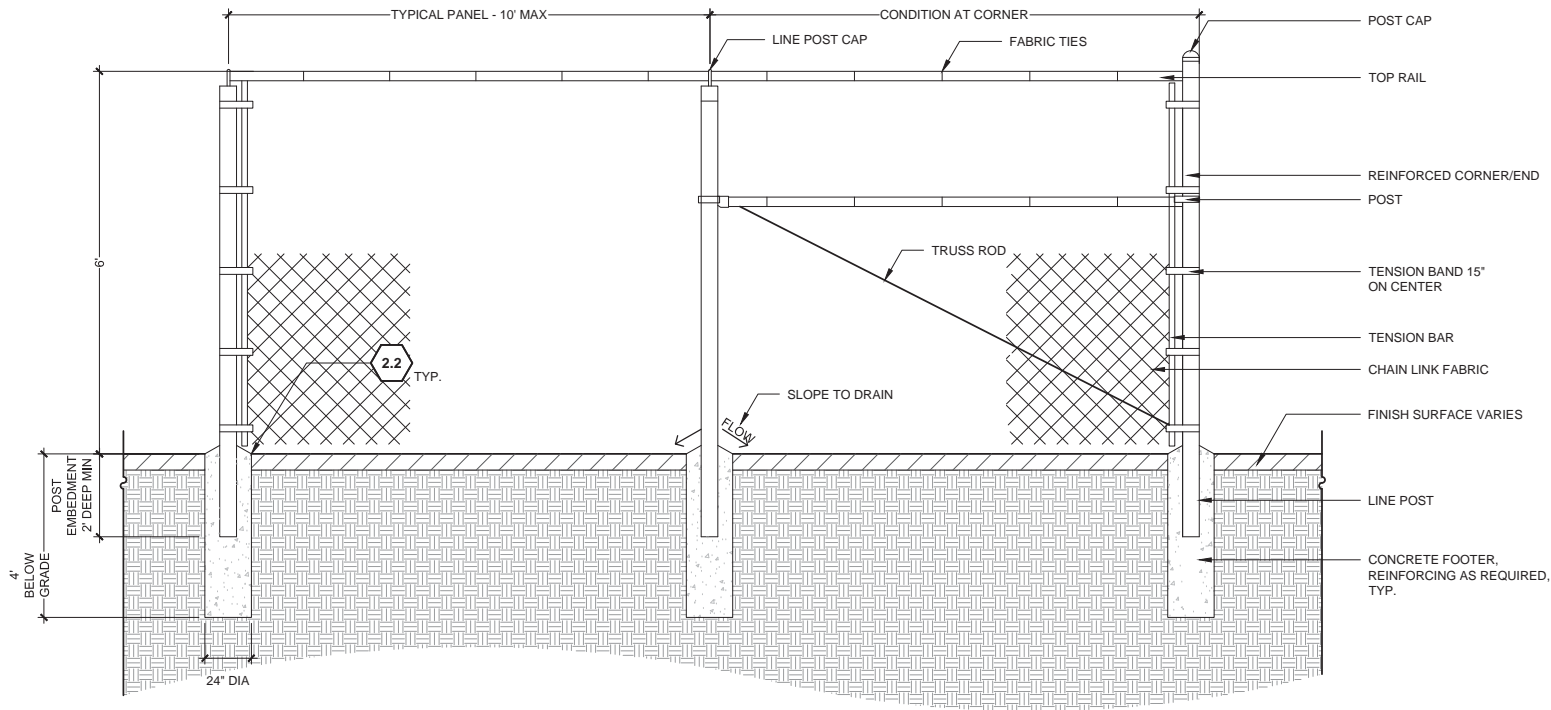
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SITE DETAILS

ARCHIVE NO.

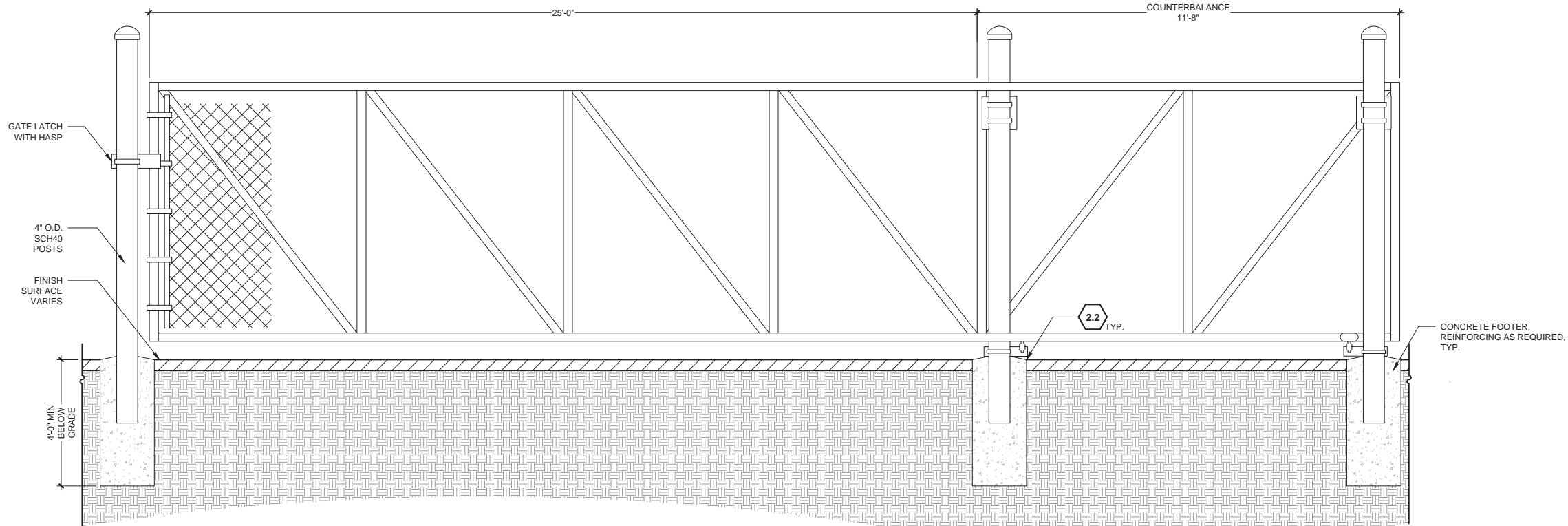
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CHECKED CK	L701
DATE 07/09/20	30 SHEET OF 119

7/8/20 14:08 CCLEVENSTINE F:\PROJECTS_R-Z\5935-USFS SITE DEVELOPMENT\D-CAD\02. SHEETS\DW-5935-L7-SITE DETAILS.DWG;



1 FENCE TYPE 1 (MAINTENANCE YARD)

NOT TO SCALE



2 GATE TYPE 1 (SLIDING GATE)

NOT TO SCALE

SITE KEYNOTES:

	DETAIL / SHEET	RELATED DETAILS	SPEC. SECTION
1.0 PAVEMENTS, RAMPS, CURBS			
1.1 CONCRETE PAVING TYPE 1	1 / L701		321316
1.2 CONCRETE PAVING TYPE 2	2 / L701		321316
1.3 GRAVEL PAVING TYPE 1 (VEHICULAR)	3 / L701		321440
1.4 RIP-RAP TYPE 1	4 / L701		321440
1.5 RIP-RAP TYPE 2	5 / L701		321440
2.0 JOINTING			
2.1 CONTROL JOINT	6 / L701		321313
2.2 EXPANSION JOINT	7 / L701		321313
3.0 STEPS			
SEE ARCHITECTURAL			
4.0 SITE WALLS/ EMBANKMENTS			
NOT USED AT THIS TIME			
5.0 SITE FURNITURE			
5.1 MOVEABLE BENCH	2 / L703		129300
5.2 PICNIC TABLE	3 / L703		129300
6.0 RAILINGS, BARRIERS, FENCING			
6.1 FENCE TYPE 1 (MAINTENANCE YARD)	1 / L702		323113
6.2 GATE TYPE 1 (SLIDING GATE)	2 / L702		323113
7.0 SITE LIGHTING			
SEE ELECTRICAL			
8.0 DRAINAGE			
NOT USED			
9.0 PLANTING AND LANDSCAPE			
REFER TO L801			
10.0 MISCELLANEOUS ELEMENTS			
10.1 BIKE RACK	1 / L703		129300



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DRAWING TITLE

SITE DETAILS

ARCHIVE NO.

DESIGNER

DC

CHECKED

CK

DATE

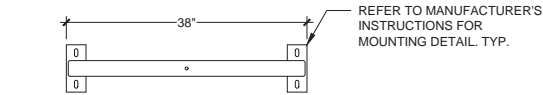
07/09/20

SUB SHEET NO.

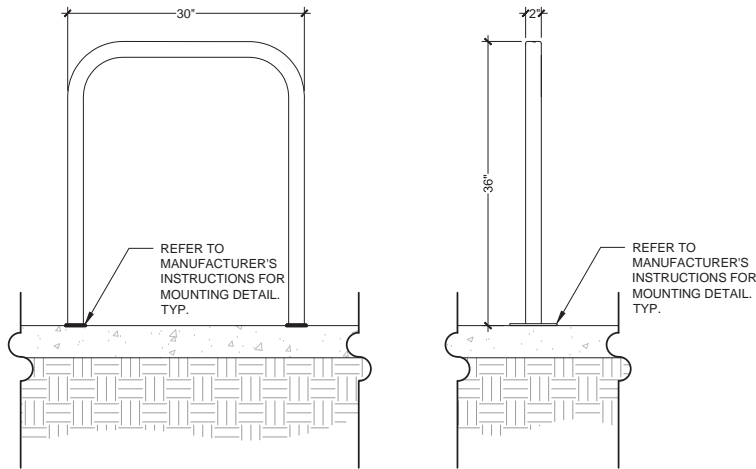
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31 SHEET OF 119

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PLAN



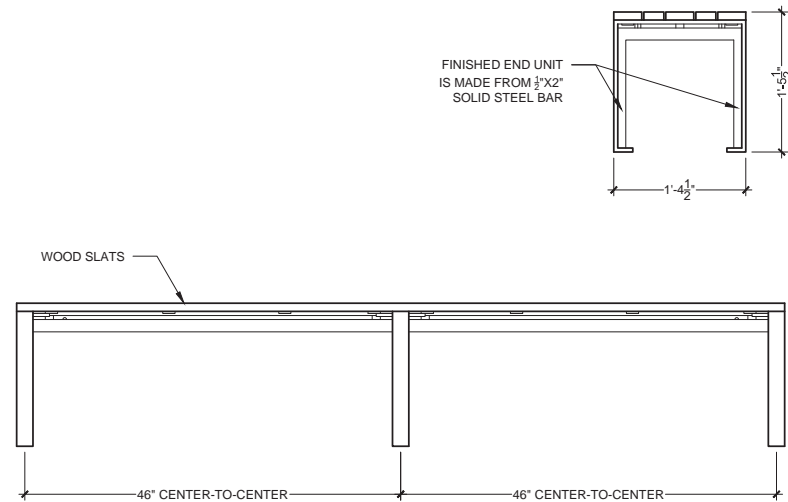
SECTION

1

BIKE RACK

1" = 1'-0"

10.1

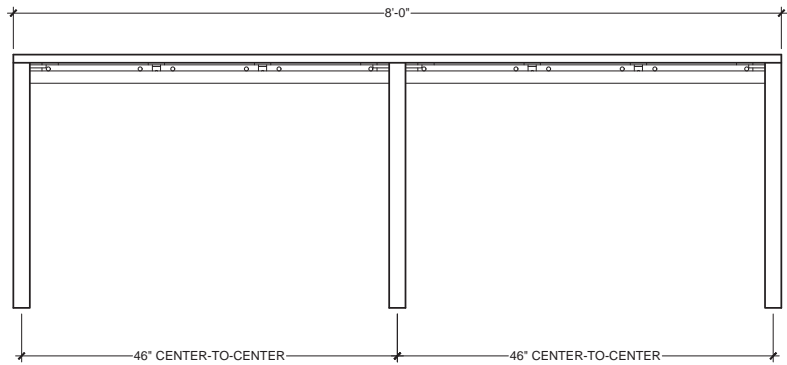
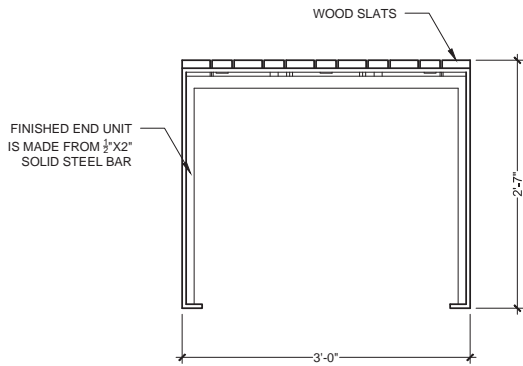


2

MOVEABLE BENCH

1" = 1' - 0"

5.1

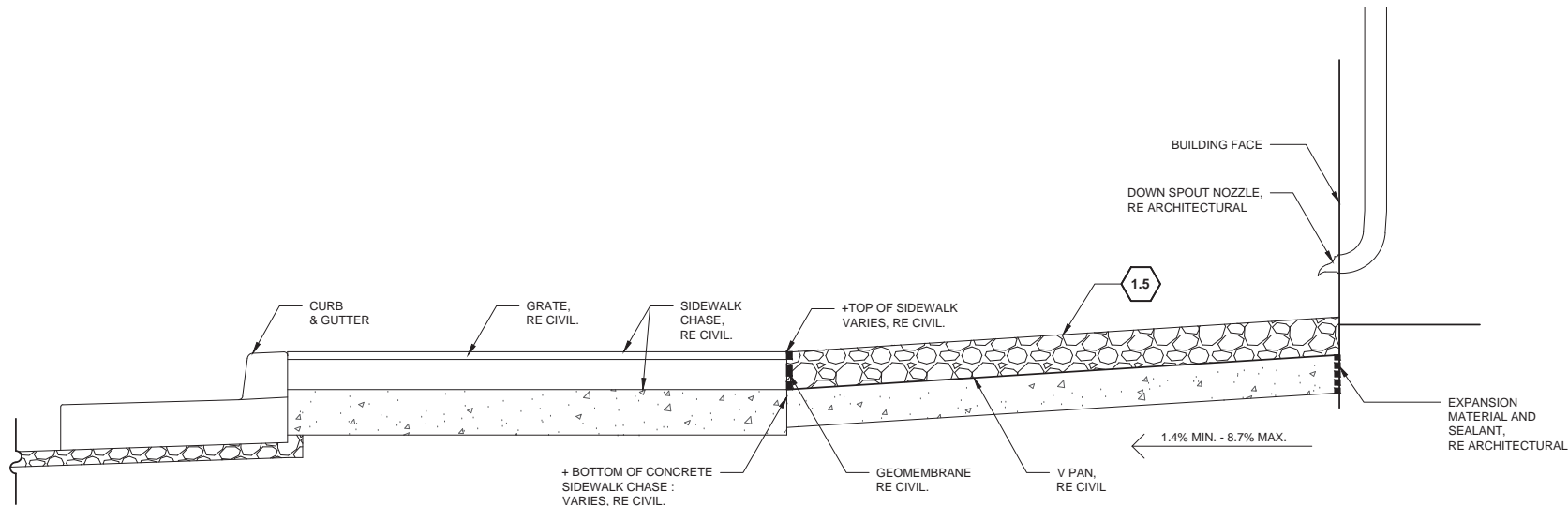


3

PICNIC TABLE

1" = 1' - 0"

5.2



4

SOUTH SIDE OF BUILDING CROSS-SECTION

1" = 1'-0"

SITE KEYNOTES:

		DETAIL / SHEET	RELATED DETAILS	SPEC. SECTION
1.0	PAVEMENTS, RAMPS, CURBS			
1.1	CONCRETE PAVING TYPE 1	1 / L701		321316
1.2	CONCRETE PAVING TYPE 2	2 / L701		321316
1.3	GRAVEL PAVING TYPE 1 (VEHICULAR)	3 / L701		321440
1.4	RIP-RAP TYPE 1	4 / L701		321440
1.5	RIP-RAP TYPE 2	5 / L701		321440
2.0	JOINTING			
2.1	CONTROL JOINT	6 / L701		321313
2.2	EXPANSION JOINT	7 / L701		321313
3.0	STEPS			
	SEE ARCHITECTURAL			
4.0	SITE WALLS/ EMBANKMENTS			
	NOT USED AT THIS TIME			
5.0	SITE FURNITURE			
5.1	MOVEABLE BENCH	2 / L703		129300
5.2	PICNIC TABLE	3 / L703		129300
6.0	RAILINGS, BARRIERS, FENCING			
6.1	FENCE TYPE 1 (MAINTENANCE YARD)	1 / L702		323113
6.2	GATE TYPE 1 (SLIDING GATE)	2 / L702		323113
7.0	SITE LIGHTING			
	SEE ELECTRICAL			
8.0	DRAINAGE			
	NOT USED			
9.0	PLANTING AND LANDSCAPE			
	REFER TO L801			
10.0	MISCELLANEOUS ELEMENTS			
10.1	BIKE RACK	1 / L703		129300



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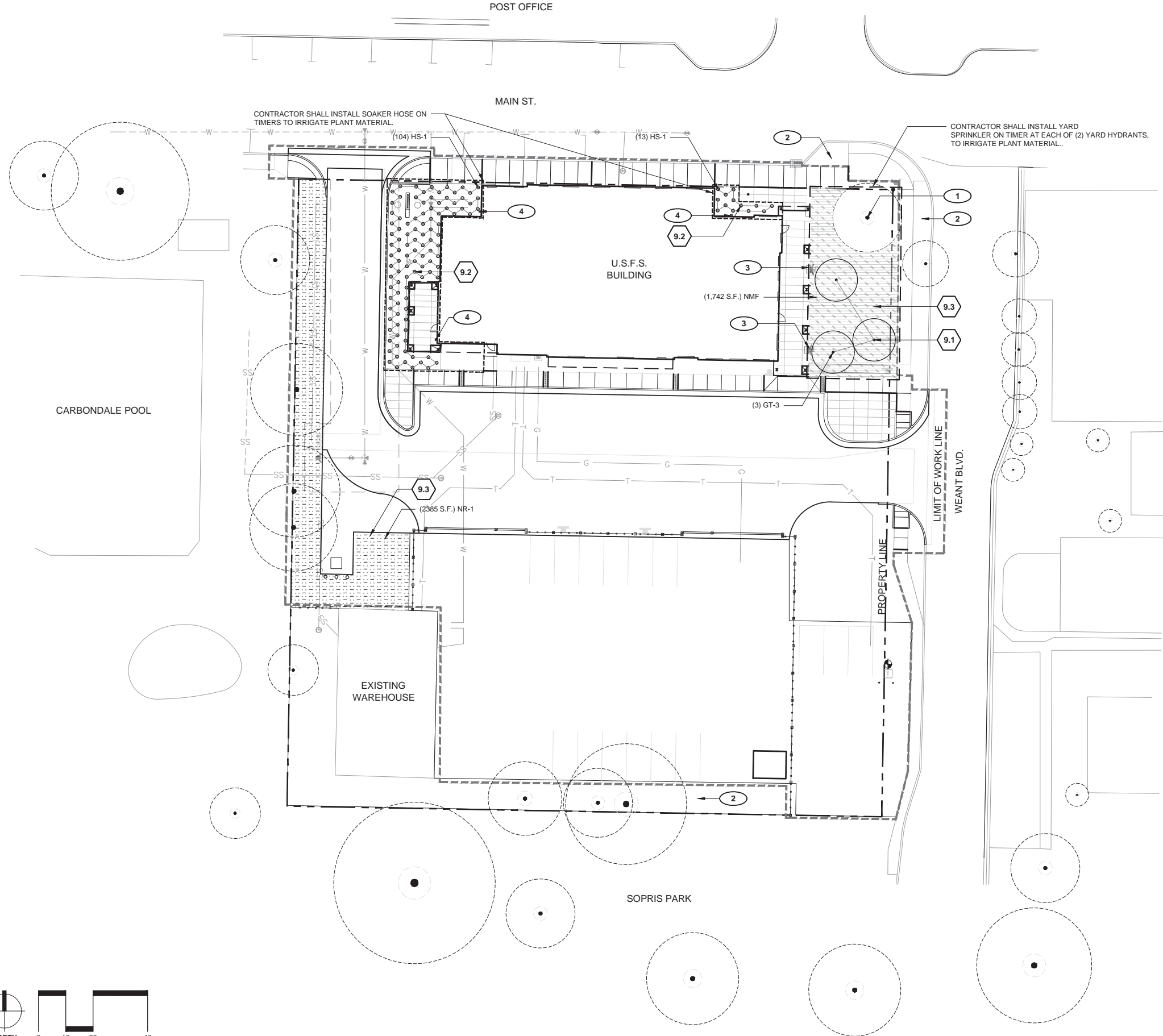
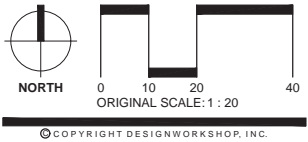
DRAWING TITLE

SITE DETAILS

ARCHIVE NO.

DESIGNER DC	SUB SHEET NO. L703
CHECKED CK	
DATE 07/09/20	SHEET 32 OF 119

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SITE KEYNOTES:			
		DETAIL / SHEET	RELATED DETAILS
9.0	PLANTING AND LANDSCAPE		SPEC. SECTION
9.1	DECIDUOUS TREE PLANTING	1 / L901	329113 329300
9.2	PERENNIAL GRASS PLANTING	2 / L901	329113 329200
9.3	GRASS SEEDING	3 / L901	329113 329200
11.0	PLANT PROTECTION		
11.1	TREE PROTECTION FENCING	4 / L901	015639

SITE REFNOTES	
1	EXISTING TREE TO REMAIN. PROTECT IN PLACE.
2	EXISTING TURF TO REMAIN.
3	YARD HYDRANT, REFER TO MEP.
4	HOSE BIB, REFER TO MEP.

PLANTING KEY LEGEND			
ABBR.	BOTANICAL NAME	COMMON NAME	SPACING
DECIDUOUS TREES			
GT-3	GLEDITSIA TRIACANTHOS 'SKYLINE'	SKYLINE HONEYLOCUST	AS SHOWN
GROUNDCOVERS/ PERENNIALS/ ORNAMENTAL GRASSES			
HS-1	HELICTOTRICHON SEMPERVIRENS	BLUE AVENA GRASS	AS SHOWN
NR-1	NATIVE GRASS	PITKIN COUNTY NATIVE MIX	AS SHOWN
NMF	NO MOW FESCUE	NO MOW FESCUE	AS SHOWN

NOTE:
ALL PLANT MATERIAL REQUIRED TO BE IRRIGATED WITH SOAKER HOSES AND/OR YARD HYDRANTS TO MINIMUM REQUIREMENTS.



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PROJECT NAME
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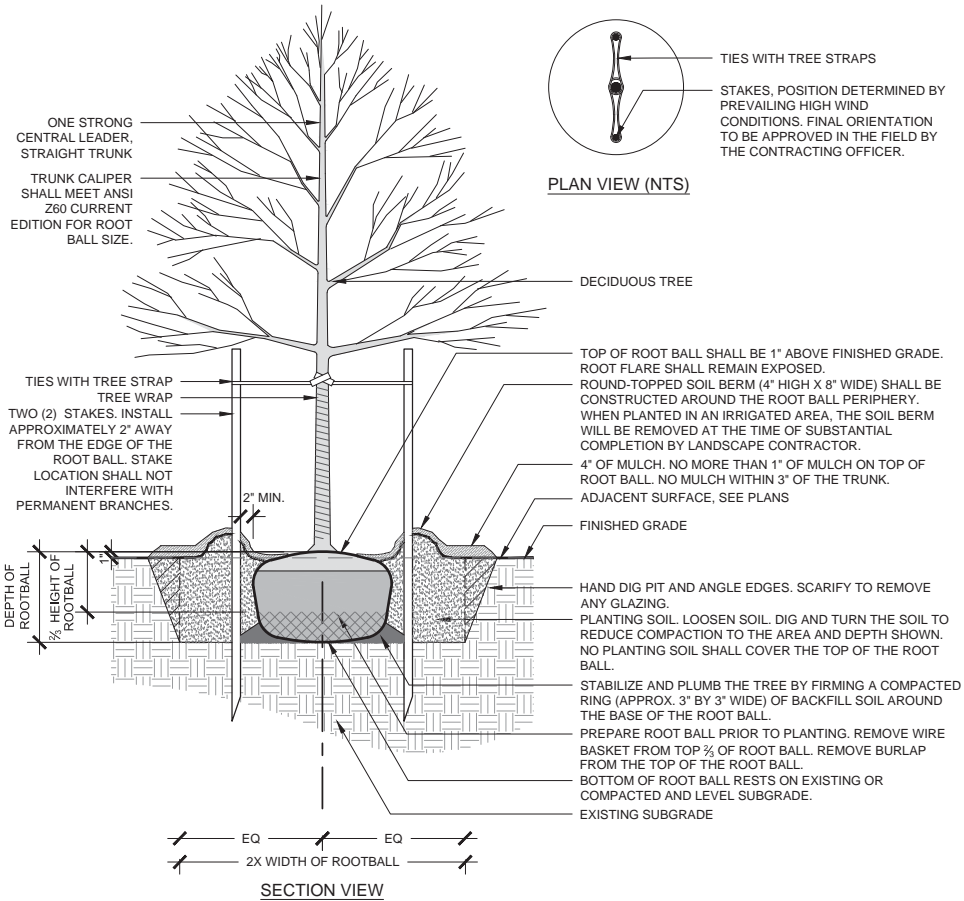
ASPEN / SOPRIS RANGER DISTRICT

DRAWING TITLE

SITE PLANTING PLAN

ARCHIVE NO.	
DESIGNER DC	SUB SHEET NO.
CHECKED CK	L801
DATE 07/09/20	33 SHEET OF 119

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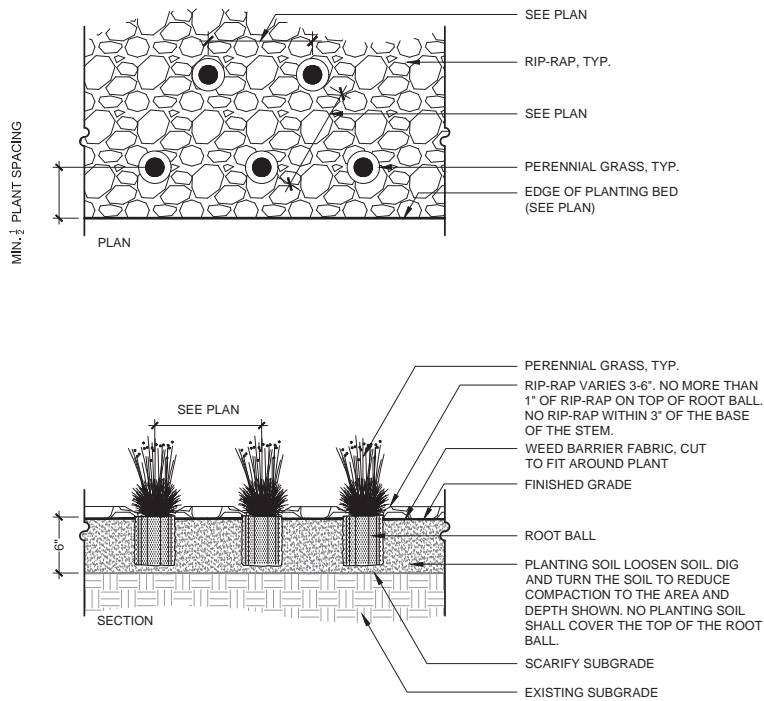


1

DECIDUOUS TREE PLANTING

3/4" = 1' - 0"

9.1

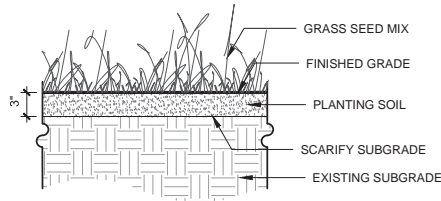


2

PERENNIAL GRASS PLANTING

NOT TO SCALE

9.2

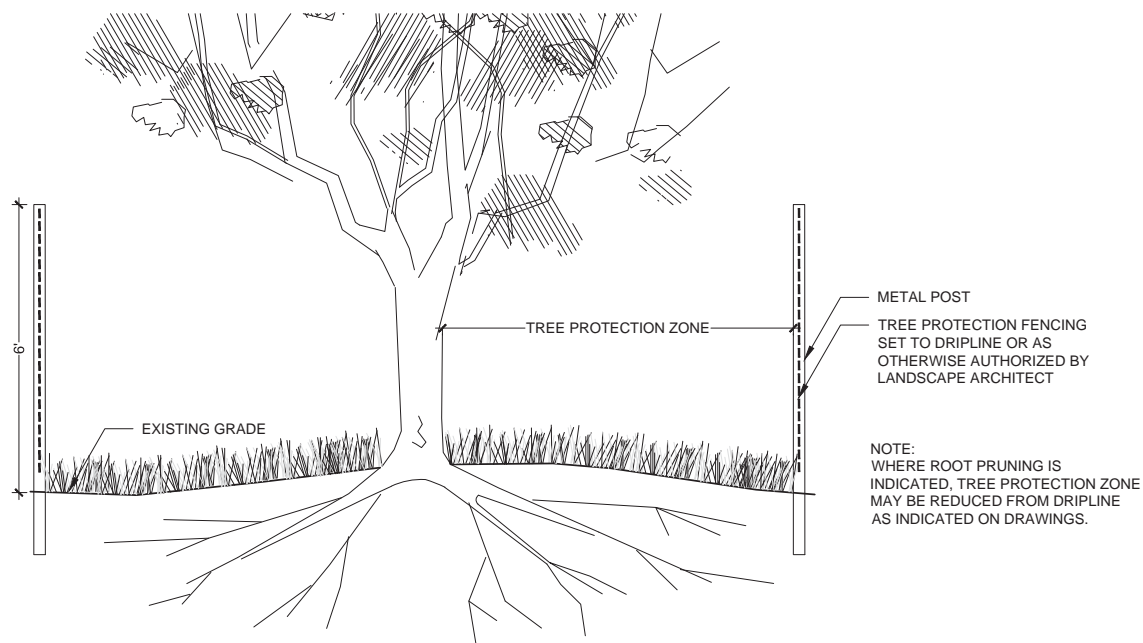


3

GRASS SEEDING

1" = 1' - 0"

9.3



4

TREE PROTECTION FENCING

1/2" = 1' - 0"

11.1

SITE KEYNOTES:			
	DETAIL / SHEET	RELATED DETAILS	SPEC. SECTION
9.0	PLANTING AND LANDSCAPE		
9.1	DECIDUOUS TREE PLANTING	1 / L901	329113 329300
9.2	PERENNIAL GRASS PLANTING	2 / L901	329113 329200
9.3	GRASS SEEDING	3 / L901	329113 329200
11.0	PLANT PROTECTION		
11.1	TREE PROTECTION FENCING	4 / L901	015639



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DRAWING TITLE

SITE PLANTING
DETAILS

ARCHIVE NO.	
DESIGNER DC	SUB SHEET NO. L0901
CHECKED CK	
DATE 07/09/20	
34 SHEET OF 119	

C:\Revit Projects\1402-11_USFS_ASDO_v19_Central_emmendell.rvt

ARCHITECTURAL ABBREVIATIONS

ABV	above
ACC	accessories
AFF	above finished floor
ALT	alternate
AL	aluminum
APC	acoustical panel ceiling
ARCH	architect (ural)
ASPH	asphalt
A/C	air conditioning
BCS	baby changing station
BD	board
BLDG	building
BLKG	blocking
BO	bottom of
BRG	bearing
CBU	cementitious backer unit
CG	corner guard
CJ	control joint
CLG	ceiling
CLR	clear (ance)
CMU	concrete masonry unit
COL	column
CONC	concrete
CONT	continuous or continue
CORR	corridor
CPT	carpet (ed)
CSMT	casement
CT	ceramic tile
CTR	center
CWOG	center wall on grid
DBL	double
DEMO	demolish / demolition
DF	drinking fountain
DIM	dimension (s)
DIR	direction
DISP	dispenser
DN	down
DR	door
DS	downspout
DTL	detail
DWG	drawing
DWR	drawer
E	east
EA	each
EC	evaporative cooler
EG	etched glass/glazing
EIFS	exterior insul finish sys
EJ	expansion joint
EL	elevation

ELEC	electric (al)
EM	emergency
EWC	electric water cooler
EWG	end wall corner guard
EQ	equal
EXG	existing
EXH	exhaust
EXP	exposed
EXT	exterior
FACP	fire alarm control panel
FBO	furnished by owner
FD	floor drain
FDN	foundation
FE	fire extinguisher
FEC	fire extinguisher cabinet
FEP	finished end panel
FFE	finished floor elevation
FIN	finish
FLG	flashing
FLR	floor (ing)
FLUR	fluorescent
FO	face of
FRMG	framing
FRP	fiber reinforced plastic
FRT(W)	fire retardant- treated (wood)
FT	foot (feet)
FTG	footing
GA	gage, gauge
GAL	gallon
GALV	galvanized
GB	grab bar
GC	general contractor
GL	glass, glazing
GWB	gypsum wallboard
GYP	gypsum
HAS	headed anchor stud
HB	hose bibb
HCP	handicap (ed)
HD	warm air hand dryer
HDR	header
HDW	hardware
HM	hollow metal
HOR	horizontal
HSS	hollow structural sections
HT	height
HVAC	heating /ventilation / air conditioning
HWD	hardwood

INCL	include (d) (ing)
INSUL	insulate (d) (ing) (ion)
INT	interior
INV	invert
JST	joist
JT	joint
L	length, angle
LAM	laminated (d)
LAV	lavatory
LB	pound
LF	lineal foot
LG	laminated glass, glazing
LIN	linoleum
LT	light
MA	match
MAS	masonry
MATL	material
MAX	maximum
MB	marker board
MECH	mechanic (al)
MFR	manufacture (r) (d)
MH	manhole
MIN	minimum
MISC	miscellaneous
MLD	molding, moulding
MO	masonry opening
MT	mount (ed) (ing)
MTL	metal
N	north
N/A	not applicable
NIC	not in contract
NOM	nominal
NTS	not to scale
NECY	necessary
OC	on center (s)
OD	outside diameter
OFCl	owner furnished, contractor installed
OFD	overflow drain
OFOI	owner furnished, owner installed
OH	overhead
OL	occupant load
OLF	occupant load factor

OPG	opening
OPH	opposite hand
OPP	opposite
OSB	oriented strand board
OTS	open to structure
PB	particle board
PERF	perforate (d)
PERIM	perimeter
PLAM	plastic laminate
PLT	plate
PNL	panel
PNT	paint (ed)
PR	pair
PROJ	projector, projection
PSF	pounds per square foot
PSI	pounds per square inch
PT	pressure treated
PTD	paper towel dispenser
PTN	partition
PVC	polyvinyl choloride
PVMT	pavement
PWD	plywood
QT	quarry tile
R	riser, radius
RB	rubber base
REC	recycling
RCMD	recommend (ed) (ations)
RE	reference
REF	refrigerator
REIN	reinforce (d) (ing)
REQ	required
REV	revision (s), revised
RD	roof drain
RFG	roofing
RH	robe hook
RM	room
RO	rough opening
ROW	right of way
RR	restroom
RTU	roof top unit
RUB	rubber
S	south
SAG	susp acoustic grid
SC	shower curtain rod & hooks
SCH	schedule
SD	soap dispenser

SHT	sheet
SHTG	sheathing
SIM	similar
SND	sanitary napkin dispenser
SNV	sanitary napkin vendor
SPEC	specification
SPKR	speaker
SQ	square
SS	solid surface
SST	stainless steel
STD	standard
STL	steel
STOR	storage
STR	structural
SUSP	suspended
T	tread
TB	towel bar
TEL	telephone
T.O.	top of
TOC	top of concrete
TOS	top of steel
TOW	top of wall
TPD	toilet paper dispenser
TS	tube steel
TYP	typical
T&G	tongue and groove
UNO	unless noted otherwise
VB	vapor barrier
VCT	vinyl composition tile
VERT	vertical
VIF	verify in field
VM	vending machine
VNL	vinyl sheet
VTR	vent through roof
W	west, wide, width
W/	with
WB	wood base
WC	watercloset
WD	wood
WDW	window
WF	wide flange
WG	wire glass
W/O	without
WP	waterproof (ing)
WR	waste receptacle
WRB	weather resistive barrier
WWM	welded wire mesh
YH	yard hydrant

SYMBOLS

REVISION

ELEVATION

COLUMN GRID LOCATION

DOOR NUMBER

WINDOW TYPE

CENTER LINE OF WALL ABOVE OR HIDDEN LINE

BREAK LINE

MATCH LINE

ROOM NAME
ROOM NUMBER

INTERIOR WALL ELEVATION
REFERENCE DRAWING

REFERENCED SECTION NUMBER
SHEET NUMBER

BASIC WALL TYPE

REFERENCED DETAIL NUMBER
SHEET NUMBER

ANGLE

DIAMETER

PERPENDICULAR

PLATE

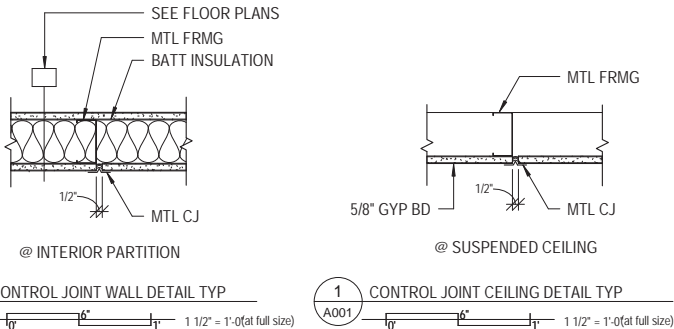
PLUS OR MINUS

FLOOR DRAIN

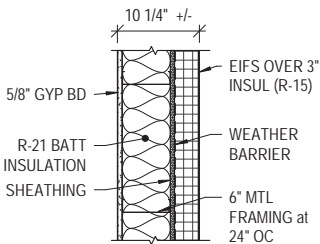
FIRE EXTINGUISHER

GENERAL NOTES

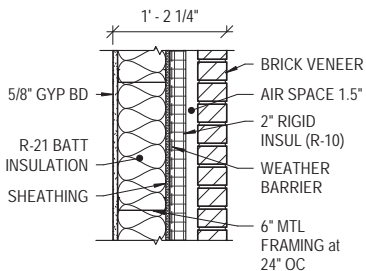
- COMPLY WITH ALL MANUFACTURERS RECOMMENDATIONS AND INDUSTRY STANDARDS RELEVANT TO THE WORK HEREIN.
- ALL DIMENSIONS ARE FROM FACE OF FINISH UNO.
- ALL ALIGNMENTS ARE FACE OF FINISH UNO.
- FIELD VERIFY ALL DIMENSIONS AND ROUGH OPENINGS PRIOR TO FABRICATION AND/OR INSTALLATION.



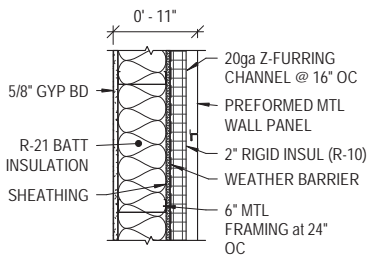
- WALL TYPE NOTES:**
- ALL EXTERIOR WALL TYPES ARE SHOWN WITH THE EXTERIOR WALL FACING RIGHT UNLESS OTHERWISE NOTED.
 - PROVIDE GLASS MAT WATER-RESISTANT BACKER BOARD IN LIEU OF GYPSUM WALL BOARD BEHIND ALL WALL TILE.
 - GYPSUM BOARD SHALL BE MOISTURE-RESISTANT AT THE FOLLOWING LOCATIONS: WALLS AND CEILINGS OF ALL RESTROOMS AND SHOWERS
 - WALL TYPE CHANGES OCCUR AT CORNERS OR INTERSECTIONS OF WALLS UNLESS NOTED OTHERWISE.



1

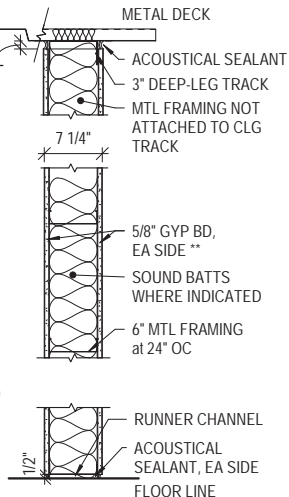


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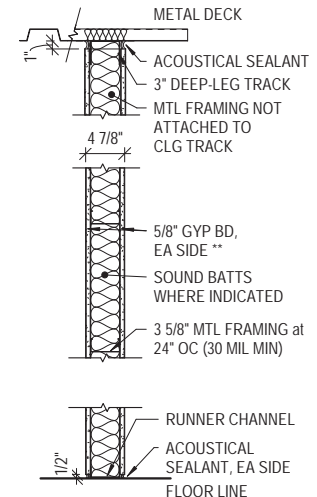
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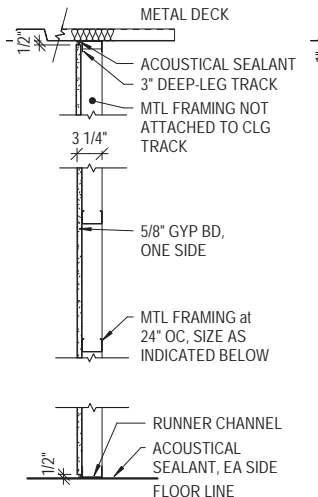
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4S PROVIDE SOUND BATTS
** REPLACE GWB W/ 3/4\"/>



5

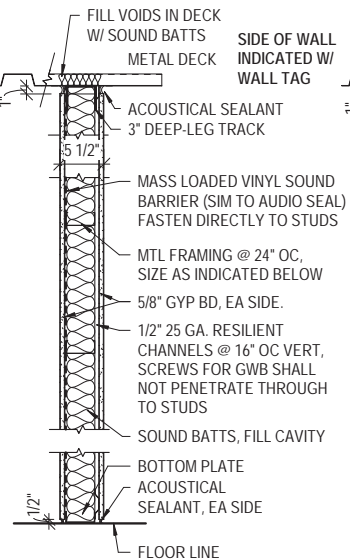
5S PROVIDE SOUND BATTS
** REPLACE GWB W/ 3/4\"/>



6A

6B 3-5/8\"/>

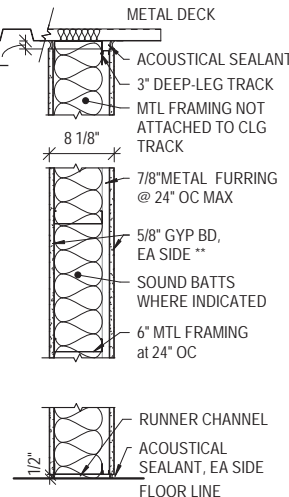
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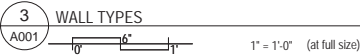
7B 3-5/8\"/>

STC RATING: MIN 52



8

8S PROVIDE SOUND BATTS



3

A001



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RANGER DISTRICT
OFFICE**

ASPEN / SOPRIS RANGER DISTRICT

DRAWING TITLE
**NOTES, SYMBOLS,
ABBREVIATIONS
AND WALL TYPES**

ARCHIVE
NO. 100% CONSTRUCTION DOCUMENTS

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CODE CHECKLIST

OCCUPANCY					
NO.	ROOM NAME	AREA	OCCUPANCY TYPE	OCC LOAD FACTOR	OCC LOAD
ASSEMBLY					
104	LARGE MEETING ROOM	534 SF	ASSEMBLY	15 SF	35.57
		534 SF			35.57
BUSINESS					
106	OFFICE	101 SF	BUSINESS	150 SF	0.68
107	OFFICE	101 SF	BUSINESS	150 SF	0.68
108	OFFICE	101 SF	BUSINESS	150 SF	0.68
110	MAIL / FILES	19 SF	BUSINESS	300 SF	0.06
111	FOCUS	74 SF	BUSINESS	150 SF	0.49
112	WORK STATIONS	2042 SF	BUSINESS	150 SF	13.61
115	SMALL MEETING	189 SF	BUSINESS	150 SF	1.26
118	WELLNESS	96 SF	BUSINESS	150 SF	0.64
124	BIO LAB	138 SF	BUSINESS	150 SF	0.92
127	BREAK ROOM	304 SF	BUSINESS	150 SF	2.03
		3165 SF			21.04
LOCKER ROOM					
128	LOCKERS	306 SF	LOCKER ROOM	50 SF	6.13
		306 SF			6.13
MERCANTILE					
100	VESTIBULE	93 SF	MERCANTILE	60 SF	1.55
101	RECEPTION / VIS	642 SF	MERCANTILE	60 SF	10.71
		736 SF			12.26
STORAGE					
113	FILE STORAGE	179 SF	STORAGE	300 SF	0.60
120	IT	29 SF	STORAGE	300 SF	0.10
123	MECH/ ELEC/JAN	74 SF	STORAGE	300 SF	0.25
126	SECURED STORAGE	183 SF	STORAGE	300 SF	0.61
130	STORAGE	164 SF	STORAGE	300 SF	0.55
		629 SF			2.10
TOTAL BUILDING OCCUPANTS:					80

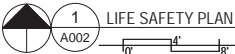
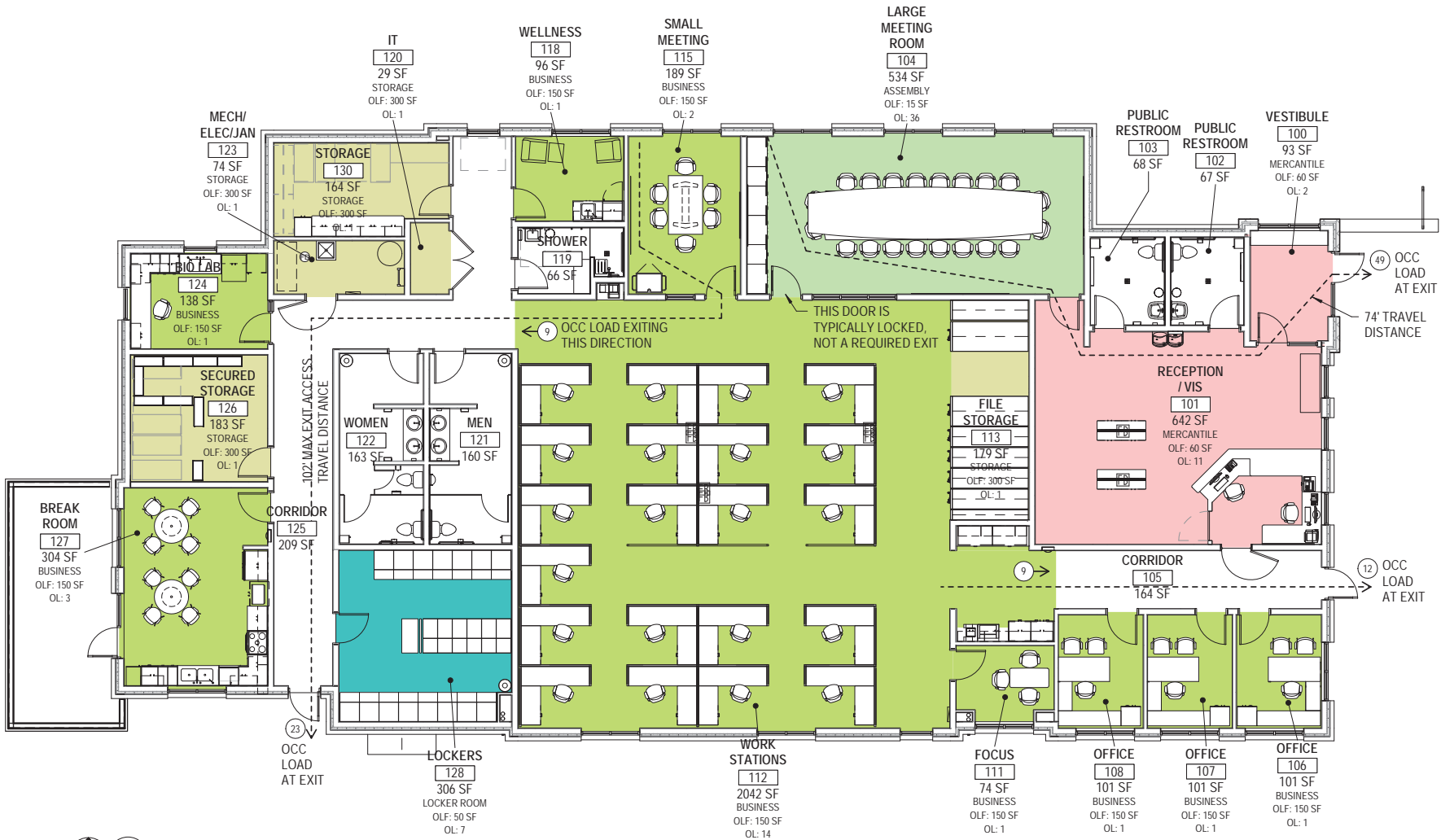
CODES IN USE:		2018 INTERNATIONAL BUILDING CODE (IBC) 2018 INTERNATIONAL PLUMBING CODE (IPC) 2018 INTERNATIONAL MECHANICAL CODE (IMC) 2018 INTERNATIONAL FIRE CODE (IFC) 2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC) 2017 NATIONAL ELECTRIC CODE (NEC) 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN 2009 AMERICAN NATIONAL STANDARD INSTITUTE (ANSI 1117.1) NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
TYPE OF OCCUPANCY:		B
TYPE OF CONSTRUCTION:		TYPE V-B
EXTERIOR FIRE WALL RATING (PER TABLE 602)		0-HOUR
SITE SET BACKS		
FRONT YARD:		>0' TO ASSUMED PROPERTY LINE
SIDE YARD:		>55' TO ASSUMED PROPERTY LINE
REAR YARD:		>127' TO ASSUMED PROPERTY LINE
ALLOWABLE AREA INCREASES		
AUTOMATIC SPRINKLER SYSTEM:		NO
BASIC ALLOWABLE FLOOR AREA (B) (TABLE 506.2)		9,000 SQ FT
ACTUAL BUILDING AREA:		6,836 SQ FT
ALLOWABLE NUMBER OF STORIES (TABLE 504.4):		2
ACTUAL NUMBER OF STORIES:		1
ALLOWABLE BUILDING HEIGHT (TABLE 504.3):		40 FEET
ACTUAL BUILDING HEIGHT:		22 FEET

TOTAL OCCUPANT LOAD:		
NUMBER OF EXITS REQUIRED FOR BUILDING (TABLE 1006.3.2):		2
OCCUPANT LOAD MAIN FLOOR		SEE OCCUPANCY TABLE AT LEFT
TOTAL BUILDING OCCUPANT LOAD		80
COMMON PATH OF TRAVEL B OCCUPANCY		75 FT WHERE OCC LOAD > 30, OTHERWISE 100 FT
EXIT ACCESS TRAVEL DISTANCE (TABLE 1017.2) B OCCUPANCY		200 FT
MINIMUM CORRIDOR WIDTH (TABLE 1020.2) REQUIRED PROVIDED		36 IN WHERE OCC LOAD < 50 60 IN
MAXIMUM DEAD END CORRIDOR DISTANCE ALLOWED		20 FT
NUMBER OF EXITS REQUIRED FOR BUILDING (TABLE 1006.3.2):		2
EXITS PROVIDED		3
CORRIDOR WALL RATING (TABLE 1020.1)		1 HOUR, EXCEPT NO RATING REQUIRED WHERE OCC LOAD < 30

MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES: (TABLE 2902.1)		
WHOLE BUILDING		
DRINKING FOUNTAINS		
BUSINESS	64 OCCUPANTS @ 1 / 100	= 0.640
MERCANTILE	13 OCCUPANTS @ 1 / 1000	= 0.013
STORAGE	3 OCCUPANTS @ 1 / 1000	= 0.003
TOTAL REQUIRED DRINKING FOUNTAINS		0.656 = 1
TOTAL PROVIDED DRINKING FOUNTAINS		2 (1 HIGH / 1 LOW)
SERVICE SINKS		
TOTAL REQUIRED		1
TOTAL PROVIDED		1
AFTER HOURS / PUBLIC AREA: LARGE MEETING ROOM AND RECEPTION / VIS		
WATER CLOSETS - MEN OR WOMEN		
BUSINESS	18 OCCUPANTS @ 1 / 25	= 0.720
MERCANTILE	7 OCCUPANTS @ 1 / 500	= 0.014
TOTAL REQUIRED WATER CLOSETS PER SEX		0.734 = 1
TOTAL PROVIDED WATER CLOSETS PER SEX		1
LAVATORIES - MEN OR WOMEN		
BUSINESS	18 OCCUPANTS @ 1 / 40	= 0.45
MERCANTILE	7 OCCUPANTS @ 1 / 750	= 0.01
TOTAL REQUIRED WATER CLOSETS PER SEX		0.46 = 1
TOTAL PROVIDED WATER CLOSETS PER SEX		1
NON-PUBLIC AREAS		
WATER CLOSETS - MEN OR WOMEN		
BUSINESS	14 OCCUPANTS @ 1 / 25	= 0.56
STORAGE	2 OCCUPANTS @ 1 / 100	= 0.02
TOTAL REQUIRED WATER CLOSETS PER SEX		0.58 = 1
TOTAL PROVIDED WATER CLOSETS PER SEX		2
LAVATORIES - MEN OR WOMEN		
BUSINESS	14 OCCUPANTS @ 1 / 40	= 0.35
STORAGE	2 OCCUPANTS @ 1 / 100	= 0.02
TOTAL REQUIRED LAVATORIES PER SEX		0.37 = 1
TOTAL PROVIDED LAVATORIES PER SEX		2

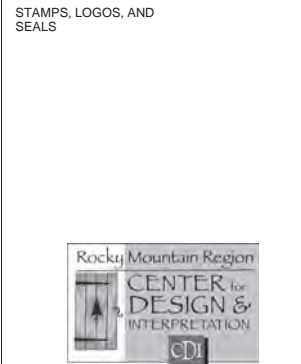
INTERNATIONAL ENERGY CONSERVATION CODE REQUIREMENTS

	REQUIRED	PROVIDED
ROOFS, INSULATION ENTIRELY ABOVE DECK:	R-30ci	R-30 ci MIN
WALLS, ABOVE GRADE, METAL FRAMED:	R-13 + R-7.5ci	R-21 + R-10ci MIN
SLAB-ON-GRADE FLOORS UNHEATED:	R-10 for 24" below	R-10 for 24" BOTH HORZ & VERT
FIXED FENESTRATION:	U-0.38	SEE SPECS
OPERABLE FENESTRATION:	U-.45	SEE SPECS
ENTRANCE DOORS:	U-0.77	SEE SPECS
SOLAR HEAT GAIN COEFFICIENT	S/E/W N	
PROJECTION FACTOR (PF) < 0.2	0.38 0.51	SEE SPECS
0.2 ≤ PF < 0.5	0.46 0.56	SEE SPECS
PF ≥ 0.5	0.61 0.61	SEE SPECS



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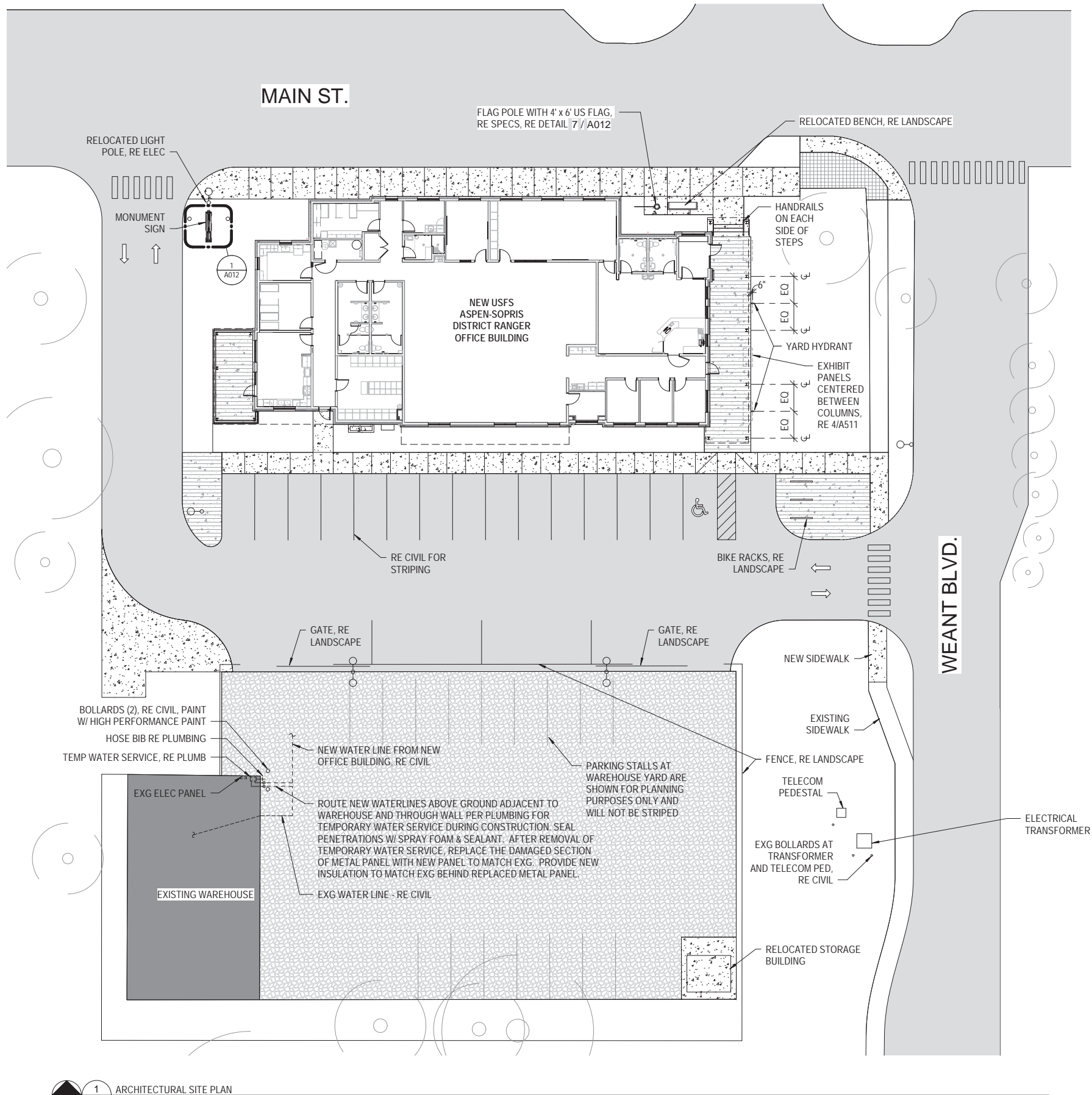
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**CODE CHECKLIST &
LIFE SAFETY PLAN**

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A011
ARCHITECTURAL SITE PLAN
1/16" = 1'-0" (at full size)



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RANGER DISTRICT
OFFICE**

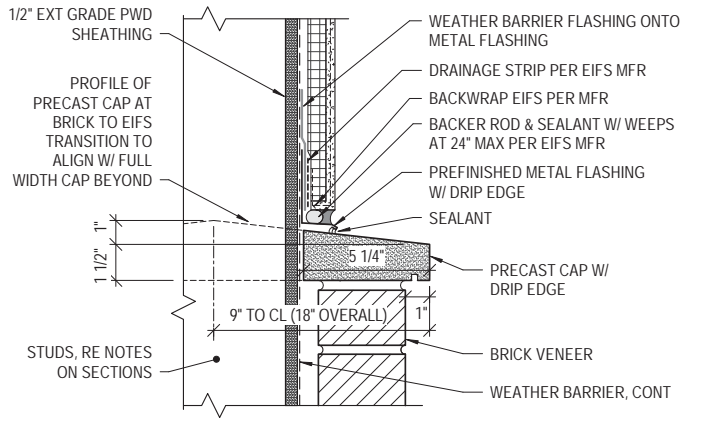
ASPEN / SOPRIS RANGER DISTRICT

DRAWING TITLE
**ARCHITECTURAL
SITE PLAN**

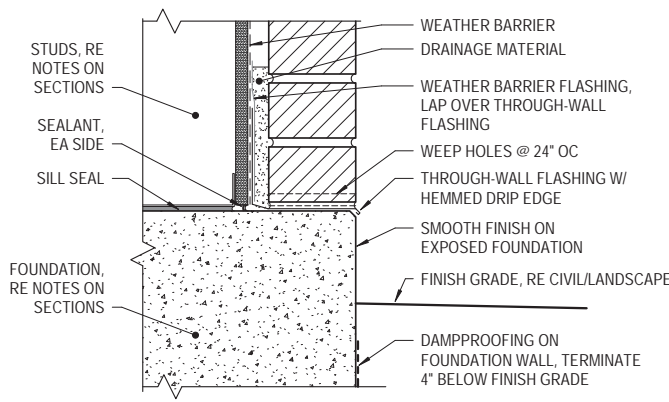
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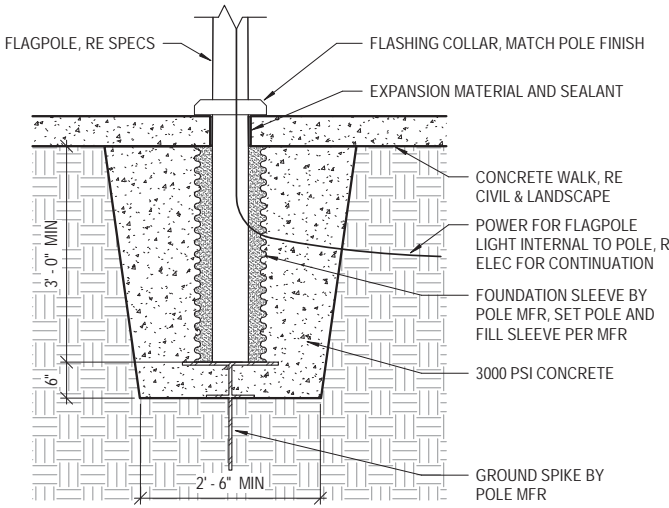
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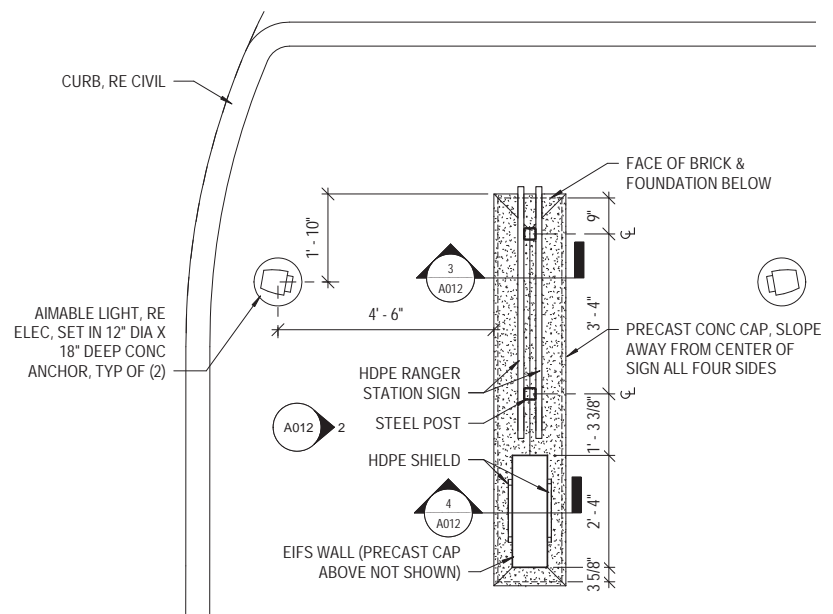
5 MONUMENT SIGN PRECAST CAP AT BRICK & EIFS Copy 1
A012 3" = 1'-0" (at full size)



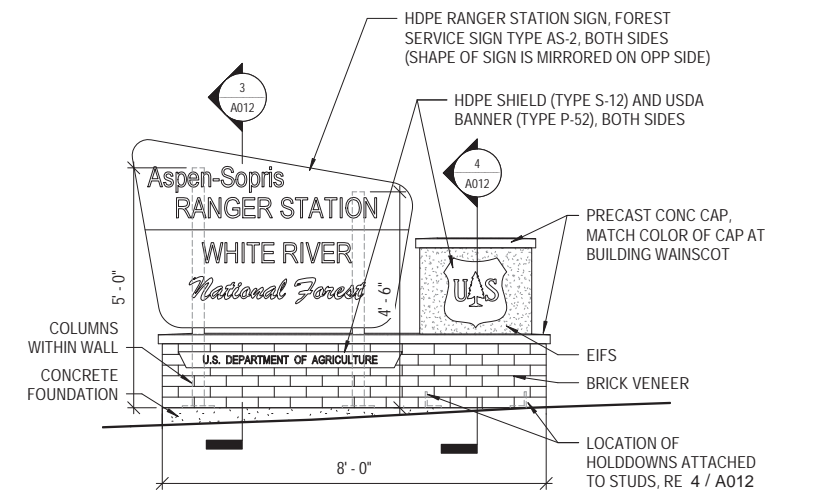
6 BRICK BASE DETAIL AT MONUMENT SIGN
A012 3" = 1'-0" (at full size)



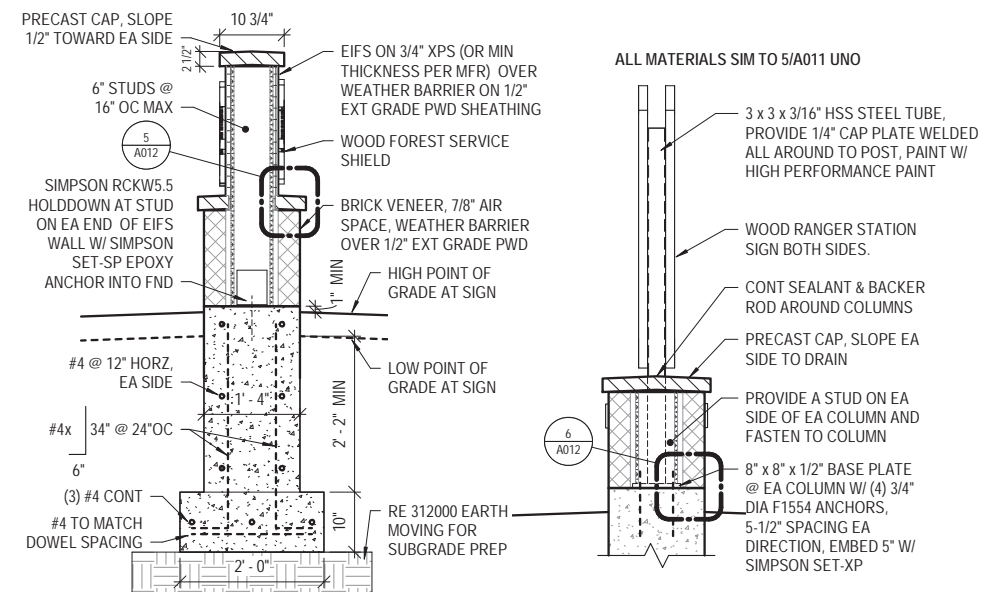
7 FLAGPOLE BASE DETAIL
A012 3/4" = 1'-0" (at full size)



1 ENLARGED MONUMENT SIGN PLAN
A012 1/2" = 1'-0" (at full size)



2 MONUMENT SIGN ELEVATION
A012 1/2" = 1'-0" (at full size)



3 MONUMENT SIGN SECTION-NORTH
A012 3/4" = 1'-0" (at full size)

4 MONUMENT SIGN SECTION-SOUTH
A012 3/4" = 1'-0" (at full size)



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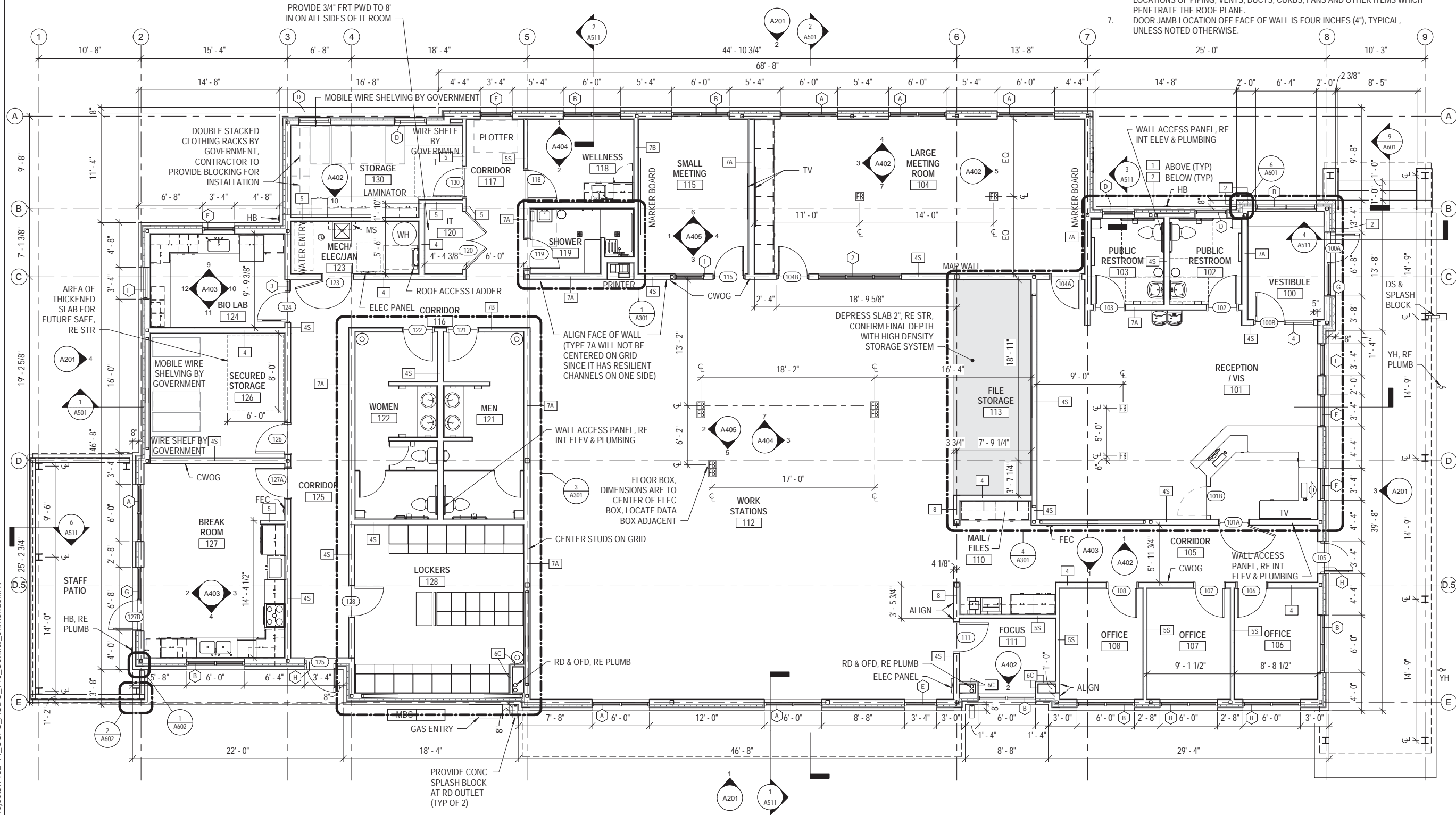
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DRAWING TITLE
SITE DETAILS

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GENERAL NEW CONSTRUCTION NOTES

1. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE CONTRACTING OFFICER PRIOR TO CONTINUING CONSTRUCTION.
2. ITEMS NOT NOTED ON THE DRAWINGS SHALL BE CONSIDERED THE SAME AS NOTED ITEMS WHICH ARE GRAPHICALLY REPRESENTED IN THE SAME MANNER.
3. PROVIDE TREATED SOLID WOOD BLOCKING FOR ALL WALL EQUIPMENT, TOILET ACCESSORIES, MILLWORK AND OTHER WALL MOUNTED ITEMS. SEE ELEVATIONS AND EQUIPMENT SPECIFICATIONS FOR ADDITIONAL INFORMATION. PROVIDE DOUBLE STUDS FOR MOUNTING LOW PROFILE COUNTERTOP BRACKETS. PROVIDE DOUBLE MTL STUDS SANDWICHING BLOCKING AT IN WALL/ CONCEALED COUNTERTOP BRACKET LOCATIONS RE: 2 / A622
4. CONTRACTOR SHALL CAULK AT THE INTERFACE OF INTERIOR FACES OF DOOR FRAMES WITH ADJACENT MATERIALS THOUGH JOINT MAY NOT BE VISIBLE.
5. PROVIDE POSITIVE SLOPE ON ALL FLOOR DRAINS, MINIMUM OF 1/8" PER FOOT. SEE ENLARGED PLANS, DETAILS, AND STRUCTURAL DRAWINGS.
6. REFER TO THE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR THE LOCATIONS OF PIPING, VENTS, DUCTS, CURBS, FANS AND OTHER ITEMS WHICH PENETRATE THE ROOF PLANE.
7. DOOR JAMB LOCATION OFF FACE OF WALL IS FOUR INCHES (4"), TYPICAL, UNLESS NOTED OTHERWISE.



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DRAWING TITLE
FLOOR PLAN

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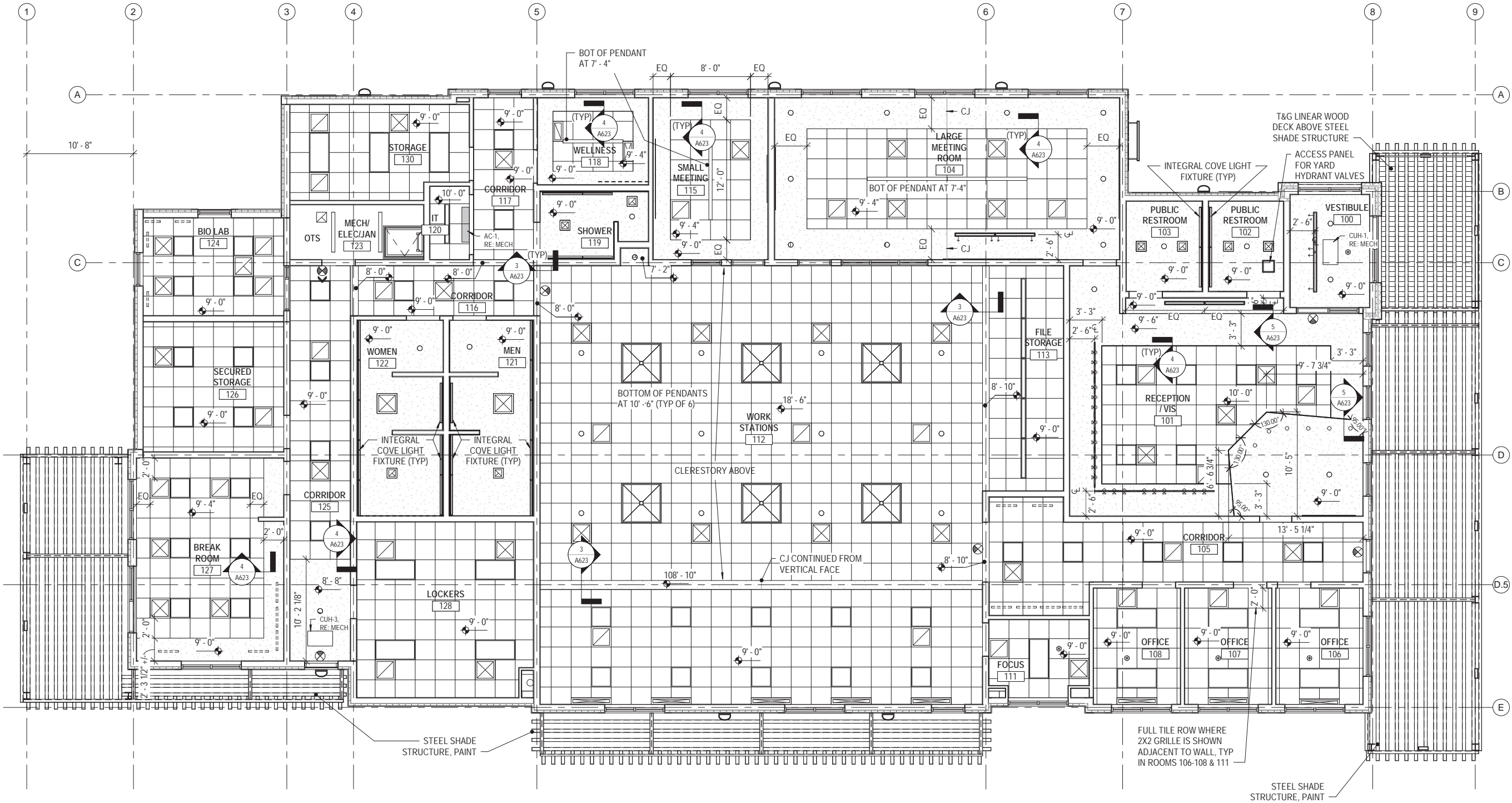
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REFLECTED CEILING PLAN LEGEND

	GYP BD, PAINT		LINEAR FLUORESCENT, PENDANT RE: ELEC		PENDANT, RE: ELEC		SUPPLY AIR GRILLE, RE: MECH
	2X2 SUSPENDED ACOUSTIC GRID, BALANCE TILE AND GRID AT EDGES IN ROOMS, UNO.		UNDERCABINET LIGHT RE: ELEC		DOWNLIGHT, RE: ELEC		EXHAUST FAN, RE: MECH
	EXTERIOR WALL SCONCE, RE: ELEC		48\"X 24\" LED TROFFER, RE: ELEC		DIRECTIONAL DOWNLIGHT, RE: ELEC		RETURN AIR GRILLE, RE: MECH
	TRACK LIGHT, RE: ELEC		24\"X 24\" LED TROFFER, RE: ELEC		EXIT SIGN, INDICATING DIRECTIONAL ARROW & SIGN ORIENTATION, RE: ELEC		OCCUPANCY SENSOR, RE: ELEC

NOTE:
1. CENTER LIGHT FIXTURES IN SPACE AS SHOWN ON REFLECTED CEILING PLANS WHEN LIGHT FIXTURES ARE NOT DIMENSIONED. (TYP)
2. PROVIDE MANUAL ROLLER SHADES ON ALL EXTERIOR WINDOWS AT MAIN FLOOR LEVEL WITH THE EXCEPTION OF VESTIBULE 100 AND PUBLIC RESTROOMS 102 & 103, MANUAL TYPE. PROVIDE BLACKOUT SHADES AT LARGE MEETING ROOM 104. PROVIDE MOTORIZED ROLLER SHADES AT ALL CLERESTORY WINDOWS.
3. PROVIDE WINDOW SHADES ON SOUTH CLERESTORY WINDOWS, ELECTRIC TYPE.
4. LOCATE CEILING MOUNTED DEVICES IN CENTERS OF CEILING TILES.



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**REFLECTED
CEILING PLAN**

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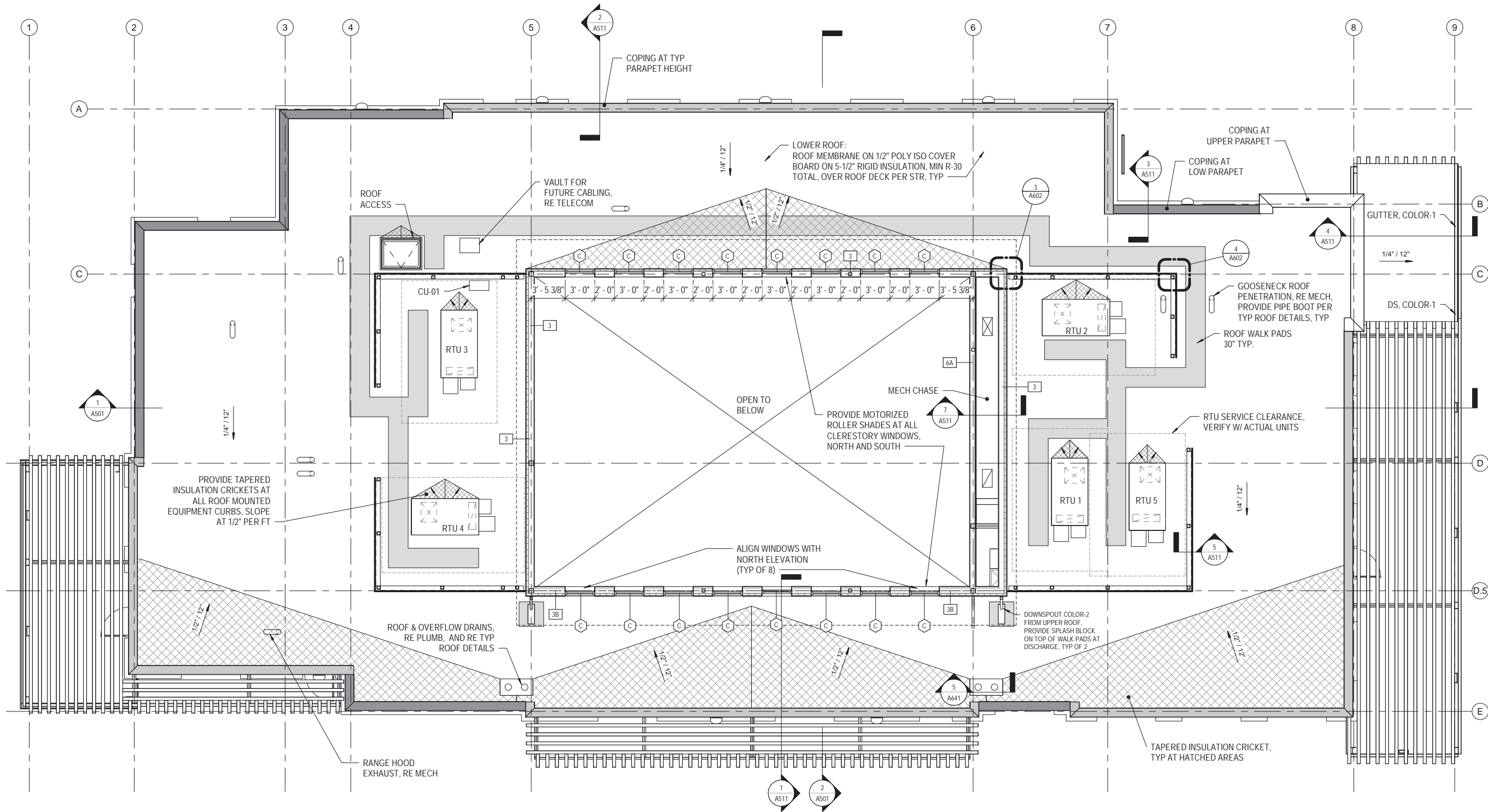
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- GENERAL ROOF NOTES:**
1. MINIMUM INSULATION THICKNESS AT INTERNAL ROOF DRAINS SHALL BE 2 INCHES.
 2. PROVIDE POSITIVE DRAINAGE AT ALL AREAS OF ROOF. PONDING OF WATER IS NOT ACCEPTABLE.
 3. SEE REFLECTED CEILING PLANS FOR ADDITIONAL DIMENSIONS.
 4. SLOPE ALL GUTTERS TO DOWNSPOUTS MINIMUM 1/16 INCH PER FOOT.
 5. SEE SPECIFICATIONS FOR ROOF ACCESSORY SIZES.
 6. ALL EQUIPMENT CRICKETS SHALL BE SLOPED 1/2 INCH PER FOOT.
 7. WHERE DOWNSPOUTS DISCHARGE FROM ONE ROOF ONTO ANOTHER, PROVIDE A DISCHARGE MANIFOLD ON THE END OF THE DOWNSPOUT TO DISPERSE THE WATER ONTO THE LOWER ROOF.
 8. PROVIDE PIPE SUPPORTS FOR ALL ELECTRICAL AND MECHANICAL PIPING ABOVE THE ROOF MEMBRANE. PROVIDE DUAL-BLOCK PRODUCTS OR EQUIVALENT(NO WOOD ALLOWED).
 9. MOUNT CU-01 ON PREFAB SUPPORTS MIN 12" ABOVE ROOF.




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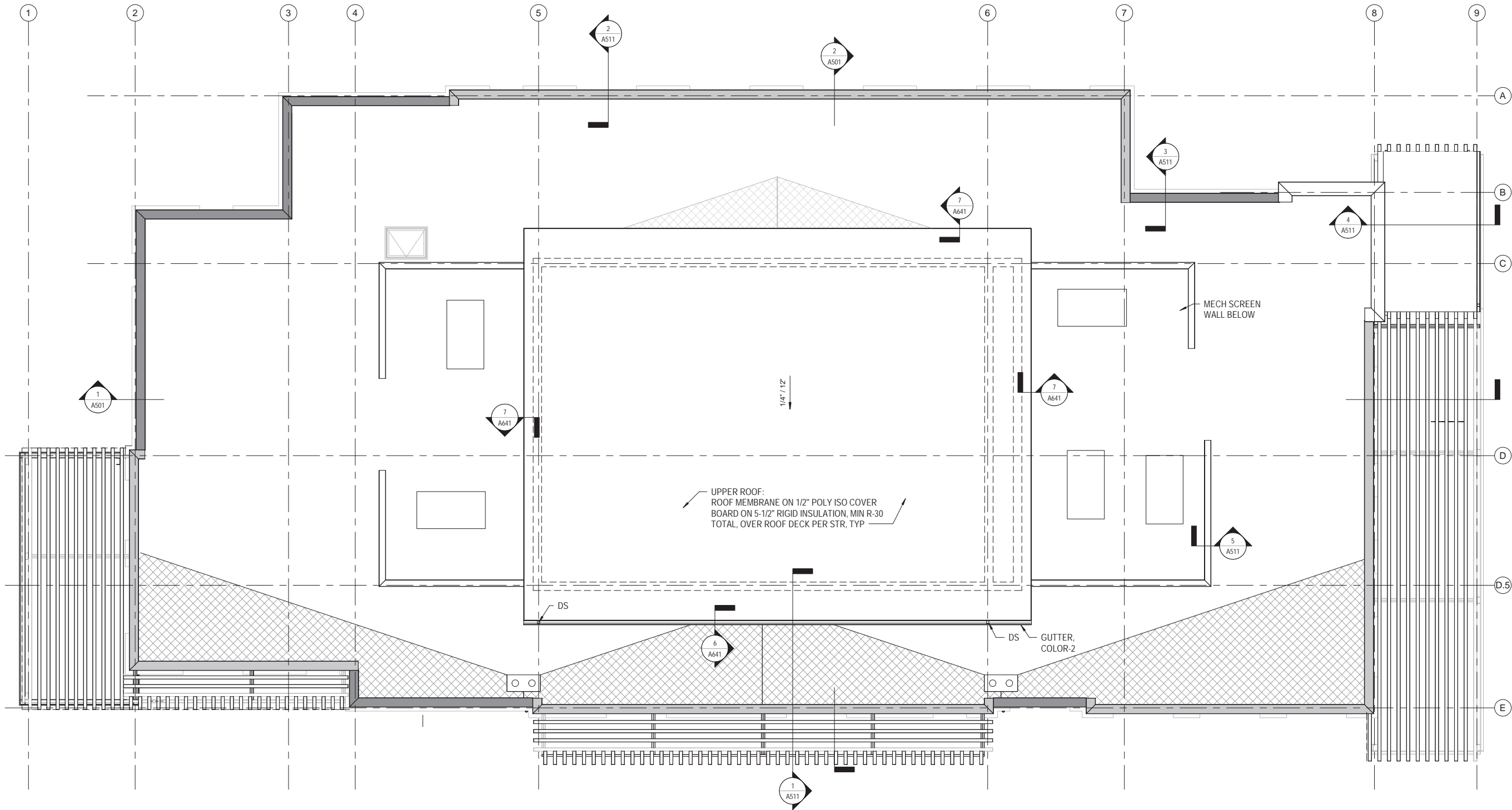
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LOWER ROOF PLAN

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1 UPPER ROOF PLAN
A142
3/16" = 1'-0" (at full size)

- GENERAL ROOF NOTES:**
1. MINIMUM INSULATION THICKNESS AT INTERNAL ROOF DRAINS SHALL BE 2 INCHES.
 2. PROVIDE POSITIVE DRAINAGE AT ALL AREAS OF ROOF. PONDING OF WATER IS NOT ACCEPTABLE.
 3. SEE REFLECTED CEILING PLANS FOR ADDITIONAL DIMENSIONS.
 4. SLOPE ALL GUTTERS TO DOWNSPOUTS MINIMUM 1/16 INCH PER FOOT.
 5. SEE SPECIFICATIONS FOR ROOF ACCESSORY SIZES.
 6. ALL EQUIPMENT CRICKETS SHALL BE SLOPED 1/2 INCH PER FOOT.
 7. WHERE DOWNSPOUTS DISCHARGE FROM ONE ROOF ONTO ANOTHER, PROVIDE A DISCHARGE MANIFOLD ON THE END OF THE DOWNSPOUT TO DISPERSE THE WATER ONTO THE LOWER ROOF.
 8. PROVIDE PIPE SUPPORTS FOR ALL ELECTRICAL AND MECHANICAL PIPING ABOVE THE ROOF MEMBRANE. PROVIDE DUAL-BLOCK PRODUCTS OR EQUIVALENT(NO WOOD ALLOWED).
 9. MOUNT CU-01 ON PREFAB SUPPORTS MIN 12" ABOVE ROOF.



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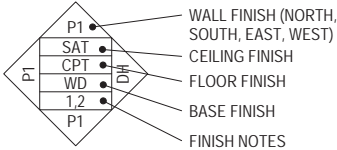
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UPPER ROOF PLAN

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INTERIOR FINISH LEGEND



NOTE:

COLORS, RE: INTERIOR COLOR SCHEDULE A741.
PATTERN AT WALLS, RE: INTERIOR ELEVATIONS A401-A406.
PATTERN AT CEILINGS, RE: REFLECTED CEILING PLAN A121.
FLOOR FINISH TRANSITIONS, RE: A701.

WALL FINISHES

P# - GYPSUM WALLBOARD W/ PAINT.
T# - CERAMIC/PORCELAIN TILE.
ALUM/GL - ALUMINUM AND GLASS STOREFRONT.
CG - CORNER GUARD

CEILING FINISH

APC# - SUSPENDED ACOUSTICAL PANEL
CEILING GRID AND TILE.
P# - GYPSUM WALLBOARD WITH PAINT.
OTS - OPEN TO STRUCTURE ABOVE, PAINT
EXPOSED STRUCTURE P2.

FLOOR FINISHES

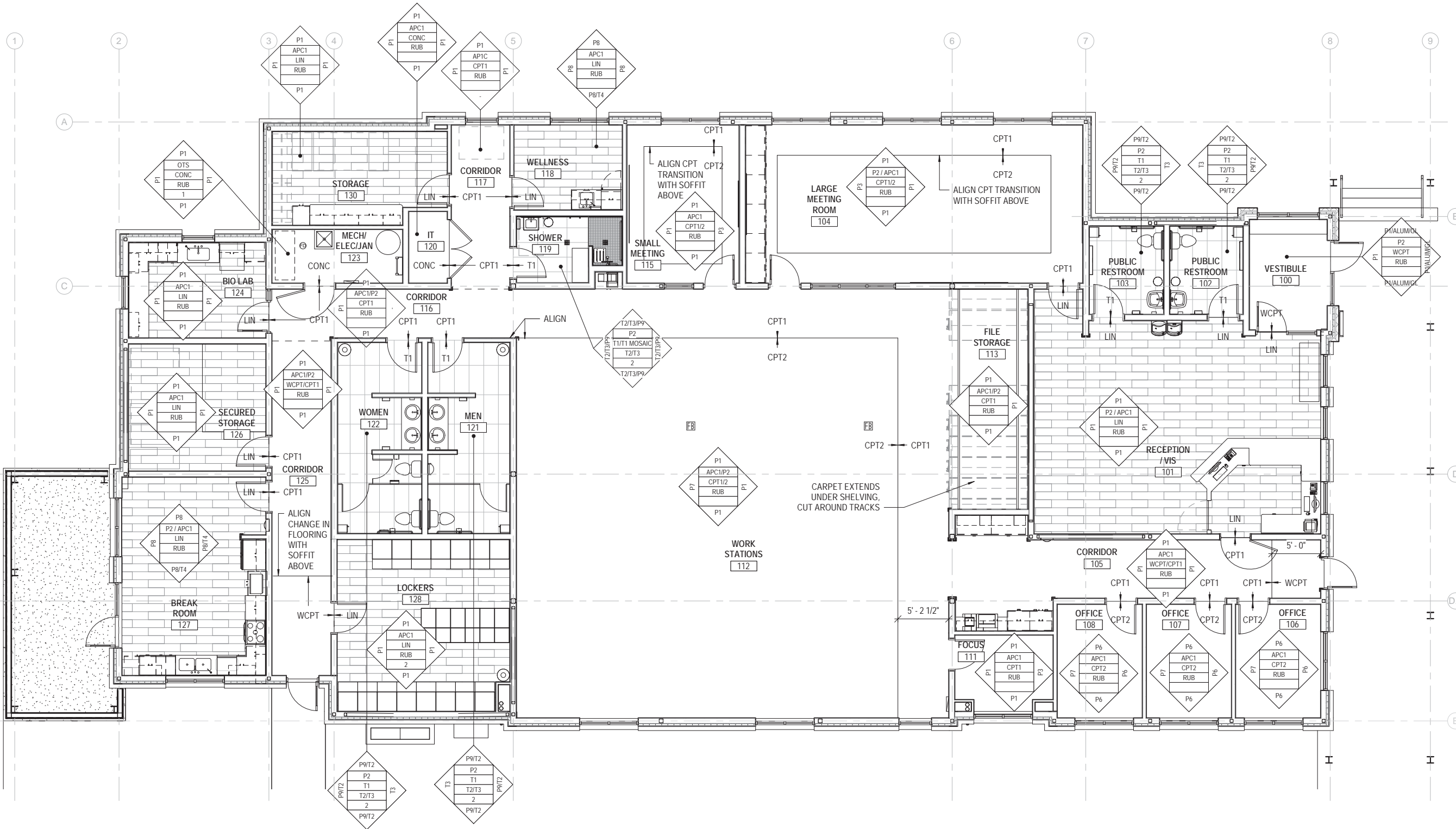
T# - CERAMIC/PORCELAIN FLOOR TILE.
LIN - LINOLEUM.
CPT - CARPET TILE.
WCPT - WALK OFF CARPET TILE.
CONC - SEALED CONCRETE

BASE FINISHES

T# - CERAMIC/PORCELAIN
TILE BASE.
RUB - RUBBER BASE.

FINISH NOTES

1. PROVIDE FRP BEHIND MOP SINK TO HEIGHT OF 5'-0" AFF. EXTEND SIDES OF FRP TO 2'-0" PAST EDGE OF MOP SINK BASE.
2. PROVIDE HIGH PERFORMANCE EPOXY WALL PAINT.



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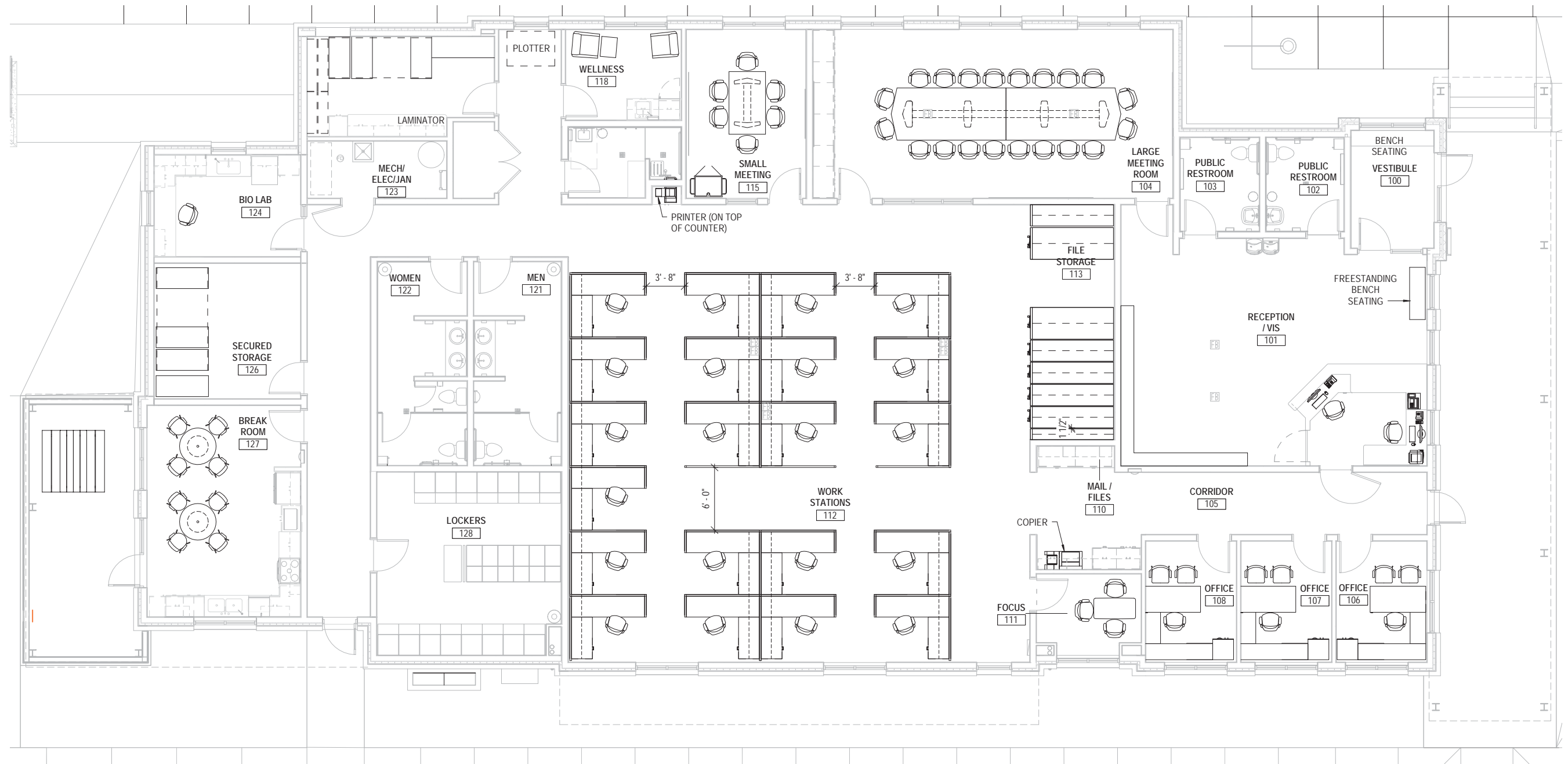
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DRAWING TITLE
**INTERIOR FINISH
PLAN**

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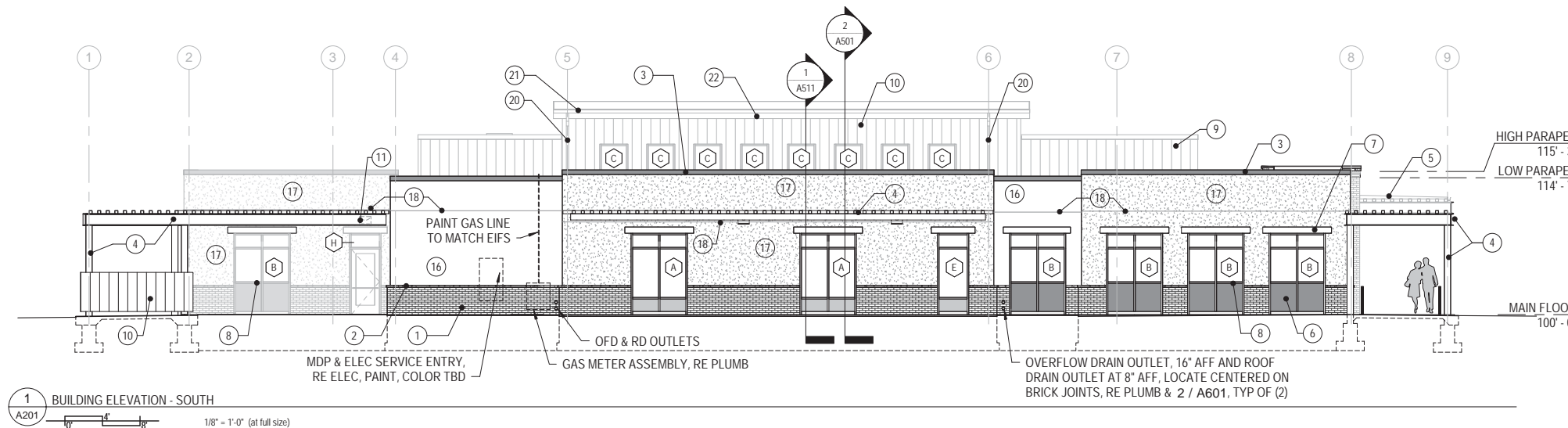
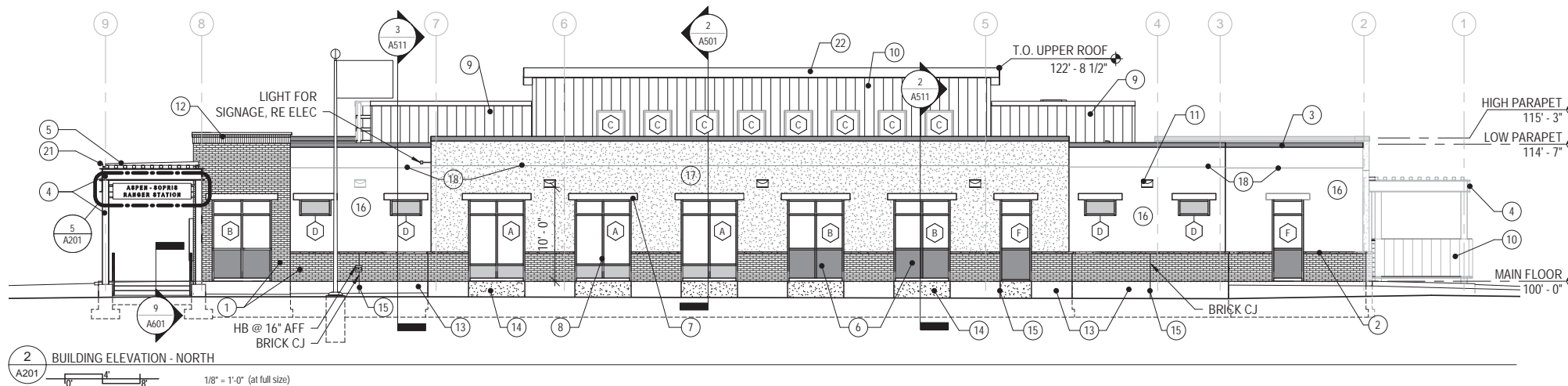
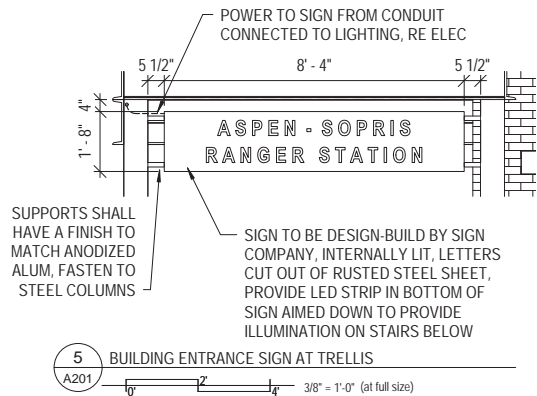
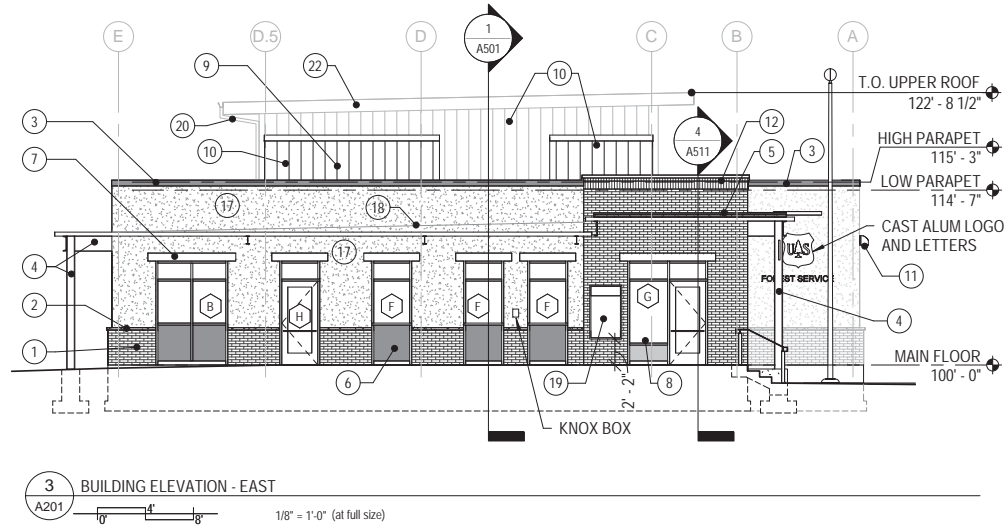
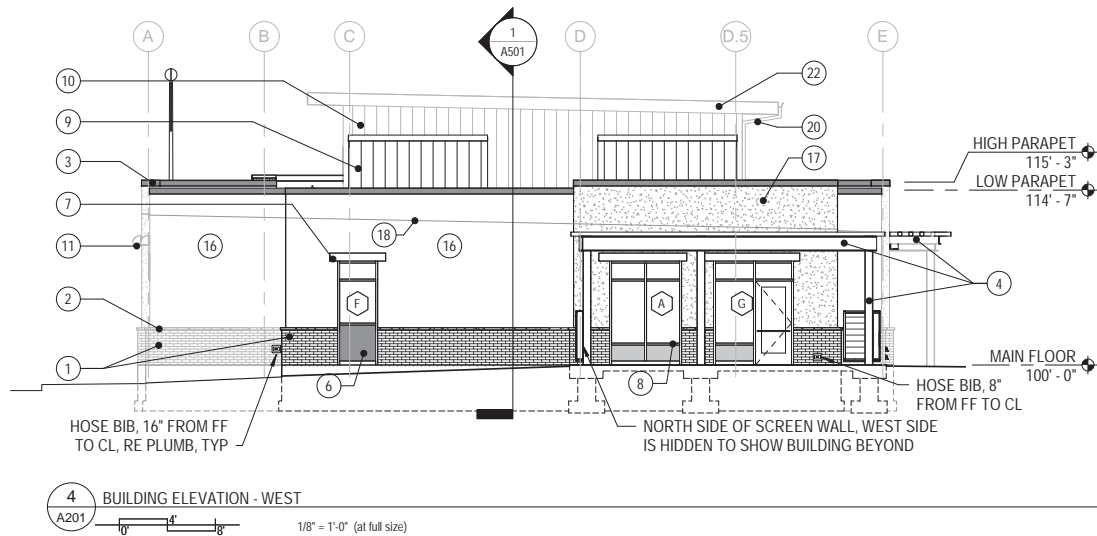
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DRAWING TITLE
**FURNITURE PLAN
(REFERENCE ONLY)**

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PROJECT NAME
**ASPEN-SOPRIS
RANGER DISTRICT
OFFICE**

ASPEN / SOPRIS RANGER DISTRICT

DRAWING TITLE
**EXTERIOR
ELEVATIONS**

ARCHIVE
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DESIGNER
ENM
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DGG

DATE
7/9/2020

SUB SHEET
NO.

A201

SHEET
45 OF **119**



EXTERIOR VIEW - NORTHEAST



EXTERIOR VIEW - NORTHWEST



EXTERIOR VIEW - SOUTHEAST



EXTERIOR VIEW - SOUTHWEST




UNITED STATES
DEPARTMENT OF AGRICULTURE




FOREST SERVICE

R2

ROCKY MOUNTAIN
REGION

STAMPS, LOGOS, AND
SEALS



		
		
		
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OFFICE

ASPEN / SOPRIS RANGER DISTRICT

DRAWING TITLE

EXTERIOR
PERSPECTIVE
VIEWS (REFERENCE
ONLY)

ARCHIVE
NO. 100% CONSTRUCTION DOCUMENTS

DESIGNER ENM	SUB SHEET NO. A202
CHECKED DGG	
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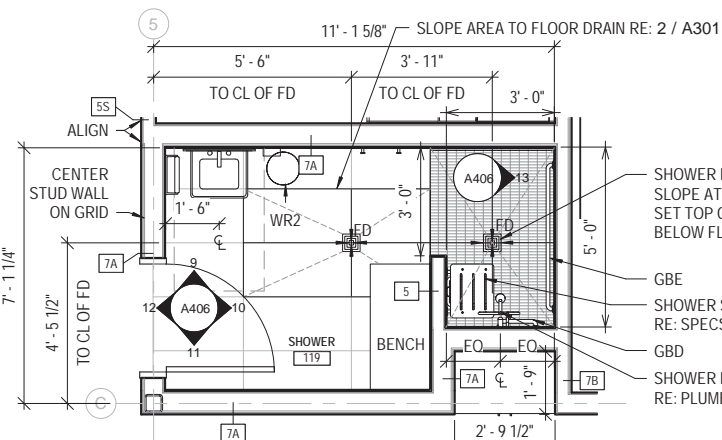
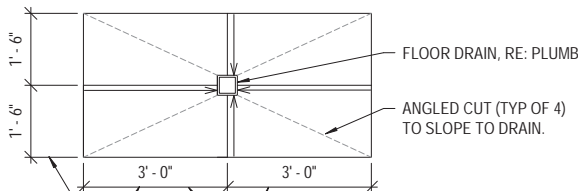
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NOTE: TILE DIMENSIONS ARE NOMINAL MAY NOT BE EXACTLY 1'-6" X 3', INSTALL WITH MANUFACTURER'S RECOMMENDED GROUT JOINT WIDTH

- NOTES:
1. SLOPE 1/8" PER FOOT MINIMUM, 1/4" PER FOOT MAXIMUM. SET TOP OF FLOOR DRAIN AT -3/16" BELOW FLOOR LEVEL.
 2. START TILE PATTERN AT CENTER OF FLOOR DRAIN AS SHOWN ABOVE UNLESS DISCUSSED DIFFERENTLY WITH CONTRACTING OFFICER IN FIELD.

2 FLOOR DRAIN DETAIL

A301 1/2" = 1'-0" (at full size)



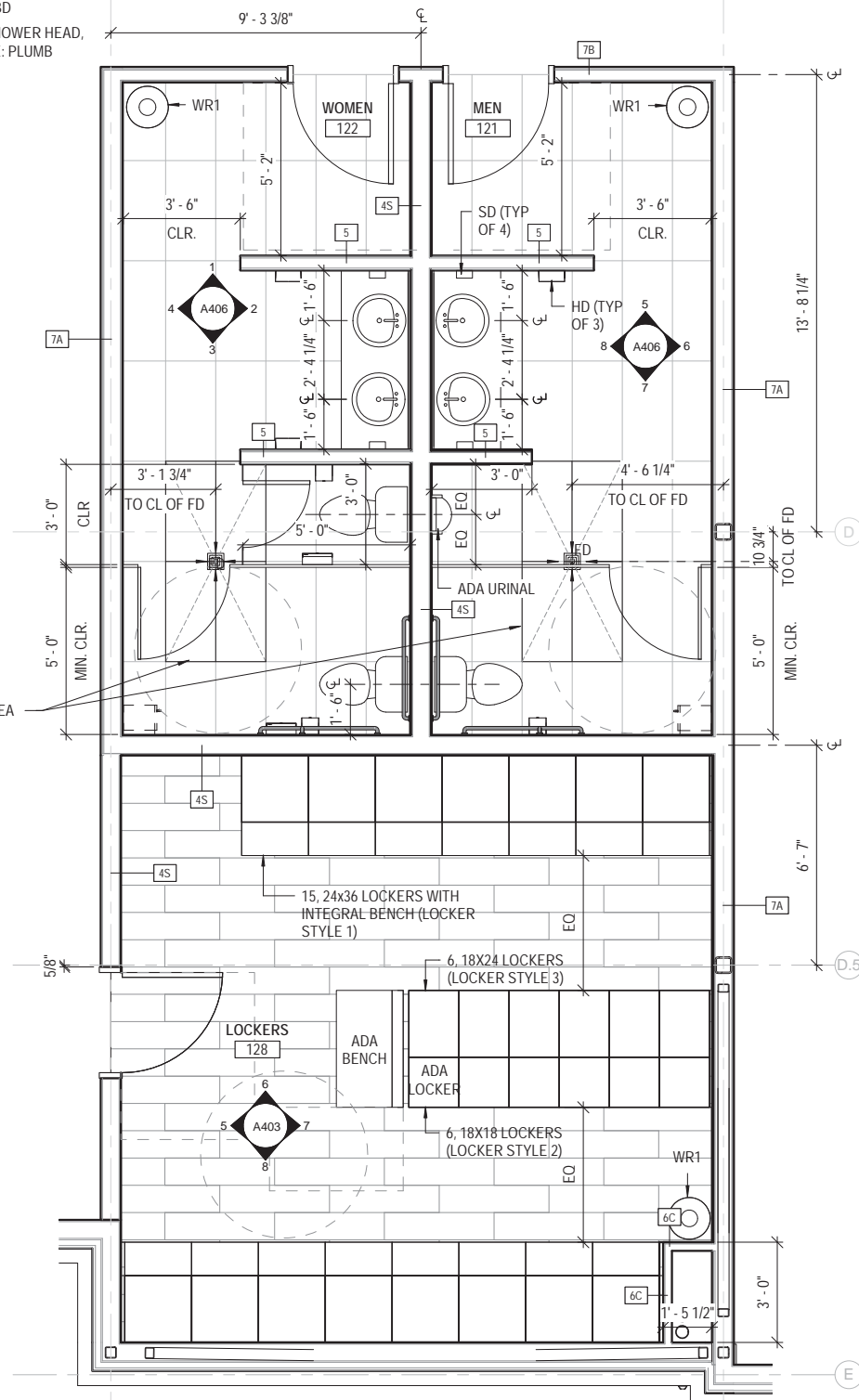
1 ENLARGED PLAN - ACCESSIBLE SHOWER 119

A301 3/8" = 1'-0" (at full size)

SHOWER PAN DETAIL RE: 1 / A623
SLOPE AT MAX OF 1/4" / FOOT TO DRAIN
SET TOP OF FLOOR DRAIN AT -3/8" BELOW FLOOR LEVEL

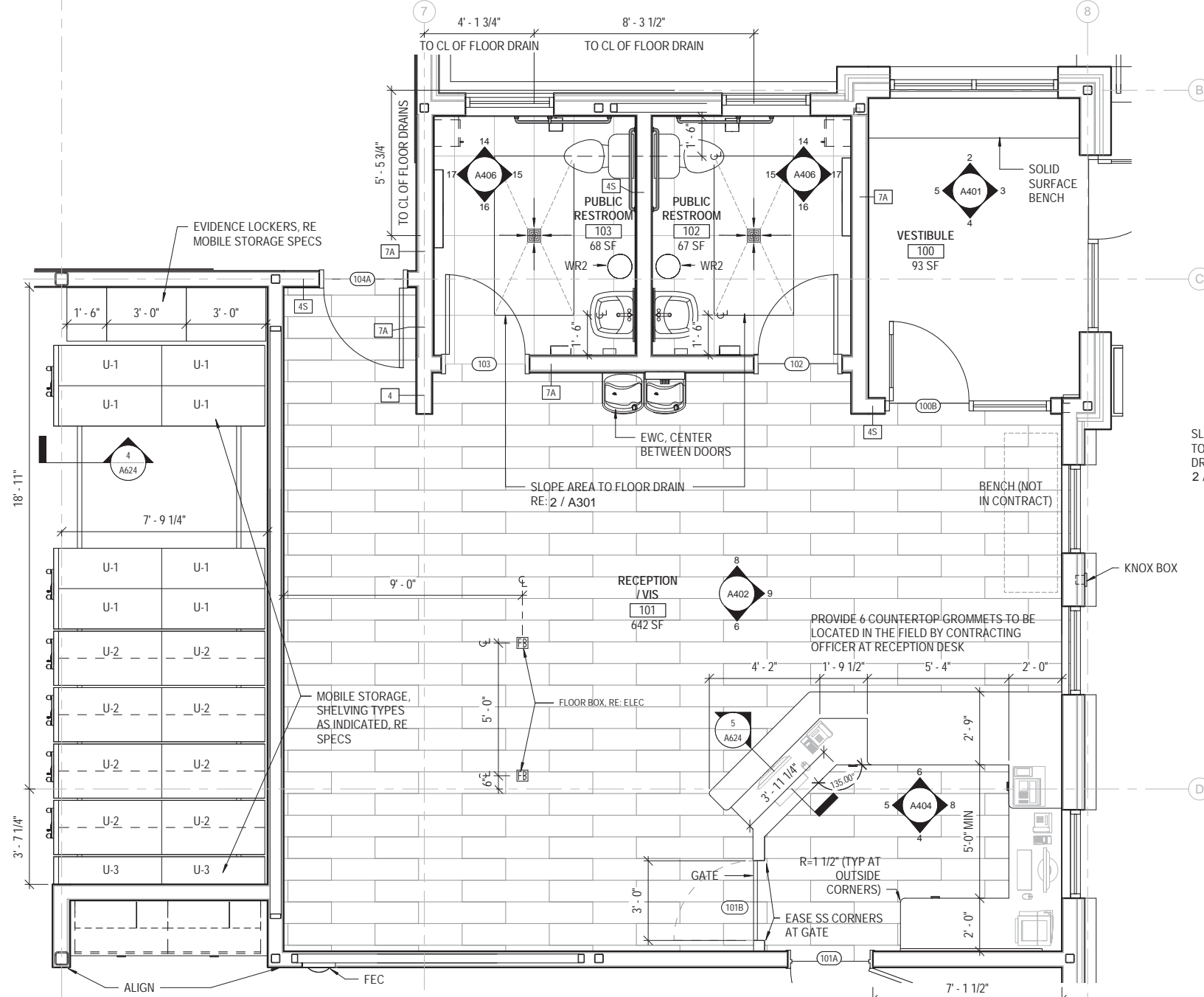
GBE
SHOWER SEAT,
RE: SPECS
GBD
SHOWER HEAD,
RE: PLUMB

SLOPE AREA
TO FLOOR
DRAIN RE:
2 / A301



3 ENLARGED PLAN - MEN 121, WOMEN 122 & LOCKERS 128

A301 3/8" = 1'-0" (at full size)



4 ENLARGED PLAN - RECEPTION/VIS 101 AREA

A301 3/8" = 1'-0" (at full size)



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RANGER DISTRICT
OFFICE**

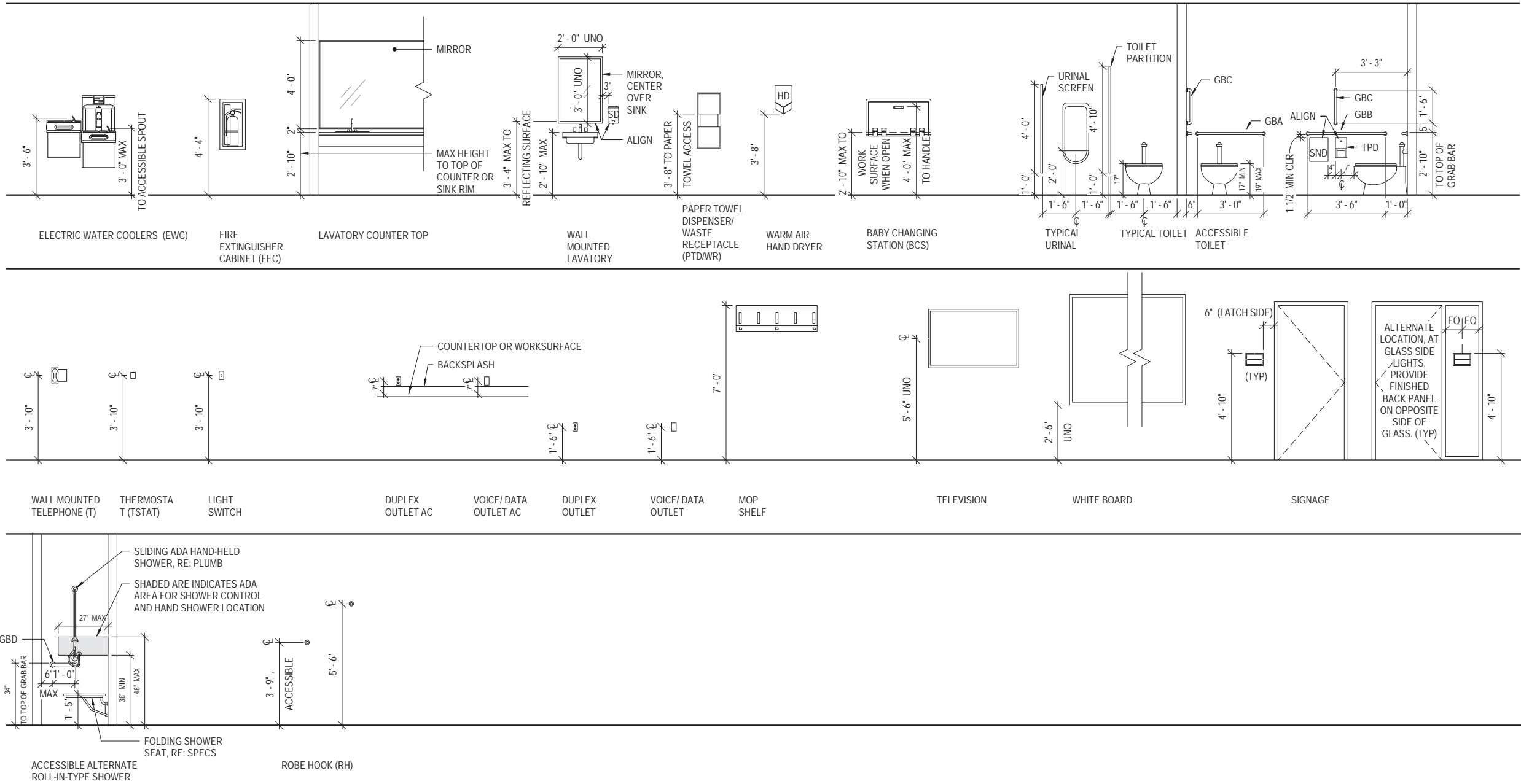
ASPEN / SOPRIS RANGER DISTRICT

DRAWING TITLE
**ENLARGED FLOOR
PLANS**

ARCHIVE
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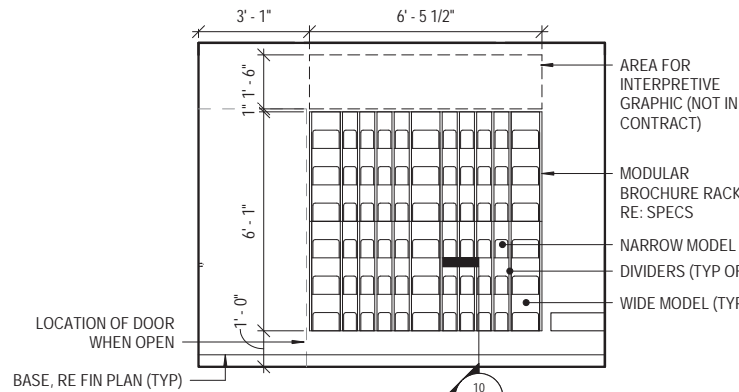
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1 TYPICAL ELEVATION HEIGHTS

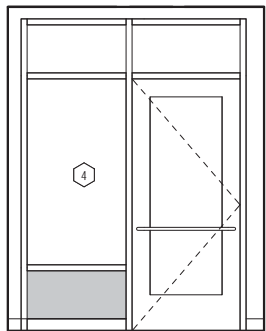
A401 3/8" = 1'-0" (at full size)

NOTE: PROVIDE TREATED WOOD BLOCKING AT ALL WALL MOUNTED ACCESSORIES AND AT AREAS NOTED ON ELEVATIONS FOR FUTURE GOVERNMENT INSTALLED ITEMS.



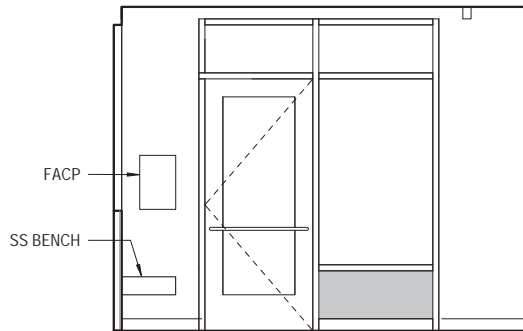
5 ENTRY VESTIBULE 100 - WEST

A401 3/8" = 1'-0" (at full size)



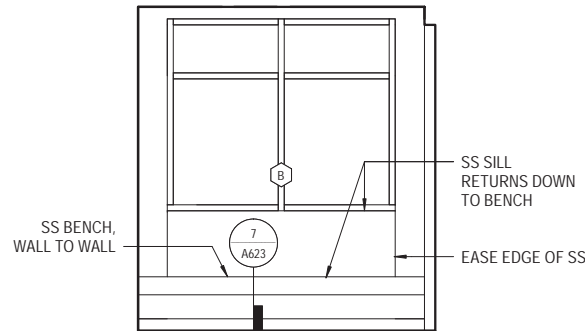
4 ENTRY VESTIBULE 100 - SOUTH

A401 3/8" = 1'-0" (at full size)



3 ENTRY VESTIBULE 100 - EAST

A401 3/8" = 1'-0" (at full size)



2 ENTRY VESTIBULE 100 - NORTH

A401 3/8" = 1'-0" (at full size)



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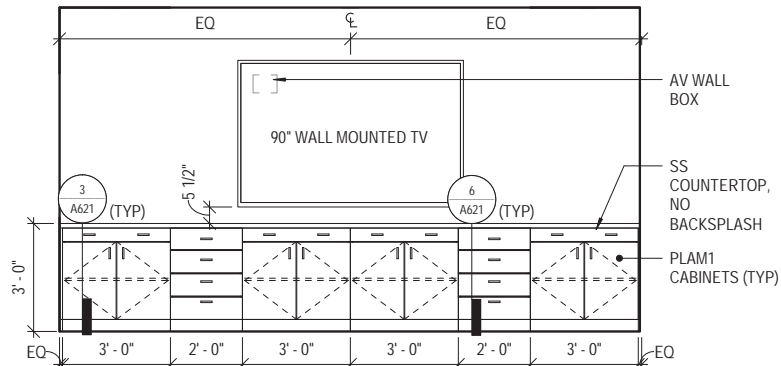
ASPEN / SOPRIS RANGER DISTRICT

DRAWING TITLE
**INTERIOR
ELEVATIONS**

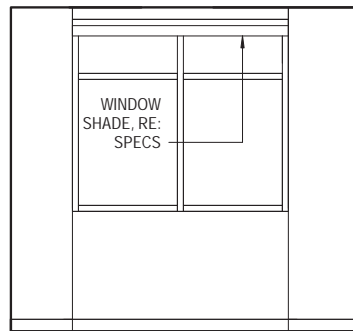
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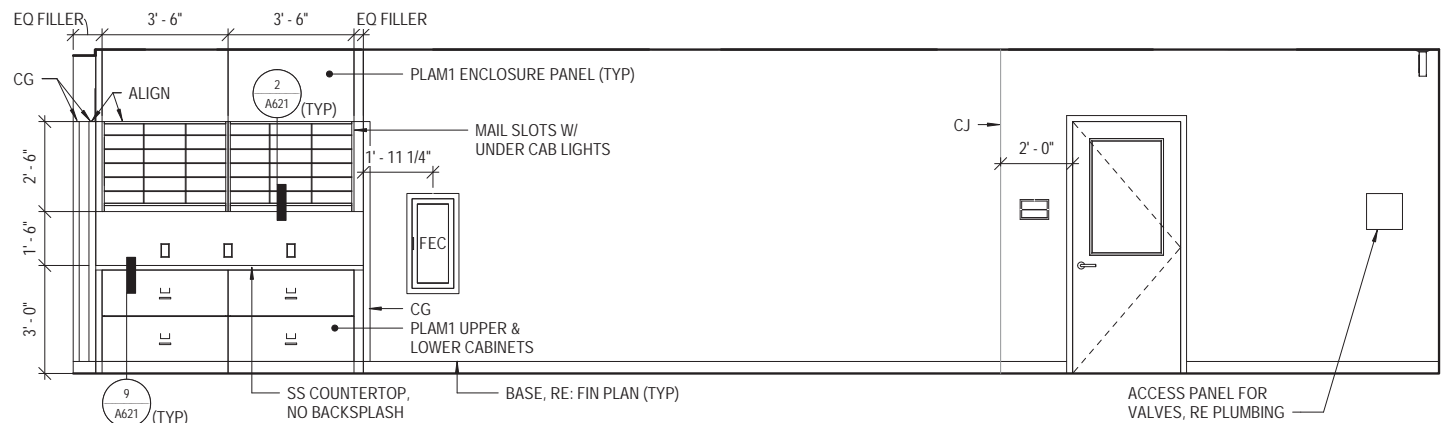
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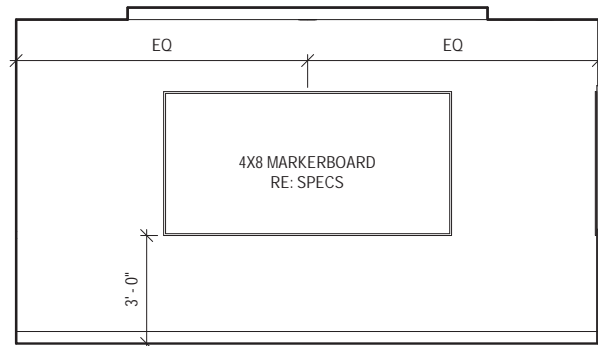
3 MEETING ROOM 143 - WEST
A402 3/8" = 1'-0" (at full size)



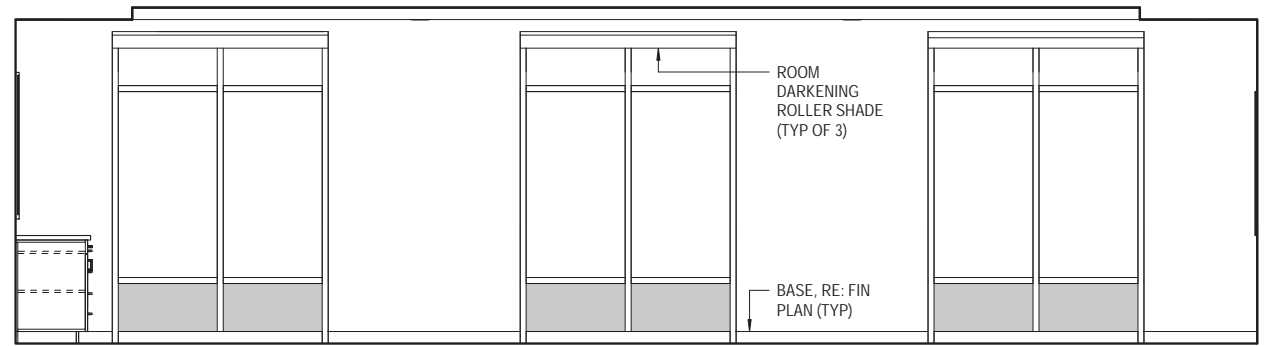
2 FOCUS 111 - SOUTH
A402 3/8" = 1'-0" (at full size)



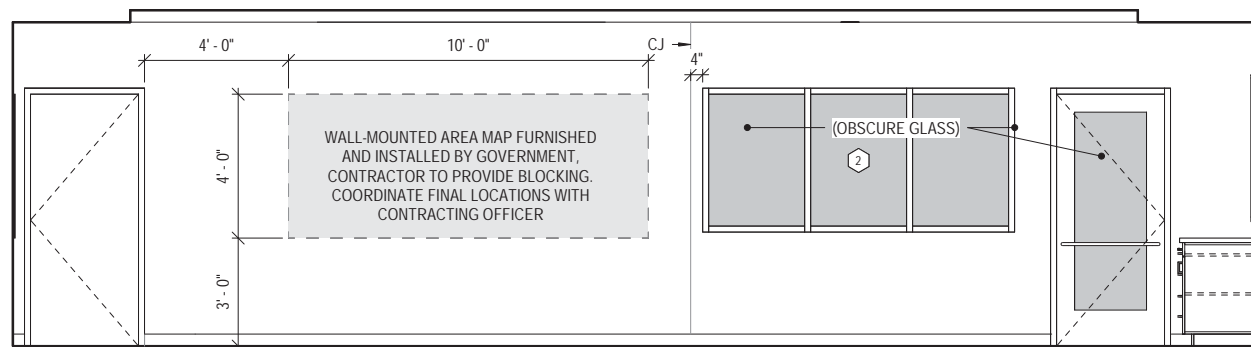
1 CORRIDOR 105 & MAIL / FILES 110 - NORTH
A402 3/8" = 1'-0" (at full size)



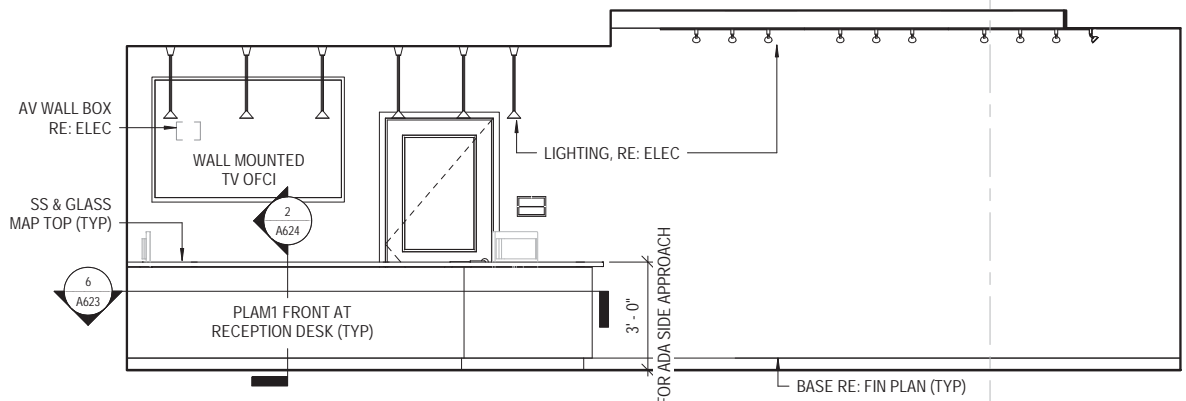
5 MEETING ROOM 143 - EAST
A402 3/8" = 1'-0" (at full size)



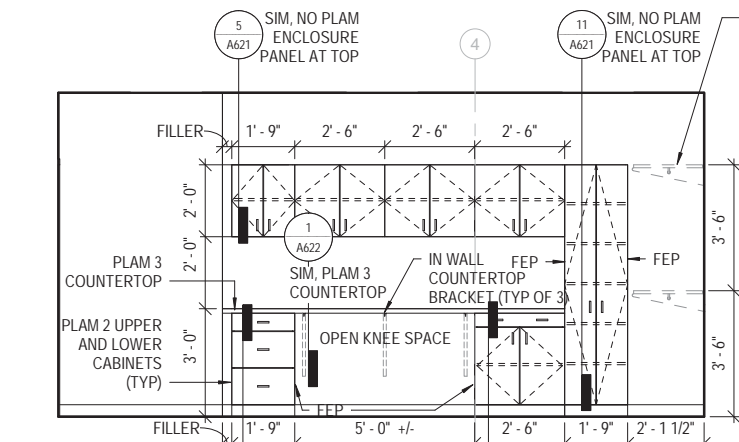
4 MEETING ROOM 143 - NORTH
A402 3/8" = 1'-0" (at full size)



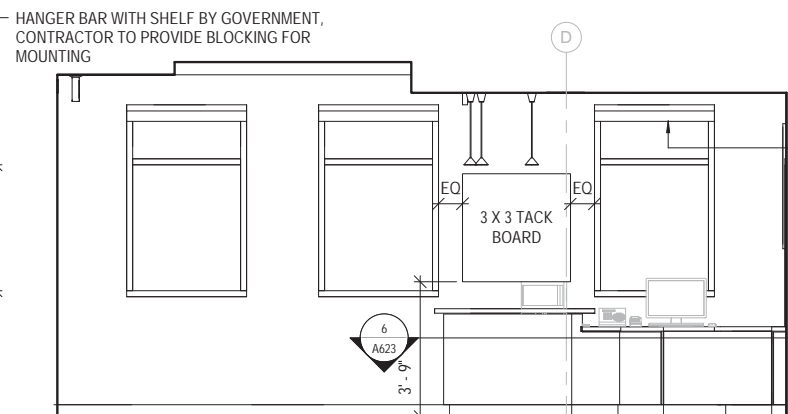
7 MEETING ROOM 143 - SOUTH
A402 3/8" = 1'-0" (at full size)



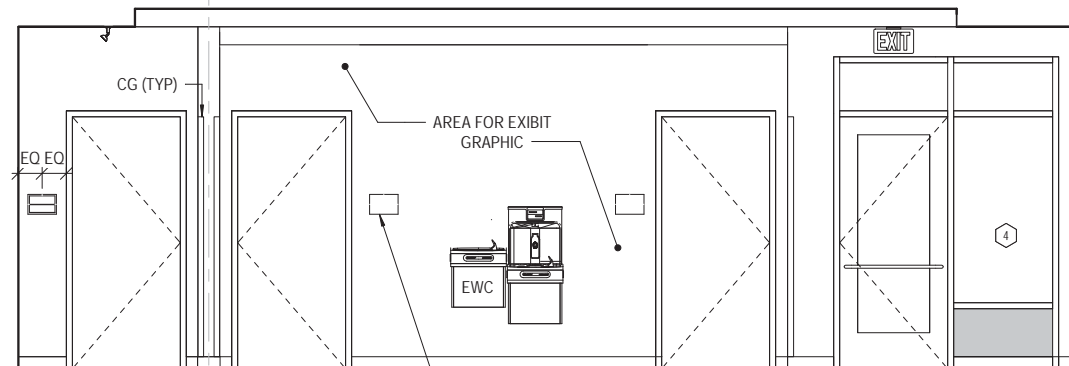
6 RECEPTION / VIS 101 - SOUTH
A402 3/8" = 1'-0" (at full size)



10 STORAGE 130 - SOUTH
A402 3/8" = 1'-0" (at full size)



9 RECEPTION / VIS 101 - EAST
A402 3/8" = 1'-0" (at full size)



8 RECEPTION / VIS 101 - NORTH
A402 3/8" = 1'-0" (at full size)



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RANGER DISTRICT
OFFICE**

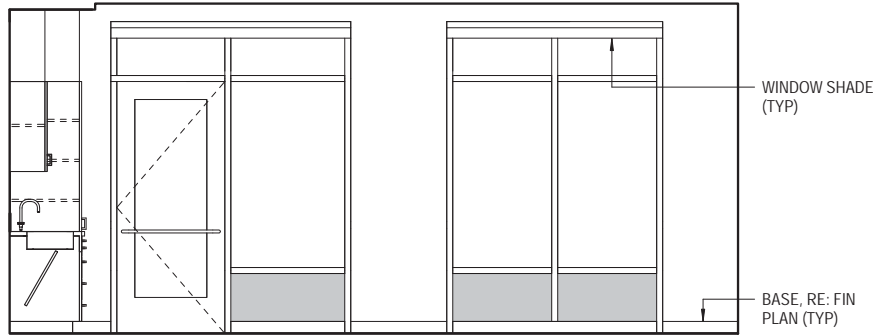
8 ASPEN / SOPRIS RANGER DISTRICT

DRAWING TITLE
**INTERIOR
ELEVATIONS**

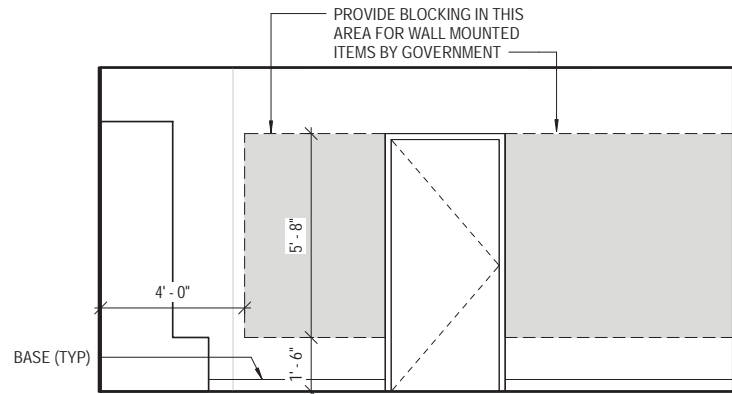
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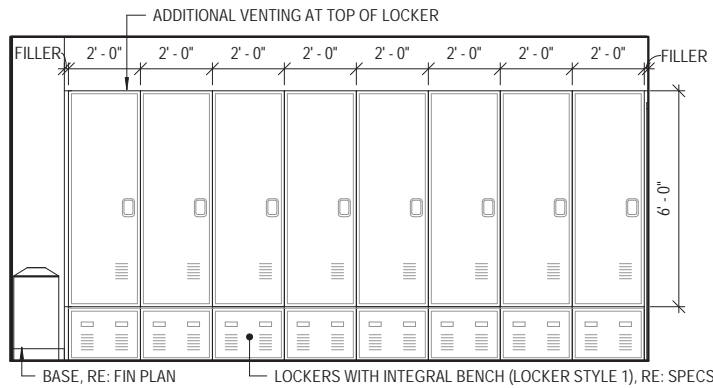
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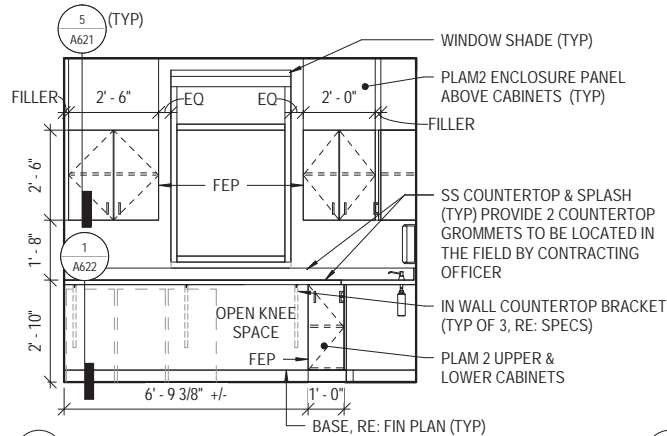
2 CAFE 127 - WEST
A403



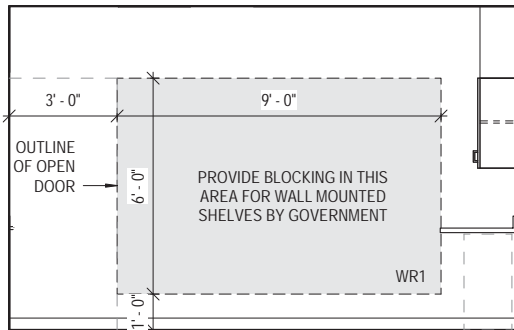
5 LOCKERS / SECURED STORAGE 128 - WEST
A403



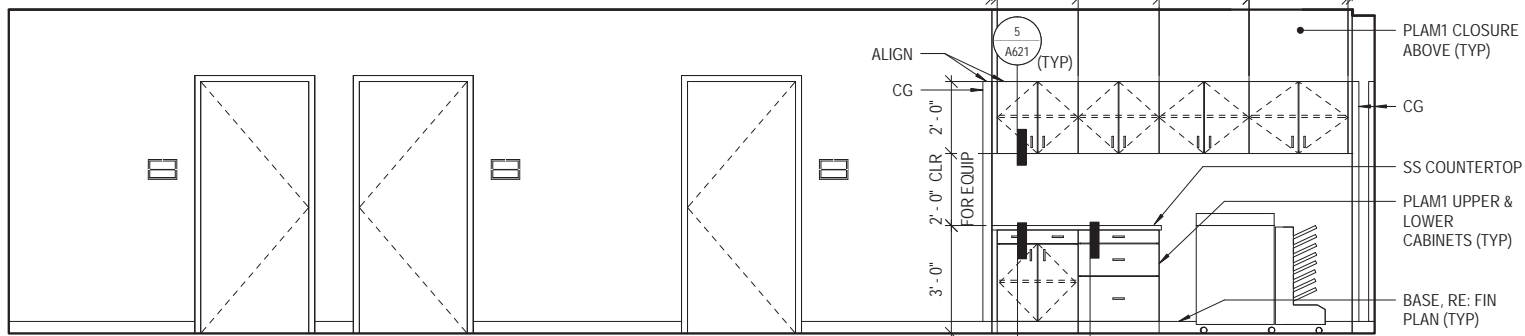
8 LOCKERS / SECURED STORAGE 128 - SOUTH
A403



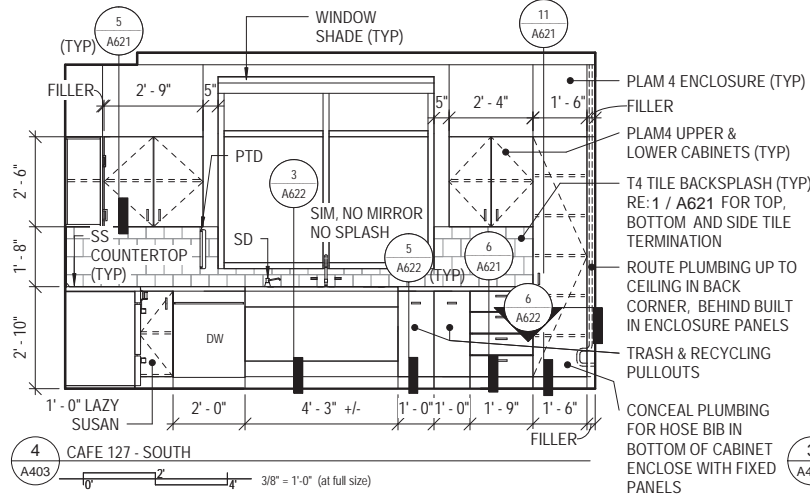
12 BIO LAB - WEST
A403



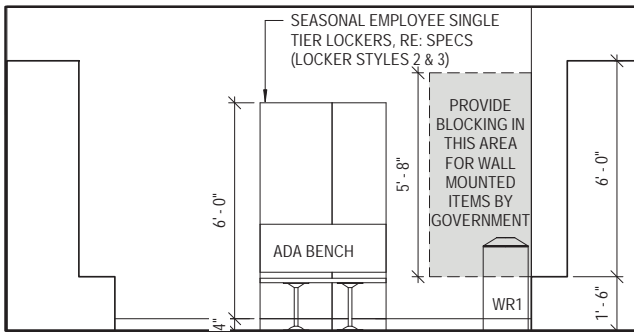
11 BIO LAB - SOUTH
A403



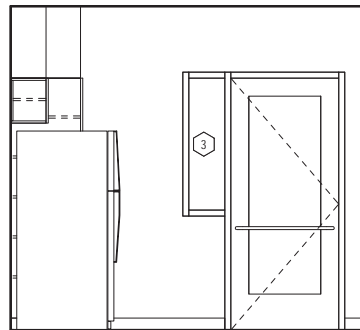
1 CORRIDOR 105 & COPY / PRINT 109 - SOUTH
A403



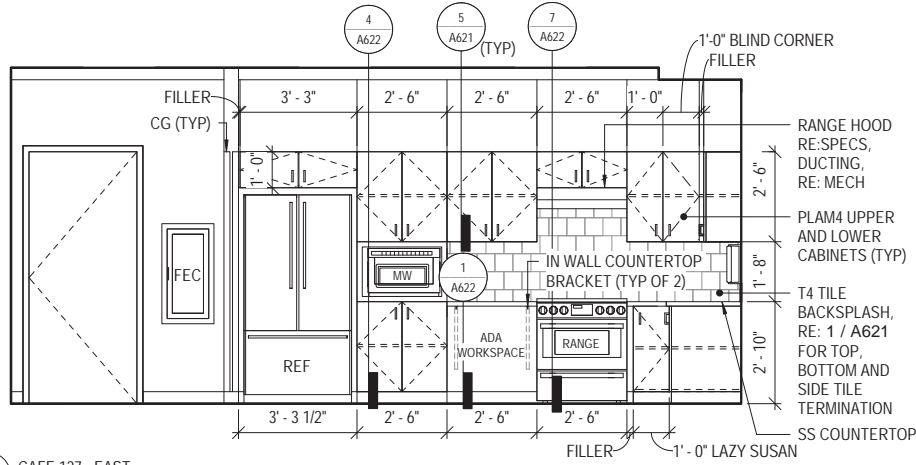
4 CAFE 127 - SOUTH
A403



7 LOCKERS / SECURED STORAGE 128 - EAST
A403



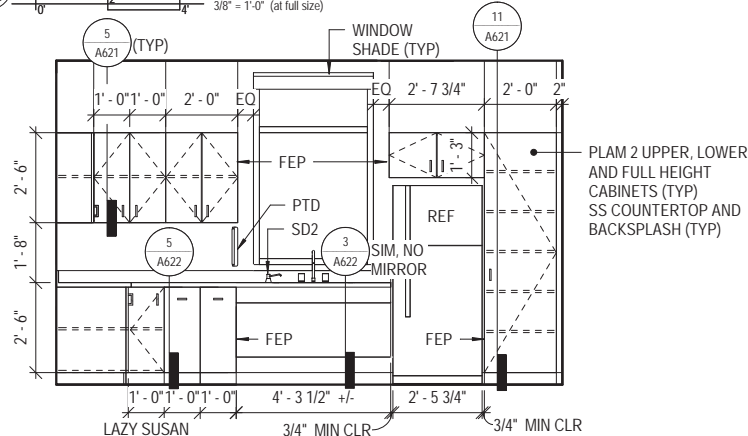
10 BIO LAB - EAST
A403



3 CAFE 127 - EAST
A403



6 LOCKERS / SECURED STORAGE 128 - NORTH
A403



9 BIO LAB - NORTH
A403



UNITED STATES
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FOREST SERVICE

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ROCKY MOUNTAIN
REGION

STAMPS, LOGOS, AND
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RANGER DISTRICT
OFFICE**

ASPEN / SOPRIS RANGER DISTRICT




DRAWING TITLE
**INTERIOR
ELEVATIONS**

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CENTER for
DESIGN &
INTERPRETATION
CDI

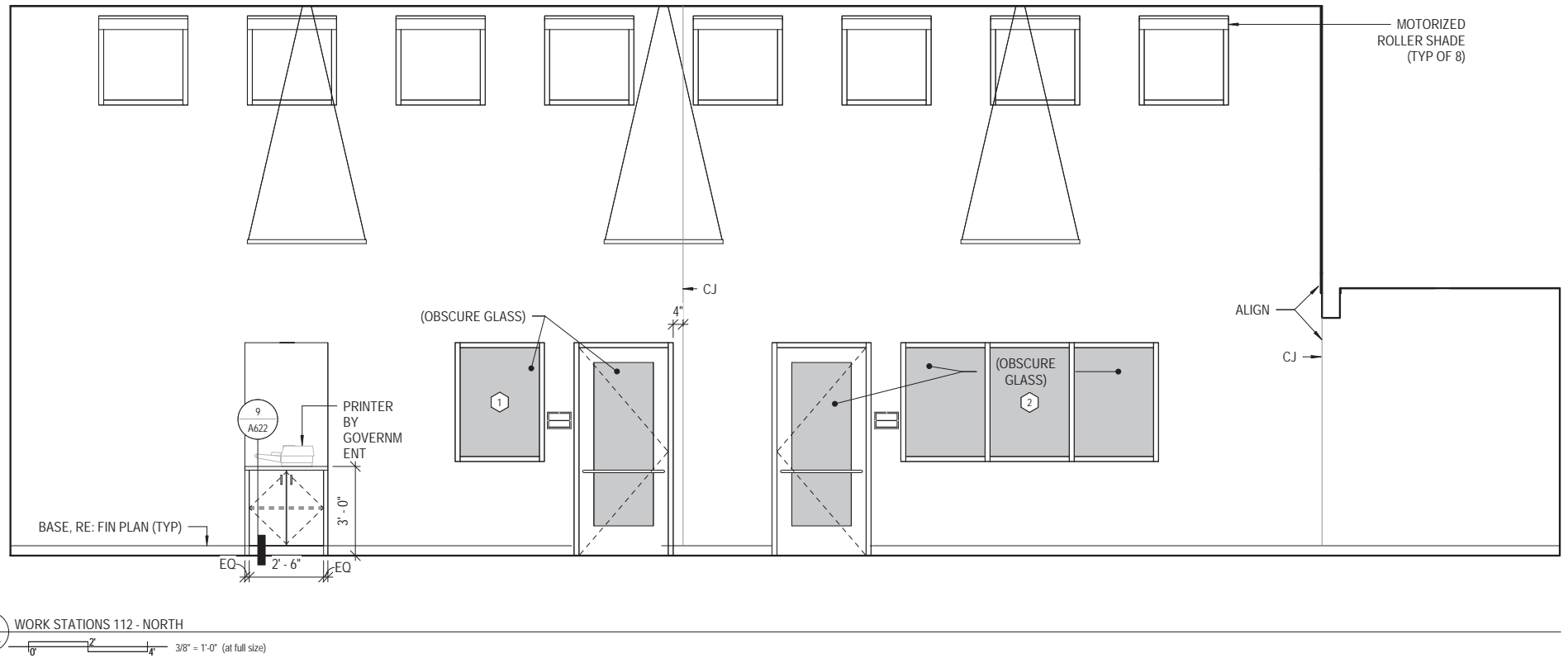
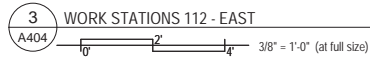
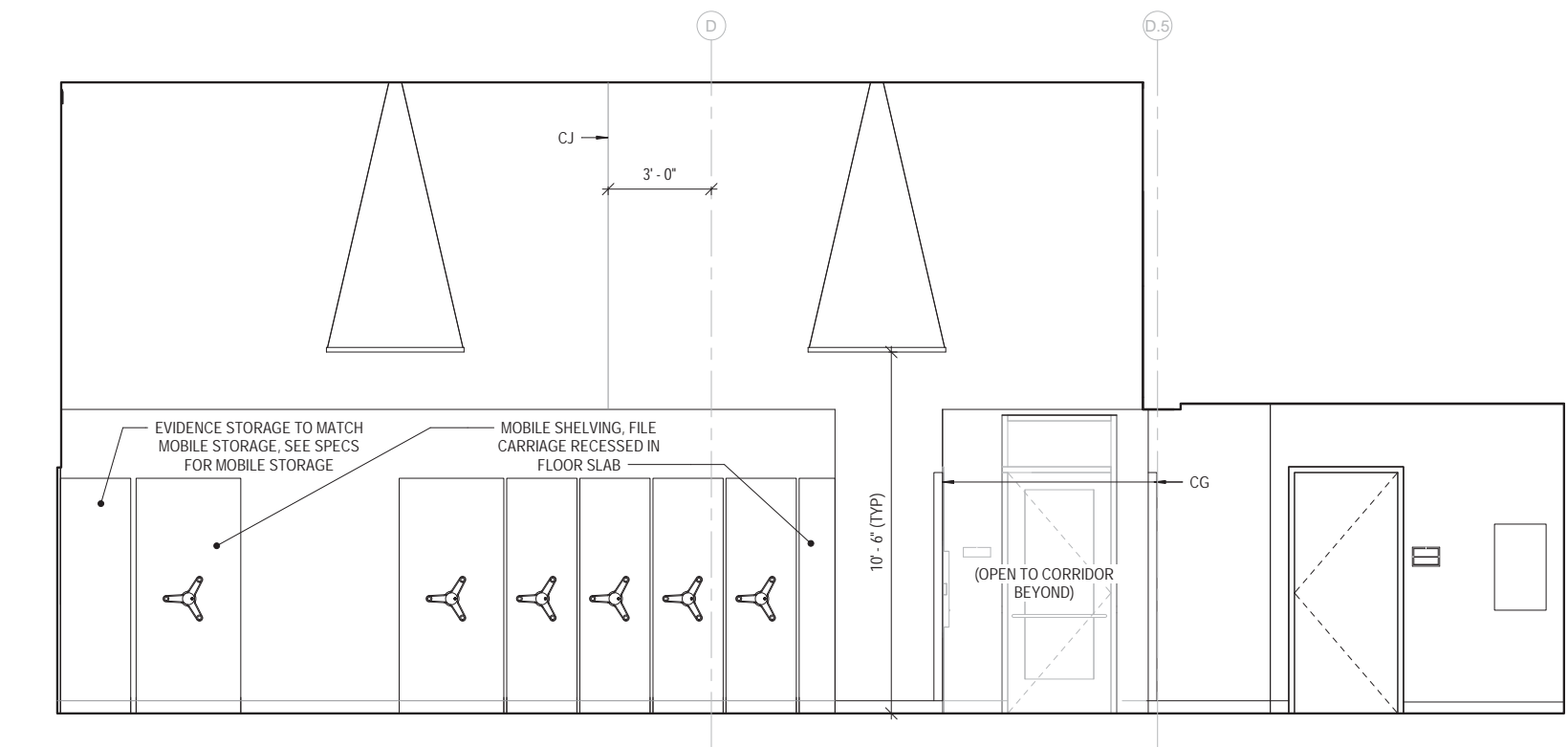
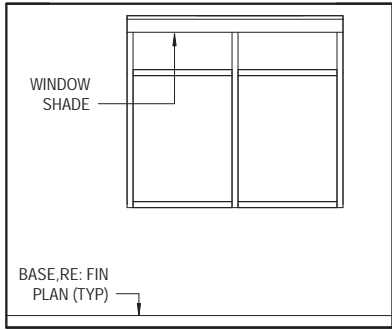
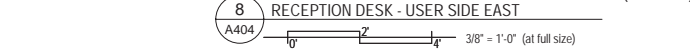
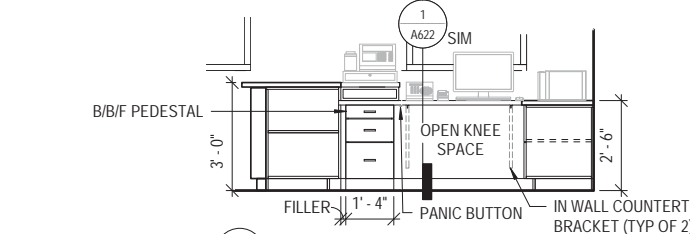
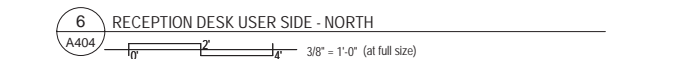
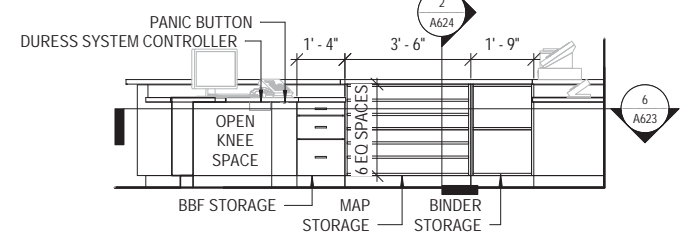
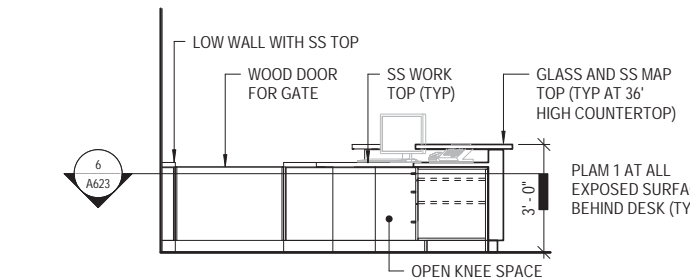
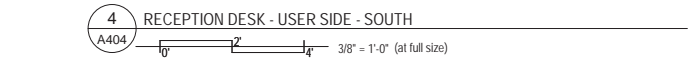
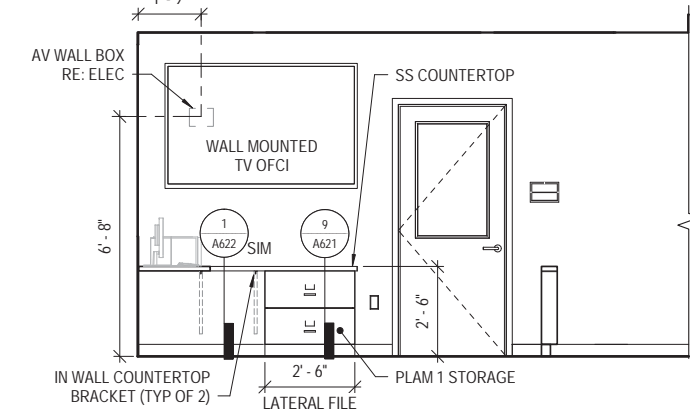
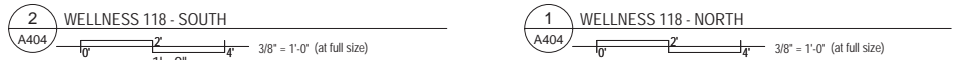
		
		
		
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ASPEN / SOPRIS RANGER DISTRICT

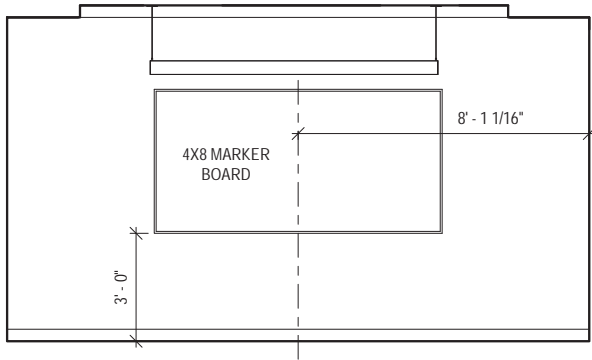
INTERIOR ELEVATIONS

100% CONSTRUCTION DOCUMENTS

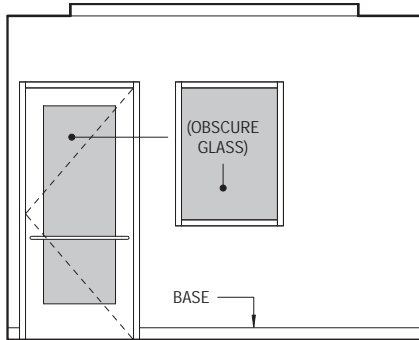
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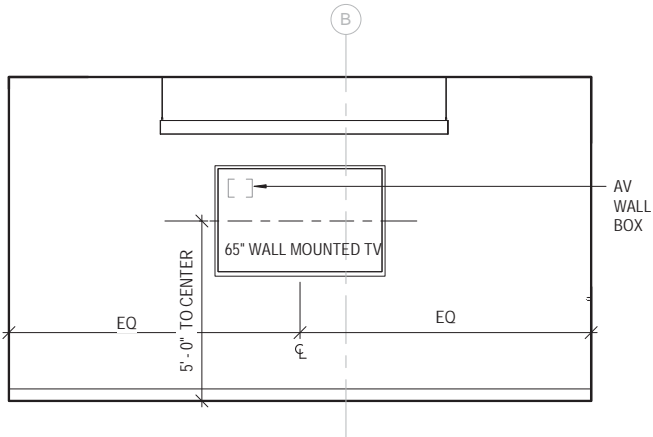
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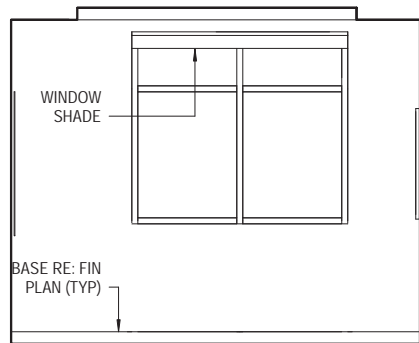
1 SMALL MEETING ROOM 115 - WEST
A405 1/8" = 1'-0" (at full size)



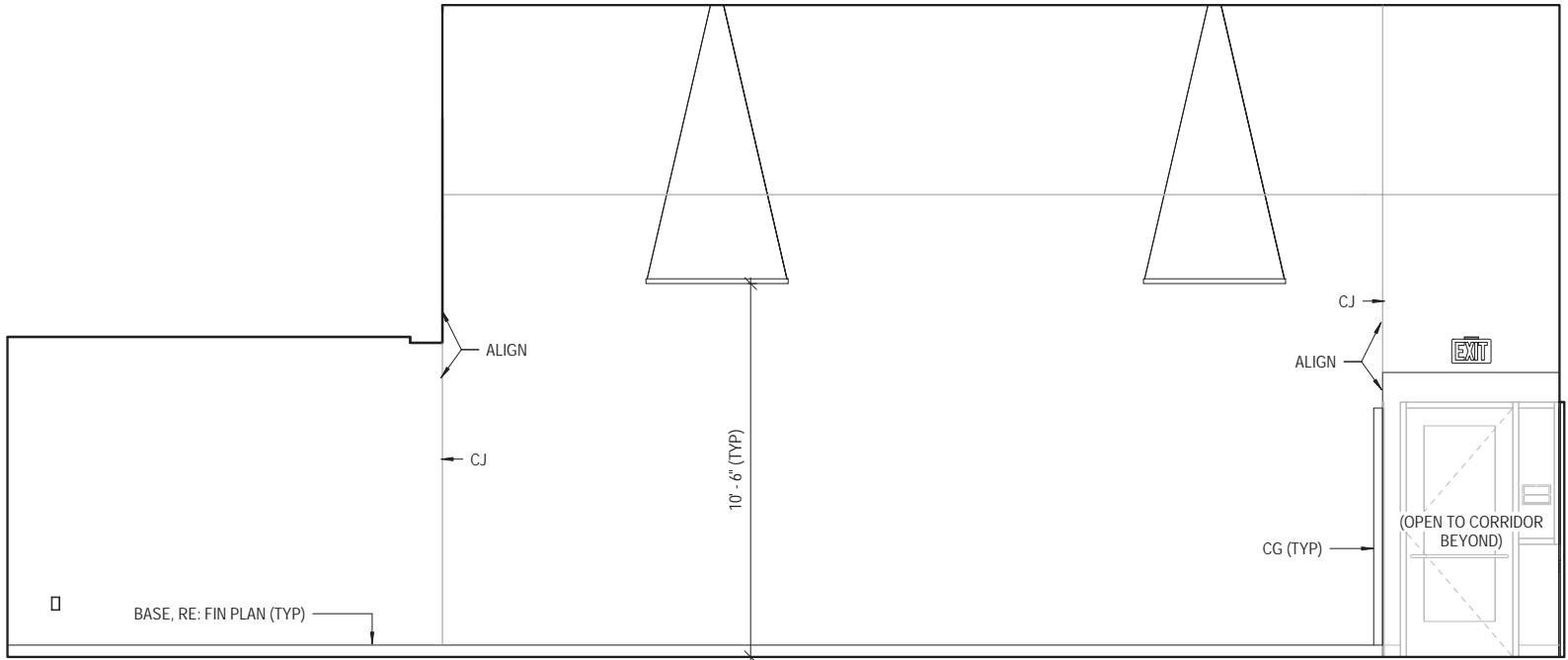
3 SMALL MEETING ROOM 115 - SOUTH
A405 1/8" = 1'-0" (at full size)



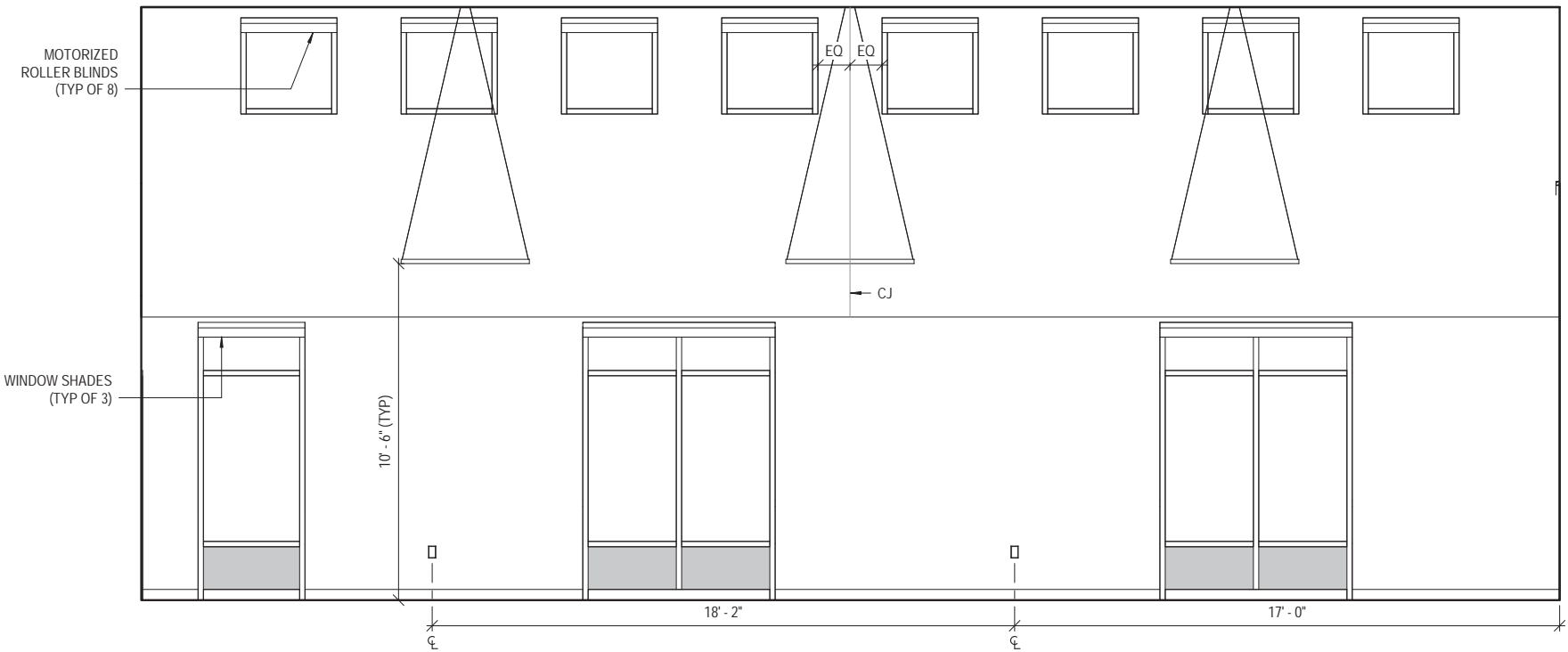
4 SMALL MEETING 115 - EAST
A405 1/8" = 1'-0" (at full size)



6 SMALL MEETING ROOM 115 - NORTH
A405 1/8" = 1'-0" (at full size)



2 WORK STATIONS 112 - WEST
A405 1/8" = 1'-0" (at full size)



5 WORK STATIONS 112 - SOUTH
A405 1/8" = 1'-0" (at full size)



UNITED STATES
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FOREST SERVICE

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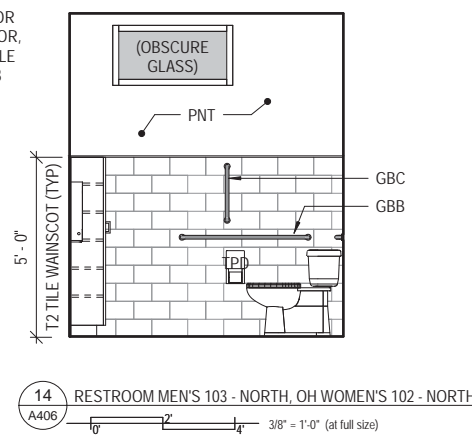
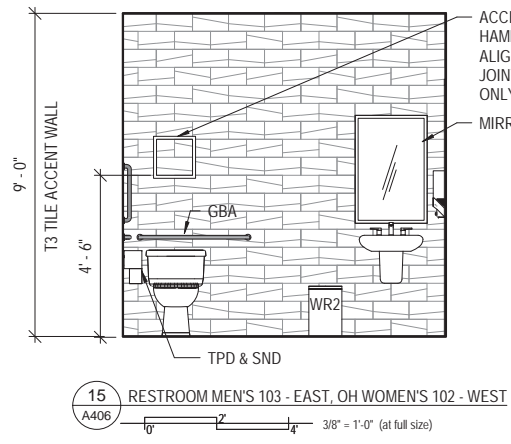
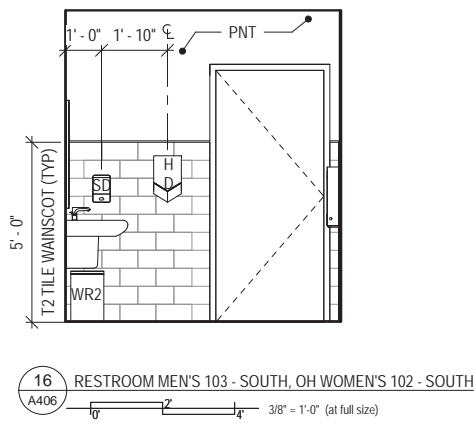
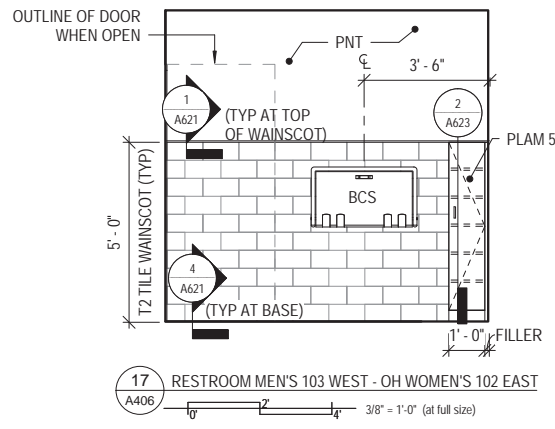
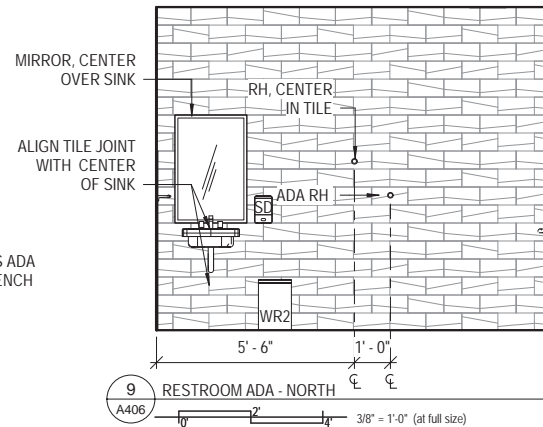
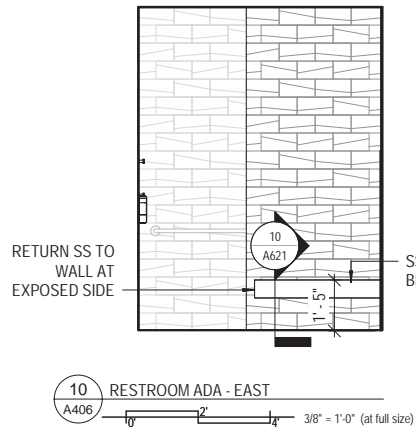
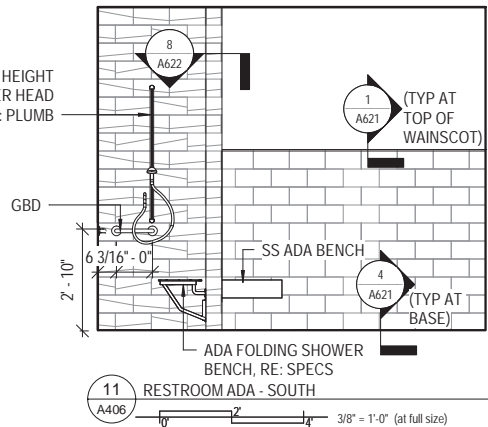
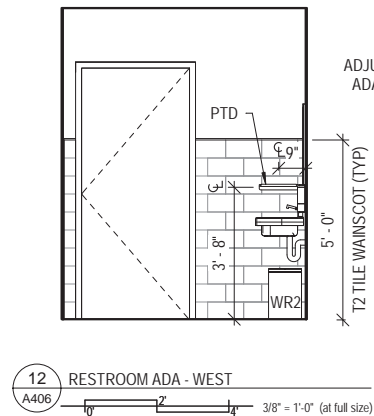
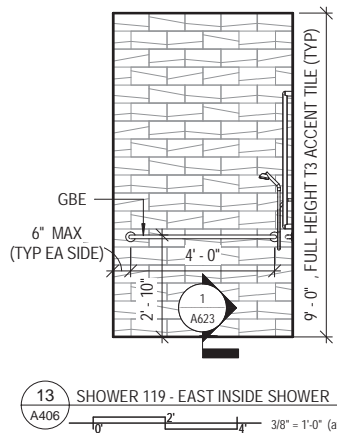
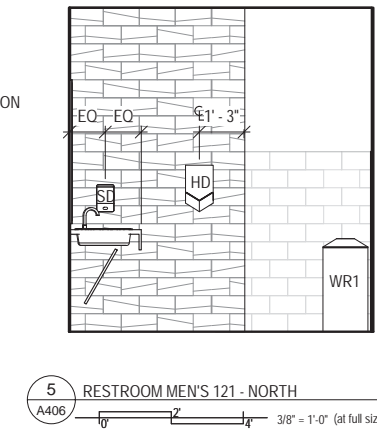
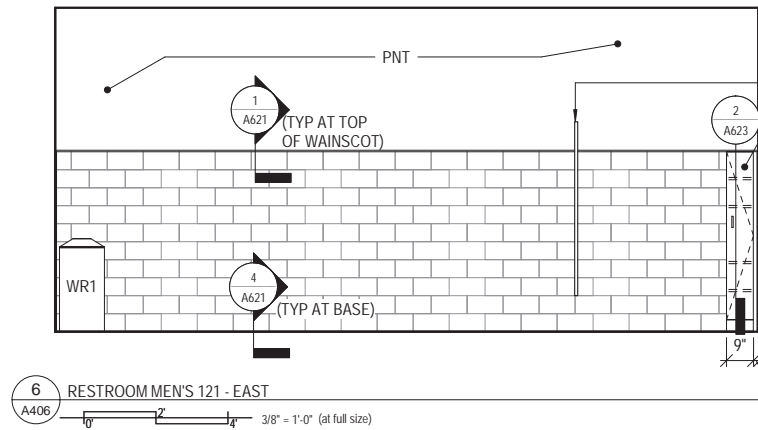
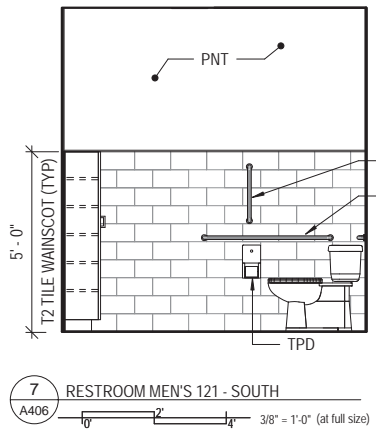
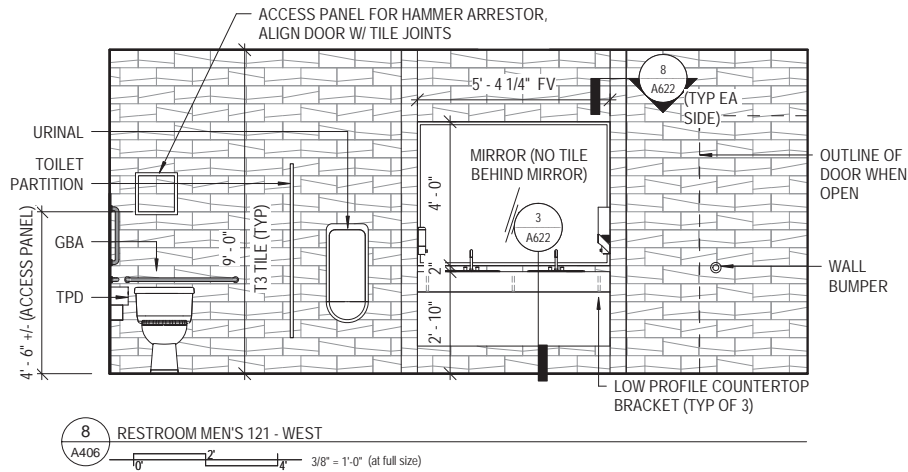
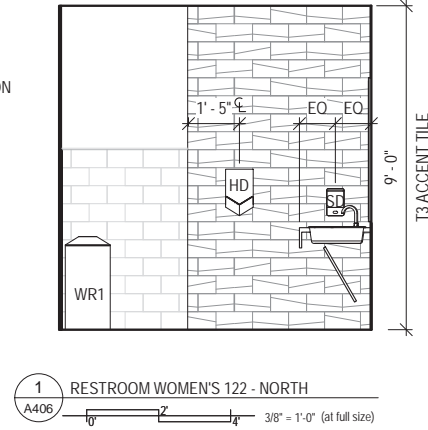
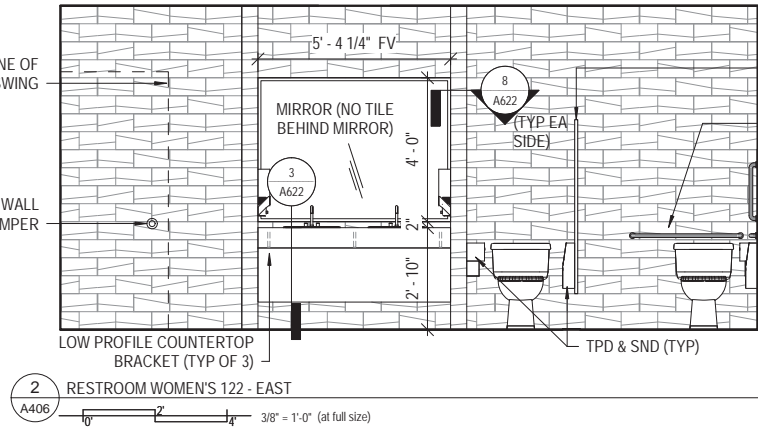
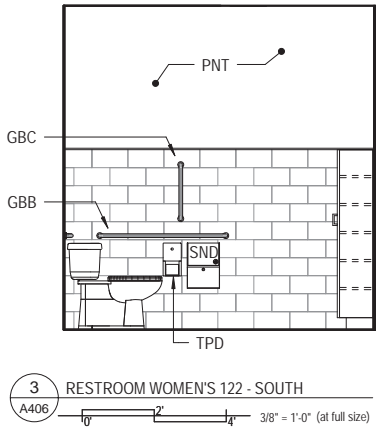
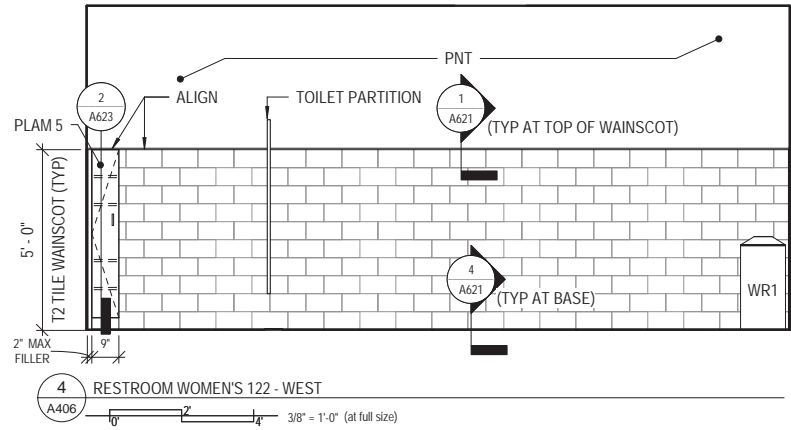
ASPEN / SOPRIS RANGER DISTRICT

DRAWING TITLE
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SEALS



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DRAWING TITLE
**INTERIOR
ELEVATIONS**

ARCHIVE
NO. 100% CONSTRUCTION DOCUMENTS

DESIGNER CSS	SUB SHEET NO.
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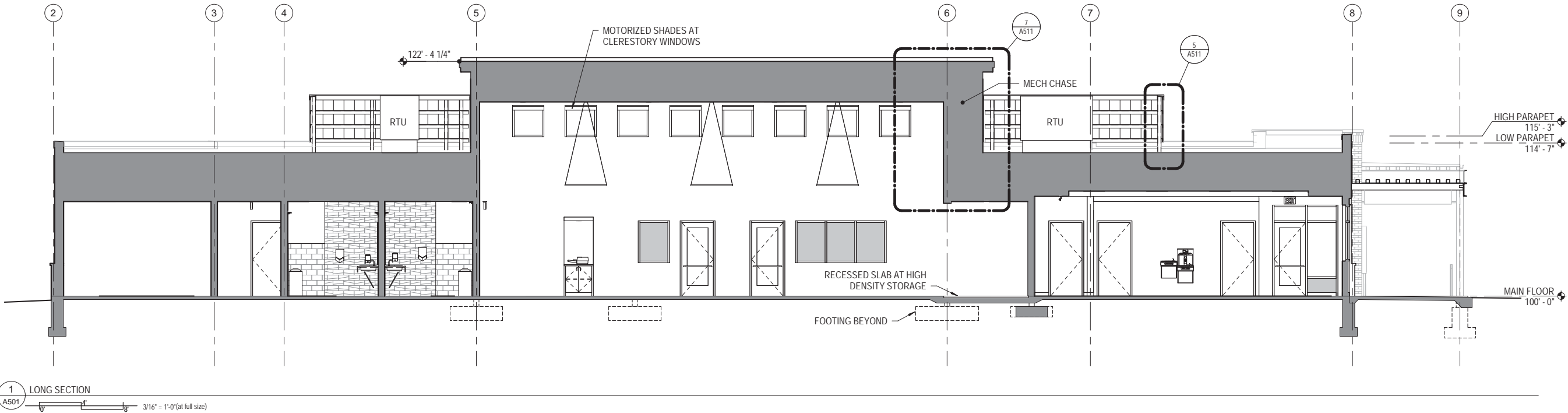
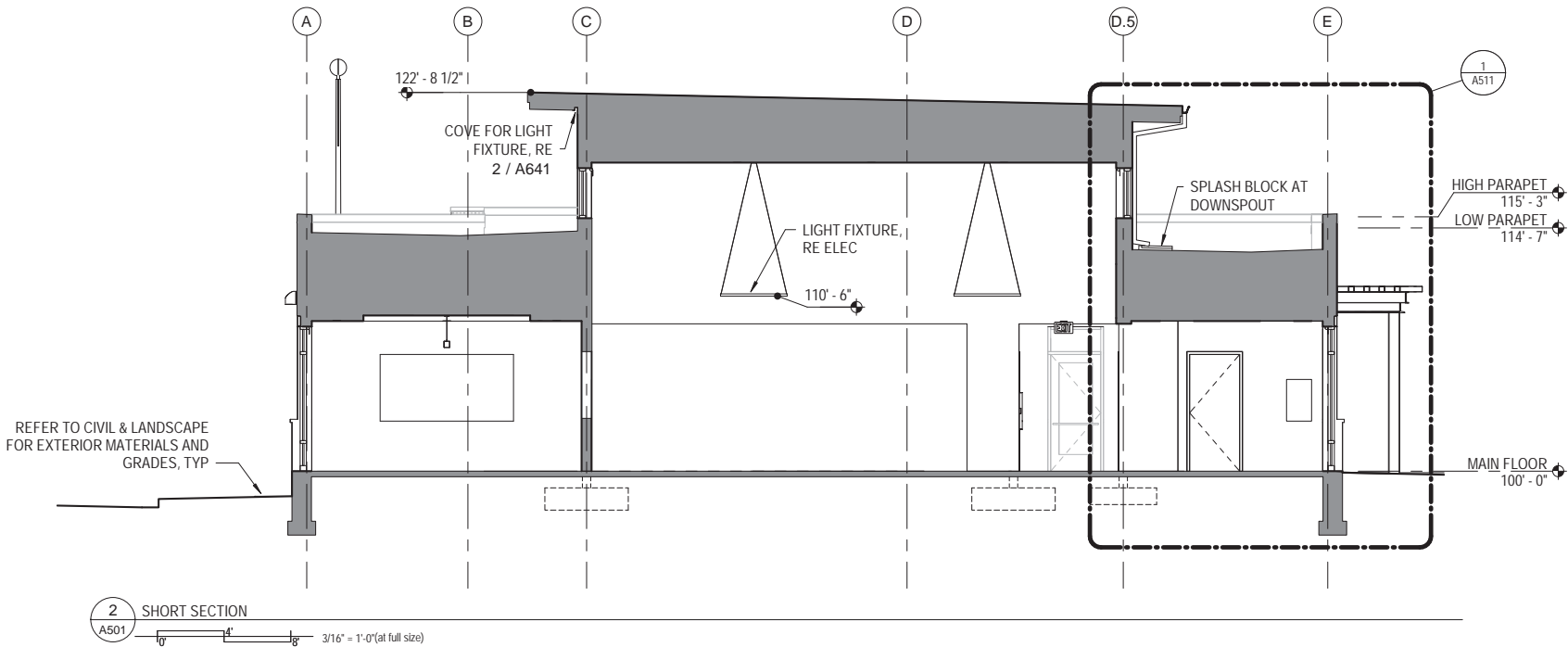
PROJECT NAME
**ASPEN-SOPRIS
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OFFICE**

ASPEN / SOPRIS RANGER DISTRICT

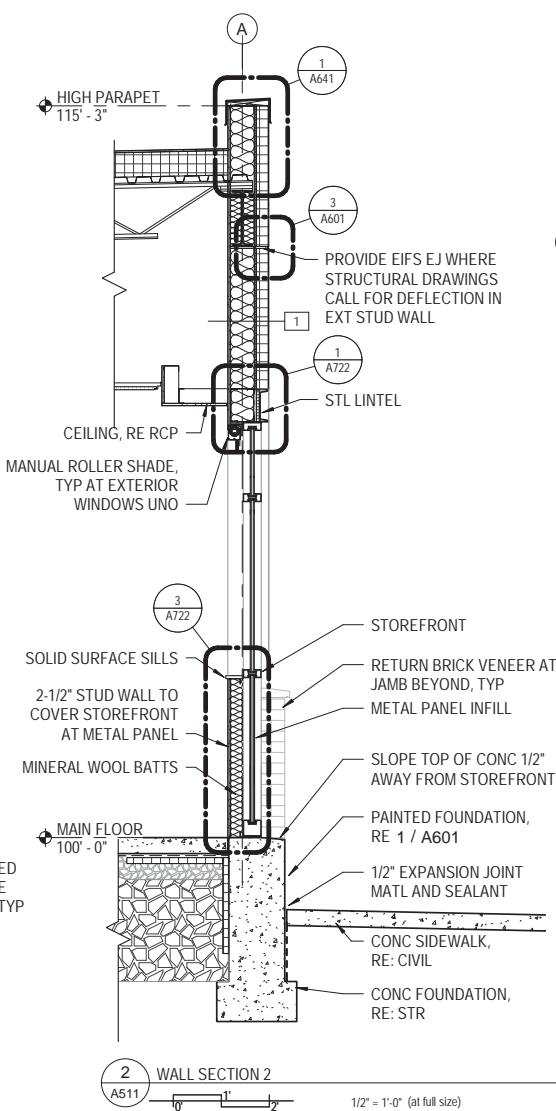
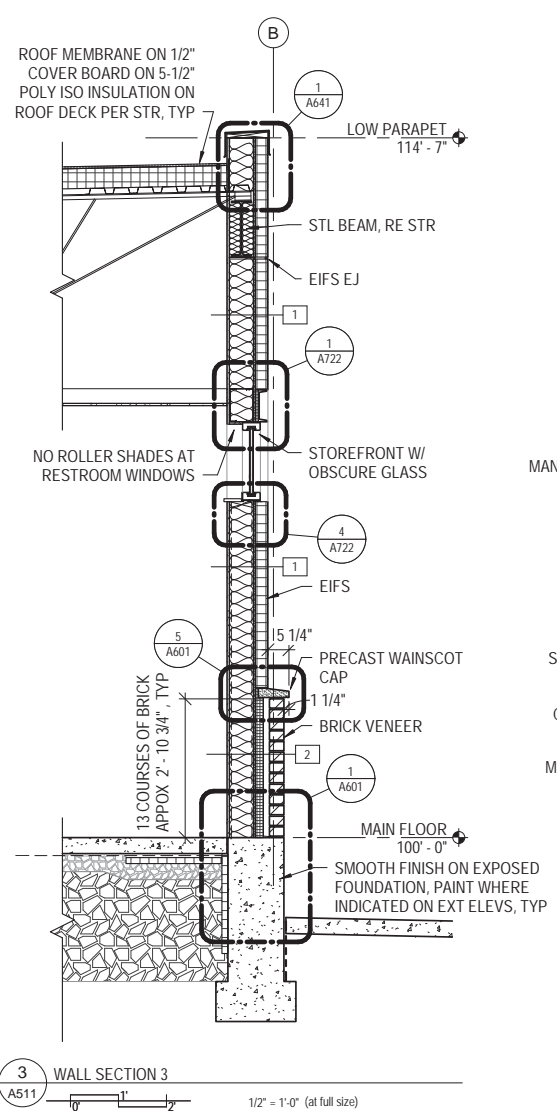
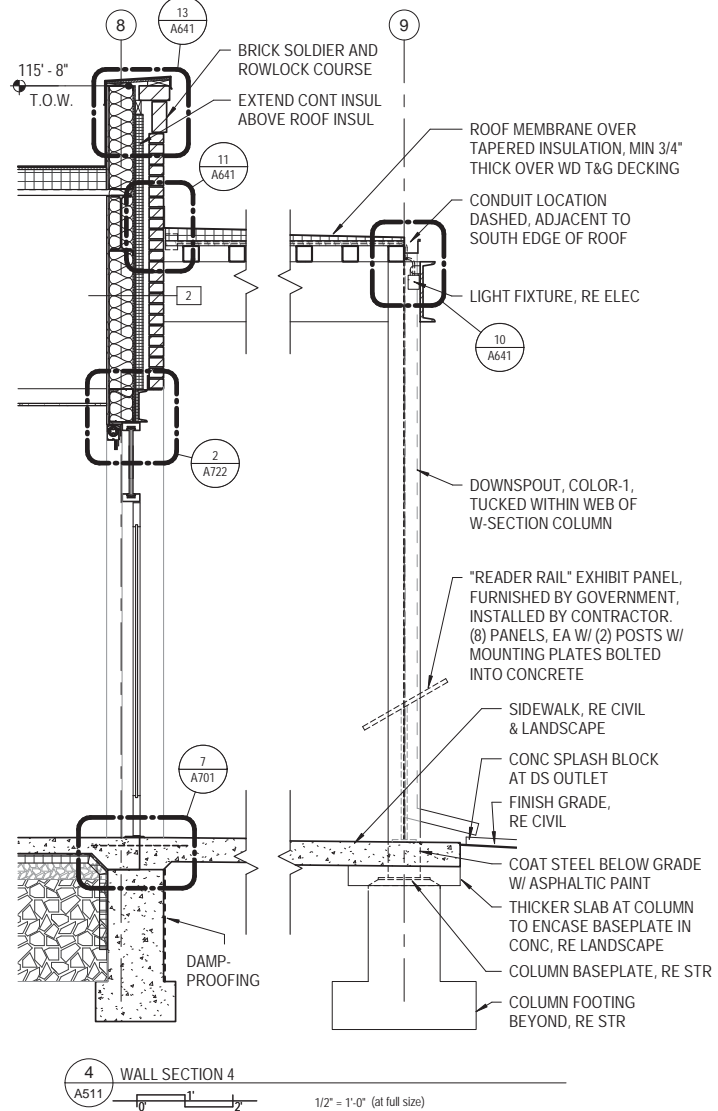
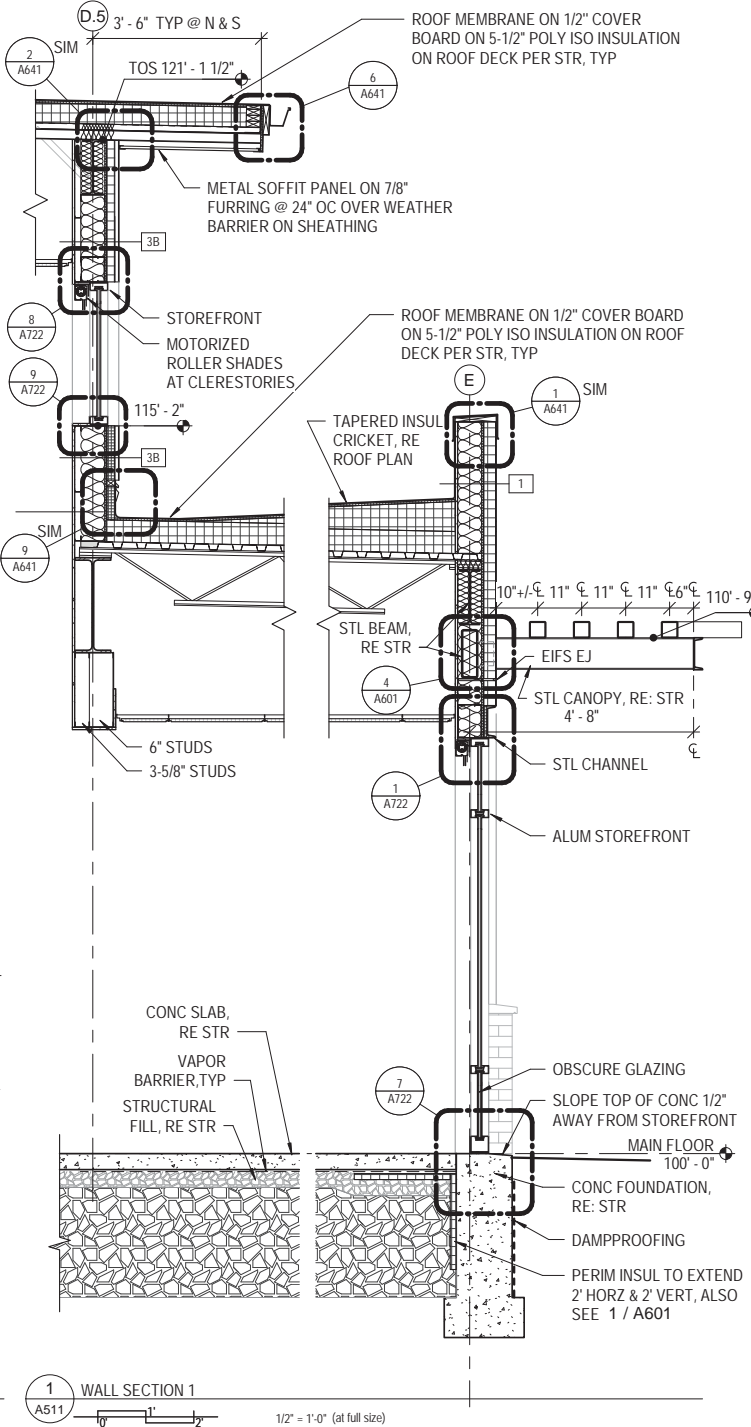
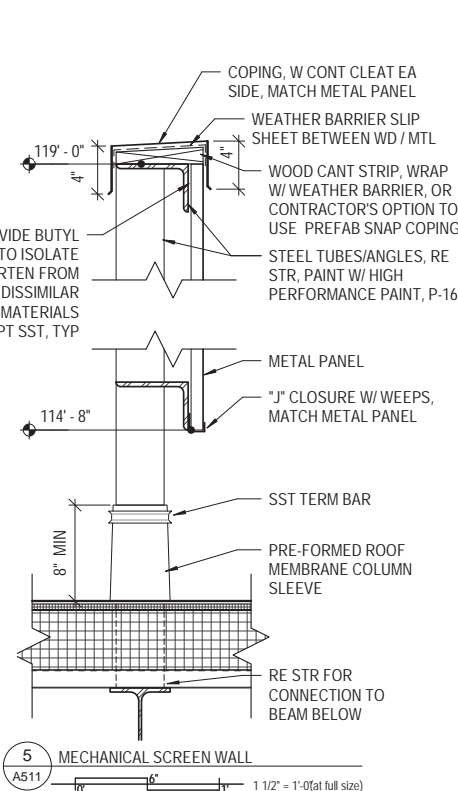
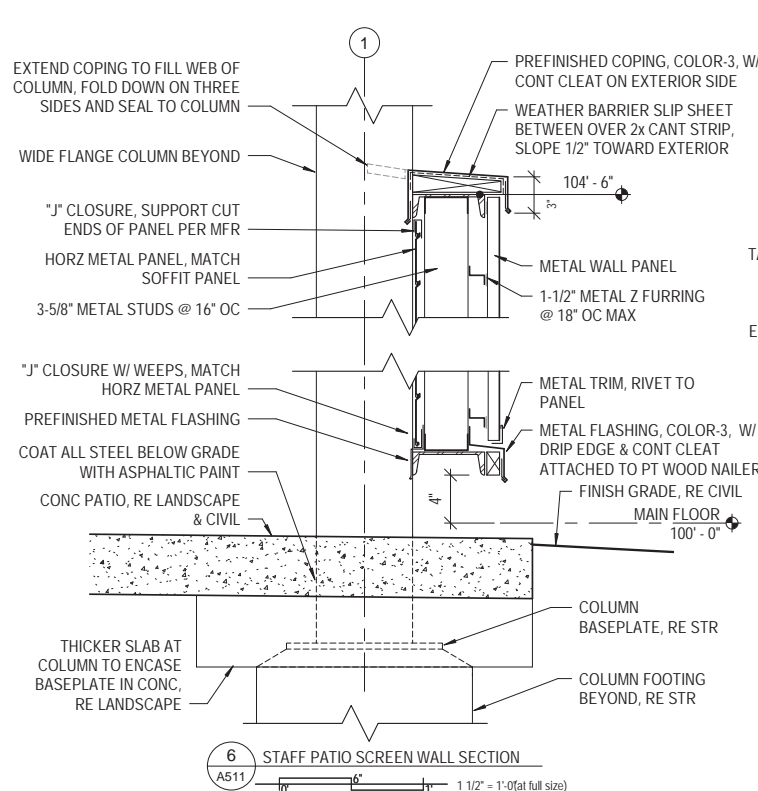
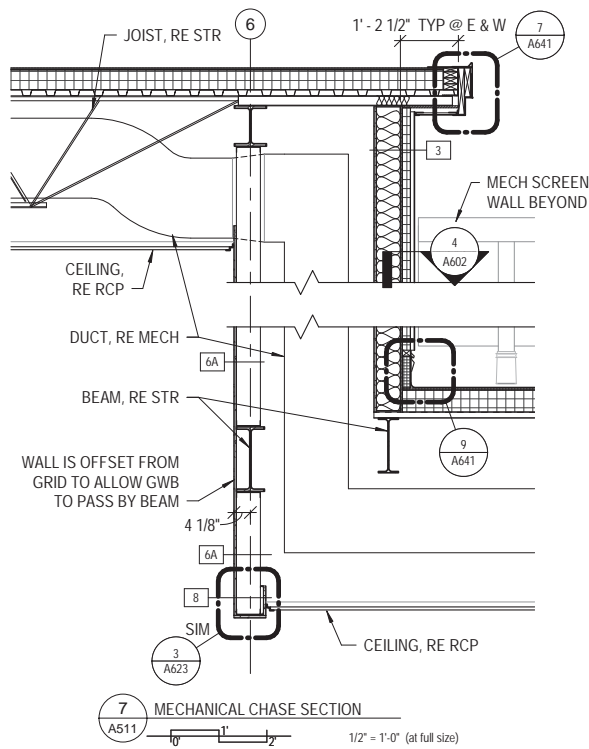
DRAWING TITLE
**BUILDING
SECTIONS**

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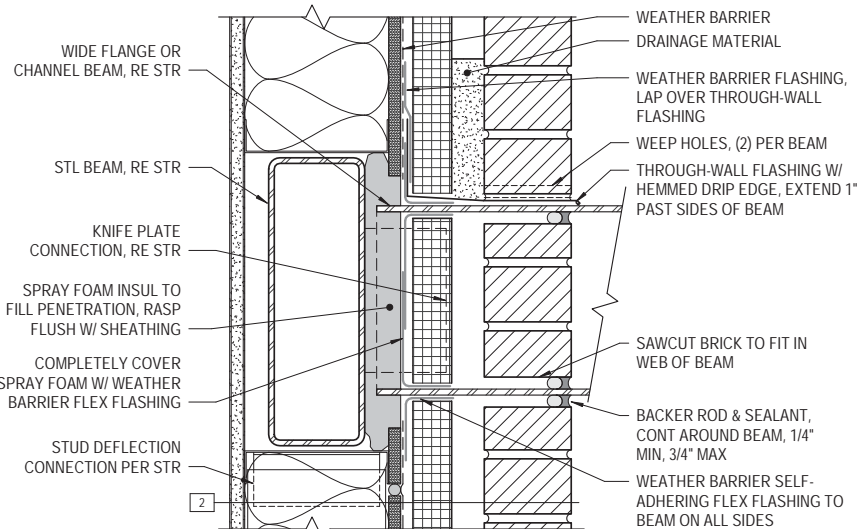
ASPEN / SOPRIS RANGER DISTRICT

DRAWING TITLE
WALL SECTIONS

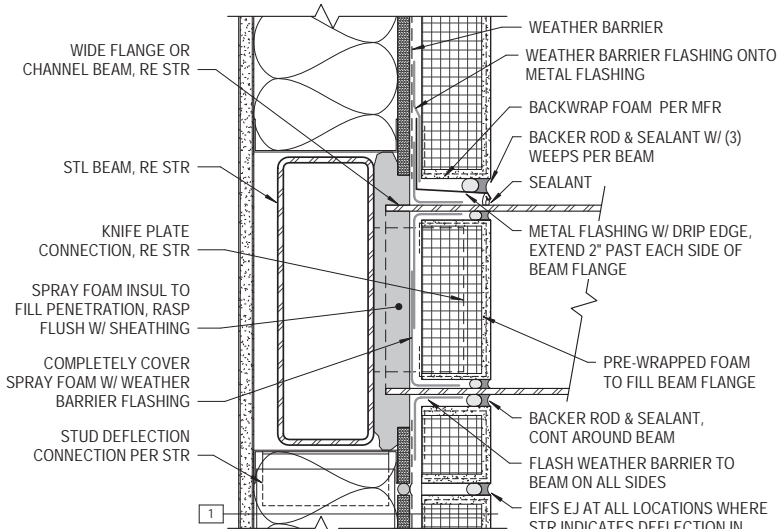
ARCHIVE
NO. 100% CONSTRUCTION DOCUMENTS

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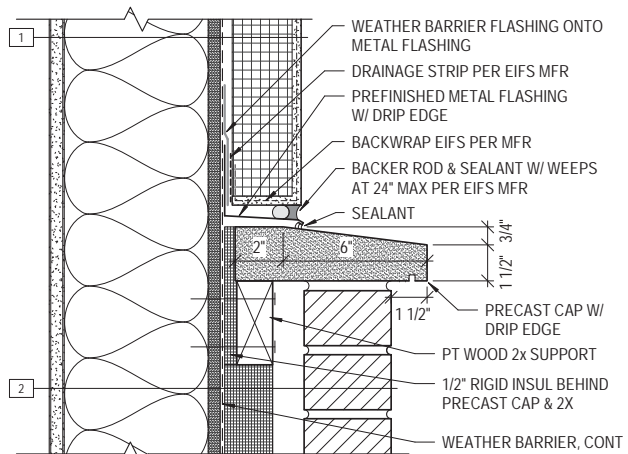
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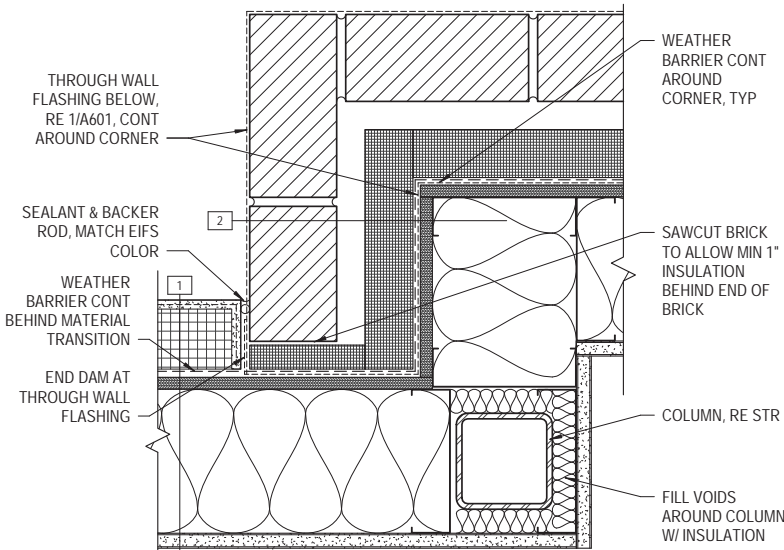
7 BEAM PENETRATION AT BRICK
A601 3" = 1'-0" (at full size)



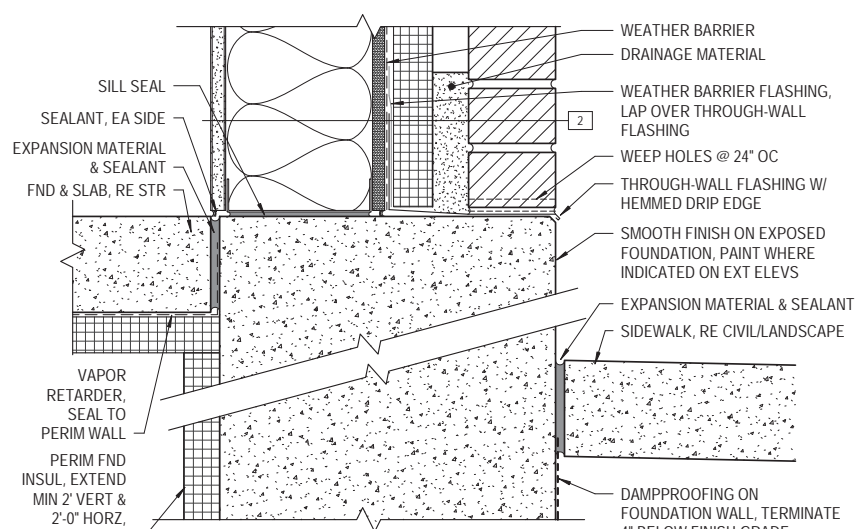
4 BEAM PENETRATION AT EIFS
A601 3" = 1'-0" (at full size)



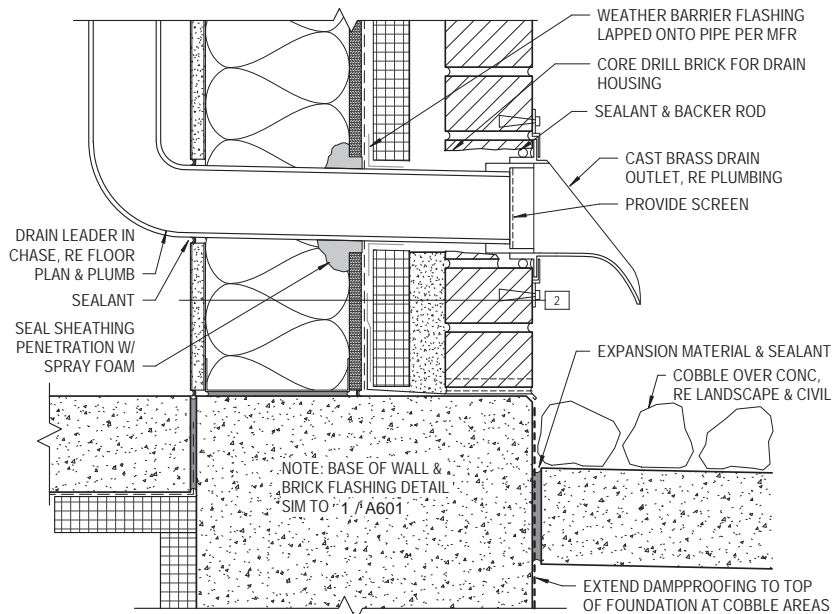
5 WAINSCOTT CAP AT BRICK & EIFS
A601 3" = 1'-0" (at full size)



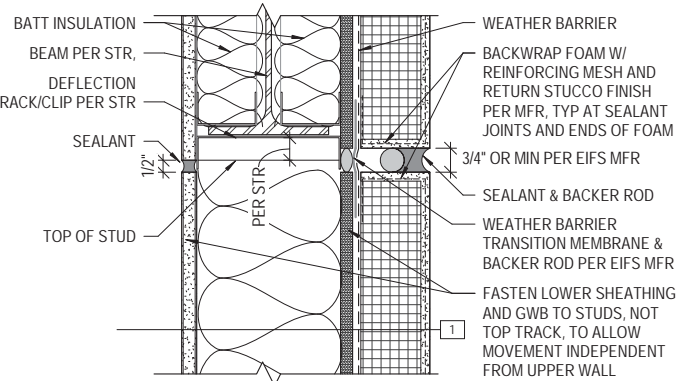
6 BRICK TO EIFS TRANSITION-PLAN DETAIL
A601 3" = 1'-0" (at full size)



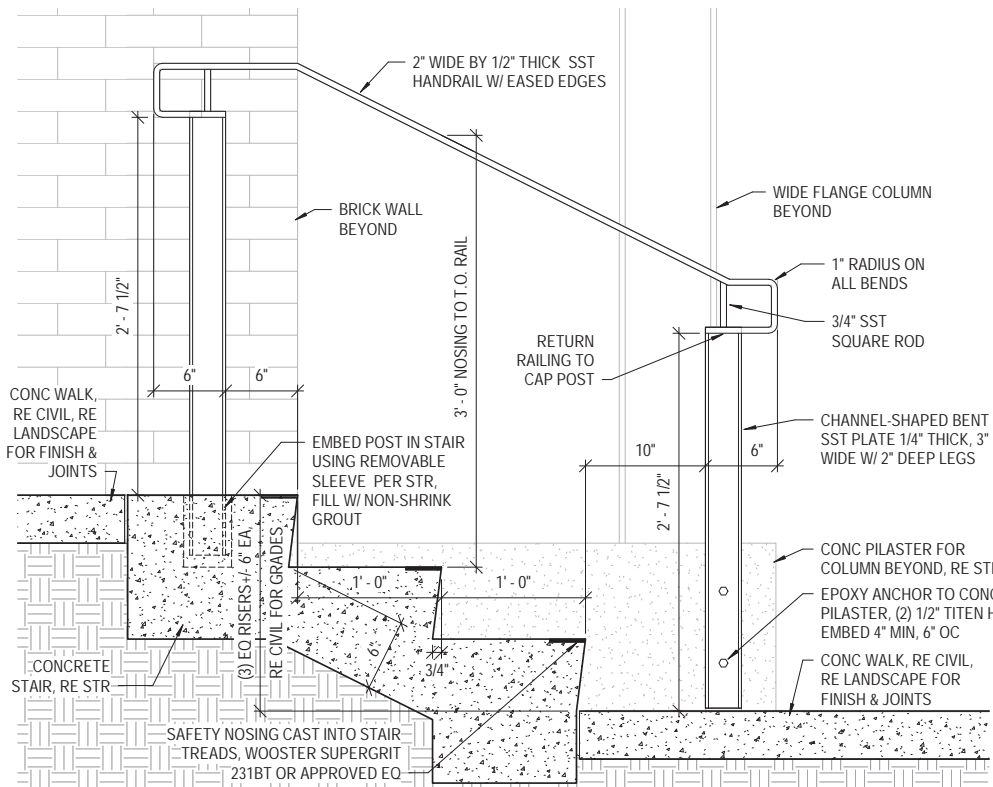
1 BASE OF WALL DETAIL
A601 3" = 1'-0" (at full size)



2 ROOF / OVERFLOW DRAIN OUTLET
A601 3" = 1'-0" (at full size)



3 EIFS EXPANSION JOINT AT DEFLECTION TRACK
A601 3" = 1'-0" (at full size)



9 STAIR/HANDRAIL SECTION
A601 1 1/2" = 1'-0" (at full size)



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**ARCHITECTURAL
DETAILS**

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CHECKED

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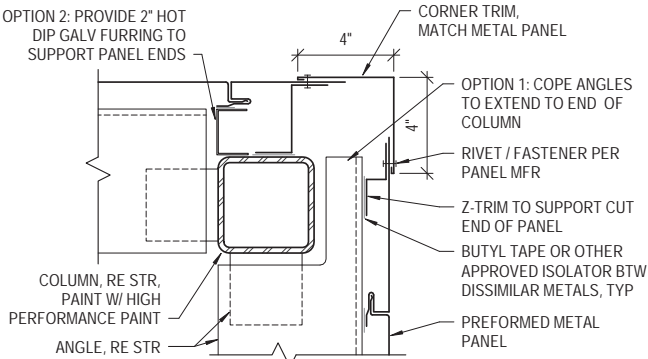
DATE
7/9/2020

SUB SHEET
NO.

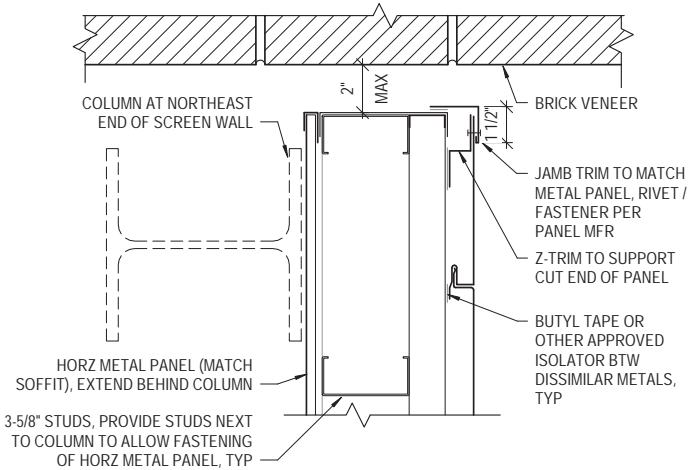
A601

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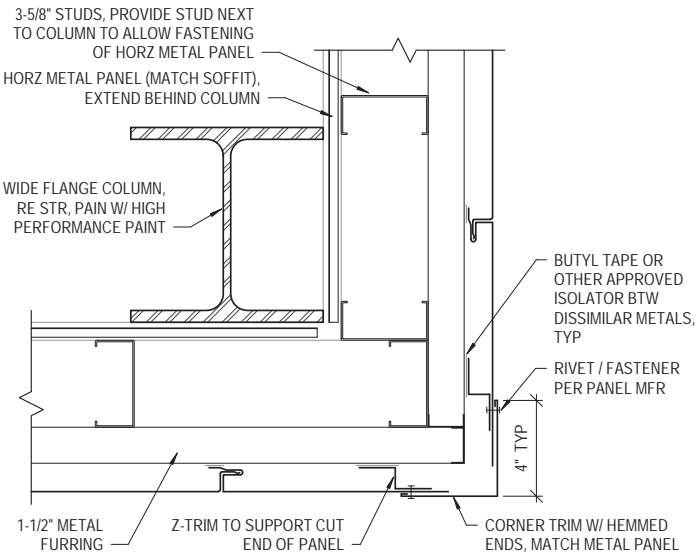
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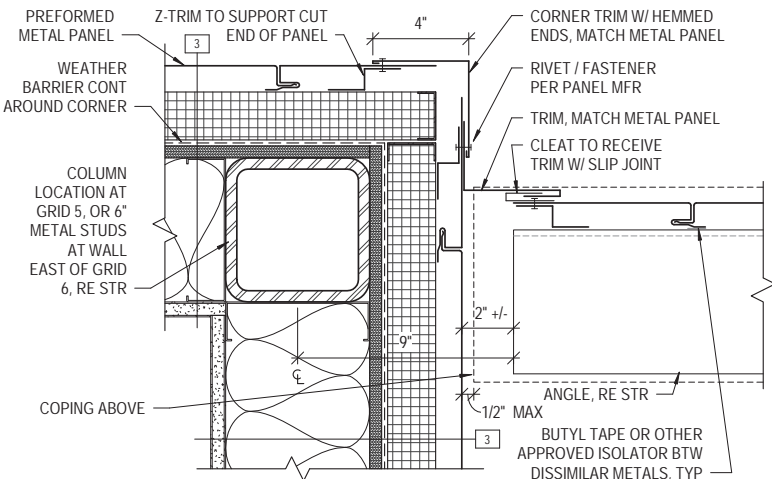
4 METAL PANEL CORNER AT MECH SCREEN WALL
A602 3" = 1'-0" (at full size)



1 PATIO SCREEN WALL END DETAIL
A602 3" = 1'-0" (at full size)



2 PATIO SCREEN WALL CORNER PLAN DETAIL
A602 3" = 1'-0" (at full size)



3 METAL PANEL CORNER AT WALL TYPE 3 & MECH SCREEN WALL
A602 3" = 1'-0" (at full size)



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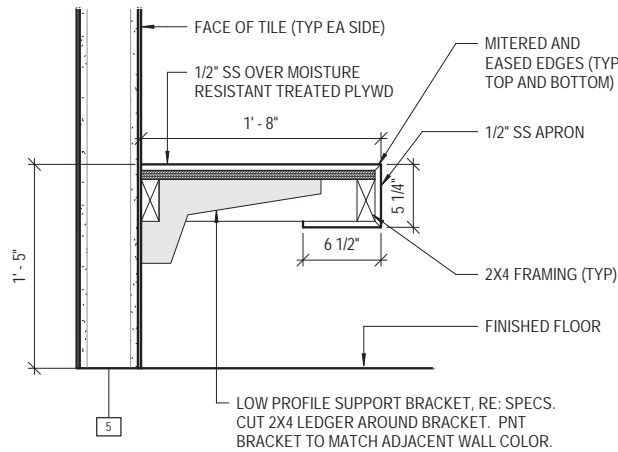
ASPEN / SOPRIS RANGER DISTRICT

DRAWING TITLE
**ARCHITECTURAL
DETAILS**

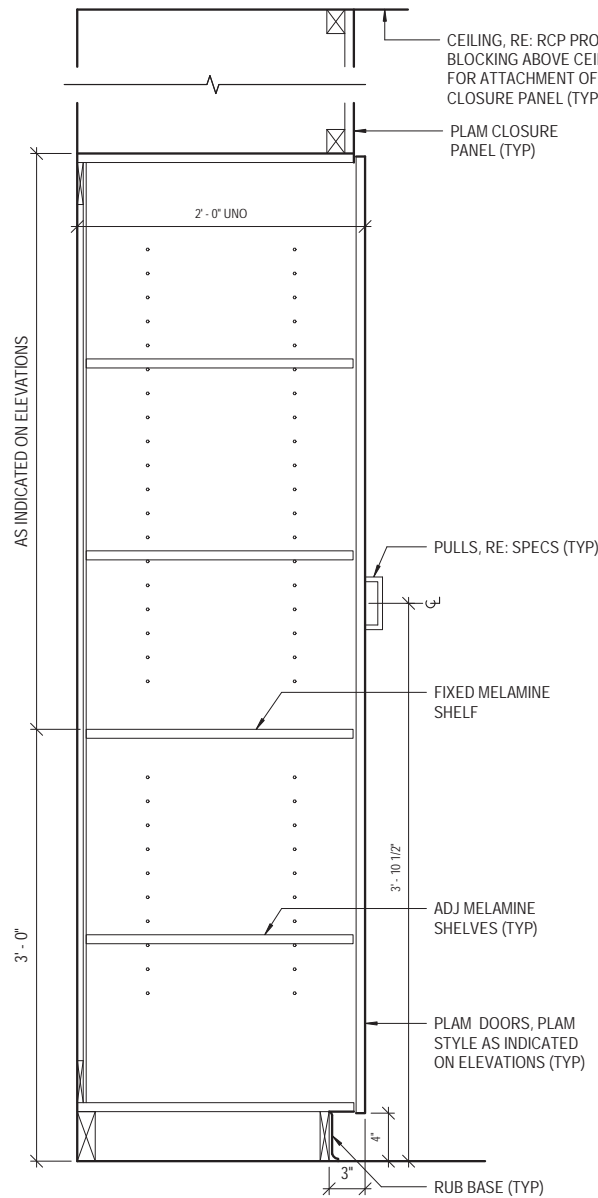
ARCHIVE
NO. 100% CONSTRUCTION DOCUMENTS

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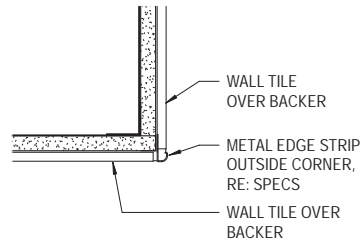
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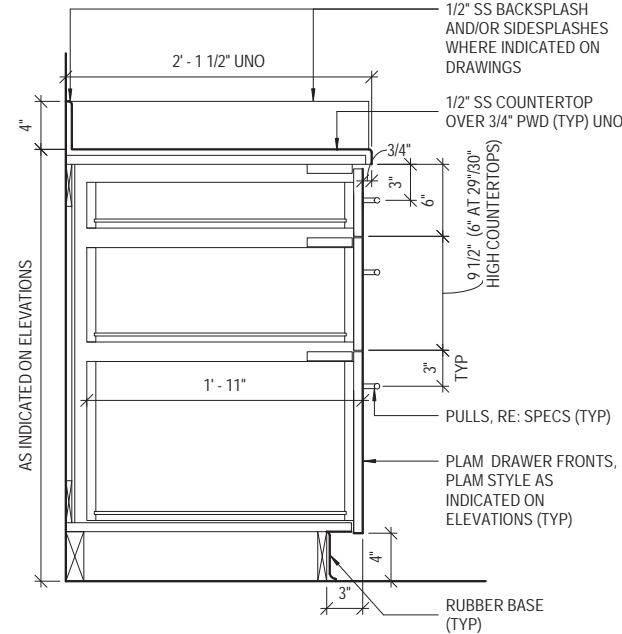
10 SHOWER BENCH SECTION
A621 6' 1 1/2" = 1'-0" (at full size)



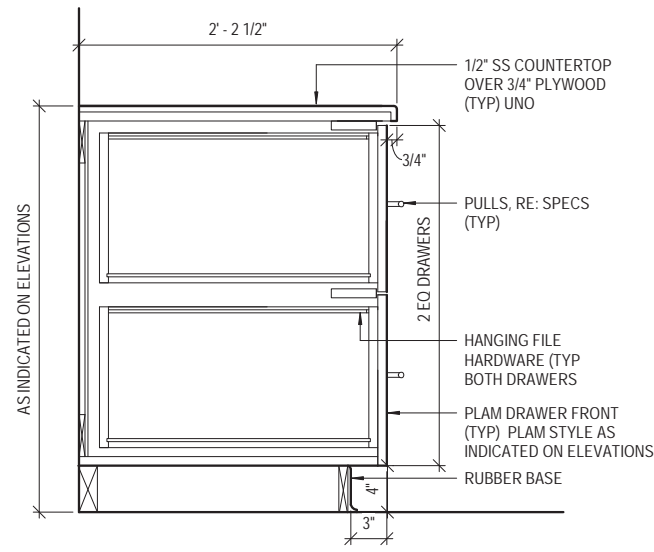
11 CASEWORK SECTION - TALL PANTRY CABINET
A621 6' 1 1/2" = 1'-0" (at full size)



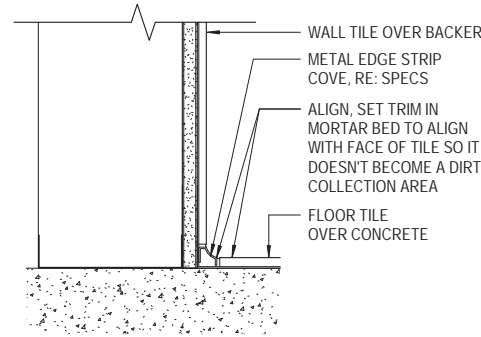
7 TILE OUTSIDE CORNER DETAIL
A621 3' = 1'-0" (at full size)



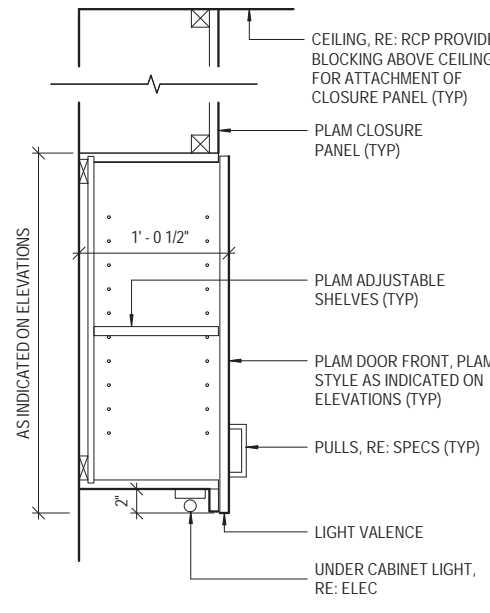
8 CASEWORK SECTION - BASE - DRAWERS (3)
A621 6' 1 1/2" = 1'-0" (at full size)



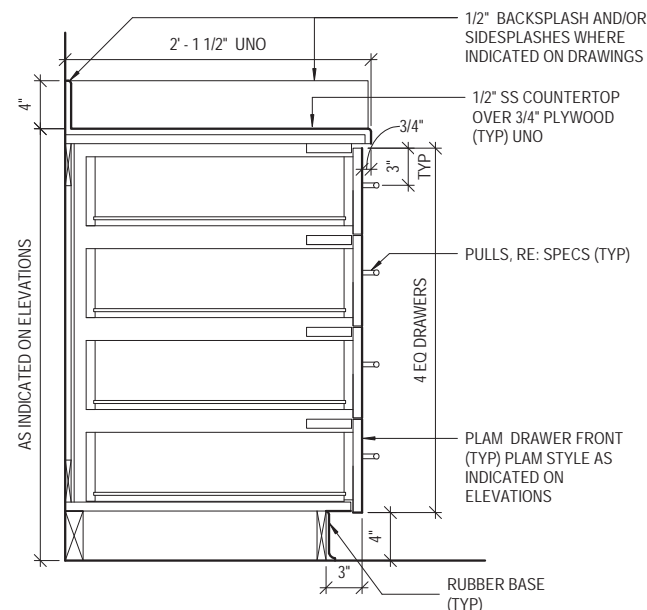
9 CASEWORK SECTION - LATERAL FILE
A621 6' 1 1/2" = 1'-0" (at full size)



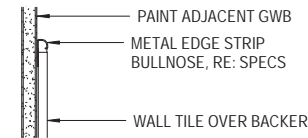
4 TILE BASE DETAIL
A621 3' = 1'-0" (at full size)



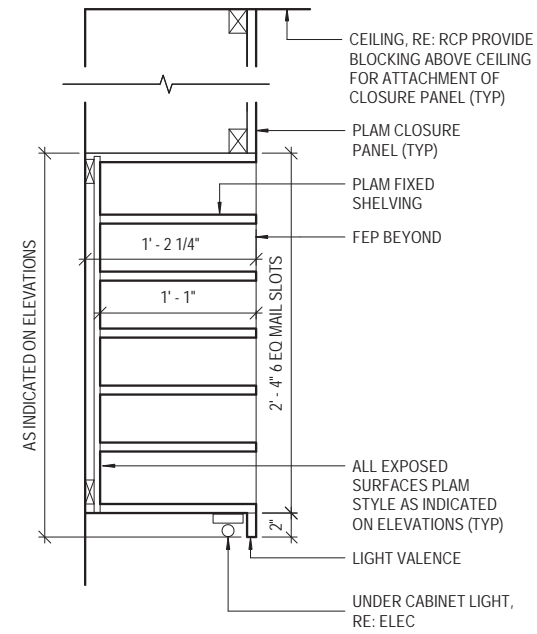
5 CASEWORK SECTION - UPPER - DOORS
A621 6' 1 1/2" = 1'-0" (at full size)



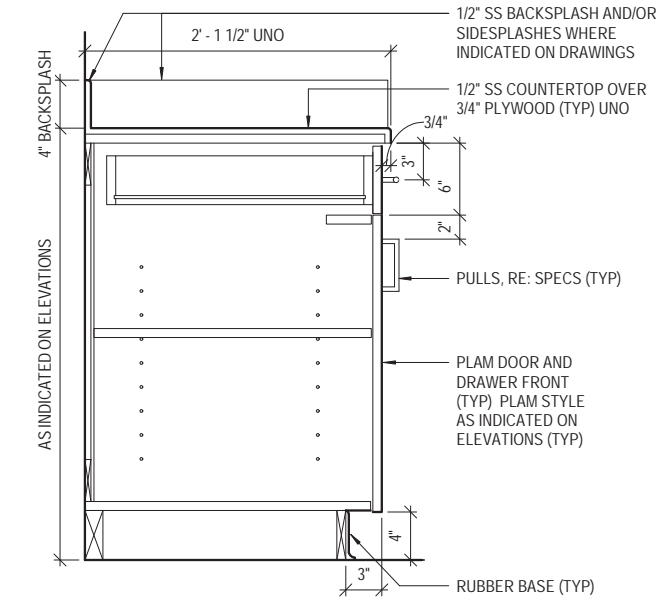
6 CASEWORK SECTION - BASE - DRAWERS (4)
A621 6' 1 1/2" = 1'-0" (at full size)



1 TOP OF TILE WAINGSCOT
A621 3' = 1'-0" (at full size)



2 CASEWORK SECTION - UPPER - MAIL SLOTS
A621 6' 1 1/2" = 1'-0" (at full size)



3 CASEWORK SECTION - BASE - DOORS & DRAWERS
A621 6' 1 1/2" = 1'-0" (at full size)



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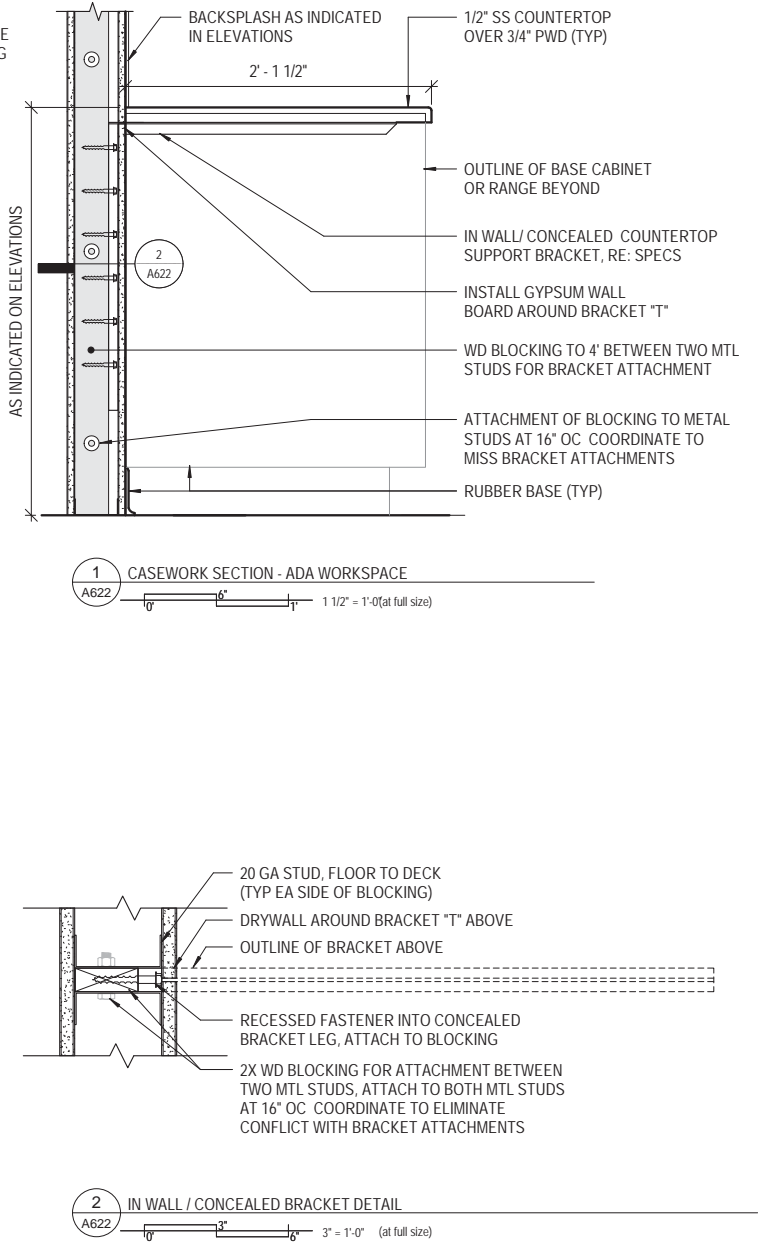
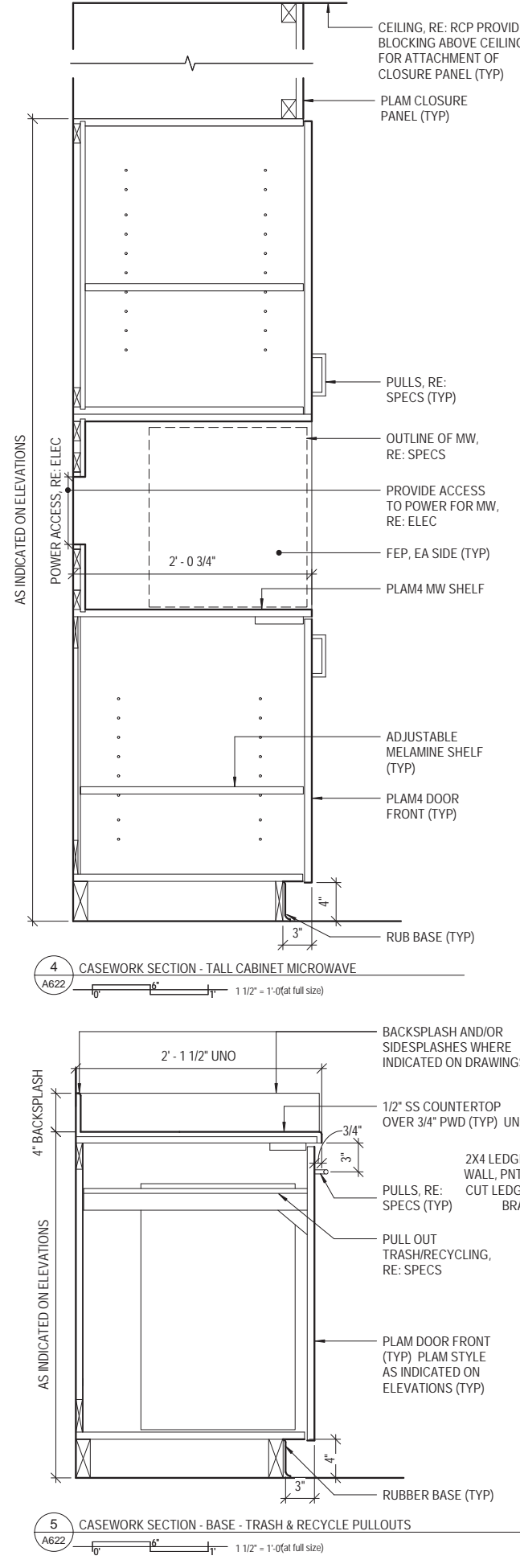
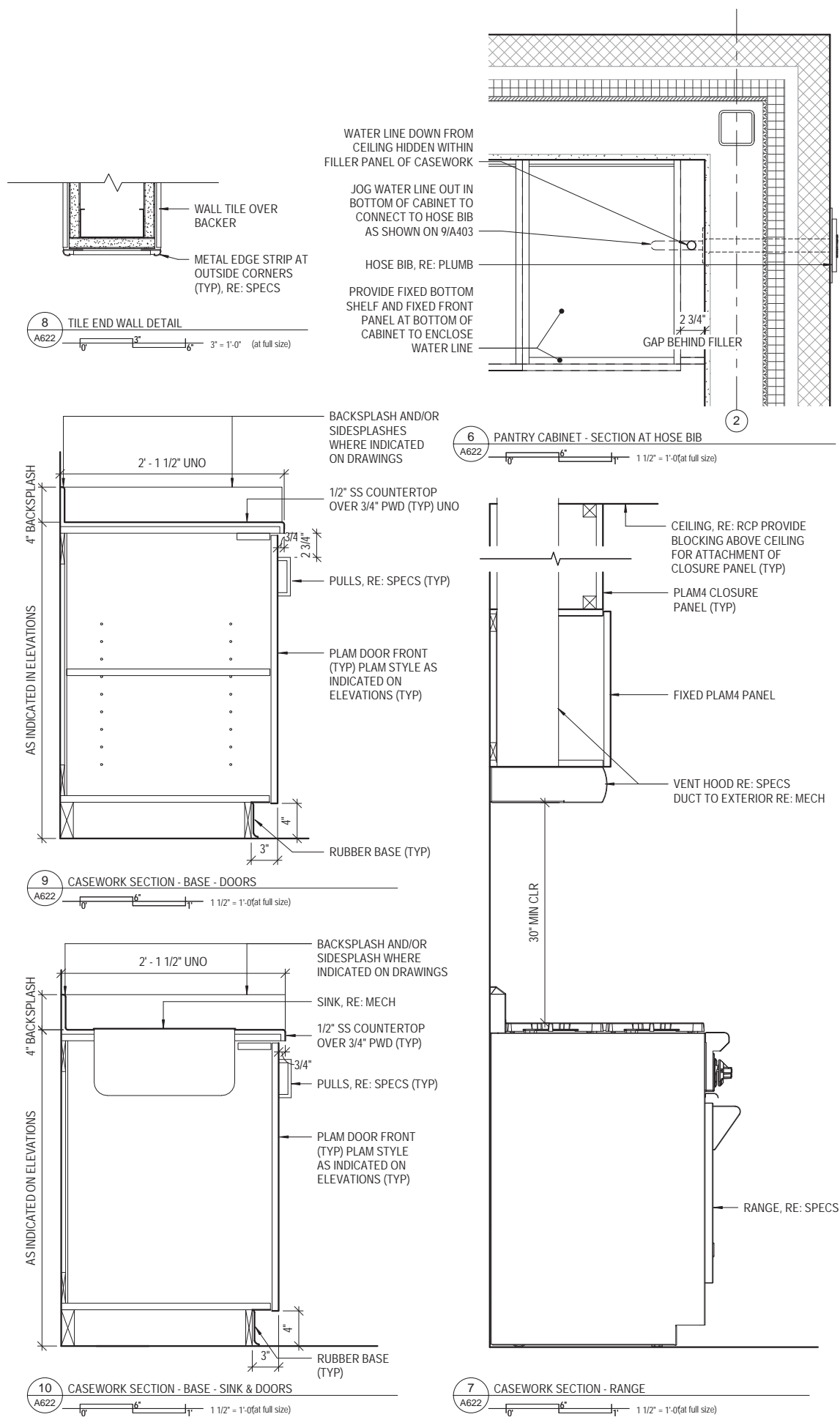
ASPEN / SOPRIS RANGER DISTRICT

DRAWING TITLE
**CASEWORK &
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DRAWING TITLE
**CASEWORK &
INTERIOR DETAILS**

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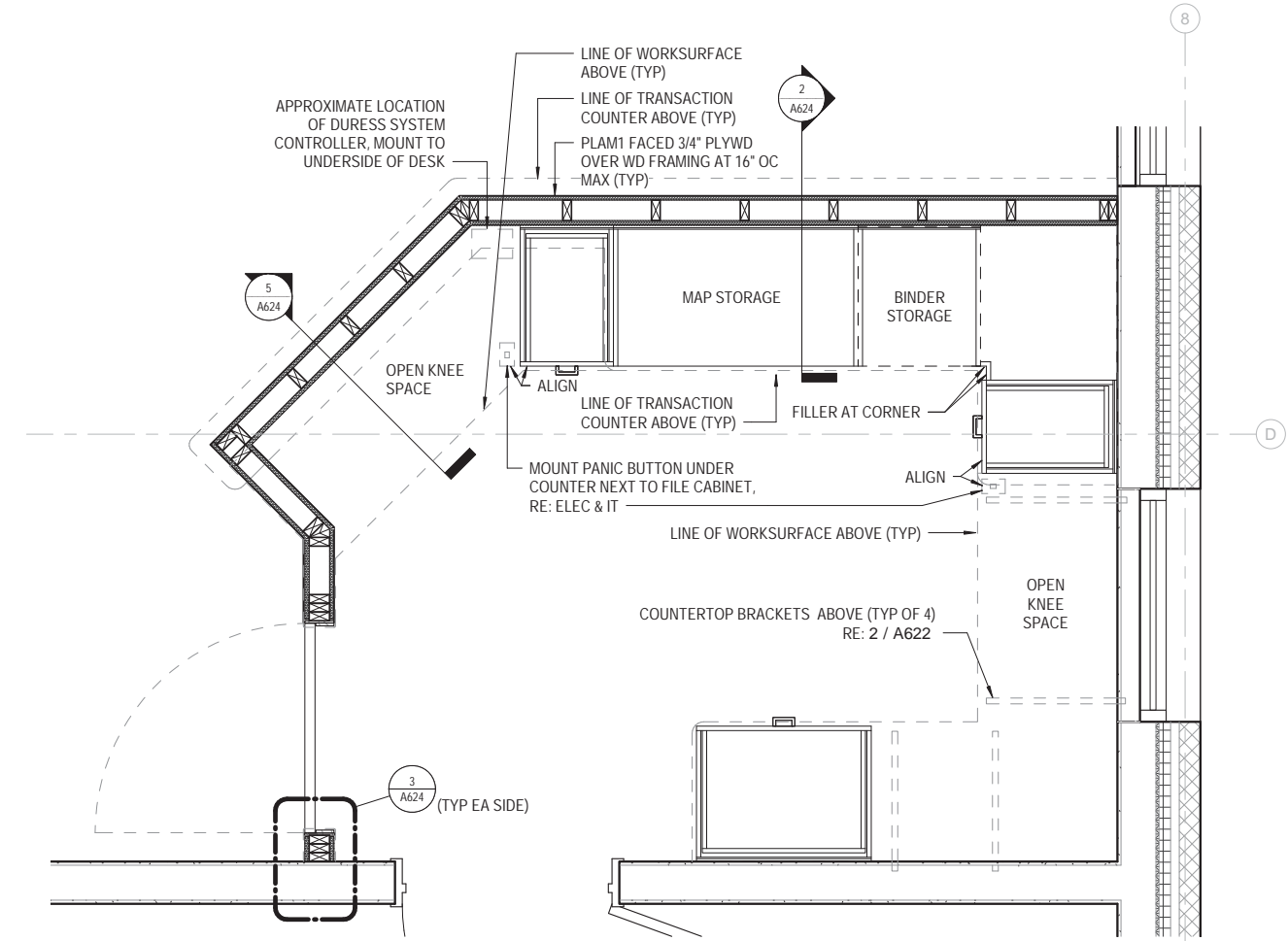
PROJECT NAME
**ASPEN-SOPRIS
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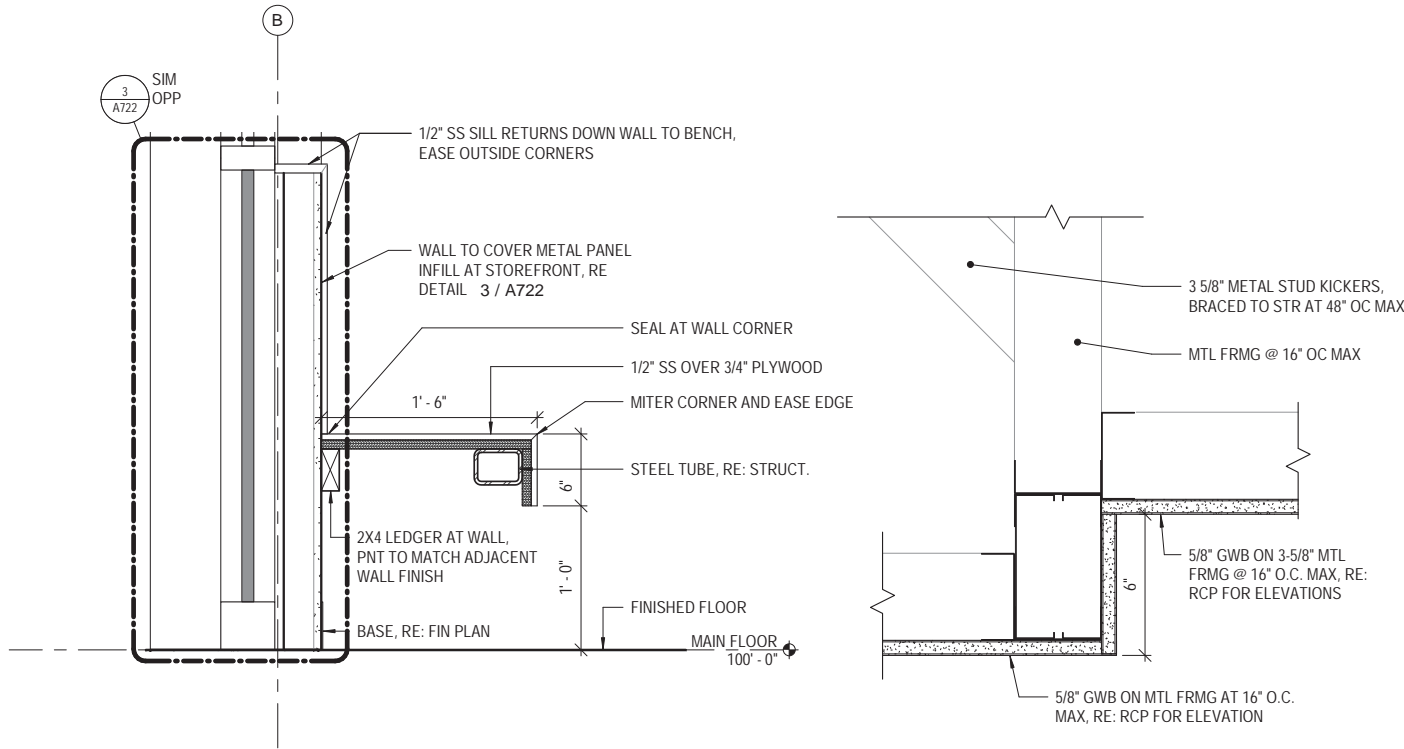
DRAWING TITLE
**CASEWORK &
INTERIOR DETAILS**

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NO. 100% CONSTRUCTION DOCUMENTS

DESIGNER CSS	SUB SHEET NO.
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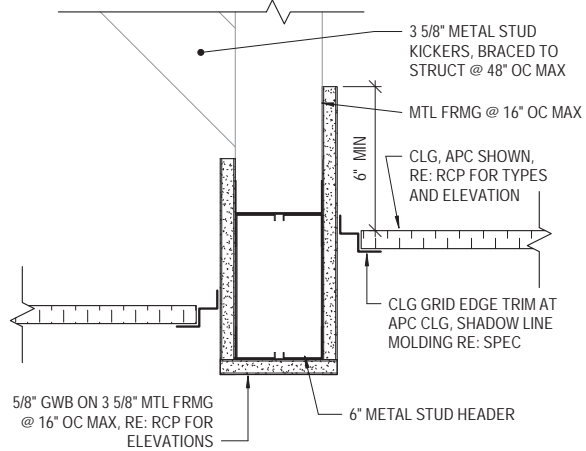


6 RECEPTION / VIS DESK PLAN SECTION
A623 3/4" = 1'-0" (at full size)

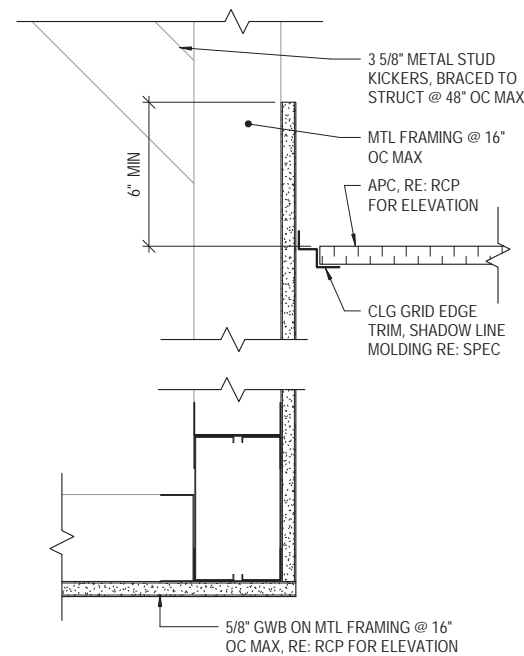


7 VESTIBULE BENCH SECTION
A623 1 1/2" = 1'-0" (at full size)

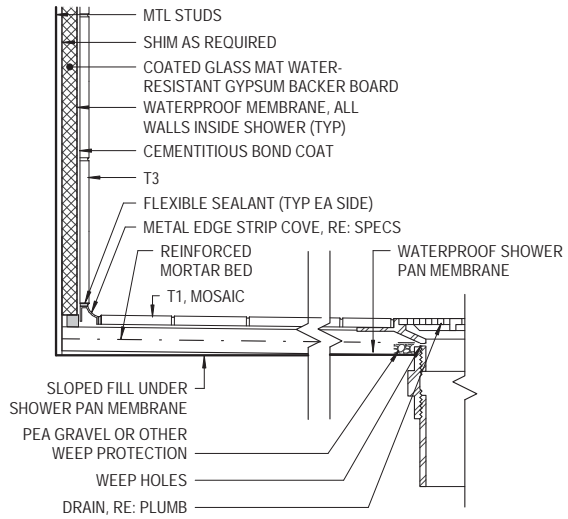
5 GYP BOARD SOFFIT AT GYP CLG 6" (TYP)
A623 3" = 1'-0" (at full size)



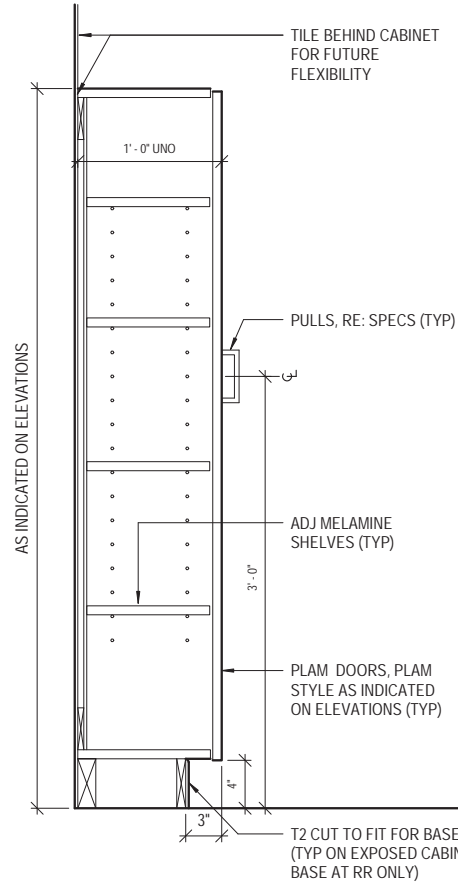
3 GYPSUM BOARD BULKHEAD (TYP)
A623 3" = 1'-0" (at full size)



4 GYPSUM BOARD SOFFIT AT APC CLG (TYP)
A623 3" = 1'-0" (at full size)

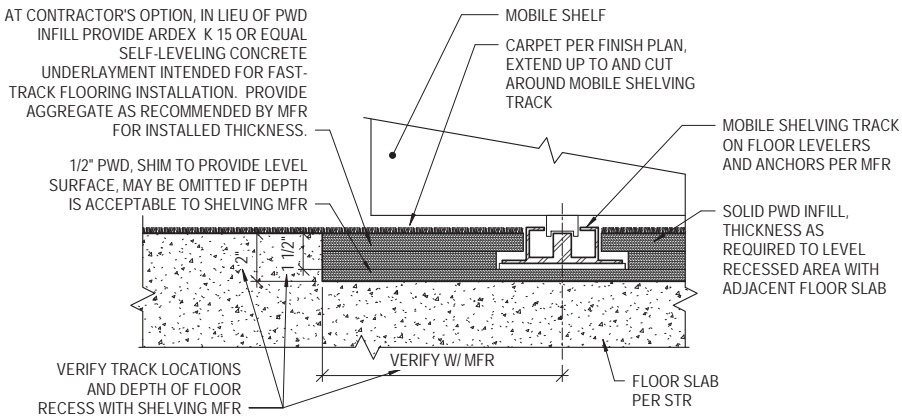


1 TILE SHOWER DETAIL
A623 3" = 1'-0" (at full size)



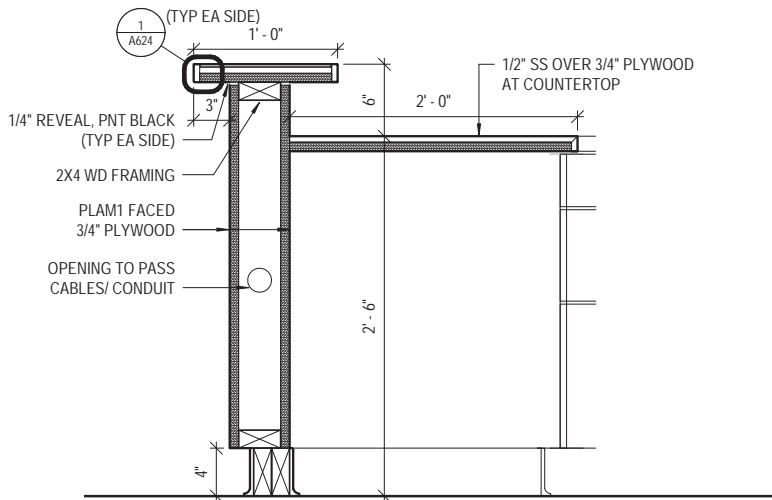
2 CASEWORK SECTION - RESTROOM CABINET
A623 1 1/2" = 1'-0" (at full size)

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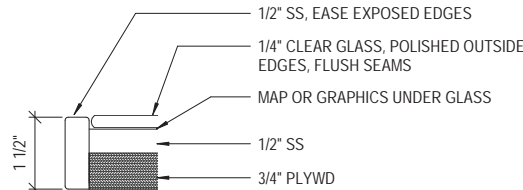
4 FLOOR DETAIL AT MOBILE SHELVEING TRACK

A624 3" = 1'-0" (at full size)



5 RECEPTION / VIS SECTION AT WORK SURFACE

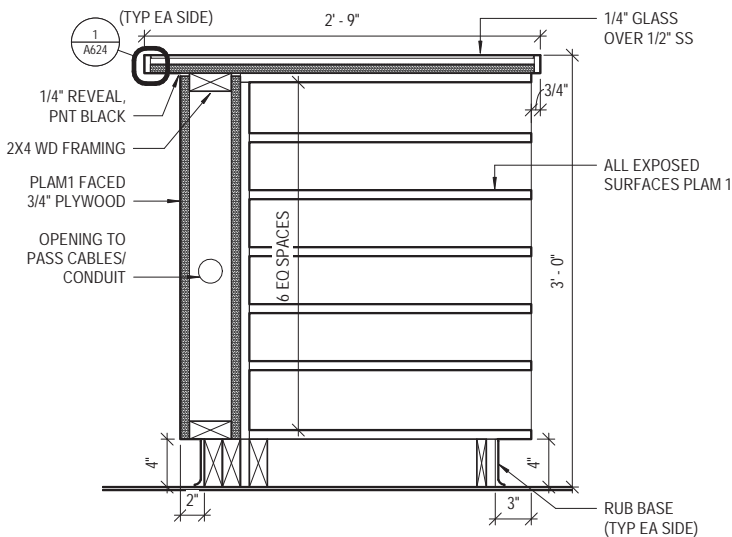
A624 1 1/2" = 1'-0"(at full size)



NOTE:
PROVIDE GLASS SEAM LOCATIONS FOR REVIEW WITH SHOP DRAWINGS.
PROVIDE GOVERNMENT WITH GLASS SUCTION CUPS TO REPLACE MAPS AS NEEDED.

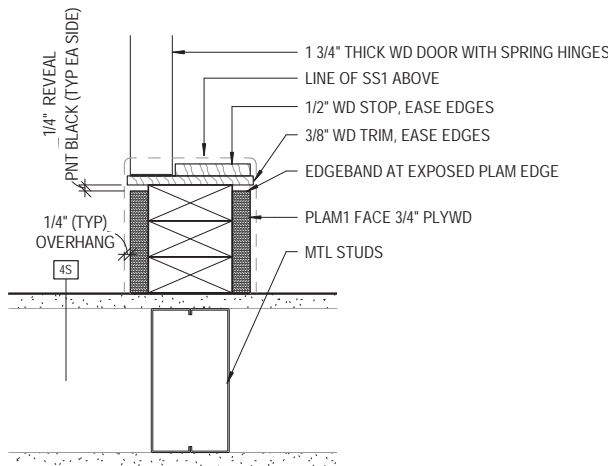
1 COUNTERTOP EDGE DETAIL

A624 6" = 1'-0" (at full size)



2 RECEPTION / VIS SECTION AT TRANSACTION TOP

A624 1 1/2" = 1'-0"(at full size)



3 GATE JAMB DETAIL

A624 3" = 1'-0" (at full size)



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DRAWING TITLE

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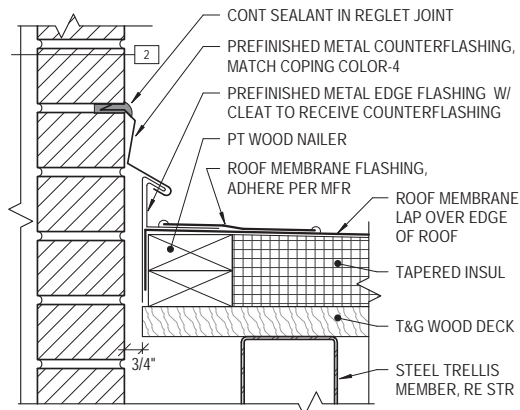
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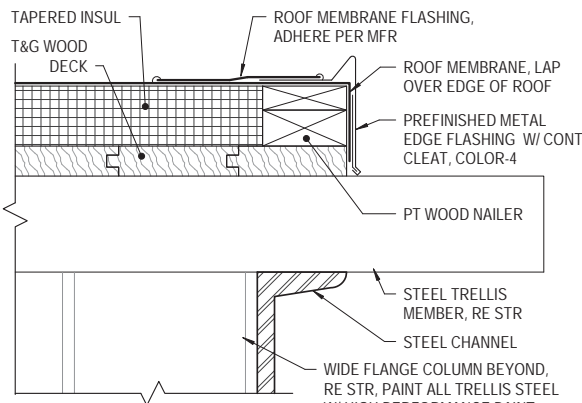
A624

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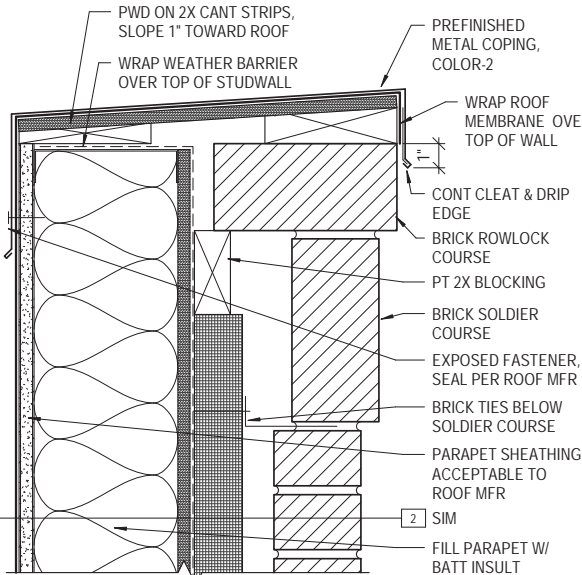
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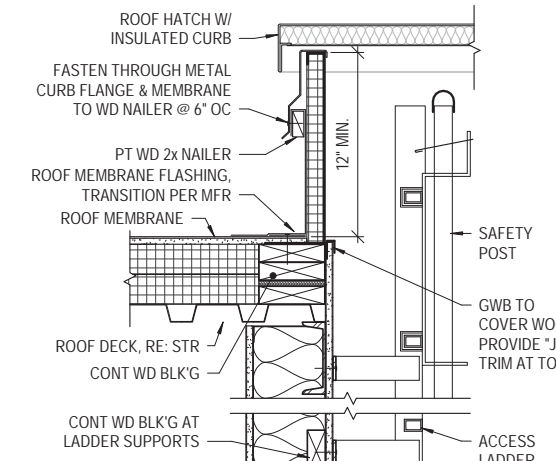
11 ENTRANCE CANOPY AT BRICK WALL
A641 3" = 1'-0" (at full size)



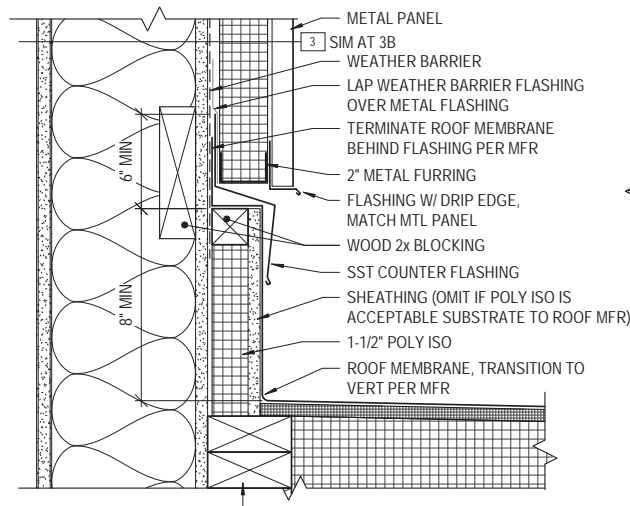
12 ROOF EDGE AT ENTRANCE CANOPY
A641 3" = 1'-0" (at full size)



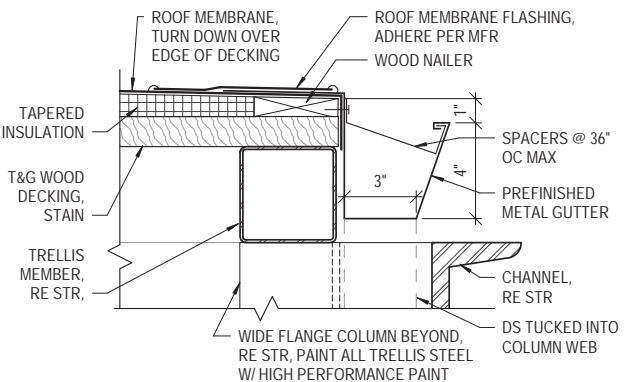
13 BRICK PARAPET DETAIL
A641 3" = 1'-0" (at full size)



8 ROOF HATCH CURB W/ LADDER ACCESS
A641 1 1/2" = 1'-0" (at full size)

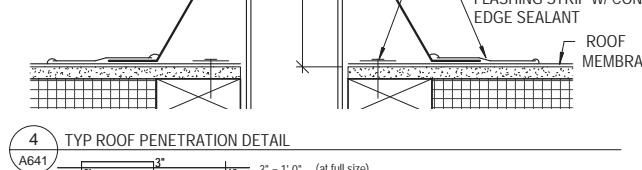


9 ROOF DETAIL TO WALL TYPE 3 TRANSITION
A641 3" = 1'-0" (at full size)

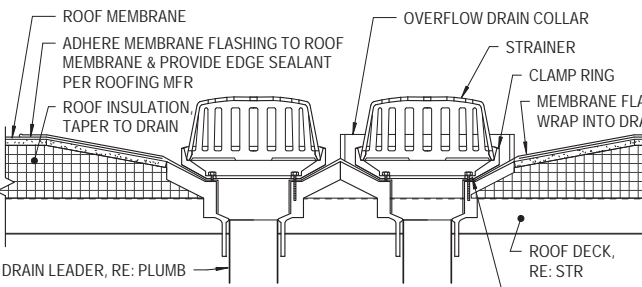


10 GUTTER AT ENTRANCE CANOPY
A641 3" = 1'-0" (at full size)

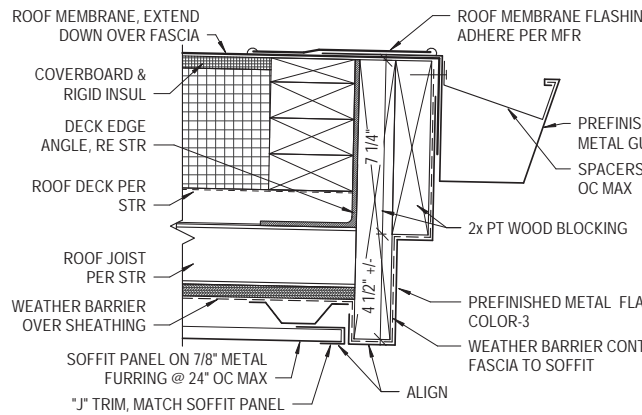
NOTES:
1. PIPE SURFACE MUST BE CLEAN OF ALL RUST, GREASE, ETC.
2. PIPE MUST BE ANCHORED TO ROOF STRUCTURE, RE: MECH.
3. PRE-MOLDED PIPE BOOTS MAY BE CUT TO HEIGHT, BUT NO LOWER THAN 2" FROM FLANGE (NO WRINKLE FOLDS UNDER CLAMP RING).



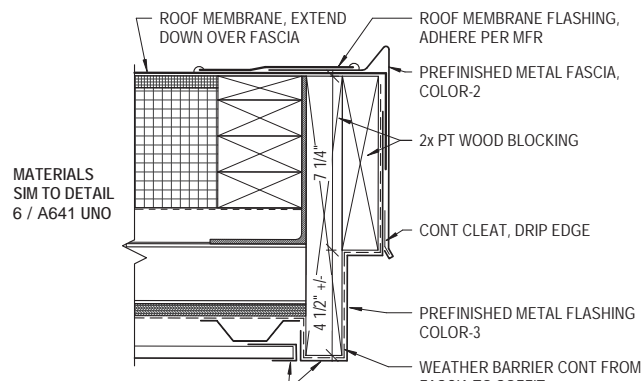
4 TYP ROOF PENETRATION DETAIL
A641 3" = 1'-0" (at full size)



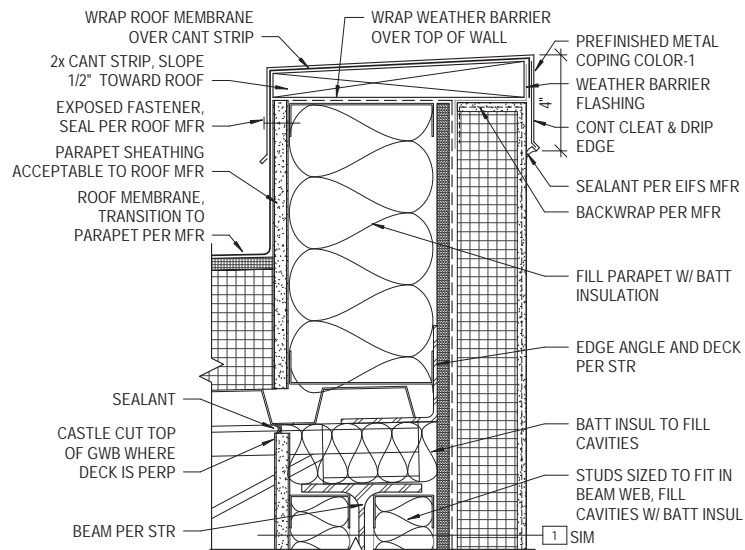
5 TYP ROOF DRAIN DETAIL
A641 1 1/2" = 1'-0" (at full size)



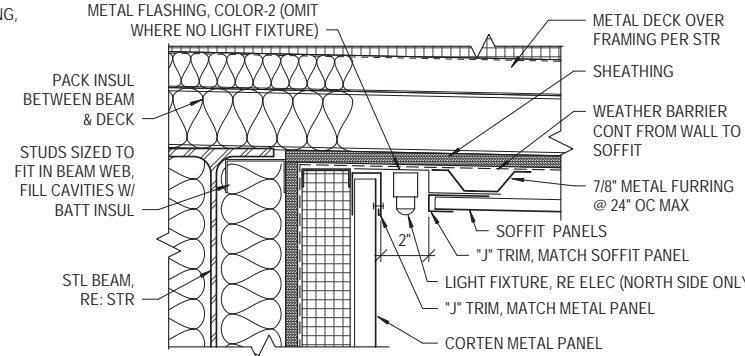
6 GUTTER AT UPPER ROOF
A641 3" = 1'-0" (at full size)



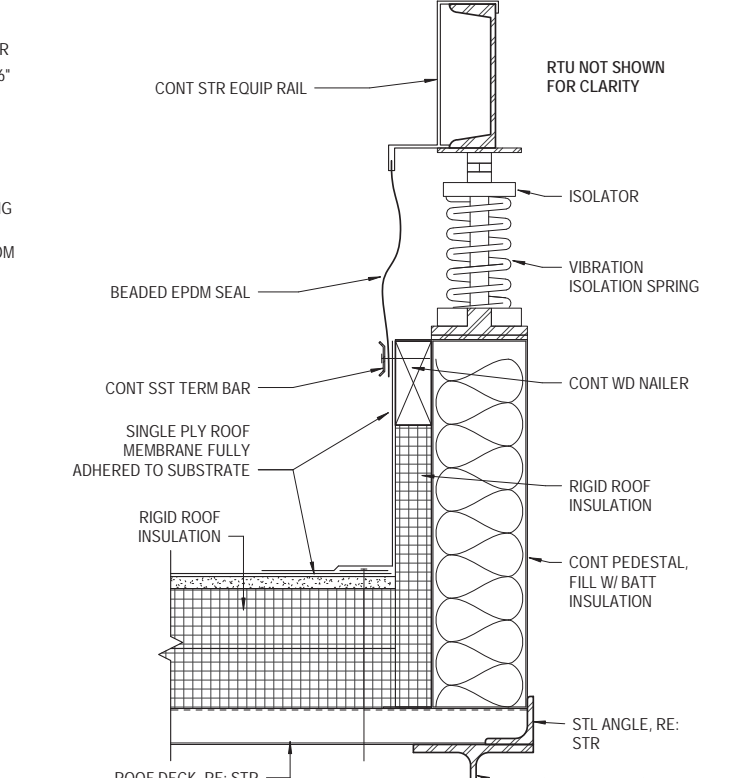
7 FASCIA AT UPPER ROOF
A641 3" = 1'-0" (at full size)



1 TYPICAL PARAPET
A641 3" = 1'-0" (at full size)



2 SOFFIT DETAIL AT LIGHT COVE
A641 3" = 1'-0" (at full size)



3 TYP VIBRATION ISOLATION RTU CURB
A641 3" = 1'-0" (at full size)



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ROOF DETAILS

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DESIGNER
ENM

CHECKED
DGG

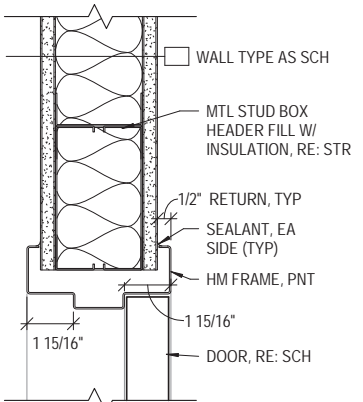
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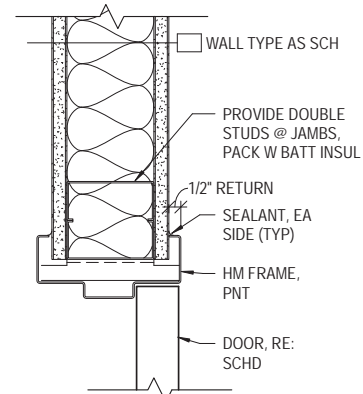
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SHEET
OF 119

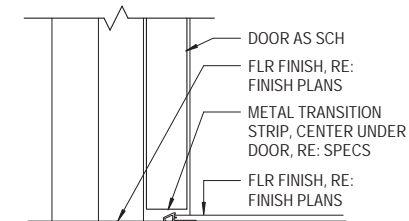
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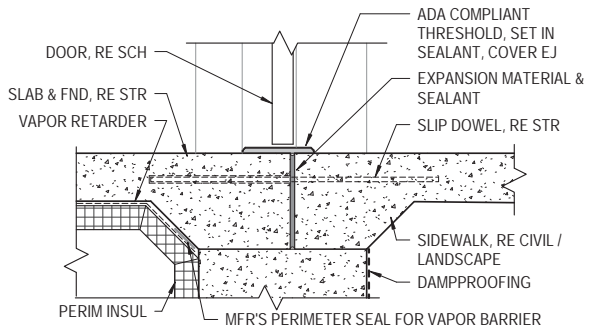
4 INT DOOR HEAD
A701 3" = 1'-0" (at full size)



5 INT DOOR JAMB
A701 3" = 1'-0" (at full size)

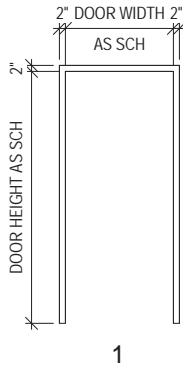
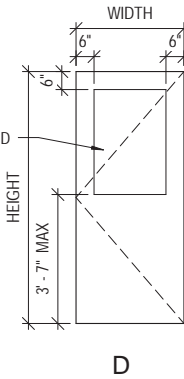
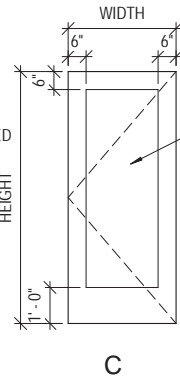
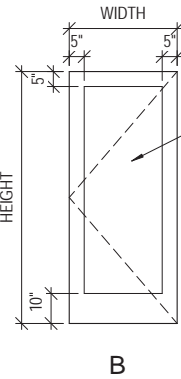
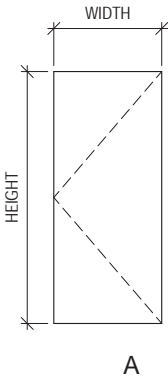


6 THRESHOLD DETAIL - TYP INTERIOR
A701 3" = 1'-0" (at full size)



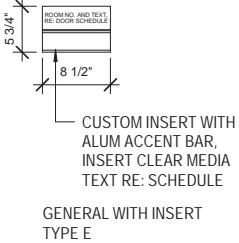
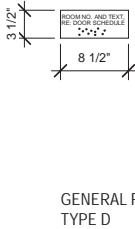
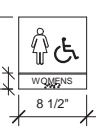
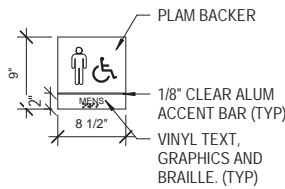
7 STOREFRONT DOOR THRESHOLD
A701 1 1/2" = 1'-0"(at full size)

DOOR SCHEDULE															
DOOR NO.	DOOR						FRAME					HDW R SET	NOTES	SIGNAGE	
	W	H	T	MATERIAL	TYPE	FIRE RATING	MATERIAL	TYPE	DETAIL					SIGN TYPE	TEXT
									JAMB	HEAD	SILL				
100A	3'-0"	7'-0"	1 3/4"	AL	B		AL	WDW G				AL-01		D	EXIT
100B	3'-0"	7'-0"	1 3/4"	AL	B		AL	WDW 4				AL-03			
101A	3'-0"	7'-0"	1 3/4"	WD	D		HM	1				11	CORRIDOR IS SECURE SIDE	D	STAFF ONLY (BOTH SIDES OF DOOR)
101B	3'-0"	2'-0 1/2"	1 3/4"	WD	A		WD	-				10			
102	3'-0"	7'-0"	1 3/4"	WD	A		HM	1				07		C	RESTROOM
103	3'-0"	7'-0"	1 3/4"	WD	A		HM	1				07		C	RESTROOM
104A	3'-0"	7'-0"	1 3/4"	WD	C		HM	1				11	INTEGRAL BLINDS IN VISION LITE	D	MEETING ROOM 104
104B	3'-0"	7'-0"	1 3/4"	WD	C		HM	1	5/A701	4/A701		05	OBSCURE GLAZING AT VISION LITE	D	MEETING ROOM 104
105	3'-0"	7'-0"	1 3/4"	AL	B		AL	WDW H				AL-02	OBSCURE GLAZING AT VISION LITE	D	EXIT
106	3'-0"	7'-0"	1 3/4"	WD	A		HM	1				04		E	OFFICE 106
107	3'-0"	7'-0"	1 3/4"	WD	A		HM	1				04		E	OFFICE 107
108	3'-0"	7'-0"	1 3/4"	WD	A		HM	1				04		E	OFFICE 108
111	3'-0"	7'-0"	1 3/4"	WD	C		HM	1				04	INTEGRAL BLINDS IN VISION LITE	D	FOCUS ROOM 111
115	3'-0"	7'-0"	1 3/4"	WD	C		HM	1	5/A701	4/A701		04	OBSCURE GLAZING AT VISION LITE	D	MEETING ROOM 115
118	3'-0"	7'-0"	1 3/4"	WD	A		HM	1				07		D	WELLNESS ROOM 118
119	3'-0"	7'-0"	1 3/4"	WD	A		HM	1				07		C	SHOWER ROOM
120	6'-0"	7'-0"	1 3/4"	WD	A (PAIR)		HM	1				03		D	IT 120
121	3'-0"	7'-0"	1 3/4"	WD	A		HM	1				06		A	MEN
122	3'-0"	7'-0"	1 3/4"	WD	A		HM	1				06		B	WOMEN
123	3'-0"	7'-0"	1 3/4"	WD	A		HM	1				02		D	MECHANICAL ELECTRICAL AND CUSTODIAL ROOM 123
124	3'-0"	7'-0"	1 3/4"	WD	C		HM	WDW 3				04		D	BIO LAB 124
125	3'-0"	7'-0"	1 3/4"	AL	B		AL	WDW H				AL-02	OBSCURE GLAZING AT VISION LITE	D	"EXIT"
126	3'-0"	7'-0"	1 3/4"	WD	A		HM	1				01		D	STORAGE ROOM 126
127A	3'-0"	7'-0"	1 3/4"	WD	C		HM	1				08		D	BREAK ROOM 127
127B	3'-0"	7'-0"	1 3/4"	AL	B		AL	WDW G				AL-02		D	EXIT
128	3'-0"	7'-0"	1 3/4"	WD	A		HM	1				09		D	LOCKER ROOM 128
130	3'-0"	7'-0"	1 3/4"	WD	A		HM	1				04		D	STORAGE 130



2 DOOR TYPES
A701 3/8" = 1'-0" (at full size)

1 FRAME TYPES
A701 3/8" = 1'-0" (at full size)



3 SIGN TYPES1
A701 1" = 1'-0" (at full size)



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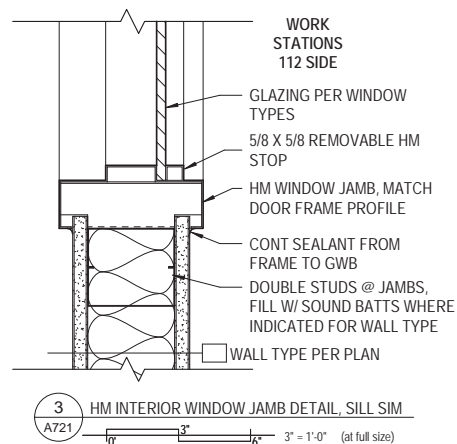
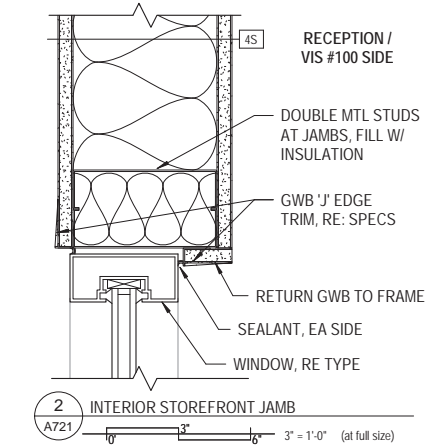
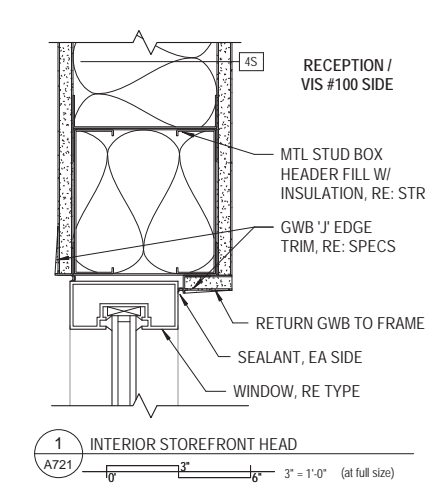
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**DOOR TYPES,
SCHEDULE &
DETAILS**

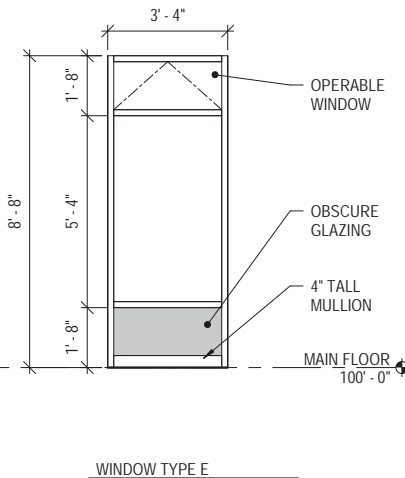
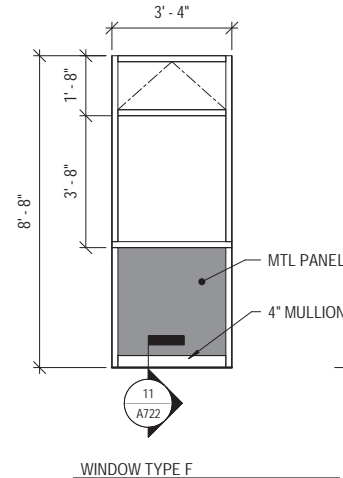
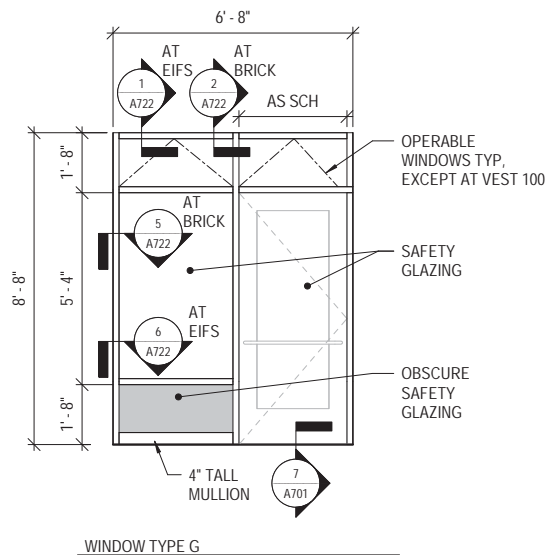
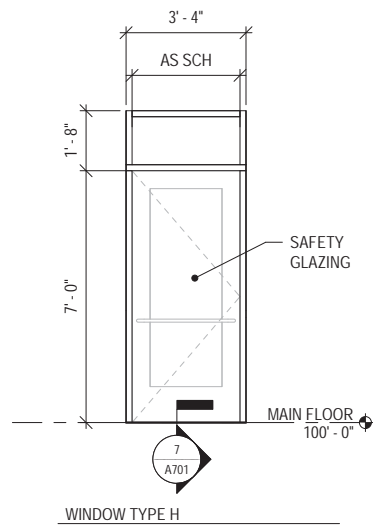
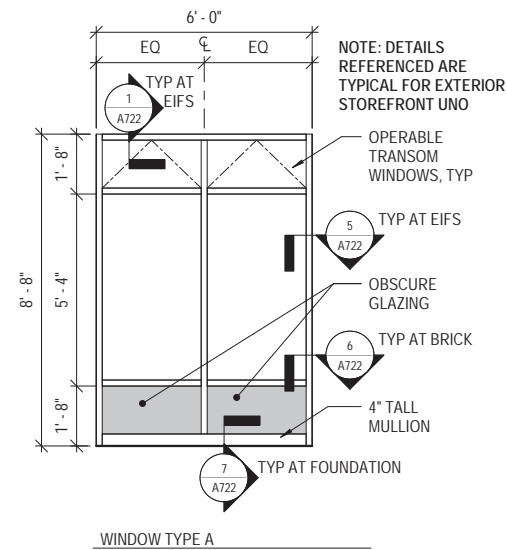
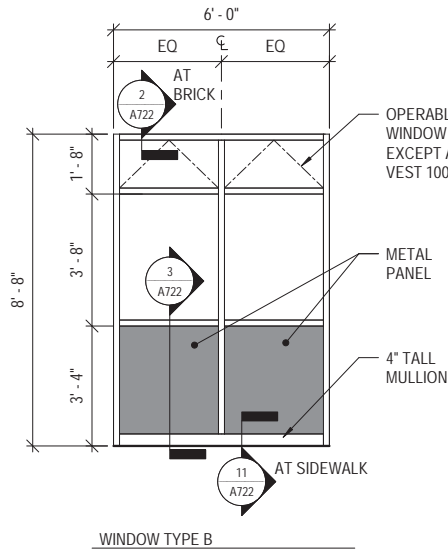
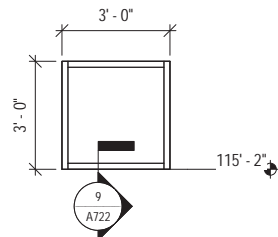
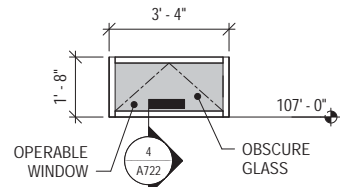
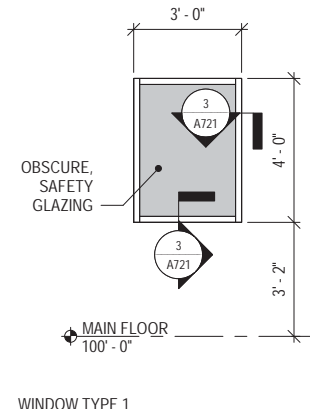
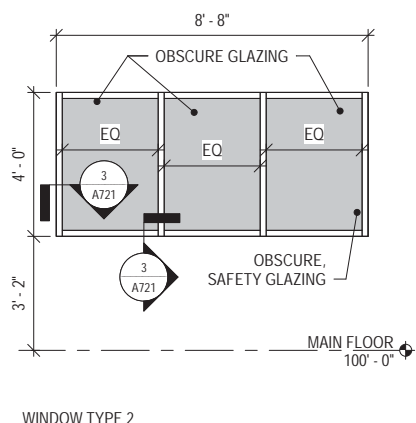
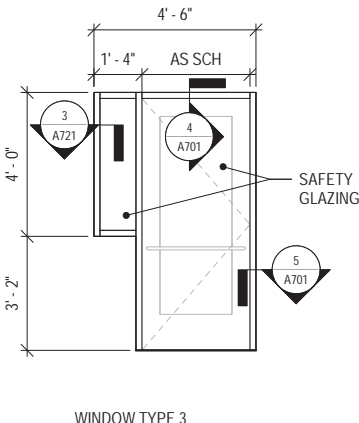
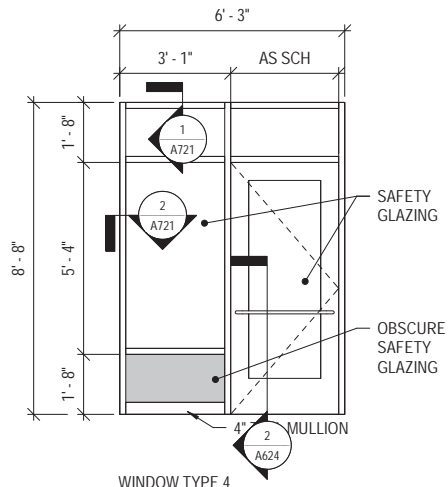
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DESIGNER ENM	SUB SHEET NO.
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DATE 7/9/2020	SHEET 63 OF 119

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- GENERAL NOTES:
- SEE SPECIFICATIONS FOR SCHEDULE OF ROLLER BLIND LOCATIONS.
 - SEE GLAZING SPECIFICATION FOR SCHEDULE OF GLAZING TYPES AND LOCATIONS.



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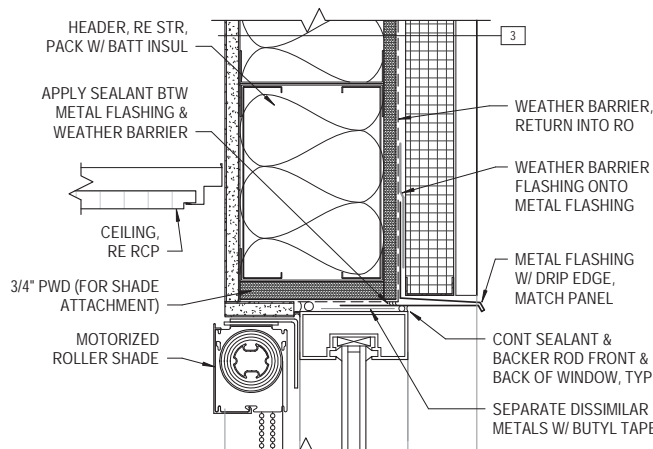
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**WINDOW TYPES
AND DETAILS**

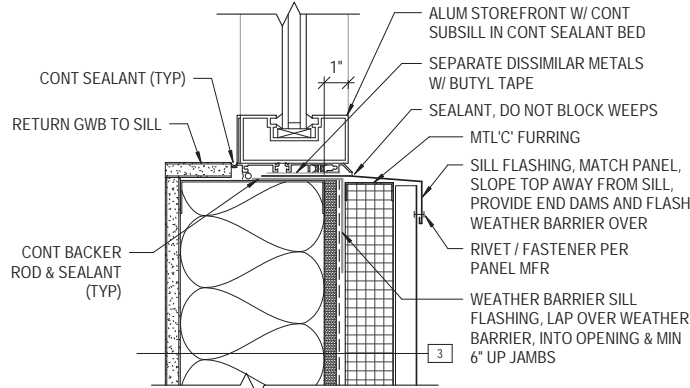
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DATE 7/9/2020	SHEET 64 OF 119

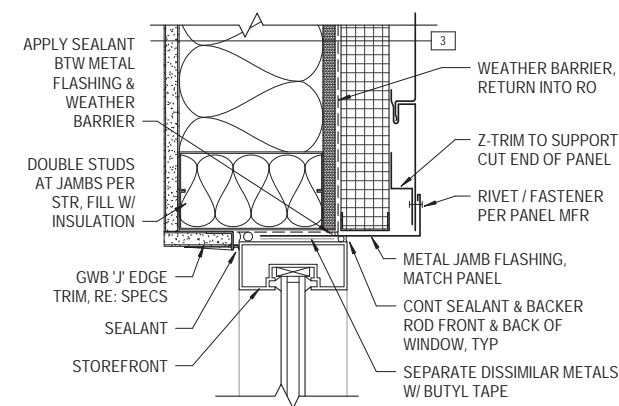
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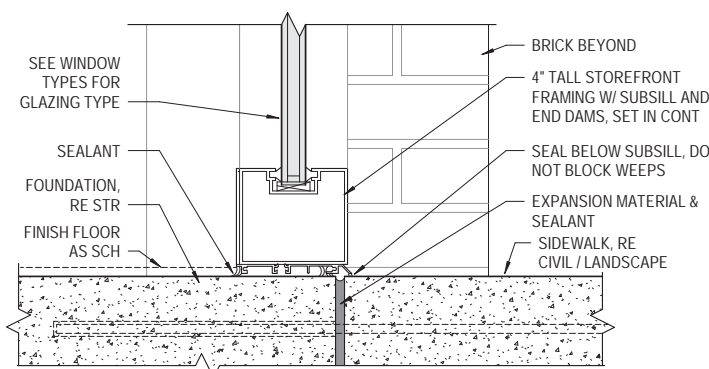
8 CLERESTORY WINDOW HEAD AT METAL PANEL
A722 3' x 1'-0" (at full size)



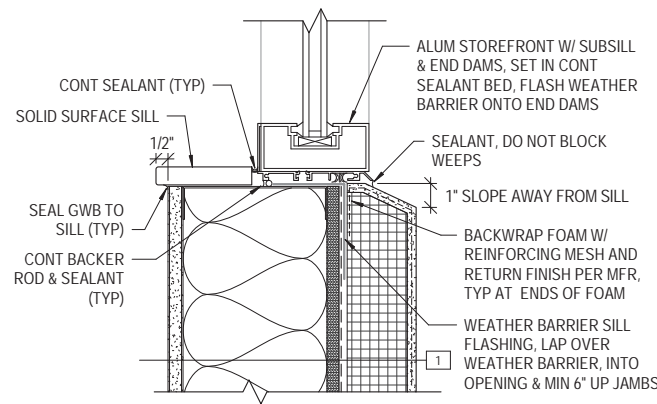
9 CLERESTORY WINDOW SILL AT METAL PANEL
A722 3' x 1'-0" (at full size)



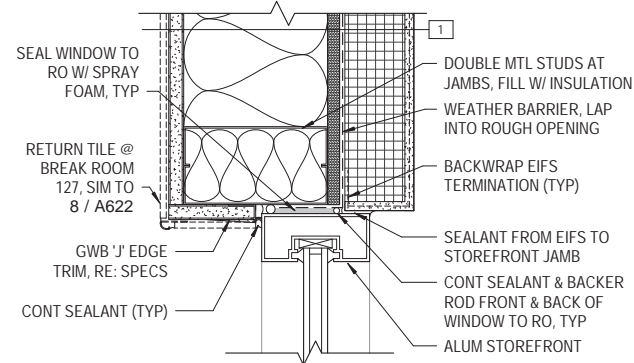
10 CLERESTORY WINDOW JAMB AT METAL PANEL
A722 3' x 1'-0" (at full size)



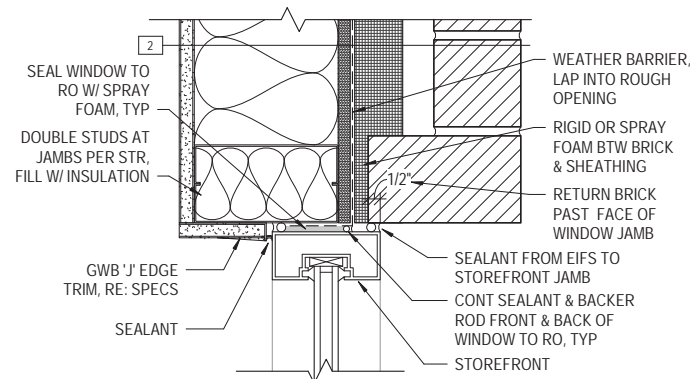
11 WINDOW SILL AT SIDEWALK
A722 3' x 1'-0" (at full size)



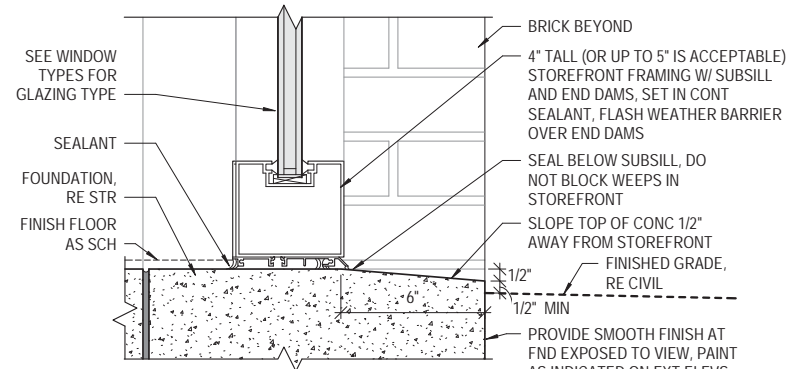
4 WINDOW SILL AT EIFS
A722 3' x 1'-0" (at full size)



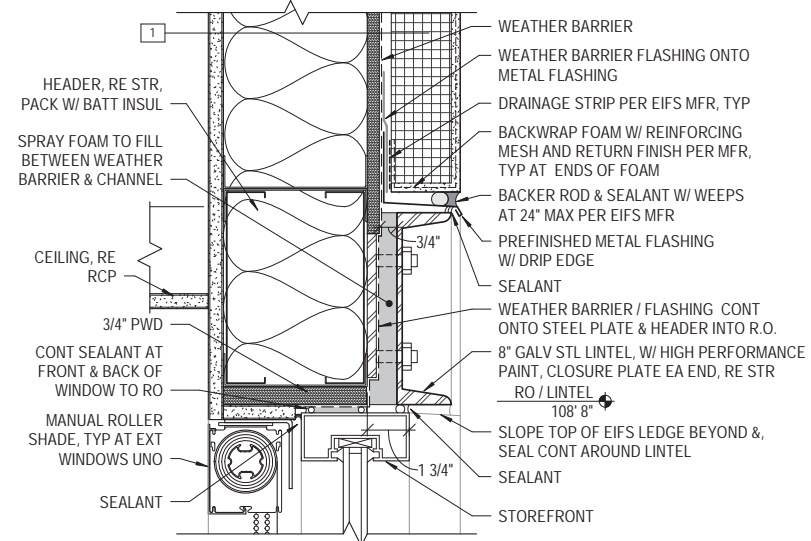
5 WINDOW JAMB AT EIFS
A722 3' x 1'-0" (at full size)



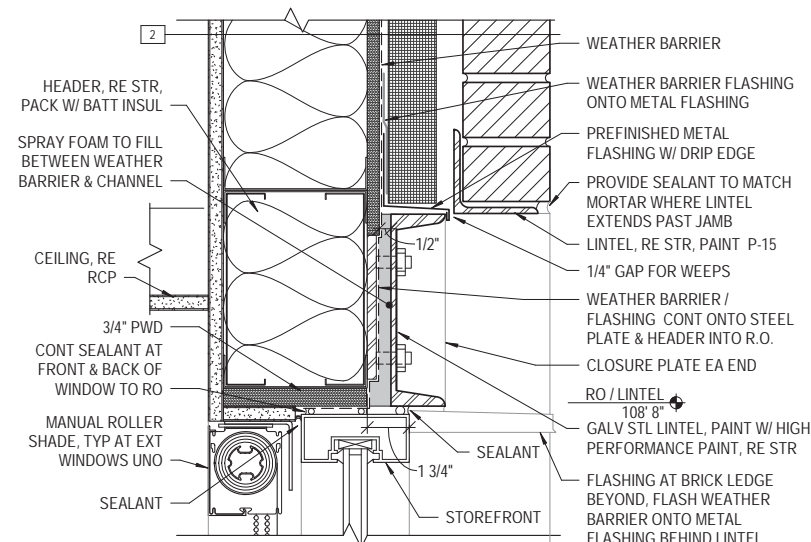
6 WINDOW JAMB AT BRICK
A722 3' x 1'-0" (at full size)



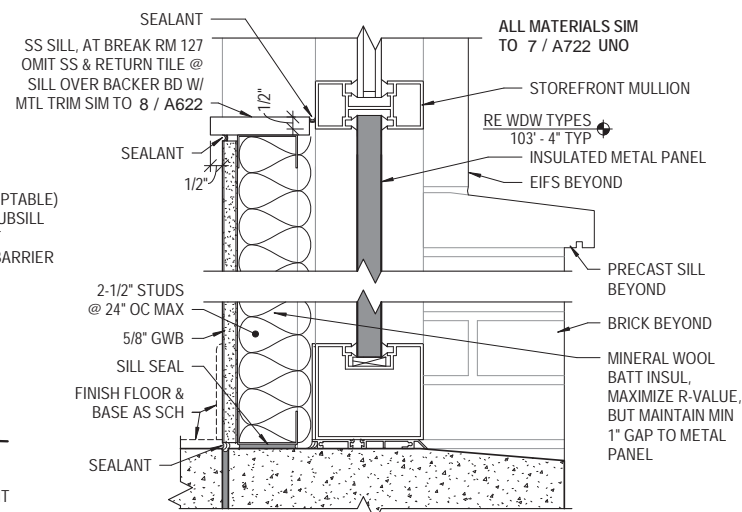
7 TYPICAL WINDOW SILL AT FLOOR LEVEL
A722 3' x 1'-0" (at full size)



1 TYPICAL WINDOW HEAD AT STEEL LINTEL
A722 3' x 1'-0" (at full size)



2 WINDOW HEAD AND STEEL LINTEL AT BRICK
A722 3' x 1'-0" (at full size)



3 STOREFRONT SECTION AT METAL PANEL INFILL
A722 3' x 1'-0" (at full size)



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INTERIOR COLOR SCHEDULE			
SPECIFICATION SECTION		ITEM	COLOR
NUMBER	TITLE		
06 4023	INTERIOR ARCHITECTURAL MILLOWRK	PLAM1	FORMICA - AGED ASH
06 4023	INTERIOR ARCHITECTURAL MILLOWRK	PLAM2	FORMICA - WHITE TWILL
06 4023	INTERIOR ARCHITECTURAL MILLOWRK	PLAM4	WILSONART - MESH GRAY
06 4023	INTERIOR ARCHITECTURAL MILLOWRK	PLAM5	FORMICA - SILVER RIFTWOOD
06 4023	INTERIOR ARCHITECTURAL MILLOWRK	WOOD / WD	MATCH ARCHITECT'S SAMPLE / MATCH FLUSH WOOD DOORS
06 6400	PLASTIC PANELING	FRP	AS SELECTED FROM MANUFACTURER'S STANDARD COLORS
08 1113	INTERIOR HOLLOW METAL DOORS AND FRAMES	P4	SW 7504 KEYSTONE GRAY
08 1416	FLUSH WOOD DOORS		MATCH ARCHITECT'S SAMPLE
08 4113	ALUMINUM FRAMED ENTRANCES AND STOREFRONTS		CLEAR ANODIZED ALUM
08 7100	DOOR HARDWARE		RE: SPECS
08 8130	INSULATING GLASS BLIND SYSTEM		TO BE SELECTED FROM MANUFACTURER'S STANDARD COLORS
09 3000	TILING	T1 & T1 MOSAIC	DALTILE: ARTICULO - COLUMN GRAY
09 3000	TILING	T2	MOSA: MURALS BLEND COLOR SEA BLUE #2, 32100
09 3000	TILING	T3	MOSA: MURALS CHANGE / LINES MID WARM GREY #1/#3, 34530
09 3000	TILING	T4	MOSA: GLOBAL COLLECTION PLAIN TURQUOISE 16720
09 3000	GROUT	FLOOR AND WALL	MAPEI 39 IVORY
09 5113	ACOUSTICAL PANEL CEILINGS	APC1 TILE + GRID	WHITE
09 6513	RESILIENT BASE AND ACCESSORIES	RUBBER BASE	ROPPE: 178 PEWTER
09 6813	TILE CARPETING	CPT 1	MANNINGTON CRINKLED PAPER, COLOR GRASS
09 6813	TILE CARPETING	CPT 2	MANNINGTON CREASED PAPER, COLOR GRASS
09 6813	TILE CARPETING	WCPT	TO BE SELECTED FROM MANUFACTURER'S STANDARD COLORS
09 6818	RESILIENT TILE FLOORING	LIN	FORBO MARMOLEUM - 1e5231 CLIFF OF MOHER
09 9123	INTERIOR PAINTING	P3	SW 6215 ROCKY RIVER
09 9123	INTERIOR PAINTING	P1	SW 7044 AMAZING GRAY
09 9123	INTERIOR PAINTING	P2	SW 7757 HIGH REFLECTIVE WHITE
09 9123	INTERIOR PAINTING	P6	SW 7064 PASSIVE
09 9123	INTERIOR PAINTING	P7	SW 6222 RIVERWAY
09 9123	INTERIOR PAINTING	P8	SW 7043 WORLDLY GRAY
09 9123	INTERIOR PAINTING	P9	SW 7022 ALPACA
10 1100	VISUAL DISPLAY UNITS	TACK BOARD	FORBO 2182 GRAY
10 1100	VISUAL DISPLAY UNITS	MARKER BOARD	TO BE SELECTED FROM MANUFACTURER'S STANDARD COLORS
10 1100	VISUAL DISPLAY UNITS	TRIM	CLEAR ANODIZED ALUM
10 1423	PANEL SIGNAGE	ACCENT BAR	BLACK ANODIZED ALUM
10 1423	PANEL SIGNAGE	TEXT	BLACK
10 1423	PANEL SIGNAGE	BACKGROUND	PLAM 1
10 2113	TOILET COMPARTMENTS	PLAM 5	FORMICA - SILVER RIFTWOOD
10 2613	WALL & DOOR PROTECTION	CORNER GUARD CG	ACROVYN - 3140 OZARK
10 5113	METAL LOCKERS		LYON - PUTTY
12 2413	ROLLER SHADES	LIGHT FILTERING FABRIC 0-1 %	MECHOSHADE BLACK / BROWN
12 2413	ROLLER SHADES	FASCIA & ENDCAPS	CLEAR ANODIZED ALUM
12 3623.13	PLASTIC-LAMINATE-CLAD COUNTERTOPS	PLAM 3	WILSONART - NORTH SEA
12 3661	SIMULATED STONE COUNTERTOPS	SS	DURAT COLOR 540

EXTERIOR COLOR SCHEDULE			
SPECIFICATION SECTION		ITEM	COLOR
NUMBER	TITLE		
03 3000	CAST IN PLACE CONCRETE	EXPOSED, SMOOTH-FORMED FOUNDATION	STANDARD GRAY, PAINTED P-15 OR P-16 AS INDICATED
03 3000	CAST IN PLACE CONCRETE	SITE CONCRETE	STANDARD GRAY, UNO
03 4500	PRECAST ARCHITECTURAL CONCRETE	PRECAST WAINSCOT CAP	MATCH DAVIS COLOR, PEBBLE 641
04 2613	MASONRY VENEER	BRICK	INTERSTATE BRICK, WALNUT
04 2613	MASONRY VENEER	MORTAR	INTEGRAL COLOR, TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLORS
05 1200	STRUCTURAL STEEL FRAMING	TRELLIS AND SHADE STRUCTURES	P-12
05 1200	STRUCTURAL STEEL FRAMING	WINDOW HEAD STEEL LINTELS	P-13
05 5000	METAL FABRICATIONS	STEEL HANDRAILS	BRUSHED STAINLESS STEEL
07 2419	EXTERIOR INSULATION AND FINISH SYSTEMS	EIFS, COLOR-1	MATCH SHERWIN WILLIAMS, SW7048, URBAN BRONZE
07 2419	EXTERIOR INSULATION AND FINISH SYSTEMS	EIFS, COLOR-2	MATCH SHERWIN WILLIAMS, SW6200, LINK GRAY
07 4100	PREFORMED METAL WALL PANELS	METAL WALL PANEL	VERTICAL, 18" WIDE, CONCEALED FASTENER CORTEN STEEL PANELS
07 4213	ALUMINUM SIDING AND SOFFITS	HORZ METAL WALL PANEL AT INTERIOR OF EMPLOYEE BREAK SCREENWALL	ROLLFAB METAL PRODUCTS, ALUMABOARD, 4" WIDE, "SUPER OAK"
07 4213	INSULATED METAL WALL PANELS	STOREFRONT INFILL PANELS	METALLIC FINISH, MATCH STOREFRONT FRAMING
07 4600	ALUMINUM SIDING AND SOFFITS	SOFFIT PANELS	ROLLFAB METAL PRODUCTS, ALUMABOARD, 4" WIDE, "SUPER OAK"
07 5423	THERMOPLASTIC POLYOLEFIN ROOFING (TPO)	TPO	WHITE
07 6200	SHEET METAL FLASHING AND TRIM	COPINGS / FLASHINGS, COLOR-1	BERRIDGE, "CITYSCAPE"
07 6200	SHEET METAL FLASHING AND TRIM	COPINGS / FLASHINGS, COLOR-2	BERRIDGE, "DARK BRONZE"
07 6200	SHEET METAL FLASHING AND TRIM	COPINGS / FLASHINGS, COLOR-3	BERRIDGE, "AGED BRONZE"
07 6200	SHEET METAL FLASHING AND TRIM	COPINGS / FLASHINGS, COLOR-4	BERRIDGE, "AGED BRONZE"
07 6200	SHEET METAL FLASHING AND TRIM	DOWNSPOUTS, COLOR-1	ACM, "DESERT SAND"
07 6200	SHEET METAL FLASHING AND TRIM	DOWNSPOUTS, COLOR-2	ACM, "MUSKET BROWN"
07 6200	SHEET METAL FLASHING AND TRIM	GUTTERS, COLOR-1	ACM, "DESERT SAND"
07 6200	SHEET METAL FLASHING AND TRIM	GUTTERS, COLOR-2	ACM, "MUSKET BROWN"
07 9200	JOINT SEALERS	BRICK CONTROL JOINT	TBD TO MATCH MORTAR
07 9200	JOINT SEALERS	HORZ JOINTS IN CONC AND BETWEEN BLDG & CONC	TBD TO MATCH CONC
07 9200	JOINT SEALERS	JOINTS IN EIFS AND AT EIFS PERIMETER	MATCH EIFS FINISH COLOR
07 9200	JOINT SEALERS	STOREFRONT PERIMETER JOINTS (NOT IN CONTACT W/ EIFS)	TBD TO MATCH STOREFRONT
08 1113	HOLLOW METAL DOORS AND FRAMES	DOORS	TBD
08 1113	HOLLOW METAL DOORS AND FRAMES	FRAMES	TBD
08 4113	ALUMINUM FRAMED ENTRANCES AND STOREFRONTS	STOREFRONT FRAMING	CLEAR ANODIZED ALUM
08 7100	DOOR HARDWARE		RE SPECIFICATIONS
08 8000	GLAZING	GLASS TYPE 1	RE SPECIFICATIONS
09 9113	EXTERIOR PAINTING	P-13	TBD TO BLEND WITH BRICK COLOR
09 9113	EXTERIOR PAINTING	P-14	TBD TO MATCH PRECAST SILL COLOR
09 9300	STAINING	WOOD DECKING	MATCH COLOR OF METAL SOFFIT PANEL FINISH
09 9600	HIGH PERFORMANCE COATINGS	P-12 (TRELLIS)	SHERWIN WILLIAMS, SW6124 CARDBOARD
09 9600	HIGH PERFORMANCE COATINGS	P-15 (LINTELS)	TENEMEC, ALUMINUM 39MT
09 9600	HIGH PERFORMANCE COATINGS	P-16 (BOLLARDS)	TBD
10 1200	DISPLAY CASES	ALUMINUM	TO BE SELECTED FROM MANUFACTURER'S STANDARD COLORS
10 1200	DISPLAY CASES	TACKABLE BACKPANEL	TO BE SELECTED FROM MANUFACTURER'S STANDARD COLORS
10 1419	DIMENSIONAL LETTER SIGNAGE	EXTERIOR CUT ALUMINUM LETTERS	TO BE SELECTED FROM MANUFACTURER'S STANDARD COLORS
12 9300	SITE FURNISHINGS		TBD







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RANGER DISTRICT
OFFICE**

ASPEN / SOPRIS RANGER DISTRICT

DRAWING TITLE
COLOR SCHEDULE

ARCHIVE
NO. 100% CONSTRUCTION DOCUMENTS

DESIGNER
ENM

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DGG

DATE
7/9/2020

SUB SHEET
NO.
A741

SHEET
66 OF **119**

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STRUCTURAL COLD FORMED STEEL SPECIAL INSPECTIONS(2)			
ITEM	FREQUENCY	STANDARD	CRITERIA
FRAMING			
- MEMBERS AND CONNECTIONS	P	-	VERIFY TYPE, SIZE, LOCATION, SPACING
- BRIDGING AND BLOCKING	P	-	VERIFY TYPE, LOCATION, AND ATTACHMENT
- FIELD CUTS AND NOTCHES	P	-	NO CUTS OR NOTCHES THROUGH SECTION FLANGES PERMITTED
- SP LICING	P	-	NO SP LICING OF STRUCTURAL MEMBERS PERMITTED UNLESS SPECIFIED ON THE CONSTRUCTION DOCUMENTS
- PUNCHOUTS	P	-	VERIFY SPACING REQUIREMENTS FROM BEARINGS AND CONNECTIONS AND REINFORCING IS USED WHERE REQUIRED
WELDED ATTACHMENTS			
- PRIOR TO WELDING	-	AWS D1.1/D1.3	VERIFY FILLER MATERIALS, WELDING PROCEDURES, WELDER QUALIFICATIONS, AND MANUFACTURER'S CERTIFICATE OF COMPLIANCE
- DURING WELDING	P	AWS D1.3	-
- AFTER WELDING	100% VISUAL	AWS D1.3	-
- CORROSION RESISTANCE TREATMENT	P	-	WELDED AREAS ARE TO BE TREATED WITH APPROVED TREATMENT TO MATCH CORROSION RESISTANCE OF AFFECTED AREA
SCREWED ATTACHMENTS			
- FASTENER	P	-	VERIFY TYPE, DIAMETER, LENGTH, SPACING AND EDGE DISTANCES
- SCREW PENETRATION	P	-	VERIFY MATERIALS HAVE BEEN DRAWN TOGETHER AND SCREWS ARE FULLY DRIVEN WITH A MINIMUM PENETRATION OF 3 THREADS THROUGH THE LAST MATERIAL JOINED
- DAMAGED SCREWS	P	-	NO POPPED SCREW HEADS OR STRIPPED SCREWS ARE PERMITTED. ALL DAMAGED SCREWS SHALL BE REPLACED
- COLD FORMED STEEL ASSEMBLIES	P	ICC-ES REPORT	VERIFY TYPE, NUMBER OF FASTENERS, AND INSTALLATION IN CONFORMANCE WITH ICC-ES REPORT
POWER-ACTUATED FASTENERS			
- PRIOR TO INSTALLATION	FIRST OF EACH FASTENER TYPE AND BASE...	ICC-ES REPORT	VERIFY TYPE, DIAMETER, LENGTH, FINISH, AND BASE MATERIAL
- DURING INSTALLATION	P	ICC-ES REPORT	-
- AFTER INSTALLATION	100% VISUAL	-	VERIFY MATERIALS HAVE BEEN DRAWN TOGETHER AND FASTENER HEAD STAND-OFF IS ACCEPTABLE (FULLY DRIVEN)

STRUCTURAL CONCRETE TESTING			
ITEM	FREQUENCY	STANDARD	CRITERIA
REINFORCING STEEL, BOLTS AND EMBEDMENTS			
- WELDING	-	-	PER STRUCTURAL STEEL TESTING
CONCRETE			
- COMPOSITE SAMPLE		ASTM C172	ADJUST FREQUENCY AS REQUIRED TO PROVIDE MINIMUM 5 TOTAL TESTS PER MIX BUT NOT MORE THAN ONE SAMPLE PER TRUCK LOAD
1. f'c < 5000 PSI	100 CY/MIX/DAY		
- SLUMP	EACH COMPOSITE SAMPLE	ASTM C143 SLUMP	SPECIFIED SLUMP SHALL BE AS SUBMITTED IN THE MIX DESIGN ± 1 1/2". PERFORM ADDITIONAL TESTS WHEN CONCRETE CONSISTENCY APPEARS TO CHANGE
- AIR CONTENT WHEN AIR ENTRAINMENT IS SPECIFIED	EACH COMPOSITE SAMPLE	ASTM C231 PRESSURE METHOD NWC	-
- TEMPERATURE	EACH COMPOSITE SAMPLE AND 60 MINUTE INTERVALS	ASTM C1064	REQUIRED WHEN AIR TEMPERATURE IS 40 °F AND BELOW OR 80°F AND ABOVE
- COLD WEATHER CURING	-	ASTM C1074	RECORD MAXIMUM AND MINIMUM CONCRETE TEMPERATURE DURING CURING PERIOD, WHEN DAILY AVERAGE AIR TEMPERATURE OF 40 °F OR BELOW IS EXPECTED FOR 3 SUCCESSIVE DAYS DURING CURING PERIOD
- COMPRESSIVE STRENGTH	EACH COMPOSITE SAMPLE	ASTM C31 ASTM C39 EITHER: (4)6x12 OR (6)4x8 CYLINDERS	TEST PER SCHEDULE BELOW: - 7 DAYS: (1)6x12 OR (1)4x8 - 28 DAYS: (2)6x12 OR (3)4x8 - 56 DAYS: (1)6x12 OR (2)4x8 (IF 28 DAY TESTS DO NOT ACHIEVE SPECIFIED 28 DAY STRENGTH) ACCEPTANCE CRITERIA PER ACI 318

STRUCTURAL CONCRETE TESTING NOTES:

1. NONDESTRUCTIVE TESTING MAY BE PERMITTED BY THE CONTRACTING OFFICER, BUT WILL NOT BE USED AS SOLE BASIS FOR APPROVAL OR REJECTION OF DEFICIENT CONCRETE.
2. REPORTS OF COMPRESSIVE STRENGTH TESTS SHALL CONTAIN THE FOLLOWING INFORMATION: DATE OF CONCRETE PLACEMENT, LOCATION OF CONCRETE BATCH IN WORK, DESIGN 28-DAY COMPRESSIVE STRENGTH, SLUMP, CONCRETE SUPPLIER AND MIXTURE ID NUMBER, TIME OF BATCH AND PLACEMENT, AMBIENT AIR TEMPERATURE, SITE ADDED WATER AND ADMIXTURES, UNIT WEIGHT, AND AS REQUIRED BY ASTM C39.


STRUCTURAL CONCRETE SPECIAL INSPECTIONS			
ITEM	FREQUENCY	STANDARD	CRITERIA
REINFORCING STEEL			
- DURING PLACEMENT	P	ACI 301-16 3.2-3.3	VERIFY GRADE, FINISH, SIZE, BAR QUANTITY, LOCATION, SPACING, COVER, HOOK LENGTHS, SPLICE LENGTH, SPLICE LOCATIONS, BEND DIAMETERS, COATING, SURFACE CONDITION, AND SUPPORT
- PRIOR TO PLACEMENT OF CONCRETE	100%		
- WELDING	C	AWS D1.4	VERIFY ASTM A706 REINFORCING STEEL
- FIELD BENDING	P	ACI 301-16 3.3.2.8	-
- COATED REINFORCING	P	ACI 301-16 3.2.1.2	-
- MECHANICAL CONNECTORS	C	ICC-ES REPORT	-
BOLTS AND EMBEDMENTS			
- PRIOR TO PLACEMENT OF CONCRETE	100%	-	VERIFY TYPE, FINISH, DIAMETER, LENGTH, QUANTITY, EMBEDMENT LENGTH, SPACING AND EDGE DISTANCES. VERIFY USE OF PLACING TEMPLATE WHERE SPECIFIED
- WELDING	-	-	INSPECT PER THE STRUCTURAL STEEL TABLE
CONCRETE			
- MIX DESIGN	EACH TRUCK	-	VERIFY USE OF APPROVED DESIGN MIXTURE FOR EACH TRUCK LOAD
- FORMWORK PRIOR TO PLACEMENT OF CONCRETE	P	ACI 301-16 2.2-2.3	INSPECT FIRST POUR OF EACH TYPE (GRADE BEAM, COLUMN, STRUCTURAL SLAB, SLAB-ON-DECK, ETC.)
- PLACEMENT OF CONCRETE	C	ACI 301-16 5.3.2	-
- CURING	P	ACI 301-16 5.3.6	-

QUALITY ASSURANCE GENERAL NOTES			
STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS AND TESTING			
<div>1. GENERAL:<div>A. SCOPE OF WORK<ul style="list-style-type: none">• THE GENERAL CONTRACTOR WILL ENGAGE A QUALIFIED INSPECTION AND TESTING AGENCY(S) TO PERFORM SPECIAL INSPECTIONS AND TESTING FOR ALL STRUCTURAL MEMBERS AND ASSEMBLIES AS NOTED HEREIN.• SPECIAL INSPECTIONS SHALL BE WITNESSED BY GENERAL CONTRACTOR, AND SUBCONTRACTOR AND SHALL BE DOCUMENTED AND SENT TO THE CONTRACTING OFFICER.• REFER TO THE SPECIFICATIONS FOR REPORTING AND PROCEDURAL REQUIREMENTS FOR QUALITY ASSURANCE AND QUALITY CONTROL.• REFER TO ARCH/MECH/ELEC/CIVIL SPECIFICATIONS AND DRAWINGS FOR ADDITIONAL SPECIAL INSPECTION AND TESTING THAT MAY BE REQUIRED.</div><div>B. SPECIAL INSPECTIONS AND TESTING ARE APPLICABLE TO ALL REVISIONS AND/OR FUTURE WORK ADDED BY AMENDMENTS TO THESE DOCUMENTS.</div><div>C. DEFINITIONS<ul style="list-style-type: none">• SPECIAL INSPECTOR: THE AGENCY ENGAGED BY THE CONTRACTOR AND APPROVED BY THE CONTRACTING OFFICER TO ACT AS THE DESIGNATED REPRESENTATIVE TO PERFORM INSPECTIONS.• SPECIAL INSPECTION: INSPECTION PERFORMED BY THE SPECIAL INSPECTOR ACCORDING TO IBC 2018 SECTION 1704 TO ENSURE COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS.• (P) PERIODIC INSPECTION: THE PART-TIME OR INTERMITTENT OBSERVATION BY THE SPECIAL INSPECTOR OF WORK BEING PERFORMED. SPECIAL INSPECTOR SHALL BE PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED. OBSERVATION OF ALL WORK (100% VISUAL) SHALL BE MADE AT THE COMPLETION OF THE WORK.• (C) CONTINUOUS INSPECTION: THE FULL-TIME OBSERVATION BY THE SPECIAL INSPECTOR OF WORK BEING PERFORMED. SPECIAL INSPECTOR SHALL BE PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED. OBSERVATION OF ALL WORK (100% VISUAL) SHALL BE MADE AT THE COMPLETION OF THE WORK.</div><div>D. DEFICIENCIES IN WORK<ul style="list-style-type: none">• CORRECT DEFICIENCIES IN WORK THAT TESTS AND INSPECTIONS INDICATE DO NOT COMPLY WITH THE CONTRACT DOCUMENTS AND REFERENCED STANDARDS.• ALL COST OF ADDITIONAL TESTING AND/OR INSPECTIONS FOR CORRECTIVE WORK SHALL BE BORNE BY THE CONTRACTOR.</div></div>			
<div>2. SHOP FABRICATIONS:<div>A. GENERAL<ul style="list-style-type: none">• PERFORM INSPECTIONS AND TESTING FOR ALL SHOP FABRICATED STRUCTURAL MEMBERS AND ASSEMBLIES AS NOTED HEREIN. SPECIAL INSPECTOR SHALL PERFORM SPECIAL INSPECTIONS AND TESTING UNLESS THE FABRICATOR IS REGISTERED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION OR FABRICATION HAS A CURRENT ICC-ES EVALUATION REPORT.• SPECIAL INSPECTOR SHALL VERIFY THE FABRICATOR MAINTAINS AND FOLLOWS DETAILED SHOP FABRICATION AND QUALITY CONTROL PROCEDURES, UNLESS FABRICATOR IS REGISTERED AND APPROVED.• AT THE COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE CONTRACTING OFFICER ACCORDING TO IBC 2018 SECTION 1704.2.5.1.• APPROVED FABRICATORS MAY PERFORM TESTING NOTED HEREIN EXCEPT THAT NONDESTRUCTIVE TESTING (NDT) SHALL ONLY BE PERFORMED BY PERSONNEL WITH QUALIFICATIONS THAT MEET OR EXCEED THE CRITERIA OF AWS D1.1 SUBCLAUSE 6.14.6 AND AMERICAN SOCIETY FOR NONDESTRUCTIVE TESTING (ASNT) SNT-TC-1A OR ASNT CP-189.</div><div>B. SHOP FABRICATIONS INCLUDED<ul style="list-style-type: none">• SHOP FABRICATED COLD FORMED STEEL ELEMENTS• SHOP FABRICATED STEEL BAR JOISTS</div></div>			

SOILS SPECIAL INSPECTIONS			
ITEM	FREQUENCY	STANDARD	CRITERIA
SUBGRADE			
- EXCAVATION	P	-	VERIFY EXCAVATIONS ARE EXTENDED TO THE PROPER DEPTH AND HAVE REACHED THE PROPER BEARING MATERIAL
- BEARING MATERIAL	P	SOILS REPORT	VERIFY BEARING MATERIAL IS ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY
CONTROLLED FILL			
- PRIOR TO PLACEMENT	P	-	VERIFY SUBGRADE HAS BEEN PROPERLY PREPARED
- PLACEMENT	C	-	VERIFY USE OF PROPER MATERIALS, DENSITIES, COMPACTION, AND LIFT THICKNESSES

SOILS SPECIAL INSPECTION NOTES:

1. SEE CIVIL DRAWINGS AND/OR SPECIFICATIONS FOR ADDITIONAL EARTHWORK AND UTILITY INSPECTION REQUIREMENTS.
2. SEE CIVIL DRAWINGS AND/OR SPECIFICATIONS FOR CLASSIFICATION AND TESTING REQUIREMENTS FOR COMPACTED FILL AND/OR CONTROLLED LOW-STRENGTH MATERIAL.




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STRUCTURAL COLD FORMED STEEL DECK SPECIAL INSPECTIONS			
ITEM	FREQUEN...	STANDARD	CRITERIA
PRIOR TO DECK PLACEMENT			
- VERIFY COMPLIANCE OF MATERIALS (DECK AND ALL DECK ACCESSORIES) WITH CONSTRUCTION DOCUMENTS, INCLUDING PROFILES, MATERIAL PROPERTIES, AND BASE METAL THICKNESS	PERFORM	SDI QA/QC-2011	-
- DOCUMENTACCEPTANCE OR REJECTION OF DECK AND DECK ACCESSORIES	PERFORM	SDI QA/QC-2011	-
PRIOR TO WELDING			
- WELDING PROCEDURE SPECIFICATION (WPS) AVAILABLE	OBSERVE	SDI QA/QC-2011	-
- MANUFACTURER CERTIFICATIONS OF WELDING CONSUMABLES AVAILABLE	OBSERVE	SDI QA/QC-2011	-
- MATERIAL IDENTIFICATION (TYPE/GRADE)	OBSERVE	SDI QA/QC-2011	-
- CHECKING WELDING EQUIPMENT	OBSERVE	SDI QA/QC-2011	-
PRIOR TO MECHANICAL FASTENING (SCREWS AND PAFs)			
- MANUFACTURER INSTALLATION INSTRUCTIONS ARE AVAILABLE FOR MECHANICAL FASTENERS	OBSERVE	SDI QA/QC-2011	-
- PROPER TOOLS AVAILABLE FOR FASTENER INTALLATIONS	OBSERVE	SDI QA/QC-2011	-
- PROPER STORAGE FOR MECHANICAL FASTENERS	OBSERVE	SDI QA/QC-2011	-
DURING DECK INSTALLATION			
DURING WELDING DECK CONNECTION INSTALLATION			
- USE OF QUALIFIED WELDERS		SDI QA/QC-2011	-
- CONTROL AND HANDLING OF WELDING CONSUMABLES	OBSERVE	SDI QA/QC-2011	-
- ENVIRONMENTAL CONDITIONS (WIND SPEED, MOISTURE, TEMPERATURE)	OBSERVE	SDI QA/QC-2011	-
- WPS FOLLOWED	OBSERVE	SDI QA/QC-2011	-
DURING MECHANICAL DECK CONNECTION INSTALLATION			
- FASTENING (SCREWS AND PAFs)	OBSERVE	SDI QA/QC-2011	-
- FASTENERS ARE POSITIONED AS REQUIRED	OBSERVE	SDI QA/QC-2011	-
- FASTENERS ARE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS	OBSERVE	SDI QA/QC-2011	-
AFTER DECK PLACEMENT			
- VERIFY COMPLIANCE OF DECK AND ALL DECK ACCESSORIES INSTALLATION COMPLY WITH CONSTRUCTION DOCUMENTS	PERFORM	SDI QA/QC-2011	-
- VERIFY DECK MATERIALS ARE REPRESENTED BY THE MILL CERTICATIONS THAT COMPLY WITH THE CONSTRUCTION DOCUMENTS	PERFORM	SDI QA/QC-2011	-
- DOCUMENT ACCEPTANCE OR REJECTIONOF THE INSTALLATION OF DECK AND DECK ACCESSORIES	PERFORM	SDI QA/QC-2011	VERIFY CUTS OR NOTCHES THROUGH DECK ARE REPAIRED
AFTER WELDING			
- VERIFY SIZE AND LOCATION OF WELDS, INCLUDING SUPPORT, SIDELAP, AND PERIMETER...	PERFORM	AWS D1.3, SDI C, SDI NC, SDI...	-
- WELDS MEET VISUAL ACCEPTANCE CRITERIA	PERFORM	AWS D1.3, SDI C, SDI NC, SDI...	-
- VERIFY REPAIR ACTIVITIES	PERFORM	AWS D1.3, SDI C, SDI NC, SDI RD	VERIFY WELDED AREAS ARE TREATED WITH APPROVED TREATMENT TO MATCH CORROSION RESISTANCE OF AFFECTED AREA
- DOCUMENT ACCEPTANCE OR REJECTION OF WELDS	PERFORM	AWS D1.3, SDI C, SDI NC, SDI...	-
AFTER MECHANICAL FASTENING (SCREWS AND PAFs)			
- CHECK SPACING, TYPE, DIAMETER, AND INSTALLATION OF SUPPORT, SIDELAP, AND PERFORM PERIMETER FASTENERS	PERFORM	SDI C, SDI NC, SDI RD, ICC-ES REPORTS	VERIFY SCREWS ADEQUATLY PENETRATE BASE MATERIAL (3 THREADS MIN). NO POPPED SCREW HEADS OR STRIPPED SCREWS ARE PERMITTED. ALL DAMAGE SCREWS SHALL BE REPLACED. VERIFY PAFs ARE FULLY DRIVEN
- VERIFY REPAIR ACTIVITIES	PERFORM	SDI C, SDI NC, SDI RD	-
- DOCUMENT ACCEPTANCE OR REJECTION OF MECHANICAL FASTENERS	PERFORM	SDI C, SDI NC, SDI RD	VERIFY MATERIALS HAVE BEEN DRAWN TOGETHER

STRUCTURAL STEEL TESTING			
ITEM	FREQUENCY	STANDARD	CRITERIA/REMARKS
WELDING			
- SHEAR CONNECTOR, HEADED ANCHOR STUDS, DEFORMED ANCHOR STUDS, THREADED STUDS	2 BEND TESTS AT START OF EACH SHIFT, 1% BEND TEST, 100% RING TEST	AWS D1.1 SECTION 7	BEND TEST: PER AWS D1.1 BENT STUD (TORQUE TEST FOR THREADED STUDS) ACCEPTANCE CRITERIA: RING TEST: STRIKE WITH HAMMER. IF THE STUD RINGS, STUD IS ACCEPTABLE. IF STUD DOES NOT RING, PERFORM BEND TEST


POST-INSTALLED ANCHOR/REINFORCING STEEL TESTING			
ITEM	FREQUENCY	STANDARD	CRITERIA
EXPANSION ANCHORS, SLEEVE ANCHORS, SCREW ANCHORS			
- TORQUE TEST	100%	-	TEST ANCHOR WITH CALIBRATED TORQUE WRENCH TO 100% OF THE INSTALLATION TORQUE NOTED IN ICC-ES REPORT. ATTAIN SPECIFIED TORQUE WITHIN 1/2 TURN OF THE NUT
ADHESIVE ANCHORS, REINFORCING STEEL ANCHORED INTO HARDENED CONCRETE			
- TENSION TEST	FIRST 3 AND 1% OF REMAINING	ASTM E488 STATIC TENSION	TEST THE INSTALLATION OF THE FIRST 3 OF EACH TYPE, BASE MATERIAL, AND POSITION (DOWN, HORIZONTAL, OVERHEAD). OBSERVE ASTM E488 MINIMUM EDGE DISTANCES FOR DETERMINING TEST LOCATIONS. SUBMIT PROPOSED TEST LOCATIONS AND REQUESTS FOR REQUIRED TENSION TEST LOAD VALUES TO...

POST-INSTALLED ANCHORS/REINFORCING STEEL SPECIAL INSPECTIONS			
ITEM	FREQUENCY	STANDARD	CRITERIA
EXPANSION ANCHORS, SLEEVE ANCHORS, SCREW ANCHORS			
- PRIOR TO START OF WORK	-	ICC-ES REPORT	REVIEW CONTRACTOR'S INSTALLATION PROCEDURE
- PRIOR TO INSTALLATION OF ANCHOR	EACH ANCHOR	ICC-ES REPORT	VERIFY TYPE, DIAMETER, LENGTH, FINISH, AND BASE MATERIAL. VERIFY SOLID GROUTED AREA AROUND ANCHORS IN GROUTED MASONRY. VERIFY MAXIMUM IMPACT WRENCH TORQUE RATING FOR SCREW ANCHORS
- DURING INSTALLATION OF ANCHOR	C	ICC-ES REPORT	CONTINUOUS INSPECTION REQUIRED REGARDLESS IF PERIODIC INSPECTION IS PERMITTED BY ICC-ES REPORT. VERIFY HOLE DIMENSIONS, HOLE CLEANING, ANCHOR EMBEDMENT, EDGE DISTANCES AND SPACING
- AFTER INSTALLATION OF ATTACHED ASSEMBLY	100% VISUAL	-	VERIFY NUMBER, EDGE DISTANCES, AND ANCHOR FLUSH WITH AND PERPENDICULAR TO THE RECEIVING SURFACE
ADHESIVE ANCHORS, REINFORCING STEEL ANCHORED INTO HARDENED CONCRETE			
- PRIOR TO START OF WORK	-	ICC-ES REPORT	REVIEW CONTRACTOR'S INSTALLATION PROCEDURE
- PRIOR TO INSTALLATION OF ANCHOR	EACH ANCHOR	ICC-ES REPORT	VERIFY TYPE, DIAMETER, LENGTH, FINISH, AND BASE MATERIAL. VERIFY SOLID GROUTED AREA AROUND ANCHORS IN GROUTED MASONRY
- DURING INSTALLATION OF ANCHOR	C	ICC-ES REPORT	CONTINUOUS INSPECTION REQUIRED REGARDLESS IF PERIODIC INSPECTION IS PERMITTED BY ICC-ES REPORT. VERIFY HOLE DIMENSIONS, HOLE CLEANING, ANCHOR EMBEDMENT, EDGE DISTANCES AND SPACING
- AFTER INSTALLATION OF ATTACHED ASSEMBLY	100% VISUAL	-	VERIFY NUMBER, EDGE DISTANCES, AND ANCHOR FLUSH WITH AND PERPENDICULAR TO THE RECEIVING SURFACE
- CURE TIME	100% VISUAL	-	VERIFY FULL CURE TIME HAS ELAPSED PRIOR TO APPLICATION OF TORQUE OR LOAD TO ANCHOR

STEEL JOIST AND JOIST GIRDER SPECIAL INSPECTIONS			
ITEM	FREQUENCY	STANDARD	CRITERIA
INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS			
- END CONNECTIONS- WELDING OR BOLTED	P	SJI - K, LH/DLH, JG	-
- BRIDGING-HORIZONTAL OR DIAGONAL	P	SJI - K, LH/DLH, JG	VERIFY BRIDGING IS INSTALLED AND ANCHORED AS INDICATED IN SHOP DRAWINGS

STRUCTURAL STEEL INSPECTIONS			
ITEM	INSPECTION TASK	STANDARD	CRITERIA/REMARKS
- PRIOR TO FABRICATION OR ERECTION	PERFORM	AISC 360, CHAPTER N	REVIEW MATERIAL TEST REPORTS AND CERTIFICATIONS FOR STRUCTURAL STEEL, FASTENERS, ANCHOR RODS, HEADED STUD ANCHORS
PRIOR TO WELDING			
- REVIEW MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AND WELDING PROCEDURE SPECIFICATIONS	PERFORM	AISC 360, CHAPTER N	-
- FIT UP OF WELDS, INCLUDING JOINT GEOMETRY, AND CONFIGURATIONS AND FINISH OF ACCESS HOLES	OBSERVE	AISC 360, CHAPTER N	-
- MATERIAL IDENTIFICATION	OBSERVE	AISC 360, CHAPTER N	-
- WELDER IDENTIFICATION SYSTEM	OBSERVE	AISC 360, CHAPTER N	-
DURING WELDING			
- USE OF QUALIFIED WELDERS	OBSERVE	AISC 360, CHAPTER N	-
- CONTROL AND HANDLING OF WELDING CONSUMABLES	OBSERVE	AISC 360, CHAPTER N	-
- NO WELDING OVER CRACKED TACK WELDS	OBSERVE	AISC 360, CHAPTER N	-
- ENVIRONMENTAL CONDITIONS, AND WPS FOLLOWED	OBSERVE	AISC 360, CHAPTER N	-
- WELDING TECHNIQUES - SINGLE PASS WELDS	OBSERVE	AISC 360, CHAPTER N	-
- WELDING TECHNIQUES - MULTI-PASS WELDS	OBSERVE	AISC 360, CHAPTER N	-
AFTER WELDING			
- WELDS CLEANED	OBSERVE	AISC 360, CHAPTER N	-
- SIZE, LENGTH, AND LOCATION OF WELDS	PERFORM	AISC 360, CHAPTER N	-
- WELDS MEET VISUAL ACCEPTANCE CRITERIA	PERFORM	AISC 360, CHAPTER N, AWS D1.1	WHERE INSPECTOR OBSERVES QUESTIONABLE WELDS, NON-DESTRUCTIVE TESTING SHALL BE PERFORMED
- ARC STRIKES	PERFORM	AISC 360, CHAPTER N	-
- K-AREA	PERFORM	AISC 360, CHAPTER N	-
- BACKING AND WELD TABS REMOVED WHERE REQUIRED.	PERFORM	AISC 360, CHAPTER N	-
- REPAIR ACTIVITIES	PERFORM	AISC 360, CHAPTER N	-
- PLACEMENT AND INSTALLATION OF HEADED STUD ANCHORS	PERFORM	AISC 360, CHAPTER N	-
- DOCUMENT ACCEPTANCE OR REJECTION OF WELDED MEMBER OR JOINT	PERFORM	AISC 360, CHAPTER N	-
-	PERFORM	AISC 341, CHAPTER J	-
PRIOR TO BOLTING			
- REVIEW MANUFACTURER CERTIFICATIONS FOR FASTENER MATERIALS	PERFORM	AISC 360, CHAPTER N	-
- FASTENERS MARKS IN ACCORDANCE WITH ASTM REQUIREMENTS	OBSERVE	AISC 360, CHAPTER N	-
- PROPER FASTENERS AND BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	OBSERVE	AISC 360, CHAPTER N	-
- CONNECTING ELEMENTS MEET REQUIREMENTS, INCLUDING HOLE REPARATION AND FAYING SURFACE	OBSERVE	AISC 360, CHAPTER N	-
- PRE-INSTALLATION VERIFICATION TESTING	OBSERVE	AISC 360, CHAPTER N	NOT APPLICABLE FOR SNUG TIGHT JOINTS
- PROPER STORAGE FOR FASTENER...	OBSERVE	AISC 360, CHAPTER N	-
DURING BOLTING			
- FASTENERS PLACED IN ALL HOLES AND POSITIONED AS REQUIRED	OBSERVE	AISC 360, CHAPTER N	-
AFTER BOLTING			
- DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	PERFORM	DOCUMENT ACCEPTANCE OR REJECTION MEMBER OR JOINT	-

OBSERVE - OBSERVE THESE ITEMS ON A RANDOM BASIS
PERFORM - THESE INSPECTIONS SHALL BE PERFORMED FOR EACH WELDED CONNECTION, EACH BOLTED CONNECTION, AND EACH ITEM, PRIOR TO ACCEPTANCE




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ROCKY MOUNTAIN
REGION

STAMPS, LOGOS, AND
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PROJECT NAME

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OFFICE**

ASPEN / SOPRIS RANGER DISTRICT

DRAWING TITLE

**QUALITY
ASSURANCE**

ARCHIVE
NO. 100% CONSTRUCTION DOCUMENTS

DESIGNER
GR

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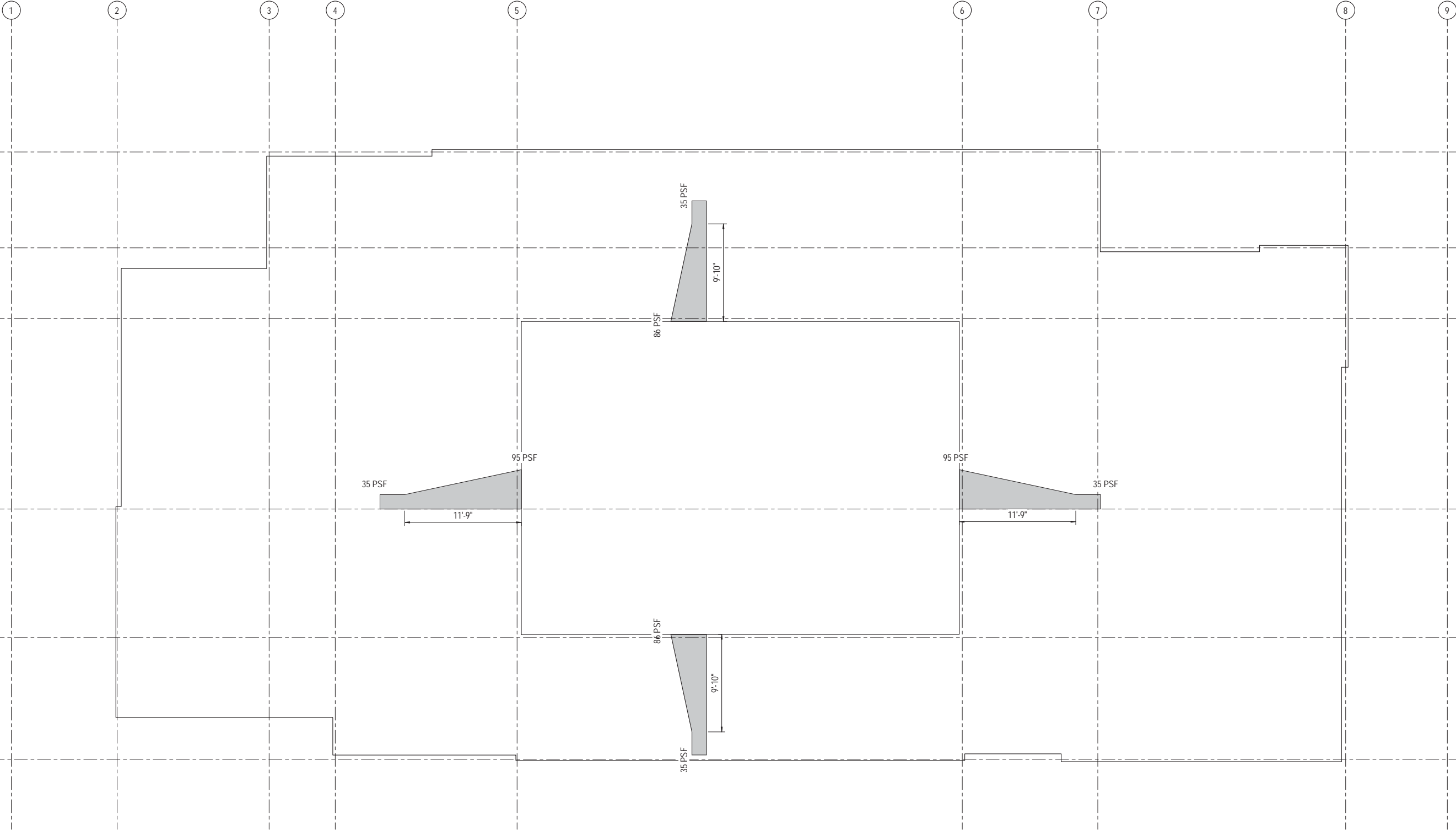
DATE
07/09/2020

SUB SHEET
NO.


S011

SHEET
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SNOW LOAD MAP NOTE:
1) ROOF MEMBERS AT THE LOW ROOF ARE SIZED FOR 40 PSF MINIMUM AND DRIFTING CASE SHOWN ABOVE. MEMBERS AT UPPER ROOF ARE SIZED FOR 40 PSF MINIMUM



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**LOW ROOF
SNOW LOAD
MAP**

ARCHIVE NO. 100% CONSTRUCTION DOCUMENTS	
DESIGNER GR	SUB SHEET NO. S020
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FOUNDATION PLAN NOTES

1) GENERAL:

1A) SEE S0 SERIES SHEETS FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
1B) SEE S3 SERIES SHEETS FOR TYPICAL CONCRETE DETAILS.

2) GRADE BEAMS / STEM WALLS:

2A) SEE PLAN FOR DIMENSIONED LOCATIONS OF GRADE BEAMS.
2B) SEE 6/S303 FOR LIMITS OF GRADE BEAM/WALL POUR LENGTHS.
2C) SEE 9/S300 FOR TYPICAL PENETRATIONS THROUGH GRADE BEAMS STEM WALLS
2D) REINFORCING

- SEE 5/S302 FOR GRADE BEAM HORIZONTAL CORNER AND INTERSECTION REINFORCING

- SEE S530 FOR TYPICAL PILASTER REINFORCING

3) SLAB-ON-GRADE:

3A) SEE DETAIL 5/S301 FOR TYPICAL SLAB-ON-GRADE DETAIL.
3B) SEE DETAIL 4/S301 FOR TYPICAL SLAB-ON-GRADE LAYOUT/INFORMATION.
3C) SEE ARCH AND MECH DRAWINGS FOR SLAB SLOPES, DEPRESSIONS, FILL, PADS, AND CURBS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
3D) SEE ARCH DRAWINGS FOR VAPOR RETARDER LOCATIONS. INSTALL VAPOR RETARDER DIRECTLY UNDER SLAB PER RECOMMENDATIONS OF PCA AND ACI 302.1R-04. TAKE PRECAUTIONS TO MINIMIZE SLAB CURLING. GRIND SLAB TO ACHIEVE SPECIFIED FLOOR FLATNESS AND LEVELNESS VALUES.
3E) SLABS-ON-GRADE WITH EXTERIOR EXPOSURE, SHALL BE REINFORCED WITH EPOXY COATED (EC) REINFORCING.
3F) SEE "CONCRETE GENERAL NOTES" FOR JOINTING REQTS AT SLAB-ON-GRADE.

4) COLUMNS/PILASTERS:

4A) ALL COLUMNS/PILASTERS ARE CENTERED ON THE INTERSECTION OF GRIDS BELOW THE SUPPORTED COLUMN UNLESS DIMENSIONED OTHERWISE ON PLAN.

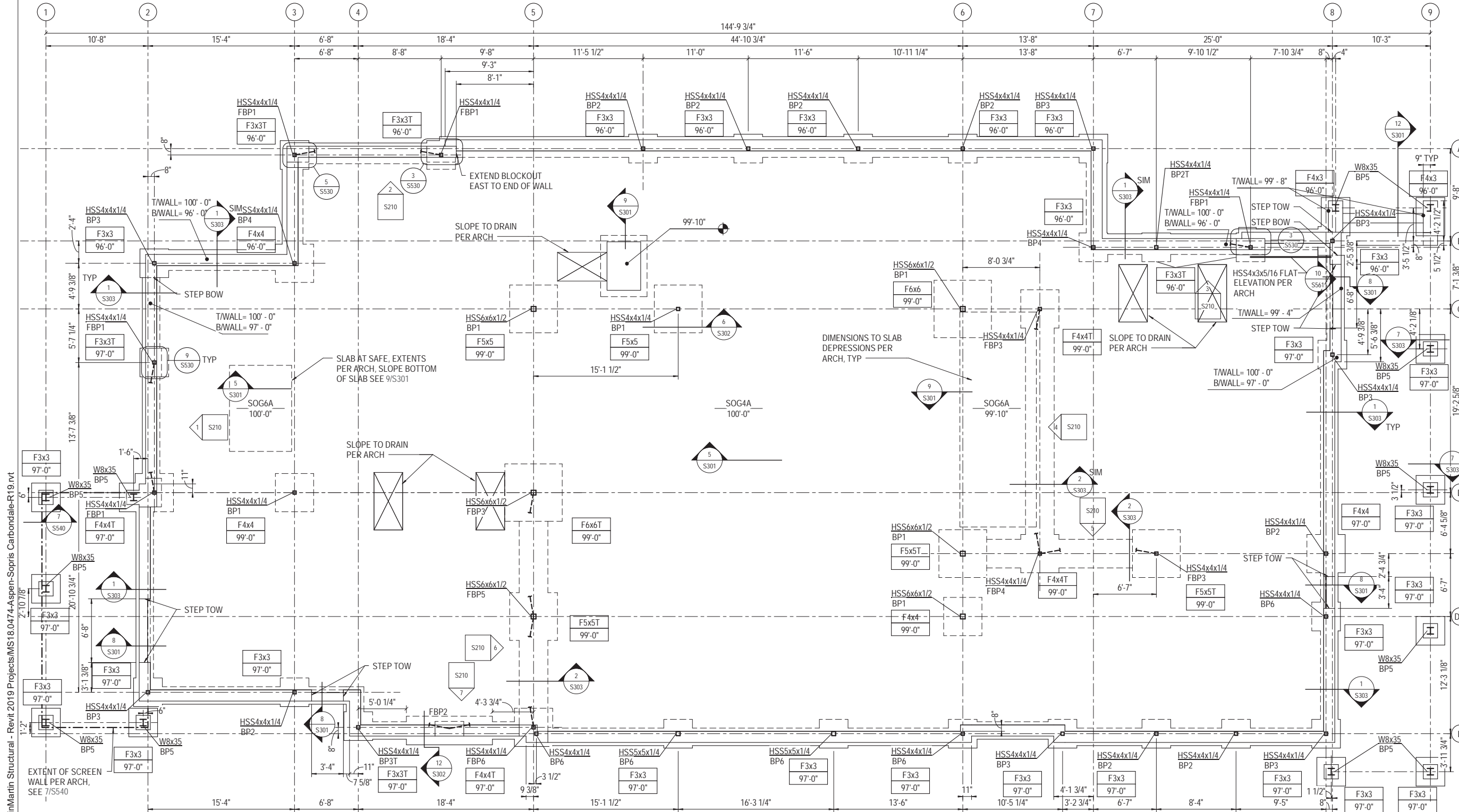
5) MISCELLANEOUS NOTES:

5A) SEE SHEET S3.00 FOR MISCELLANEOUS CONCRETE DETAILS AND INFORMATION INCLUDING CONCRETE LAP SPICE SCHEDULE, TYPICAL HOOK DETAILS, AND CLEAR COVER REQUIREMENTS.

5B) CONTRACTOR TO FIELD LOCATE ALL UTILITIES BELOW GRADE. CONTRACTOR SHALL NOTIFY CONTRACTING OFFICER BY DIMENSIONED DRAWING OF LOCATIONS WHERE UTILITIES CONFLICT WITH FOUNDATION INSTALLATION. CONTRACTOR SHALL MAKE ALLOWANCE FOR THE RESOLUTION OF SUCH DISCOVERIES PRIOR TO PROCEEDING WITH EFFECTED FOUNDATIONS.

6) SUPPORTING STRATUM:

6A) ALL EXISTING FILL MATERIAL MUST BE REMOVED TO NATIVE SOILS. NEW FOUNDATIONS MUST BEAR ON NATIVE SOILS OR ENGINEERED FILL. EXTENTS OF EXCAVATION AND FILL MATERIAL BENEATH FOUNDATION SHALL BE PLACED AND COMPACTED AS NOTED IN THE EARTH MOVING SPECIFICATION SECTION 312000. DEPTH OF SOILS TO BE REMOVED VARY. COMPETANT BEARING SOIL ELEVATION TO BE VERIFIED BY GEOTECHNICAL ENGINEER.



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FOUNDATION PLAN
3/16" = 1'-0"
NORTH



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**FOUNDATION
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S101

SHEET

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OF

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STEEL ROOF FRAMING PLAN NOTES:

1) GENERAL:

1A) SEE S0 SERIES SHEETS FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
1B) SEE S5 SERIES SHEETS FOR TYPICAL STEEL DETAILS.

2) COLUMNS:

2A) ALL COLUMNS ARE CENTERED ON THE INTERSECTION OF GRIDS UNLESS DIMENSIONED OTHERWISE ON PLAN.

3) STEEL BEAMS:

3A) STEEL BEAMS SHALL BE EQUALLY SPACED BETWEEN GRIDLINES/COLUMNS/GIRDERS UNLESS DIMENSIONED OTHERWISE.

3B) TOP OF STEEL BEAMS SHALL EQUAL BOTTOM OF METAL DECK ELEVATION OR BOTTOM OF JOIST BEARING SEATS, SEE PLANS AND DETAILS FOR ADDITIONAL INFORMATION.

- TOP OF STEEL INDICATED THUS ON PLAN: (XXX'-XX")

3C) HSS REQUIRED AT ALL BRACE FRAMES AND DRAG BEAM, SEE 6/S511

3D) STEEL BEAM CONNECTION, SEE 3/S500 UNO

4) STEEL BAR JOISTS:

4A) STEEL BAR JOISTS SHALL BE EQUALLY SPACED BETWEEN GRIDLINES / COLUMNS / GIRDERS UNLESS DIMENSIONED OTHERWISE.

4B) SEE S020 FOR JOIST LOADING AND DESIGN CRITERIA FOR NONSTANDARD JOISTS NOTED AS "SPECIAL" OR "SP".

4C) TOP OF JOISTS SHALL EQUAL BOTTOM OF METAL DECK ELEVATION.

- SEE PLAN FOR BOTTOM OF DECK ELEVATION

4D) JOIST BEARINGS SHALL HAVE STANDARD BEARING LENGTHS PER SJI SPECIFICATIONS UNLESS NOTED OTHERWISE.

5) METAL DECK:

5A) SEE SHEET S520 FOR TYPICAL METAL DECK DETAILS.

5B) SEE DETAIL 9/S520 FOR DECK SUPPORT FRAMING REQUIRED AT DECK PENETRATIONS WITH ONE SIDE EXCEEDING 10".

6) MECHANICAL AND ELECTRICAL EQUIPMENT

6A) SEE S512 FOR REQUIREMENTS AT MECHANICAL AND ELECTRICAL EQUIPMENT.

6B) CONTRACTOR TO VERIFY ALL EQUIPMENT WEIGHTS, SIZES, LOCATIONS, AND OPENINGS REQUIRED WITH MECHANICAL CONTRACTOR. CONTRACTOR SHALL NOTIFY THE CONTRACTING OFFICER OF ANY CHANGES IN THE WEIGHTS OR LOCATIONS SHOWN ON THE DRAWINGS. SUCH CHANGES IN CONDITIONS SHALL BE SUBJECT TO STRUCTURAL ENGINEER REVIEW. RE: MECHANICAL AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL OPENINGS NOT SHOWN.

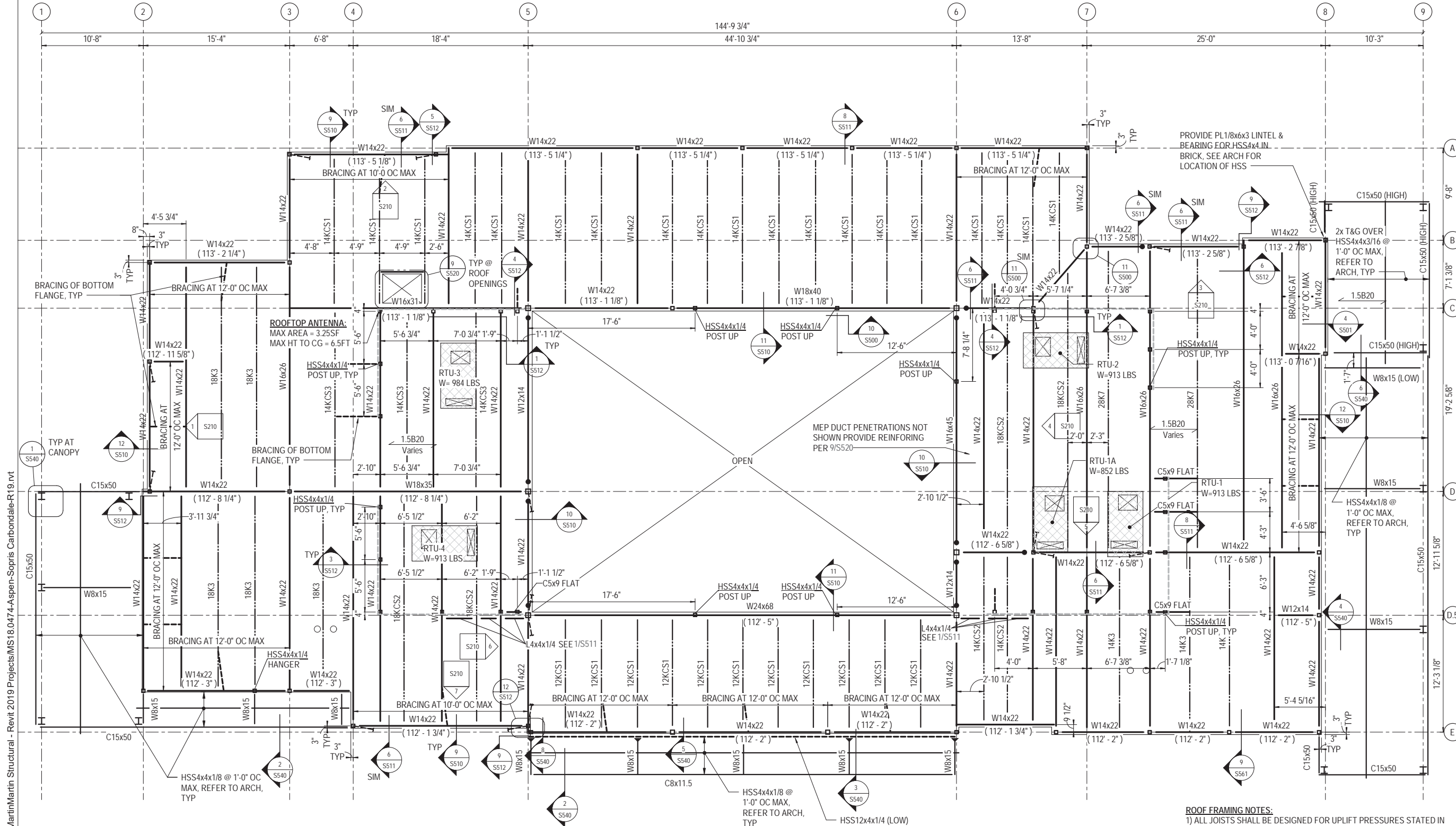
6C) MECHANICAL EQUIPMENT WEIGHTS, IN KIPS, NOTED ON PLAN THUS: XXK.

- MECHANICAL EQUIPMENT WEIGHT SHALL BE EVENLY DISTRIBUTED TO ALL SUPPORTING BEAMS / JOISTS.

- EQUIPMENT TO BE PLACED TO BEAR ON TWO BEAMS / JOISTS MINIMUM. EACH SUPPORTING JOIST AND/OR JOIST GIRDER SHALL BE DESIGNED TO SUPPORT A CONCENTRATED LOAD FROM THE MECHANICAL EQUIPMENT. THIS LOAD IS IN ADDITION TO THE JOIST UNIFORM LOADS OR JOIST GIRDER POINT LOADS INDICATED.

- SEE DETAIL 3/S511 FOR JOIST CHORD SUPPORT AT MECHANICAL EQUIPMENT.

- ALL OPENINGS IN METAL DECK GREATER THAN 10 INCHES IN ANY DIRECTION SHALL BE SUPPORTED ON ALL FOUR SIDES BY A STEEL FRAME SPANNING BETWEEN DECK SUPPORTS. SEE 20/S5.31 FOR TYPICAL FRAMING AT ROOF DECK OPENINGS.



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**UPPER ROOF
PLAN**

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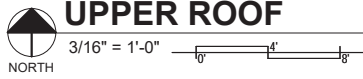
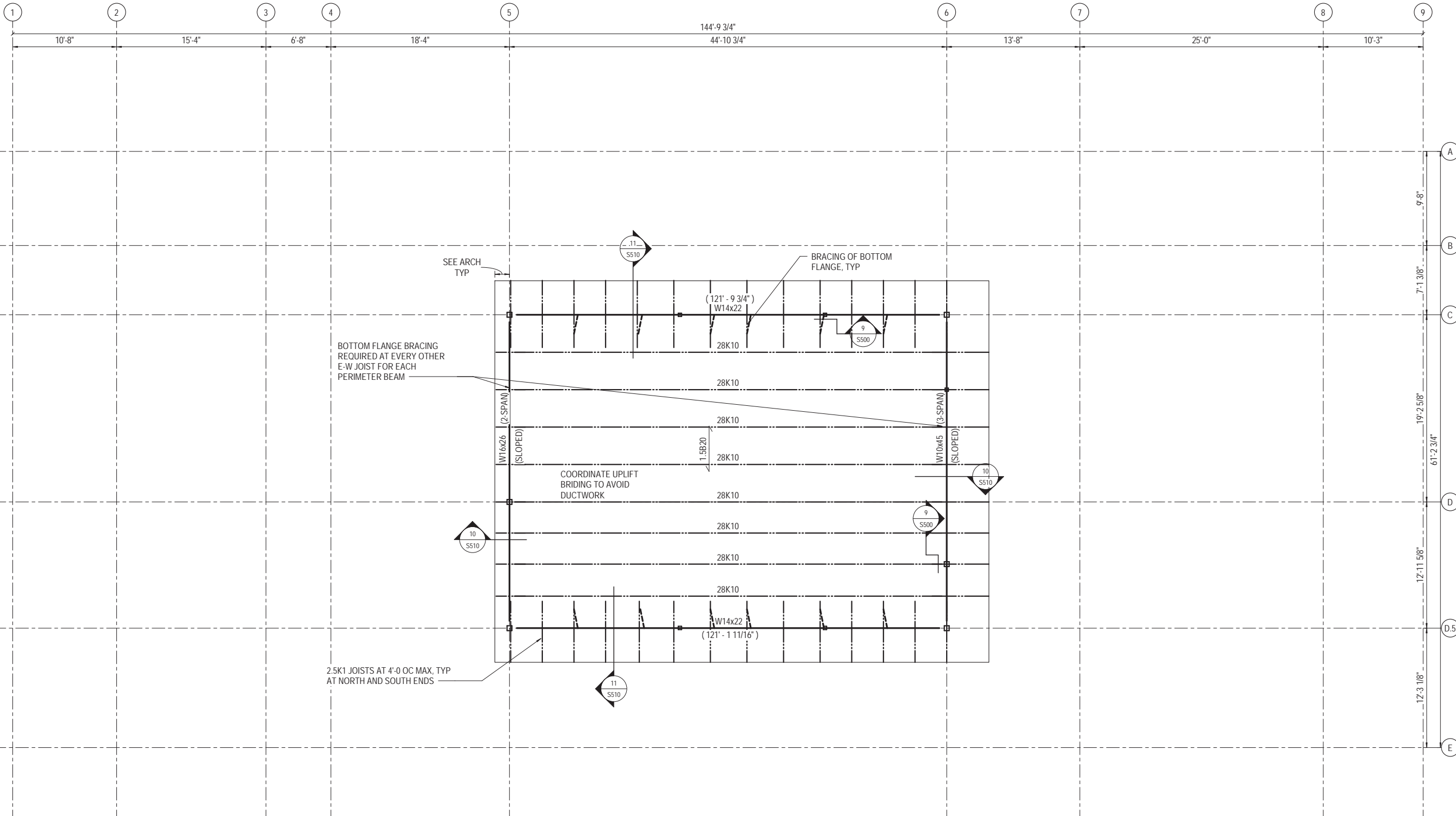
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SUB SHEET
NO.

S103

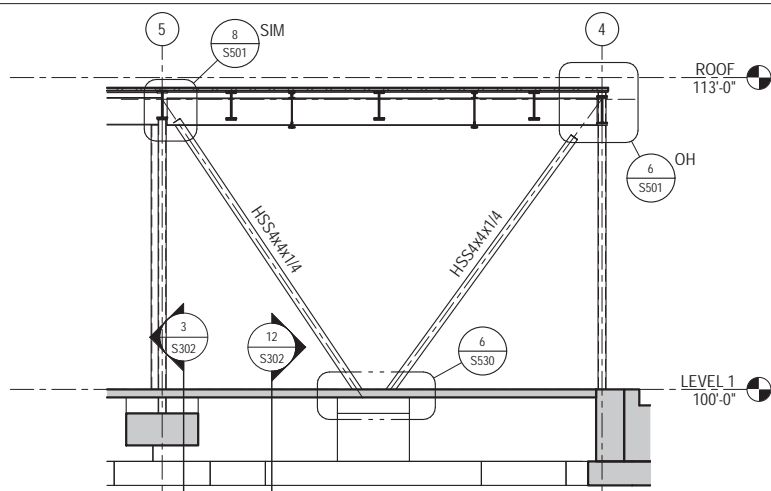
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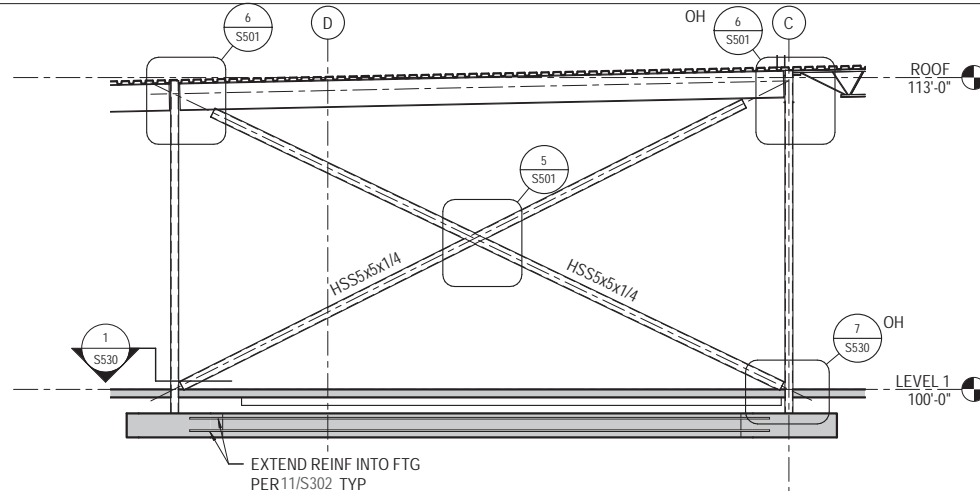


ROOF FRAMING NOTES:
1) ALL JOISTS SHALL BE DESIGNED FOR A UPLIFT PRESSURES STATED IN
DESIGN CRITERIA ON S002

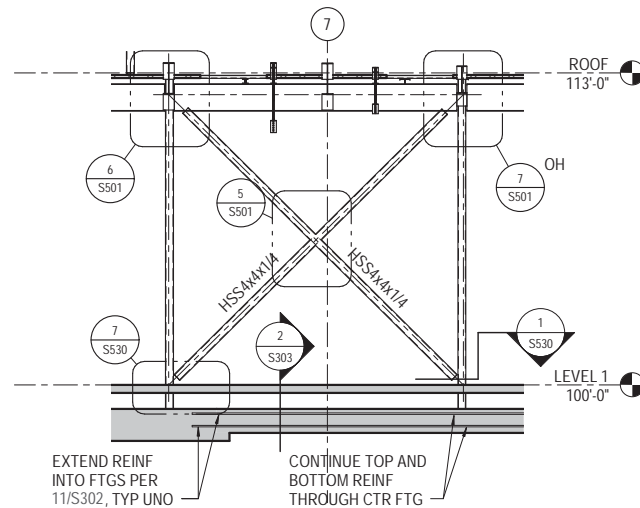
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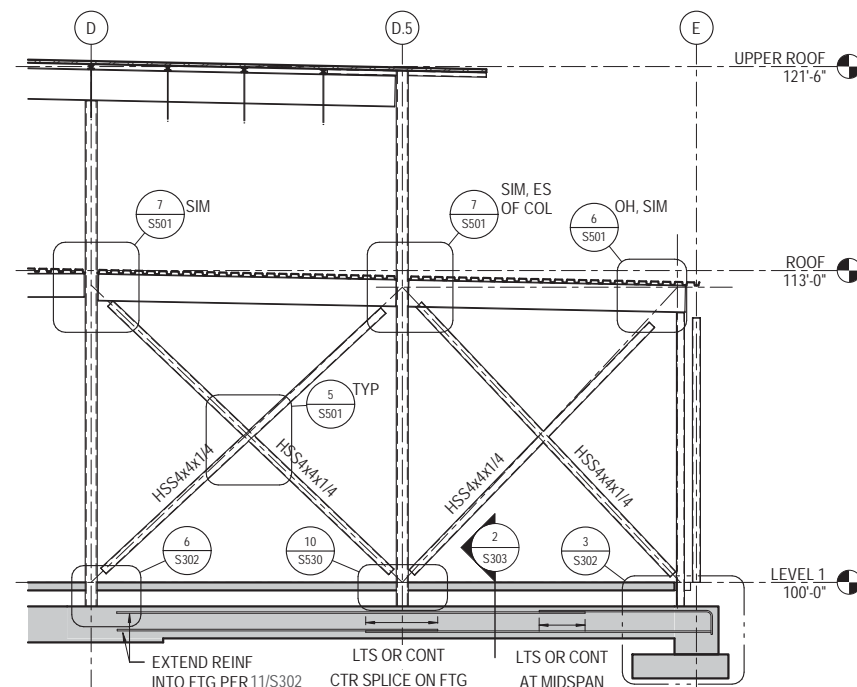
7 BRACE ELEVATION GRID E & 4-5
1/4" = 1'-0"



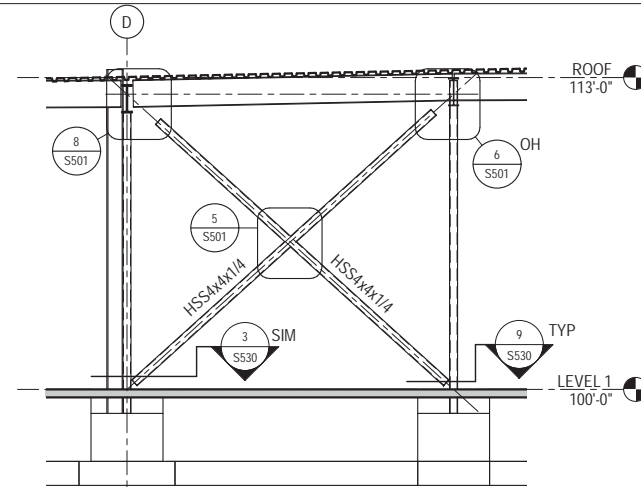
4 BRACE ELEVATION GRID 6.6 C-B
1/4" = 1'-0"



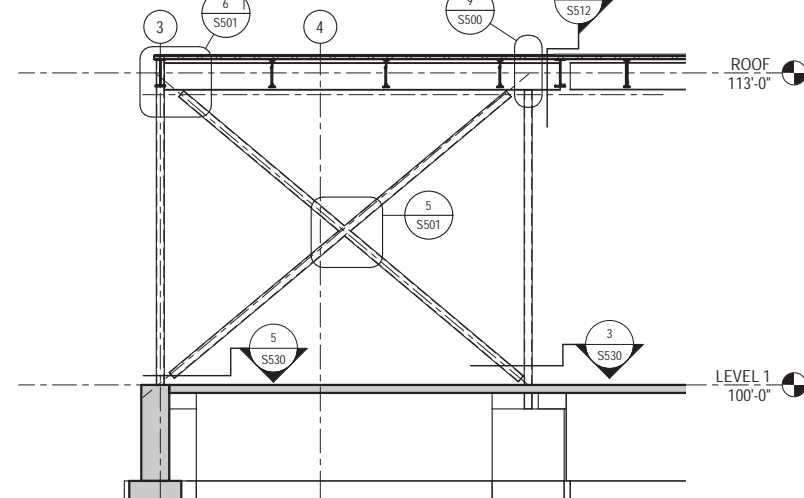
5 BRACE ELEVATION GRID C.8 6-8
1/4" = 1'-0"



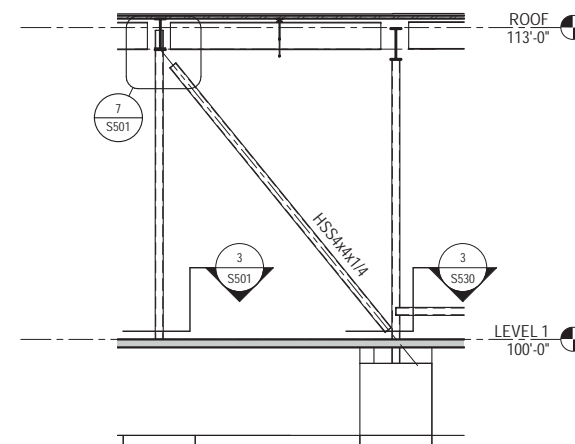
6 BRACE ELEVATION GRID 5 & C-F
1/4" = 1'-0"



1 BRACE ELEVATION GRID 2 & C-D
1/4" = 1'-0"



2 BRACE ELEVATION GRID A & 3-5
1/4" = 1'-0"



3 BRACE ELEVATION GRID A.8 & 7-8
1/4" = 1'-0"



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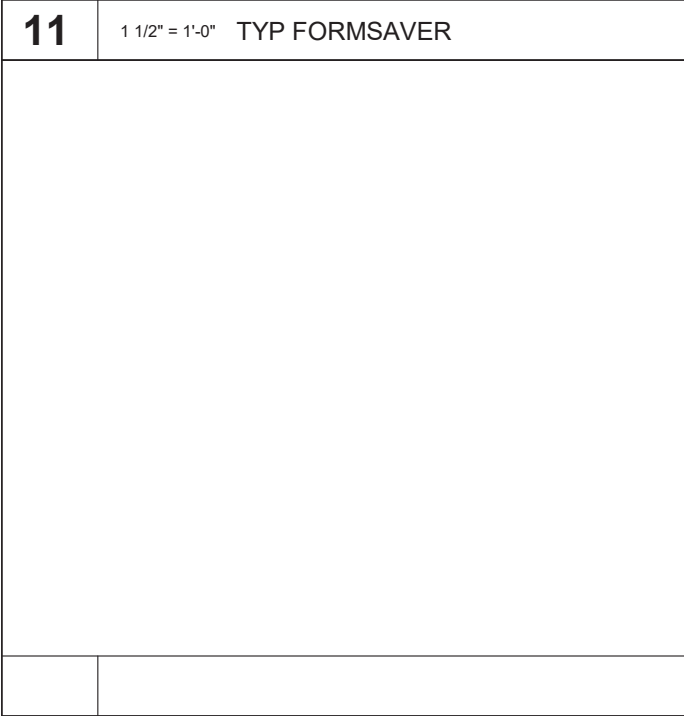
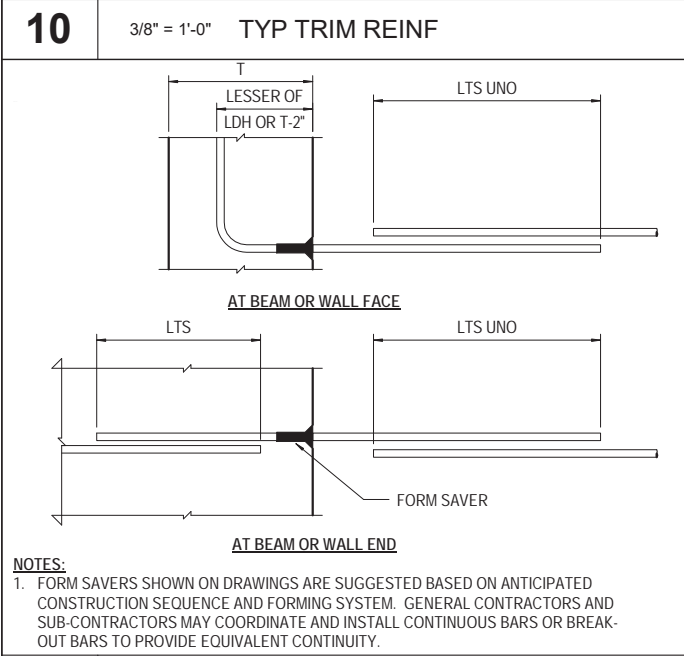
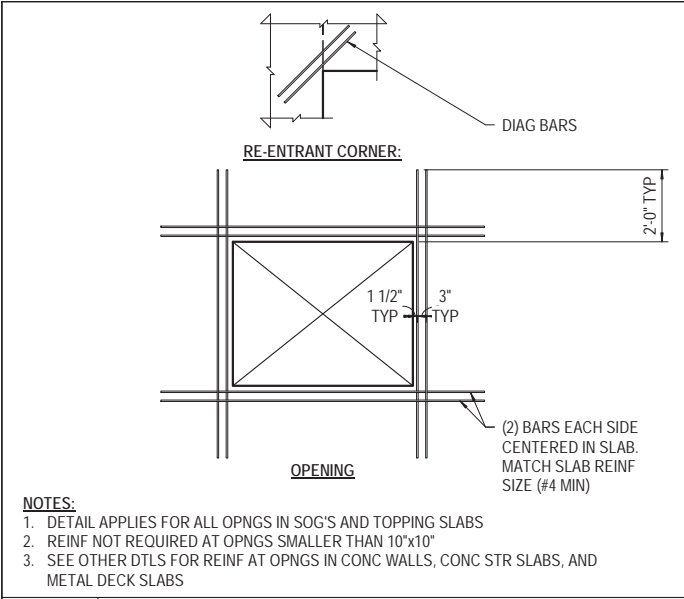
ASPEN / SOPRIS RANGER DISTRICT

DRAWING TITLE
**BRACE
ELEVATIONS**

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DESIGNER GR	SUB SHEET NO.
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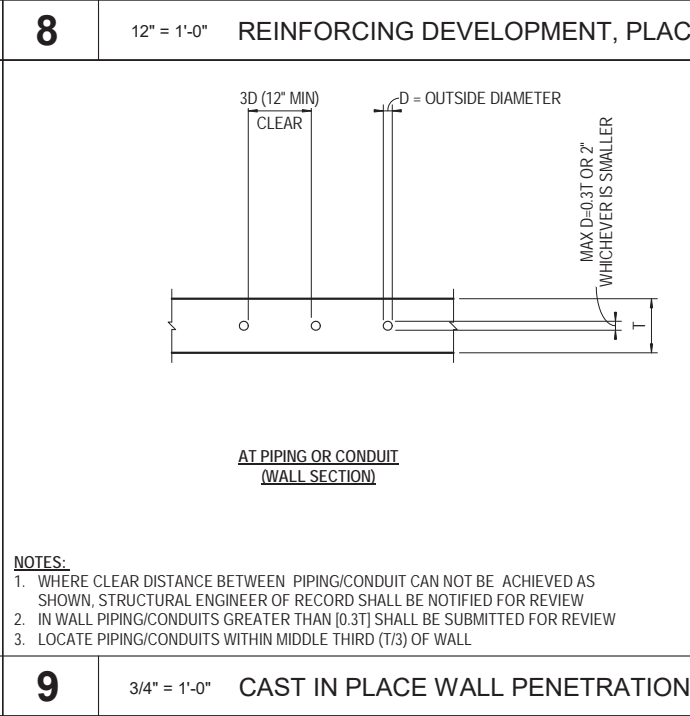
REBAR COVER TABLE						
CASE						COVER (IN)
CONCRETE PLACED AGAINST EARTH						3
CONCRETE PLACED IN FORMS, EXPOSED TO WEATHER OR EARTH						2
CONCRETE PLACED ON VOID FORMS WITH MASONITE OR PLYWOOD COVERING						2
COLUMNS, GIRDERS, AND BEAMS						1 1/2
JOISTS						1 1/2
SLABS OR WALLS NOT EXPOSED TO EARTH OR WEATHER						1

- GENERAL NOTES:**
1. LENGTHS SPECIFICALLY DETAILED ON DRAWINGS SHALL GOVERN IN LIEU OF LAP LENGTHS SCHEDULED
 2. ABBREVIATIONS:
 - A. 'LCE' = COMPRESSION EMBEDMENT LENGTH
 - B. 'LCS' = COMPRESSION LAP SPlice LENGTH
 - C. 'LDH' = HOOK DEVELOPMENT LENGTH
 - D. 'LTE' = TENSION EMBEDMENT LENGTH
 - E. 'LTS' = TENSION LAP SPlice LENGTH
 3. 'TOP' BARS ARE HORIZONTAL BARS PLACED SUCH THAT MORE THAN 12 IN OF FRESH CONCRETE IS CAST BELOW THE BAR
 4. CLEAR COVER IS DEFINED FROM THE NEAREST FACE OF CONCRETE TO THE BAR BEING DEVELOPED OR SPICED
 5. UNLESS NOTED OTHERWISE, ALL HOOK BARS SHALL EXTEND TO THE FAR FACE LESS 2" COVER
 6. IF A NOTE OR DETAIL CALLS FOR A BAR TO BE EMBEDDED Ld (DEVELOPMENT LENGTH) INTO CONCRETE, THIS SHALL CORRESPOND TO A 'LTE' LENGTH
 7. IF A NOTE OR DETAIL REQUIRES A BAR TO HAVE A DEVELOPMENT OR LAP LENGTH BUT INSUFFICIENT DIMENSION IS AVAILABLE FOR THE LENGTH SCHEDULED, EXTEND BAR TO FAR FACE OF CONCRETE LESS 2" COVER AND HOOK

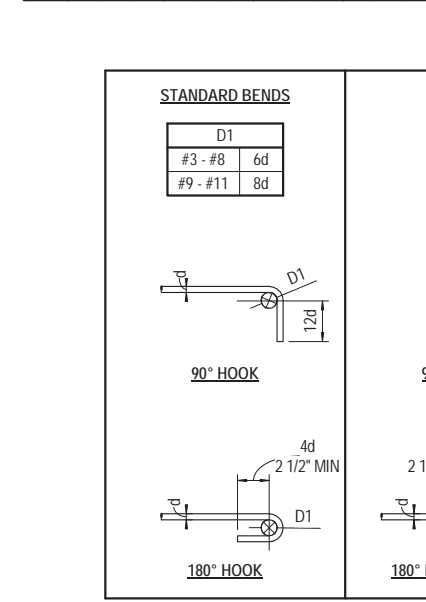
- ADJUSTMENTS TO GIVEN LENGTHS:**
1. IF REINFORCING IS SPECIFIED AS EPOXY COATED, INCREASE SCHEDULED LENGTHS BY 50%
 2. IF LIGHTWEIGHT AGGREGATE IS SPECIFIED, INCREASE SCHEDULED LAP BY LENGTHS 30%
 3. SCHEDULED LENGTHS ASSUME:
 - A. CLEAR COVER IS AS INDICATED IN SCHEDULE
 - B. CLEAR SPACING BETWEEN BARS IS GREATER THAN 2x CLEAR COVER
 - C. IF EITHER CONDITION A OR B IS NOT MET FOR A GIVEN BAR, INCREASE LENGTHS BY 50%
 4. LENGTHS NOTED BASED ON Fy = 60,000 PSI.
 - A. FOR OTHER YIELD STRENGTHS, MULTIPLY LENGTHS NOTED BY Fy/60,000

- LAP SPlice NOTES:**
1. ALL SPICES SHALL BE WIRED IN CONTACT
 2. ALL SPICES ARE 'LTS' UNLESS NOTED OTHERWISE
 3. SMALLER BAR LAP LENGTH SHALL BE USED WHEN SPlicing DIFFERENT SIZED BARS
 - A. COMPRESSION LAP LENGTH SHALL NOT BE LESS THAN 'LCE' OF THE LARGER BAR
 - B. TENSION LAP LENGTH SHALL NOT BE LESS THAN 'LTE' OF THE LARGER BAR
 4. BUNDLED BAR SPICES:
 - A. INDIVIDUAL BAR SPICES WITHIN THE BUNDLE SHALL BE STAGGERED
 - B. INCREASE LAP LENGTH 20% FOR A 3 BAR BUNDLE
 - C. INCREASE LAP LENGTH 33% FOR A 4 BAR BUNDLE
 5. TOP AND BOTTOM BEAM SPICES SHALL BE STACKED VERTICALLY

- HOOK EMBEDMENT NOTES:**
1. SCHEDULED HOOK EMBEDMENT LENGTHS ASSUME:
 - A. SIDE COVER IS 2 1/2 INCHES OR GREATER
 - B. COVER BEYOND IS 2 INCHES OR GREATER
 2. IF REINFORCING IS SPECIFIED AS EPOXY COATED, INCREASE SCHEDULED LENGTHS BY 20%
 3. IF LIGHTWEIGHT AGGREGATE IS SPECIFIED, INCREASE SCHEDULED LENGTHS BY 30%
 4. IF SIDE COVER IS LESS THAN 2 1/2 INCHES, INCREASE LENGTHS BY 40%



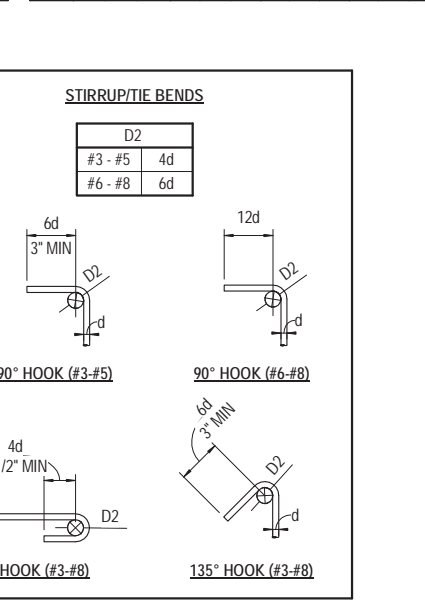
LAP SPlice & DEVELOPMENT LENGTHS (INCHES)						
F'c=3,000 PSI, Fy=60,000 PSI						
CLEAR COVER						
BAR SIZE	LDH	LCE	LCS	LTE	LTE TOP & LTS	LTS TOP
#3	6	9	12	12	13	17
#4	8	11	15	14	18	23
#5	10	14	19	20	17	26
#6	12	17	23	27	20	34
#7	14	20	27	44	33	49
#8	16	22	30	55	42	56
#9	18	25	34	67	51	69
#10	20	28	38	79	61	83
#11	22	31	42	93	72	98



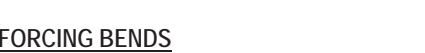
- NOTES:**
1. ALL BENDS SHALL BE MADE COLD
 2. #14 & #18 BARS SHALL BE BEND TESTED & LAB APPROVED PRIOR TO BENDING

TYPICAL REINFORCING BENDS

LAP SPlice & DEVELOPMENT LENGTHS (INCHES)						
F'c=3,500 PSI, Fy=60,000 PSI						
CLEAR COVER						
BAR SIZE	LDH	LCE	LCS	LTE	LTE TOP & LTS	LTS TOP
#3	6	8	12	12	12	16
#4	8	11	15	13	16	21
#5	9	13	19	19	16	26
#6	11	16	23	25	19	31
#7	13	18	27	41	31	45
#8	15	21	30	51	39	52
#9	16	23	34	62	47	64
#10	18	26	38	74	56	77
#11	20	28	42	86	66	91



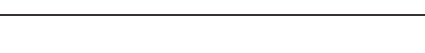
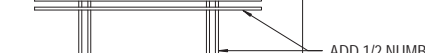
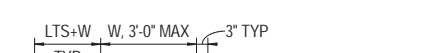
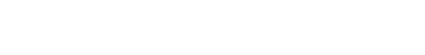
LAP SPlice & DEVELOPMENT LENGTHS (INCHES)						
F'c=5,000 PSI, Fy=60,000 PSI						
CLEAR COVER						
BAR SIZE	LDH	LCE	LCS	LTE	LTE TOP & LTS	LTS TOP
#3	6	8	12	12	12	13
#4	6	9	15	12	14	18
#5	8	12	19	16	13	20
#6	9	14	23	21	16	26
#7	11	16	27	34	26	38
#8	12	18	30	43	32	44
#9	14	21	34	52	40	54
#10	15	23	38	62	47	66
#11	17	25	42	72	56	76



LAP SPlice & DEVELOPMENT LENGTHS (INCHES)						
F'c=4,500 PSI, Fy=60,000 PSI						
CLEAR COVER						
BAR SIZE	LDH	LCE	LCS	LTE	LTE TOP & LTS	LTS TOP
#3	6	8	12	12	12	14
#4	7	9	15	12	14	19
#5	8	12	19	16	14	23
#6	10	14	23	22	17	28
#7	11	16	27	36	27	40
#8	13	18	30	45	34	46
#9	15	21	34	55	42	56
#10	16	23	38	65	50	68
#11	18	25	42	76	58	80

LAP SPlice & DEVELOPMENT LENGTHS (INCHES)						
F'c=4,500 PSI, Fy=60,000 PSI						
CLEAR COVER						
BAR SIZE	LDH	LCE	LCS	LTE	LTE TOP & LTS	LTS TOP
#3	6	8	12	12	12	14
#4	7	9	15	12	14	19
#5	8	12	19	16	14	23
#6	10	14	23	22	17	28
#7	11	16	27	36	27	40
#8	13	18	30	45	34	46
#9	15	21	34	55	42	56
#10	16	23	38	65	50	68
#11	18	25	42	76	58	80

LAP SPlice & DEVELOPMENT LENGTHS (INCHES)						
F'c=5,000 PSI, Fy=60,000 PSI						
CLEAR COVER						
BAR SIZE	LDH	LCE	LCS	LTE	LTE TOP & LTS	LTS TOP
#3	6	8	12	12	12	13
#4	6	9	15	12	14	18
#5	8	12	19	16	13	20
#6	9	14	23	21	16	26
#7	11	16	27	34	26	38
#8	12	18	30	43	32	44
#9	14	21	34	52	40	54
#10	15	23	38	62	47	66
#11	17	25	42	72	56	76



R2

ROCKY MOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

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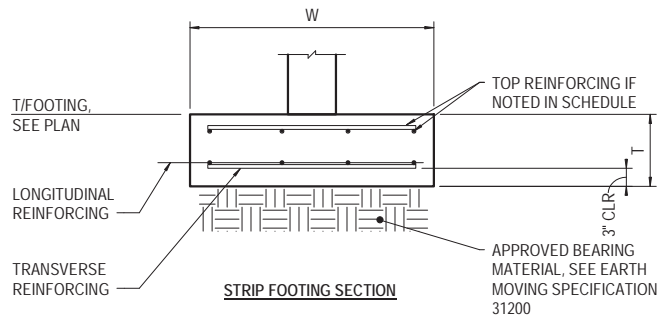
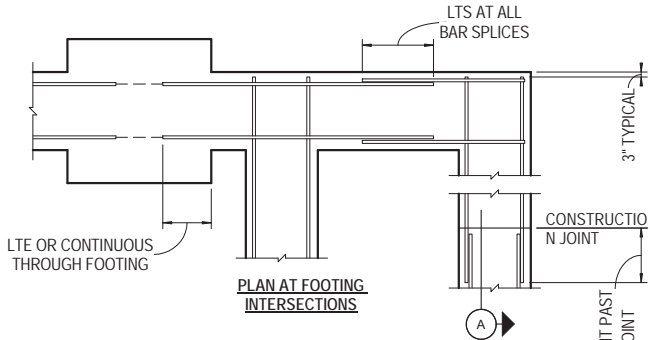
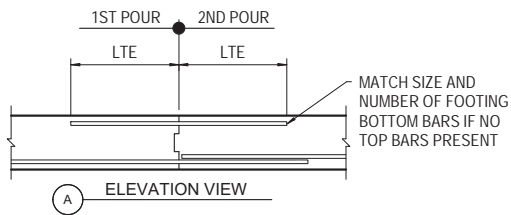
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STAMPS, LOGOS, AND SEALS

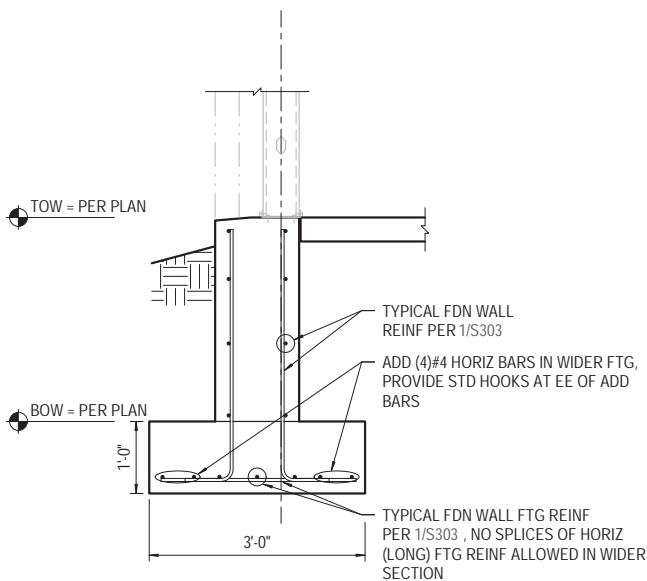
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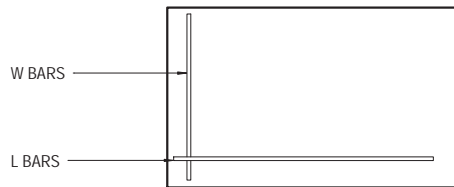
NOTES:
1. SEE 6/S303 FOR POUR LENGTH LIMITS AND CONSTRUCTION JOINT DETAILS

11 3/4" = 1'-0" TYP STRIP FOOTING

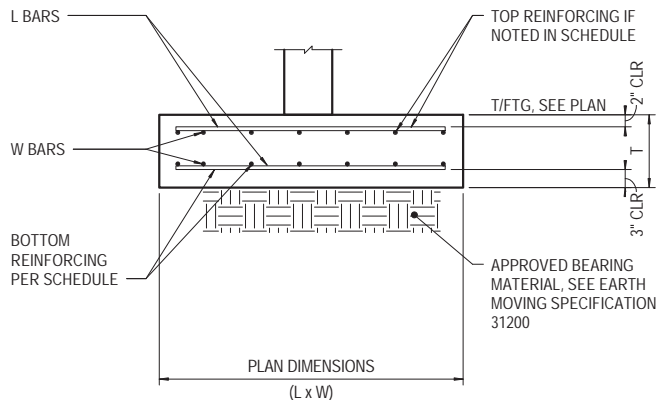


12 3/4" = 1'-0" WIDER FOOTING AT V-BRACE

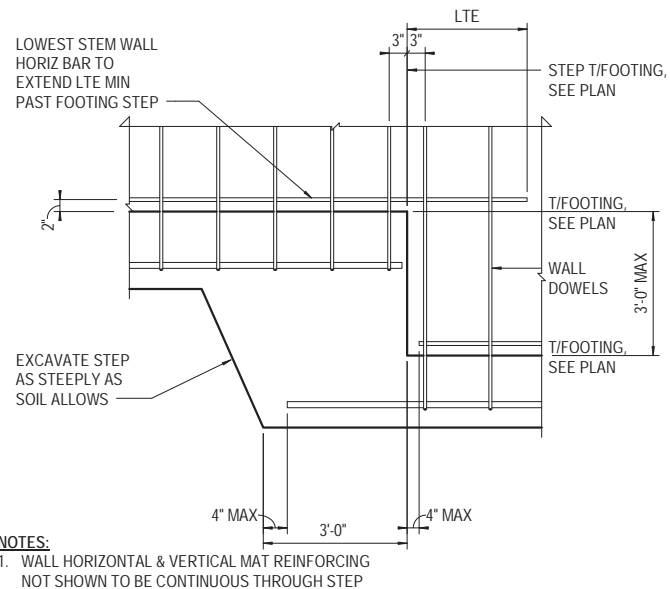
SPREAD FOOTING SCHEDULE		
SOIL ALLOWABLE PRESSURE = 4000 PSF		
MARK	FOOTING SIZE L x W x T	REINFORCING
F3x3	3'-0"x3'-0"x1'-0"	(4) #4 EW BOT
F3x3T	3'-0"x3'-0"x1'-0"	(4) #4 EW T&B
F4x3	4'-0"x3'-0"x1'-0"	(4) #5 L BARS & (4) #4 W BARS BOT
F4x4	4'-0"x4'-0"x1'-0"	(4) #5 EW BOT
F4x4T	4'-0"x4'-0"x1'-0"	(4) #5 EW T&B
F5x5	5'-0"x5'-0"x1'-4"	(6) #5 EW BOT
F5x5T	5'-0"x5'-0"x1'-4"	(6) #5 EW T&B
F6x6	6'-0"x6'-0"x1'-6"	(6) #6 EW BOT



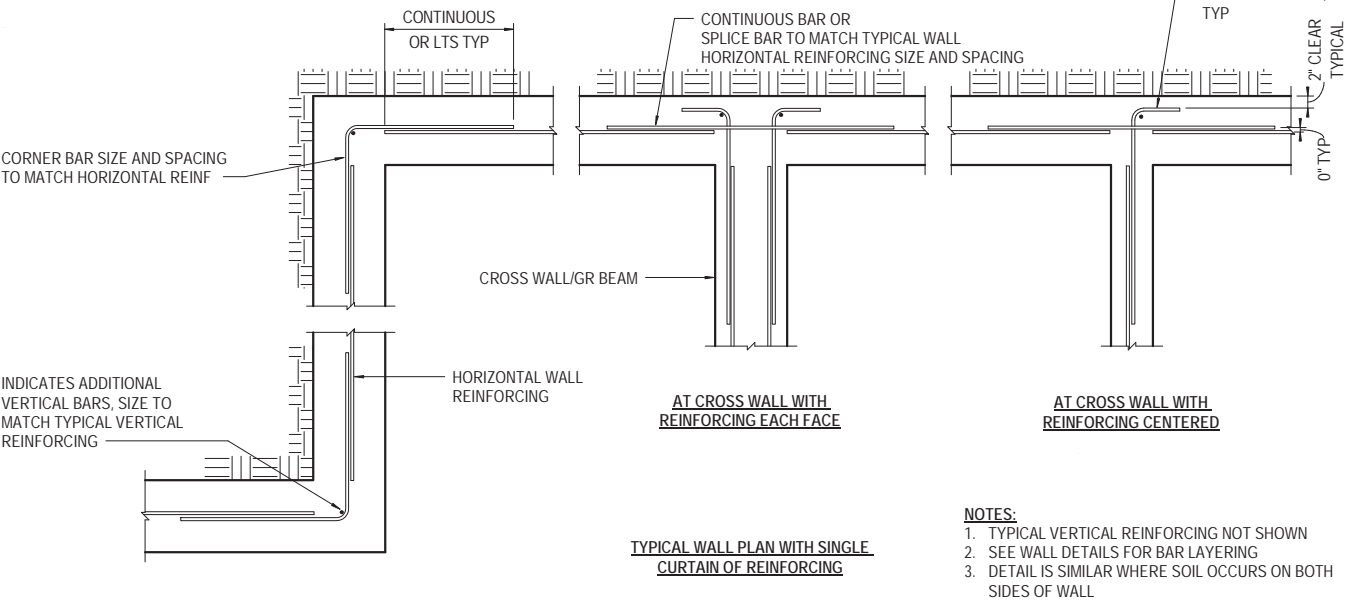
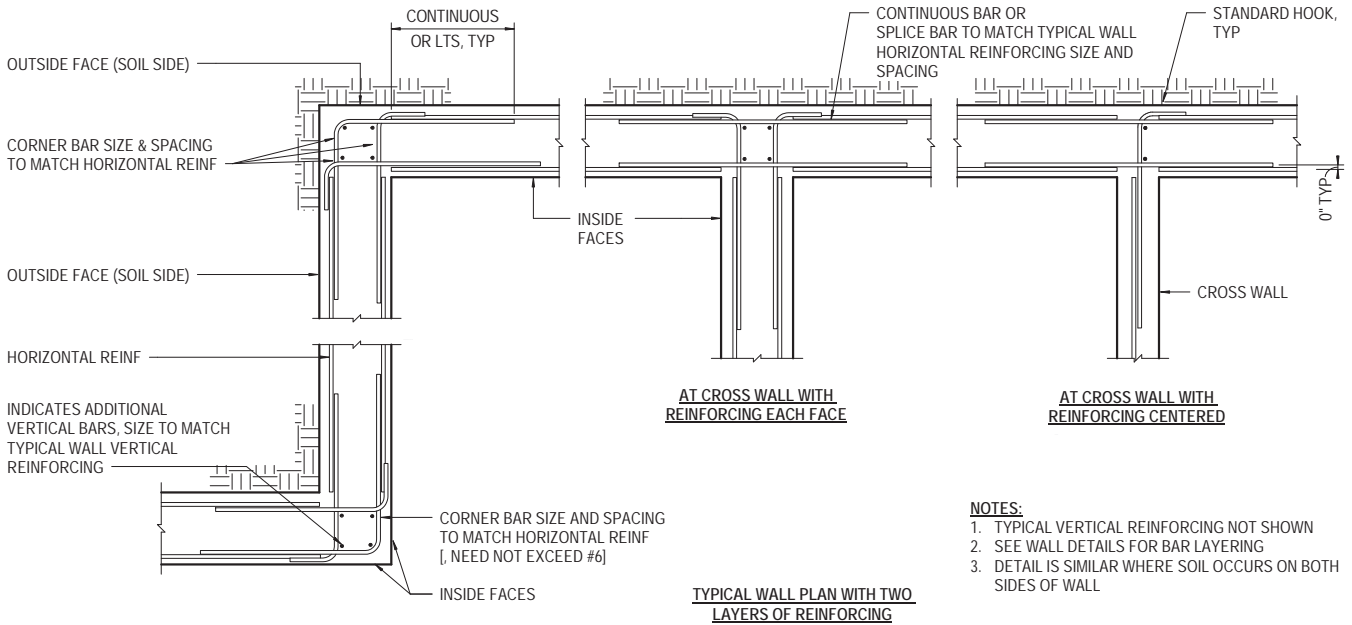
PLAN



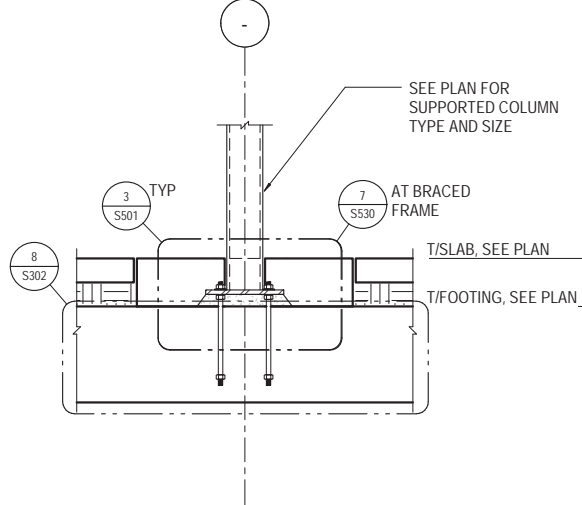
8 3/4" = 1'-0" TYP SPREAD FOOTING



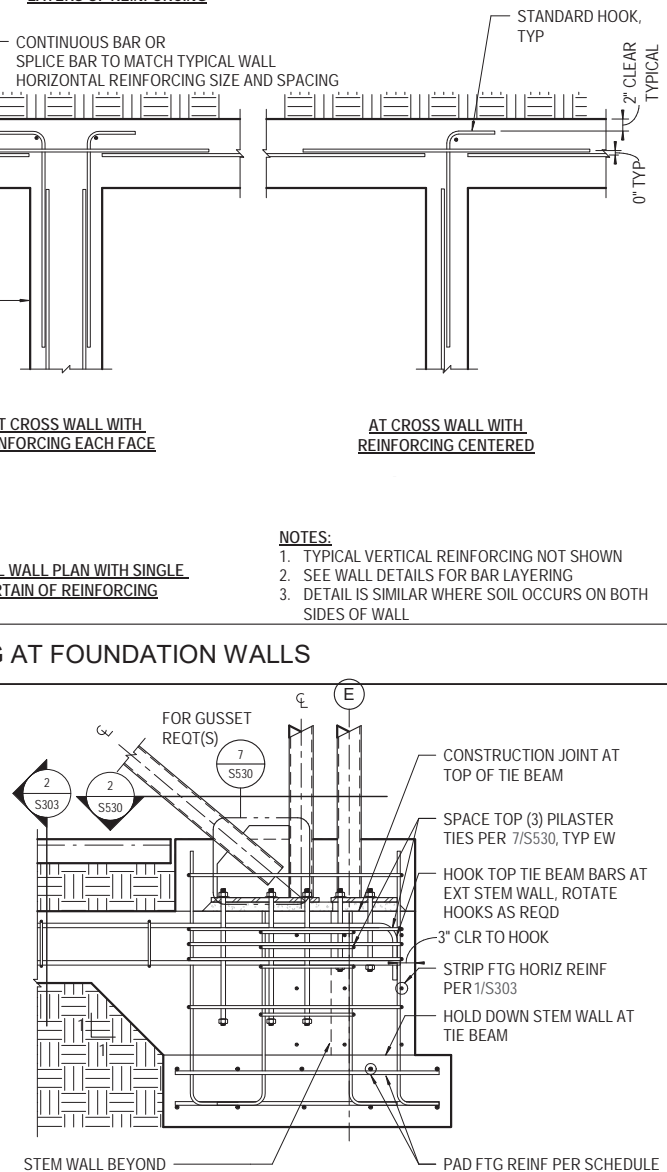
9 3/4" = 1'-0" STRIP FOOTING w/CIP STEM WALL STEP, 3'-0" AND LESS



5 NO SCALE TYPICAL HORIZONTAL REINFORCING AT FOUNDATION WALLS



6 3/4" = 1'-0" INTERIOR COLUMN AT SPREAD FOOTING



3 3/4" = 1'-0" TIE BEAM AT EXTERIOR STRIP FOOTING



UNITED STATES
DEPARTMENT OF AGRICULTURE
FOREST SERVICE

R2
ROCKY MOUNTAIN
REGION

STAMPS, LOGOS, AND
SEALS



NO: ISSUED FOR: DATE:

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**ASPEN-SOPRIS
RANGER DISTRICT
OFFICE**

ASPEN / SOPRIS RANGER DISTRICT

DRAWING TITLE

**FOUNDATION
DETAILS**

ARCHIVE
NO. 100% CONSTRUCTION DOCUMENTS

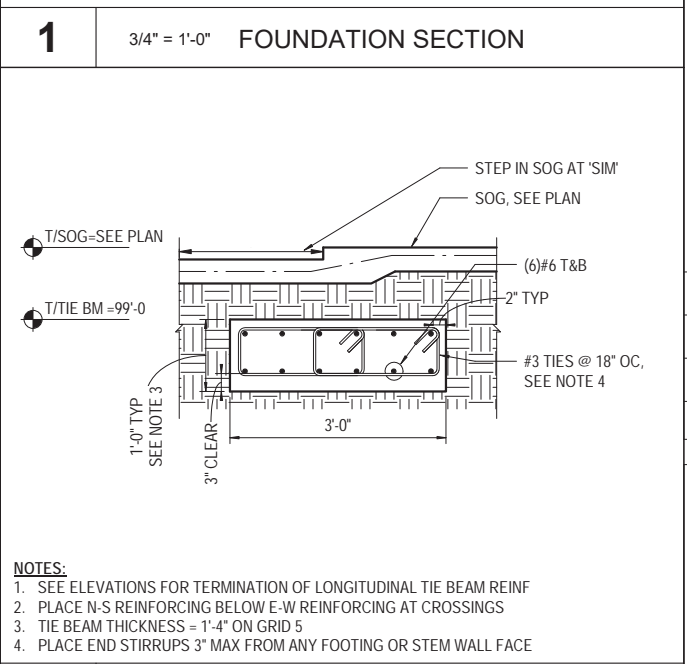
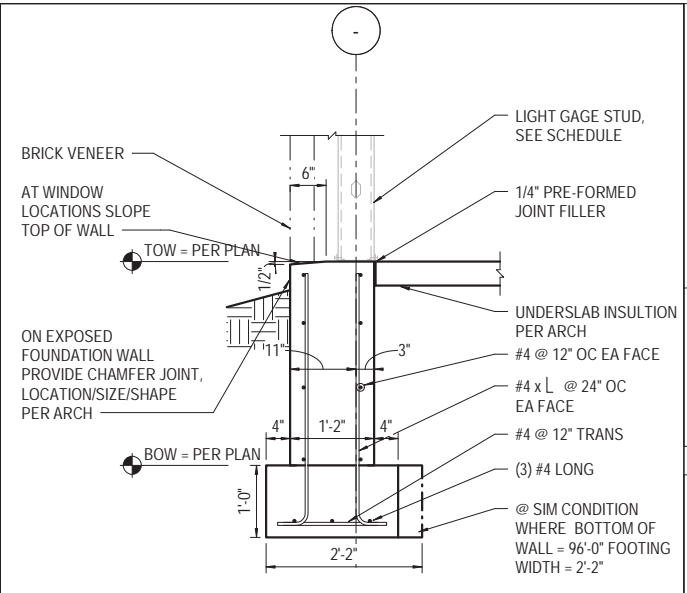
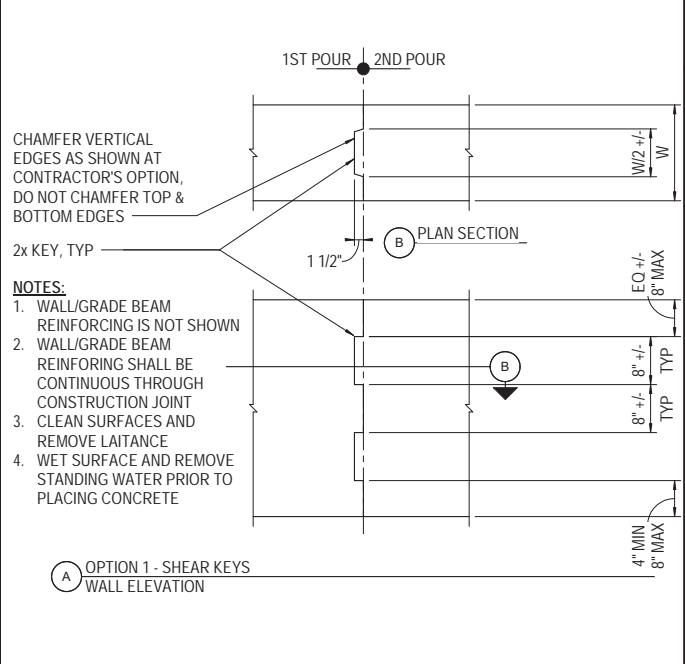
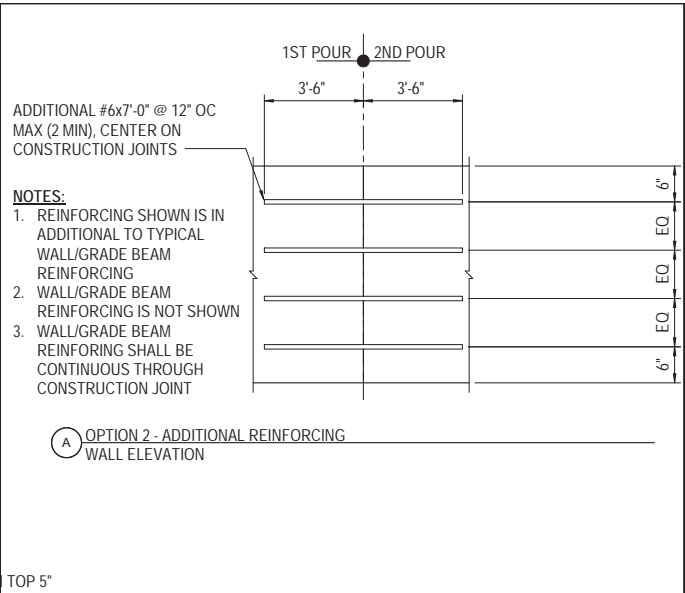
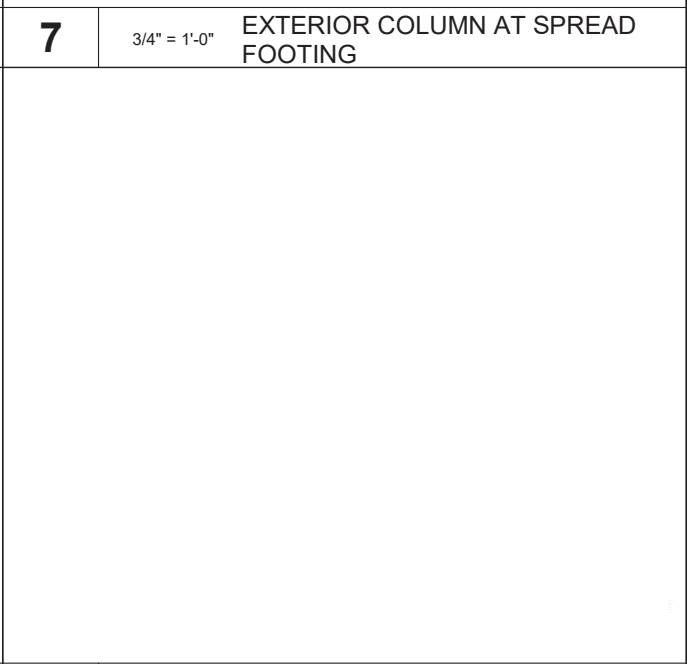
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SM

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07/09/2020

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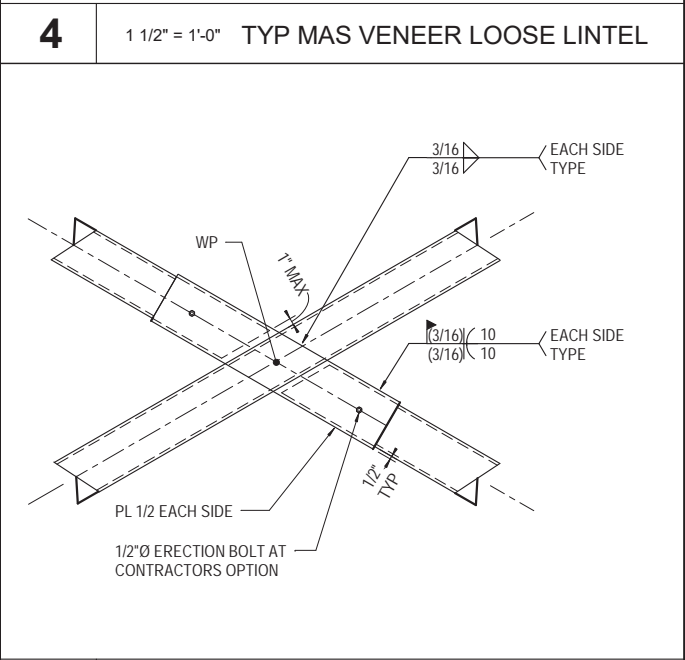
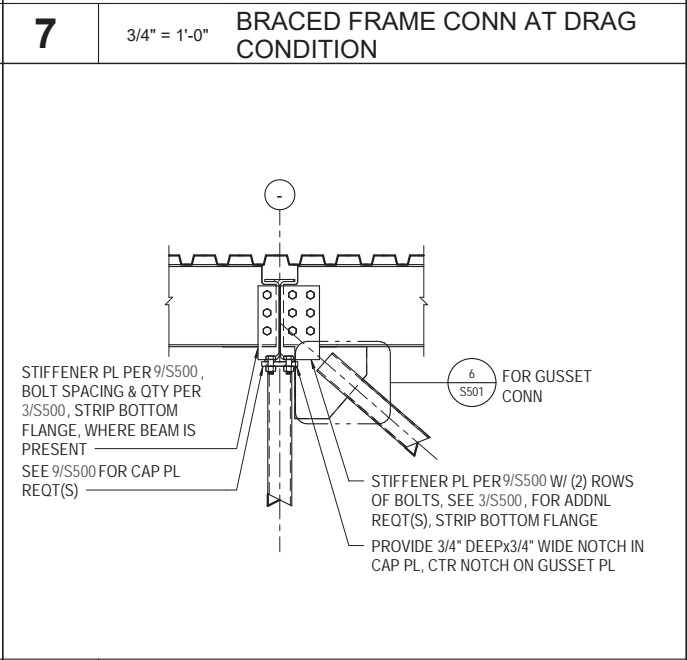
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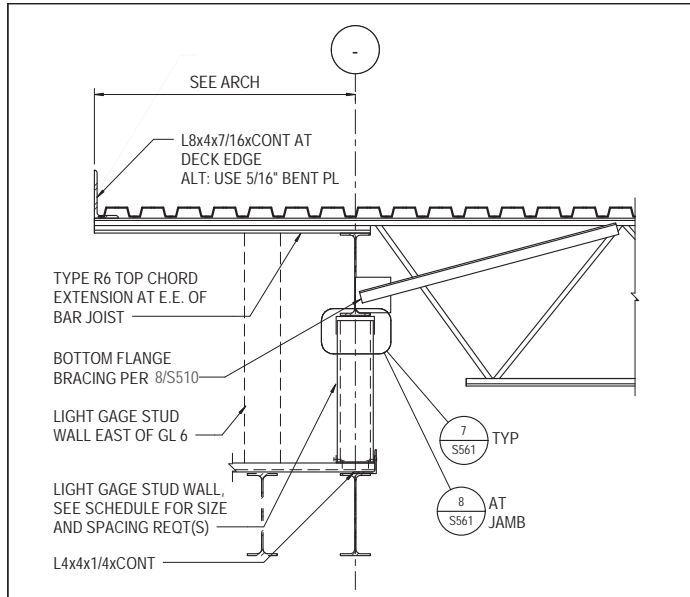
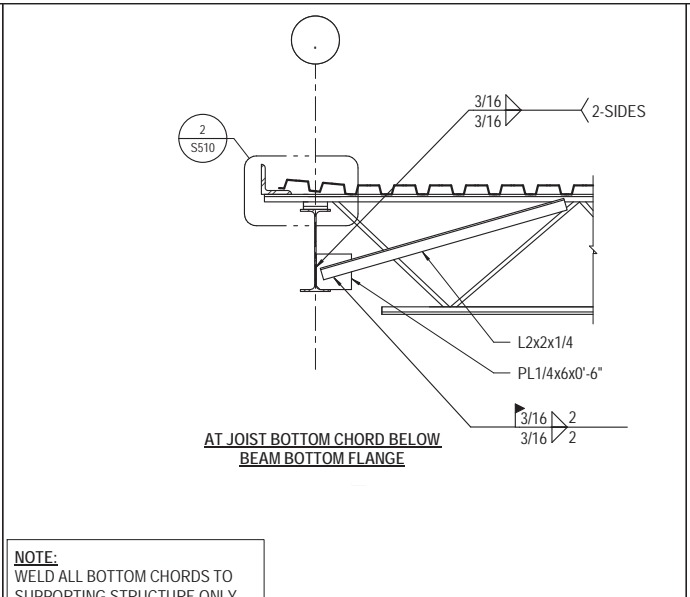
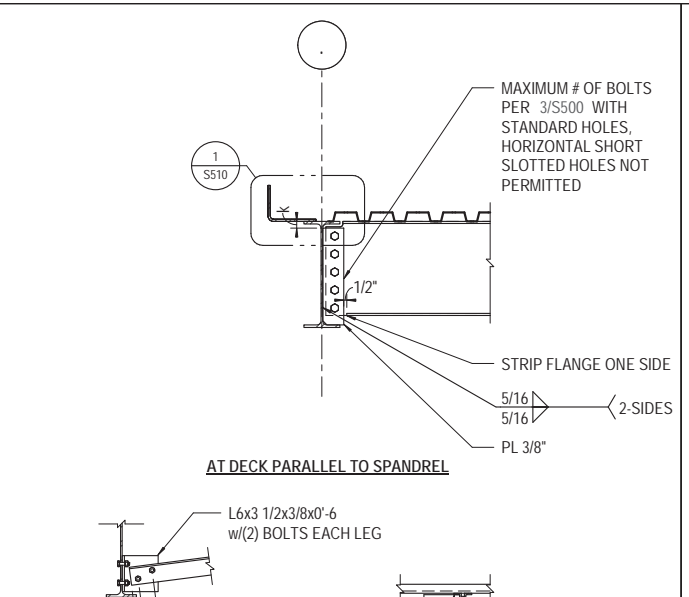
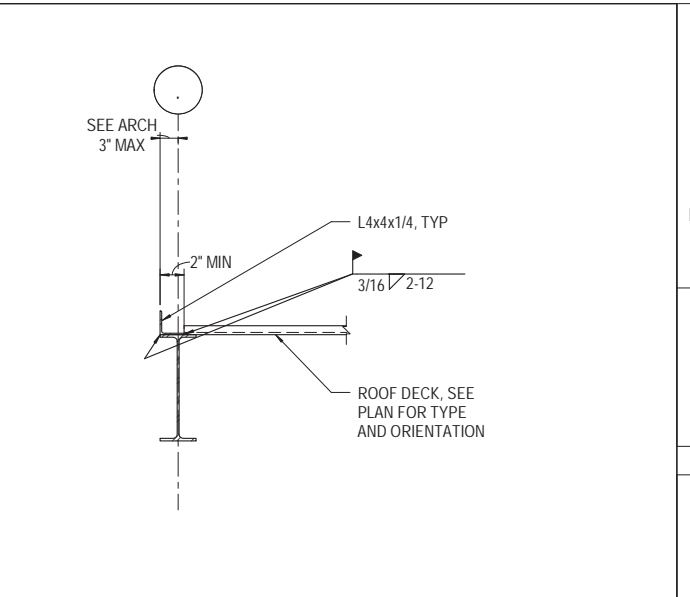

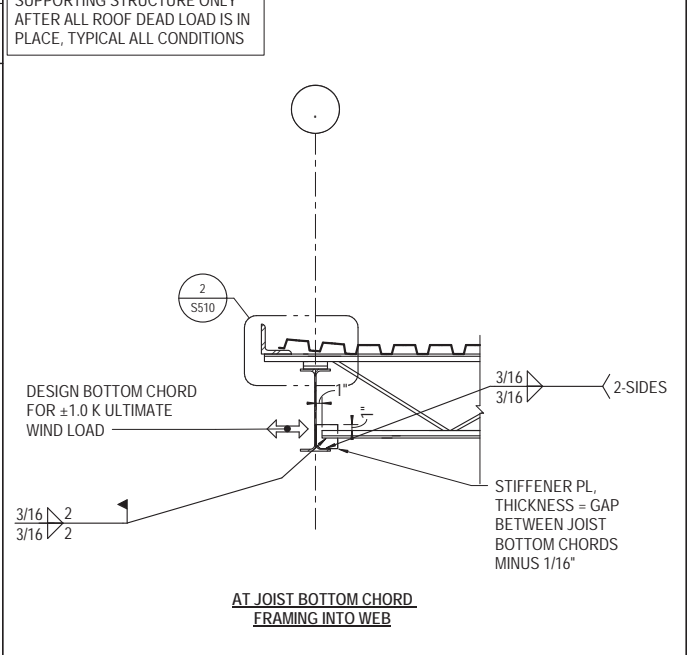
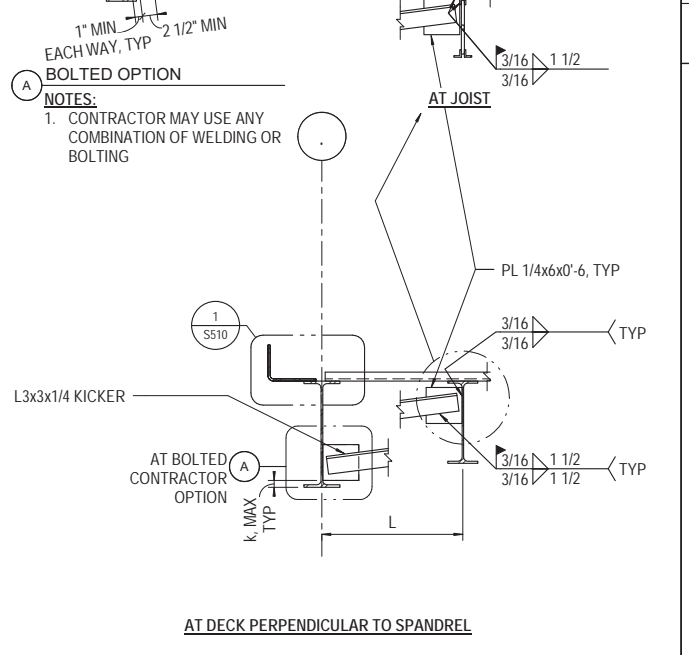
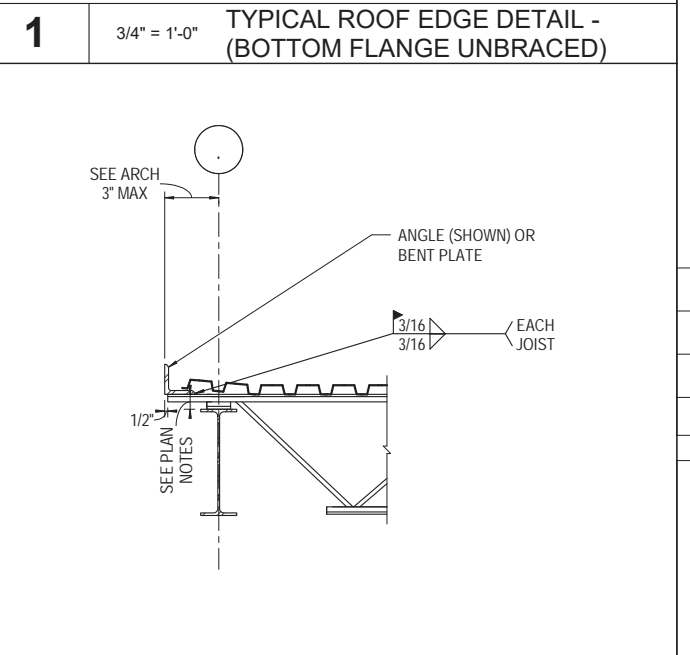
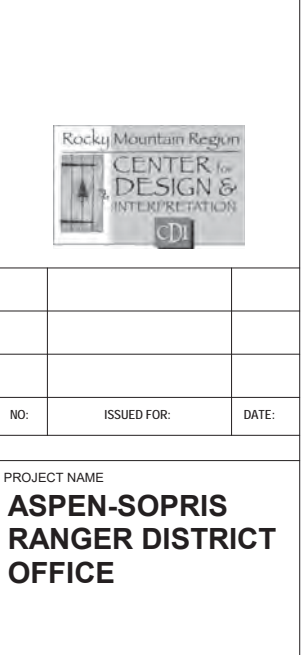
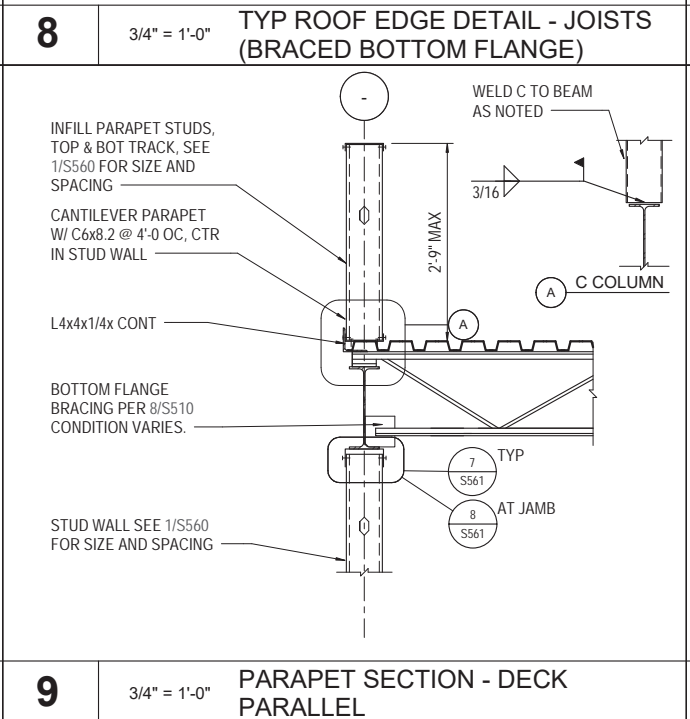
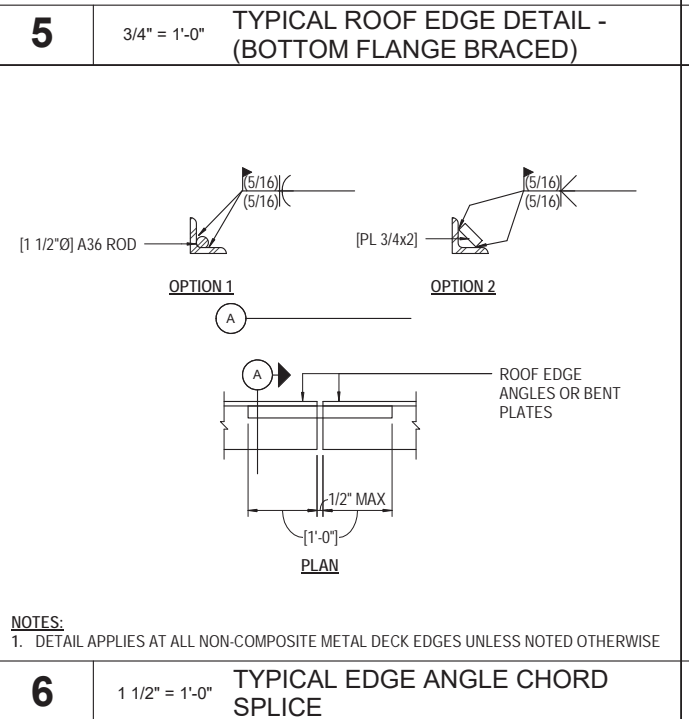
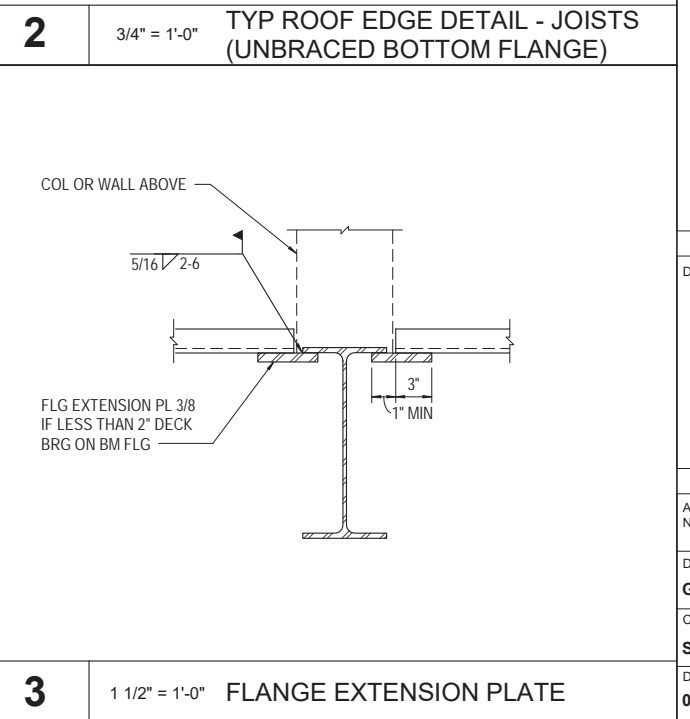
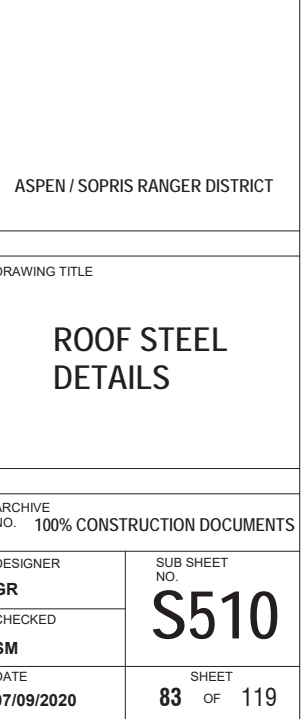


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STAMPS, LOGOS, AND SEALS		
NO:	ISSUED FOR:	DATE:
PROJECT NAME		
<h2 style="margin: 0;">ASPEN-SOPRIS RANGER DISTRICT OFFICE</h2>		
DRAWING TITLE		
<h1 style="margin: 0;">FOUNDATION DETAILS</h1>		
ARCHIVE NO.		
100% CONSTRUCTION DOCUMENTS		
DESIGNER	SUB SHEET NO.	
GR	<h1 style="margin: 0;">S303</h1>	
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10		11		5		2		12	
3/4" = 1'-0"		3/4" = 1'-0"		3/4" = 1'-0"		3/4" = 1'-0"		3/4" = 1'-0"	
HIGH ROOF EDGE SECTION - DECK PARALLEL		HIGH ROOF EDGE SECTION - DECK PERPENDICULAR		TYPICAL ROOF EDGE DETAIL - (BOTTOM FLANGE BRACED)		TYP ROOF EDGE DETAIL - JOISTS (UNBRACED BOTTOM FLANGE)		PARAPET SECTION - DECK PERPENDICULAR	
									
8		6		3		9		6	
3/4" = 1'-0"		1 1/2" = 1'-0"		1 1/2" = 1'-0"		3/4" = 1'-0"		3/4" = 1'-0"	
TYP ROOF EDGE DETAIL - JOISTS (BRACED BOTTOM FLANGE)		TYPICAL EDGE ANGLE CHORD SPLICE		FLANGE EXTENSION PLATE		PARAPET SECTION - DECK PARALLEL		PARAPET SECTION - DECK PARALLEL	
									
NOTE: WELD ALL BOTTOM CHORDS TO SUPPORTING STRUCTURE ONLY AFTER ALL ROOF DEAD LOAD IS IN PLACE, TYPICAL ALL CONDITIONS		NOTES: 1. DETAIL APPLIES AT ALL NON-COMPOSITE METAL DECK EDGES UNLESS NOTED OTHERWISE		NOTES: 1. DETAIL APPLIES AT ALL NON-COMPOSITE METAL DECK EDGES UNLESS NOTED OTHERWISE		NOTES: 1. DETAIL APPLIES AT ALL NON-COMPOSITE METAL DECK EDGES UNLESS NOTED OTHERWISE		NOTES: 1. DETAIL APPLIES AT ALL NON-COMPOSITE METAL DECK EDGES UNLESS NOTED OTHERWISE	



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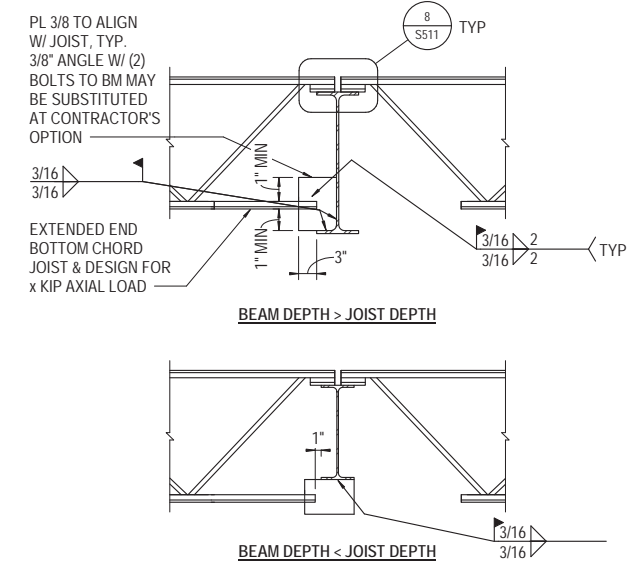
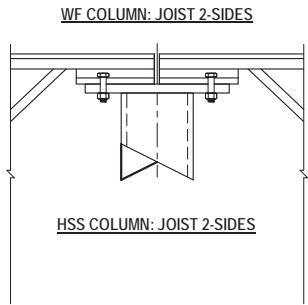
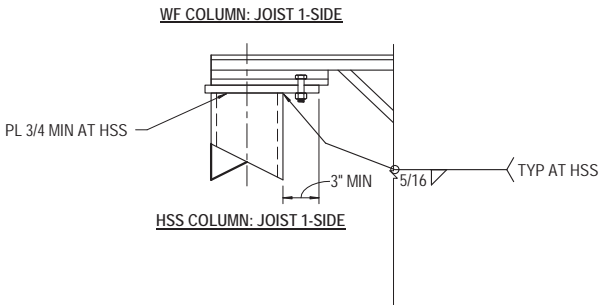
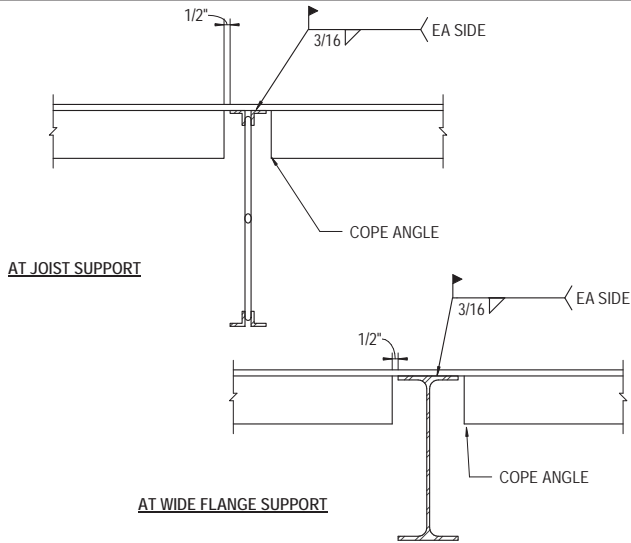
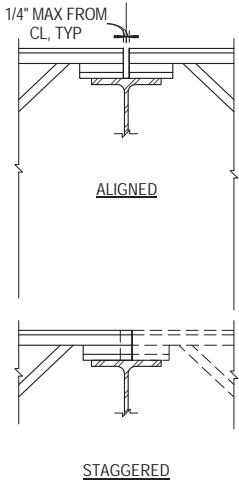
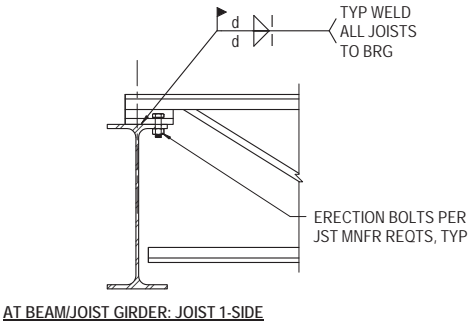
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**ROOF STEEL
DETAILS**

ARCHIVE
NO. 100% CONSTRUCTION DOCUMENTS

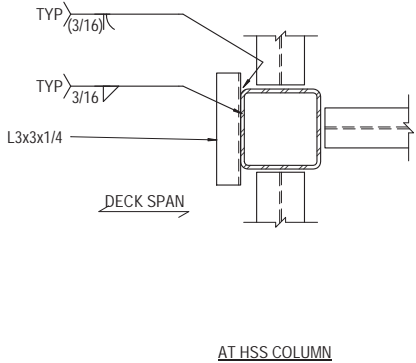
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TYP JOIST BEARING AND WELD SCHEDULE				
JOIST SERIES	SEAT DEPTH	MIN BEARING	TYP WELD	
			d	l
K, KCS	2 1/2"	2 1/2"	1/8"	2"

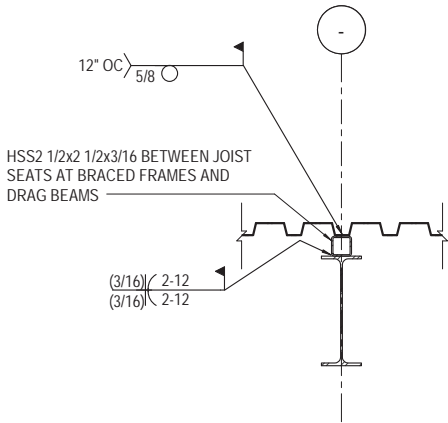


8 1 1/2" = 1'-0" TYP JOIST BRG CONN



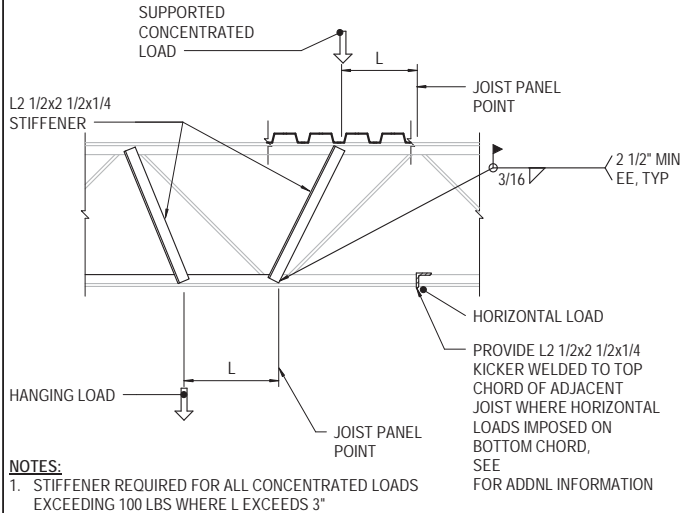
NOTES:
1. CONTRACTOR MAY DESIGN ALTERNATE METHODS OF DECK SUPPORT. DECK SUPPORTS SHALL BE ABLE TO SUPPORT THE DECK AS A FORM WITH THE WET WEIGHT OF THE CONCRETE AND ALL CONSTRUCTION LOADS

9 NO SCALE TYPICAL METAL DECK SUPPORT AT INTERIOR COLUMN



6 1" = 1'-0" TYPICAL HSS DECK SUPPORT AT BRACED FRAMES AND DRAG BEAMS

2 3/4" = 1'-0" TYP WF GIRDER BOT FLG BRACE



3 3/4" = 1'-0" TYP JOIST CHORD SUPPORT



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DRAWING TITLE

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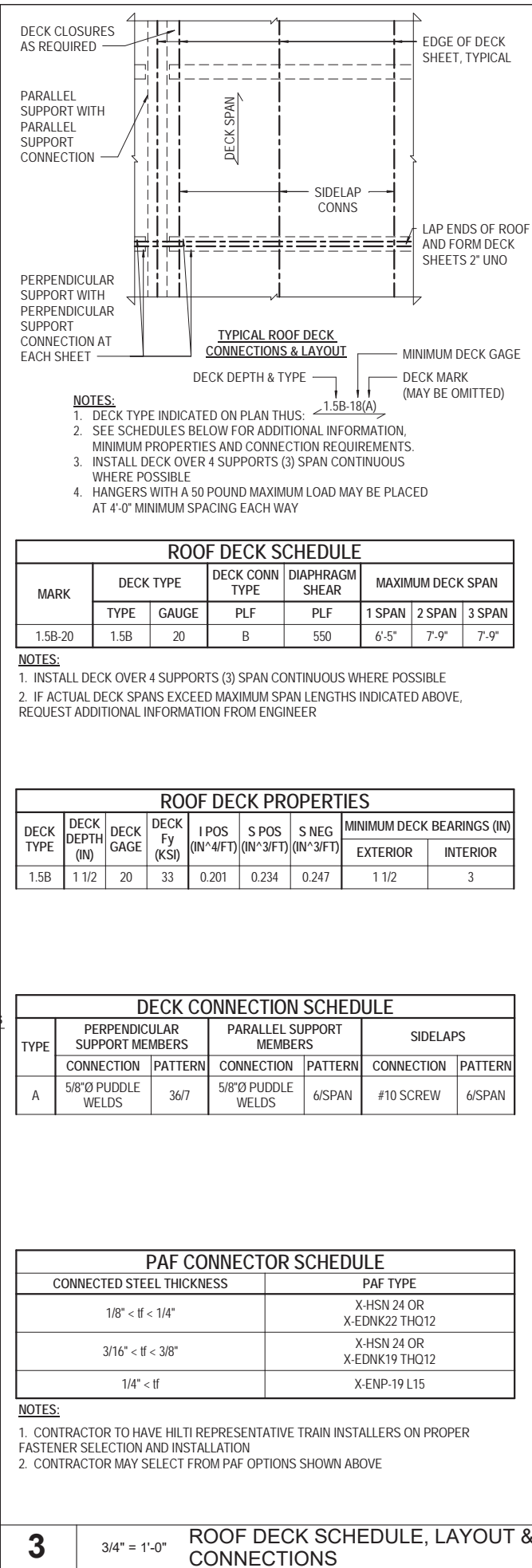
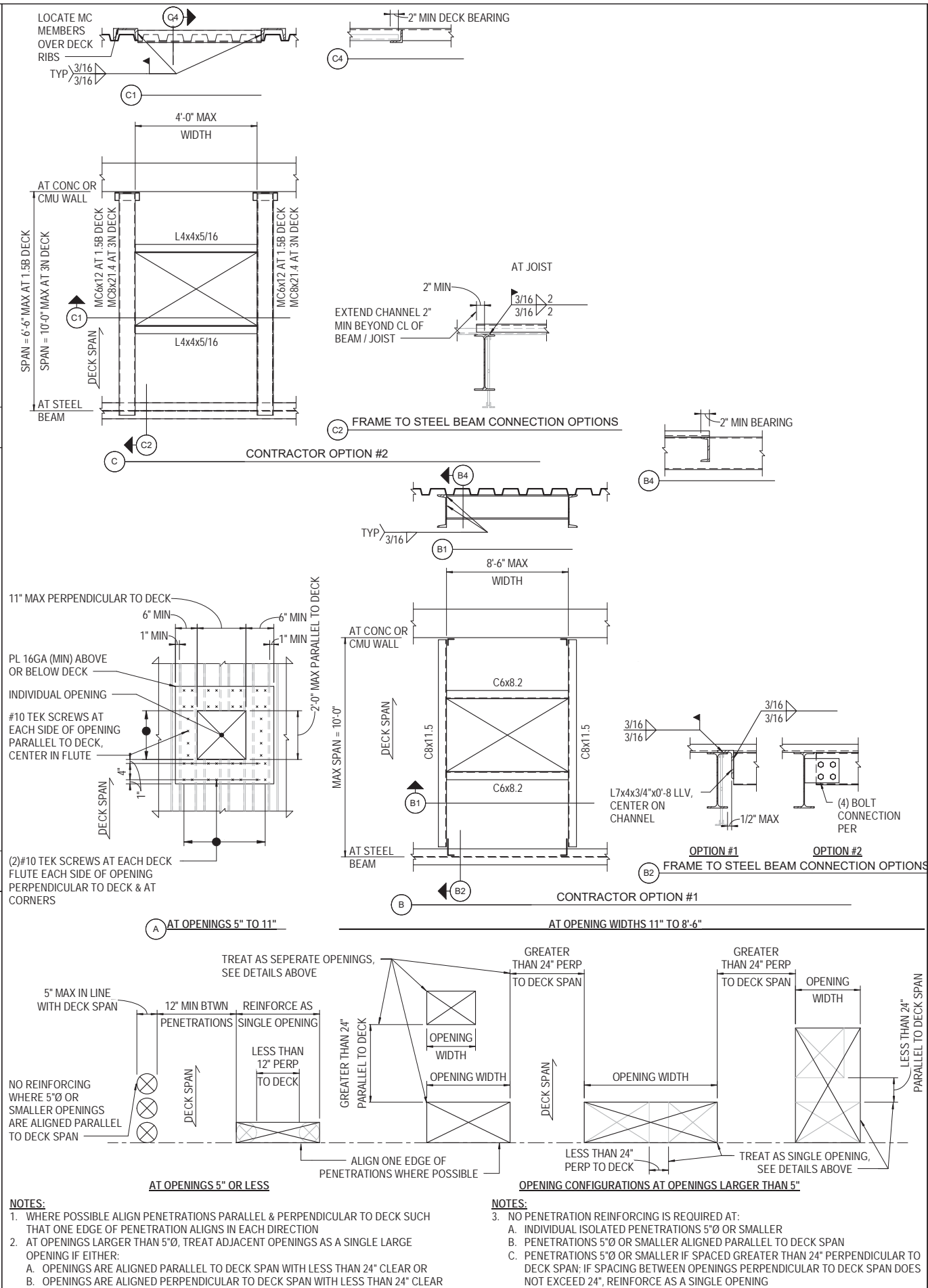
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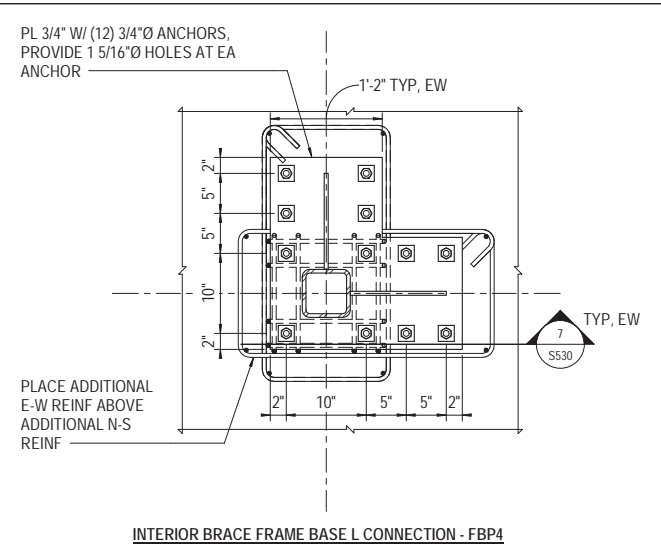
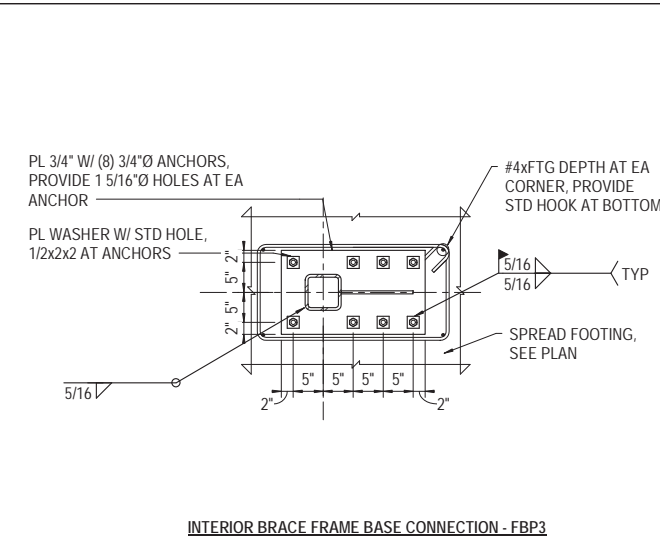
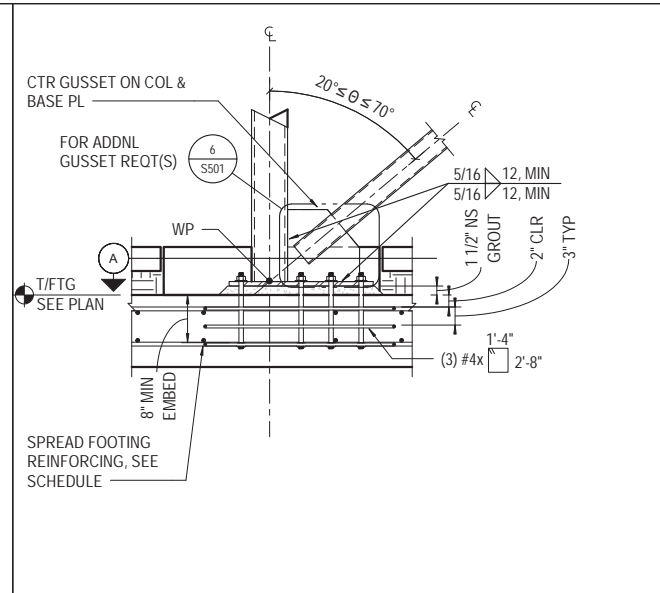
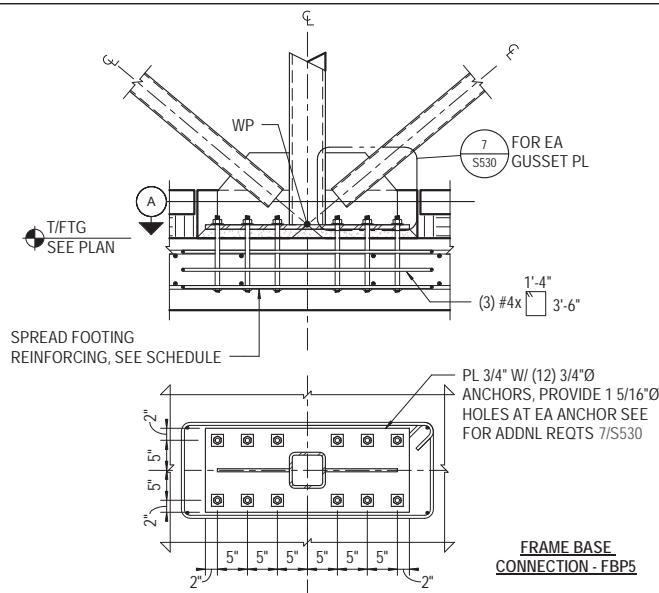
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<div><div><div><div><div>MECH UNIT</div><div>↓ W=SEE NOTES</div><div>CURB BY CONTRACTOR, FABRICATE TO ACCOMMODATE ROOF SLOPE</div><div>MC6x12 AT 1.5B DECK, MC8x21.4 AT 3N DECK, SPAN FROM SUPPORT TO SUPPORT</div><div>3/16</div><div>3/16</div><div>TYP</div><div>AT CURB PARALLEL TO DECK</div><div>D</div></div><div><div>MECH UNIT</div><div>↓ W=SEE NOTES</div><div>CURB BY CONTRACTOR, FABRICATE TO ACCOMMODATE ROOF SLOPE</div><div>MC6x12 AT 1.5B DECK, MC8x21.4 AT 3N DECK, SPAN FROM SUPPORT TO SUPPORT</div><div>2" MIN</div><div>SUPPORTING BEAM OR JOIST</div><div>AT CURB PERPENDICULAR TO DECK</div><div>C</div></div></div><div><div><div>MECH UNIT</div><div>↓ W=SEE NOTES</div><div>CURB BY CONTRACTOR, FABRICATE TO ACCOMMODATE ROOF SLOPE</div><div>PL 16 Gax12xCONT W/(2) ROWS OF #10 SCREWS @12" OC</div><div>AT CURB PARALLEL TO DECK</div><div>B</div></div><div><div>MECH UNIT</div><div>↓ W=SEE NOTES</div><div>CURB BY CONTRACTOR, FABRICATE TO ACCOMMODATE ROOF SLOPE</div><div>AT CURB PERPENDICULAR TO DECK</div><div>A</div></div></div><div><div>NOTES:</div><div>1. DETAIL APPLIES AT MECHANICAL UNITS WEIGHING BETWEEN 40-80 PSF (SERVICE LOAD)</div></div><div><div>AT MODERATELY LOADED ROOF TOP UNITS</div><div><div><div><div><div>[4'-0"] MAX BTWN CHANNELS, TYP</div><div>9 S520 TYP</div><div>X.Xk</div><div>ALIGN FACE OF CHANNEL WITH EACH PENETRATION, TYP</div><div>DECK SPAN</div><div>SPAN = 6'-6" MAX AT 1.5B DECK</div><div>SPAN = 10'-0" MAX AT 3N DECK</div><div>ROOF JOIST</div><div>ROOF BEAM</div></div><div><div>D</div><div>C</div></div></div></div></div></div></div></div>		<div><div><div><div><div>1 S511</div><div>2x BEAM DEPTH</div><div>CL POST</div><div>CL BEAM</div><div>4" MAX</div><div>3 S512 SIM</div><div>EXTEND EA STIFFENER FULL DEPTH AT KICKER</div><div>5 S510</div><div>FOR KICKER REQ(TS)</div></div><div>NOTES:</div><div>1. SEE PLAN FOR BOTTOM FLANGE BRACING LOCATIONS</div></div></div><div><div>4</div><div>1" = 1'-0"</div><div>BASE CONN AT OFFSET SCREENWALL POST</div></div></div>	<div><div><div><div><div>SEE ARCH</div><div>1 1/2" 1 1/2"</div><div>L6x4x3/8 LLH, TYP</div><div>SEE PLAN 7'-0" MAX</div><div>3 S512 AT BASE</div><div>HSS POST, SEE PLAN FOR SIZE</div></div><div>NOTES:</div><div>1. USE GALVANIZED SHIMS AS NEEDED FOR FIT</div><div>2. HOT DIP GALVANIZE ALL EXTERIOR STEEL @ SCREEN WALL</div><div>3. SEE PLAN FOR POST LOCATIONS, CENTER POSTS ON BEAMS BELOW</div></div></div><div><div>1</div><div>1/2" = 1'-0"</div><div>TYPICAL SCREEN WALL ELEVATION</div></div></div>	<div><div><div><div><div>USDA</div><div>FOREST SERVICE</div><div>UNITED STATES DEPARTMENT OF AGRICULTURE</div><div>FOREST SERVICE</div><div>R2</div><div>ROCKY MOUNTAIN REGION</div></div><div>STAMPS, LOGOS, AND SEALS</div><div><div>Rocky Mountain Region</div><div>CENTER for DESIGN & INTERPRETATION</div><div>CDI</div></div><div><div>NO:</div><div>ISSUED FOR:</div><div>DATE:</div></div><div><div>PROJECT NAME</div><div>ASPEN-SOPRIS RANGER DISTRICT OFFICE</div></div><div>ASPEN / SOPRIS RANGER DISTRICT</div><div><div>DRAWING TITLE</div><div>ROOF STEEL DETAILS</div></div><div><div>ARCHIVE NO. 100% CONSTRUCTION DOCUMENTS</div><div><div>DESIGNER GR</div><div>CHECKED SM</div><div>DATE 07/09/2020</div></div><div><div>SUB SHEET NO.</div><div>S512</div><div>SHEET 85 OF 119</div></div></div></div></div></div>	
<div><div><div><div><div>MECH UNIT</div><div>↓ W=SEE NOTES</div><div>CURB BY CONTRACTOR, FABRICATE TO ACCOMMODATE ROOF SLOPE</div><div>PL 16 Gax12xCONT W/(2) ROWS OF #10 SCREWS @12" OC</div><div>AT CURB PARALLEL TO DECK</div><div>B</div></div><div><div>MECH UNIT</div><div>↓ W=SEE NOTES</div><div>CURB BY CONTRACTOR, FABRICATE TO ACCOMMODATE ROOF SLOPE</div><div>AT CURB PERPENDICULAR TO DECK</div><div>A</div></div></div><div><div>NOTES:</div><div>1. DETAIL APPLIES AT MECHANICAL UNITS WEIGHING 300 POUNDS OR LESS WITH DISTRIBUTED LOADS OF 40 PSF OR LESS (SERVICE LOADS)</div></div><div><div>AT LIGHTLY LOADED ROOF TOP UNITS (SMALL CONDENSING UNITS, ROOF HOODS, ETC)</div><div><div><div><div><div>ROOF JOIST</div><div>DECK SPAN</div><div>SPAN = 6'-6" MAX AT 1.5B DECK</div><div>SPAN = 10'-0" MAX AT 3N DECK</div><div>ROOF BEAM</div></div><div><div>A</div><div>B</div></div></div></div></div></div></div></div>		<div><div><div><div><div>PARAPET, SEE 9/S510</div><div>HSS DRAG, SEE 6/S511</div><div>SEE 3/S500 FOR BEAM TO BEAM CONNECTION</div><div>COPE BOTTOM FLANGE THIS BEAM</div><div>COLUMN & CAP PLATE/STIFFENERS NOT SHOWN FOR CLARITY</div></div></div><div><div>5</div><div>3/4" = 1'-0"</div><div>BEAM CONN @ PERIMETER 1</div></div></div></div>	<div><div><div><div><div>T/ANGLE SEE ARCH</div><div>CAP PL 3/8x4x0'-10", USE SLOTTED HOLES AT ONE END OF EA PANEL, PROVIDE STD HOLES IN ANGLE</div><div>SCREENWALL PANEL, SEE ARCH</div><div>L3x3x3/8x3" W/ (1) 1/2"Ø A307 THRU BOLTS TYP, USE SLOTTED HOLES AT ONE END OF EA PANEL, TYP, PROVIDE STD HOLES IN ANGLE</div><div>B/ANGLE SEE ARCH</div><div>SEAL ANGLE TO HSS, 3/16" TYP</div><div>SEAL CAP PL</div><div>1 1/2" GAP</div><div>1" GAP</div><div>1 1/2" GAP ES</div><div>TRIM ANGLE AROUND POST</div><div>END POSTS AT CLEARSTORY (4 POSTS TOTAL, SEE PLAN)</div><div>A TYPICAL CONDITION</div><div>B</div></div><div>NOTES:</div><div>1. USE GALVANIZED SHIMS AS NEEDED FOR FIT</div><div>2. HOT DIP GALVANIZE ALL EXTERIOR STEEL</div></div></div><div><div>2</div><div>3/4" = 1'-0"</div><div>SCREEN WALL ANGLE/HSS CONN</div></div></div>	<div><div><div><div><div>5</div><div>3/4" = 1'-0"</div><div>BEAM CONN @ PERIMETER 2</div></div></div><div><div><div><div><div>BEAM CONNECTION BEYOND, SEE 3/S500</div><div>COPE TOP FLANGE BOTH W14x22</div><div>SEE 3/S500 FOR BEAM TO BEAM CONNECTION</div><div>SEE 9/S500 FOR BEAM TO COLUMN CONNECTION</div></div></div></div></div></div></div>	<div><div><div><div><div>HSS POST = BEAM</div><div>PL 3/4</div><div>5/16 5/16 TYP</div><div>STIFFENER PL 3/8, EA SIDE OF BEAM WEB, CTR ON POST</div><div>EXTEND EA STIFFENER FULL DEPTH</div><div>5 S510 FOR KICKER REQ(TS)</div><div>AT BOTTOM FLANGE BRACING</div><div>A</div><div>B</div></div><div>NOTES:</div><div>1. SEE 5/S512 FOR CONN AT OFFSET SCREENWALL POSTS</div><div>2. SEE PLAN FOR BOTTOM FLANGE BRACING LOCATIONS</div></div></div><div><div>3</div><div>3/4" = 1'-0"</div><div>SCREENWALL VERTICAL HSS POST TO WF BEAM - BOLTED</div></div></div>
<div><div><div><div><div>5</div><div>3/12</div><div>8"</div><div>PROVIDE TYPICAL CONNECTION BETWEEN BEAMS, SEE 3/S500</div><div>E</div></div></div></div></div>	<div><div><div><div><div>3 S500</div><div>9 S500</div><div>VARIES</div><div>DECK PARALLEL</div></div><div><div>3 S500</div><div>9 S500</div><div>VARIES</div><div>DECK PERPENDICULAR</div></div></div></div></div>	<div><div><div><div><div>12</div><div>3/4" = 1'-0"</div><div>BEAM DETAIL 5/E</div></div></div></div></div>	<div><div><div><div><div>9</div><div>3/4" = 1'-0"</div><div>TYPICAL CANTILEVER OVER COLUMN</div></div></div></div></div>	<div><div><div><div><div>6</div><div>3/4" = 1'-0"</div><div>BEAM CONN @ PERIMETER 2</div></div></div></div></div>	<div><div><div><div><div>3</div><div>3/4" = 1'-0"</div><div>SCREENWALL VERTICAL HSS POST TO WF BEAM - BOLTED</div></div></div></div></div>



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<h1 style="margin: 0;">R2</h1> <h2 style="margin: 0;">ROCKY MOUNTAIN REGION</h2>		
<p>STAMPS, LOGOS, AND SEALS</p>		
NO:	ISSUED FOR:	DATE:
<p>PROJECT NAME</p> <h2 style="margin: 0;">ASPEN-SOPRIS RANGER DISTRICT OFFICE</h2>		
<p>ASPEN / SOPRIS RANGER DISTRICT</p>		
<p>DRAWING TITLE</p> <h2 style="margin: 0;">ROOF DECK DETAILS</h2>		
<p>ARCHIVE NO. 100% CONSTRUCTION DOCUMENTS</p>		
<p>DESIGNER GR</p>	<p>SUB SHEET NO.</p>	
<p>CHECKED SM</p>	<h1 style="margin: 0;">S520</h1>	
<p>DATE 07/09/2020</p>	<p>SHEET 86 OF 119</p>	



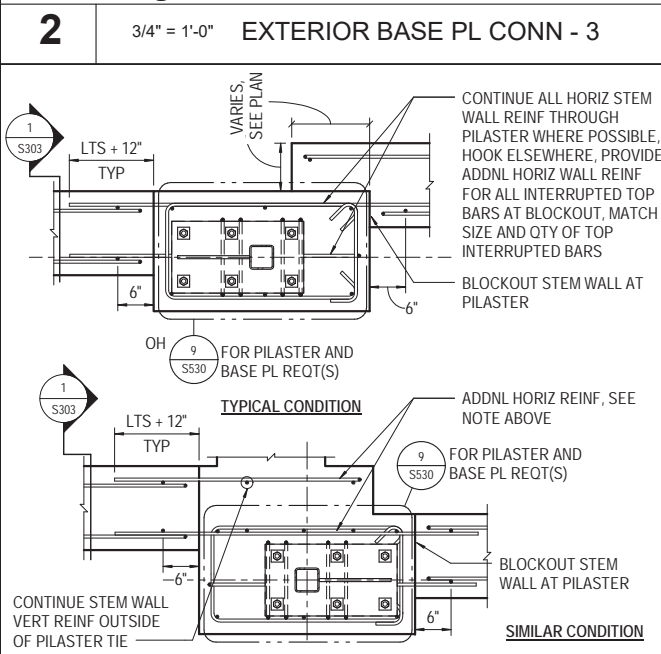
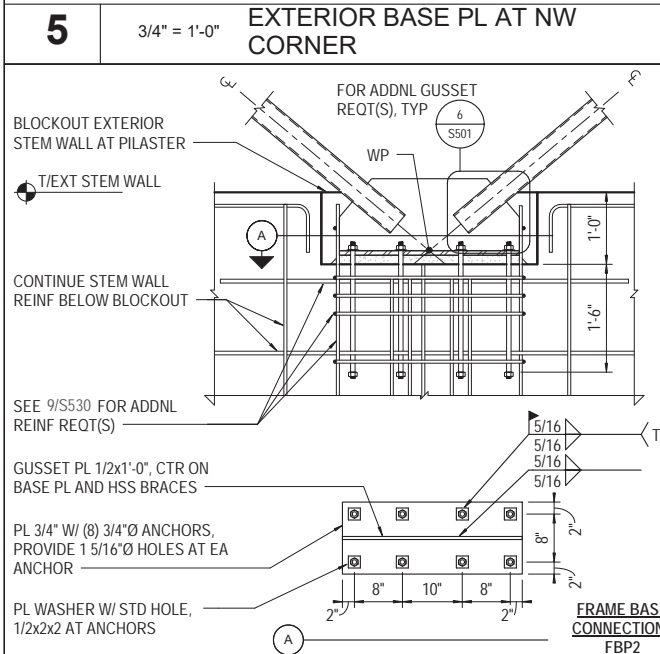
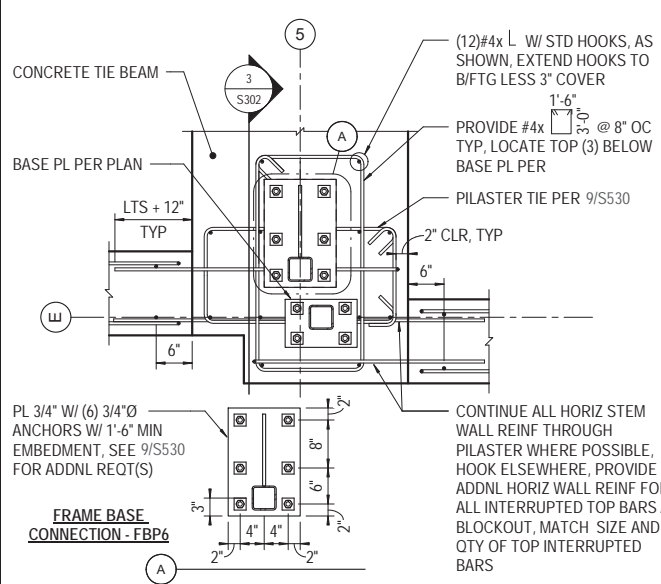
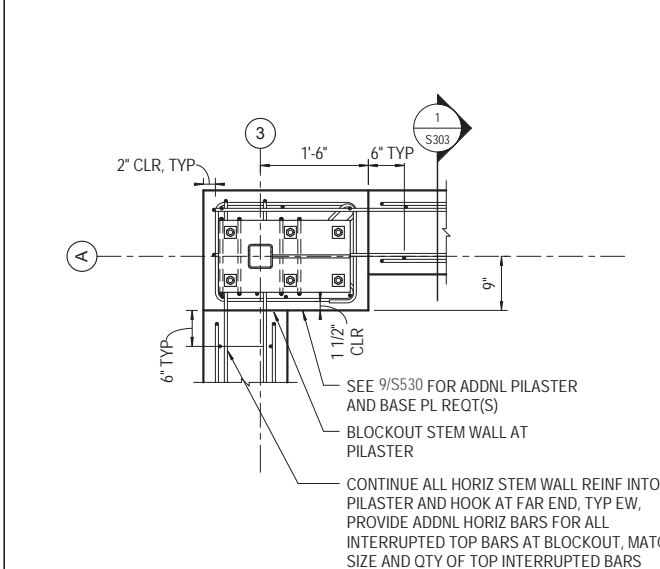
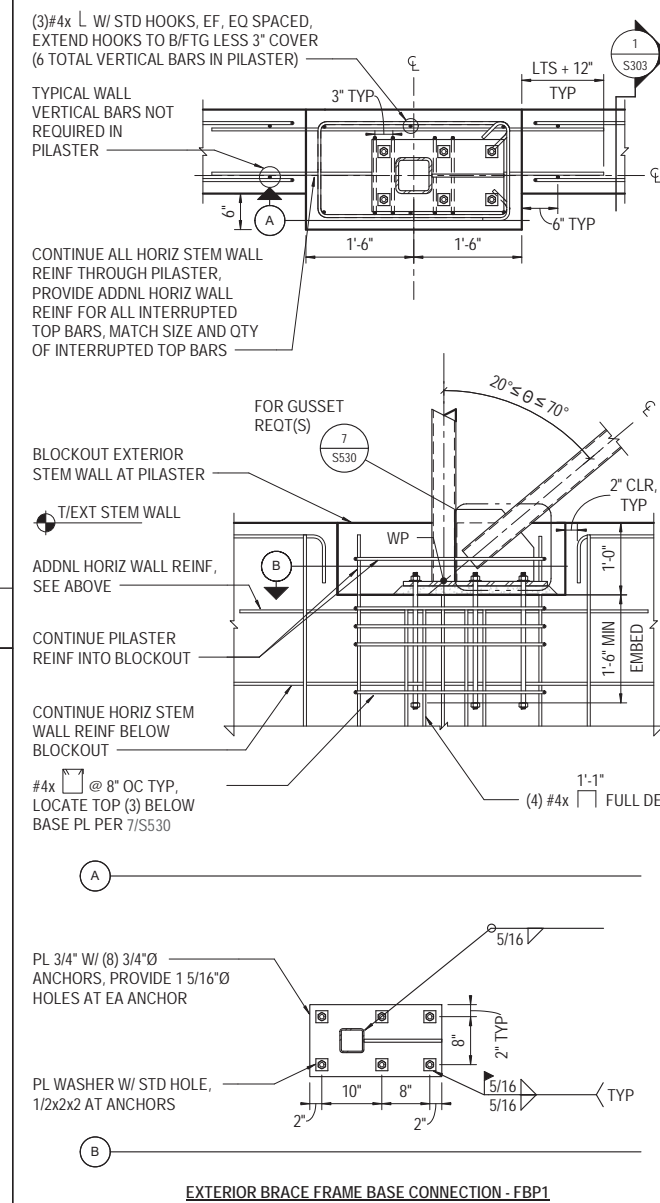
UNITED STATES
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FOREST SERVICE

R2
ROCKY MOUNTAIN
REGION

STAMPS, LOGOS, AND SEALS

10 3/4" = 1'-0" INTERIOR BRACE FRAME CONN - 2

7	3/4" = 1'-0"	INTERIOR BRACE FRAME BASE CONN
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NO:	ISSUED FOR:	DATE:
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PROJECT NAME
**ASPEN-SOPRIS
RANGER DISTRICT
OFFICE**

ASPEN / SOPRIS RANGER DISTRICT

DRAWING TITLE

BRACED FRAME DETAILS

ARCHIVE
NO. 100% CONSTRUCTION DOCUMENTS

DESIGNER
GR
CHECKED
SM

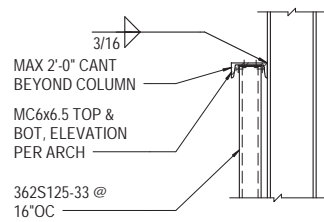
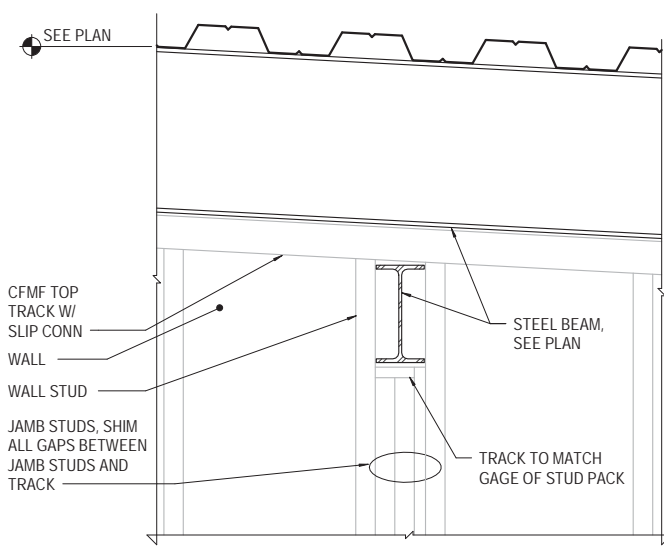
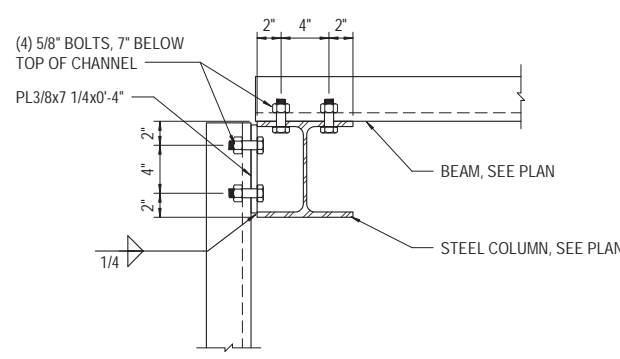

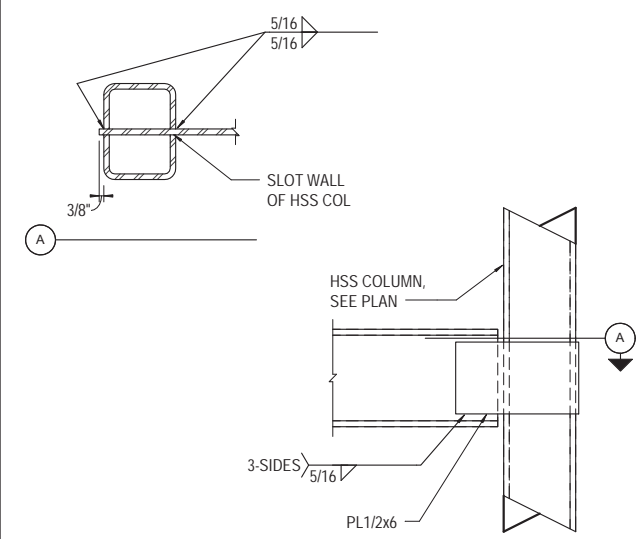
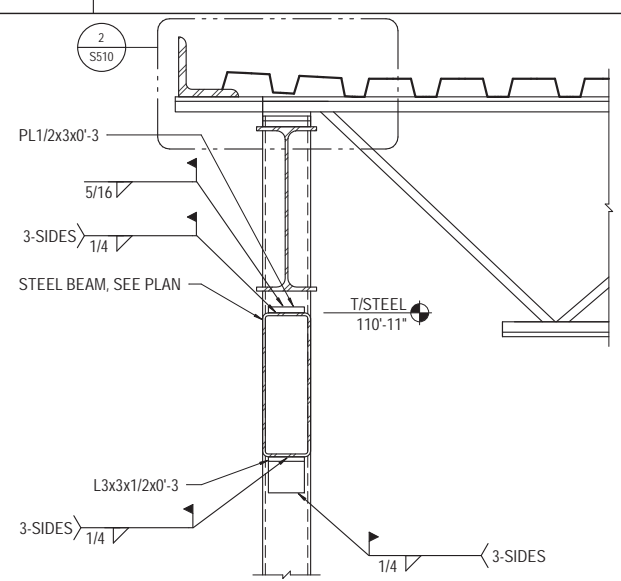
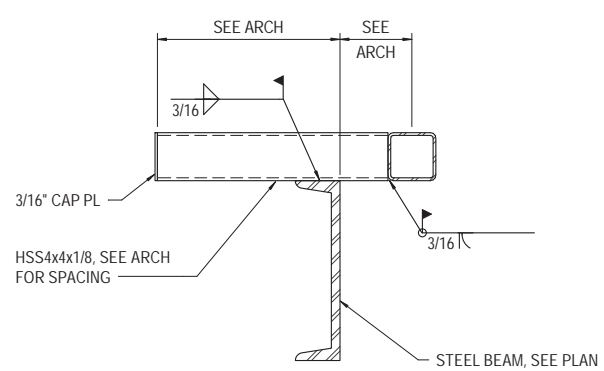

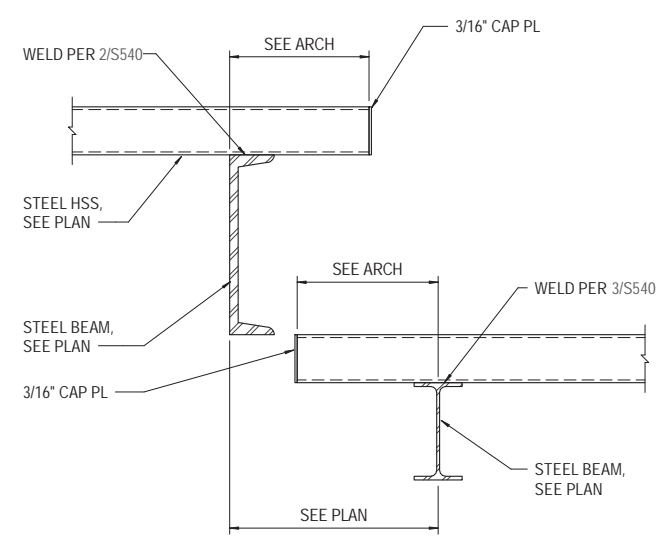
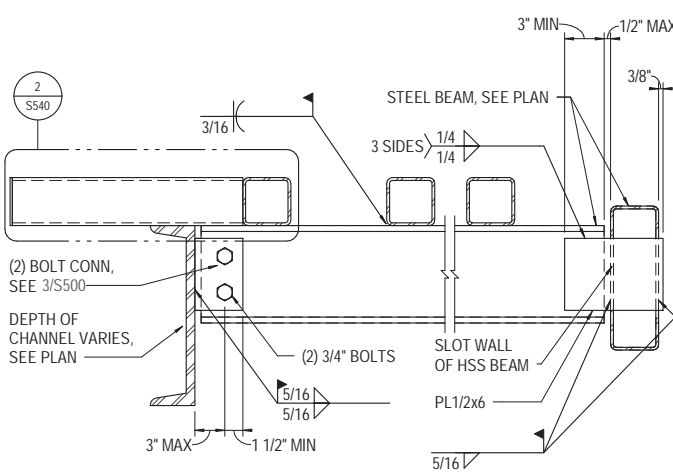
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S530

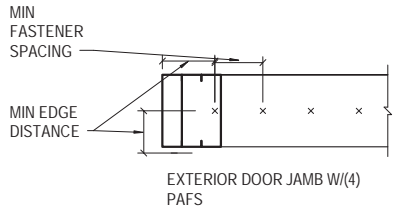
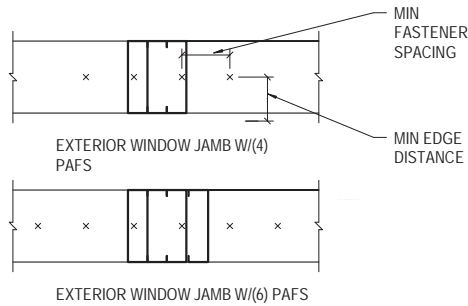
DATE
07/09/2020

SHEET
37 OF 119

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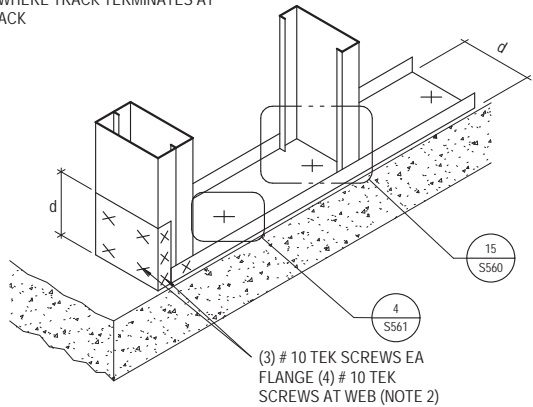
								 UNITED STATES DEPARTMENT OF AGRICULTURE FOREST SERVICE	
		7 3/4" = 1'-0" PATIO SCREEN		4 1 1/2" = 1'-0" STEEL BEAM TO LG STUD PACK		1 1 1/2" = 1'-0" CHANNEL TO COLUMN CONN		R2 ROCKY MOUNTAIN REGION	
									
		8 1 1/2" = 1'-0" KNIFE PL THROUGH HSS MOMENT CONNECTION		5 1 1/2" = 1'-0" HSS BEAM TO OUTSIDE OF HSS COLUMN		2 1 1/2" = 1'-0" CANOPY OVERHANG CONN		NO: ISSUED FOR: DATE:	
						6 1 1/2" = 1'-0" CANOPY STEP		3 1 1/2" = 1'-0" CANOPY MOMENT CONN	
								PROJECT NAME ASPEN-SOPRIS RANGER DISTRICT OFFICE	
								ASPEN / SOPRIS RANGER DISTRICT	
								DRAWING TITLE CANOPY DETAILS	
								ARCHIVE NO. 100% CONSTRUCTION DOCUMENTS	
								DESIGNER GR	SUB SHEET NO. S540
								CHECKED SM	
								DATE 07/09/2020	SHEET 88 OF 119

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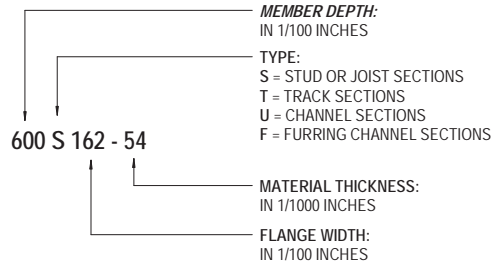
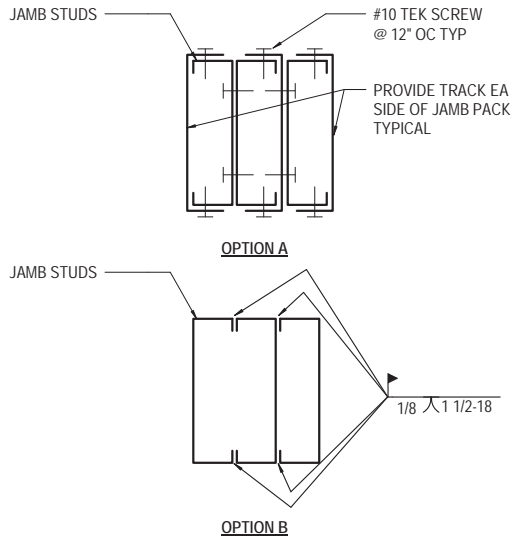
LOCATION	NUMBER OF FASTENERS REQUIRED
TYP FRAMING	(1) 0.157"Ø PAF @ 24" OC
JAMBS	(2) 0.157"Ø PAFs PER JAMB STUD

- NOTES:**
- 1 1/4" EMBED REQUIRED FOR ALL PAFs
 - CUT AND BEND TRACK UP AT EXTERIOR JAMBS WHERE TRACK TERMINATES AT JAMB PACK



JAMB SCHEDULE	
OPNG WIDTH, W	REQUIRED STUDS
W≤4'-0"	(2) 600S162-43
4'-0"≤W≤9'-6"	(3) 600S162-43

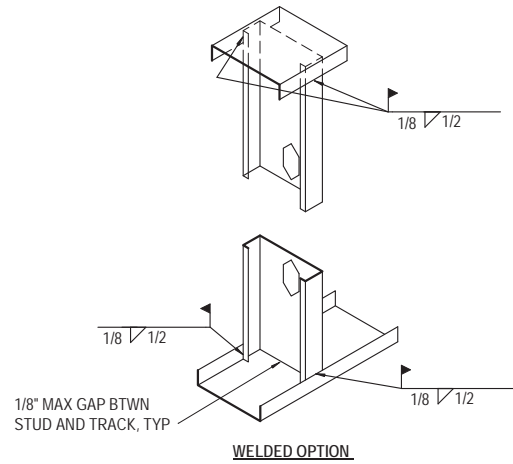
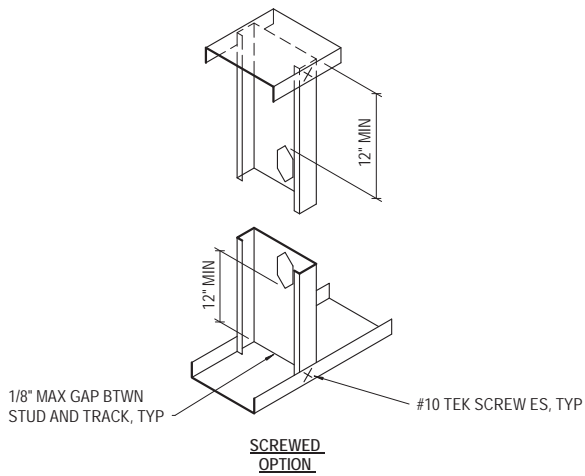
- NOTES:**
- SEE S002 FOR CORNER AREAS



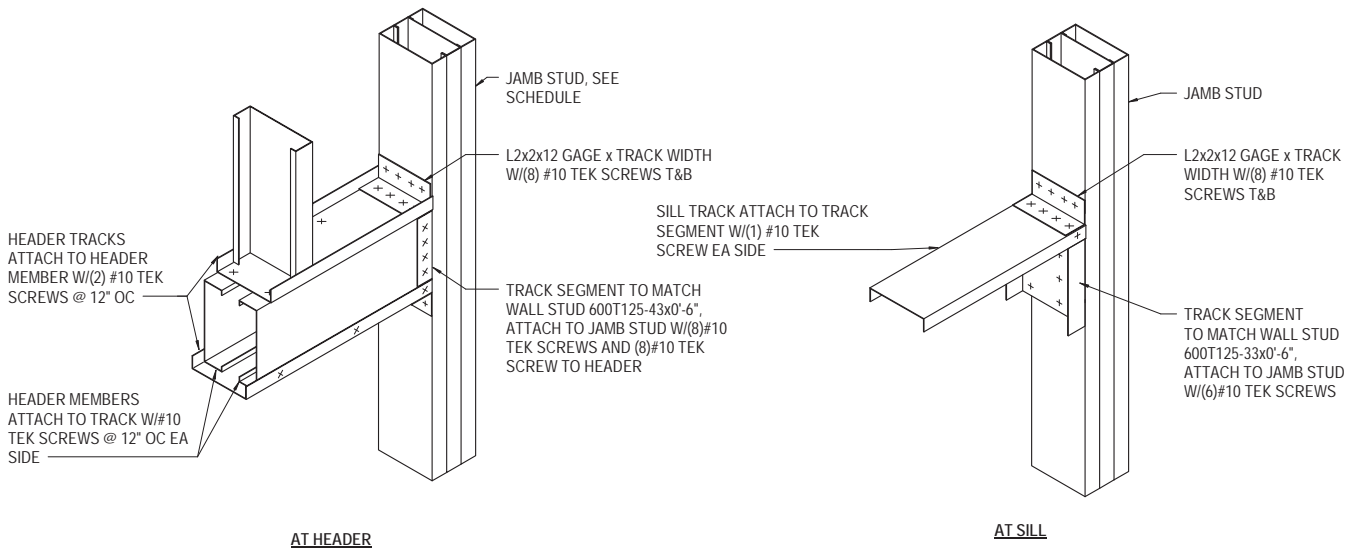
TYPICAL ANNOTATION			
WALL SCHEDULE			
HEIGHT	TYPICAL CONDITION	CORNER CONDITION	TOP & BOT TRACK
	BRICK & NONBRICK		
≤12'-0"	600S162-43 @ 24" OC		600T125-33 (BOT ONLY, SEE NOTE 1)
PARAPET (≤2'-9")	600S162-43 @ 24" OC		600T125-33

- NOTES:**
- SEE DETAILS FOR SPECIFIC TOP TRACK CONDITIONS
 - SEE S002 FOR CORNER LOCATIONS

7 NO SCALE TYP CF JAMB SCHEDULE



15 NO SCALE TYP CF STUD TO BOTTOM TRACK



HEADER AND SILL SCHEDULE		
OPNG WIDTH, W	HEADER	SILL
W≤4'-0"	(2) 600S162-43 AND (2) 600T125-33	600T125-33
4'-0"≤W≤7'-0"	(2) 600S162-43 AND (2) 600T125-33	600T125-43
7'-0"≤W≤9'-6"	(2) 600S162-43 AND (2) 600T125-43	N/A

- NOTES:**
- SEE S002 FOR CORNER AREAS
 - FILL JAMBS AND HEADERS WITH BATT INSULATION AS INDICATED ON ARCHITECTURAL DRAWINGS

6 NO SCALE TYP CF HEADER

1 NO SCALE TYP CF WALL SCHEDULE



UNITED STATES
DEPARTMENT OF AGRICULTURE
FOREST SERVICE

R2
ROCKY MOUNTAIN
REGION

STAMPS, LOGOS, AND
SEALS



NO: ISSUED FOR: DATE:

PROJECT NAME
**ASPEN-SOPRIS
RANGER DISTRICT
OFFICE**

ASPEN / SOPRIS RANGER DISTRICT

DRAWING TITLE

**CF FRAMING
DETAILS**

ARCHIVE
NO. 100% CONSTRUCTION DOCUMENTS

DESIGNER
GR
CHECKED
SM
SUB SHEET
NO.
S560

DATE
07/09/2020
SHEET
89 OF **119**

13 NO SCALE TYP CF BOTTOM TRACK TO CONC

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10	NO SCALE	HSS TO LG STUD PACK	7	1 1/2" = 1'-0"	TYPICAL VERTICAL DEFLECTION CONNECTION	4	3" = 1'-0"	TYP CF FASTENER DETAILS						
									NO: ISSUED FOR: DATE:			PROJECT NAME ASPEN-SOPRIS RANGER DISTRICT OFFICE		
			8	1 1/2" = 1'-0"	VERTICAL DEFLECTION CONNECTION AT JAMB LOCATIONS	5	1" = 1'-0"	TYP CF WALL BRIDGING						
									NOTES: 1. REINFORCING REQUIRED WHEN PUNCHOUT LOCATION SPECIFIED IN OTHER DETAILS CANNOT BE ACHIEVED 2. PUNCHOUT REINFORCING INDICATED IS A MINIMUM, FINAL REINFORCING SHALL BE DESIGNED BY CONTRACTOR			ARCHIVE NO. 100% CONSTRUCTION DOCUMENTS		
			9	1 1/2" = 1'-0"	CF HEADER SUPPORTING CHANNEL	6	3/8" = 1'-0"	TYP CF WALL FRAMING				3	3/4" = 1'-0"	TYP CF PUNCHOUT REINFORCING
										DRAWING TITLE CF FRAMING DETAILS		DESIGNER GR CHECKED SM DATE 07/09/2020		
										SUB SHEET NO. S561		SHEET OF 119		

MECHANICAL LEGEND (NOTE: NOT ALL SYMBOLS SHOWN ARE USED ON THESE DRAWINGS)													
ABBR.	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	ABBR.	SYMBOL	DESCRIPTION	ABBR.	SYMBOL	DESCRIPTION	ABBR.	SYMBOL	DESCRIPTION
- PLUMBING -			- CONTROLS -		- PIPING -			- PIPING -			- HVAC -		
RD		ROOF DRAIN	ZONE#	THERMOSTAT WITH ZONE CALLOUT			PIPE DOWN			GAS METER	SA		POSITIVE PRESSURE DUCT UP
OD		OVERFLOW DRAIN	ZONE#	HUMIDITY SENSOR WITH ZONE CALLOUT			PIPE UP			WATER METER	SA		POSITIVE PRESSURE DUCT DOWN
AD		AREA DRAIN	ZONE#	TEMP SENSOR WITH ZONE CALLOUT			TEE OUTLET UP			2-WAY CONTROL VALVE	EA/RA		NEGATIVE PRESSURE DUCT UP
		DOWNSPOUT NOZZLE		CARBON MONOXIDE DETECTOR			TEE OUTLET DOWN			3-WAY CONTROL VALVE	EA/RA		NEGATIVE PRESSURE DUCT DOWN
FS		FLOOR SINK		CARBON DIOXIDE SENSOR	HWS		HEATING HOT WATER SUPPLY			2-WAY CONTROL BALL VALVE	OA		OUTSIDE AIR INTAKE DUCT UP
FD		FLOOR DRAIN		DIGITAL INPUT	HWR		HEATING HOT WATER RETURN			BALANCE VALVE	OA		OUTSIDE AIR INTAKE DUCT DOWN
FCO		FLOOR CLEANOUT		ANALOG INPUT	CWS		CHILLED WATER SUPPLY			FLOW MEASURING STATION			ROUND DUCT UP
GCO		GRADE CLEANOUT		DIGITAL OUTPUT	CWR		CHILLED WATER RETURN			BALL VALVE			ROUND DUCT DOWN
WCO		WALL CLEANOUT		ANALOG OUTPUT	CTS		COOLING TOWER SUPPLY			BUTTERFLY VALVE			CONICAL FITTING WITH DAMPER
		HORIZONTAL CLEANOUT		BI-DIRECTIONAL NETWORK CONNECTION	CTR		COOLING TOWER RETURN			CHECK VALVE			ECCENTRIC FITTING WITH DAMPER
HB		HOSE BIBB		FLOW ARROW	LPS		LOW PRESSURE STEAM SUPPLY			GATE VALVE			CONICAL FITTING WITHOUT DAMPER
SA		SHOCK ABSORBER		FLOW SWITCH	LPR		LOW PRESSURE RETURN			GLOBE VALVE			ECCENTRIC FITTING WITHOUT DAMPER
		THERMOSTATIC RECIRCULATION VALVE		DUCT TEMPERATURE SENSOR	MPS		MEDIUM PRESSURE STEAM SUPPLY			PRESSURE REDUCING VALVE			ELBOW WITH TURNING VANES
RPBP		REDUCED PRESSURE BACKFLOW PREVENTER		DUCT AVERAGING TEMP. SENSOR	MPR		MEDIUM PRESSURE RETURN			PRESSURE RELIEF VALVE			ELBOW WITHOUT TURNING VANES
DCVA		DOUBLE CHECK VALVE ASSEMBLY		WELL MOUNTED TEMPERATURE SENSOR	HPS		HIGH PRESSURE STEAM SUPPLY			HOSE END DRAIN VALVE			LONG RADIUS ELBOW
				MOTORIZED CONTROL DAMPER	HPR		HIGH PRESSURE RETURN			STRAINER			SHORT RADIUS ELBOW
				TEMPERATURE LOW LIMIT THERMOSTAT	CDS		CONDENSER WATER SUPPLY			STRAINER WITH BLOW DOWN VALVE			SUPPLY DIFFUSER
				DUCT SMOKE DETECTOR	CDR		CONDENSER WATER RETURN			PLUG VALVE			SUPPLY DIFFUSER ROUND NECK
				DAMPER\VALVE END SWITCH	RL		REFRIGERANT LIQUID			GAS SHUTOFF VALVE			SUPPLY DIFFUSER SQUARE NECK
				DIFFERENTIAL PRESSURE SWITCH	RS		REFRIGERANT SUCTION			SOLENOID VALVE			EXHAUST/RETURN GRILLE SQUARE NECK
				HIGH PRESSURE SWITCH	RHG		REFRIGERANT HOT GAS			PRESSURE REGULATING VALVE			EXHAUST/RETURN GRILLE ROUND NECK
				PRESSURE SWITCH MANUAL RESET	FOS		FUEL OIL SUPPLY			THERMOWELL			RETURN AIR GRILLE
				AQUASTAT	FOR		FUEL OIL RETURN			THERMOMETER WITH THERMOWELL			ROUND DIFFUSER
				MOTOR STARTER	FOV		FUEL OIL VENT			UNION			SLOT DIFFUSER
				CONTROL RELAY	CA		COMPRESSED AIR			VENTURI			FLEXDUCT
				VARIABLE FREQUENCY DRIVE	PC		PUMPED CONDENSATE			AUTOMATIC AIR VENT			DUCTWORK
				VARIABLE FREQUENCY DRIVE WITH BY-PASS	D		CONDENSATE OR EQUIPMENT DRAIN			MANUAL AIR VENT			MANUAL VOLUME DAMPER
				ELECTRIC MOTOR	GHXS		GEO THERMAL HX SUPPLY			VACUUM BREAKER			FIRE DAMPER 1-1/2 HOUR UNLESS NOTED OTHERWISE
				TEMPERATURE CONTROLLER	GHXR		GEO THERMAL HX RETURN			THERMOMETER			FIRE/SMOKE DAMPER 1-1/2 HOUR UNLESS NOTED OTHERWISE
				LEVEL TRANSMITTER	DCW		DOMESTIC COLD WATER			GAUGE			SMOKE DAMPER
				PRESSURE TRANSMITTER	DHW		DOMESTIC HOT WATER			GAUGE WITH BALL VALVE			MOTORIZED DAMPER
				DIFFERENTIAL PRESSURE TRANSMITTER	DHWC		DOMESTIC HOT WATER RE-CIRCULATING			DIFFERENTIAL PRESSURE GAUGE			SECURITY BARRIER
				FLOW TRANSMITTER	DTW		DOMESTIC TEMPERED WATER			PIPE ANCHOR			ACCESS PANEL (SIZE)
				ELECTRIC\PNEUMATIC TRANSDUCER	DI		DEIONIZED WATER			PIPE GUIDE			PUMP
				CURRENT SWITCH/TRANSMITTER	V		DOMESTIC VENT PIPING			FLEX CONNECTION			DUCT BREAK
				ANNUNCIATOR	AV		ACID VENT PIPING			PIPE CAP			
				FIRE ALARM CONTROL PANEL	W		SUSPENDED WASTE			PIPE BREAK			
				CONTROL ADDRESSABLE MODULE	AW		BURIED WASTE			FLOW ARROW			
				MONITOR ADDRESSABLE MODULE	GW		GREASE WASTE			STEAM TRAP (INVERTED BUCKET TRAP)			
				EMERGENCY STOP RELAY	OST		OVERFLOW STORM DRAIN			STEAM TRAP (THERMOSTATIC TRAP)			
				LEVEL CONTROLLER	ST		SUSPENDED STORM DRAIN			STEAM TRAP (FLOAT AND THERMOSTATIC TRAP)			
				EMERGENCY POWER OFF	ST		BURIED STORM DRAIN						
				AIR FLOW SWITCH	G		NATURAL GAS						
- LABORATORY/MEDICAL SERVICES -													
O2		OXYGEN PIPING		DUCT SMOKE DETECTOR	CDR		CONDENSER WATER RETURN						
VAC		VACUUM PIPING		DAMPER\VALVE END SWITCH	RL		REFRIGERANT LIQUID						
N2O		NITROUS OXIDE PIPING		DIFFERENTIAL PRESSURE SWITCH	RS		REFRIGERANT SUCTION						
N		NITROGEN PIPING		HIGH PRESSURE SWITCH	RHG		REFRIGERANT HOT GAS						
MA		MEDICAL AIR PIPING		PRESSURE SWITCH MANUAL RESET	FOS		FUEL OIL SUPPLY						
H		HYDROGEN PIPING		PRESSURE SWITCH MANUAL RESET	FOR		FUEL OIL RETURN						
NL		LIQUID NITROGEN PIPING		MOTOR STARTER	FOV		FUEL OIL VENT						
LA		LABORATORY COMPRESSED AIR PIPING		CONTROL RELAY	CA		COMPRESSED AIR						
SA		SCAVENGE AIR		VARIABLE FREQUENCY DRIVE	PC		PUMPED CONDENSATE						
WAGD		WASTE ANESTHETIC GAS DISPOSAL		VARIABLE FREQUENCY DRIVE WITH BY-PASS	D		CONDENSATE OR EQUIPMENT DRAIN						
CO2		CARBON DIOXIDE		VARIABLE FREQUENCY DRIVE WITH BY-PASS	GHXS		GEO THERMAL HX SUPPLY						
		OXYGEN SERVICE OUTLET		ELECTRIC MOTOR	GHXR		GEO THERMAL HX RETURN						
		VACCUM SERVICE OUTLET		TEMPERATURE CONTROLLER	DCW		DOMESTIC COLD WATER						
WAGD		WASTE ANESTHESIA GAS DISPOSAL OUTLET		LEVEL TRANSMITTER	DHW		DOMESTIC HOT WATER						
		NITROUS OXIDE SERVICE OUTLET		PRESSURE TRANSMITTER	DHWC		DOMESTIC HOT WATER RE-CIRCULATING						
		NITROGEN SERVICE OUTLET		DIFFERENTIAL PRESSURE TRANSMITTER	DTW		DOMESTIC TEMPERED WATER						
		NATURAL GAS SERVICE OUTLET		FLOW TRANSMITTER	DI		DEIONIZED WATER						
		LABORATORY / MEDICAL AIR SERVICE OUTLET		ELECTRIC\PNEUMATIC TRANSDUCER	V		DOMESTIC VENT PIPING						
				ANNUNCIATOR	AV		ACID VENT PIPING						
				FIRE ALARM CONTROL PANEL	W		SUSPENDED WASTE						
				CONTROL ADDRESSABLE MODULE	AW		BURIED WASTE						
				MONITOR ADDRESSABLE MODULE	GW		GREASE WASTE						
				EMERGENCY STOP RELAY	OST		OVERFLOW STORM DRAIN						
				LEVEL CONTROLLER	ST		SUSPENDED STORM DRAIN						
				EMERGENCY POWER OFF	ST		BURIED STORM DRAIN						
				AIR FLOW SWITCH	G		NATURAL GAS						

APPLICABLE CODES			
AHJ: US FOREST SERVICE			
FIRE AUTHORITY: US FOREST SERVICE			
REMODEL	<input type="checkbox"/>	NEW	<input checked="" type="checkbox"/>
YEAR	CODE		
2018	INTERNATIONAL BUILDING CODE		
2018	INTERNATIONAL MECHANICAL CODE		
2018	INTERNATIONAL PLUMBING CODE		
2018	INTERNATIONAL ENERGY CONSERVATION CODE		
2018	INTERNATIONAL FIRE CODE		
2017	NATIONAL ELECTRICAL CODE		






UNITED STATES
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FOREST SERVICE

R2
ROCKY MOUNTAIN
REGION

STAMPS, LOGOS, AND SEALS



		
		
		
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PROJECT NAME

**ASPEN-SOPRIS
RANGER DISTRICT
OFFICE**

ASPEN / SOPRIS RANGER DISTRICT

DRAWING TITLE

**MECHANICAL
LEGEND**

ARCHIVE
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DESIGNER M. SWANSON	SUB SHEET NO. M000
CHECKED M. JELINSKE	

DATE	SHEET
07/09/2020	91 OF 119

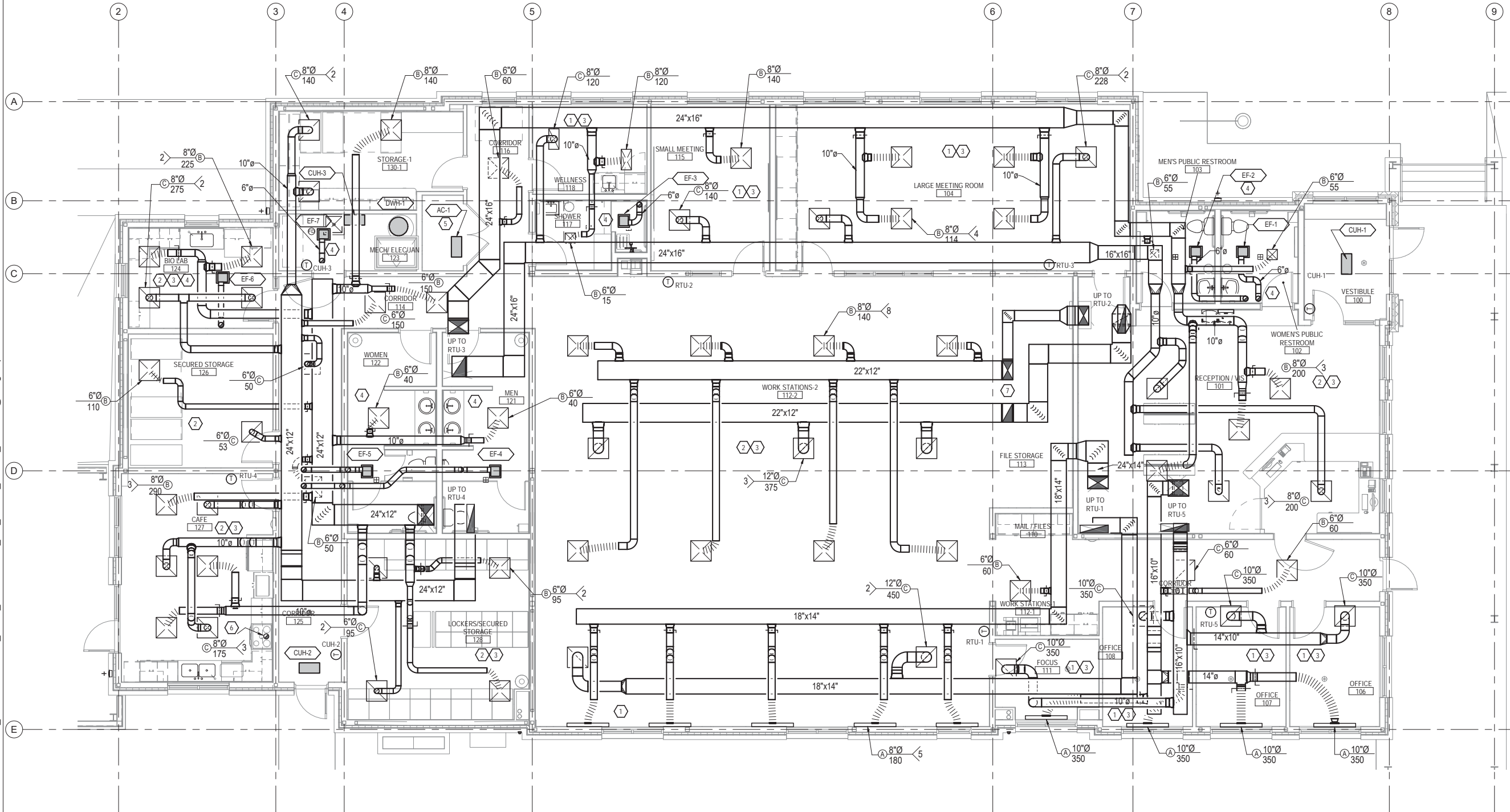
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SHEET NOTES

1. ALL DUCTWORK DIMENSIONS ARE FREE AND CLEAR INSIDE DIMENSIONS.
2. COORDINATE GRD BORDER TYP WITH ARCHITECTURAL REFLECTED CEILING PLAN.
3. PROVIDE REMOTE QUADRANT DAMPERS WHEN MANUAL BALANCING DAMPERS CAN'T BE LOCATED ABOVE AN ACCESSIBLE CEILING

KEYNOTES

- 1 PROVIDE SLOT SUPPLY DIFFUSERS EQUAL TO PRICE INDUSTRIES MODEL SDB DIFFUSER. DIRECT HALF OF THE SLOTS TOWARD THE WINDO AND THE OTHER HALF TO THE SPACE.
- 2 PROVIDE 2X2 CONE DIFFUSER EQUAL TO PRICE INDUSTRIES MODEL SCD DIFFUSER. DIFFUSER SHALL BE 4-WAY THROW UNLESS INDICATED OTHERWISE.
- 3 PROVIDE PERFORATED 2X2 RETURN GRILLE EQUAL TO PRICE INDUSTRIES MODEL PDDR GRILLE.
- 4 EXHAUST FANS SHALL BE DUCTED THROUGH ROOF TO GOOSENECK TERMINATION PER DETAIL 1-M501
- 5 PIPE DISCHARGE FROM AC-1 CONDENSATE PUMP TO MOP BASIN IN JANITOR CLOSET.
- 6 PROVIDE 4" DUCT TO THE EXTERIOR FOR KITCHEN VENT HOOD WITH GOOSENECK TERMINATION PER DETAIL 1-M501
- 7 22"x12" SUPPLY AND RETURN DUCT UP TO HIGH CEILING SPACE



1 MAIN FLOOR MECHANICAL PLAN

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



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**FIRST FLOOR HVAC
PLAN**

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SHOFFNER
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DATE
07/09/2020

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NO.
M101

SHEET
92 OF **119**

ROOF TOP UNIT SEQUENCE OF OPERATION

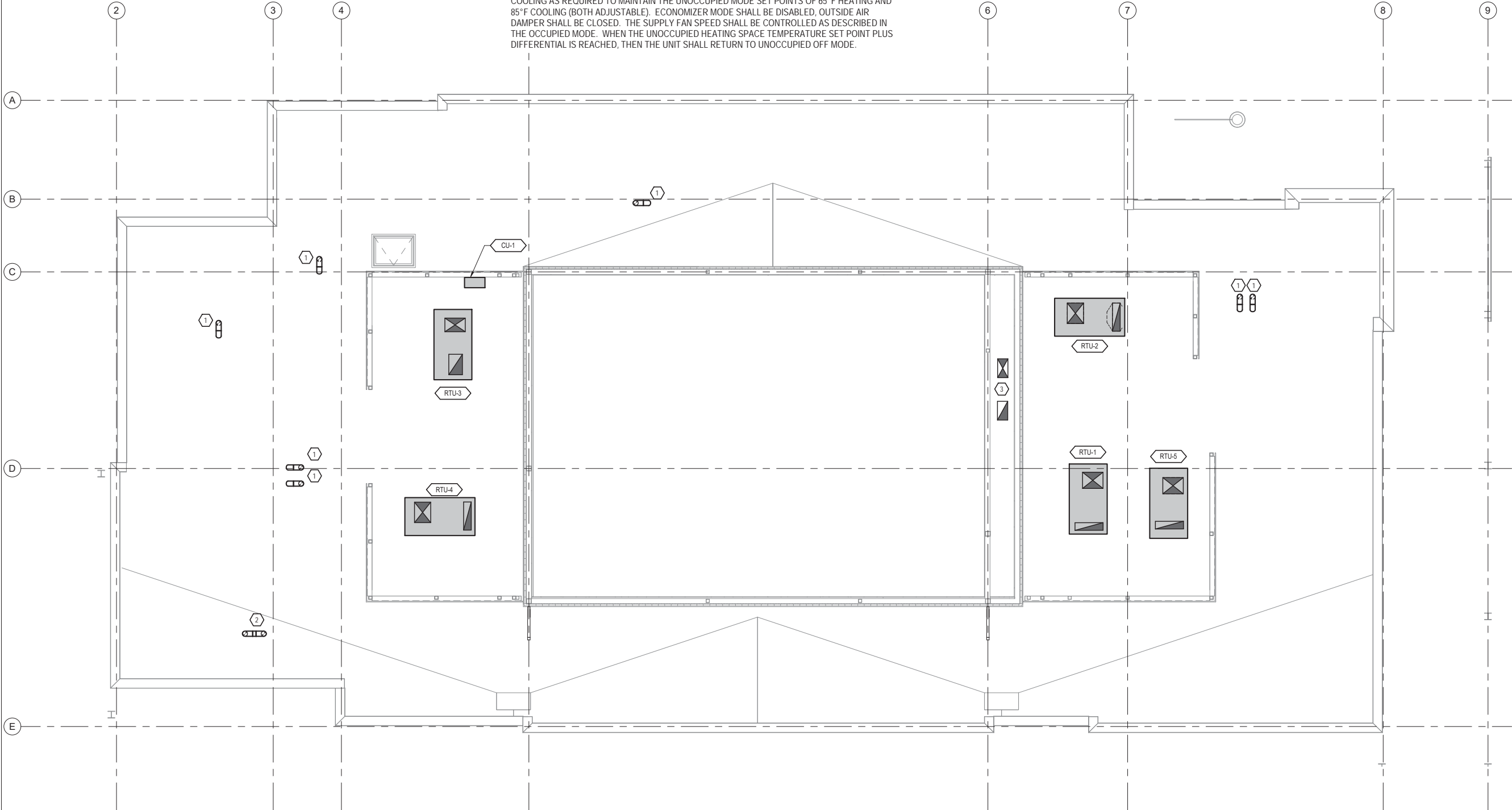
- A. THE OCCUPANCY MODE (OCCUPIED-UNOCCUPIED) SHALL BE DETERMINED THROUGH A USER-ADJUSTABLE, SEVEN-DAY GRAPHICAL SCHEDULE WITH THE FOLLOWING FEATURES: TWO OCCUPIED/UNOCCUPIED MODES PER DAY, ADJUSTABLE TEMPERATURE SET POINTS (OCCUPIED HEAT AND COOL AND UNOCCUPIED HEAT AND COOL), AND TEMPORARY OVERRIDE CAPABILITY. THE START TIME SHALL BE ADJUSTED BY AN OPTIMUM START ROUTINE SUCH THAT THE UNIT IS STARTED AT THE LATEST POSSIBLE TIME TO ALLOW THE SPACE TEMPERATURES TO BE AT THE OCCUPIED SET POINT AT THE TIME OF OCCUPANCY.
- B. OCCUPIED MODE:
- a. THE SUPPLY FAN SHALL RUN CONTINUOUSLY.
 - THE SUPPLY FAN SHALL BE ENERGIZED.
 - WHENEVER THE SUPPLY FAN IS ENERGIZED, THE RETURN FAN SHALL BE ENERGIZED. THE RETURN FAN SPEED SHALL MODULATE TO MAINTAIN THE RELIEF AIR PLENUM PRESSURE SET POINT OF 0.10 INCH W.C. (ADJUSTABLE). THE RELIEF AIR DAMPER SHALL MODULATE TO MAINTAIN THE SPACE STATIC PRESSURE SET POINT OF 0.02 INCH W.C. (ADJUSTABLE) REFERENCED TO OUTSIDE AIR STATIC PRESSURE.

ROOF TOP UNIT SEQUENCE OF OPERATION CONTINUED

- b. THE 2-STAGE GAS BURNER, OUTSIDE AIR ECONOMIZER (OUTSIDE AIR, RETURN AIR AND RELIEF DAMPERS), AND 2-STAGE DX COOLING SHALL MODULATE (CYCLE) IN SEQUENCE TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SETPOINT.
 - ECONOMIZER COOLING IS ENABLED WHENEVER THE OUTSIDE AIR DRY BULB TEMPERATURE IS LESS THAN THE RETURN AIR DRY BULB TEMPERATURE. WHEN THE OUTSIDE AIR DRY BULB IS GREATER THAN THE RETURN AIR DRY BULB PLUS DEADBAND, ECONOMIZER COOLING IS DISABLED. PROVIDE DEADBAND TO PREVENT GAS BURNER OPERATION WHENEVER ECONOMIZER COOLING IS ENABLED. THERE SHALL BE A MIXED AIR, LOW-LIMIT FUNCTION TO MODULATE THE MIXED AIR DAMPERS CLOSED TO PREVENT THE MIXED AIR TEMPERATURE FROM DROPPING BELOW THE MIXED AIR LOW LIMIT SET POINT OF 45°F (ADJUSTABLE).
 - THE MINIMUM OUTSIDE AIR DAMPER SHALL MODULATE TO MAINTAIN FLOW SET POINT.
 - PROVIDE DEADBAND BETWEEN HEATING AND COOLING. WHEN THE OUTDOOR AIR TEMPERATURE IS GREATER THAN THE ECONOMIZER ENABLE SET POINT, THE OUTSIDE AIR DAMPERS SHALL CLOSE TO MINIMUM POSITION.
- c. UNOCCUPIED MODE:
 - a. UNOCCUPIED OFF: THE SUPPLY AND RETURN FANS SHALL BE DE-ENERGIZED EXCEPT WHEN OPERATION IS CALLED FOR AS DESCRIBED BELOW. MINIMUM AND MAXIMUM OUTSIDE AIR DAMPERS AND RELIEF DAMPERS SHALL BE CLOSED AND RETURN AIR DAMPER OPEN.
 - b. THE SUPPLY FAN AND RETURN FAN SHALL CYCLE IN RESPONSE TO A DEMAND FOR HEATING OR COOLING AS REQUIRED TO MAINTAIN THE UNOCCUPIED MODE SET POINTS OF 65°F HEATING AND 85°F COOLING (BOTH ADJUSTABLE). ECONOMIZER MODE SHALL BE DISABLED, OUTSIDE AIR DAMPER SHALL BE CLOSED. THE SUPPLY FAN SPEED SHALL BE CONTROLLED AS DESCRIBED IN THE OCCUPIED MODE. WHEN THE UNOCCUPIED HEATING SPACE TEMPERATURE SET POINT PLUS DIFFERENTIAL IS REACHED, THEN THE UNIT SHALL RETURN TO UNOCCUPIED OFF MODE.

KEYNOTES

- 1 DUCT WORK GOOSENECK PENETRATION THRU ROOF, SEE DETAIL
- 2 DUCTWORK EXHAUST FROM RANGE HOOD BY ARCHITECT. COORDINATE WITH HOOD PROVIDED FOR REQUIREMENTS.
- 3 22"x12" SUPPLY AND RETURN DUCT UP IN CHASE TO HIGH CEILING SPACE FROM LOWER CEILING SPACE.



ROOF MECHANICAL PLAN

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



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ASPEN / SOPRIS RANGER DISTRICT

DRAWING TITLE
ROOF HVAC PLAN

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DESIGNER SHOFFNER	SUB SHEET NO. M201
CHECKED M. JELINSKE	
DATE 07/09/2020	SHEET 93 OF 119

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ASPEN / SOPRIS RANGER DISTRICT

DRAWING TITLE

**MECHANICAL
SCHEDULES**

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DESIGNER
M. SWANSON

CHECKED
M. JELINSKE

SUB SHEET
NO.

M401

DATE
07/09/2020

SHEET
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AIR HANDLING UNIT SCHEDULE

TAG	PURPOSE	TYPE	MAX.	MIN.	SUPPLY FAN SECTION										RETURN/EXHAUST/RELIEF FAN SECTION											
			OSA CFM	OSA CFM	TOTAL CFM	TSP IN. W.G.	ESP IN. W.G.	RPM	MAX BHP	MOTOR HP	DIA	TYPE	VFD Y/N	VFD BYPASS	TOTAL CFM	ARRANGE MENT	TSP IN. W.G.	ESP IN. W.G.	RPM	MAX BHP	MOTOR HP	DIA	TYPE	VFD Y/N	VFD BYPASS	
RTU-1	OFFICES		1460	75	1460	1.96	0.50	1877	0.91	2.00	18.50	PLENUM	YES	NO	1,460	EXHAUST	0.67	0.50	1670	0.43	1.00	16.00	PLENUM	YES	NO	
RTU-2	RECEPTION		1525	200	1525	1.83	0.50	1570	0.86	2.00	18.50	PLENUM	YES	NO	1,524	EXHAUST	0.48	0.50	1524	0.31	1.00	16.00	PROP	YES	NO	
RTU-3	MEETING		1825	410	1825	2.34	0.80	1798	1.30	2.00	18.50	PLENUM	YES	NO	1,825	EXHAUST	0.46	0.25	1627	0.37	1.00	16.00	PROP	YES	NO	
RTU-4	BACK OF HOUSE		1775	180	1775	2.01	0.80	1,686	1.08	2.00	18.50	PLENUM	YES	NO	1,651	EXHAUST	0.50	0.30	1651	0.39	1.00	16.00	AXIAL	YES	NO	
RTU-5	OFFICES		775	75	775	1.61	0.50	1466	0.42	1.00	18.50	PLENUM	YES	NO	755	EXHAUST	0.62	0.50	1065	0.28	1.00	10.00	PLENUM	YES	NO	

GENERAL NOTES APPLIES TO ALL UNITS:

- A. PERFORMANCE IS AT SITE CONDITIONS
B. APD ON ALL COILS AND COMPONENTS IS AT COOLING TOTAL CFM
ALL OTHER PERFORMANCE IS AT SPECIFIED CFM FOR THAT COMPONENT
C. PROVIDE ALL UNITS WITH A 24" HIGH ROOF CURB.
D. PROVIDE ALL UNITS WITH OUTSIDE AIR INTAKE HOOD

- D. DIRTY FILTER APD SHALL BE INCLUDED IN INTERNAL STATIC PRESSURE
E. TOTAL STATIC PRESSURE (TSP) IS THE MAXIMUM ALLOWED. SELECTIONS MAY BE MADE WITH LESS TSP REQUIRED
F. ALL FANS SHALL BE MIN FAN EFFICIENCY GRADE FEG - 67 AND SELECTED WITHIN 15% OF THEIR MAX EFFICIENCY POINT
G. AIR HANDLERS MAY CONTAIN CAPACITY FOR RESERVE AND DUCT LEAKAGE. BALANCE TO PLAN CFM
H. PROVIDE ONE 120V JUNCTION BOX FOR LIGHTING/OUTLET POWER AND ONE FOR CONTROLS
I. EQUIPMENT WITH 208V NAMEPLATES SHALL HAVE MOTORS SUITABLE FOR
OPERATION AT 180 VOLTS OR PROVIDE 200V TO 208V TRANSFORMERS

AIR HANDLING UNIT SCHEDULE CONTINUED

TAG	PURPOSE	DX COOLING SECTION												INDIRECT GAS HEAT SECTION										PRE FILTERS				ELECTRICAL					PHYSICAL		MANUFACTURER		NOTES
		AREA SF	TOTAL MBH	SENS. MBH	EDB °F	EWB °F	LDB °F	LWB °F	ROWS	APD IN. W.G.	NUM. CIRC'S	NUM STAGES	REFRIG.	COND. AMBIENT	CFM	MBH INPUT	MBH OUTPUT	EDB °F	LDB °F	EFF.	FUEL	GAS PRESS.	APD IN. W.G.	AREA SF	MERV A	CLEAN APD	DIRTY APD	V	PH	FLA	MCA	OPD	LxWxH INCHES	WEIGHT LBS	AND MODEL		
RTU-1	OFFICES	5.3	36.3	32.2	78.8	61.8	52.7	52.1	3	0.13	1	2-STEP	R-410a	92	1460	60.00	38.7	64	95	80	NG		0.19	5.5	8	0.1	0.35	200	1	38	42	50	83"x 44" x 47"	915	AAON RQ 03	ALL	
RTU-2	RECEPTION	5.3	36.4	34.3	79.8	61.6	53.1	52.2	3	0.13	1	2-STEP	R-410a	92	1525	60.00	38.7	57.8	87	80	NG		0.2	5.5	8	0.1	0.35	200	1	38	42	50	83"x 44" x 47"	913	AAON RQ 03		
RTU-3	MEETING	5.3	48.3	46.2	82.6	61.1	51.1	50.7	3	0.23	1	2-STEP	R-410a	92	1825	100.00	65.0	50.5	92	80	NG		0.18	5.5	8	0.1	0.35	200	1	44	49	70	83"x 44" x 47"	984	AAON RQ 04		
RTU-4	BACK OF HOUSE	5.3	37.4	37.3	80.5	61.5	54.5	53.5	3.0	0.2	1.0	2-STEP	R-410a	92	1775	60.00	38.7	60.1	85.4	80	NG		0.3	5.5	8	0.1	0.35	200	1	38	42	50	83"x 44" x 47"	913	AAON RQ 03	ALL	
RTU-5	OFFICES	5.3	24.0	19	79.3	61.7	49.3	49.1	3	0.05	1	2-STEP	R-410a	92	775	60.00	38.7	60.5	120	80	NG		0.08	5.5	8	0.1	0.35	200	1	30	33	40	83"x 44" x 47"	852	AAON RQ 02	ALL	

UNIT SPECIFIC NOTES

- 1 PROVIDE WITH STAND ALONE CONTROLLER WITH TOUCH SCREEN USER INTERFACE. REFER TO PLAN FOR LOCATIONS TO THERMOSTATS
2 PROVIDE WITH IEEC-2015 FAULT DETECTION.
3 PROVIDE WITH PLENUM SUPPLY AND EXHAUST FANS
4 PROVIDE WITH SINGLE POINT POWER, 3RD PARTY PROVIDED SEPARATE EXHASUT IS NOT ALLOWED
5 PROVIDE WITH DOUBLE WALL CONSTRUCTION, WITH HINGED ACCESS
6 PROVIDE SHAFT GROUNDING RINGS ON ALL VFD CONTROLLED FAN MOTORS. MOTORS TO BE PREMEIUM EFFICIENT
7 PROVIDE WITH STAINLESS STEEL, MODULATING GAS BURNER, WITH 8:1 TURNDOWN
8 PROVIDE WITH WIND BRACKETS AND WIND CALCULATIONS

ELECTRIC GAS HEAT UNIT HEATER

TAG	DESCRIPTION	TYPE	CFM	ESP	IN. W.G.	NOTES
EH-1	RECEPTION	HEATER	1525	0.86	0.50	PROVIDE WITH 24" HIGH ROOF CURB
EH-2	MEETING	HEATER	1825	1.30	0.80	PROVIDE WITH 24" HIGH ROOF CURB
EH-3	BACK OF HOUSE	HEATER	1775	2.01	0.80	PROVIDE WITH 24" HIGH ROOF CURB

GENERAL NOTES

1. HEATER SHALL BE INSTALLED OUTSIDE
2. HEATER SHALL BE INSTALLED OUTSIDE
3. HEATER SHALL BE INSTALLED OUTSIDE
4. HEATER SHALL BE INSTALLED OUTSIDE

FAN SCHEDULE

TAG	DESCRIPTION	TYPE	CFM	ESP	IN. W.G.	NOTES
FAN-1	RECEPTION	FAN	1525	0.86	0.50	PROVIDE WITH 24" HIGH ROOF CURB
FAN-2	MEETING	FAN	1825	1.30	0.80	PROVIDE WITH 24" HIGH ROOF CURB
FAN-3	BACK OF HOUSE	FAN	1775	2.01	0.80	PROVIDE WITH 24" HIGH ROOF CURB
FAN-4	OFFICES	FAN	775	0.42	0.50	PROVIDE WITH 24" HIGH ROOF CURB
FAN-5	RECEPTION	FAN	1525	0.86	0.50	PROVIDE WITH 24" HIGH ROOF CURB
FAN-6	MEETING	FAN	1825	1.30	0.80	PROVIDE WITH 24" HIGH ROOF CURB
FAN-7	BACK OF HOUSE	FAN	1775	2.01	0.80	PROVIDE WITH 24" HIGH ROOF CURB
FAN-8	OFFICES	FAN	775	0.42	0.50	PROVIDE WITH 24" HIGH ROOF CURB

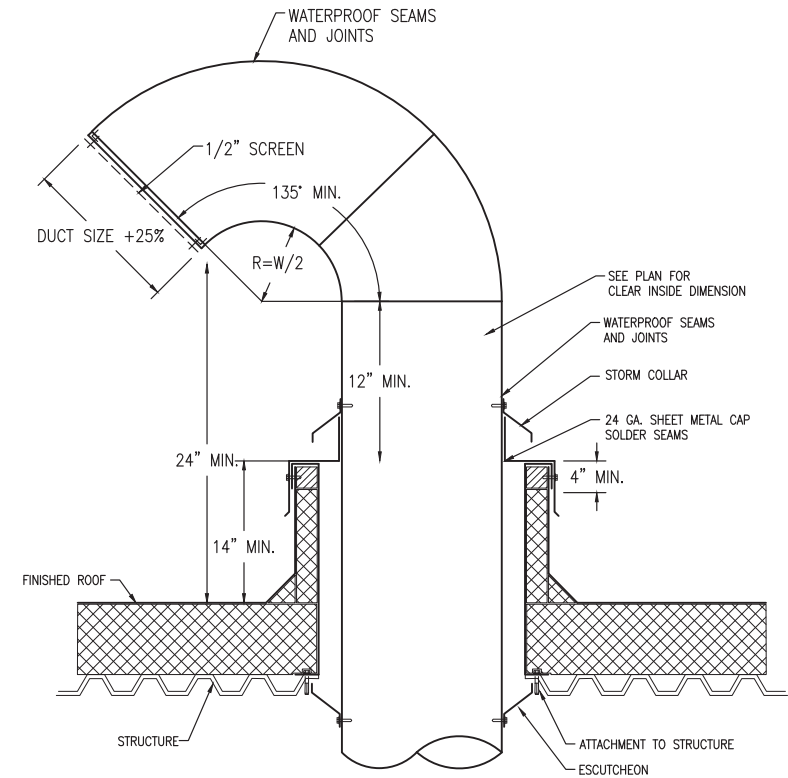
GENERAL NOTES

1. FAN SHALL BE INSTALLED OUTSIDE
2. FAN SHALL BE INSTALLED OUTSIDE
3. FAN SHALL BE INSTALLED OUTSIDE
4. FAN SHALL BE INSTALLED OUTSIDE

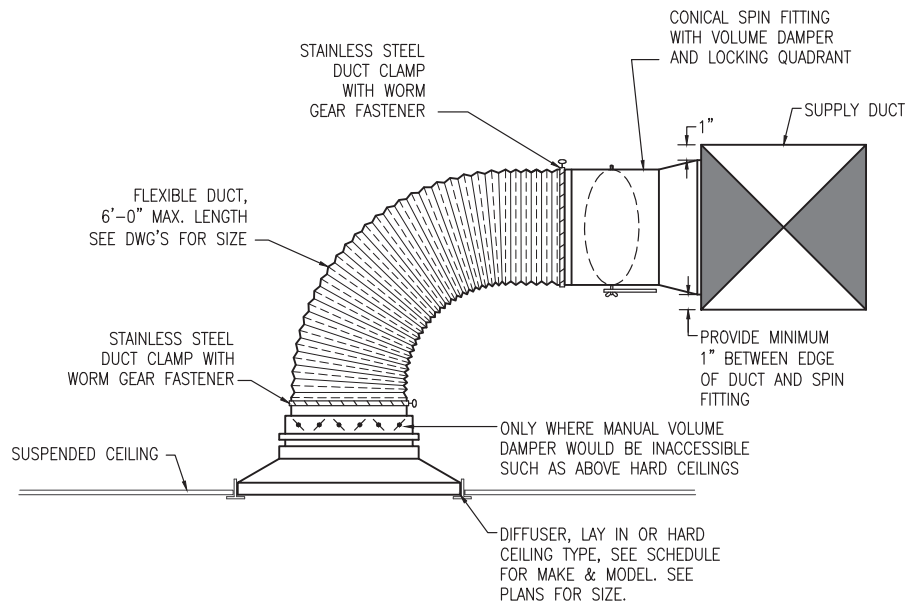
NOTES

1. FAN SHALL BE INSTALLED OUTSIDE
2. FAN SHALL BE INSTALLED OUTSIDE
3. FAN SHALL BE INSTALLED OUTSIDE
4. FAN SHALL BE INSTALLED OUTSIDE

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1 ROUND GOOSENECK THROUGH ROOF
SCALE: NONE



2 CEILING DIFFUSER DETAIL
SCALE: NONE

GRILLE/REGISTER/DIFFUSER SCHEDULE									
NO.	PURPOSE	TYPE	SIZE	RATING	Q	ACCESSORIES	MANUFACTURER	QTY	
1	SUPPLY	CEILING	36\"	80\"	80		PP108003	1	
2	SUPPLY	CEILING	24\"	80\"	80		PP108000	1	
3	RETURN	CEILING	APPROPRIATE	80			PP108004	1	
GENERAL NOTES:									
1. ALL GRILLE/REGISTER/DIFFUSER SHALL BE SUPPLIED BY THE MANUFACTURER LISTED IN THE SCHEDULE.									
2. ALL GRILLE/REGISTER/DIFFUSER SHALL BE SUPPLIED WITH THE FOLLOWING ACCESSORIES:									
A. 1\"/>									
B. 1\"/>									
C. 1\"/>									

MINI SPLIT SYSTEM UNIT SCHEDULE																					
TAG	ROOM SERVED	EVAPORATOR (INDOOR UNIT) AC-1											CONDENSER (OUTDOOR UNIT) CU-1				EER	SEER	WEIGHT LB.	MANUFACTURER & MODEL	NOTES
		TMBH	SMBH	CFM	EDB °F	EWB °F	LDB °F	LWB °F	ELECTRICAL				ELECTRICAL								
									V	PH	MCD	OPD	V	PH	MCD	OPD					
AC-1/CU-1	MAIN OFFICE IT	24	18	635	80	67	55	55	208	1	0.6	15	208	1.0	16.5	20	10.2	17.3	31	IU-1 - DAIKIN/FAQ24PVJU / OCU-1 - DAIKIN/RZR24PVJU	1,2,3,4
GENERAL NOTES:																					
A. PERFORMANCE IS AT 6100 FT.																					
B. EQUIPMENT WITH 208V NAMEPLATES SHALL HAVE MOTORS SUITABLE FOR OPERATION AT 180 VOLTS OR PROVIDED WITH 200V TO 208V TRANSFORMERS																					
NOTES:																					
1. REFRIGERANT IS R-410A.																					
2. PROVIDE WIND BAFFLES FOR LOW AMBIENT COOLING OPERATION TO -10°F.																					
3. PROVIDE WITH CONDENSATE PUMP.																					
4. PROVIDE WITH CONDENSATE OVERFLOW SHUTOFF SWITCH.																					



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**ASPEN-SOPRIS
RANGER DISTRICT
OFFICE**

ASPEN / SOPRIS RANGER DISTRICT

DRAWING TITLE
**MECHANICAL
DETAILS &
SCHEDULES**

ARCHIVE NO. 100% CONSTRUCTION DOCUMENTS	
DESIGNER M. SWANSON	SUB SHEET NO. M501
CHECKED M. JELINSKE	
DATE 07/09/2020	SHEET 95 OF 119

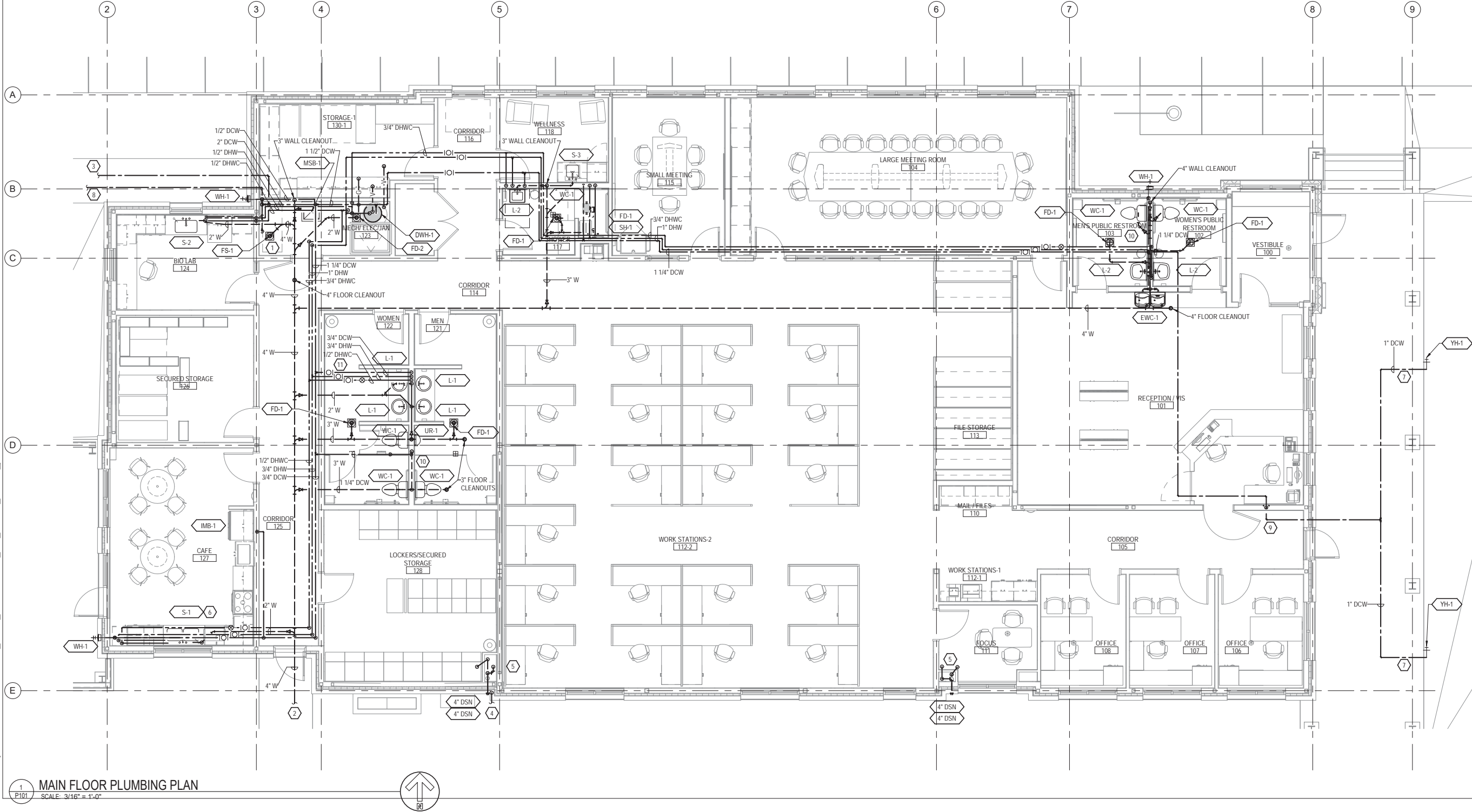
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SHEET NOTES

1. PROVIDE 3/4" WATER SERVICE TO THE WAREHOUSE DURING CONSTRUCTION. PROVIDE TEMPORARY METER AND BACKFLOW PREVENTER IN ACCORDANCE WITH THE TOWN'S REQUIREMENTS. REMOVE BACKFLOW AND METER AFTER CONSTRUCTION OF NEW WATER LINE FROM OFFICE BUILDING. SEE C300 AND A011 FOR MORE INFORMATION.
2. REFER TO WATER HEATER DETAIL ON SHEET P-401 FOR PIPING REQUIREMENTS OF THE WATER HEATER. ALL COMPONENTS SHALL BE LOCATED IN THE JANITOR CLOSET.
3. REFER TO THE WATER ENTRY DETAIL ON SHEET P-401 FOR BACKFLOW AND METER REQUIREMENT.

KEYNOTES

- 1 LOCATION OF WATER ENTRY, WATER METER AND BFP.
- 2 4" SANITARY SEWER. RE: CIVIL FOR CONTINUATION.
- 3 2" WATER SERVICE. RE: CIVIL FOR CONTINUATION.
- 4 2" NATURAL GAS. RE: CIVIL FOR CONTINUATION. ROUTE GAS RISER TO THE ROOF IN THE EXTERIOR CORNER OF THE BUILDING.
- 5 4" UP TO ROOF DRAIN
- 6 PROVIDE SUPPLY AND WASTE CONNECTION FOR DISHWASHER FROM SINK.
- 7 1" UNDERGROUND WATER LINE FOR YARD HYDRANT. RUN EXTERIOR WATER LINES FOR HYDRANTS BELOW FROST DEPTH.
- 8 3/4" WATER LINE TO THE WAREHOUSE. SEE CIVIL AND ARCHITECTUAL FOR EXACT LOCATIONS.
- 9 PROVIDE MEANS TO WINTERIZE THE PIPING TO THE YARD HYDRANTS TO DRAIN AND BLOW OUT THE PIPING. REFER TO DETAIL #4-P401.
- 10 PROVIDE WATER HAMMER ARRESTOR, COORDINATE LOCATION WITH ACCESS PANEL SHOWN ON ARCHITECTURAL PLANS.
- 11 LOCATE ISOLATION AND BALANCE VALVES IN COORIDOR OUTSIDE OF WOMEN'S 122 WHERE THEY WILL BE ACCESSABLE. VALVES ARE SHOWN IN WOMEN'S ROOM FOR CLARITY ONLY.



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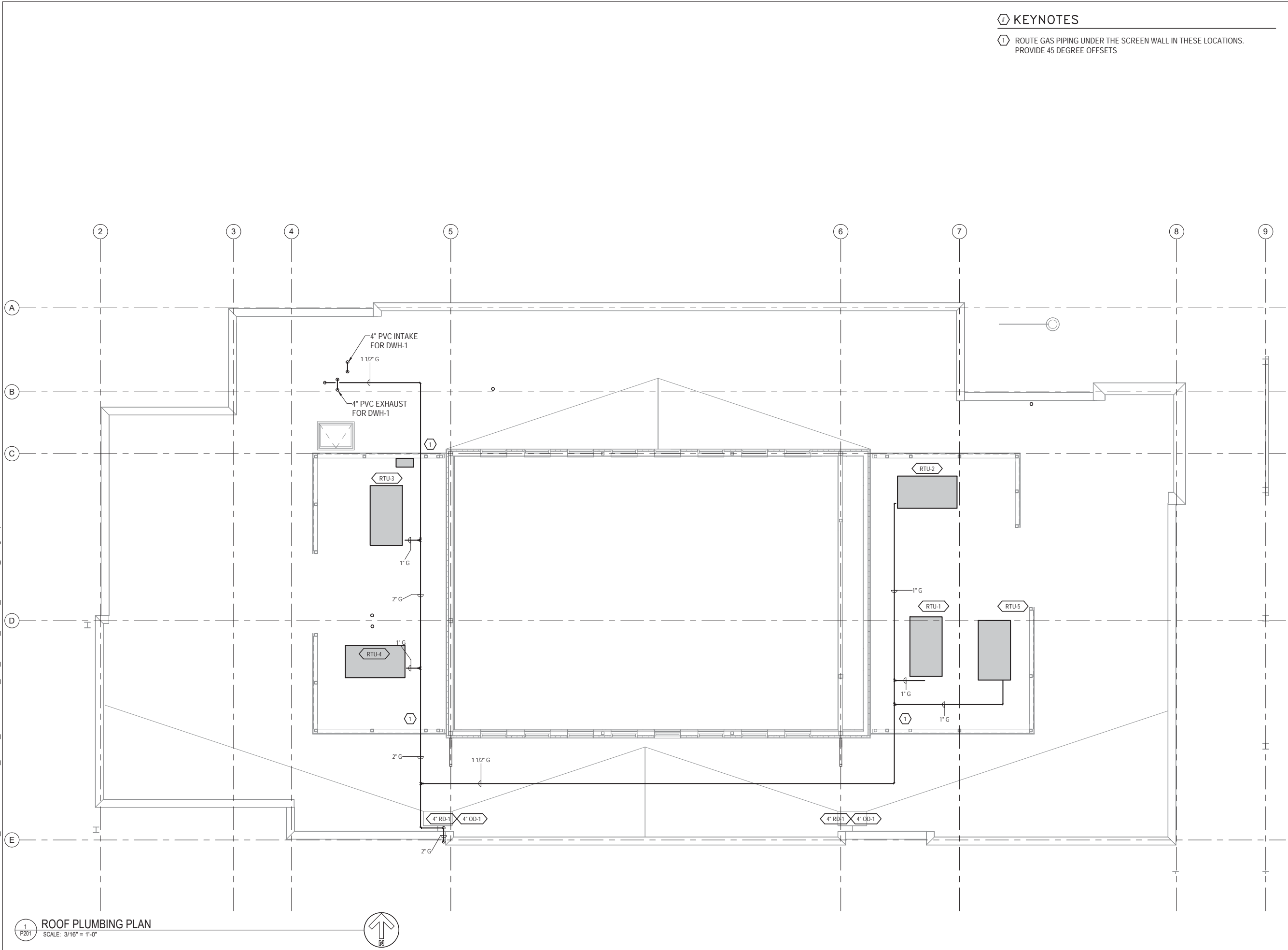
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DRAWING TITLE
**PLUMBING FIRST
FLOOR PLAN**

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KEYNOTES

- 1 ROUTE GAS PIPING UNDER THE SCREEN WALL IN THESE LOCATIONS. PROVIDE 45 DEGREE OFFSETS



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**ROOF PLUMBING
PLAN**

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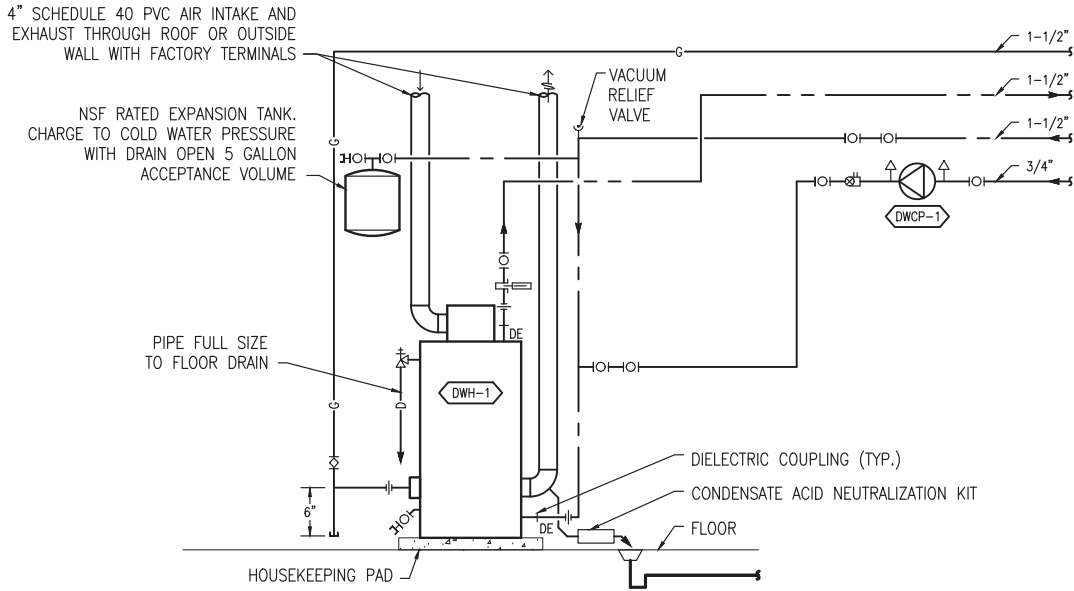
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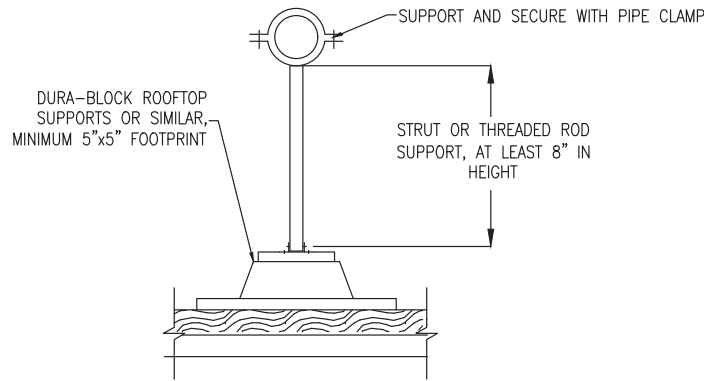
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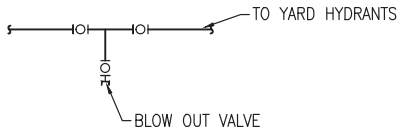
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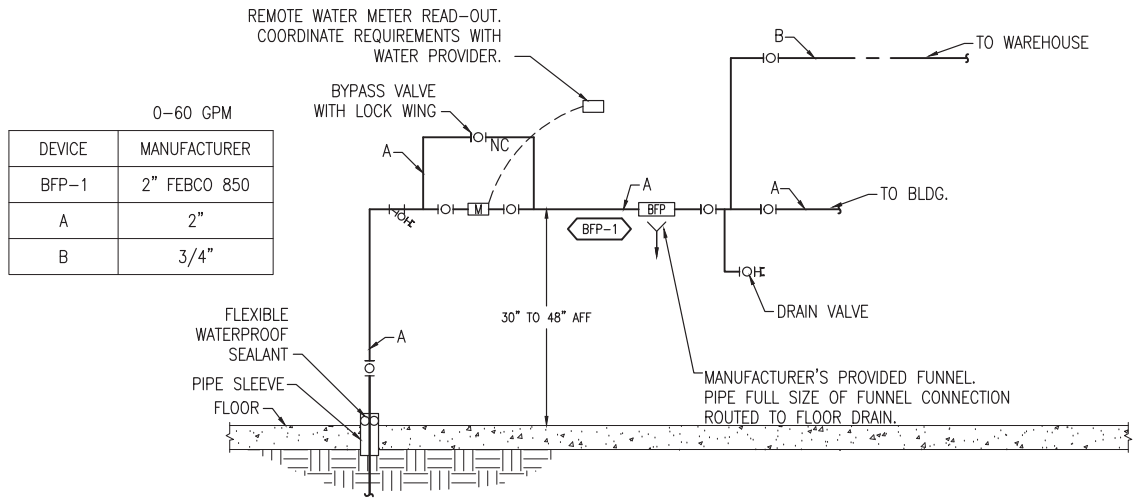
2 GAS-FIRED DOMESTIC WATER HEATER PIPING DIAGRAM
SCALE: NONE



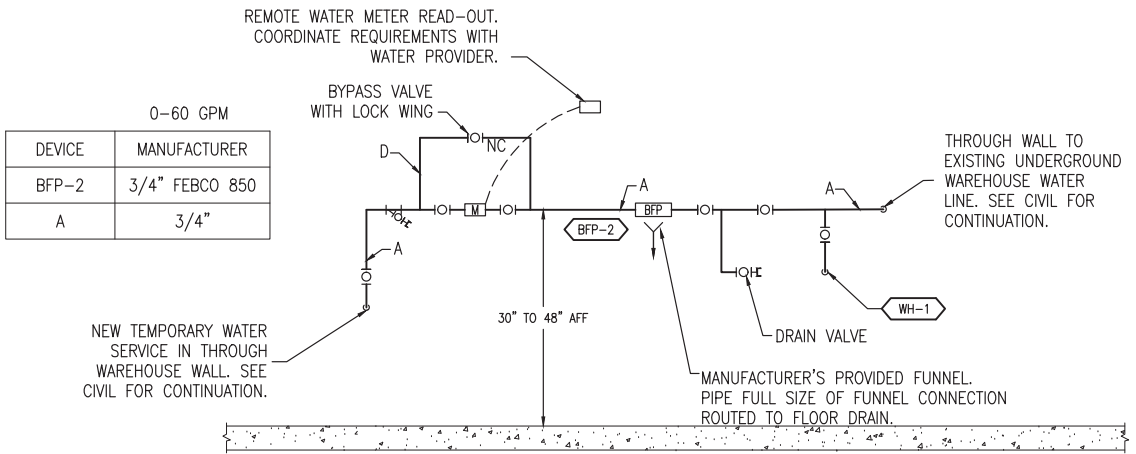
5 GAS LINE SUPPORT DETAIL
SCALE: NONE



4 WINTERIZING ISOLATION
SCALE: NONE



1 DOMESTIC WATER ENTRY VALVING DIAGRAM
SCALE: NONE
NOTE: SET METER AND VALVING 12" OUT FROM WALL AND MAINTAIN 24" CLEARANCE IN FRONT. PROVIDE 7' MINIMUM HEAD ROOM CLEARANCE.



3 TEMP DOMESTIC WATER ENTRY VALVING DIAGRAM TO WAREHOUSE
SCALE: NONE
NOTES: 1. SET METER AND VALVING 12" OUT FROM WALL AND MAINTAIN 24" CLEARANCE IN FRONT. PROVIDE 7' MINIMUM HEAD ROOM CLEARANCE.
2. WAREHOUSE METER SET IS TEMPORARY AND TO BE IN SERVICE WHILE MAIN BUILDING IS UNDER CONSTRUCTION. METER SET SHALL BE REMOVED IN THE WAREHOUSE ONCE METER IS INSTALLED IN THE MAIN BUILDING.

DOMESTIC HOT WATER GENERATOR SCHEDULE

TAG	SERVICE	MBH INPUT	MBH OUTPUT	FUEL TYPE	EFF %*	MDP PSIG**	SVS PSIG***	CAPACITY GALS	RECOVERY GPH	EWT °F	LWT °F	ELECTRICAL					WEIGHT LB.	MANUFACTURER & MODEL	NOTES
												V	PH	FLA	MCA	OPD			
DWH-1	DOMESTIC HOT WATER	120	114	NG	95%	-	-	60	138	40	140	120	1	5	-	-	490	STATE SUF60 120NEA	1,2,3,4,5,6,7,8,9,10,11

GENERAL NOTES:

- PERFORMANCE IS AT SITE CONDITIONS
- HEATED FLUID IS WATER
- PROVIDE DWCP-1 RECIRCULATING PUMP
- PROVIDE DWET-1 EXPANSION TANK

* THERMAL, COMBUSTION OR AFUE EFFICIENCY PER ASHRAE 90.1

NOTES:

- STAINLESS STEEL HEAT EXCHANGER
- UL LISTED; ASME SECTION IV STAMPED
- MODULATING NATURAL GAS BURNER
- SPARK IGNITION WITH 100% MAIN VALVE SHUTOFF AND FLAME SUPERVISION
- DIRECT VENTING WITH AL29-4C OR POLYPROPYLENE

** MINIMUM DESIGN PRESSURE

***SAFETY VALVE SETTING



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**PLUMBING
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NO.

P401

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PLUMBING FIXTURE SCHEDULE						
SYM.	DESCRIPTION	CONNECTION SIZES*				ELECT. REQ'D
		W	V	C	H	
DWCP-1	DOMESTIC HOT WATER CIRCULATION PUMP. 7 GPM @ 15 FT. HD. TACO MODEL 008-IQSF6					115V 1/25 HP 0.84 AMPS
DSN-1	DOWNSPOUT NOZZLE - JOSAM 25010-51-B5. SATIN FINISH BRONZE TOP. WALL FLANGE. STAINLESS STEEL BIRD SCREEN	PLAN	-	-	-	
EWCP-1	ELECTRIC WATER COOLER. HI-LO ADA. ELKAY MODEL LZSTL8WSP. STAINLESS STEEL TOP. NON-RECESSED 8 GPH CHILLER ARI CAPACITY. ADJUSTABLE VALVE. BOTTLE FILLER. NSF 61. R-134A. 115V. 1PH., 4.7 A. MOUNT BUBBLER AT 41/32-5/8".	1-1/4"	1-1/4"	1/2"	-	115V
FD-1	FLOOR DRAIN (FINISHED AREAS) - JOSAM 30000-S. SQUARE YTOP. COATED CAST IRON FLOOR DRAIN. TWO PIECE BODY. DOUBLE DRAINAGE FLANGE. BOTTOM NO-HUB OUTLET CONNECTION. WATERLESS TRAP PRIMER TAP IF REQUIRED. ADJUSTABLE SATIN BRONZE STRAINER. SEDIMENT BUCKET. VANDAL PROOF SCREWS.	PLAN	-	-	-	
FD-2	FLOOR DRAIN (UNFINISHED AREAS) - JOSAM 35130. COATED CAST TWO PIECE IRON BODY. DOUBLE DRAINAGE FLANGE. FLASHING FLANGE. SEEPAGE SLOTS. BOTTOM NO-HUB OUTLET CONNECTION. WATERLESS TRAP PRIMER TAP IF REQUIRED. 9" MEDIUM-DUTY SECURED GRATE. REMOVABLE SEDIMENT BUCKET.	PLAN	-	-	-	
FS-1	FLOOR SINK - JOSAM 49320A. 12" X 6" DEEP CAST IRON BODY WITH ACID RESISTANT INTERIOR. DOUBLE DRAINAGE FLANGE. DOME STRAINER. WITH NIKALOY HALF GRATE AS REQUIRED FOR APPLICATION. NO- HUB CONNECTION.	4"	-	-	-	
GD-1	GARBAGE DISPOSER. IN-SINK-ERATOR BADGER 5XP. CONTINUOUS FEED. STAINLESS STEEL GRINDING ELEMENTS AND SWIVEL LUGS. 3/4 HP. 8.1 AMPS. 115V. 1 PH.	1-1/2"	-	-	-	115V
IMB-1	ICEMAKER WALL BOX. GUY GRAY. 20 GAUGE POWDER COATED WHITE BOX. 1/2". 1/4 TURN VALVE WITH WATER HAMMER ARRESTER	-	-	1/2"	-	
L-1	LAVATORY. UNDER MOUNT. ADA COMPLIANT. KOHLER MODEL K-2608-MJ. WHITE VITREOUS CHINA. 19-7/8" x 16-11/16" OVAL WITH SINGLE FAUCET CENTER. 1-1/4" TAILPIECE. OVERFLOW. CHROME PLATED CAST BRASS ADJUSTABLE OFFSET 1-1/4" P-TRAP WITH CLEAN-OUT. 3/8" FLEXIBLE SUPPLIES. 1/4-TURN STOPS WITH LOOSE KEY. GRID STRAINER. FAUCET. SLOAN MODEL EAF-250. SENSOR OPERATED. BATTERY POWERED. 0.5 GPM VANDAL-RESISTANT AERATOR. NSF-61 LEAD FREE. ALL COMPONENTS MUST COMPLY WITH ADA. PROVIDE WITH WATTS LFUSG-B THERMOSTATIC MIXING VALVE.	1-1/4"	1-1/4"	1/2"	1/2"	BATTERY
L-2	LAVATORY. WALL MOUNT. ADA COMPLIANT. AMERICAN STANDARD MURRO 0955.001EC. WHITE VITREOUS CHINA. 15-1/2" x 13-1/2" OVAL WITH SINGLE FAUCET CENTER. VITREOUS CHINA SHROUD. 1-1/4" TAILPIECE. OVERFLOW. CHROME PLATED CAST BRASS ADJUSTABLE OFFSET 1-1/4" P-TRAP WITH CLEAN-OUT. 3/8" FLEXIBLE SUPPLIES. 1/4-TURN STOPS WITH LOOSE KEY. GRID STRAINER. FAUCET. SLOAN MODEL EAF-250. SENSOR OPERATED. BATTERY POWERED. 0.5 GPM VANDAL-RESISTANT AERATOR. NSF-61 LEAD FREE. ALL COMPONENTS MUST COMPLY WITH ADA. PROVIDE WITH WATTS LFUSG-B THERMOSTATIC MIXING VALVE.	1-1/4"	1-1/4"	1/2"	1/2"	BATTERY
MSB-1	MOP BASIN. FIAT. TERRAZZO TSB 100. 24" X 24" X 12" COMBINATION DOME STRAINER. STAINLESS STEEL RIM GUARDS ALL SIDES. FAUCET. ZURN MODEL Z841M1 CHROME PLATED WITH LEVER HANDLES. INTEGRAL STOPS. VACUUM BREAKER. WALL BRACE. PAIL HOOK AND 3/4" HOSE THREAD ON SPOUT. MOUNT AT 36" AFF. PROVIDE CHECK VALVES IN HOT AND COLD WATER LINES. PROVIDE STAINLESS STEEL WALL GUARDS ON ALL EXPOSED WALLS.	3"	1-1/2"	1/2"	1/2"	
OD-1	OVERFLOW ROOF DRAIN. JOSAM SERIES 21500 WITH COATED CAST IRON BODY. BOTTOM OUTLET. ADJUSTABLE TOP. LOCKING POLYPROPYLENE DOME STRAINER WITH STAINLESS STEEL MESH SCREEN COVER. DECK CLAMP. CLAMP RING AND GRAVEL GUARD. PROVIDE 2" HIGH PLASTIC INTERNAL STANDPIPE WHEN MOUNTED AT SAME LEVEL AS ROOF DRAIN.	4"	-	-	-	
RD-1	ROOF DRAIN. JOSAM SERIES 21500 WITH COATED CAST IRON BODY. BOTTOM OUTLET. ADJUSTABLE TOP. LOCKING POLYPROPYLENE DOME STRAINER WITH STAINLESS STEEL MESH SCREEN COVER. DECK CLAMP. CLAMP RING AND GRAVEL GUARD.	4"	-	-	-	
S-1	KITCHEN SINK. ADA COMPLIANT. JUST MODEL UD-ADA-1632-A-A8GA. TWO COMPARTMENT. 18 GAUGE TYPE 304 STAINLESS STEEL. 32" X 16" O.D. 5" DEEP BOWL. UNDER MOUNT. DRAIN LOCATION CENTER REAR. STAINLESS STEEL BASKET STRAINER. 1 1/2" 17 GAUGE CHROME PLATED P-TRAP WITH CLEAN-OUT. CHROME PLATED FLEXIBLE ANGLE SUPPLIES WITH KEYED STOPS. FAUCET. MOEN MODEL 7864. CENTER MOUNT. DECK MOUNTED FITTING. CAST SWING SPOUT. AERATOR. SINGLE HANDLE. CERAMIC DISC CARTRIDGES. WITH PULL OUT SPRAY. PROVIDE WITH GD-1. ALL COMPONENTS MUST COMPLY WITH ADA.	1-1/2"	1-1/4"	1/2"	-	
S-2	COUNTER SINK. ADA COMPLIANT. JUST MODEL US-ADA-1830-A-18GA. SINGLE COMPARTMENT. 18 GAUGE 30" X 28" O.D. UNDER MOUNT. DRAIN LOCATION CENTER REAR. 1 1/2" 17 GAUGE CHROME PLATED P-TRAP WITH CLEAN-OUT. CHROME PLATED FLEXIBLE ANGLE SUPPLIES WITH KEYED STOPS. FAUCET. MOEN MODEL 7864. CENTER MOUNT. DECK MOUNTED FITTING. CAST SWING SPOUT. AERATOR. SINGLE HANDLE. CERAMIC DISC CARTRIDGES. WITH PULL OUT SPRAY. INSULATE SUPPLY AND WASTE WITH TRUEBRO INC. INSULATION KIT. ALL COMPONENTS MUST COMPLY WITH ADA.	1-1/2"	1-1/4"	1/2"	-	
S-3	COUNTER SINK. ADA COMPLIANT. JUST MODEL US-1616-A-18GA. SINGLE COMPARTMENT. 18 GAUGE 16" X 16" O.D. UNDER MOUNT. DRAIN LOCATION CENTER REAR. 1 1/2" 17 GAUGE CHROME PLATED P-TRAP WITH CLEAN-OUT. CHROME PLATED FLEXIBLE ANGLE SUPPLIES WITH KEYED STOPS. FAUCET. MOEN MODEL 7864. CENTER MOUNT. DECK MOUNTED FITTING. CAST SWING SPOUT. AERATOR. SINGLE HANDLE. CERAMIC DISC CARTRIDGES. WITH PULL OUT SPRAY. INSULATE SUPPLY AND WASTE WITH TRUEBRO INC. INSULATION KIT. ALL COMPONENTS MUST COMPLY WITH ADA.	1-1/2"	1-1/4"	1/2"	-	
SH-1	SHOWER HEAD AND VALVE ONLY (ADA COMPLIANT) MOEN T8342EP15 WATER SENSE CERITIED CHROME FINISH FIXED SHOWER HEAD. WITH PRESSURE BALANCED MIXING VALVE. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT. ASSE 1016.	-	-	1/2"	1/2"	
UR-1	URINAL - AMERICAN STANDARD WASHBROOK FLOWSE. ADA COMPLIANT. WASHOUT ACTION. MANUAL FLUSH VALVE TYPE. WHITE VITREOUS CHINA. WALL HUNG WITH 3/4" TOP SPUD. AMERICAN STANDARD 6045.013.002 MANUAL FLUSH VALVE. 0.125 GPF. PROVIDE WITH FLOOR MOUNTED CARRIER. MOUNTING HEIGHT BY ARCHITECT	2"	1-1/4"	3/4"	-	
WC-1	WATER CLOSET. FLOOR MOUNTED. TANK TYPE. FLOOR OUTLET. DUAL FLUSH 1.28 & 0.8 GPF FLUSH VALVE. ADA COMPLIANT. TOTO AQUIA IV CLOSE COUPLED TOILET MODEL MS446124CEMG.104 WHITE VITREOUS CHINA. ELONGATED RIM BOWL WITH SEAT AND COVER.	4"	2"	1-1/4"	-	BATTERY
WH-1	WALL HYDRANT. FREEZE-PROOF. WOODFORD MODEL B65 VACUUM BREAKER. CHROME PLATED BRASS BODY. WALL BOX WITH COVER. WITH LOOSE TEE KEY.	-	-	3/4"	-	
YH-1	YARD HYDRANT. WOODFORD MODEL S3 SANITARY YARD HYDRANT WITH RESERVIOR BELOW FROST LINE.			3/4"		
* CONNECTION SIZES EQUAL BRANCH PIPE SIZES UNLESS NOTED ON PLAN OR REQUIRED TO BE OVERSIZED BY CODE. FLUSH VALVES: MINIMUM BRANCH SIZE TO WATER CLOSET, 1-1/2"; MINIMUM BRANCH SIZE TO URINAL, 1-1/4"						

GAS LOAD SUMMARY

APPLIANCE TYPE	RATED NATURAL GAS INPUT IN MBH
RTU-1	60
RTU-2	60
RTU-3	100
RTU-4	60
RTU-5	60
DWH-1	120
TOTAL CONNECTED LOAD (MBH) =	460



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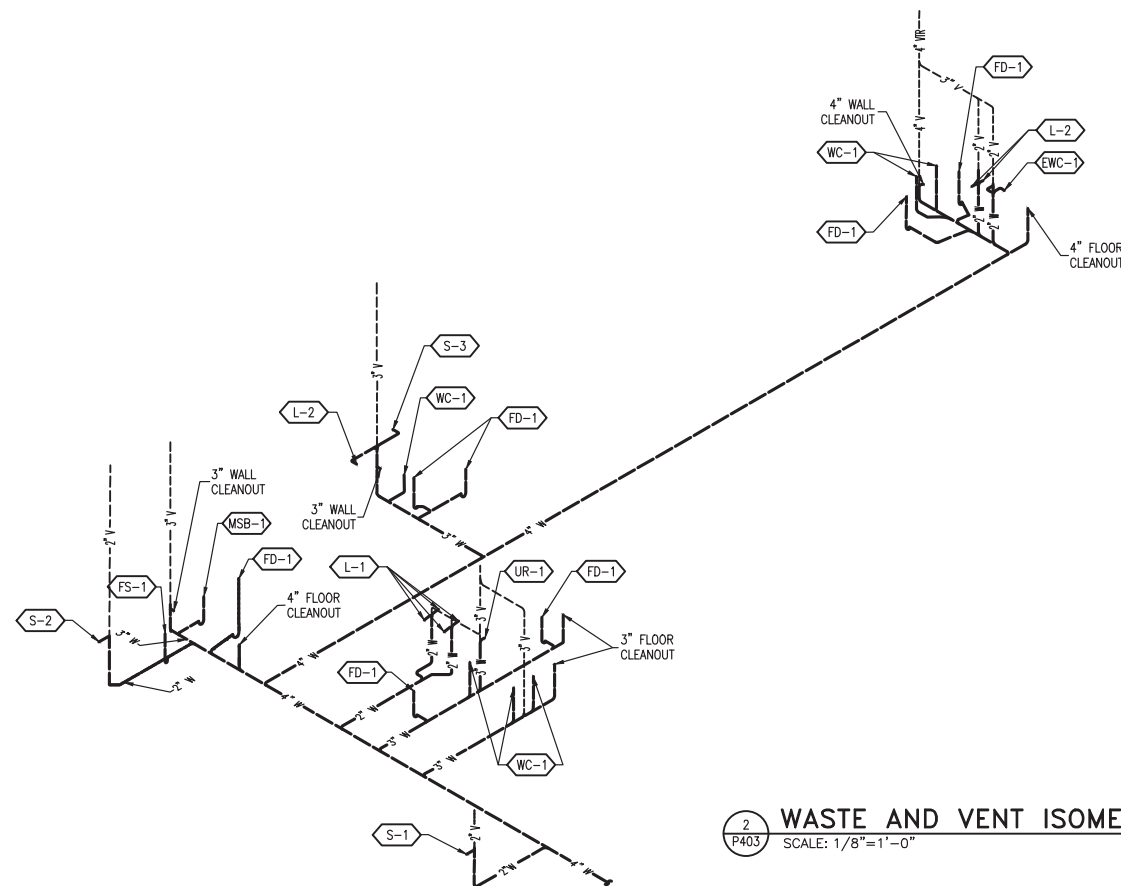
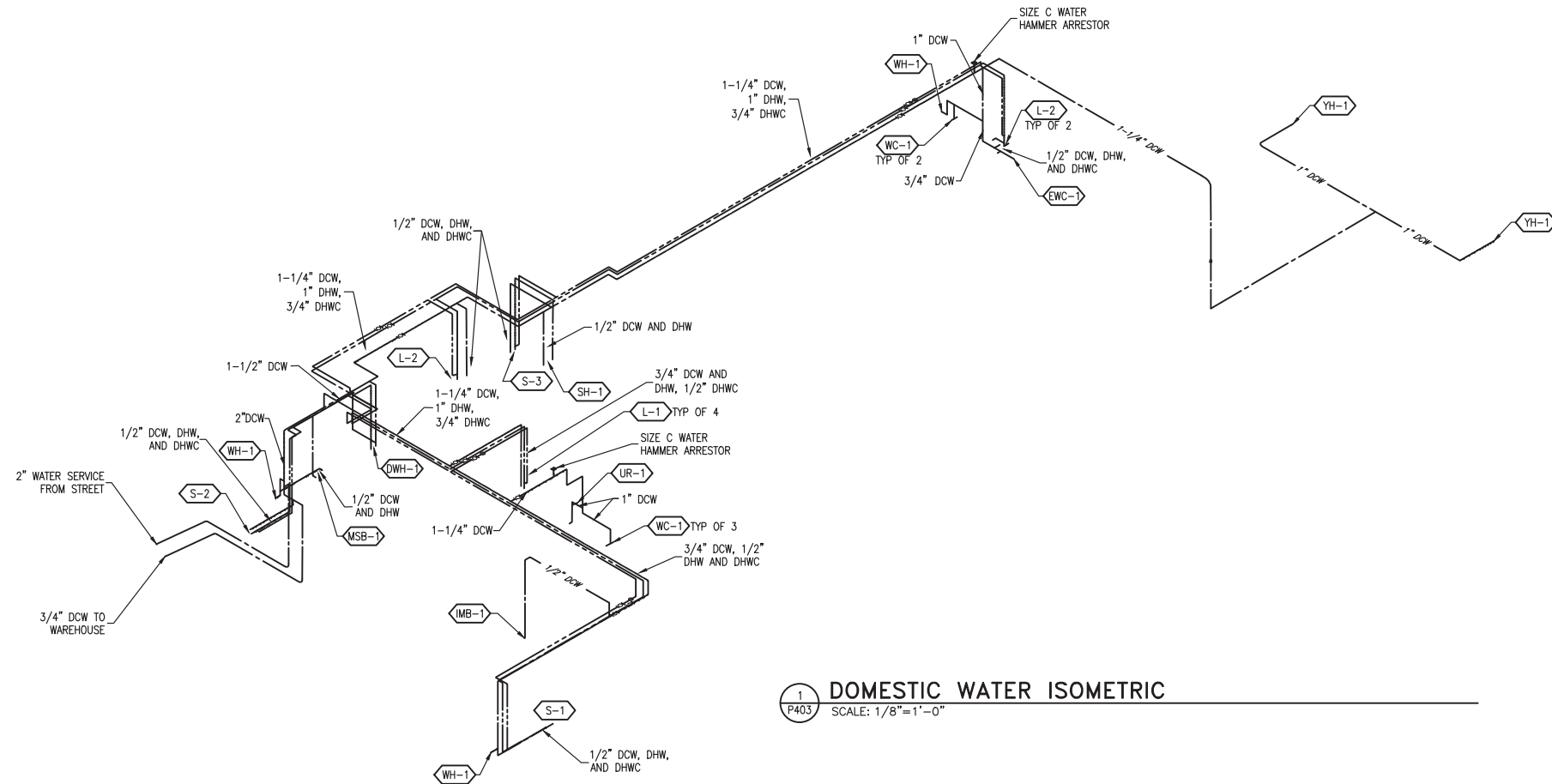
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ELECTRICAL LEGEND (NOTE: NOT ALL SYMBOLS SHOWN ARE USED ON THESE DRAWINGS)												APPLICABLE CODES		
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION			AHJ: US FOREST SERVICE		
- ONE LINE SYMBOLS -			- GENERAL -		- SPECIAL SYSTEMS DEVICES -		- POWER -		- LIGHTING - (REFER TO LUMINAIRE SCHEDULE)		- ABBREVIATIONS -		FIRE AUTHORITY: US FOREST SERVICE	
	CIRCUIT BREAKER		BRANCH CIRCUIT HOME RUN TO PANELBOARD, DESIGNATION INDICATES PANEL AND CIRCUIT NUMBERS		DATA OUTLET		DUPLEX RECEPTACLE D = DEDICATED CIRCUIT IG = ISOLATED GROUND DEVICE		LUMINAIRES X = FIXTURE DESIGNATION # = BRANCH CIRCUIT NUMBER * = SWITCH LEG IDENTIFIER	(E) (N) (PART)	EXISTING NEW PARTIAL CIRCUIT	REMODEL <input type="checkbox"/> NEW <input checked="" type="checkbox"/>		
	DRAW-OUT CIRCUIT BREAKER (MOLDED INSULATED CASE)		CONTROL WIRING		COMBINATION TELEPHONE/DATA OUTLET		GFI = GROUND FAULT CIRCUIT INTERRUPTER		SHADING INDICATES PORTION OF LUMINAIRE ON LIFE SAFETY	AMP	AMPS INTERRUPTING CAPACITY	YEAR	CODE	
	DRAW-OUT POWER CIRCUIT BREAKER		LIGHTING, ONE-LINE, AND POWER CIRCUITING		TELEPHONE OUTLET		FLOOR MOUNTED DUPLEX RECEPTACLE		SHADING INDICATES PORTION OF LUMINAIRE ON LIFE SAFETY	AC	ABOVE COUNTER TOP	2018	INTERNATIONAL BUILDING CODE	
	CONTROL FUSE		LIGHTING, ONE-LINE, AND POWER CIRCUITING (UNDERGROUND)		TELEVISION JACK		FLOOR MOUNTED FOURPLEX RECEPTACLE		WALL MOUNTED LUMINAIRE	AF	AMP FRAME, AMP FUSE	2018	INTERNATIONAL MECHANICAL CODE	
	FUSE WITH SWITCH		FLEXIBLE CONDUIT		CEILING MOUNTED DATA OUTLET		FLOOR MOUNTED SPECIAL PURPOSE RECEPTACLE		STRIP LIGHT	AFB	ABOVE FINISHED FLOOR	2018	INTERNATIONAL PLUMBING CODE	
	SWITCH		CONDUIT BREAK SYMBOL		CEILING MOUNTED TELEPHONE/DATA OUTLET		CEILING MOUNTED DUPLEX RECEPTACLE		STRIP LIGHT WITH LIFE SAFETY	AFG	ABOVE FINISHED GRADE	2018	INTERNATIONAL ENERGY CONSERVATION CODE	
	PANELBOARD		CONDUIT CAP		CEILING MOUNTED TELEPHONE OUTLET		CEILING MOUNTED FOURPLEX RECEPTACLE		POLE MOUNTED LUMINAIRE (QUANTITY OF LUMINAIRES PER POLE AS INDICATED ON PLANS)	AHJ	AUTHORITY HAVING JURISDICTION	2018	INTERNATIONAL FIRE CODE	
	AUTOMATIC TRANSFER SWITCH		CONDUIT CHANGE IN ELEVATION		FLOOR MOUNTED DATA OUTLET		CEILING MOUNTED SPECIAL PURPOSE RECEPTACLE		TRACK LIGHTING	AT	AMP SWITCH	2017	NATIONAL ELECTRICAL CODE	
	FEEDER DESIGNATION, SEE FEEDER SCHEDULE		CONDUIT STUB DOWN (OUT OF DRAWING LIMITS)		FLOOR MOUNTED TELEPHONE/DATA OUTLET		FOURPLEX RECEPTACLE		PHOTOCELL	ATS	AUTOMATIC TRANSFER SWITCH	IS THE BUILDING FULLY SPRINKLERED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
	AUTOMATIC TRANSFER SWITCH WITH BY-PASS		CONDUIT STUB UP (OUT OF DRAWING LIMITS)		FLOOR MOUNTED TELEPHONE OUTLET		SINGLE RECEPTACLE		EXIT LIGHT (WITH FACES AND DIRECTION ARROWS INDICATED)	AV	AUDIOVISUAL	IS THE BUILDING FULLY DETECTED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
	ENGINE GENERATOR		JUNCTION BOX		WALL MOUNTED JUNCTION BOX		SPECIAL PURPOSE RECEPTACLE		DOWNLIGHT LUMINAIRE	BJ	BONDING JUMPER	- GRAPHIC SYMBOLS -		
	TRANSFORMER		FLOOR MOUNTED JUNCTION BOX		MICROPHONE OUTLET		SWITCHED RECEPTACLE		WALL WASHER LUMINAIRE	C	CONDUIT		KEY NOTE	
	ENCLOSED BUSWAY		PUSH BUTTON A = ABORT DA = DURESS ALARM EPO = EMERGENCY POWER OFF IC = INTERCOM ST = SHUNT TRIP		SPEAKER V = WITH INTEGRAL VOLUME CONTROL		DUPLEX EMERGENCY/CRITICAL		ADJUSTABLE LUMINAIRE	CB	CIRCUIT BREAKER		REVISION NUMBER	
	GROUND BUS		SWITCH SYMBOL (#) SINGLE POLE (IF BLANK) 2 = DOUBLE POLE 3 = THREE-WAY 4 = FOUR-WAY AS = ADJUSTABLE SPEED D = DIMMER D,W = DIMMER, WIRELESS K = KEY OPERATED LV = LOW VOLTAGE M = MANUAL MOTOR SWITCH OS = OCCUPANCY SENSOR P = WITH PILOT LIGHT T = TIMER TO = THERMAL OVERLOAD VS = VACANCY SENSOR WP = WEATHERPROOF x = SMALL LETTER - LUMINAIRES CONTROLLED XP = EXPLOSION PROOF		WALL MOUNTED SPEAKER		FOURPLEX EMERGENCY/CRITICAL		PENDANT LUMINAIRE	CCT	CIRCUIT		DETAIL NOTE	
	WEATHERHEAD		DUAL SWITCH		CLOCK RECEPTACLE OUTLET		DUPLEX-2PORT USB		TRACK LIGHTING	CCTV	CLOSED CIRCUIT T.V.		X = DENOTES ALL LUMINAIRES IN THE RESPECTIVE AREA ARE THE TYPE INDICATED, REFER TO LUMINAIRE SCHEDULE	
	MOTOR		INTERCOM SWITCH		SECURITY CAMERA		4PORT USB		PHOTOCELL	CLG	CEILING		LIGHTING CONTROL SEQUENCE INDICATION, SEE LIGHTING CONTROL SEQUENCE OF OPERATION SCHEDULE FOR INFORMATION X = DENOTES ILLUMINATION SET POINT	
	DELTA CONNECTION	- FIRE ALARM DEVICES -			THERMOSTAT		DISCONNECT SWITCH		WALL MOUNTED EXIT LIGHT (WITH FACES AND DIRECTION ARROWS INDICATED)	CU	COPPER		MECHANICAL EQUIPMENT TAG	
	WYE CONNECTION		BELL		FIRE FIGHTER'S TELEPHONE JACK		FUSED DISCONNECT SWITCH		EXIT LIGHT (WITH FACES AND DIRECTION ARROWS INDICATED)	DISC	DISCONNECT		SHADING INDICATES EQUIPMENT	
	GROUNDING WYE CONNECTION		DUCT SMOKE DETECTOR		COMBINATION FIRE HORN/STROBE LIGHT		ENCLOSED CIRCUIT BREAKER		WALL MOUNTED EXIT LIGHT (WITH FACES AND DIRECTION ARROWS INDICATED)	DIST	DISTRIBUTION		HATCHING INDICATES ITEM(S) TO BE REMOVED	
	GROUNDING WYE CONNECTION WITH RESISTOR GROUND		FIRE ALARM STROBE LIGHT		COMBINATION FIRE SPEAKER/STROBE LIGHT		FIRE RATED POKE-THROUGH		PHOTOCELL	E/G	ENGINE/GENERATOR		ROOM NUMBER	
	GROUNDING WYE CONNECTION WITH REACTOR GROUND		FIRE ALARM STROBE, CEILING MOUNT		FIRE ALARM STROBE/SPEAKER, CEILING MOUNT		FIRE RATED POKE-THROUGH		PHOTOCELL	ELEV	ELEVATOR ELEVATION		NORTH ARROW	
	METERING DEVICE		FIRE ALARM STROBE/SPEAKER, CEILING MOUNT		FIRE ALARM STROBE/SPEAKER, CEILING MOUNT		FIRE RATED POKE-THROUGH		PHOTOCELL	EM	EMERGENCY EQUIPMENT		DETAIL BUBBLE 1 DETAIL NUMBER 2 SHEET NUMBER - WHERE DETAIL IS SHOWN	
	CURRENT TRANSFORMER		FIRE ALARM STROBE/SPEAKER, CEILING MOUNT		FIRE ALARM STROBE/SPEAKER, CEILING MOUNT		FIRE RATED POKE-THROUGH		PHOTOCELL	EOP	EQUIPMENT		SECTION CUT SECTION NUMBER/LETTER 2 SHEET NUMBER - WHERE SECTION IS SHOWN	
	POTENTIAL TRANSFORMER		FIRE ALARM STROBE/SPEAKER, CEILING MOUNT		FIRE ALARM STROBE/SPEAKER, CEILING MOUNT		FIRE RATED POKE-THROUGH		PHOTOCELL	F	FUSE	GENERAL NOTES		
	LOAD-BREAK CONNECTOR		FIRE ALARM STROBE/SPEAKER, CEILING MOUNT		FIRE ALARM STROBE/SPEAKER, CEILING MOUNT		FIRE RATED POKE-THROUGH		PHOTOCELL	FA	FIRE ALARM	SPECIFICATIONS ARE A PART OF THE CONSTRUCTION DOCUMENTS. SHOULD ANY CONFLICT ARISE BETWEEN THE DRAWINGS AND SPECIFICATIONS, BRING SUCH CONFLICT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION. UNLESS OTHERWISE DIRECTED BY ENGINEER, THE MOST STRINGENT REQUIREMENT WILL PREVAIL.		
	PROTECTIVE RELAY DEVICE		FIRE ALARM STROBE/SPEAKER, CEILING MOUNT		FIRE ALARM STROBE/SPEAKER, CEILING MOUNT		FIRE RATED POKE-THROUGH		PHOTOCELL	FAA	FIRE ALARM ANNUNCIATOR	DATA ON THE DRAWINGS IS AS EXACT AS COULD BE REASONABLY SECURED. ABSOLUTE ACCURACY IS NOT GUARANTEED. VERIFY EXACT LOCATIONS, MEASUREMENTS, LEVELS, SPACE REQUIREMENTS, POTENTIAL CONFLICTS WITH OTHER TRADES. ADAPT WORK TO ACTUAL CONDITIONS AT THE SITE. BEFORE SUBMITTING COSTS VISIT THE SITE TO BECOME THOROUGHLY FAMILIAR WITH THE ACTUAL CONDITIONS OF THIS PROJECT. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE; DO NOT SCALE. THESE DRAWINGS DO NOT SHOW MATERIALS FOR A COMPLETE INSTALLATION; PLAN THE INSTALLATION AND LAYOUT OF THE WORK AS DIAGRAMMED IN THESE DOCUMENTS. REFER TO FLOOR PLANS, SCHEMATICS AND DIAGRAMS OF OTHER TRADES FOR ELECTRICAL REQUIREMENTS, BRANCH CIRCUITS AND OTHER ELECTRICAL CONNECTIONS NOT INDICATED ON THESE DOCUMENTS.		
	KEY INTERLOCK		FIRE ALARM STROBE/SPEAKER, CEILING MOUNT		FIRE ALARM STROBE/SPEAKER, CEILING MOUNT		FIRE RATED POKE-THROUGH		PHOTOCELL	FACP	FIRE ALARM CONTROL PANEL	JUNCTION BOXES FOR LUMINAIRES AND OUTLETS ARE NOT INDICATED. PROVIDE THE PROPER NUMBER OF JUNCTION BOXES TO MEET LOCAL CODE AND NATIONAL ELECTRICAL CODE.		
	RESISTOR		FIRE ALARM STROBE/SPEAKER, CEILING MOUNT		FIRE ALARM STROBE/SPEAKER, CEILING MOUNT		FIRE RATED POKE-THROUGH		PHOTOCELL	FLR	FLOOR	WHERE DISCONNECTS ARE INDICATED ON DRAWINGS PROVIDE FINAL CONNECTION TO EQUIPMENT BEING SERVED BY DISCONNECT. DISCONNECTING MEANS FOR ALL MECHANICAL EQUIPMENT SHALL BE ACCESSIBLE AND HAVE THE CLEARANCE REQUIRED BY NEC.		
	CONTACT NORMALLY OPEN		FIRE ALARM STROBE/SPEAKER, CEILING MOUNT		FIRE ALARM STROBE/SPEAKER, CEILING MOUNT		FIRE RATED POKE-THROUGH		PHOTOCELL	FLUOR	FLUORESCENT	PROJECT NAME		
	CONTACT NORMALLY CLOSED		FIRE ALARM STROBE/SPEAKER, CEILING MOUNT		FIRE ALARM STROBE/SPEAKER, CEILING MOUNT		FIRE RATED POKE-THROUGH		PHOTOCELL	G	GROUND (EQUIPMENT)	ASPEN-SOPRIS RANGER DISTRICT OFFICE		
	CAPACITOR		FIRE ALARM STROBE/SPEAKER, CEILING MOUNT		FIRE ALARM STROBE/SPEAKER, CEILING MOUNT		FIRE RATED POKE-THROUGH		PHOTOCELL	GEN	GENERATOR	NO:		
	SINGLE BATTERY		FIRE ALARM STROBE/SPEAKER, CEILING MOUNT		FIRE ALARM STROBE/SPEAKER, CEILING MOUNT		FIRE RATED POKE-THROUGH		PHOTOCELL	GFI	GROUND FAULT CIRCUIT INTERRUPTER	ISSUED FOR:		
	MULTIPLE BATTERIES		FIRE ALARM STROBE/SPEAKER, CEILING MOUNT		FIRE ALARM STROBE/SPEAKER, CEILING MOUNT		FIRE RATED POKE-THROUGH		PHOTOCELL	GF	GROUND FAULT PROTECTION	DATE:		
	LIGHTNING ARRESTOR		FIRE ALARM STROBE/SPEAKER, CEILING MOUNT		FIRE ALARM STROBE/SPEAKER, CEILING MOUNT		FIRE RATED POKE-THROUGH		PHOTOCELL	GND	GROUND	DRAWING TITLE		
	THERMAL ELEMENT, OVERLOAD RELAY		FIRE ALARM STROBE/SPEAKER, CEILING MOUNT		FIRE ALARM STROBE/SPEAKER, CEILING MOUNT		FIRE RATED POKE-THROUGH		PHOTOCELL	HC	HANDICAPPED	ELECTRICAL LEGEND		
			FIRE ALARM STROBE/SPEAKER, CEILING MOUNT		FIRE ALARM STROBE/SPEAKER, CEILING MOUNT		FIRE RATED POKE-THROUGH		PHOTOCELL	HG	HOSPITAL GRADE	ARCHIVE NO. 100% CONSTRUCTION DOCUMENTS		
			FIRE ALARM STROBE/SPEAKER, CEILING MOUNT		FIRE ALARM STROBE/SPEAKER, CEILING MOUNT		FIRE RATED POKE-THROUGH		PHOTOCELL	HP	HORSEPOWER	DESIGNER		
			FIRE ALARM STROBE/SPEAKER, CEILING MOUNT		FIRE ALARM STROBE/SPEAKER, CEILING MOUNT		FIRE RATED POKE-THROUGH		PHOTOCELL	HV	HIGH VOLTAGE	K. CREMONA		
			FIRE ALARM STROBE/SPEAKER, CEILING MOUNT		FIRE ALARM STROBE/SPEAKER, CEILING MOUNT		FIRE RATED POKE-THROUGH		PHOTOCELL	INC	INCANDESCENT	CHECKED		
			FIRE ALARM STROBE/SPEAKER, CEILING MOUNT		FIRE ALARM STROBE/SPEAKER, CEILING MOUNT		FIRE RATED POKE-THROUGH		PHOTOCELL	IDF	INTERMEDIATE DISTRIBUTION FRAME	DATE		
			FIRE ALARM STROBE/SPEAKER, CEILING MOUNT		FIRE ALARM STROBE/SPEAKER, CEILING MOUNT		FIRE RATED POKE-THROUGH		PHOTOCELL	IG	ISOLATED GROUND	07/09/2020		
			FIRE ALARM STROBE/SPEAKER, CEILING MOUNT		FIRE ALARM STROBE/SPEAKER, CEILING MOUNT		FIRE RATED POKE-THROUGH		PHOTOCELL	JB	JUNCTION BOX	SUB SHEET NO.		
			FIRE ALARM STROBE/SPEAKER, CEILING MOUNT		FIRE ALARM STROBE/SPEAKER, CEILING MOUNT		FIRE RATED POKE-THROUGH		PHOTOCELL	LED	LIGHT EMITTING DIODE	E000		
			FIRE ALARM STROBE/SPEAKER, CEILING M											

VOLTAGE DROP REPORT									
Version: 1.0									
		From		To		Feeder Key		Conduit and Conductors	
		Length		Conduit		Notes		Notes	
		Feeder Key		Notes		Notes		Notes	
		Feeder Key		Notes		Notes		Notes	
1	UTILITY TRANS	MDP	600A	240/120V-3W-3Ø	300	STEEL	1L	240/120V-3W-3Ø	300
2	UTILITY TRANS	WAREHOUSE	600A	240/120V-3W-3Ø	300	STEEL	1L	240/120V-3W-3Ø	300
3									

NOTES

- CONTRACTOR IS RESPONSIBLE FOR ALL QUANTITIES, FEEDER ROUTING AND INSTALLATION. NO LATED FEEDER LENGTH WAS USED TO CALCULATE THE VOLTAGE DROP AND IS APPROXIMATE QUANTITY. IF THE INSTALLED FEEDER LENGTH IS LONGER THAN THE NO LATED FEEDER LENGTH TO CALCULATE, RE-EVALUATE VOLTAGE DROP AND RE-SIZE FEEDER.
- CALCULATIONS BASED ON THE NO LATED CONDUCTOR TYPE. IF THE INSTALLED CONDUCTOR TYPE IS DIFFERENT THAN THE NO LATED TYPE, RE-EVALUATE CONDUCTOR SIZE FOR VOLTAGE DROP AND RE-SIZE FEEDER.
- CALCULATIONS BASED ON THE NO LATED CONDUCTOR TYPE. IF THE INSTALLED CONDUCTOR TYPE IS DIFFERENT THAN THE NO LATED TYPE, RE-EVALUATE CONDUCTOR SIZE FOR VOLTAGE DROP AND RE-SIZE FEEDER.
- EVALUATE VOLTAGE DROP AT THE FARTHEST OUTLET OFF OF EACH BUS. INCLUDE LOADS OF OTHER PANELS ON SUCH LOADS. SIZE CONDUCTORS FOR FEEDERS TO THE BUS. VOLTAGE DROP EXCEEDS PERCENT. SIZE CONDUCTORS FOR BRANCH CIRCUITS TO THE BUS. VOLTAGE DROP EXCEEDS PERCENT. THE MAXIMUM TOTAL VOLTAGE DROP FOR BOTH FEEDERS AND BRANCH CIRCUITS TO THE FARTHEST OUTLET SHALL NOT EXCEED PERCENT.

FEEDER SCHEDULE		
KEY	CONDUIT & CONDUCTORS (SEE NOTE 1)	REMARKS
6C	3/4" C - 1#6C	
4C	3/4" C - 1#4G	
3/0C	1" C - 1#3/0	
60A4	1 1/4" C - 4#4	NOTE 5
P300A3	2 1/2" C - 3#350	NOTE 7
200A3G	2" C - 3#3/0, 1#6G	
P600A4	2 1/2 1/2" C - 3#350	NOTE 7

FEEDER SCHEDULE NOTES:

- THE NOMINAL CONDUCTOR AMPLACITIES AND CONDUIT SIZES IN THIS FEEDER SCHEDULE ARE BASED ON: COPPER CONDUCTORS, 60 DEGREE CENTIGRADE TERMINATIONS AND TYPE THW CONDUCTORS FOR SIZES #14 TO #1, AND 75 DEGREE CENTIGRADE TERMINATIONS AND TYPE THW CONDUCTORS FOR SIZES #1/0 AND LARGER. UNLESS NOTED OTHERWISE, CONDUIT IS SIZED BASED ON TYPE EMT CONDUIT. USE OF OTHER CONDUIT AND CONDUCTOR TYPES REQUIRES CONTRACTOR RE-EVALUATION OF CONDUCTOR AMPACITY AND CONDUIT SIZE EVALUATION AND RESIZING OF CONDUIT.
- NOT USED.
- FEEDERS MARKED WITH AN "AW" HAVE A FULL SIZE GROUND CONDUCTOR. PROVIDE PROPERLY SIZED TERMINATIONS.
- FEEDER KEYS MARKED WITH A "T" ARE SIZED BASED ON TYPE SCHEDULE 40 PVC CONDUIT. USE OF OTHER CONDUIT TYPES REQUIRES RESIZING OF CONDUIT.

SHORT CIRCUIT CALCULATION BASED ON IEEE 242-100 METHOD										Version: 1.0	
SHORT CIRCUIT SCHEDULE											
Fault Contributions											
Utility Short Circuit Contribution		25000 A		25000 A		25000 A		25000 A		25000 A	
Transformer Short Circuit Contribution		10000 A		10000 A		10000 A		10000 A		10000 A	
Total Available Fault Current		35000 A		35000 A		35000 A		35000 A		35000 A	
Point Fault Calculations											
Point Description		Required Short Breaker		Required Short Breaker		Required Short Breaker		Required Short Breaker		Required Short Breaker	
		Current (A)	Time (s)	Current (A)	Time (s)	Current (A)	Time (s)	Current (A)	Time (s)	Current (A)	Time (s)
1	Service Entrance MDP	10000	0.05	10000	0.05	10000	0.05	10000	0.05	10000	0.05
2	MDP TO LPA	10000	0.05	10000	0.05	10000	0.05	10000	0.05	10000	0.05
3	MDP TO LPA	10000	0.05	10000	0.05	10000	0.05	10000	0.05	10000	0.05
4											
5	Service Entrance Warehouse	10000	0.05	10000	0.05	10000	0.05	10000	0.05	10000	0.05
6											

NOTES

- CONTRACTOR IS RESPONSIBLE FOR ALL QUANTITIES, FEEDER ROUTING AND INSTALLATION. NO LATED FEEDER LENGTH WAS USED TO CALCULATE THE VOLTAGE DROP AND IS APPROXIMATE QUANTITY. IF THE INSTALLED FEEDER LENGTH IS LONGER THAN THE NO LATED FEEDER LENGTH TO CALCULATE, RE-EVALUATE VOLTAGE DROP AND RE-SIZE FEEDER.

LOADSUM CALCULATIONS

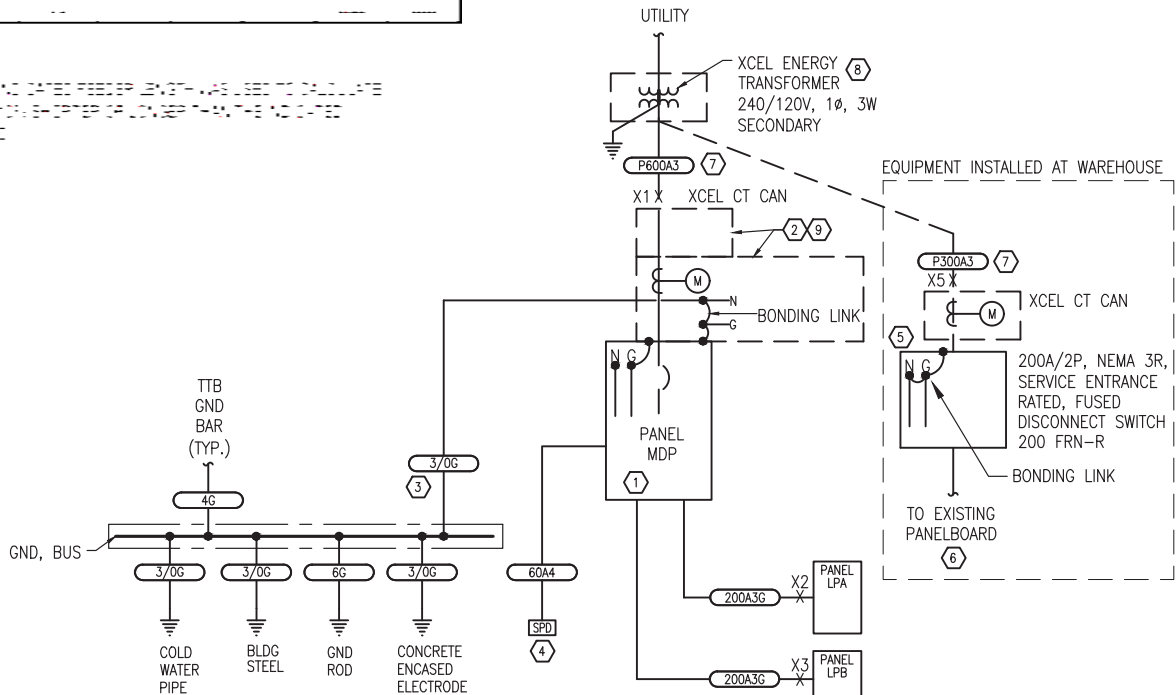
EXISTING LOAD ON WAREHOUSE PANEL:	4 KW
NEW BUILDING LOAD	94 KW
NEW TOTAL LOAD:	98 KW

SHEET NOTES

- POWER DISTRIBUTION LUG SIZES ARE NOT INDICATED ON THIS DRAWING. ENSURE THAT ALL LUGS ARE SIZED TO ACCOMMODATE THE FEEDERS LISTED IN THE FEEDER SCHEDULE.

KEY NOTES

- SEE PANEL SCHEDULE FOR MAIN BREAKER AND OTHER EQUIPMENT CONNECTION INFORMATION. PROVIDE ONE 2" CONDUIT AND FOUR 3/4" CONDUITS FROM MDP TO ABOVE ACCESSIBLE CEILING SPACE FOR FUTURE USE. LABEL CONDUITS AS SPARE.
- UTILITY CT CABINET AND JUNCTION BOX PER THE UTILITY COMPANY REQUIREMENTS FOR NEW SERVICE SIZE. COORDINATE EXACT REQUIREMENTS WITH UTILITY COMPANY PRIOR TO ROUGH-IN.
- MAIN SERVICE GROUNDING ELECTRODE SHALL NOT BE SPLICED EXCEPT AS NOTED IN NEC 250.64(C).
- UL 1449 FOURTH EDITION RATED. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- REPLACE EXISTING 200A2P CIRCUIT BREAKER WITH NEW SERVICE ENTRANCE RATED 200A2P CIRCUIT BREAKER. NEW CIRCUIT BREAKER SHALL BE NEMA 3R RATED.
- CONNECT NEW SERVICE RATED DISCONNECT SWITCH TO EXISTING PANELBOARD.
- FEEDER SIZE INCREASED TO ACCOMMODATE VOLTAGE DROP.
- COORDINATE NEW UTILITY SERVICE WITH XCEL ENERGY. SAM WAKEFIELD, 970-625-6028. TO MINIMIZE DOWN TIME, COORDINATE DEMOLITION AND INSTALLATION TO LIMIT DOWNTIME TO WAREHOUSE. SUGGESTED SEQUENCE OF CONSTRUCTION:
 - DEMOLISH ENGINEER'S OFFICE.
 - INSTALL NEW FEEDERS TO WAREHOUSE PER UTILITY PLAN ROUTING.
 - REMOVE WAREHOUSE MAIN BREAKER.
 - INSTALL WAREHOUSE SERVICE ENTRANCE FUSED DISCONNECT SWITCH.
 - CONNECT NEW FEEDERS TO WAREHOUSE FUSED DISCONNECT SWITCH.
 - RECONNECT EXISTING WAREHOUSE ELECTRICAL SERVICE TO FUSED DISCONNECT.
- PROVIDE GROUND MOUNTED DISTRIBUTION PANEL AND UTILITY METER ENCLOSURE, SQUARE D SPEEDI SERIES OR EQUAL. MINIMIZE SIZE OF EQUIPMENT WHERE POSSIBLE. PROVIDE CONCRETE PAD FOR EQUIPMENT.



1
E-001
ONE-LINE DIAGRAM
SCALE: NONE



UNITED STATES
DEPARTMENT OF AGRICULTURE
FOREST SERVICE

R2

ROCKY MOUNTAIN
REGION

STAMPS, LOGOS, AND
SEALS



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ASPEN / SOPRIS RANGER DISTRICT

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ELECTRICAL
ONE-LINE
DIAGRAM

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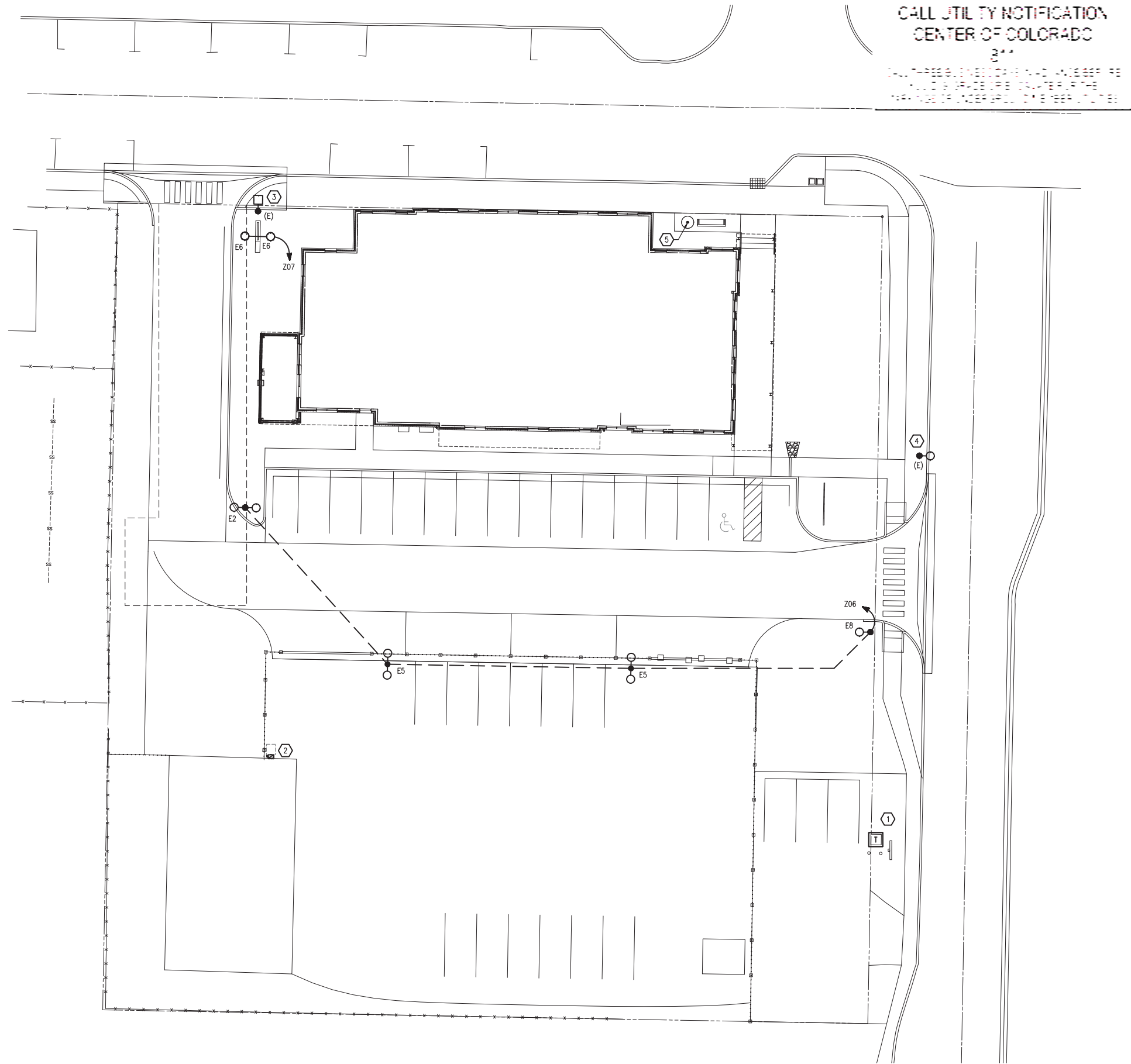
DESIGNER
K. CREMONA
CHECKED
M. BILLINGTON

DATE
07/09/2020

SUB SHEET
NO.
E001

SHEET
102 OF 119

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CALL UTILITY NOTIFICATION
CENTER OF COLORADO
800-455-5888
WWW.COCCOLORADO.COM
FOR A FREE UTILITY LOCATION SERVICE
BEFORE ANY EXCAVATION OR TRENCHING

SHEET NOTES

1. INCLUDE ALL COST, LABOR, MATERIAL, SERVICE ENTRANCE INSTALLATION, CONNECTION, FINAL TERMINATION, START-UP, TESTING, PERMIT FEES, AND ALL OTHER APPLICABLE FEES.
2. LOCATE ALL EXISTING UNDERGROUND UTILITIES PRIOR TO TRENCHING AND INSTALL ALL UNDERGROUND RACEWAYS IN MOST FEASIBLE LOCATION.
3. COORDINATE ELECTRICAL EQUIPMENT LOCATIONS AND UNDERGROUND ROUTING WITH UTILITIES AND OTHER TRADES PRIOR TO TRENCHING AND SETTING EQUIPMENT PADS.
4. PATCH AND PAINT ANY DAMAGED SURFACES DUE TO CONSTRUCTION TO MATCH EXISTING CONDITIONS.
5. PROVIDE ALL TRENCHING, BACKFILL AND SAW CUTTING. RETURN ALL LANDSCAPING, PAVEMENT, AND FLATWORK BACK TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
6. PROVIDE BOLLARDS AS REQUIRED TO PROTECT EQUIPMENT FROM DAMAGE.
7. REFER TO CIVIL AND LANDSCAPE PLANS FOR ADDITIONAL INFORMATION.
8. REFER TO SHEET E-303 FOR CONTROL AND CIRCUITING OF EXTERIOR SITE LIGHTING.

KEY NOTES

1. EXISTING XCEL ENERGY UTILITY TRANSFORMER. COORDINATE ACCESS TO TRANSFORMER FOR CONNECTIONS WITH XCEL AND EQUIPMENT DOWNTIME WITH CONTRACTING OFFICER PRIOR TO DE-ENERGIZING EQUIPMENT. SEE CIVIL DRAWINGS FOR FEEDER ROUTING TO BUILDING.
2. PROVIDE SERVICE RATED FUSED DISCONNECT SWITCH TO SERVE THE WAREHOUSE. DISCONNECT AND REMOVE EXISTING 200A/2P ENCLOSED CIRCUIT BREAKER FEEDING THE WAREHOUSE BUILDING AFTER NEW UTILITY SERVICE IS INSTALLED. RECONNECT EXISTING WAREHOUSE SERVICE TO NEW DISCONNECT SWITCH. COORDINATE EXACT LOCATION OF DISCONNECT SWITCH WITH CONTRACTING OFFICER PRIOR TO ROUGH-IN. REFER TO CIVIL UTILITY PLAN FOR ROUTING OF NEW UNDERGROUND FEEDERS FROM UTILITY TRANSFORMER TO DISCONNECT SWITCH TO AVOID FUTURE BUILDING SITE. COORDINATE INSTALLATION WITH EXISTING BUILDING XCEL METER AND UTILITY SERVICE DEMOLITION TO LIMIT THE DOWNTIME TO THE WAREHOUSE. SEE ONE-LINE FOR ADDITIONAL INFORMATION.
3. EXISTING TOWN LIGHT POLE RELOCATED TO THIS LOCATION. REFER TO CIVIL PLANS FOR EXISTING POLE LOCATION.
4. EXISTING XCEL LIGHT POLE RELOCATED TO THIS LOCATION. REFER TO CIVIL PLANS FOR EXISTING POLE LOCATION.
5. PROVIDE LIGHT FOR FLAG POLE (FLAG POLE WAREHOUSE #208362 WITH #208398 DRIVER). LOCATE DRIVER IN ELECT. 123. LIGHTING ZONE Z10. SEE SHEET E-303, LIGHTING CONTROL ONE-LINE FOR MORE INFORMATION. BOND THE FLAG POLE TO THE BUILDING STEEL.



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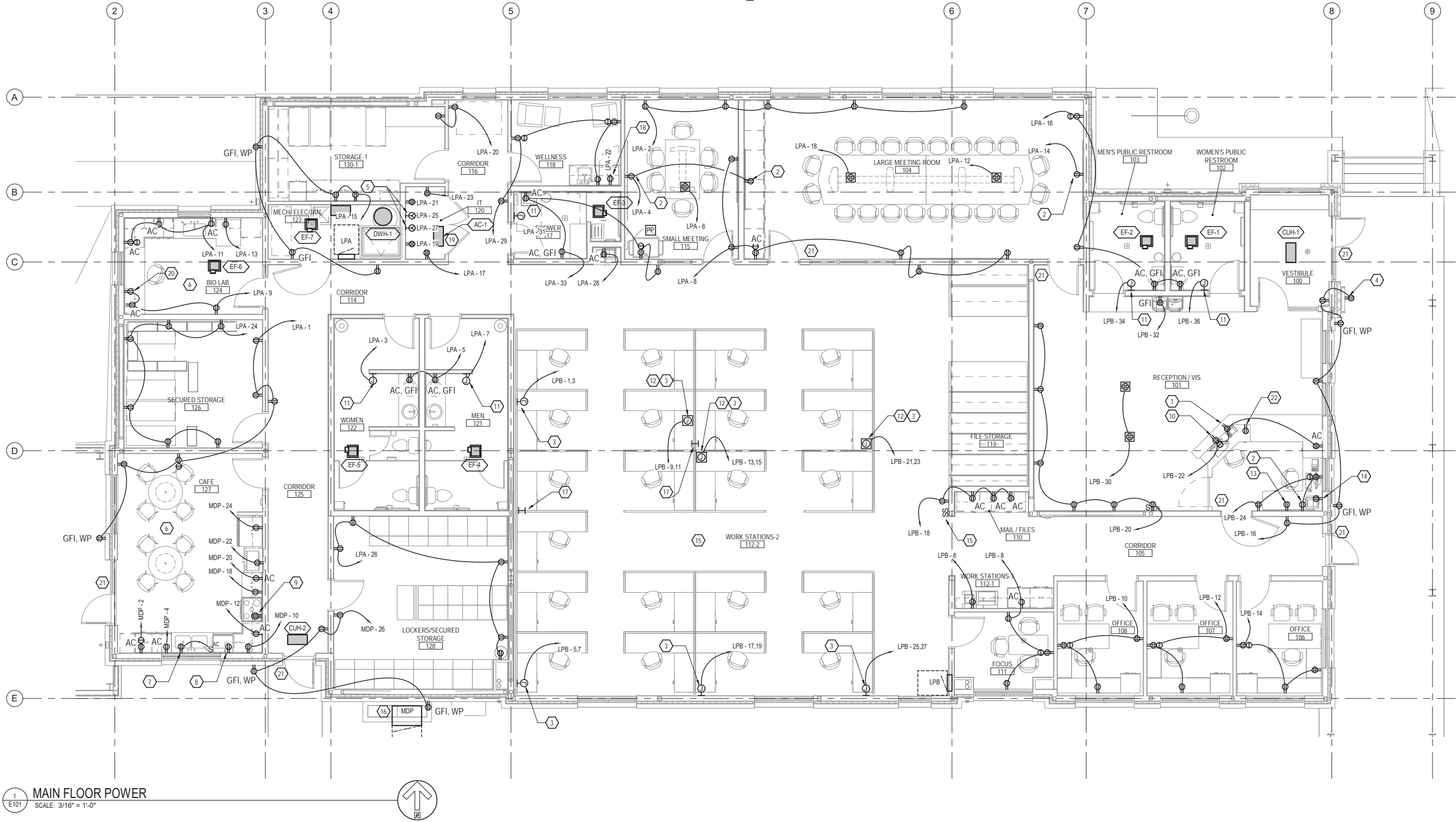
DESIGNER K. CREMONA	SUB SHEET NO. E100
CHECKED M. BILLINGTON	
DATE 07/09/2020	SHEET 103 OF 119

SHEET NOTES

1. CONFIRM EXACT MOUNTING LOCATION OF MECHANICAL EQUIPMENT WITH THE MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
2. COORDINATE CEILING CONDUIT ROUGH-IN WITH MECHANICAL CONTRACTOR TO ENSURE NO CONFLICTS IN ABOVE CEILING SPACE.
3. PANEL SCHEDULES TO REFLECT INSTALLED CONDITIONS AFTER CONSTRUCTION IS COMPLETE.
4. REFER TO MECHANICAL DRAWINGS FOR MECHANICAL EQUIPMENT CONNECTION REQUIREMENTS.

KEYNOTES

- 1 MOUNT INDICATED DEVICE TO BUILT-IN FURNITURE. ROUTE CONDUIT WITHIN DESK STRUCTURE.
- 2 PROVIDE RECEPTACLE ADJACENT TO DATA OUTLET AT +72" AFF FOR MONITOR. PROVIDE RECESSED MOUNTING BOX FOR RECEPTACLE AND DATA OUTLET TO ENABLE FLUSH MOUNTING OF MONITOR.
- 3 POWER PARTITION CONNECTION.
- 4 COORDINATE CONNECTION TO LIGHT FIXTURE IN EXTERIOR DISPLAY CABINET. SEE A201 AND DISPLAY CASE SPEC.
- 5 WALL MOUNTED L5-30R TWISTLOCK RECEPTACLE FOR RACK MOUNTED UPS. COORDINATE EXACT LOCATION WITH CONTRACTING OFFICER PRIOR TO ROUGH-IN.
- 6 ALL 20A RECEPTACLES IN THIS ROOM SHALL BE GFCI TYPE.
- 7 DISPOSAL CONNECTED TO MDP-8.
- 8 DISHWASHER CONNECTED TO MDP-6.
- 9 RANGE CONNECTED TO MDP-14,16. HOOD CONNECTED TO MDP-28.
- 10 MOUNT INDICATED DEVICE ABOVE COUNTER ON RECEPTIONIST SIDE OF THE DESK. COMPLY WITH KEY NOTE #1.
- 11 CONNECT HAND DRYER TO CIRCUIT INDICATED.
- 12 FLUSH FLOOR BOX CONNECTION
- 13 PROVIDE POWER FOR RADIO. COORDINATE EXACT LOCATION WITH CONTRACTING OFFICER PRIOR TO ROUGH-IN. CONNECT TO LPB-26.
- 14 PROVIDE POWER FOR PRINTER BELOW COUNTER. CONNECT TO LPB-28. COORDINATE EXACT LOCATION WITH CONTRACTING OFFICER.
- 15 PROVIDE CONNECTION TO MOTORIZED SHADES. PROVIDE TWO SWITCHES TO CONTROL THE NORTH MOTORIZED SHADES AND THE SOUTH MOTORIZED SHADES SEPARATELY. CONNECT TO CIRCUITS LPB-2, 4.
- 16 PROVIDE CONCRETE PAD FOR FREE-STANDING MDP
- 17 CIRCUITING SPLIT FOR PARTITION.
- 18 CONNECT UNDER COUNTER REFRIGERATOR TO LPA-22.
- 19 ALL 20A RECEPTACLES IN THIS ROOM SHALL BE SPD TYPE.
- 20 MOUNT DEVICE UNDER COUNTER.
- 21 PROVIDE JUNCTION BOX AND CONDUIT TO ABOVE ACCESSIBLE CEILING FOR FUTURE CARD ACCESS KEYPAD. PROVIDE BLANK COVERPLATE.
- 22 PROVIDE RECEPTACLE FOR DURESS ALARM. ALARM WILL INCLUDE PUSH BUTTON AT RECEPTION DESK AND TWO STROBE LIGHTS MOUNTED IN THE BUILDING FOR NOTIFICATION PURPOSES. STROBE LIGHTS WILL BE MOUNTED AT +80" AFF. COORDINATE EXACT LOCATION WITH TELECOM CONTRACTOR AND CONTRACTING OFFICER PRIOR TO ROUGH-IN. CONNECT TO LPB-38



1 MAIN FLOOR POWER
E101 SCALE: 3/16" = 1'-0"



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R2
ROCKY MOUNTAIN
REGION

STAMPS, LOGOS, AND
SEALS



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DRAWING TITLE
**FIRST FLOOR
ELECTRICAL PLAN**

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DATE 07/09/2020	SHEET 104 OF 119

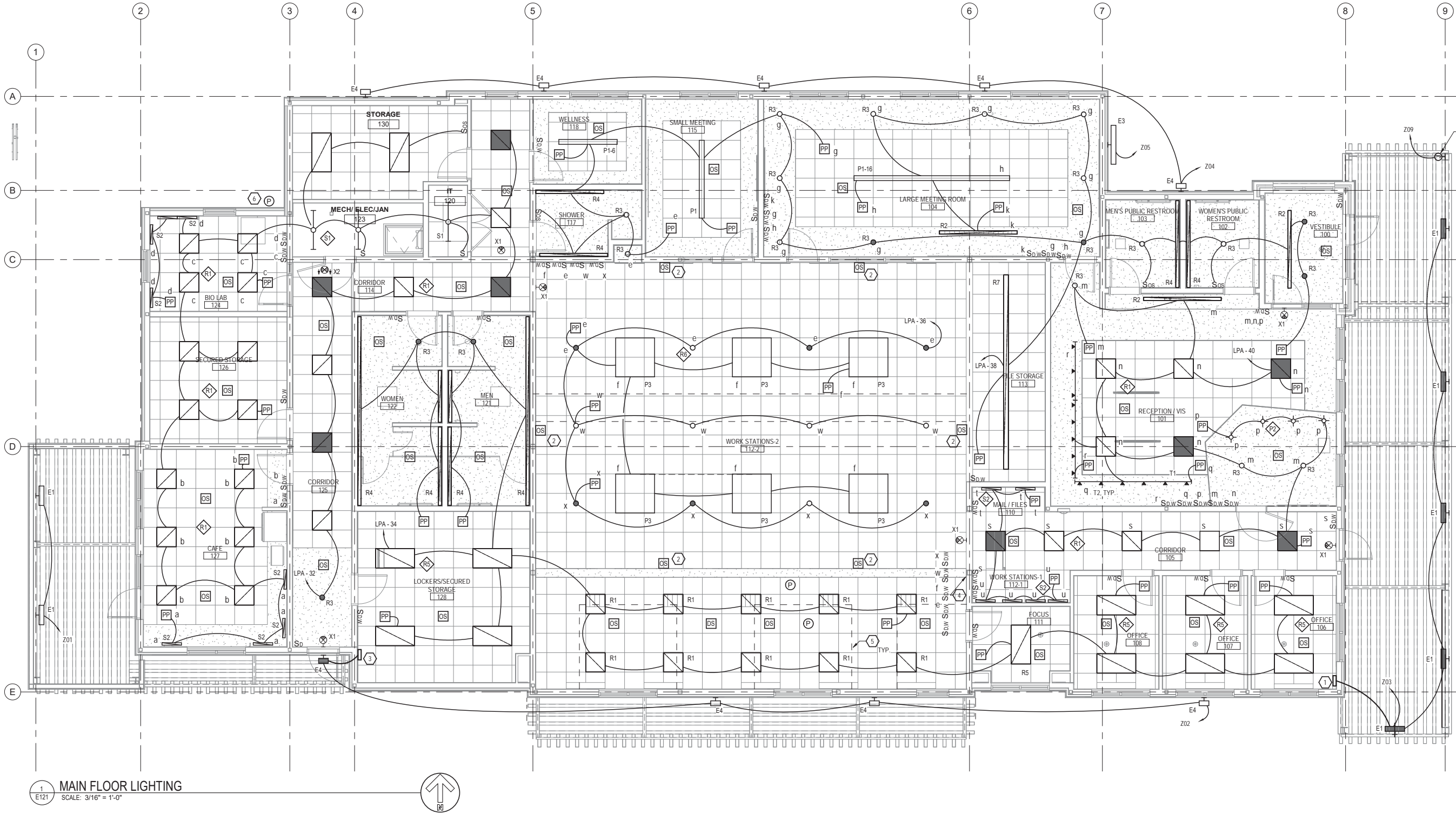
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SHEET NOTES

- COORDINATE CEILING CONDUIT ROUGH-IN WITH MECHANICAL CONTRACTOR TO ENSURE NO CONFLICTS IN ABOVE CEILING SPACE.
- UPDATE PANEL SCHEDULES TO REFLECT INSTALLED CONDITIONS AFTER CONSTRUCTION IS COMPLETE.
- UPPERCASE LETTER DENOTES LUMINAIRE TYPE. LOWERCASE LETTER INDICATES CONTROL ZONE.
- CONNECT EMERGENCY LUMINAIRES AND EXIT SIGNS AHEAD OF SWITCHING AND RELAY PANEL CONTROL UNLESS SPECIFICALLY NOTED OTHERWISE.
- PROVIDE EMERGENCY TRANSFER RELAYS FOR ALL EMERGENCY LIGHTING THAT ARE SWITCHED OR DIMMED.
- TO ACHIEVE THE INDICATED SEQUENCE OF OPERATION, PROVIDE ALL COMPONENTS REQUIRED FOR THE LIGHTING CONTROL SYSTEM, WHETHER INDICATED OR NOT.
- PROVIDE DIMMERS COMPATIBLE WITH LED DRIVERS AND POWER SUPPLIES PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE COMPONENTS AND ACCESSORIES TO ACCOMPLISH COMPLETE DIMMING FUNCTIONALITY AS SHOWN ON PLANS AND NOTED IN THE LUMINAIRE SCHEDULE.
- FOR LIGHT DIMMING BRANCH CIRCUITS, PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT CURRENT CARRYING CONDUCTOR. CIRCUITS MAY BE COMBINED INTO HOMERUNS OF UP TO SIX CURRENT CARRYING CONDUCTORS WITH PROPER DE-RATING AS REQUIRED BY NEC. PROVIDE FULL LENGTH STRIPING FOR DEDICATED NEUTRALS TO MATCH ASSOCIATED CURRENT CARRYING CONDUCTOR COLOR.
- REFER TO SHEET E-303 FOR CONTROL AND CIRCUITING OF EXTERIOR BUILDING MOUNTED LIGHTING.

KEYNOTES

- PROVIDE 55W BATTERY BACK UP WITH REMOTE TEST SWITCH FOR TYPE E1 LUMINAIRES SHOWN WITH SHADING FOR EGRESS LIGHTING (DUAL LITE LPS-55-S RTSLP). LOCATE ABOVE ACCESSIBLE CEILING.
- PROVIDE WALL MOUNTED OCCUPANCY SENSOR MOUNTED AT 10' AFF (LUTRON LRF2-OWLB-P-WH).
- PROVIDE 20W BATTERY BACK UP WITH REMOTE TEST SWITCH FOR TYPE E4 LUMINAIRE SHOWN WITH SHADING FOR EGRESS LIGHTING (DUAL LITE LPS-20-S RTSLP). LOCATE ABOVE ACCESSIBLE CEILING.
- LOCATE DIMMING SWITCHES HERE ON THIS WALL.
- DAYLIGHT ZONE INDICATED BY DASHED LINE.
- PHOTOCELL FOR EXTERIOR LIGHTING CONTROL. REFER TO SHEET E303 FOR MORE INFORMATION.
- PROVIDE J-BOX FOR TRELLIS MOUNTED SIGN. REFER TO SHEET E-303 FOR LIGHTING CONTROL AND CIRCUITING. MOUNT J-BOX OUT OF VIEW AND CONCEAL CONDUIT FROM VIEW AS MUCH AS POSSIBLE.

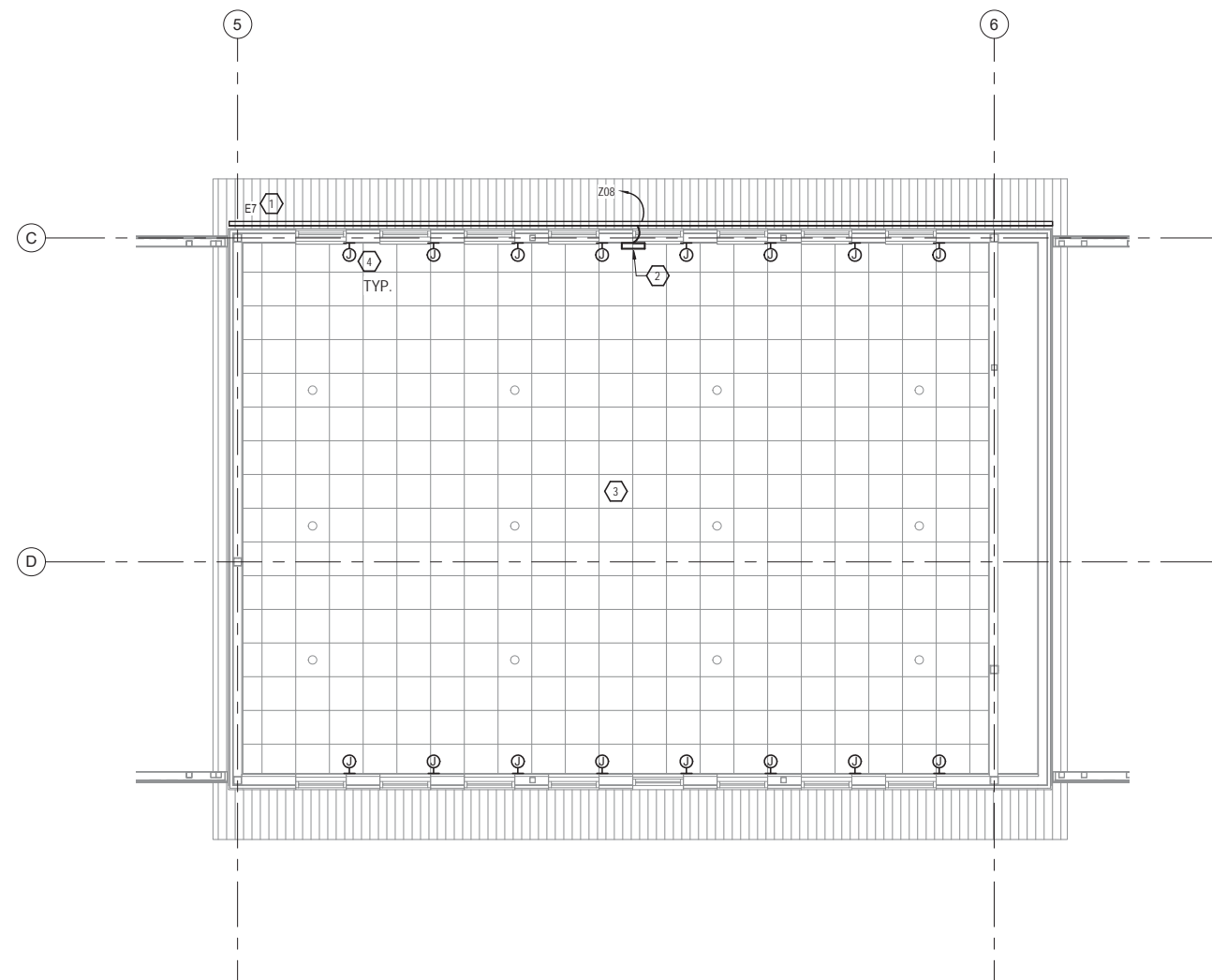


SHEET NOTES

1. COORDINATE CEILING CONDUIT ROUGH-IN WITH MECHANICAL CONTRACTOR TO ENSURE NO CONFLICTS IN ABOVE CEILING SPACE.
2. UPDATE PANEL SCHEDULES TO REFLECT INSTALLED CONDITIONS AFTER CONSTRUCTION IS COMPLETE.
3. UPPERCASE LETTER DENOTES LUMINAIRE TYPE. LOWERCASE LETTER INDICATES CONTROL ZONE.
4. CONNECT EMERGENCY LUMINAIRES AND EXIT SIGNS AHEAD OF SWITCHING AND RELAY PANEL CONTROL UNLESS SPECIFICALLY NOTED OTHERWISE.
5. PROVIDE EMERGENCY TRANSFER RELAYS FOR ALL EMERGENCY LIGHTING THAT ARE SWITCHED OR DIMMED.
6. PROVIDE DIMMERS COMPATIBLE WITH LED DRIVERS AND POWER SUPPLIES PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE COMPONENTS AND ACCESSORIES TO ACCOMPLISH COMPLETE DIMMING FUNCTIONALITY AS SHOWN ON PLANS AND NOTED IN THE LUMINAIRE SCHEDULE.
7. TO ACHIEVE THE INDICATED SEQUENCE OF OPERATION, PROVIDE ALL COMPONENTS REQUIRED FOR THE LIGHTING CONTROL SYSTEM, WHETHER INDICATED OR NOT.
8. PROVIDE DIMMERS COMPATIBLE WITH LED DRIVERS AND POWER SUPPLIES PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE COMPONENTS AND ACCESSORIES TO ACCOMPLISH COMPLETE DIMMING FUNCTIONALITY AS SHOWN ON PLANS AND NOTED IN THE LUMINAIRE SCHEDULE.
9. FOR LIGHT DIMMING BRANCH CIRCUITS, PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT CARRYING CURRENT CARRYING CONDUCTOR. CIRCUITS MAY BE COMBINED INTO HOMERUNS OF UP TO SIX CURRENT CARRYING CONDUCTORS WITH PROPER DE-RATING AS REQUIRED BY NEC. PROVIDE FULL LENGTH STRIPING FOR DEDICATED NEUTRALS TO MATCH ASSOCIATED CURRENT CARRYING CONDUCTOR COLOR.

KEYNOTES

- ① SEE SHEET A511, DETAIL 1 FOR MOUNTING LOCATION OF LIGHT FIXTURE.
- ② LOCATE REMOTE DRIVER FOR TYPE E7 ABOVE ACCESSIBLE CEILING IN WORK STATIONS-2 (RM 112-2).
- ③ SEE SHEET E121 FOR LIGHTING IN THIS CEILING.
- ④ J-BOX FOR MOTORIZED SHADES. REFER TO SHEET E101, KEY NOTE #15 FOR CIRCUITING AND ADDITIONAL INFORMATION.



1
E122 CLERESTORY ELECTRICAL AND EXTERIOR LIGHTING PLAN
SCALE: 3/16" = 1'-0"






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R2
ROCKY MOUNTAIN
REGION

STAMPS, LOGOS, AND SEALS



		
		
		
NO:	ISSUED FOR:	DATE:

PROJECT NAME
**ASPEN-SOPRIS
RANGER DISTRICT
OFFICE**

ASPEN / SOPRIS RANGER DISTRICT

DRAWING TITLE

**CLERESTORY
ELECTRICAL AND
EXTERIOR
LIGHTING PLAN**

ARCHIVE
NO. 100% CONSTRUCTION DOCUMENTS

DESIGNER SHOFFNER	SUB SHEET NO. E122
CHECKED M. BILLINGTON	
DATE 07/09/2020	SHEET 106 OF 119

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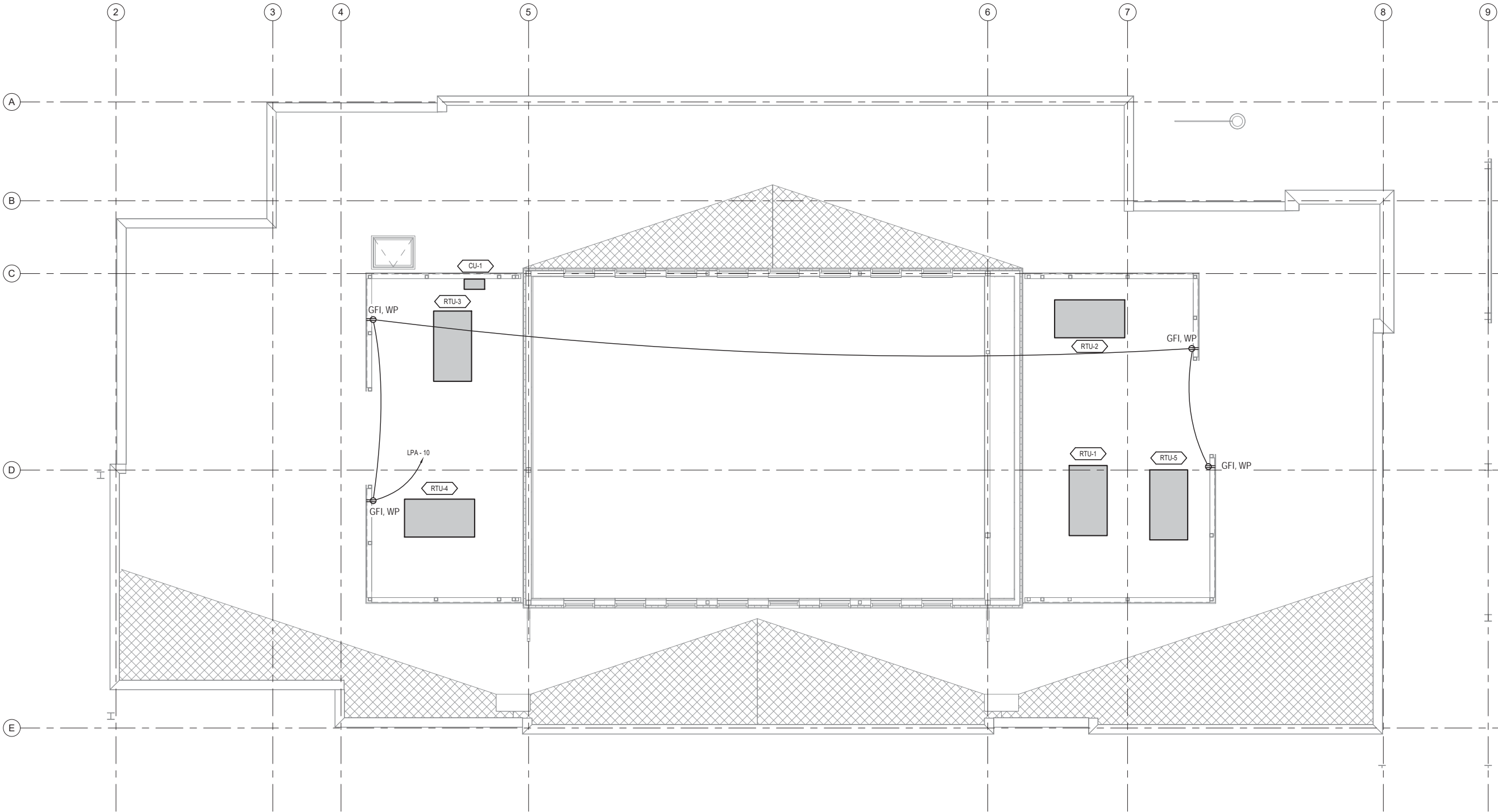
PROJECT NAME
**ASPEN-SOPRIS
RANGER DISTRICT
OFFICE**

ASPEN / SOPRIS RANGER DISTRICT

DRAWING TITLE
**ROOF ELECTRICAL
PLAN**

ARCHIVE
NO. 100% CONSTRUCTION DOCUMENTS

DESIGNER SHOFFNER	SUB SHEET NO.
CHECKED M. BILLINGTON	E123
DATE 07/09/2020	SHEET 107 OF 119



1
E123
ROOF POWER PLAN
SCALE: 3/16" = 1'-0"



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PANEL: **MDP**

VOLTAGE: 120/240 V.

TYPE: LIGHTING & APPLIANCE

FED FROM: UTILITY

400 AMP MAIN RATED AT 100%

N/A AMP MAIN LUGS

600 AMP BUS

COPPER BUSING

(SEE FAULT SCHEDULE)

MOUNTING: SURFACE

PANEL COVER: FLUSH

NEUTRAL BUS: YES

GROUND BUS: YES

ISOLATED GND. NO

NOTE: 1. NEMA 3R ENCLOSURE

2. GFCI BREAKER

3. []

4. []

NOTE	DESCRIPTION	CCT VA	BREAKER AMP / P	CCT PH CCT	BREAKER AMP / P	CCT VA	DESCRIPTION	NOTE
	RTU-1	4200	50 / 1	1 A 2	20 / 1	180	KITCHEN RECEPT	
	"	4200	50 / 2	3 B 4	20 / 1	180	KITCHEN RECEPT	
	RTU-5	4200	50 / 1	5 A 6	20 / 1	800	DISHWASHER	
	"	4200	50 / 2	7 B 8	20 / 1	1130	DISPOSER	
	RTU 2	5880	70 / 1	9 A 10	20 / 1	800	ICEMAKER	
	"	5880	50 / 2	11 B 12	20 / 1	180	KITCHEN RECEPT	
	RTU 3	4200	50 / 1	13 A 14	40 / 1	1100	RANGE	2
	"	4200	50 / 2	15 B 16	20 / 1	1100	"	
	RTU 4	3600	40 / 1	17 A 18	20 / 1	180	KITCHEN RECEPT	
	"	3600	40 / 2	19 B 20	20 / 1	180	KITCHEN RECEPT	
	CUH 1	1500	20 / 1	21 A 22	20 / 1	400	FREEZER	
	CUH 2	1500	20 / 1	23 B 24	20 / 1	220	REFRIGERATOR	
	CUH-3	1500	20 / 1	25 A 26	20 / 1	720	CORR. EXT RECEPT	
	SPARE	0	20 / 1	27 B 28	20 / 1	200	HOOD	
	SPARE	0	20 / 2	29 A 30	20 / 1	0	SPARE	
	SPARE	0	20 / 1	31 B 32	20 / 1	0	SPARE	
	SPARE	0	20 / 1	33 A 34	20 / 1	0	SPARE	
	SPARE	0	20 / 1	35 B 36	20 / 1	0	SPARE	
	SPARE	0	20 / 1	37 A 38	20 / 1	0	SPARE	
	LPA	14860	200 / 1	39 B 40	200 / 1	11040	LPB	
	"	16252	200 / 2	41 A 42	200 / 2	11000	"	

PANEL LOADING SUMMARY

LOAD TYPE	PH A	PH B	TOTAL
INCANDESCENT	0.0	0.0	0.0 kVA
INDUCTIVE LTG	3.5	3.0	6.5 kVA
RECEPTACLES	18.6	19.3	37.9 kVA
MOTORS	23.8	24.2	48.0 kVA
APPLIANCES	7.0	4.5	11.5 kVA
HEAT	3.6	1.5	5.1 kVA
COMPUTER	0.0	0.0	0.0 kVA
OTHER	0.0	0.2	0.2 kVA
NONCOINCIDENT	0.0	0.0	0.0 kVA
PEAK LOAD	0.0	0.0	0.0 kVA
TOTAL	56.5	52.7	109 kVA

PHASE BALANCE (%)

A	B	PF
93	87	

MIN PANEL AMPACITY

392

AMPERES

NEC DEMAND LOAD SUMMARY

LOAD TYPE	kW	FACT	kVA	FACTOR	LOAD
INCANDESCENT	0.0	@ 100%	=	0.0	@ 100% = 0.0 kVA
INDUCTIVE LTG	6.2	@ 95%	=	6.5	@ 100% = 6.5 kVA
RECEPTACLES					
FIRST 10 kVA	9.5	@ 95%	=	10.0	@ 100% = 10.0 kVA
REMAINDER	26.5	@ 95%	=	27.9	@ 50% = 14.0 kVA
MOTORS					
LARGEST	9.4	@ 80%	=	11.8	@ 125% = 14.7 kVA
REMAINDER	29.0	@ 80%	=	36.2	@ 100% = 36.2 kVA
APPLIANCES	9.2	@ 80%	=	11.5	@ 65% = 7.4 kVA
HEAT	5.1	@ 100%	=	5.1	@ 100% = 5.1 kVA
COMPUTER	0.0	@ 95%	=	0.0	@ 100% = 0.0 kVA
OTHER	0.2	@ 85%	=	0.2	@ 100% = 0.2 kVA
NONCOINCIDENT	0.0	@ 95%	=	0.0	@ 0% = 0.0 kVA
PEAK LOAD	0.0	@ 90%	=	0.0	@ 125% = 0.0 kVA
0 % SPARE	0.0	@ 90%	=	0.0	@ 100% = 0.0 kVA
TOTAL	95.1	kW		109	kVA

Version 1217

PANEL: **LPA**

VOLTAGE: 120/240 V.

TYPE: LIGHTING & APPLIANCE

FED FROM: MDP

200 AMP MAIN RATED AT 80%

N/A AMP MAIN LUGS

225 AMP BUS

COPPER BUSING

(SEE FAULT SCHEDULE)

MOUNTING: SEE PLAN

PANEL COVER: DOOR IN HINGED COVER

NEUTRAL BUS: YES

GROUND BUS: YES

ISOLATED GND. NO

NOTE: 1. []

2. []

3. []

4. []

NOTE	DESCRIPTION	CCT VA	BREAKER AMP / P	CCT PH CCT	BREAKER AMP / P	CCT VA	DESCRIPTION	NOTE
	EXT. CAFE, CORR RECEPT	1080	20 / 1	1 A 2	20 / 1	900	SM. LRG MEETING RECEPT	
	WOMENS HAND DRYER	800	20 / 1	3 B 4	20 / 1	360	SM. LRG MEETING MONITOR	
	RESTROOM RECEPT	360	20 / 1	5 A 6	20 / 1	360	SM MEETING RM FLR RECEPT	
	MENS HAND DRYER	800	20 / 1	7 B 8	20 / 1	1080	SM. LRG MEETING RECEPT	
	BIO LAB RECEPT	540	20 / 1	9 A 10	20 / 1	720	ROOF RECEPT.	
	BIO LAB RECEPT	540	20 / 1	11 B 12	20 / 1	360	LRG MEETING FLR RECEPT	
	BIO LAB REFRIG	600	20 / 1	13 A 14	20 / 1	180	LRG MEETING MONITOR	
	CORR. MECH. EXT. CORR	900	20 / 1	15 B 16	20 / 1	720	LRG MEETING, RR RECEPT	
	IT RECEPT	360	20 / 1	17 A 18	20 / 1	360	LRG MEETING FLR RECEPT	
	IT RECEPT	360	20 / 1	19 B 20	20 / 1	360	LAMINATOR, PLOTTER	
	IT RECEPT	360	20 / 1	21 A 22	20 / 1	400	WELLNESS REFRIDGE	
	IT RECEPT	360	20 / 1	23 B 24	20 / 1	1080	SECURED STORAGE RECEPT	
	IT RECEPT	1200	30 / 1	25 A 26	20 / 1	900	LOCKER RECEPT	
	IT RECEPT	1200	30 / 1	27 B 28	20 / 1	700	CUBICLE PRINTER	
	CORR. WELLNESS	720	20 / 1	29 A 30	20 / 1	400	EF-123456 / TP-1 DWCP-1	
	SHOWER HAND DRYER	800	20 / 1	31 B 32	20 / 1	1179	CAFE, BIO, CORR, ELEC	
	SHOWER, SM MEETING RECEPT	720	20 / 1	33 A 34	20 / 1	1226	LOCKER, RSTRM, OFFICES	
	CU-1, AC-1	1700	25 / 1	35 B 36	20 / 1	1050	WORK STATION 2, EXT CLERES	
	"	1700	25 / 2	37 A 38	20 / 1	1086	MTG RMS, SHWR, PRSTRMS	
	DWH-1	600	20 / 1	39 B 40	20 / 1	1303	RECEPTION, CORR	
	SPARE	0	20 / 1	41 A 42	20 / 1	688	EXT. SITE & BLDG MOUNT	

PANEL LOADING SUMMARY

LOAD TYPE	PH A	PH B	TOTAL
INCANDESCENT	0.0	0.0	0.0 kVA
INDUCTIVE LTG	3.0	3.5	6.5 kVA
RECEPTACLES	8.8	7.3	16.1 kVA
MOTORS	2.1	1.7	3.8 kVA
APPLIANCES	1.0	3.1	4.1 kVA
HEAT	0.0	0.6	0.6 kVA
COMPUTER	0.0	0.0	0.0 kVA
OTHER	0.0	0.0	0.0 kVA
NONCOINCIDENT	0.0	0.0	0.0 kVA
PEAK LOAD	0.0	0.0	0.0 kVA
TOTAL	14.9	16.3	31.1 kVA

PHASE BALANCE (%)

A	B	PF
91	91	

MIN PANEL AMPACITY

123

AMPERES

NEC DEMAND LOAD SUMMARY

LOAD TYPE	kW	FACT	kVA	FACTOR	LOAD
INCANDESCENT	0.0	@ 100%	=	0.0	@ 125% = 0.0 kVA
INDUCTIVE LTG	6.2	@ 95%	=	6.5	@ 125% = 8.2 kVA
RECEPTACLES					
FIRST 10 kVA	9.5	@ 95%	=	10.0	@ 100% = 10.0 kVA
REMAINDER	5.8	@ 95%	=	6.1	@ 50% = 3.0 kVA
MOTORS					
LARGEST	2.7	@ 80%	=	3.4	@ 125% = 4.3 kVA
REMAINDER	0.3	@ 80%	=	0.4	@ 100% = 0.4 kVA
APPLIANCES	3.3	@ 80%	=	4.1	@ 65% = 2.7 kVA
HEAT	0.6	@ 100%	=	0.6	@ 125% = 0.8 kVA
COMPUTER	0.0	@ 95%	=	0.0	@ 100% = 0.0 kVA
OTHER	0.0	@ 85%	=	0.0	@ 100% = 0.0 kVA
NONCOINCIDENT	0.0	@ 95%	=	0.0	@ 0% = 0.0 kVA
PEAK LOAD	0.0	@ 90%	=	0.0	@ 125% = 0.0 kVA
0 % SPARE	0.0	@ 90%	=	0.0	@ 100% = 0.0 kVA
TOTAL	28.4	kW		31.1	kVA

Version 1217

PROVIDE A 60 CIRCUIT PANEL WITH 20A/1P BREAKERS FOR ALL SPARE BREAKERS.



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PROJECT NAME
**ASPEN-SOPRIS
RANGER DISTRICT
OFFICE**

ASPEN / SOPRIS RANGER DISTRICT

DRAWING TITLE
**ELECTRICAL
SCHEDULES**

ARCHIVE NO. 100% CONSTRUCTION DOCUMENTS	
DESIGNER K. CREMONA	SUB SHEET NO.
CHECKED M. BILLINGTON	E300
DATE 07/09/2020	SHEET 108 OF 119

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PANEL: **LPB**

FED FROM: MDP

200 AMP MAIN RATED AT 80%

N/A AMP MAIN LUGS

225 AMP BUS

COPPER BUSING

(SEE FAULT SCHEDULE) SYMMETRICAL RMS AMPS

PANEL SHORT CIRCUIT RATING

VOLTAGE: 120/240 V.

1 PH 3 W. 60 HZ

TYPE: LIGHTING & APPLIANCE

MOUNTING: SEE PLAN

PANEL COVER: DOOR IN HINGED COVER

NEUTRAL BUS: YES

GROUND BUS: YES

ISOLATED GND: NO

NOTE: 1. []

2. []

3. []

4. []

NOTE	DESCRIPTION	CCT VA	BREAKER AMP / P	CCTPH CCT	BREAKER AMP / P	CCT VA	DESCRIPTION	NOTE
	PARTITION FURNITURE	540	20 / 1	1 A 2	20 / 1	400	CLERESTORY SHADES	
	PARTITION FURNITURE	540	20 / 1	3 B 4	20 / 1	400	CLERESTORY SHADES	
	PARTITION FURNITURE	540	20 / 1	5 A 6	20 / 1	700	COPIER	
	PARTITION FURNITURE	540	20 / 1	7 B 8	20 / 1	720	FOCUS 111	
	PARTITION FURNITURE	720	20 / 1	9 A 10	20 / 1	900	OFFICE 108	
	PARTITION FURNITURE	720	20 / 1	11 B 12	20 / 1	900	OFFICE 107	
	PARTITION FURNITURE	720	20 / 1	13 A 14	20 / 1	900	OFFICE 106	
	PARTITION FURNITURE	720	20 / 1	15 B 16	20 / 1	1080	EXTERIOR & CORRIDOR RECEP	
	PARTITION FURNITURE	900	20 / 1	17 A 18	20 / 1	720	MAIL RECEPTS	
	PARTITION FURNITURE	900	20 / 1	19 B 20	20 / 1	1080	EXHIBIT RECEPTS	
	PARTITION FURNITURE	540	20 / 1	21 A 22	20 / 1	1080	RECEPTION RECEPTS	
	PARTITION FURNITURE	540	20 / 1	23 B 24	20 / 1	900	RECEPTION DESK	
	PARTITION FURNITURE	360	20 / 1	25 A 26	20 / 1	300	RADIO POWER	
	PARTITION FURNITURE	360	20 / 1	27 B 28	20 / 1	500	RECEPTION PRINTER	
	SPARE	0	20 / 1	29 A 30	20 / 1	720	EXHIBIT FLOOR RECEPTS	
	SPARE	0	20 / 1	31 B 32	20 / 1	300	EWC	
	SPARE	0	20 / 1	33 A 34	20 / 1	800	HAND DRYER	
	SPARE	0	20 / 1	35 B 36	20 / 1	800	HAND DRYER	
	SPARE	0	20 / 1	37 A 38	20 / 1	200	DURESS ALARM	
	SPARE	0	20 / 1	39 B 40	20 / 1	0	SPARE	
	SPARE	0	20 / 1	41 A 42	20 / 1	0	SPARE	

PANEL LOADING SUMMARY

LOAD TYPE	PH A	PH B	TOTAL
INCANDESCENT	0.0	0.0	0.0 KVA
INDUCTIVE LTG	0.0	0.0	0.0 KVA
RECEPTACLES	10.0	10.2	20.2 KVA
MOTORS	0.0	0.0	0.0 KVA
APPLIANCES	0.8	0.8	1.6 KVA
HEAT	0.0	0.0	0.0 KVA
COMPUTER	0.0	0.0	0.0 KVA
OTHER	0.2	0.0	0.2 KVA
NONCOINCIDENT	0.0	0.0	0.0 KVA
PEAK LOAD	0.0	0.0	0.0 KVA
TOTAL	11.0	11.0	22.0 KVA

PHASE BALANCE (%)

A-B	PF
100	94

MIN PANEL AMPACITY

70

AMPERES

NEC DEMAND LOAD SUMMARY

LOAD TYPE	KW	POWER FACT	KVA	DEMAND CALCULATED FACTOR	LOAD
INCANDESCENT	0.0	@ 100%	-	0.0 @ 125%	- 0.0 KVA
INDUCTIVE LTG	0.0	@ 95%	-	0.0 @ 125%	- 0.0 KVA
RECEPTACLES	9.5	@ 95%	=	10.0 @ 100%	= 10.0 KVA
FIRST 10 KVA					
REMAINDER	9.7	@ 95%	-	10.2 @ 50%	= 5.1 KVA
MOTORS					
LARGEST	0.0	@ 80%	=	0.0 @ 125%	= 0.0 KVA
REMAINDER	0.0	@ 80%	=	0.0 @ 100%	= 0.0 KVA
APPLIANCES	1.3	@ 80%	=	1.6 @ 100%	= 1.6 KVA
HEAT	0.0	@ 100%	=	0.0 @ 125%	= 0.0 KVA
COMPUTER	0.0	@ 95%	=	0.0 @ 100%	= 0.0 KVA
OTHER	0.2	@ 85%	=	0.2 @ 100%	= 0.2 KVA
NONCOINCIDENT	0.0	@ 95%	=	0.0 @ 0%	= - KVA
PEAK LOAD	0.0	@ 90%	=	0.0 @ 125%	= 0.0 KVA
0 % SPARE	0.0	@ 90%	-	0.0 @ 100%	- 0.0 KVA
TOTAL	20.7	KW		22.0	KVA

16.9

KVA

Version 1217

PROVIDE A 60 CIRCUIT PANEL WITH 20A/1P BREAKERS FOR ALL SPARE BREAKERS.

LUMINAIRE SCHEDULE										Version 1102
KEY	LED SOURCE TYPE	DESCRIPTION	FINISH	MOUNTING	DIMMING	SPECIFICATION				NOTES
						MANUFACTURER	CATALOG NUMBER	VOLTS	VA	
E1	475 LUMENS 3500K	EXTERIOR 2' LONG WALL MOUNTED LINEAR ADJUSTABLE LED DOWNLIGHT	TEXTURED NATURAL	WALL	0-10V	INSIGHT LIGHTING	MVMI-3-5-35K-100X100-SMS-24-120-DIM-TN-LV	120	7	
E2	6000 LUMENS 3000K	EXTERIOR PARKING LOT DOUBLE HEAD AREA LIGHT WITH TYPE III ON THE WEST SIDE OF POLE AND TYPE IV WIDE ON THE EAST SIDE OF POLE	PLATINUM SILVER	18' MH	0-10V	KIM LIGHTING	UR20-24L-25-3K8-3(WEST)-4W(EAST)-UNV-ASQ-PSS-AD-01	120	50	
E3	1500 LUMENS 3500K	EXTERIOR WALL MOUNTED LED SIGN LIGHT WITH 1' CANTILEVER ARM 4' LONG	CC - SILVER	CAVOFY	0-10V	INSIGHT LIGHTING	MVMI-3-5-35K-ASYD-EAS-12-48-120-DIM-CC(SILVER)-VS	120	14	
E4	1000 LUMENS 3500K	EXTERIOR LED WALL PACK WITH FULL C.J.T.OFF OPTICS	SILVER	WALL	0-10V	BEGA	24374-K35-SLV	120	12.3	
E5	6000 LUMENS 3000K	EXTERIOR PARKING LOT DOUBLE HEAD AREA LIGHT WITH TYPE IV DISTRIBUTION, 18' MOUNTING HEIGHT	PLATINUM SILVER	POST TOP 18' MH	0-10V	KIM LIGHTING	UR20-24L-25-3K8-4W UNV ASQ PSS AD 01	120	50	
E6	898 LUMENS 3000K	GROUND MOUNTED ADJUSTABLE SIGN LIGHT	STAINLESS STEEL	IN-GROUND	0-10V	ERCO	35289-023-33979-000	120	14	
E7	260 LUMENS/FT. 3500K	EXTERIOR SURFACE MOUNTED WALL GRAZER	BLACK	SURFACE	0-10V	LUMINII	KMWG-1-35K-HO-11-F-BK-PS010V-3X96-24-LOG	24	5.2 WFT	1.2
E8	3000 LUMENS 3000K	EXTERIOR PARKING LOT AREA LIGHT WITH TYPE III DISTRIBUTION 18' MOUNTING HEIGHT	PLATINUM SILVER	18' MH	0-10V	KIM LIGHTING	UR20-24L-25-3K8-3-UNV-ASQ-PSS-AD-01	120	25	
P1	6000 LUMENS 3500K	8' LONG SUSPENDED LINEAR LED DIRECT/INDIRECT	TITANIUM SILVER	PENDANT	0-10V	FOCAL POINT	FSM4BS-PJPD05-375DN-375UP-35K-1C-LD1-C24-TS-8'	120	25	
P1-S	4500 LUMENS 3500K	SAME AS P1 EXCEPT 6' LONG	TITANIUM SILVER	PENDANT	0-10V	FOCAL POINT	FSM4BS-PJPD05-375DN-375UP-35K-1C-LD1-C24-TS-6'	120	37.5	
P1	12000 LUMENS 3500K	SAME AS P1 EXCEPT 18' LONG	TITANIUM SILVER	PENDANT	0-10V	FOCAL POINT	FSM4BS-PJPD05-375DN-375UP-35K-1C-LD1-C24-TS-18'	120	100	
P2	560 LUMENS 3000K	DECORATIVE PENDANT AT RECEPTION DESK	WHITE & WHITE	PENDANT	ELV	ZANEEN	D9-1'67-WHITE TEXTURED LACQUER-WHITE TEXTURED LACQUER	120	48	
P3	6000 LUMENS 3500K	4x4' DIRECT/INDIRECT DECORATIVE PENDANT	P. SILVER	PENDANT	0-10V	FOCAL POINT	FNRP-44-FL50-8000L-35K-1C-UNV-L11-G-CLV96-PS	120	70.5	
R1	4500 LUMENS 3500K	RECESSED 2X2 LED SEMI-DECORATIVE TROFFER	WHITE	RECESSED 2.2"	0-10V	LITECONTROL	50L-G-D-22-OPN-C1-35K-D450-DS1-UNV	120	39	
R2	850 LUMENS 3500K	RECESSED LINEAR LED WALL WASH	MATTE CHROME	RECESSED 5.5"	0-10V	FOCAL POINT	FSM4AL-FL-275LF-35-1C-UNV-L11-TF-WH	120	14 W4 FT	
R3	1100 LUMENS 3500K	RECESSED 4" APERTURE LED DOWNLIGHT	MATTE CHROME	RECESSED 5.5/8"	0-10V	ALPHABET	NU4-RD-X7M19-13LM-35K-HE40-120-DIM10-NC-MC-MC	120	15	
R4	275 LUMENS / FT. 3500K	RECESSED LINEAR LED PERIMETER WALL SLOT	WHITE	RECESSED 7.375"	0-10V	FOCAL POINT	FSM4PR-A-H-FL2-275LF-30K-1C-UNV-LD1-XF-WH*	120	2.4 WFT	
R5	4000 LUMENS 3500K	RECESSED 2X4 LED SEMI-DECORATIVE TROFFER	WHITE	RECESSED 2.2"	0-10V	LITECONTROL	50L-G-D-22-OPN-C1-35K-D450-DS1-UNV	120	34	
R6	4000 LUMENS 3500K	RECESSED 4" APERTURE LED DOWNLIGHT WITH NARROW BEAM	CLEAR ALZAK	RECESSED 7.35"	0-10V	PRESCOLITE	LTR-4RD-HL-40L-DM1_LTR-HL-35K-8-NRSS	120	52	
R7	625 LUMENS / FT. 3500K	RECESSED 6" WIDE x 20' LINEAR LENSED LED	WHITE	RECESSED	0-10V	FOCAL POINT	FSM6L-FL-625LF-35K-1C-UNV-LD1-WH-20'	120	150	
S1	5000 LUMENS 3500K	4' LONG SURFACE MOUNTED LED STRIP WITH DROPPED LENS	WHITE	SURFACE	0-10V	COLUMBA	LC-4-35ML-ED-U	120	42	
S2	700 LUMENS 3500K	SURFACE MOUNTED LED UNDERCABINET LIGHT, 24" LONG	WHITE	SURFACE	NONE	BRUCK LIGHTING	650-24-35K-95-120-WH	120	13.4	
T1	-	LINE VOLTAGE, SURFACE MOUNTED TRACK	WHITE	CEILING	NONE	BRUCK LIGHTING	LINE VOLTAGE, SINGLE CIRCUIT ECO TRACK SERIES, WHITE	120	-	
T2	-	LED TRACK HEAD WITH ADJUSTABLE BEAM SPREAD	WHITE	TRACK	ELV	BRUCK LIGHTING	360430-27LM-35K-90-120-ELV-WH-ECOWH	120	19	
X1	AS SUPPLIED	UNIVERSAL MOUNT, SINGLE FACE, EDGE LIT LED EXIT WITH GREEN LETTERING AND BATTERY BACKUP	ALUMINUM	SEE PLANS	-	HE WILLIAMS	EXIT/EL-SF-G-CP-AN-EM-D	120	5	
X2	AS SUPPLIED	UNIVERSAL MOUNT, DOUBLE FACE, EDGE LIT LED EXIT WITH GREEN LETTERING AND BATTERY BACKUP	ALUMINUM	SEE PLANS	-	HE WILLIAMS	EXIT/EL-DF-G-MP-AN-EM-D	120	5	

GENERAL NOTES

- (1) FIXTURE SHOWN WITH SOLID SHADING SHALL HAVE INTEGRAL BATTERY BACKUP UNLESS OTHERWISE NOTED
- (2) COORDINATE THE VOLTAGE AND MOUNTING CONFIGURATION WITH THE PLANS.
- (3) FINAL COLOR SELECTION TO BE MADE BY ARCHITECT FROM MANUFACTURER'S STANDARD FINISHES. SUBMIT SAMPLES TO ARCHITECT FOR REVIEW.

LUMINAIRE SCHEDULE NOTES:

1. PROVIDE LENGTHS SHOWN ON PLAN.
2. REMOTED DRIVER REQUIRED.



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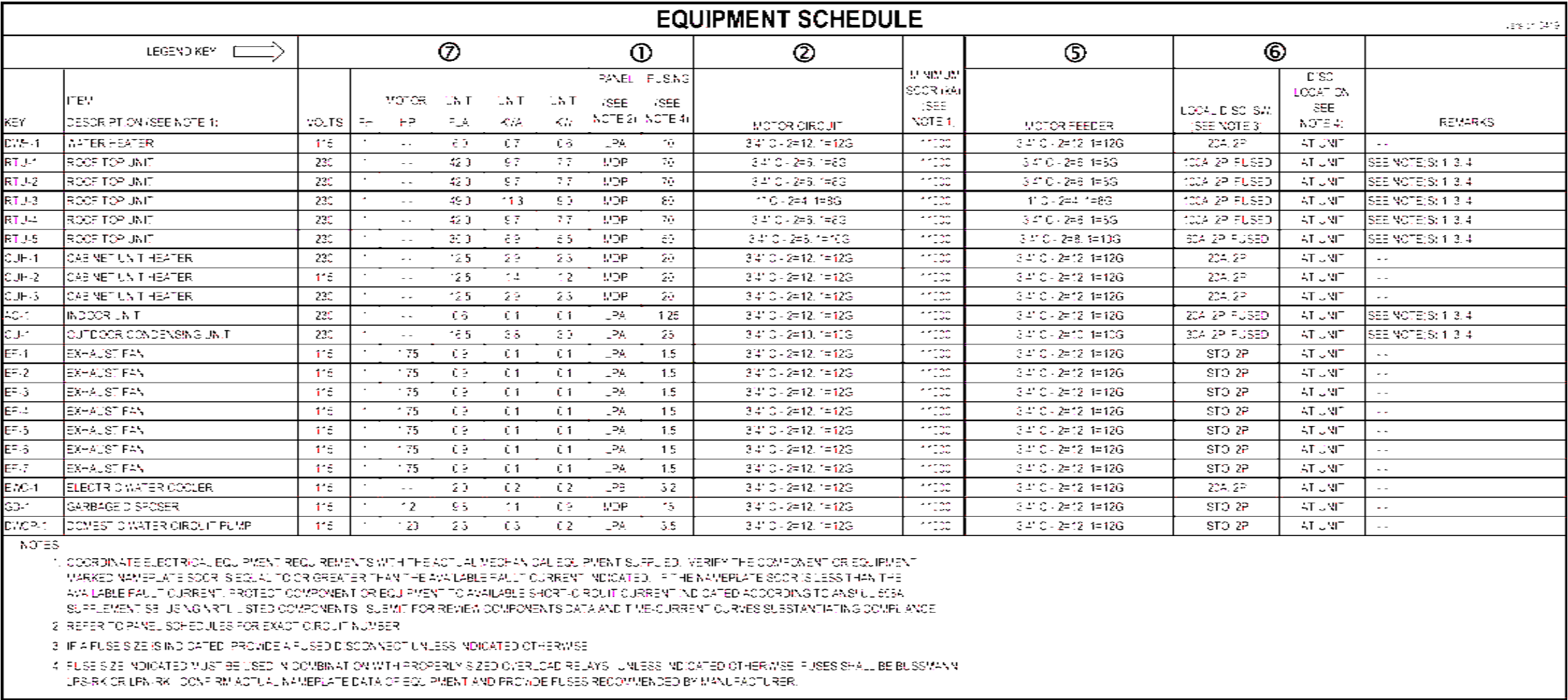
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DATE 07/09/2020	SHEET 109 OF 119



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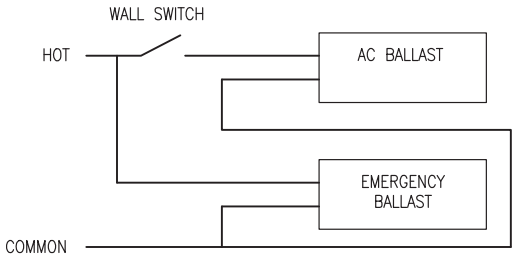
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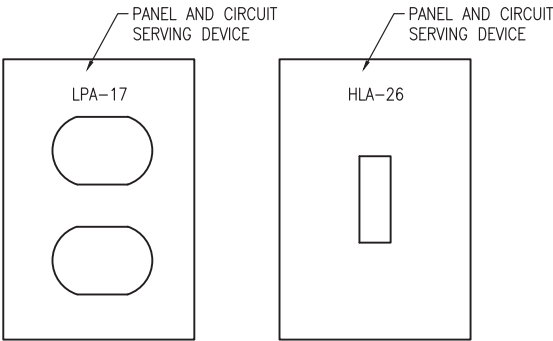
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DETAILS**

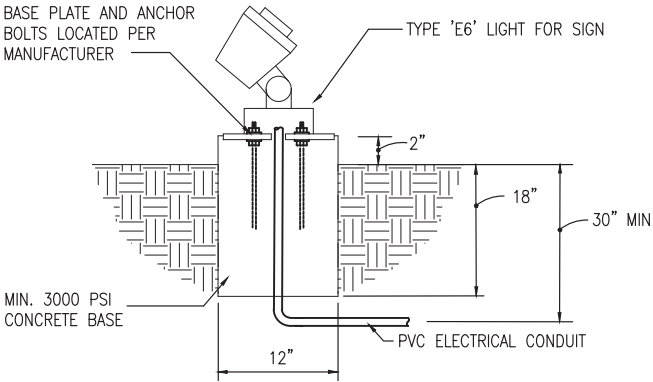
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DESIGNER K. CREMONA	SUB SHEET NO.
CHECKED M. BILLINGTON	E304
DATE 07/09/2020	SHEET 112 OF 119



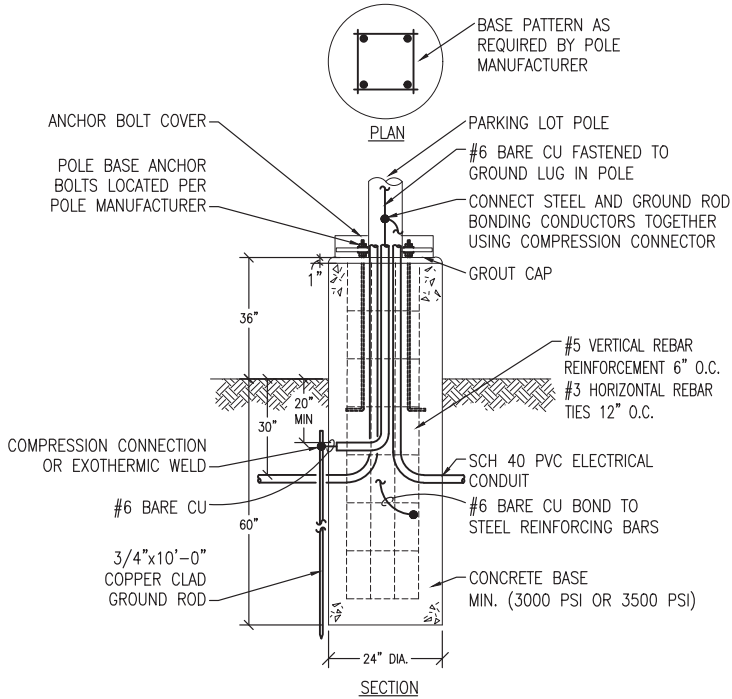
1
E304
EMERGENCY BALLAST WIRING DIAGRAM
SCALE: NONE



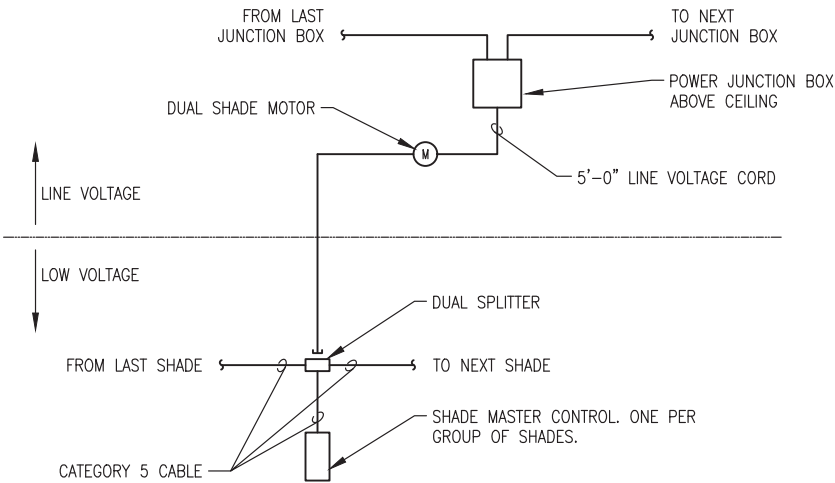
2
E304
DEVICE LABELING DETAIL
SCALE: NONE
NOTE: LABEL WITH BROTHER "P-TOUCH" SYSTEM OR APPROVED EQUAL. PROVIDE CLEAR OR WHITE TAPE WITH BLACK LETTERING.



3
E304
TYPE 'E6' SIGN LIGHT DETAIL
SCALE: NONE




4
E304
PARKING LOT POLE BASE DETAIL
SCALE: NONE





5
E304
MOTORIZED SHADE WIRING DETAIL
SCALE: NONE


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SYMBOL LEGEND:


- 


CAT 6 DATA (WALL)
- 


WIRELESS ACCESS POINT
- 

UNDER FLOOR CONDUIT PATHWAY
- 

CAT 6 DATA (FLOOR)
- 

J-BOX (WALL)
- 

J-BOX (FLOOR)
- 

J-BOX (CEILING)
- 

STROBE LIGHT

ABBREVIATIONS LEGEND:

- A.F.F.

ABOVE FINISH FLOOR
- EC

ELECTRICAL CONTRACTOR
- N.T.S.

NOT TO SCALE
- SCC

STRUCTURED CABLING CONTRACTOR
- TMGB

TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
- TGB

TELECOMMUNICATIONS GROUNDING BUSBAR

STRUCTURED CABLING NOTES:

1.

NUMBER NEXT TO DATA OR DATA/VOICE DEVICE INDICATES QUANTITY OF CABLES TO INSTALL.
2.

STRUCTURED CABLE CONTRACTOR TO FURNISH ALL MATERIALS AND INSTALLATION LABOR TO COMPLETE A FULLY FUNCTIONAL STRUCTURED CABLING SYSTEM INCLUDING, BUT NOT LIMITED TO: HORIZONTAL AND BACKBONE COPPER CABLE, JACKS, ADAPTERS, FACEPLATES, COPPER PATCH PANELS, COPPER TERMINATION BLOCKS, FIBER OPTIC CABLE, FIBER INNERDUCT, FIBER TERMINATION HARDWARE, FIBER CONNECTORS, VERTICAL AND HORIZONTAL CABLE MANAGEMENT, EQUIPMENT RACKS, CABLE TRAYS AND MOUNTING HARDWARE, CABLE SUPPORT HARDWARE, COPPER AND FIBER PATCH CORDS, LABELS, GROUNDING AND BONDING, TESTING AND CERTIFICATION.
3.

UNLESS OTHERWISE NOTED, PROVIDE 6"-12" CABLE SLACK AT THE TELECOMMUNICATIONS OUTLET AND 10' CABLE SLACK AT THE TR. NEATLY MANAGE CABLE SLACK AT THE TR TO PERMIT RELOCATION OF EQUIPMENT RACKS.
4.


FURNISH AND INSTALL ALL CONDUIT, CONDUIT SLEEVES, CORES, J-BOXES, PULL BOXES, AND OUTLET BOXES IN WALLS, FLOORS AND CEILINGS FOR SCC INSTALLED CABLING. PROVIDE BUSHINGS ON ALL CONDUIT AND CONDUIT SLEEVE ENDS. PROVIDE PULL STRINGS IN ALL CONDUITS.
5.

TELECOMMUNICATION CONDUIT ROUTES AND LOCATIONS SHOWN ARE APPROXIMATE. INSTALL CONDUITS WITH A MAXIMUM OF TWO 90-DEGREE BENDS BETWEEN PULL POINTS. LOCATE PULL BOXES IN ACCESSIBLE AREAS.
6.

UNLESS OTHERWISE NOTED THE STRUCTURED CABLE CONTRACTOR SHALL INSTALL APPROVED FIRE STOPPING MATERIALS IN ALL CONDUITS AND CONDUIT SLEEVES USED FOR COMMUNICATIONS AND/OR OTHER LOW-VOLTAGE CABLE INSTALLED BY THE SCC.
7.

EC TO PROVIDE A TELECOMMUNICATIONS GROUNDING SYSTEM IN ALL TELECOMMUNICATIONS ROOMS. SYSTEM TO CONSIST OF A TELECOMMUNICATIONS MAIN GROUNDING BUSBAR (TMGB) LOCATED IN THE ENTRANCE FACILITY AND A TELECOMMUNICATIONS GROUNDING BUSBAR (TGB) IN ALL TRS. THE TMGB/TGB SHALL BE CONNECTED TO THE BUILDING GROUNDING ELECTRODE AT THE CLOSEST PRACTICABLE POINT. REFER TO ANSI/TIA 607-B FOR FURTHER INFORMATION.
8.

UNLESS OTHERWISE NOTED THE SCC SHALL BE CERTIFIED BY THE MANUFACTURER TO INSTALL THE STRUCTURED CABLING SYSTEM AND PROVIDE TO THE CONTRACTING OFFICER A SYSTEM PERFORMANCE WARRANTY WITH A TERM OF NO LESS THAN 20 YEARS.







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2 CONDUIT FROM IT TO WAREHOUSE TO INCLUDE 6 PAIR COPPER CABLE FOR TELEPHONY.



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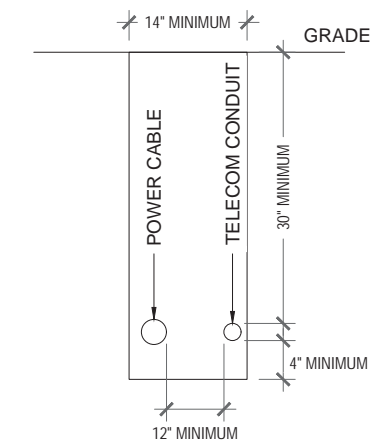
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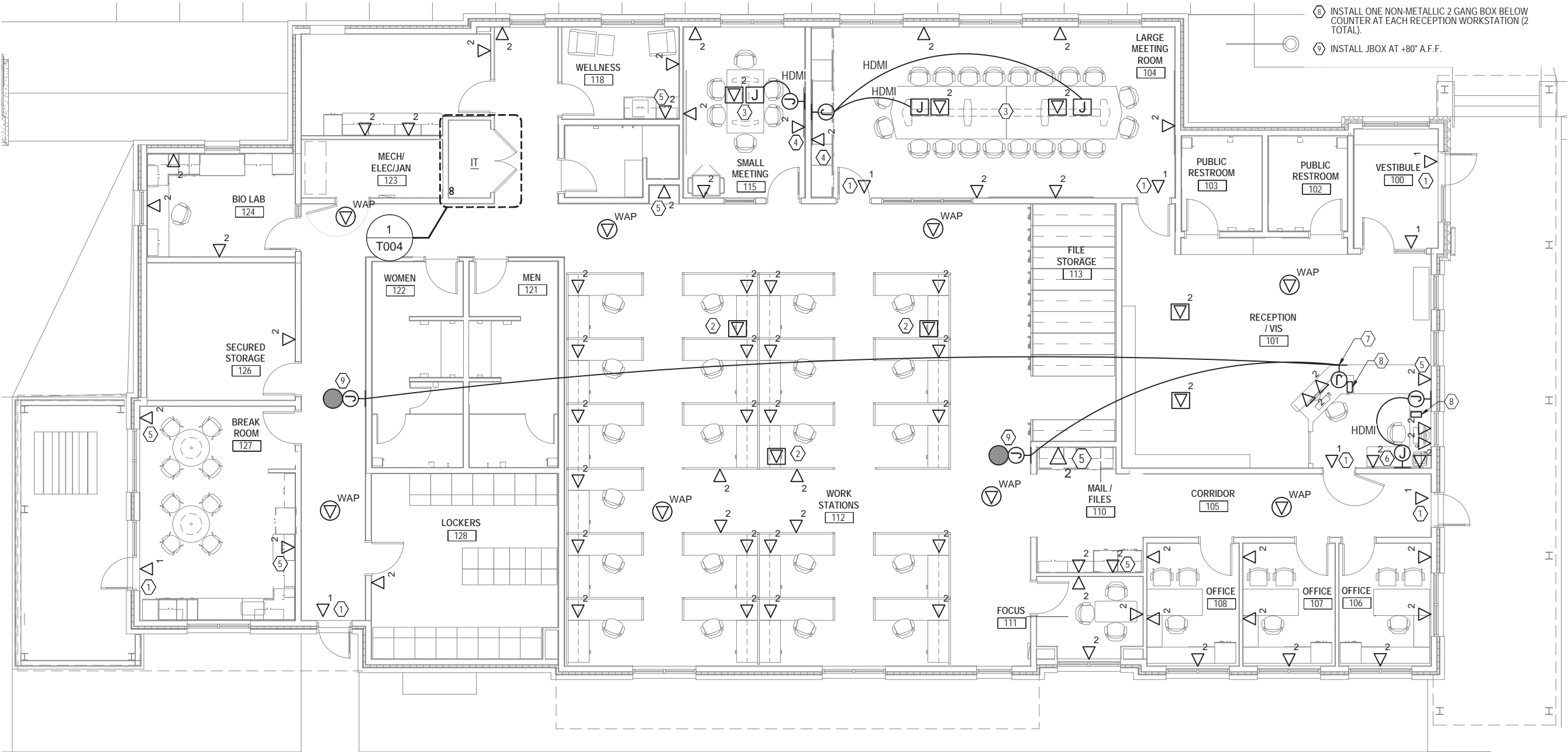
TECHNOLOGY SITE PLAN

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1 JOINT TRENCHING EXAMPLE

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IT FLOOR PLAN
SCALE: 3/16"=1'-0"

GENERAL NOTES:

1. ALL WALL OR BELOW COUNTER DATA JACKS SHALL BE SAME HEIGHT AS CONVENIENCE OUTLET.
2. ALL ABOVE COUNTERTOP DATA JACKS IN RECEPTION AND PRINTER AREA ARE TO BE SAME HEIGHT AS CONVENIENCE OUTLET.

KEYED NOTES:

- ① THESE CAT 6 DROPS ARE FOR FUTURE EXTERIOR DOOR ACCESS CONTROL. COIL CAT 6 CABLE IN 8"x8" BOX ABOVE DOORWAY. SEE 1/T007 FOR DETAILS.
- ② THIS IS UNDER FLOOR CAT 6 CABLE CONDUIT PATHWAY ONLY FOR SURROUNDING CUBICLES. SEE 1/T006 FOR DETAILS.
- ③ THIS IS UNDER FLOOR CAT 6 CABLE CONDUIT FOR CONFERENCE ROOM FLOOR BOX. SEE 2/T005 FOR DETAILS.
- ④ AT TV/MONITOR MOUNTING LOCATIONS IN MEETING ROOMS AND RECEPTION AREA, DATA AND HDMI CABLES ARE TO BE IN A RECESSED BOX ALLOWING FOR TV/MONITOR TO BE FLUSH MOUNTED AGAINST WALL. THE RECESSED BOX SHALL BE AT THE SAME HEIGHT AS THE CONVENIENCE OUTLET.
- ⑤ A.C. (ABOVE COUNTER CAT6 DATA JACK. INSTALL AT SAME HEIGHT AS ABOVE COUNTER CONVENIENCE OUTLET.
- ⑥ TV MOUNTED ON THIS WALL. HDMI JUMPER ROUTED THROUGH CEILING CONDUIT TO WORKSTATION AS SHOWN. HDMI AND CAT6 IN RECESSED BOX (+72") AT SAME HEIGHT AS TV POWER OUTLET.
- ⑦ 18/2 WIRE FROM BELOW COUNTER TO STROBE LIGHT LOCATIONS.
- ⑧ INSTALL ONE NON-METALLIC 2 GANG BOX BELOW COUNTER AT EACH RECEPTION WORKSTATION (2 TOTAL).
- ⑨ INSTALL JBOX AT +80" A.F.F.



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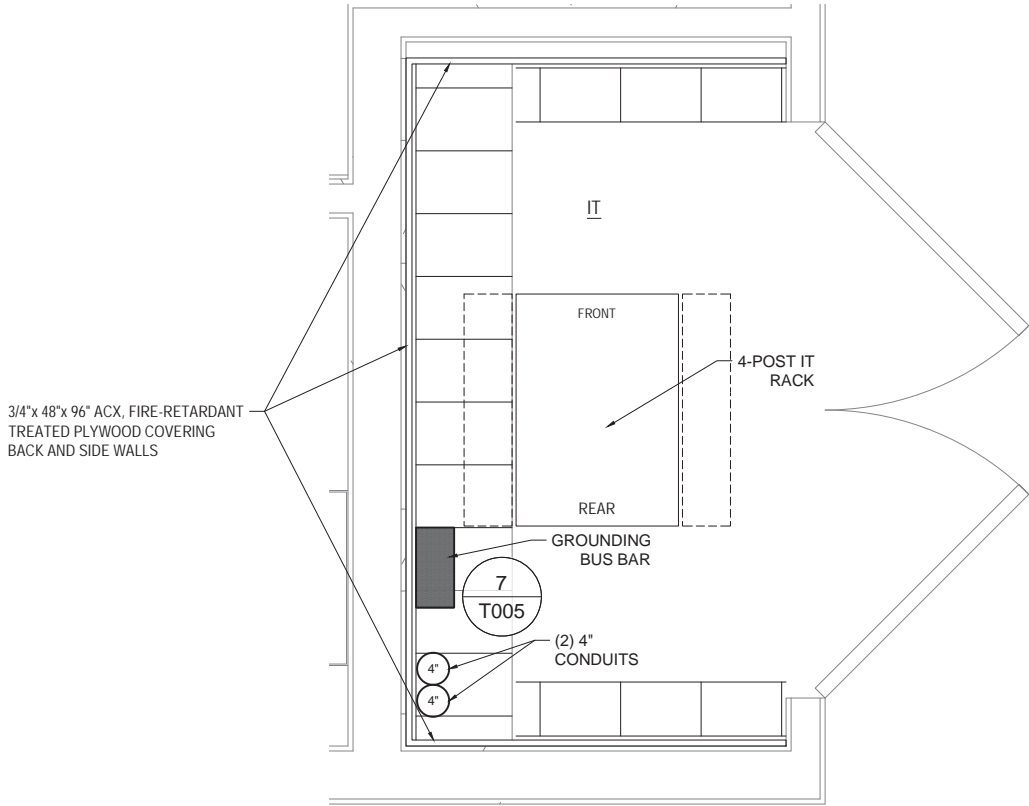
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**TECHNOLOGY
FLOOR PLAN**

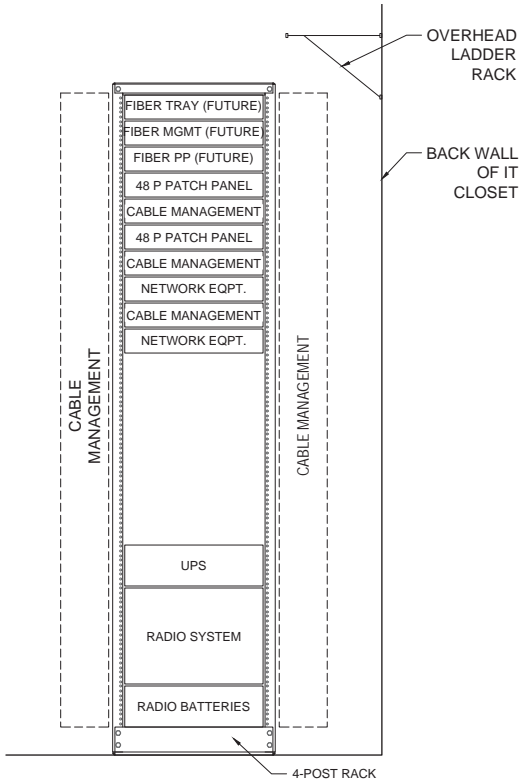
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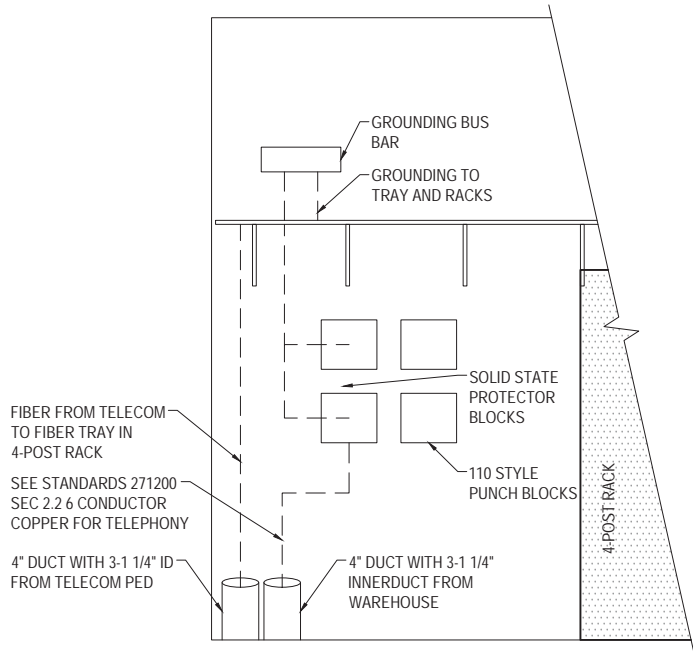
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1 IT ROOM DETAIL
SCALE: 1"=1'-0"



2 RACK ELEVATION
SCALE: 1"=1'-0"



3 IT ROOM WEST WALL DETAIL
SCALE: N.T.S.



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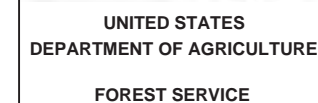
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IT ROOM DETAIL
AND ELEVATION**

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TECHNOLOGY
IT ROOM DETAILS

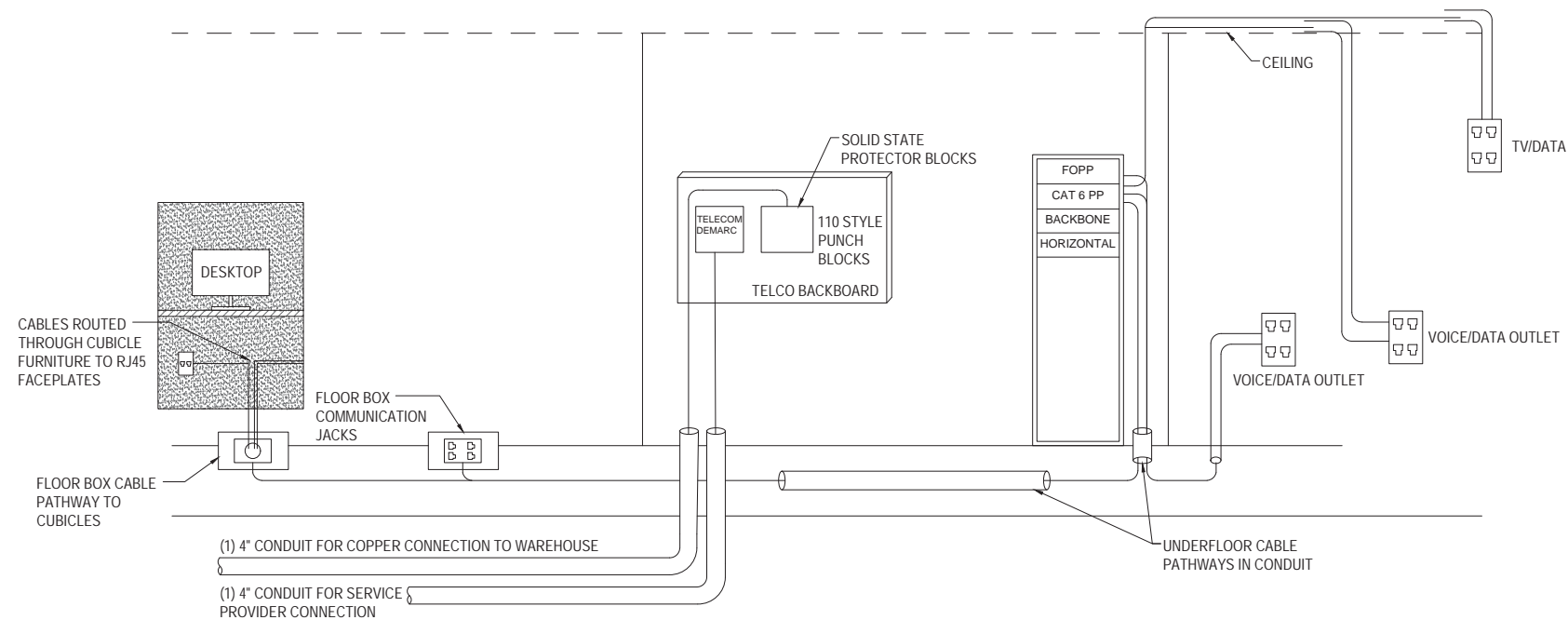
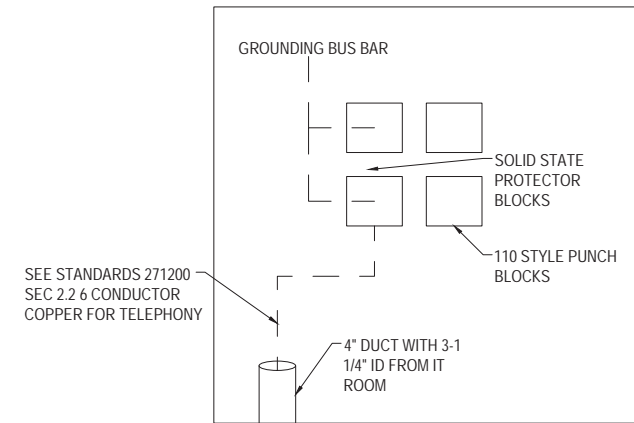
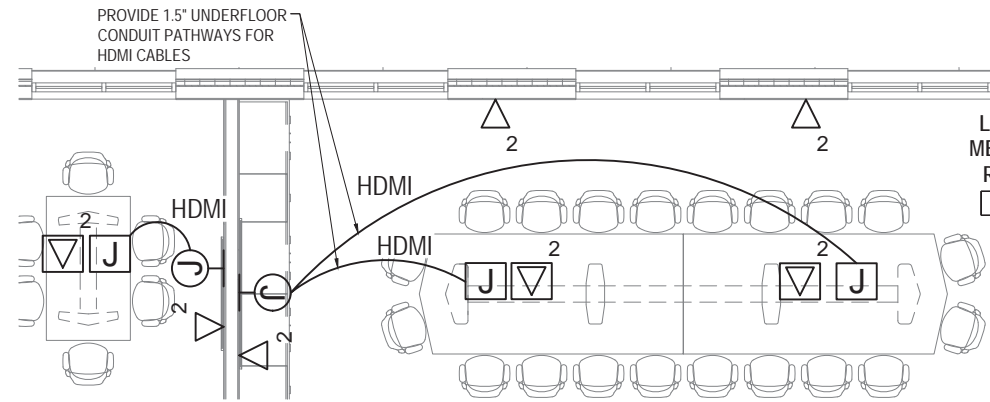
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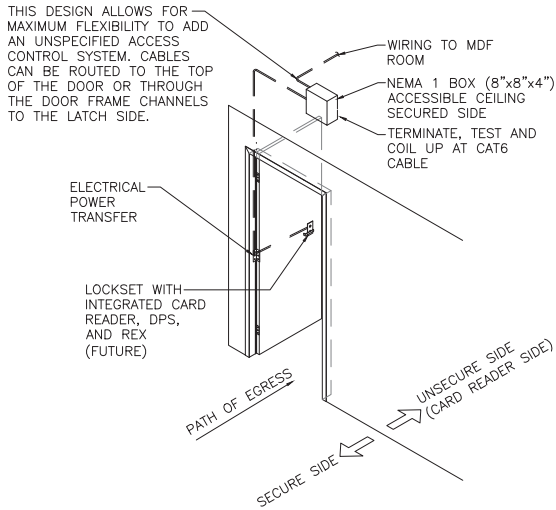
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TECHNOLOGY RISER DIAGRAM AND DETAIL

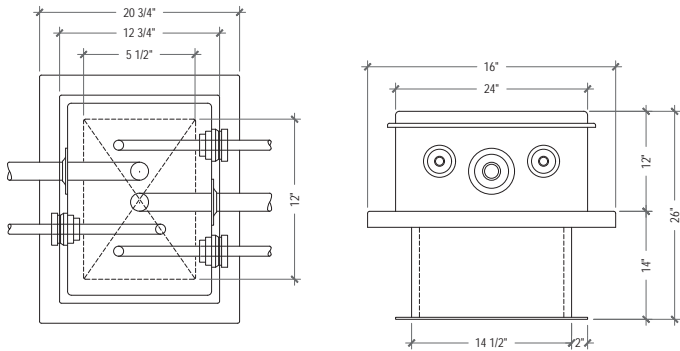
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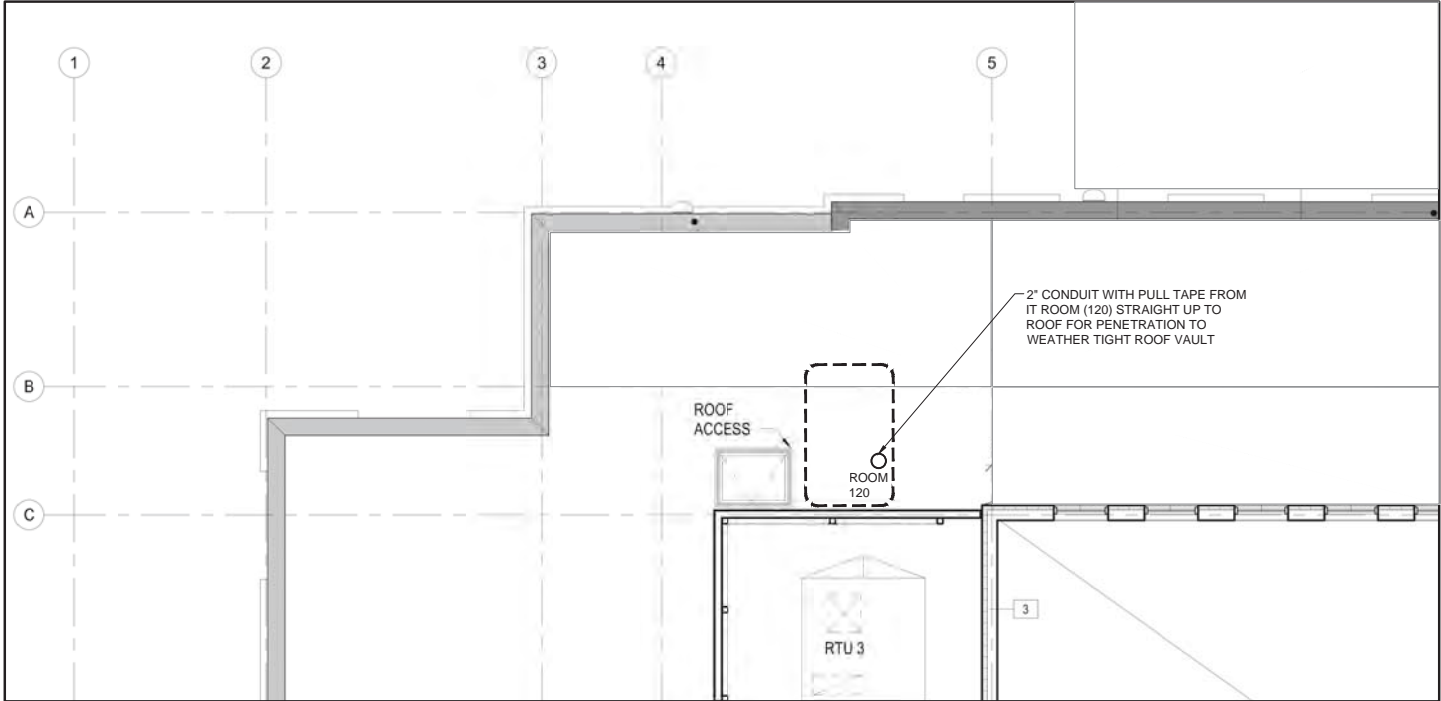
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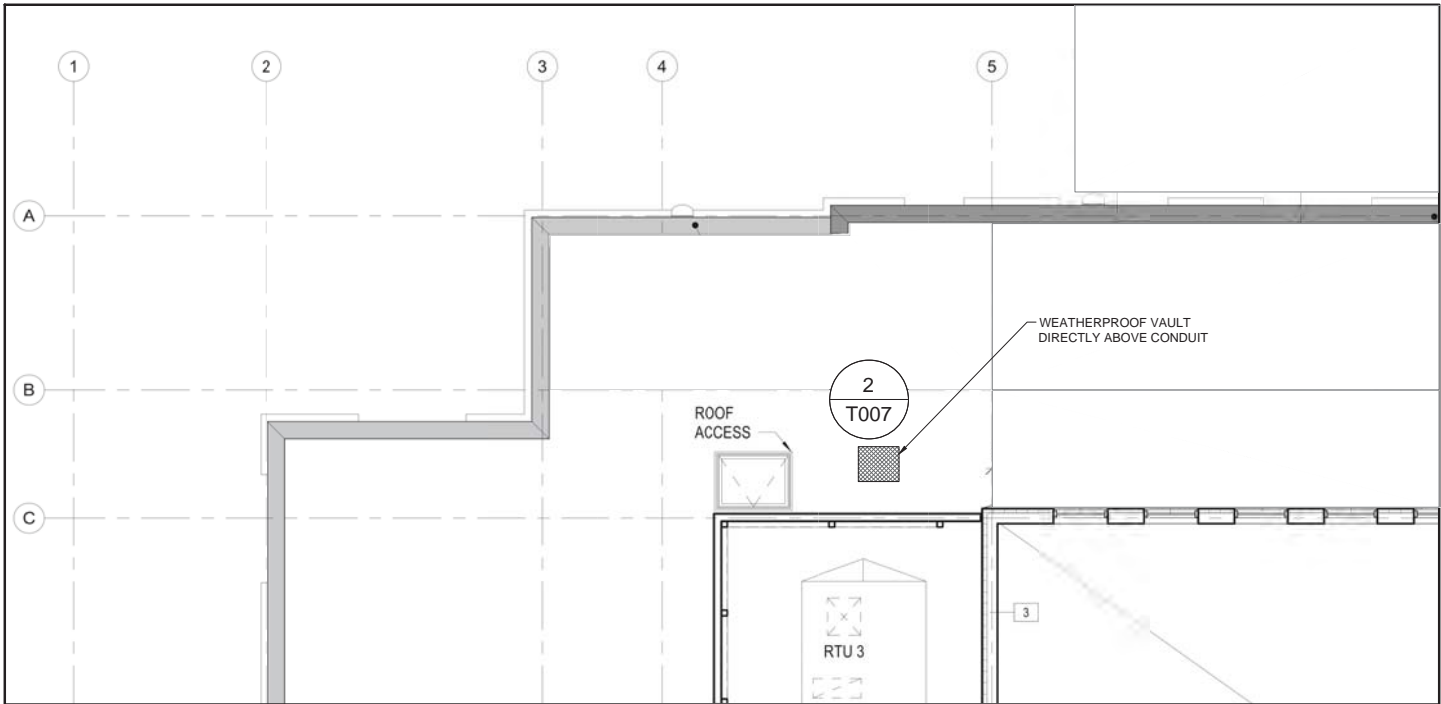
1 INTEGRATED LOCKSET DETAIL
SCALE: N.T.S.



2 WEATHERPROOF VAULT DETAIL
SCALE: N.T.S.



3 RADIO COAX CONDUIT TO ROOF DETAIL
SCALE: N.T.S.



4 WEATHERPROOF VAULT ON ROOF DETAIL
SCALE: N.T.S.



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