# State of Idaho
Department of Administration
Division of Public Works

**BRAD LITTLE**
Governor
**STEVEN BAILEY**
Director
**STEVE WALKER**
Interim Administrator

502 North 4th Street
Boise, ID 83720-0072
Telephone (208) 332-1900
www.dpw.idaho.gov


November 24, 2025

**REQUEST FOR QUALIFICATIONS (RFQ)**

TO: Design-Build Teams

FROM: Steve Walker, Interim Administrator
Division of Public Works

SUBJECT: DPW PROJECT NO. 26501
Mica Supervisory Area Office HVAC System Replacement
Idaho Department of Lands (IDL)
3258 W. Industrial Loop
Coeur d'Alene, ID 83815

RFQ submittal packages will be received at the Division of Public Work's (DPW) remote office, located at **1202 N. Fifth Ave., Sandpoint, ID 83864-1503, by 2:00 p.m., Pacific Daylight time Zone, on Thursday, December 18, 2025**, for furnishing Design-Build services to the State of Idaho.

An informational meeting will be held on Friday, December 5, 2025 at 11:00 am at the project location, 3258 W. Industrial Loop, Coeur d'Alene, ID 83815.

All questions must be sent to the DPW Project Manager, Sydnee Weersing, no later than December 9, 2025. Questions will be responded to in an addenda, no later than seven calendar days prior to the RFQ submittal due date. Modifications (addenda) to this RFQ, if any, will be posted on the Division of Public Works web page at https://dpw.idaho.gov/professional-services/. It is recommended that responders to this RFQ check this page prior to making their submittal.

Sydnee Weersing, Project Manager
Division of Public Works
1202 N. Fifth Ave.
Sandpoint, ID 83864-1503
(208) 867-2930
Sydnee.weersing@adm.idaho.gov

## DESCRIPTION OF PROJECT

The Idaho Department of Lands, Mica Supervisory Area's regional facility, located in Coeur d'Alene, Idaho, has been experiencing multiple failures with the mechanical systems in their administrative office.

The administrative office (approximately 26,540 s.f.) is comprised of two wings that are connected by a central corridor. The original wing was built in 1998 (approximately 13,726 s.f.) with a VAV mechanical system, and the addition wing was built in 2019 (approximately 12,814 s.f.) with a VRF mechanical system. Both systems have had ongoing issues.

The scope of this project will include investigations of the existing systems, and design and construction for either repairing or replacing the mechanical systems to provide fully functional systems to the office.

**Attachments to this RFQ include:**

Exhibit A: Drawings from original building 1998
Exhibit B: Drawings from building addition 2019
Exhibit C: Johnson Borrow Report from 11/3/2025 on mechanical system failures in 2019 wing

## REQUIRED SERVICES

The State of Idaho, through the Division of Public Works, is requesting proposals for Design-Build services for DPW #26501:IDL_ Mica Supervisory Area Office HVAC System Replacement. A total project budget has been established at $1,295,000 to include the following: existing system commissioning and functionality testing, architectural and engineering fees, consulting fees, testing fees, necessary permits, all construction cost, TAB, commissioning, reimbursable cost, contingencies, and any other project related expenses.

All members of the Design-Build Team (Architect, Engineers, Consultants, and General contractor and Subcontractors) shall be licensed to work in the State of Idaho for their specific disciplines at the time of the submittal. The Team shall be familiar with all Idaho state statutes, and Idaho codes.

The construction documents are to be completed within 3 months of the contract award. Bi-monthly design meetings will be required to meet with the Design-Build team, DPW Project Manager and IDL staff, for the purpose of providing a verbal report regarding the previous two week's progress and anticipated activities for the next two weeks. The Design-Build Team will advise the group on projected project cost, related value engineering if needed, and critical path schedules.

The Design-Build Team must keep in mind that during all phases, code compliance, energy efficiency, sustainability measures and building maintenance concerns shall be incorporated into the project.

**The Design-Builder's scope of work will include, at a minimum:**

1. Pre-construction project planning including: existing system commissioning and functionality testing, the preparation of a schedule, preliminary cost estimate and value engineering measures.

2. Preparation of construction documents including architectural, mechanical, plumbing and electrical plans and specifications based on owner's criteria, to be reviewed by the Agency, DPW,

and all authorities having jurisdiction, including but not limited to, the State of Idaho Division of Building Safety and Office of the State Fire Marshal. The final plans should at a minimum include: a code study addressing penetration of fire rated walls; plan configuration; dimensions; details including mechanical, electrical, and plumbing design to include all fixtures, systems, equipment, required calculations, energy and performance data, systems review, coordination and integration into all utilities and controls.

3. The Design-Build Team will be required to upload all documents to DPW's Owner's web-based project management system, Projectmates. Documents may include, but are not limited to meeting minutes, sketches, diagrams, existing system analysis, design phase submittals including drawings and project manuals, photographs relevant to the project, construction submittals, field reports, schedules, cost estimates, ASI's, RFI's, close out documents, warranties, etc.

4. A compete construction schedule and cost estimate will be required following the Design Phase for final Owner approval prior to proceeding to the Construction Phase. This estimate, when approved, will become the Guaranteed Max Price (GMP) of the construction contract.

5. Develop all necessary materials and make a minimum of one (1) presentation to the Permanent Building Fund Advisory Council (PBFAC).

6. Securing all building and trade permits for construction through the State of Idaho Division of Building Safety.

7. Construction and construction administration by the Builder as well as the Architect/Engineers of Record. Construction administration will also include conferences, weekly site observations and progress meetings with the Agency and DPW.

8. All work shall be in accordance with currently adopted building, fire, accessibility, and energy codes.

9. Development and refinement of cost estimates and project schedules throughout the design phase.

10. Project Closeout, establishment of warranties, guarantees and owner training.

**QUALIFICATION STATEMENT CONTENT**

**A. Basic Qualifications:** *Maximum four (4) pages; twenty (20) points*

**1.** Provide basic data related to the Design-Build Team's companies/firms, including the General contractor, the Architect-of-record, and the Plumbing, Mechanical, and Electrical Engineers of record.

a. Provide company's age, size, location, and general information.
b. Provide number of personnel and resources available to meet the project schedule.

**B. Specific Team Member Qualifications:** *Maximum eight (8) pages; twenty-two (22) points*

1. Provide a **one-page** resume with specific qualifications for each team member expected to accomplish the work (points allocated below). Each resume should include the individual's education, training, certifications, or other qualifications which show the person's ability to complete projects of this scope and/or type. Were applicable provide Idaho license type and number. Provide up to 5 examples of similar work completed in the past ten years. Include the location, and the current phase of design or construction.

    a. Design-Builder/General Contractor (Project Manager, Superintendent, etc): *Maximum five (10) points*
    b. Architect of Record: *Maximum two (3) points*
    c. Mechanical Engineer: *Maximum two (3) points*
    d. Plumbing Engineering: *Maximum two (3) points*
    e. Electrical and Low Voltage Engineering: *Maximum two (3) points*

**C. Project Approach:** *Maximum four (4) pages; twenty-six (26) points*

1. Describe the Team's approach for assessing the existing mechanical systems and designing a solution for this project, including the concepts below. Give examples where appropriate. *Maximum nine (9) points*

    a. Understanding of the existing mechanical systems and current failures.
    b. Possible design and construction challenges that the Team foresees.
    c. Design opportunities and/or concepts that the Team may explore.

2. Describe the Team's management approach for this project, including the concepts below. Give examples where appropriate. *Maximum nine (9) points*

    a. Quality control of construction documents.
    b. Document coordination between consultants.
    c. Process and tools for creating and managing the schedule.
    d. Process and tools for creating and managing the construction cost estimate within budget.
    e. Methods for managing Owner/Agency expectations.
    f. Methods for gathering stakeholder's input and acceptance.
    g. Relationships and interactions with local utility companies and authorities having jurisdiction.

3. Describe the Team's approach to construction administration, including the concepts below. Give examples where appropriate. *Maximum eight (8) points*

    a. Hierarchy and turnaround time for information distribution (i.e. meeting agendas. and minutes, submittals, RFIs, PRs, change orders, etc.)
    b. Process for monitoring the construction schedule.
    c. Expectations for Architect, Plumbing, Mechanical, and Electrical Engineer's involvement during CA.
    d. Problem solving skills for unforeseen conditions.
    e. Experience with Owner's web based project management system, Projectmates.

**D. Format:** *Maximum two (2) points*

1. To assist reviewers in their evaluation of submittals, it is preferable for submittals to follow the format of the headings (A-C) listed above. Proposals should be clear and concise. Emphasis should be placed on specific qualifications of the people who will actually perform the work.

2. All content should be contained in the submittal. No external means of information (i.e. brochures or QR codes) will be considered.

3. Submittals must include the name of the team's primary contact, phone number, and email address on the cover letter. **Failure to provide this information may result in the proposal being nonresponsive.**

**SUBMITTAL**

Submit five (5) copies of the submittal; include one USB drive containing a PDF of the submittal.

**EVALUATION, FINAL RANKING, INTERVIEW PROCESS**

A selection committee consisting of two (2) representatives from DPW, two (2) representatives from Department of Lands, and an independent Design Builder will evaluate and rank the firms deemed to be the most highly qualified to perform the required services.

The ranking process is accomplished in two steps: 70 points for the Initial Ranking based on the written submittal, and 30 points for a Final Ranking based on an interview. The selection committee will score the written submittals based on the criteria in the Qualification Statement Content and up to three (3) teams will be invited for an interview. The scores will be based on the tables below.

| **Initial Ranking, Written Point Scoring** | | |
|---|---|---|
| | Criteria | Maximum Possible Points |
| A | Basic Qualifications | 20 |
| B | Team Member Qualifications | 22 |
| C | Approach to Project | 26 |
| D | Format | 2 |
| | | |
| Written Total | | 70 |
| | | |
| **Presentation/Interview Point Scoring** | | |
| Criteria | | Maximum Possible Points |
| Competency and ability to address the items that will be provided to the final ranked teams | | 15 |
| Selection Committee's Q & A | | 15 |
| | | |
| Presentation/Interview Total | | 30 |

The timeframe for the teams invited for an interview is approximately one hour: 25-30 minutes for the presentation; 15-20 minutes for the selection committee's Q&A; and 5-10 minutes for the Design Professional team's closing comments.

After interviewing the selected teams, the selection committee will rank the interviews to determine the remaining 30% score.

**AWARD**

Based on the results of the Statement of Qualifications and Interviews, DPW will recommend a course of action to the Permanent Building Fund Advisory Council (PBFAC) at their next regularly scheduled meeting following interviews. If the PBFAC recommends the selection, DPW will issue a notice of intent to negotiate a Design-Build Contract. However, final award is contingent upon the successful negotiation of an Agreement.

**PROPOSED SCHEDULE**:

| | |
|---|---|
| On-site Informational Meeting | December 5, 2025 |
| Receive RFQ Submittals | December 18, 2025 |
| Oral Interviews | December 30 , 2025 |
| PBFAC Selection Approval | January 6, 2025 |
| Negotiate Contract | January 2025 |
| Construction Starts | May 2025 |
| Construction Completion | TBD depending on equipment procurement |

**PROVISIONS:**

1. No firm or corporation shall offer to practice architecture, mechanical, electrical, or plumbing engineering within Idaho unless such offer specifically identifies an individual professional licensed under the provisions of the State of Idaho licensing board, Idaho Department of Occupational and Professional Licenses (DOPL), who will directly supervise the services identified in such offer.

2. The State reserves the right to approve the Design-Build Team's selection of Architects, Engineers, Consultants, and Subcontractors.

3. This project is State funded. The Division of Public Works (DPW) will administer the project according to the terms and conditions of the award, State laws and guidelines. The Design-Builder will receive general instructions through the State. Sydnee Weersing has been assigned to serve as DPW's project manager and liaison between the Department of Administration, the Agency, and the Design-Builder for this project.

4. The Design-Builder shall warrant the following: not knowingly hire or engage any illegal aliens or persons not authorized to work in the United States as required by Title 67, Chapter 79, Idaho Code. The Design-Builder shall take steps to verify that it does not hire or engage any illegal aliens or persons not authorized to work in the United States; and that any misrepresentation in this regard or any employment of persons not authorized to work in the United States constitutes a material breach and shall be cause for the imposition of monetary penalties and/or termination of any Contract resulting from this RFQ.

5. The Division of Public Works reserves the right to investigate and confirm the proposer's financial responsibility. This may include financial statements, bank references and interviews with past consultants, employees, and creditors. Unfavorable responses to these investigations are grounds for rejection of proposal.

6. The contents of the submittal may be used in a legal contract or agreement. Proposers should be aware that methods and procedures submitted could become contractual obligations. The successful Design-Builder will be required to sign an agreement including the State's standard terms, including a requirement to carry and maintain a minimum of $1,000,000 professional liability insurance coverage.

7. The State reserves the right to reject any or all proposals received for this RFQ.

8. The State may negotiate separately with any source in any manner necessary to serve the best interests of the State of Idaho. Awards will be made on the basis of submittals resulting from this request, subsequent interviews, and associated ranking criteria noted above.

**End 26501 Design Professional RFQ**

EXHIBIT "A"

# IDAHO DEPARTMENT OF LANDS OFFICE BUILDING

**DPW PROJECT-NO. 98-500**

## 3780 INDUSTRIAL AVENUE SOUTH
## COEUR D'ALENE IDAHO

### ARCHITECT

H2A ARCHITECTS, PA
420 INDIANA AVE. – SUITE 100
COEUR D'ALENE, IDAHO 83814
PHONE: (208) 667-3430
FAX: (208) 667-4693

### STRUCTURAL ENGINEER

ATWOOD-HINZMAN, INC.
E. 1819 SPRINGFIELD
SPOKANE, WASHINGTON 99202
PHONE: (509) 535-0138
FAX: (509) 535-7244

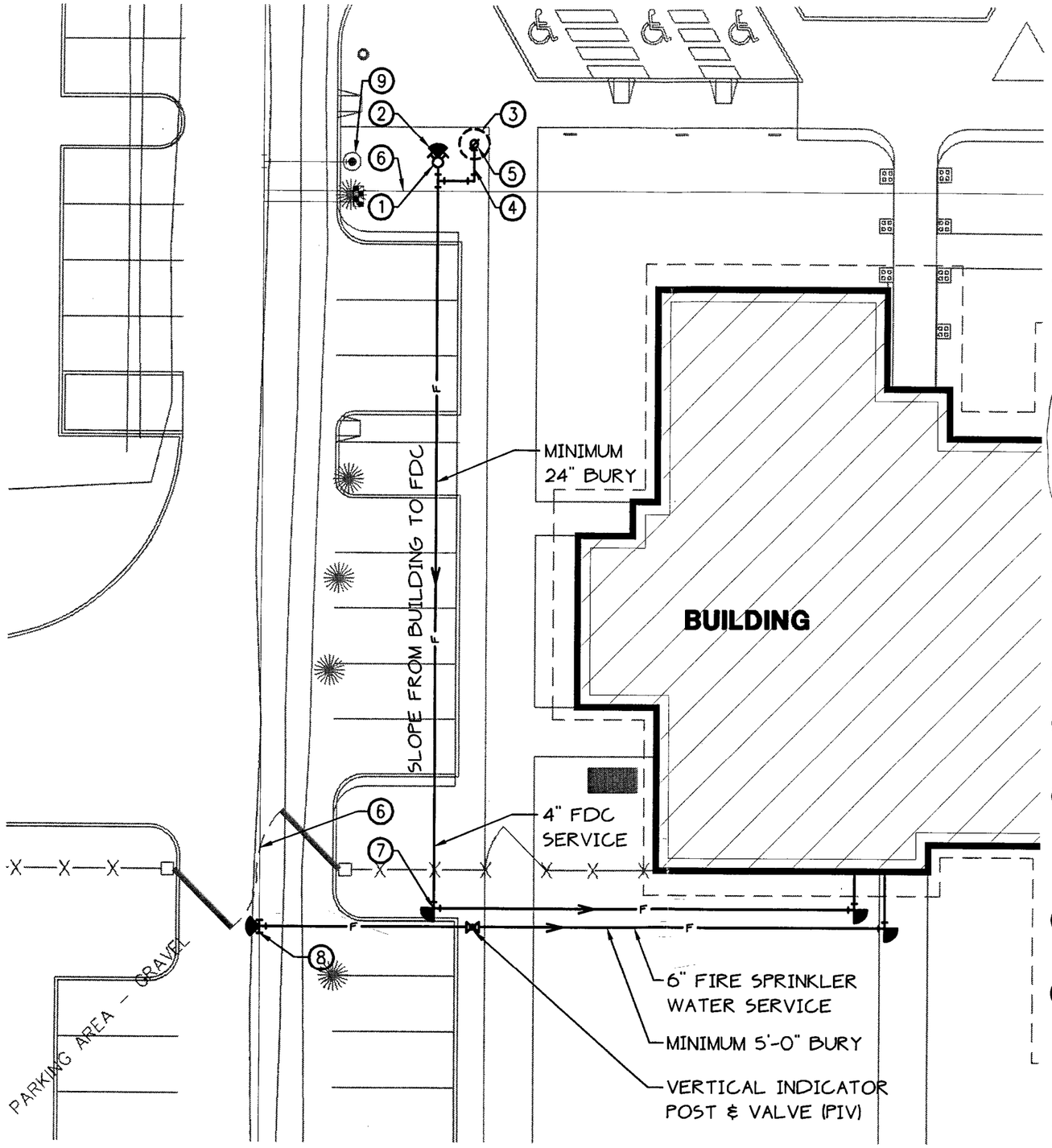
### MECH./ELECTRICAL ENGINEERS

MW CONSULTING ENGINEERS
NORTH 222 WALL STREET , SUITE 200
SPOKANE, WA. 99201-0877
PHONE: (509) 838-9020
FAX: (509) 838-1123

### LANDSCAPE ARCHITECT

RAMM ASSOCIATES
SOUTH 25 ALTAMONT
SPOKANE, WA. 99202
PHONE: (509) 534-8086
FAX: (509) 534-8159

SET NO. 27




KEY NOTES:

1. FIRE DEPARTMENT CONNECTION. INSTALL IN STRICT CONFORMANCE WITH CITY OF COEUR D'ALENE FIRE MARSHAL REQUIREMENTS.
2. THRUST BLOCK (TYP 5). PROVIDE IN STRICT CONFORMANCE WITH NFPA & LOCAL AUTHORITY HAVING JURISDICTION.
3. 600 GAL. TYPE "A" DRYWELL WITH SOLID CONCRETE COVER. TOP OF COVER MINIMUM 48" BURY. PROVIDE IN STRICT CONFORMANCE WITH CITY OF COEUR D'ALENE STANDARDS.
4. PIPE 3/4" LINE FROM LOW POINT OF FDC LINE TO TOP SIDE OF INSIDE OF DRYWELL.
5. 3/4" BALL DRIP LOCATED IN DRYWELL
6. 8" WATER MAIN (NOT IN DIV 15), SEE DRAWING C-100.
7. MECHANICAL JOINT (TYP) PROVIDE FOR 6" AND 4" FIRE MAINS IN CONFORMANCE WITH LOCAL AUTHORITY HAVING JURISDICTION.
8. CONNECT TO 8" WATER MAIN, SEE DRAWING C-100.
9. FIRE HYDRANT (NOT IN DIV 15), SEE DRAWING C-100.

# PARTIAL SITE PLAN - FIRE PROTECTION

SCALE: 1" = 20'-0"

XREF: Z-S

N

08-27-1998 M-1 Update-1 Rev-0 ronh XRefs: ..\97025\Z-S.DWG

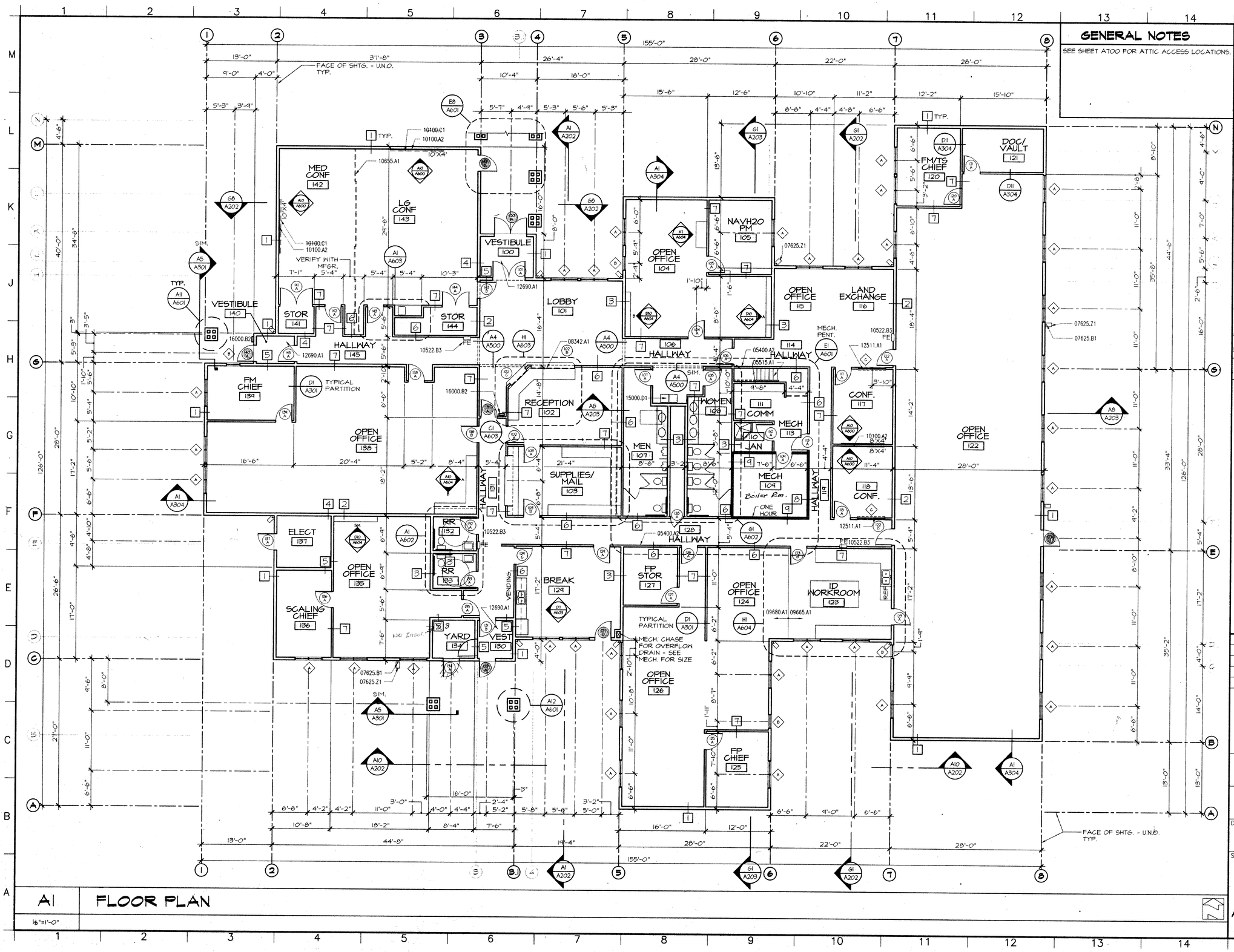
IDAHO DEPT OF LANDS OFFICE BLDG

PARTIAL SITE PLAN
- FIRE PROTECTION

DRAWN BY: RH | DATE: 8/27/98 | SCALE: 1" = 20'-0" | DRAWING # M-1 | REF DWG:

ADDENDUM #1, ATTACHMENT # M-1

MW Consulting Engineers
North 222 Wall Street, Suite 200
Spokane, WA 99201-0677
E-Mail: mweng@mt.attla.net
Telephone: 509.838.8669
FAX: 509.838.1123




## GENERAL NOTES

SEE SHEET A700 FOR ATTIC ACCESS LOCATIONS.

## MATERIAL KEYING LEGEND

DIV 04 MASONRY
04200.C1 4" CMU VENEER
04255.Z1 AIRSPACE

DIV 05 METALS
05400.A1 6" STEEL STUDS
05400.A2 3-1/2" STEEL STUDS
05515.A1 STEEL LADDER

DIV 06 WOOD AND PLASTICS
06100.N5 SHEATHING
06100.Z4 AIR INFILTRATION BARRIER

DIV 07 THERMAL & MOISTURE PROTECTION
07210.A1 BATT INSULATION
07210.N1 HIGH DENSITY BATT INSULATION
07210.B1 SOUND ATTENUATION BLANKETS
07210.F1 VAPOR RETARDER
07240.A1 E.I.F.S.
07460.B1 WOOD SIDING
07625.B1 DOWNSPOUT
07625.Z1 CONCRETE SPLASH BLOCK

DIV 08 DOORS AND WINDOWS
08342.A1 OVERHEAD COILING GRILLE

DIV 09 FINISHES
09260.A1 GYPSUM WALL BOARD
09260.E1 TYPE 'X' GYP. BD.
09260.E1 METAL STUDS
09260.Z2 VAPOR RETARDER
09665.A1 RESILIENT SHEET FLOORING
09680.A1 CARPET

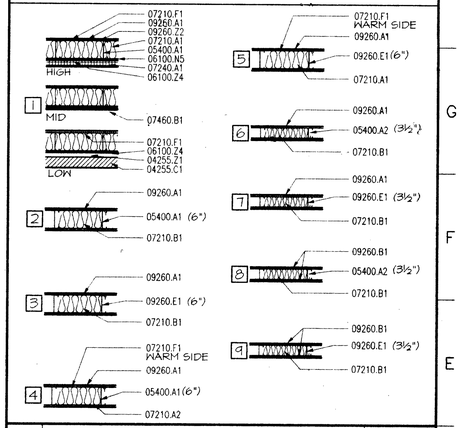
DIV 10 SPECIALTIES
10100.A2 MARKER BOARD
10100.C1 PROJECTION SCREEN
10522.B3 SEMI-RECESSED FIRE EXTINGUISHER CABINET W/ EXTINGUISHER
10655.A1 ACCORDIAN PARTITION

DIV 12 FURNISHINGS
12511.A1 HORIZONTAL BLINDS
12690.A1 RECESSED FLOOR MAT

DIV 15 MECHANICAL
15060.D1 DRINKING FOUNTAIN

DIV 16 ELECTRICAL
16000.B2 KEYPAD

## WALL TYPES




| No. | DPW COMMENTS | Date |
|---|---|---|
| | | 8/17/98 |

h2a ARCHITECTS, PA
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420 INDIANA
SUITE 100
COEUR D'ALENE
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# IDAHO DEPARTMENT OF LANDS OFFICE BUILDING

DPW PROJECT #98-500 COEUR D'ALENE, IDAHO

Drawing Title

## FLOOR PLAN

Seal: LICENSED ARCHITECT AR 1252 8/17/98 DALE M. HOOKMAN STATE OF IDAHO

| | |
|---|---|
| Drawn: TMG | Project No.: 9730 |
| Checked: RJC | CAD File No.: 9730\CD\9730A100 |
| Reviewed: DMH | Drawing No.: A100 |
| Date: 7-30-98 | ___ of ___ |
| Scale: AS NOTED | |

A1 FLOOR PLAN
1/8"=1'-0"

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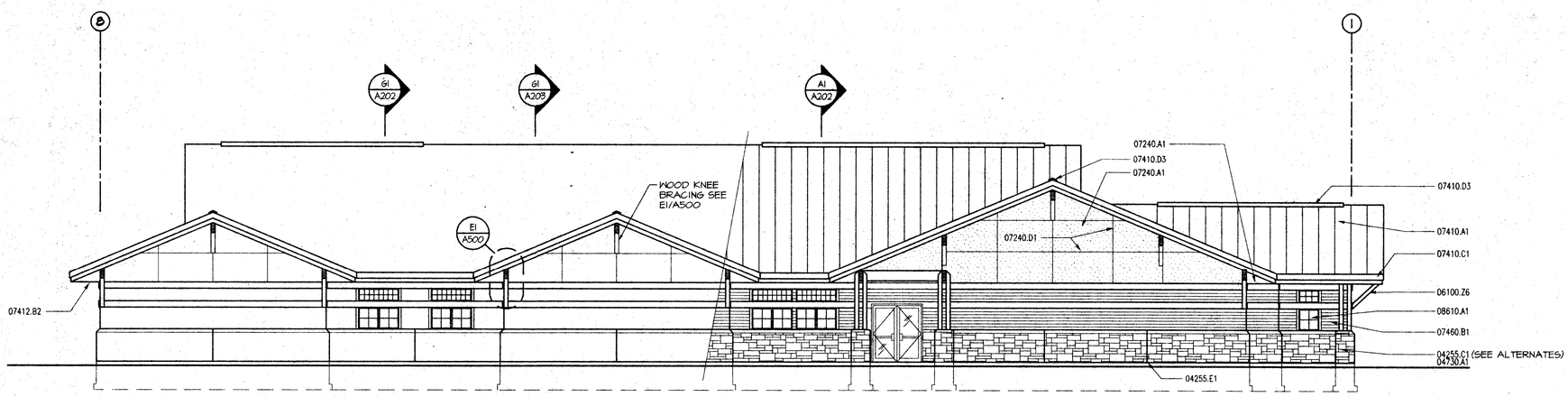
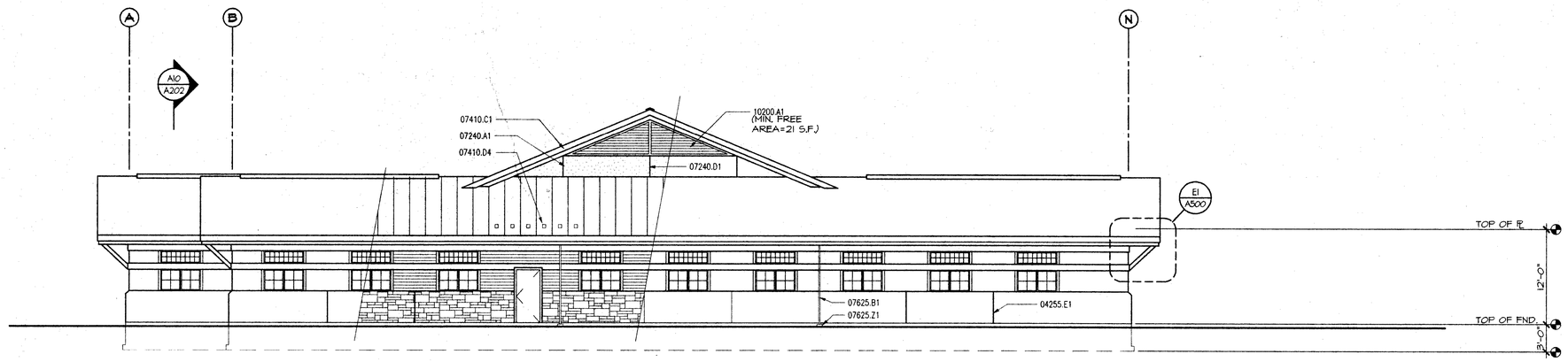



## G1 NORTH (ENTRY) ELEVATION

1/8"=1'-0"




## A1 EAST ELEVATION

1/8"=1'-0"

## MATERIAL KEYING LEGEND

DIV 04 MASONRY
- 04255.C1 4" CMU VENEER
- 04255.E1 CONTROL JOINT
- 04730.A1 CULTURED STONE VENEER

DIV 06 WOOD AND PLASTICS
- 06100.Z6 KNEE BRACE

DIV 07 THERMAL & MOISTURE PROTECTION
- 07240.A1 E.I.F.S.
- 07240.D1 CONTROL JOINT
- 07410.A1 METAL ROOFING
- 07410.C1 METAL FASCIA
- 07410.D3 RIDGE VENT
- 07410.D4 SNOW ANGLE
- 07412.B2 METAL SOFFIT
- 07460.B1 WOOD SIDING
- 07625.B1 DOWNSPOUT
- 07625.Z1 CONCRETE SPLASH BLOCK

DIV 08 DOORS AND WINDOWS
- 08610.A1 CLAD WOOD WINDOW

DIV 10 SPECIALTIES
- 10200.A1 LOUVER

| No. | REVISIONS/SUBMISSIONS | Date |
|---|---|---|
| | DPW COMMENTS | 8/17/98 |

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# IDAHO DEPARTMENT OF LANDS OFFICE BUILDING

DPW PROJECT #98-500 COEUR D'ALENE, IDAHO

Drawing Title: EXTERIOR ELEVATIONS

Seal: LICENSED ARCHITECT AR 1252 — 8/17/98 — DALE R. HICKMAN STATE OF IDAHO

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| Checked | RJC |
| Reviewed | DWH |
| Date | 7-30-98 |
| Scale | AS NOTED |
| Project No. | 9730 |
| CAD File No. | 9730\CD\9730A200 |
| Drawing No. | A200 |

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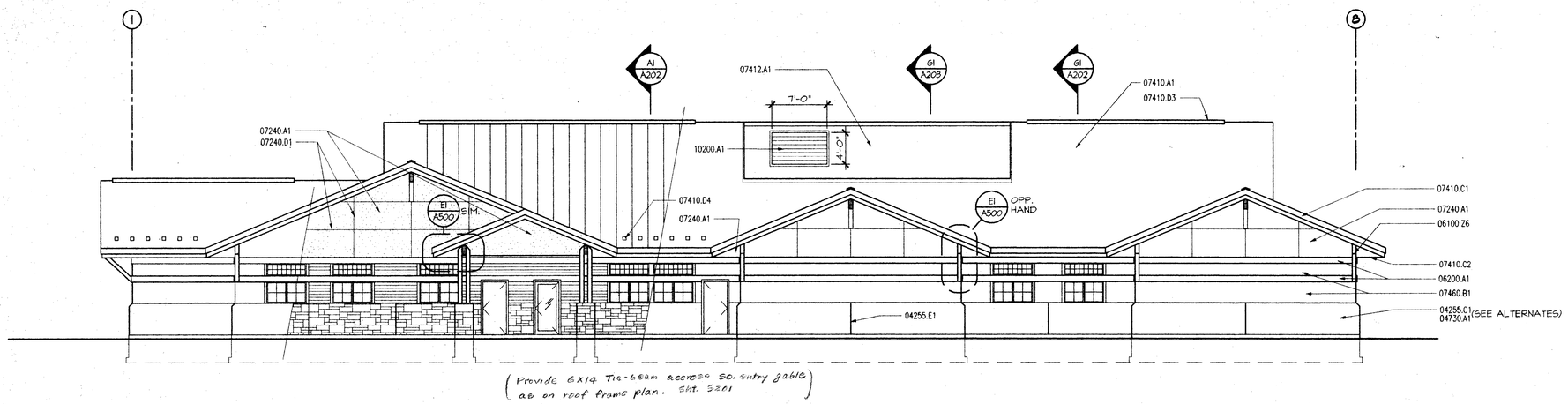
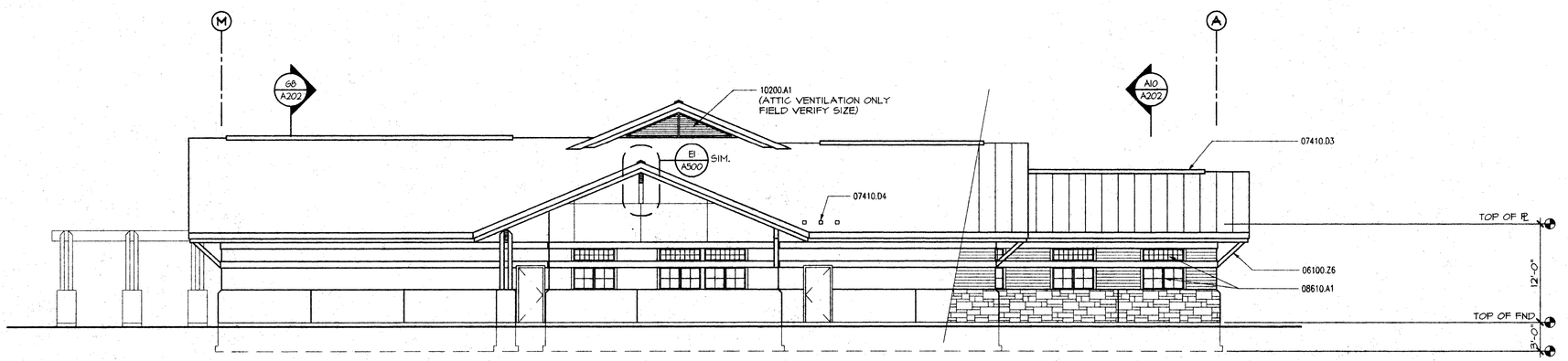



(Provide 6x14 Tie-beam across So. entry gable as on roof frame plan. Sht. S201)

## G1 SOUTH ELEVATION

1/8"=1'-0"




## A1 WEST ELEVATION

1/8"=1'-0"

## MATERIAL KEYING LEGEND

DIV 04 MASONRY

| | |
|---|---|
| 04255.C1 | 4" CMU VENEER |
| 04255.E1 | CONTROL JOINT |
| 04730.A1 | CULTURED STONE VENEER |

DIV 06 WOOD AND PLASTICS

| | |
|---|---|
| 06100.Z6 | KNEE BRACE |
| 06200.A1 | TRIM |

DIV 07 THERMAL & MOISTURE PROTECTION

| | |
|---|---|
| 07240.A1 | E.I.F.S. |
| 07240.D1 | CONTROL JOINT |
| 07410.A1 | METAL ROOFING |
| 07410.C1 | METAL FASCIA |
| 07410.C2 | METAL SOFFIT |
| 07410.D3 | RIDGE VENT |
| 07410.D4 | SNOW ANGLE |
| 07412.A1 | METAL SIDING |
| 07460.B1 | WOOD SIDING |

DIV 08 DOORS AND WINDOWS

| | |
|---|---|
| 08610.A1 | CLAD WOOD WINDOW |

DIV 10 SPECIALTIES

| | |
|---|---|
| 10200.A1 | LOUVER |

| No. | REVISIONS/SUBMISSIONS | Date |
|---|---|---|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# IDAHO DEPARTMENT OF LANDS OFFICE BUILDING

DPW PROJECT #98-500 COEUR D'ALENE, IDAHO

Drawing Title: EXTERIOR ELEVATIONS

Seal: LICENSED ARCHITECT AR 1252 6/17/98 DALE M. HICKMAN STATE OF IDAHO

| | |
|---|---|
| Drawn: TNG | Project No.: 9730 |
| Checked: RJC | CAD File No.: 9730\CD\9730A201 |
| Reviewed: DMH | Drawing No.: A201 |
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| Scale: AS NOTED | |

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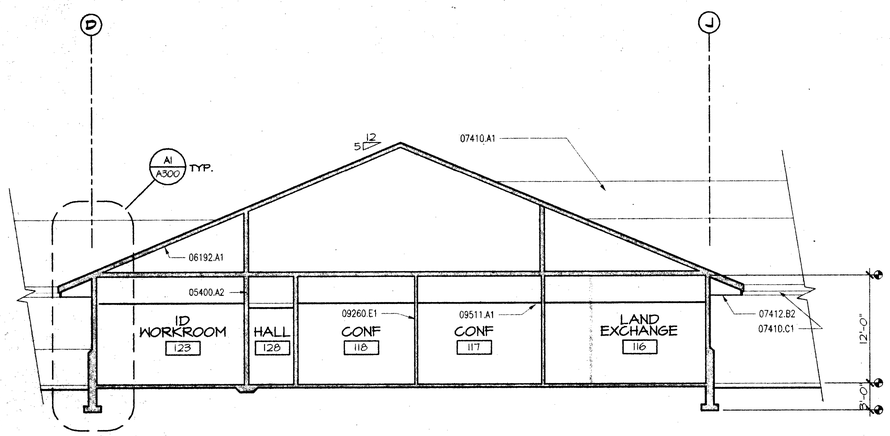
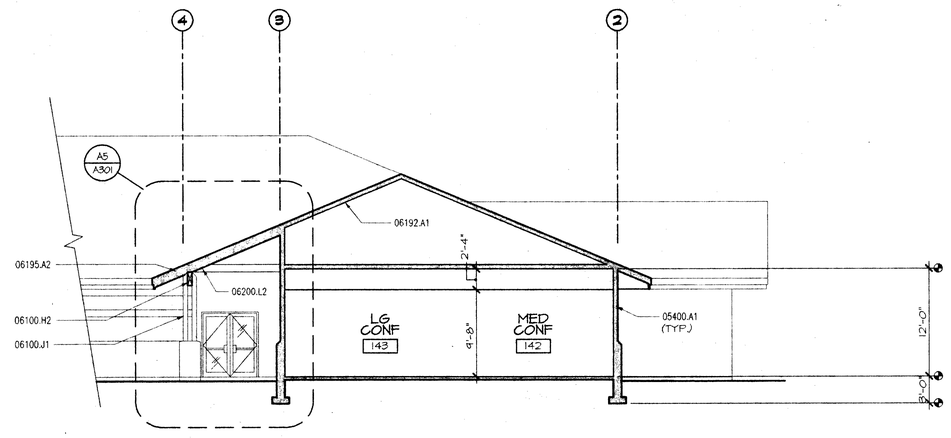


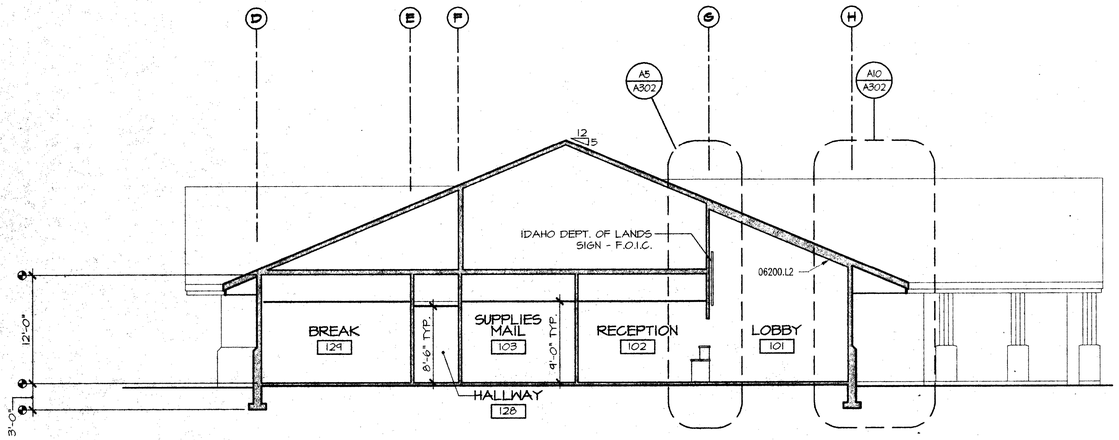

G1 BUILDING SECTION

1/8"=1'-0"



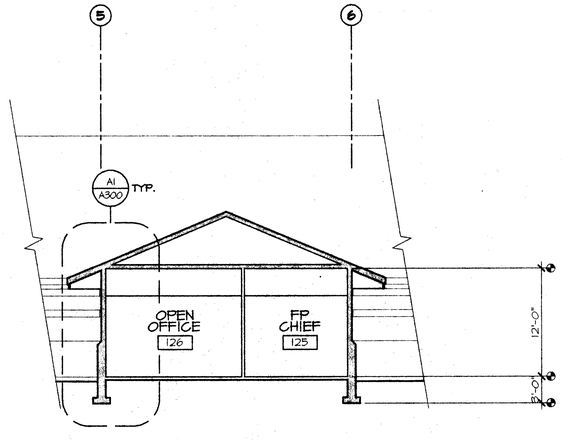

G8 BUILDING SECTION

1/8"=1'-0"




A1 BUILDING SECTION

1/8"=1'-0"




A10 BUILDING SECTION

1/8"=1'-0"

## MATERIAL KEYING LEGEND

DIV 05 METALS
- 05400.A1 6" STEEL STUDS
- 05400.A2 3-1/2" STEEL STUDS

DIV 06 WOOD AND PLASTICS
- 06100.H2 WOOD BEAM
- 06100.J1 WOOD COLUMN
- 06192.A1 PREFABRICATED WOOD ROOF TRUSSES
- 06195.A2 WOOD "I" RAFTERS
- 06200.L2 WOOD CEILING

DIV 07 THERMAL & MOISTURE PROTECTION
- 07410.A1 METAL ROOFING
- 07410.C1 METAL FASCIA
- 07412.B2 METAL SOFFIT

DIV 09 FINISHES
- 09260.E1 METAL STUDS
- 09511.A1 ACOUSTICAL LAY-IN CEILING

| No. | REVISIONS/SUBMISSIONS | Date |
|---|---|---|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# IDAHO DEPARTMENT OF LANDS OFFICE BUILDING

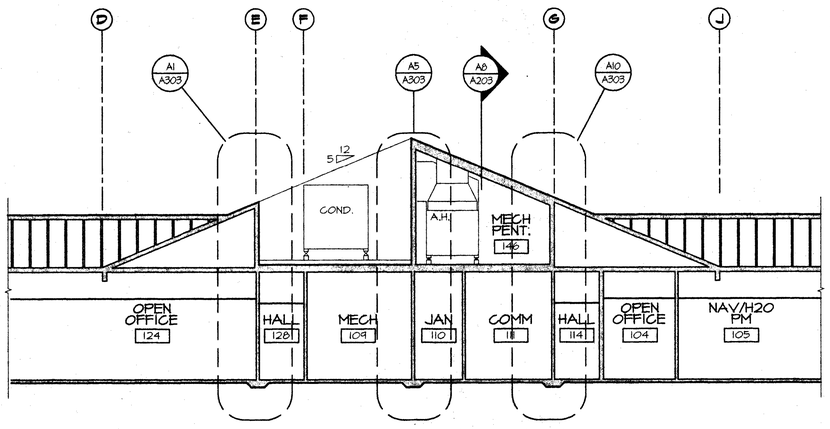
DPW PROJECT #98-500 COEUR D'ALENE, IDAHO

Drawing Title: BUILDING SECTIONS

Seal: LICENSED ARCHITECT AR 1252 — 6/17/98 — DALE R. HICKMAN — STATE OF IDAHO

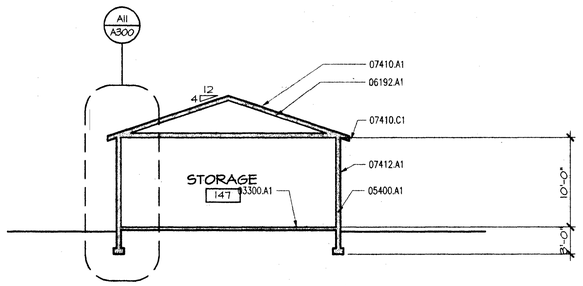
| | |
|---|---|
| Drawn | TKG |
| Checked | RJC |
| Reviewed | DRH |
| Date | 7-30-98 |
| Scale | AS NOTED |
| Project No. | 9730 |
| CAD File No. | 9730\CD\9730A202 |
| Drawing No. | A202 |
| | ___ of ___ |

10:54 am - 08/17/98



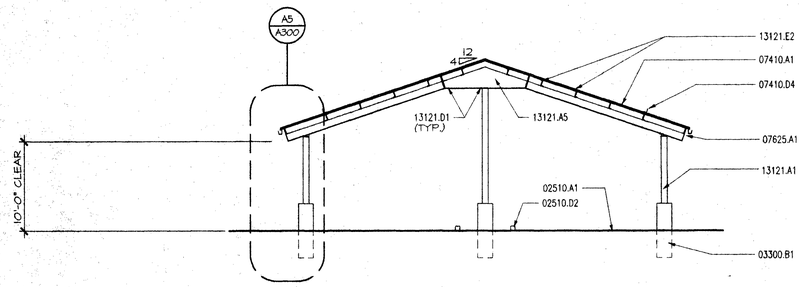

## G1 BUILDING SECTION

1/8"=1'-0"



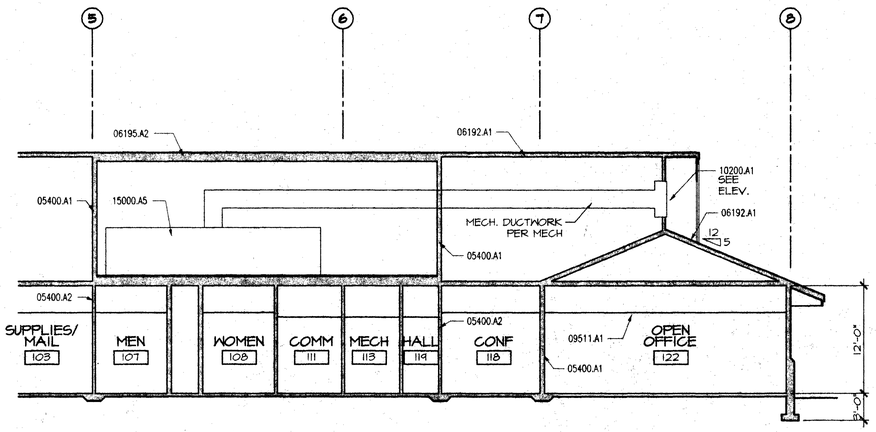

## G10 SECTION

1/8"=1'-0"




## A1 BUILDING SECTION

1/8"=1'-0"




## A8 BUILDING SECTION

1/8"=1'-0"

## MATERIAL KEYING LEGEND

DIV 02 SITEWORK
- 02510.A1 ASPHALT CONCRETE PAVING
- 02510.D2 PARKING BUMPER

DIV 03 CONCRETE
- 03300.A1 CONCRETE SLAB
- 03300.B1 CONCRETE FOOTING

DIV 05 METALS
- 05400.A1 6" STEEL STUDS
- 05400.A2 3-1/2" STEEL STUDS

DIV 06 WOOD AND PLASTICS
- 06192.A1 PREFABRICATED WOOD ROOF TRUSSES
- 06195.A2 WOOD 'I' RAFTERS

DIV 07 THERMAL & MOISTURE PROTECTION
- 07410.A1 METAL ROOFING
- 07410.C1 METAL FASCIA
- 07410.D4 SNOW ANGLE
- 07412.A1 METAL SIDING
- 07625.A1 GUTTER

DIV 09 FINISHES
- 09511.A1 ACOUSTICAL LAY-IN CEILING

DIV 10 SPECIALTIES
- 10200.A1 LOUVER

DIV 13 SPECIAL CONSTRUCTION
- 13121.A1 BUILDING COLUMN
- 13121.A5 GIRDER
- 13121.D1 STRUCTURAL CONNECTION BY BUILDING SUPPLIER
- 13121.E2 PURLIN

DIV 15 MECHANICAL
- 15000.A5 MECHANICAL UNIT

| No. | REVISIONS/SUBMISSIONS | Date |
|---|---|---|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# IDAHO DEPARTMENT OF LANDS OFFICE BUILDING

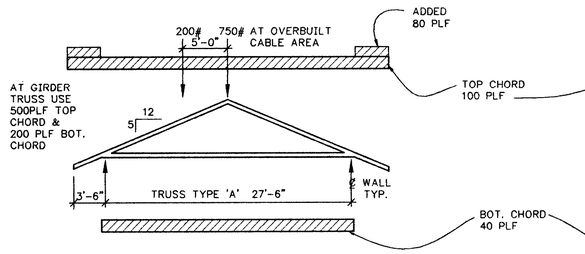
DPW PROJECT #98-500 COEUR D'ALENE, IDAHO

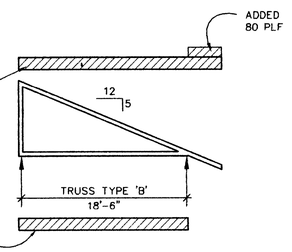
Drawing Title: BUILDING SECTIONS

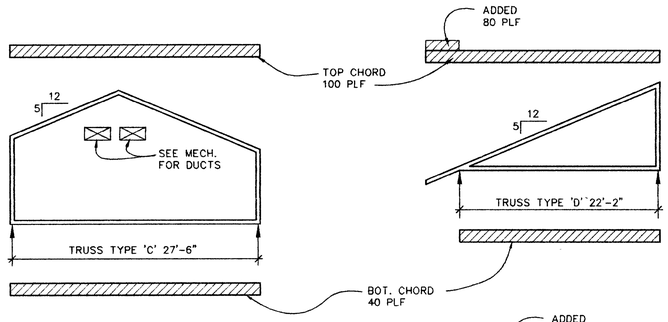
Seal: LICENSED ARCHITECT AR 12512 — 7/17/98 — DALE R. HERMAN — STATE OF IDAHO

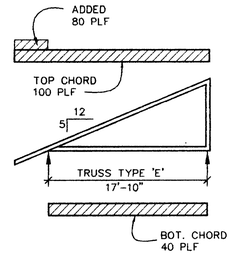
| | |
|---|---|
| Drawn: TMG | Project No.: 9730 |
| Checked: RJC | CAD File No.: 9730A203 |
| Reviewed: DRH | Drawing No.: A203 |
| Date: 7-30-98 | ___ of ___ |
| Scale: AS NOTED | |

4:21 pm - 07/29/98

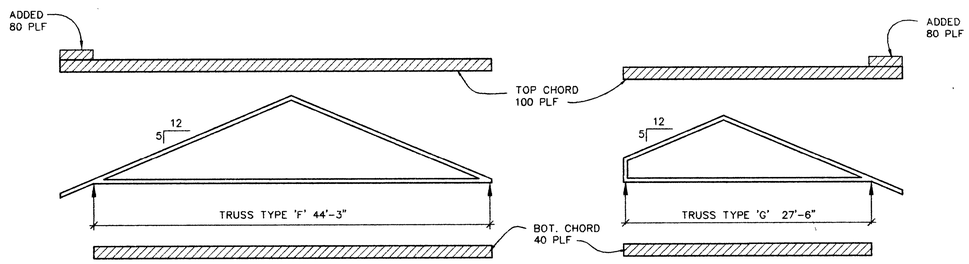


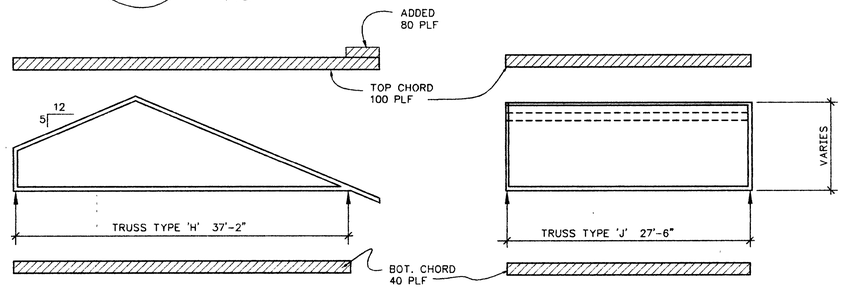



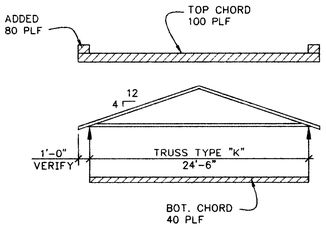



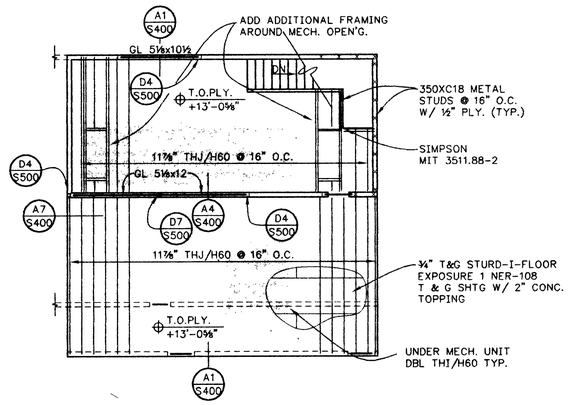

NOTES:
1. SEE MECH. FOR SIZE AND LOCATIONS OF DUCTS IN TRUSS SPACE.
2. SEE STRUCTURAL NOTES S001.



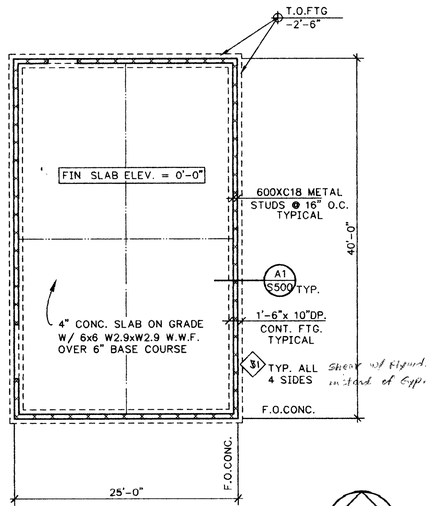



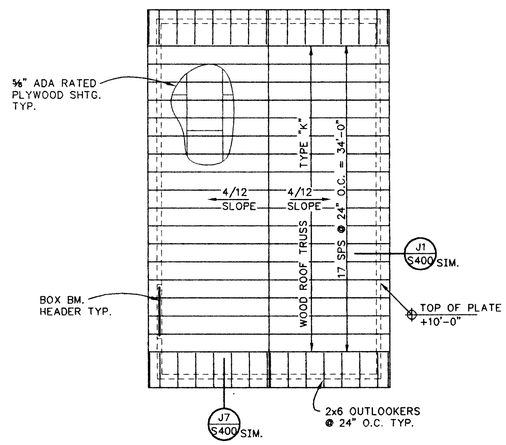

F1 — ROOF TRUSS PROFILES
1/8" = 1'-0"




A1 — MECH. PENTHOUSE FLR FRAMING PLAN
1/8" = 1'-0"




A6 — ARCHIVES - FOUNDATION PLAN
1/8" = 1'-0"




A10 — ARCHIVES - ROOF FRAMING PLAN
1/8" = 1'-0"

| No | REVISIONS/SUBMISSIONS | Date |
|---|---|---|
| | | |

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IDAHO DEPARTMENT OF LANDS
OFFICE BUILDING
DPW PROJECT #98-500 COEUR D'ALENE, IDAHO

Drawing Title: ROOF TRUSS PROFILES, MECH. FLR FRMG. PLAN & ARCHIVES PLANS

Seal: REGISTERED PROFESSIONAL ENGINEER 2045 STATE OF IDAHO RICHARD D. ATKINSON

| | |
|---|---|
| Drawn: DM | Project No.: 9730 |
| Checked: RSC | CAD File No.: 981031-S202 |
| Reviewed: CWH | Drawing No.: S202 |
| Date: 7-29-98 | ___ of ___ |
| Scale: 1/8"=1'-0" | |

# PLUMBING/PIPING LEGEND

GENERAL LEGEND

- #% — PIPE SLOPE/PITCH (# INDICATES PERCENTAGE OF SLOPE)
- DIRECTION OF FLOW
- NEW PIPE
- EXISTING PIPE
- EXISTING PIPE TO BE REMOVED
- EXISTING PIPE TO BE ABANDONED (ACCOMPANIED BY KEY NOTE)
- DOMESTIC COLD WATER
- DOMESTIC HOT WATER
- DOMESTIC RECIRCULATED WATER
- VENT (ABOVE FLOOR)
- VENT (BELOW FLOOR)
- WASTE (ABOVE FLOOR)
- WASTE (BELOW FLOOR)
- IW — INDIRECT WASTE (ABOVE FLOOR)
- ODL — OVERFLOW DRAIN LINE
- RDL — ROOF DRAIN LINE
- SD — STORM DRAIN
- SS — SANITARY SEWER
- G — NATURAL GAS (7" WC, UNLESS OTHERWISE NOTED)
- F — FIRE
- DSP — DRY STAND PIPE
- FDC — FIRE DEPARTMENT CONNECTION PIPE

HYDRONICS LEGEND

- CWS — CHILLED WATER SUPPLY
- CWR — CHILLED WATER RETURN
- HWS — HOT WATER SUPPLY
- HWR — HOT WATER RETURN
- HS — HEAT PUMP SUPPLY
- HR — HEAT PUMP RETURN
- PC — PUMPED CONDENSATE
- CD — CONDENSER DRAIN
- CDS — CONDENSER SUPPLY
- CDR — CONDENSER RETURN

# PLUMBING/PIPING SYMBOLS

GENERAL SYMBOLS

- ELBOW UP
- ELBOW DOWN
- TEE UP
- TEE DOWN
- CONCENTRIC REDUCER/INCREASER
- ECCENTRIC REDUCER/INCREASER
- UNION
- RISE/DROP IN PIPE
- VENT THRU ROOF
- PIPE SLEEVE
- EXPANSION JOINT
- FLEXIBLE CONNECTION
- PIPE ANCHOR
- PIPE GUIDE
- CAP
- ROOF DRAIN
- ROOF DRAIN (ABOVE)
- CLEAN-OUT (BELOW)
- CLEAN-OUT (FLUSH TO FLOOR OR GRADE)
- MANHOLE/DRYWELL
- FLOOR DRAIN
- FLOOR SINK
- WATER HAMMER ARRESTER
- THERMOMETER
- FLOOR/WALL PENETRATION
- FLOW SWITCH
- CIRCULATING PUMP (POINTS IN DIRECTION OF FLOW)
- PRESSURE GAUGE
- VALVE (AS INDICATED OR SPECIFIED)
- GLOBE VALVE
- VALVE IN RISER
- ANGLE VALVE
- CHECK VALVE
- PRESSURE & TEMPERATURE RELIEF VALVE
- PRESSURE REDUCING VALVE (POINTS TOWARDS LOW PRESSURE)
- GAS VALVE
- SOLENOID VALVE
- VALVE W/TAMPER SWITCH
- HOSE BIBB/WALL HYDRANT
- HOSE BIBB (ELEVATION)
- FIRE DEPARTMENT CONNECTION
- CIRCUIT SETTER
- INDICATES SCREWED FITTINGS
- INDICATES WELDED FITTINGS
- INDICATES FLANGED FITTINGS

HYDRONICS SYMBOLS

- STRAINER
- PRESSURE SWITCH
- STRAIGHT-THRU MODULATING CONTROL VALVE
- THREE-WAY MODULATING CONTROL VALVE
- MOTOR OPERATED VALVE
- TWO-WAY CONTROL VALVE
- GAUGE COCK
- SIGHT GLASS
- AUTOMATIC AIR VENT
- MANUAL AIR VENT
- VENTURI
- AIR SEPARATOR
- TEST PLUG

GENERAL SYMBOLS

- KEY NOTE
- ROOM NUMBER
- DETAIL NUMBER / DETAIL REFERENCE / SHEET NUMBER
- THIS SHEET # / MATCH LINE REFERENCE / MATCHED SHEET #
- CONNECTION TO EXISTING (# INDICATES EXISTING SIZE)
- SECTION NUMBER / SECTION REFERENCE / SHEET NUMBER

LINEWEIGHT LEGEND

- EXISTING TO REMAIN
- NEW WORK
- DEMOLITION
- FUTURE WORK

ABBREVIATIONS

| | | | |
|---|---|---|---|
| AFF | ABOVE FINISH FLOOR | MNT | MOUNTIED) |
| AFG | ABOVE FINISH GRADE | N.C. | NORMALLY CLOSED |
| CI | CAST IRON | N.O | NORMALLY OPEN |
| CLG | CEILING | PRV | PRESSURE REDUCING VALVE |
| CP | CHROME PLATED | PSI | POUNDS PER SQUARE INCH |
| CO | CLEAN-OUT | PSF | POUNDS PER SQUARE FOOT |
| COIW | CLEAN-OUT IN WALL | RD | ROOF DRAIN |
| COTF | CLEAN-OUT TO FLOOR | RPBP | REDUCED PRESSURE BACKFLOW PREVENTER |
| COTG | CLEAN-OUT TO GRADE | | |
| DIV | DIVISION | SS | STAINLESS STEEL |
| DWG | DRAWING | SV | SUMP VENT |
| FD | FLOOR DRAIN | TYP | TYPICAL |
| FRWH | FREEZE RESISTANT WALL HYDRANT | VTR | VENT THRU ROOF |
| FS | FLOOR SINK | WC | WATER COLUMN |
| FT | FEET | WHA | WATER HAMMER ARRESTER |
| GA | GAUGE | W/ | WITH |
| GPM | GALLONS PER MINUTE | W/IN | WITHIN |
| GTV | GAS TANK VENT | W/O | WITHOUT |
| IE | INVERT ELEVATION | ϕ | DIAMETER |
| IN | INCHES | (E) | EXISTING |
| IW | INDIRECT WASTE | | |

ANNOTATION

- P# — FIXTURE ITEM NUMBER (P1)
- #"FD-# — FLOOR DRAIN SIZE AND TYPE (2"FD-1)
- #"FS-# — FLOOR SINK SIZE AND TYPE (2"FS-1)
- #"RD-# — ROOF DRAIN SIZE AND TYPE (2"RD-1)

# HVAC SYMBOLS

GENERAL SYMBOLS

- NEW DUCTWORK
- EXISTING DUCTWORK
- DUCTWORK TO BE REMOVED
- RECT. SUPPLY DUCT (SECTION)
- RECT. RETURN DUCT (SECTION)
- RECT. EXHAUST DUCT (SECTION)
- RECT. OSA DUCT (SECTION)
- ROUND SUPPLY DUCT (SECTION)
- ROUND RETURN DUCT (SECTION)
- ROUND EXHAUST DUCT (SECTION)
- ROUND OSA DUCT (SECTION)
- INTERNAL INSULATION
- ALUMINUM/STAINLESS STEEL DUCTWORK (AS SPECIFIED)
- AIR TRANSFER DUCT SLEEVE
- FLEXIBLE DUCT
- FLEXIBLE CONNECTION
- UP (OR DOWN) — DUCT OFFSET & DIRECTION
- TURNING VANES
- AIR SPLIT TAKEOFF
- SINGLE BLADE VOLUME DAMPER
- OPPOSED BLADE VOLUME DAMPER
- FIRE AND/OR SMOKE DAMPER (SCHEDULE TO INDICATE DAMPER TYPE)
- DAMPER MOTOR OPERATOR
- ATTENUATOR
- TERMINAL BOX, HEAT PUMP, OR FAN COIL UNIT
- DUCT SECURITY GRILLE
- THERMOSTAT
- SUPPLY AIR FLOW
- RETURN AIR FLOW
- TERMINAL BOX TYPE
- FIRE/SMOKE DAMPER TYPE
- FAN TYPE
- #/# — EQUIPMENT IDENTIFIER
- EQUIPMENT TYPE / EQUIPMENT IDENTIFIER / EQUIPMENT NUMBER
- 12"x12" 1 250 — DIFFUSER OR REGISTER/GRILLE INFORMATION (CFM VALUE / DIFFUSER TYPE / DIFFUSER SIZE)
- RECTANGULAR DIFFUSER (ARROWS INDICATE THROW)
- RECTANGULAR REGISTER/GRILLE
- LINEAR DIFFUSER (ARROWS INDICATE THROW)
- DUCTED REGISTER/GRILLE
- EXHAUST HOOD
- CIRCULAR DIFFUSER (ARROWS TO INDICATE AIR TYPE)
- SIDEWALL DIFFUSER (ARROWS TO INDICATE AIR TYPE)
- LOUVER (ARROWS TO INDICATE AIR TYPE)
- 12"x8" — RECT. DUCT SIZE (WIDTH×DEPTH)
- 12"ϕ — CIRCULAR DUCT DIAMETER
- 24"x18"-ϕ — OVAL DUCT SIZE (WIDTH×DEPTH)

ABBREVIATIONS

| | | | |
|---|---|---|---|
| AFF | ABOVE FINISH FLOOR | MNT | MOUNTIED) |
| AFG | ABOVE FINISH GRADE | N.C. | NORMALLY CLOSED |
| AH | AIR HANDLING UNIT | N.O. | NORMALLY OPEN |
| AT | ATTENUATOR | OSA | OUTSIDE AIR |
| BLR | BOILER | PRV | PRESSURE REDUCING VALVE |
| CFM | CUBIC FEET PER MINUTE | RA | RETURN AIR |
| CIRC | CIRCULATION | RC | ROOF COWL |
| CLG | CEILING | SP | STATIC PRESSURE |
| CP | CHROME PLATED | SS | STAINLESS STEEL |
| DIV | DIVISION | TYP | TYPICAL |
| DWG | DRAWING | UH | UNIT HEATER |
| EF | EXHAUST FAN | VEL | VELOCITY |
| ET | EXPANSION TANK | W/ | WITH |
| EXH | EXHAUST | W/IN | WITHIN |
| FPM | FEET PER MINUTE | W/O | WITHOUT |
| GA | GAUGE | ϕ | DIAMETER |
| MAX | MAXIMUM | -ϕ | FLAT OVAL |
| MFR | MANUFACTURER | (E) | EXISTING |
| MIN | MINIMUM | | |

ANNOTATION

- AH-# — AIR HANDLING UNIT NUMBER (AH-1)
- AFM-# — AIR FLOW MONITORING STATION NUMBER (AFM-1)
- B-# — BOILER NUMBER (B-1)
- CU-# — CONDENSING UNIT NUMBER (CU-1)
- EF-# — EXHAUST FAN NUMBER (EF-1)
- ET-# — EXPANSION TANK NUMBER (ET-1)
- L-# — LOUVER NUMBER (L-1)
- RC-# — ROOF COWL NUMBER (RC-1)
- UH-# — UNIT HEATER NUMBER (UH-1)

NOTE:
SYMBOLS AND ABBREVIATIONS ON THE DRAWINGS SHALL BE INTERPRETED IN ACCORDANCE WITH THE LEGENDS WHEREVER APPLICABLE. NOT ALL SYMBOLS AND ABBREVIATIONS IN THE LEGENDS ARE NECESSARILY USED FOR THE PROJECT.

MATERIAL KEYING LEGEND

MW Consulting Engineers
North 222 Wall Street, Suite 200
Spokane, WA 99201-0813
E-Mail: mail@mwengineers.com
Telephone: 509.838.9020 FAX: 509.838.1123

| No. | REVISIONS/SUBMISSIONS | Date |
|---|---|---|
| | | |

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IDAHO DEPARTMENT OF LANDS OFFICE BUILDING
DPW PROJECT #98-500 COEUR D'ALENE, IDAHO

Drawing Title: SYMBOLS & LEGENDS - MECHANICAL

Seal: REGISTERED PROFESSIONAL ENGINEER — STATE OF IDAHO — JAMES W. MOORE — 8-18-98

| | |
|---|---|
| Drawn: MW | Project No.: 9730 |
| Checked: AB | CAD File No.: 97025M01 |
| Reviewed: | Drawing No.: M000 |
| Date: 7-30-98 | ___ of ___ |
| Scale: NONE | |

07-29-1998 97025M01 Update-5 Rev-0 JonV

# AIR HANDLING UNITS

HEATING WATER EWT 180°F  SUMMER AMBIENT TEMP: 95
WINTER AMBIENT TEMP: -15

| # | MFR | MODEL | MINIMUM OSA (CFM) | SUPPLY FAN | | | | | | RETURN FAN | | | | | | DX COOLING COIL | | | | | | | | | HEATING COIL | | | | | | | | | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | TYPE | WHEEL ø | CFM | TSP ("WC) | RPM | MOTOR HP | MOTOR V/ø | TYPE | WHEEL ø" | CFM | TSP ("WC) | RPM | MOTOR HP | MOTOR V/ø | SIZE (") | MBH SENSE | MBH TOTAL | EAT (°F) DB | EAT (°F) WB | LAT (DB °F) | LAT (WB °F) | SST (°F) | APD ("WC) | RPD (PSI) | ROWS/ FPI | SIZE (") | MBH | GPM | LWT | EAT (°F) | LAT (°F) | APD ("WC) | WPD (FT. HD) | ROWS/ FPI | |
| AH-1 | PACE | CUSTOM | 3650 | SWSI PLUG | 33 | 15000 | 3.5 | 1160 | 20 | 208/3 | SWSI PLUG | 36 | 13000 | 1.25 | 690 | 7½ | 208/3 | (2)130.0×74 | 206.7 EACH | 201.3 EACH | 80.0 | 62.0 | 53.0 | 52.3 | 43.0 | 0.28 | 3.44 | 4/8 | (2)130.0×74 | 152.1 | 7.9 | 140 | 36.0 | 69.1 | 0.03 | 0.25 | 1 / 8 | ①②③ |

NOTES:
① HEATING WATER COIL PERFORMANCE BASED ON 23% PROPYLENE GLYCOL SOLUTION.
② DX COOLING COILS TO BE INTERTWINED CIRCUIT SPLIT (FULL FACE ACTIVE WITH ALL ROWS ACTIVE).
③ PROVIDE SIDE ACCESS PRE-FILTER/FINAL FILTER SECTION (33.3 SQ FT FILTER FACE AREA, UNIT HEIGHT 68" TO SUIT). ±0.50" SP TOTAL FILTER PRESSURE DROP (BOTH FILTER SECTIONS - CLEAN) AT 450 FPM (RECOMMENDED CHANGE OUT AT 1.50" SP TOTAL COMBINED PRESSURE DROP).

# AIR COOLED CONDENSING UNIT SCHEDULE

MFR: CARRIER

| # | MODEL | UNIT | | | | | | COMPR. MOTORS | | | CONDENSER | | OPERATING WEIGHT (LBS) | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | TOTAL CAPAC. (MBH) | AMB. AIR (°F) | SST (°F) | SYS PWR (KW) | MIN. CIRCUIT AMPS | V/ø | # | AMPS RATED LOAD | AMPS LOCKED ROTOR | # FANS | FLA | | |
| CU-1 | 38AH044 | 452 | 100 | 42.5 | 43.0 | 174.6 | 208/3 | 2 | 67.9 | 345 | 4 | 5.5 EACH | 3260 | ① ② |
| | | | | | | | | | | | | | | |

NOTES:
① PROVIDE WITH ACCESSORY FULL PERIMETER ISOLATION RAIL BASE EQUAL TO MW SAUSSE CO. MODEL RM-LSB, FOR MOUNTING ON PLATFORM ROOF CURB STRUCTURE (PLATFORM NOT IN DIVISION 15).
② CAPACITIES LISTED PER MATCHED COIL PARAMETERS.

# AIR OUTLETS

| # | MFR | MODEL | SYSTEM | TYPE | MATERIAL | MOUNTING | PATTERN | BLADE SPC (") | BLADE POS | BLADE DEFL (°) | ACCESSORIES | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | TITUS | MCD-3 | SUPPLY | MODULAR CORE DIFFUSER | STEEL | LAY-IN | 4-WAY ADJUSTABLE | - | - | - | - | ① |
| 2 | TITUS | MCD-1 | SUPPLY | MODULAR CORE DIFFUSER | STEEL | SURFACE | 4-WAY ADJUSTABLE | - | - | - | - | ① |
| 3 | TITUS | 300-RL | SUPPLY | REGISTER | STEEL | SURFACE | DOUBLE DEFLECTION | ¾ | HORIZONTAL FACE BLADES | 35 | - | ① |
| 4 | TITUS | 350-RL-3 | RETURN | GRILLE | STEEL | LAY-IN | - | ¾ | FACE BLADES W/LONG DIM | 35 | - | ① |
| 5 | TITUS | 350-RL-1 | RETURN | GRILLE | STEEL | SURFACE | - | ¾ | FACE BLADES W/LONG DIM | 35 | - | ① |
| 6 | TITUS | 350-RL-1 | RETURN/ EXHAUST | REGISTER | STEEL | SURFACE | - | ¾ | FACE BLADES W/LONG DIM | 35 | - | ① |
| | | | | | | | | | | | | |

NOTES:
① FINISH SHALL BE STANDARD WHITE BAKED ENAMEL. FIELD FINISH PAINTING NOT IN DIVISION 15

# EXPANSION TANKS

| # | MFR | MODEL # | SERVICE | VOLUME (GAL) TANK | VOLUME (GAL) ACCEPT. | VOLUME (GAL) SYSTEM | PRESSURE (PSIG) INITIAL FILL | PRESSURE (PSIG) OPERATING | OPERATING TEMP. (°F) | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|
| ET-1 | TACO | CX42 | HEATING WATER | 11 | 5 | 150 | 12 | 40 | 180° MAX | VERTICAL STYLE-DIAPHRAGM TYPE |
| | | | | | | | | | | |

# EXHAUST FANS

| # | MFR | MODEL | LOCATION | SERVICE | DRIVE | CFM | SP ("WC) | RPM | SONE | MOTOR HP | MOTOR V/ø | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EF-1 | COOK | ACE-B 150 | ROOF | GENERAL BLDG | BELT | 2100 | .75 | 1295 | 14.1 | ¾ | 208/3 | ①② |
| | | | | | | | | | | | | |

NOTES:
① PROVIDE PREFABRICATED 16" HIGH CURB/EXTENSION TO SUIT ROOF INSULATION DEPTH
② PROVIDE 120VAC MOTORIZED BACK DRAFT DAMPER.

# FIRE AND FIRE/SMOKE DAMPERS

| # | MFR | MODEL # | TYPE | UL RATING | BLADE STACK | NOTES |
|---|---|---|---|---|---|---|
| 1 | RUSKIN | FSD36 STYLE G | COMBINATION FIRE/SMOKE | 1½ HR PER UL555 AND UL5555 | PARALLEL BLADE | ①② |
| 2 | RUSKIN | DIBD2 STYLE B | FIRE DAMPER | 1½ HR PER UL555 | OUT OF AIRSTREAM | |

NOTES:
① SMOKE LEAKAGE CLASS 2, 165°F FIRE DAMPER LINKAGE.
② PROVIDE 120VAC NORMALLY CLOSED ELECTRIC ACTUATOR, RATED FOR 250°F.

# TERMINAL UNIT BOXES

MFR: TITUS MODEL DESV

| # | SIZE | ROOM SERVED | INLET DIA. (") | CFM MAX | CFM MIN (OCCUPIED) | CFM MIN (UNOCCUPIED) | MIN SP (") | NOISE CRITERIA DISCHARGE | NOISE CRITERIA RADIATED | EAT = 55° HOT WATER COIL # ROWS | LAT | LWT | GPM | EWT = 180° APD ("WC) | WPD (FT) | MBH | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ⓐ | 08 | 101 | 8 | 600 | 400 | 400 | 0.39 | <10 | 18 | 2 | 92.1 | 122.2 | 1.0 | 0.27 | 0.1 | 16.0 | ① ② |
| Ⓑ | 12 | 102, 103 | 12 | 1200 | 725 | 0 | 0.24 | 11 | 22 | 1 | 75.0 | 122.8 | 0.6 | 0.14 | 0.1 | 15.7 | ① ② |
| Ⓒ | 10 | 107-112 | 10 | 825 | 825 | 825 | 0.24 | 11 | 27 | 1 | 75.0 | 145.4 | 1.1 | 0.13 | 0.3 | 17.8 | ① ② |
| Ⓓ | 08 | 104 | 8 | 600 | 400 | 0 | 0.26 | <10 | 19 | 1 | 86.0 | 165.4 | 2.0 | 0.14 | 2.6 | 13.4 | ① ② |
| Ⓔ | 05 | 105 | 5 | 275 | 175 | 0 | 0.21 | 10 | 17 | 2 | 109.4 | 142.5 | 1.0 | 0.11 | 0.1 | 10.3 | ① ② |
| Ⓕ | 07 | 115, 116 | 7 | 475 | 325 | 0 | 0.26 | 10 | 18 | 2 | 98.4 | 129.9 | 1.0 | 0.17 | 0.1 | 14.5 | ① ② |
| Ⓖ | 07 | 120, 121 | 7 | 450 | 300 | 0 | 0.28 | 10 | 18 | 2 | 99.6 | 127.3 | 1.0 | 0.16 | 0.1 | 14.5 | ① ② |
| Ⓗ | 14 | 122 (N) | 14 | 1600 | 1000 | 1000 | 0.32 | 11 | 29 | 2 | 96.0 | 116.0 | 1.5 | 0.23 | 0.4 | 44.3 | ① ② |
| Ⓘ | 05 | 117 | 5 | 225 | 135 | 0 | 0.10 | <10 | 11 | 1 | 90.2 | 142.6 | 0.5 | 0.04 | 0.1 | 5.1 | ① ② |
| Ⓙ | 06 | 118 | 6 | 325 | 200 | 0 | 0.20 | 10 | 21 | 1 | 81.2 | 138.7 | 0.5 | 0.08 | 0.1 | 5.7 | ① ② |
| Ⓚ | 14 | 122 (S) | 14 | 1600 | 1000 | 1000 | 0.32 | 11 | 29 | 2 | 95.0 | 113.8 | 1.4 | 0.23 | 0.3 | 43.2 | ① ② |
| Ⓛ | 10 | 124,129 | 10 | 875 | 535 | 0 | 0.37 | 10 | 25 | 2 | 97.0 | 129.6 | 1.0 | 0.27 | 0.2 | 24.3 | ① ② |
| Ⓜ | 06 | 125 | 6 | 325 | 225 | 0 | 0.27 | 10 | 20 | 2 | 102.1 | 138.2 | 1.0 | 0.15 | 0.1 | 11.4 | ① ② |
| Ⓝ | 10 | 126 | 10 | 850 | 565 | 0 | 0.35 | <10 | 25 | 2 | 94.0 | 125.6 | 0.9 | 0.26 | 0.2 | 23.8 | ① ② |
| Ⓞ | 07 | 124 | 7 | 400 | 250 | 0 | 0.22 | <10 | 17 | 2 | 104.9 | 130.9 | 1.0 | 0.13 | 0.1 | 13.5 | ① ② |
| Ⓟ | 08 | 135 | 8 | 650 | 400 | 0 | 0.33 | <10 | 18 | 2 | 95.4 | 124.3 | 1.0 | 0.24 | 0.1 | 15.3 | ① ② |
| Ⓠ | 06 | 136,137 | 6 | 350 | 230 | 0 | 0.31 | 10 | 21 | 2 | 101.5 | 137.9 | 1.0 | 0.18 | 0.1 | 11.5 | ① ② |
| Ⓡ | 08 | 139 | 8 | 575 | 375 | 0 | 0.36 | <10 | 18 | 2 | 102.0 | 139.8 | 0.9 | 0.25 | 0.3 | 19.0 | ① ② |
| Ⓢ | 12 | 138,145 | 12 | 1275 | 800 | 800 | 0.27 | 13 | 23 | 1 | 75.0 | 126.1 | 0.7 | 0.16 | 0.1 | 17.3 | ① ② |
| Ⓣ | 08 | 141 | 8 | 600 | 375 | 0 | 0.39 | <10 | 18 | 2 | 93.6 | 123.0 | 1.0 | 0.27 | 0.1 | 15.6 | ① ② |
| Ⓤ | 10 | 143 | 10 | 975 | 625 | 0 | 0.45 | 13 | 28 | 2 | 90.5 | 121.8 | 0.9 | 0.33 | 0.2 | 23.9 | ① ② |
| | | | | | | | | | | | | | | | | | |

NOTES:
① PERFORMANCE BASED ON 23% PROPYLENE GLYCOL SOLUTION.
② NOISE CRITERIA BASED ON ARI STANDARDS 880-94 & 885-89.

# GAS FIRED BOILERS

| # | MFR | MODEL # | CAPACITY (MBH) MINIMUM INPUT | CAPACITY (MBH) MINIMUM OUTPUT | MIN GAS PRESSURE ("WC) | HEATING WATER LEAVING TEMP (°F) | HEATING WATER FLOW (GPM) | HEATING WATER WPD (FT) | VOLT/ø | NET WEIGHT (LBS) | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| B-1 | LOCHINVAR | CHN0751 2 | 750 | 630 | 7 | 180 | 38 | 3.3 | 120/1 | 524 | ① ② |
| | | | | | | | | | | | |

NOTES:
① PROVIDE FACTORY COMBUSTION AIR AND VENT CAP ACCESSORIES
② HEATING WATER SOLUTION AT 23% PROPYLENE GLYCOL.

# CIRCULATING PUMPS

| # | MFR | MODEL # | TYPE | SERVICE | GPM | FEET HEAD | FT. MAX SHUT-OFF HEAD | EFF % | SUCTION SIZE | DISCH SIZE | RPM | ELECT HP | ELECT V/ø | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| P-1 | B & G | 1½×1½×7B | INLINE | HEATING WATER | 38 | 40 | 43 | 53.4 | 1½" | 1½" | 1750 | 1 | 208/3 | ① |
| P-2 | B & G | 1½×1½X7B | INLINE | HEATING WATER | 38 | 40 | 43 | 53.4 | 1½" | 1½" | 1750 | 1 | 208/3 | ① |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

NOTES:
① PERFORMANCE BASED ON 23% PROPYLENE GLYCOL SOLUTION.

MATERIAL KEYING LEGEND


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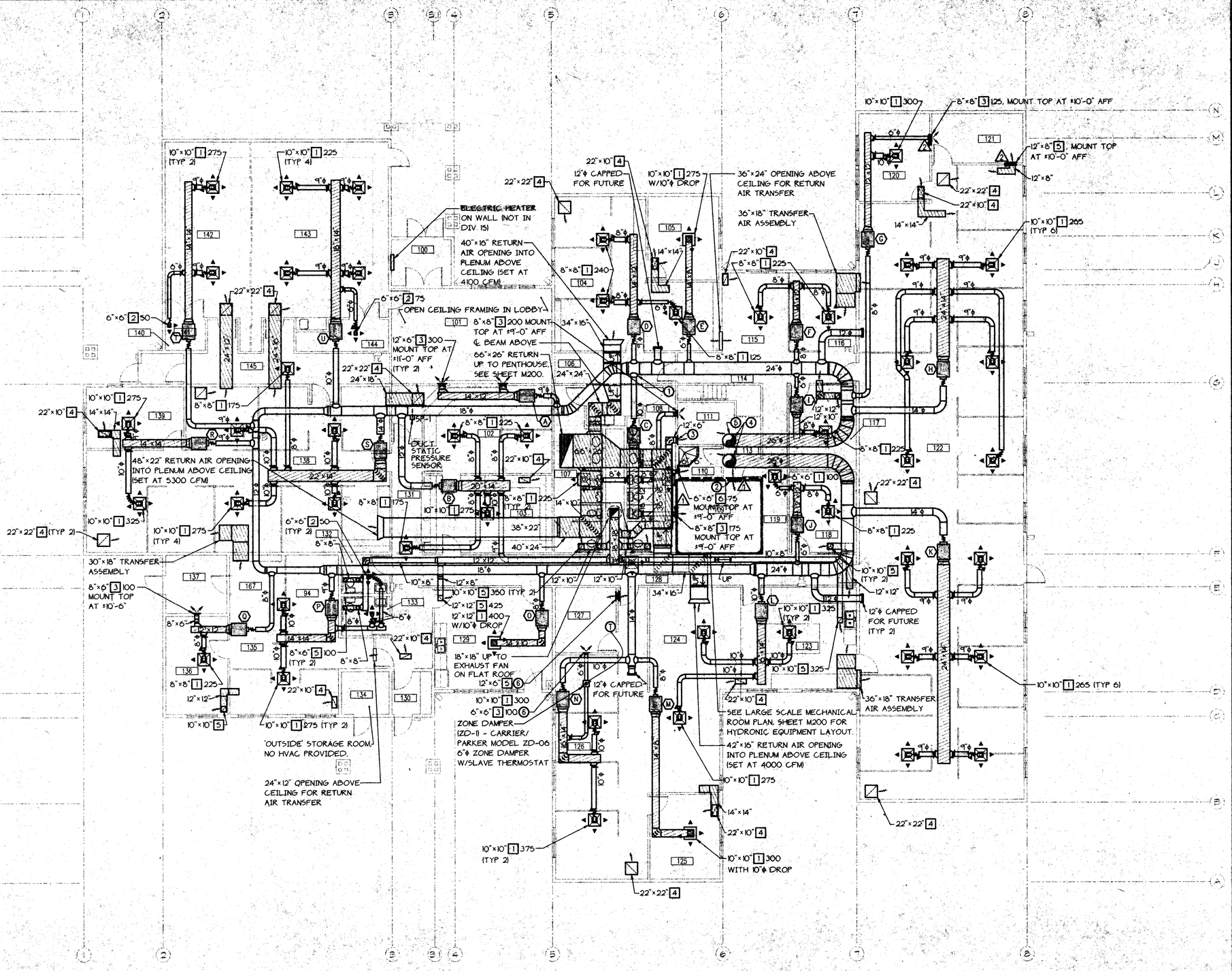
IDAHO DEPARTMENT OF LANDS
OFFICE BUILDING
DPW PROJECT #98-500  COEUR D'ALENE, IDAHO

Drawing Title: SCHEDULES - HVAC

Seal: REGISTERED PROFESSIONAL ENGINEER, STATE OF IDAHO, JAMES W. MOORE, 8-18-98

| | |
|---|---|
| Drawn: MW | Project No.: 9730 |
| Checked: AB | CAD File No.: 97025M02 |
| Reviewed: | Drawing No.: M001 |
| Date: 7-30-98 | ___ of ___ |
| Scale: NONE | |

07-29-1998 97025M02 Update-8 Rev-0 JonV




## FLOOR PLAN - HVAC

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

KREF:

## MATERIAL KEYING LEGEND

KEY NOTES:

1. ROLL OFF BOTTOM OF MAIN WITH CONICAL 45° TAP TO CLEAR BEAM AT CORRIDOR WALL.
2. 10"x10" 5 TRANSFER GRILLE EACH SIDE OF WALL WITH FIRE/SMOKE DAMPER AT WALL PENETRATION
3. 12"x8" 6 300, MOUNT TOP AT ±9'-0" AFF.
4. MITERED ELL WITH TURNING VANES
5. (2) 26"ϕ UP TO PENTHOUSE. SEE SHEET M200.
6. MOUNT TOP AT ±10'-0" AFF

GENERAL NOTES:

1. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR COORDINATION OF AIR OUTLET LOCATIONS WITH LIGHTS AND CEILING GRID WHERE APPLICABLE.
2. SEE HYDRONIC FLOOR PLAN ON SHEET M101 FOR THERMOSTAT LOCATIONS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| No. | REVISIONS/SUBMISSIONS | Date |
|---|---|---|
| 1 | REVISED | 8-14-98 |


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IDAHO DEPARTMENT OF LANDS
OFFICE BUILDING
DPW PROJECT #98-500 COEUR D'ALENE, IDAHO

Drawing Title: FLOOR PLAN - HVAC

Seal: REGISTERED PROFESSIONAL ENGINEER, STATE OF IDAHO, JAMES W. MOORE, 8-18-98

| | |
|---|---|
| Drawn: MW | Project No.: 9730 |
| Checked: AB | CAD File No.: 97025H21 |
| Reviewed | Drawing No.: M100 |
| Date: 7-30-98 | |
| Scale: AS NOTED | ___ of ___ |


08-18-1998 97025H21 Update-23 fpw-0 Scale: XRefs: ..\97025\Z-1.DWG, ..\97025\M-1.DWG

Note: Add temp. sensor on N. wall of mechanical Rm. 146 and connect to unit heater (UH-1)

1½"HWS & 1½" HWR TO HEATING COIL, SEE 2/M300

SEPARATE MINIMUM OSA & ECONOMIZER OSA DUCT CONNECTIONS AND DAMPERS AT UNIT MIXING BOX

UH-1 NEAR CEILING, SEE 3/M300

48"×36" RELIEF DOWN TO RETURN FAN

66"×26" (LINED) DOWN THRU FLOOR

48"×48" (AT TRANSITION)

(2) 26"ϕ (LINED) SUPPLY DOWN THRU TO CEILING SPACE BELOW FLOOR. SEE SHEET M100 FOR CONTINUATION.

COIL PULL ACCESS SPACE

FLOOR DRAIN. SEE PLBG PLANS FOR TYPE AND SIZE

AH-1

DM-1

DM-4

AFM-1 (1)

146

22"×26" (MIN OSA)

50"×26" (ECONOMIZER OSA)

SLOPED TOP

INSTALL DUCTS THRU WEBS OF JOIST (PROVIDE OPENINGS IN TRUSSES AS REQUIRED) - COORDINATE WITH CONTRACTOR PROVIDING TRUSSES PRIOR TO CONSTRUCTION

20"×24" (MIN OSA)

48"×24" (ECONOMIZER OSA)

24"×24"

24"×24"

OSA INTAKE LOUVER (NOT IN DIV 15) - SEE ARCHITECTURAL ELEVATIONS FOR SIZE AND LOCATION

±24" DEEP PLENUM BEHIND LOUVER - SLOPE TOP TO MATCH ROOF SLOPE

7'-0"W×4'-0"H RELIEF LOUVER (NOT IN DIV 15)

EXHAUST FAN (EF-1) 1/M400

REFRIGERANT PIPING TO DX COOLING COIL ON AH-1 1/M300

FLAT 'ROOF PIT' AREA

CONDENSING UNIT CU-1 ON RAISED PLATFORM AND ISOLATION RAIL BASE 3/M400

1½"HWS & 1½"HWR DOWN THRU FLOOR TO BOILER ROOM

±3'-0"

±10'-0"

10'-0" MIN

±12"

CONTROL PANEL SIDE

±5'-0"

3"ϕ PVC FLUE AND COMBUSTION AIR PIPE FROM WATER HEATER THRU FLAT ROOF. SECURE TO "ROOF PIT" WALL AND EXTEND ABOVE SLOPED ROOF ±24" MINIMUM. TERMINATE PER MANUFACTURERS INSTRUCTIONS.

VENT

OFFSET VENT AND COMBUSTION AIR PIPE WITH 45° FITTINGS ABOVE FLAT ROOF AS REQUIRED TO MAINTAIN SEPARATION BETWEEN VENT SYSTEMS.

VENT

8"ϕ TYPE 'B' VENT & COMBUSTION AIR PIPE FROM BOILER THRU FLAT ROOF. ATTACH STACKS TO "ROOF PIT WALL". EXTEND UP ABOVE SLOPING ROOF ±24" MIN. TERMINATE PER MANUFACTURERS INSTRUCTIONS.

MAINTAIN ±5'-0" FROM 'GABLE WALL' TO FIRST ROOF TRUSS FOR DUCT/PLENUM INSTALLATION

## PENTHOUSE PLAN - HVAC

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

XREF:

±24" DEEP PLENUM BEHIND LOUVER - SLOPE TOP TO MATCH ROOF SLOPE

INTAKE LOUVER IN ROOF GABLE END WALL

TRUSSES

COORDINATE SPACE BETWEEN GABLE END WALL AND FIRST TRUSS FOR OSA DUCTWORK AND PLENUM INSTALLATION

BELLMOUTH FITTING (TYP BOTH SUPPLY CONNECTIONS)

AFM-1

PROVIDE INTERNAL DAMPERS ON OSA AND RELIEF

DM-3

17'-0" CLEAR FOR DOOR CLEARANCE

SUPPLY FAN

INLET PLENUM

COOLING COIL

20" ACCESS

PREHEAT COIL

FINAL FILTER

PRE-FILTER

MIXING BOX

RETURN FAN

PLENUM

8" RAIL BASE

DM-2

AH-1

±3'-6"

## SECTION

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

XREF:

1½"HWS & 1½"HWR UP TO AH-1 HEATING COIL IN PENTHOUSE

WATER HEATER, SEE PLUMBING PLANS

TEMPERATURE CONTROL PANEL ON WALL

3" PVC VENT & COMBUSTION AIR PIPES UP TO FLAT ROOF ABOVE

INLINE PUMPS 4/M300

P-1

P-2

109

VENT

ET-1

¾"

2"

30" MIN

INLINE AIR SEPARATOR/ ELIMINATOR

P-3

±18"

1½"HWS & 1½"HWR TO VAV BOXES, SEE SHEET M101 FOR CONTINUATION

GLYCOL TANK/PUMP ASSEMBLY

8"

8"ϕ TYPE 'B' VENT AND SINGLE WALL COMBUSTION AIR PIPE UP TO FLAT ROOF ABOVE

NOTE:
SEE HEATING WATER SYSTEM DIAGRAM #4 ON SHEET M300 FOR ADDITIONAL PIPING AND EQUIPMENT

## BOILER RM PLAN - MECHANICAL

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

XREF:

## MATERIAL KEYING LEGEND

KEY NOTES:

(1) AIRFLOW MONITORING STATION (AFM-1) SHALL BE EQUAL TO AIR MONITOR CORP MODEL DAMD, 20"W×24"H, 1100 FPM VELOCITY, <0.01" SP. INSTALL PER MANUFACTURERS INSTRUCTIONS, MINIMUM 10' FROM AH-1 MIXING BOX CONNECTION POINT.

(2) UNIT HEATER UH-1 SHALL BE EQUAL TO TRANE MODEL 38-S, HORIZONTAL DISCHARGE, 545 CFM, 14.3 MBH AT 20° WTD, 1.5 GPM AT 0.05" PD, 1/20 HP, 120V/1Ø.

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| No. | REVISIONS/SUBMISSIONS | Date |
|---|---|---|
| 1 | REVISED | 8-14-98 |

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IDAHO DEPARTMENT OF LANDS
OFFICE BUILDING

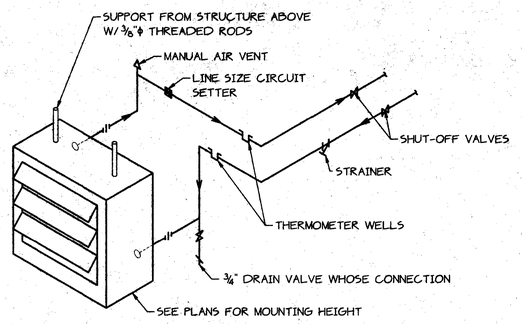
DPW PROJECT #98-500 COEUR D'ALENE, IDAHO

Drawing Title: LARGE SCALE PLANS/SECTIONS - MECHANICAL

Seal: REGISTERED PROFESSIONAL ENGINEER, STATE OF IDAHO, JAMES W. MOORE, 6-12-98

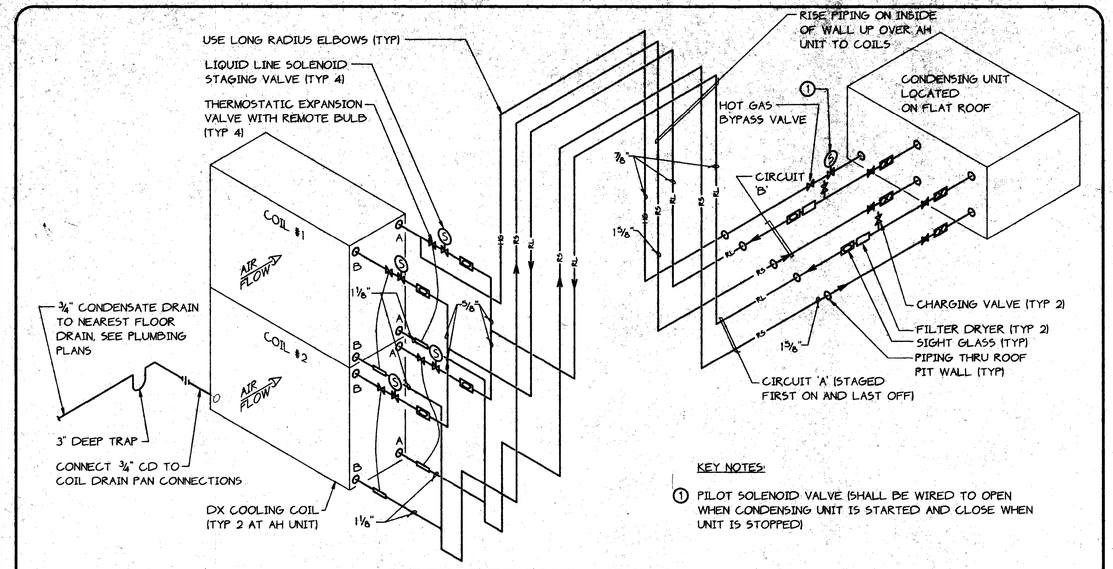
| | |
|---|---|
| Drawn: MW | Project No.: 9730 |
| Checked: AB | CAD File No.: 97025H31 |
| Reviewed: | Drawing No.: M200 |
| Date: 7-30-98 | |
| Scale: AS NOTED | |

of




## HOT WATER PROP UNIT HEATER (3)

NOT TO SCALE XREF: 05-0010

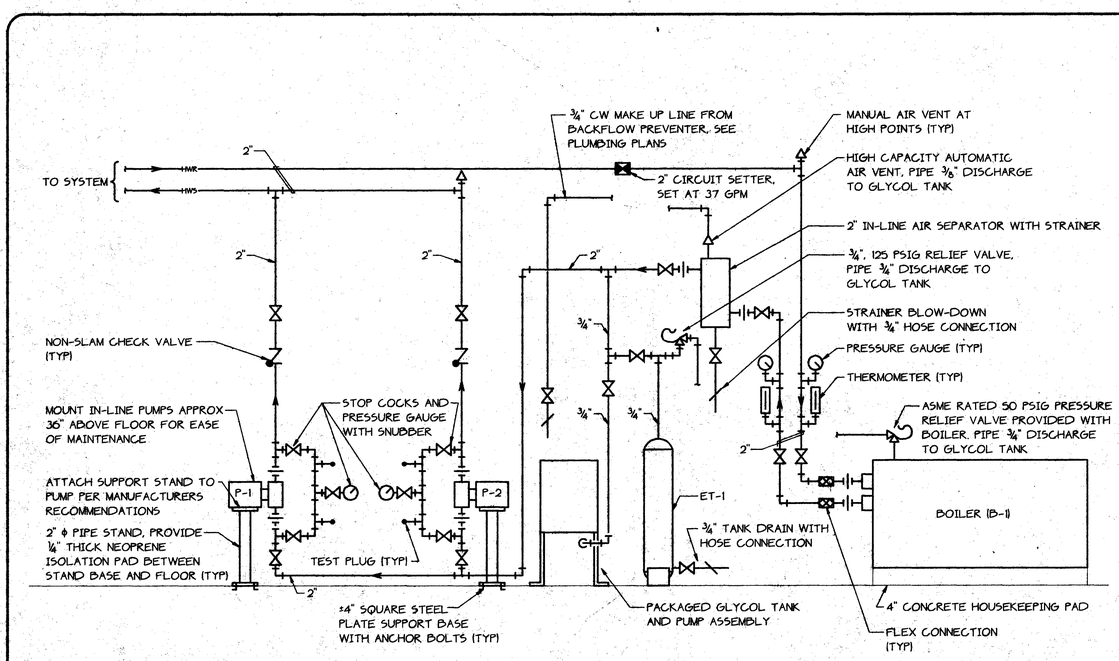



KEY NOTES:

(1) PILOT SOLENOID VALVE (SHALL BE WIRED TO OPEN WHEN CONDENSING UNIT IS STARTED AND CLOSE WHEN UNIT IS STOPPED)

## REFRIGERANT PIPING (1)

NOT TO SCALE XREF: 05-0053

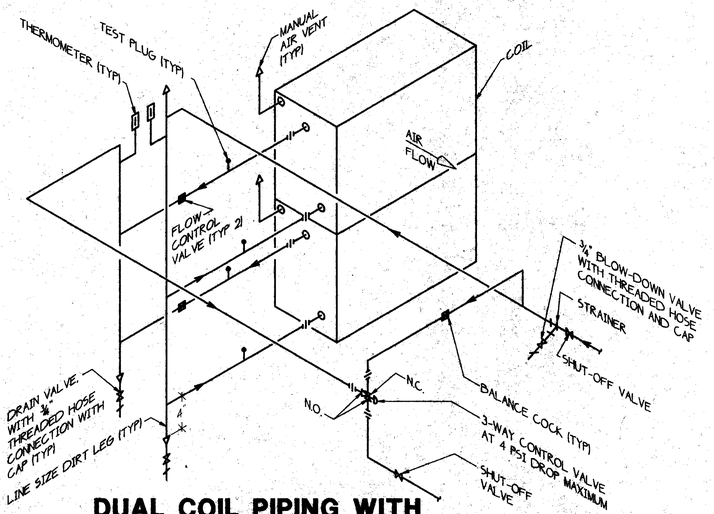



## HEATING WATER SYSTEM PIPING DIAGRAM (4)

NOT TO SCALE XREF:

NOTES:

1. THIS PIPING ARRANGEMENT DEPICTS A HEATING COIL. CONTRACTOR SHALL INSTALL CHILLED WATER VALVE TO REVERSE N.O. AND N.C. VALVE PORTS SO THAT UPON VALVE FAILURE, THERE IS NO FLOW THROUGH THE COIL.
2. PIPE SUPPLY WATER TO LEAVING AIR SIDE OF COIL AND RETURN TO ENTERING SIDE OF COIL.
3. PIPE COOLING COIL CONDENSATE AND SECONDARY OVERFLOW TO NEAREST DRAIN. PROVIDE A TRAP IN ACCORDANCE WITH THE SPECIFICATIONS.




## DUAL COIL PIPING WITH 3-WAY VALVE AT AH UNIT (2)

NOT TO SCALE XREF:

MATERIAL KEYING LEGEND

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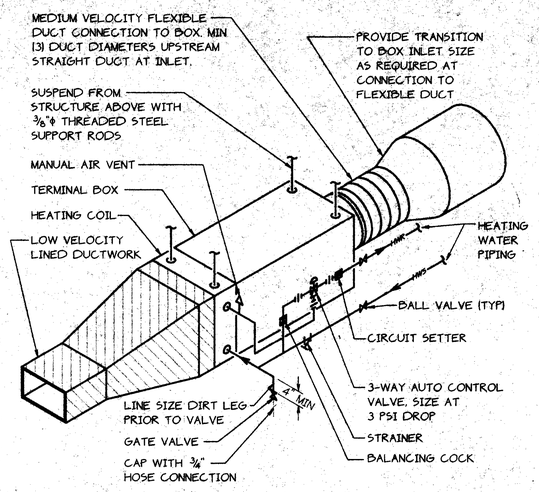
OFFICE BUILDING
DPW PROJECT #98-500 COEUR D'ALENE, IDAHO

Drawing Title: DETAILS - MECHANICAL

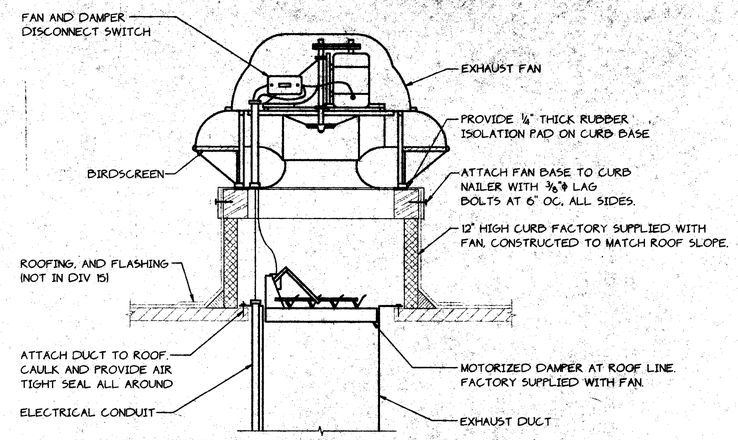
Seal: REGISTERED PROFESSIONAL ENGINEER STATE OF IDAHO JAMES W. MOORE 8-18-98

| | |
|---|---|
| Drawn MW | Project No. 9730 |
| Checked AB | CAD File No. 97025H81 |
| Reviewed | Drawing No. M300 |
| Date 7-30-98 | |
| Scale AS NOTED | ___ of ___ |



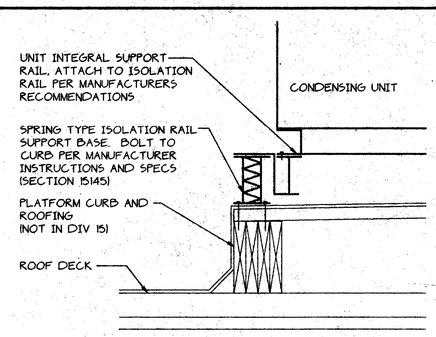

## TERMINAL BOX

NOT TO SCALE XREF: D5-0071 (2)



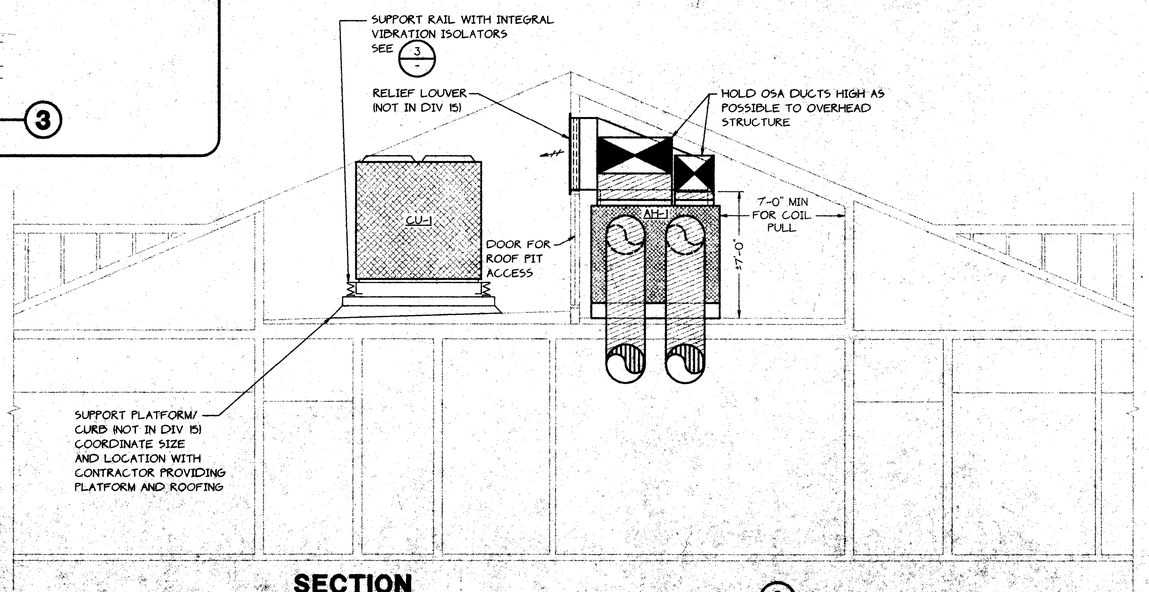

## ROOFTOP EXHAUST FAN

NOT TO SCALE XREF: D3-0131 (1)




## CONDENSING UNIT SUPPORT

NOT TO SCALE XREF: A-CUS (3)




## SECTION

SCALE: 1/4" = 1'-0" XREF: (A)

## MATERIAL KEYING LEGEND

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| No. | REVISIONS/SUBMISSIONS | Date |
|---|---|---|
| 1 | REVISED | 8-14-98 |

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IDAHO DEPARTMENT OF LANDS
OFFICE BUILDING
DPW PROJECT #98-500 COEUR D'ALENE, IDAHO

Drawing Title: SECTIONS AND DETAILS - MECHANICAL

Seal: REGISTERED PROFESSIONAL ENGINEER STATE OF IDAHO JAMES W. MOORE 8-18-98

| | |
|---|---|
| Drawn: MW | Project No.: 9730 |
| Checked: AB | CAD File No.: 97025H41 |
| Reviewed: | Drawing No.: M400 |
| Date: 7-30-98 | |
| Scale: AS NOTED | ___ of ___ |

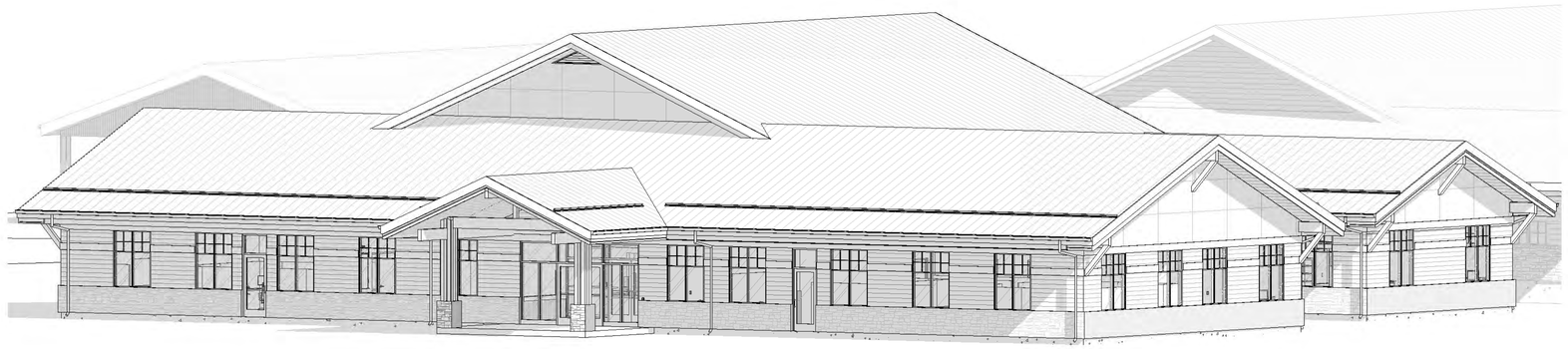
EXHIBIT "B"

*IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500*

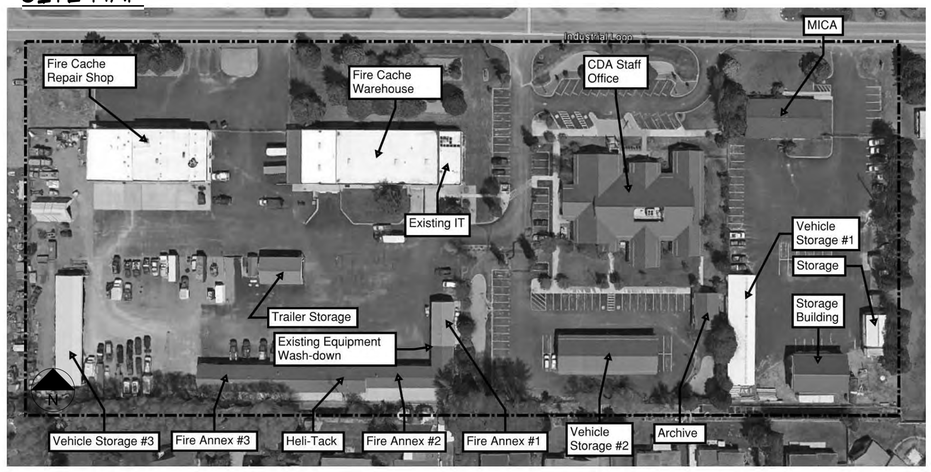
# DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE

3284 INDUSTRIAL LOOP, COEUR D'ALENE, IDAHO 83815

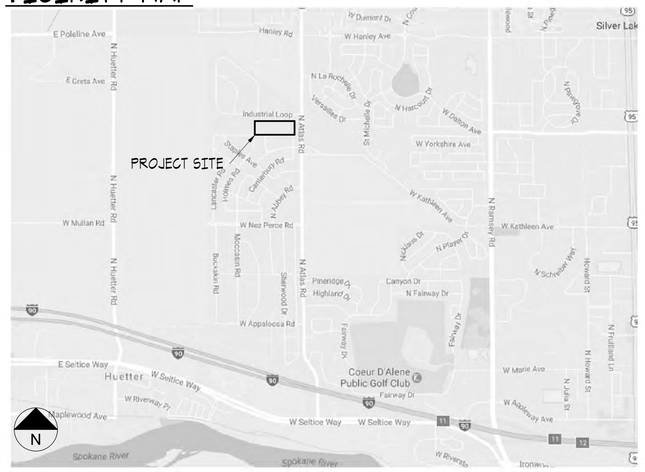
JOB NUMBER: **1658**



## SITE MAP




## VICINITY MAP

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- A1.01 CODE ANALYSIS
- A1.02 ARCHITECTURAL COM CHECK

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- C0.02R DRAWING MANAGEMENT
- C0.03R GENERAL SYMBOLS
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- C2.01R SEWERLINE SERVICE PLAN AND PROFILE
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- C5.04R STANDARD DETAILS

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## RECORD DRAWINGS

DATE: **08.27.2018**

PROJECT PHASE: **CLOSEOUT**

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Authorization to Bid
Demo Mica Area Office and Expand Coeur d'Alene Office
DPW Project No/Title: 17500
Agency Signature Authority
5/24/17 Administrator of Public Works
TSW 5.24.17

# ABBREVIATIONS

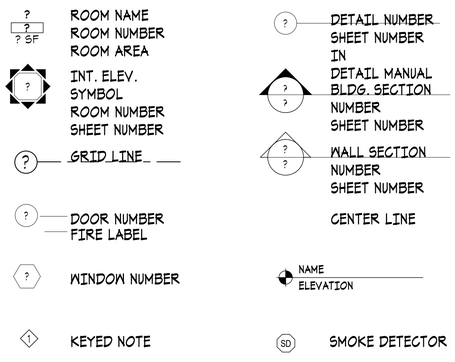
| | |
|---|---|
| **A** | |
| AB | ANCHOR BOLT |
| AC | ACOUSTICAL |
| ACC | ACCESSABLE |
| ADD | ADDITIVE |
| ADJ | ADJUSTABLE |
| ADMIN | ADMINISTRATION OR ADMINISTRATIVE |
| ADR | AREA DRAIN |
| AFF | ABOVE FINISH FLOOR |
| AG | ACOUSTICAL GLAZING |
| AGG | AGGREGATE |
| ALT | ALTERNATE |
| ALUM | ALUMINUM |
| ANOD | ANODIZED |
| AP | ACCESS PANEL |
| APPROX | APPROXIMATE |
| ARCH | ARCHITECT (URAL) |
| ASPH | ASPHALT |
| ASST | ASSISTANT |
| AT | ACOUSTICAL TILE NRC .85 |
| AV | AUDIO VISUAL |
| AWP | ACOUSTICAL WALL PANEL |
| **B** | |
| BD | BOARD |
| BKPL | BACK PLATE |
| BLDG | BUILDING |
| BLK | BLOCK |
| BLKG | BLOCKING |
| BM | BEAM |
| B.O.S. | BOTTOM OF STRUCTURE |
| BOT | BOTTOM |
| BPL | BASEPLATE |
| BR | BULLET RESISTANT |
| BRG | BEARING |
| BRGL | BULLET RESISTANT GLASS |
| BRK | BRICK |
| BS | BACKSPLASH |
| BSMT | BASEMENT |
| BVL | BEVEL (ED) |
| **C** | |
| C | CHANNEL |
| CAB | CABINET |
| CB | CATCH BASIN |
| C/C | CENTER TO CENTER |
| CCTV | CLOSED CIRCUIT TELEVISION |
| CFCI | CONTRACTOR FURNISHED CONTRACTOR INSTALLED |
| CH | CLOTHES HOOK |
| CHBD | CHALKBOARD |
| CHDF | CHILLER DRINKING FOUNTAIN |
| CIPC | CAST-IN-PLACE CONCRETE |
| CLG | CEILING |
| CLR | CLEAR |
| CMU | CONCRETE MASONRY UNIT |
| CO | CLEANOUT |
| COL | COLUMN |
| CONC | CONCRETE |
| CONF | CONFERENCE |
| CONN | CONNECT (ED) |
| CONST | CONSTRUCTION |
| CONT | CONTRACTOR |
| CORR | CORRIDOR |
| CP | CEMENT PLASTER |
| CP2 | 2x2 LAY-IN CEILING PANELS |
| CP4 | 2x4 LAY-IN CEILING PANELS |
| CPT | CARPET |
| CRS | COLD ROLLER STEEL |
| CRT | COMPUTER TERMINAL |
| CT | CERAMIC TILE |
| CTT | CERAMIC TILE THINSET |
| CTR | CENTER |
| **D** | |
| DBL | DOUBLE |
| DEMO | DEMOLITION |
| DEPT | DEPARTMENT |
| DET | DETAIL |
| DF | DRINKING FOUNTAIN |
| DIAG | DIAGONAL |
| DIAM | DIAMETER |
| DIM | DIMENSION |
| DISP | DISPENSER |
| DMPR | DAMPROOFING |
| DN | DOWN |
| DS | DOWNSPOUT |
| DWG | DRAWING |

| | |
|---|---|
| **E** | |
| E | EAST |
| EA | EACH |
| EC | ELECTRICAL CONTRACTOR |
| EFM | ENTRY FLOOR MAT |
| EJ | EXPANSION JOINT |
| EL | ELEVATION |
| ELEC | ELECTRICAL |
| ELEV | ELEVATION OR ELEVATOR |
| ENAM | ENAMEL |
| EP | ELECTRICAL PANEL |
| EPT | EPOXY PAINT |
| EQ | EQUAL |
| EQUIP | EQUIPMENT |
| ES | EACH SIDE |
| EW | EACH WAY |
| EX | EXISTING TO REMAIN |
| EXP | EXPOSED |
| EXT | EXTERIOR |
| EIFS | EXTERIOR INSUL. & FINISH SYSTEM |
| **F** | |
| FA | FIRE ALARM |
| FD | FLOOR DRAIN |
| FX | FIRE EXTINGUISHER |
| FXCAB | FIRE EXTINGUISHER CABINET |
| FEM | FEMININE |
| FF | FACTORY FINISH |
| FFD | FUNNEL FLOOR DRAIN |
| FH | FIRE HYDRANT |
| FIN | FINISH |
| FLR | FLOOR |
| FLSH | FLASH OR FLASHING |
| FLUOR | FLUORESCENT |
| FDN | FOUNDATION |
| FOC | FACE OF CONCRETE OR FACE OF COLUMN |
| FOS | FACE OF STUD |
| FRG | FIRE RATED GLASS |
| FT | FEET OR FOOT |
| FTG | FOOTING |
| FUR | FURRED OR FURRING |
| **G** | |
| GA | GAUGE |
| GALV | GALVANIZED |
| GAT | 12 x 12 GLUE ON ACOUSTIC TILE |
| GB | GLASS BOARD |
| GC | GENERAL CONTRACTOR |
| GL | GLASS OR GLAZED |
| GP | GYPSUM PLASTER |
| GR | GRADE |
| GWB | GYPSUM WALL BOARD |
| **H** | |
| HB | HOSE BIB |
| HC | HOLLOW CORE |
| HDCP | HANDICAP (PED) |
| HDW | HARDWARE |
| HM | HOLLOW METAL |
| HORIZ | HORIZONTAL |
| HR | HOUR |
| HT | HEIGHT |
| HVAC | HEATING/VENTILATING/ AIR CONDITIONING |
| HWH | HOT WATER HEATER |
| **I** | |
| ID | INSIDE DIAMETER |
| IGU | INSULATING GLASS UNIT |
| INCL | INCLUDE (D)/(ING) |
| INFO | INFORMATION |
| INSUL | INSULATION |
| INT | INTERIOR |
| INV | INVERT |
| IRL | IMPACT RESISTANT LAY-IN (ROCK FACE PANELS) |
| **J** | |
| JAN | JANITOR |
| JT | JOINT |
| **K** | |
| K | KIPS OR 1000 POUNDS |
| KP | KICKPLATE |
| KSI | KIPS PER SQUARE INCH |
| **L** | |
| LAM | LAMINATE |
| LAV | LAVATORY |
| LB | POUND OR LAG BOLT |
| LBS | POUNDS |
| LG2 | LAMINATED - CLEAR SAFETY GLASS 1/2" THICK |
| LG4 | LAMINATED - CLEAR SAFETY GLASS 1/4" THICK |
| LH | LEFT HAND |
| LT | LIGHT |
| LVR | LOUVER |

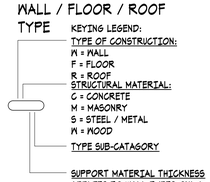
| | |
|---|---|
| **M** | |
| MANUF | MANUFACTURED |
| MAT | MATERIAL |
| MAX | MAXIMUM |
| MB | MACHINE BOLT |
| MDO | MEDIUM DENSITY OVERLAY |
| M/E | MECHANICAL/ELECTRICAL |
| MECH | MECHANICAL |
| MED | MEDIUM |
| MEMB | MEMBRANE |
| MFG | MANUFACTURING |
| MFR | MANUFACTURER |
| MH | MANHOLE |
| MI | MIRROR |
| MIN | MINIMUM |
| MISC | MISCELLANEOUS |
| MO | MASONRY OPENING |
| MTL,MET | METAL |
| **N** | |
| N | NORTH |
| NIC | NOT IN CONTRACT |
| NO. OR # | NUMBER |
| NOM | NOMINAL |
| NTS | NOT TO SCALE |
| **O** | |
| OA | OVERALL |
| OC | ON CENTER |
| OD | OVERFLOW DRAIN OR OUTSIDE DIAMETER |
| OFCI | OWNER FURNISHED CONTRACTOR INSTALLED |
| OFF | OFFICE |
| OFOI | OWNER FURNISHED OWNER INSTALLED |
| OPG | OPENING |
| OPH | OPPOSITE HAND |
| OPP | OPPOSITE |
| OWA | ONE WAY/ACOUSTICAL (TRANSPARENT MIRROR) |
| OVHD | OVERHEAD |
| **P** | |
| PAV | PAVERS |
| PB | PLASTER BASE |
| PBD | PARTICLE BOARD |
| PCC | PRECAST CONCRETE |
| PG | PLATE GLASS (CLEAR FLOAT GLASS) |
| PL | PROPERTY LINE OR PLASTIC LAMINATE |
| PLYWD | PLYWOOD |

| | |
|---|---|
| **P** | |
| PSF | POUNDS PER SQUARE FOOT |
| PSI | POUNDS PER SQUARE INCH |
| PT | PAINT (ED) |
| PTD | PAPER TOWEL DISPENSER |
| PTR | PAPER TOWEL RECEPTACLE |
| PVC | POLYVINYL CHLORIDE |
| **Q** | |
| QB | QUARRY TILE BASE |
| QT | QUARRY TILE |
| QTY | QUANTITY |
| **R** | |
| R | RADIUS OR RISER |
| RA | RETURN AIR |
| RB4 | 4" RUBBER BASE |
| RB6 | 6" RUBBER BASE |
| RD | ROOF DRAIN |
| REF | REFERENCE |
| REFL | REFLECTED |
| REFER | REFRIGERATOR |
| REINF | REINFORCING |
| REQ'D | REQUIRED |
| RESIL | RESILIENT |
| REV | REVISION |
| RM | ROOM |
| RO | ROUGH OPENING |
| RSV | RESILIENT SHEET VINYL |
| RWF | RESILIENT WOOD FLOOR |
| **S** | |
| S | SOUTH |
| SAF | SELF ADHERING FLASHING |
| SC | SOLID CORE |
| SCHED | SCHEDULE |
| SD | SOAP DISPENSER OR STORM DRAIN |
| SEAL | SEALER |
| SH | SAFETY CLOTHES/TOWEL HOOK |
| SHM | SECURITY HOLLOW METAL |
| SHT | SHEET |
| SIM | SIMILAR |
| S & L | STAIN & LACQUER |
| SP | SPEAKER |
| SPECS | SPECIFICATIONS |
| SQ | SQUARE |
| SRV | SLIP RESISTANT SHEET VINYL |
| S/S | STAINLESS STEEL |
| STD | STANDARD |

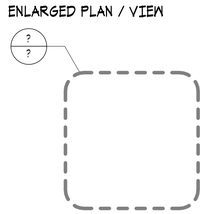
# SYMBOLS



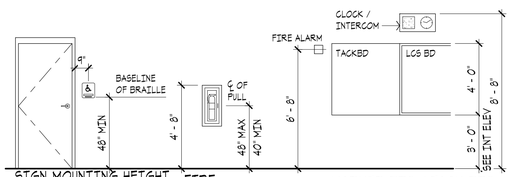

WALL / FLOOR / ROOF TYPE




ENLARGED PLAN / VIEW



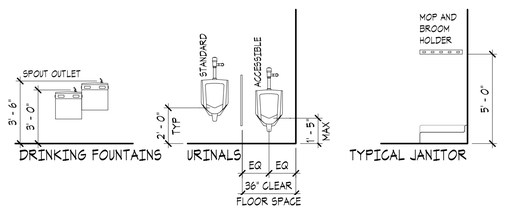
## TYPICAL MOUNTING HEIGHT




SIGN MOUNTING HEIGHT PER ANSI A117.1 2009 703.3.10 / 703.3.11

FIRE EXTINGUISHER

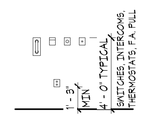
MARKER BDS / TACK BDS



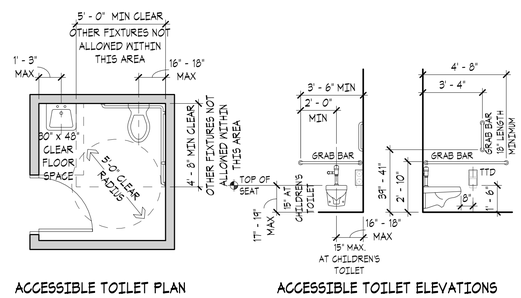

DRINKING FOUNTAINS

URINALS

TYPICAL JANITOR

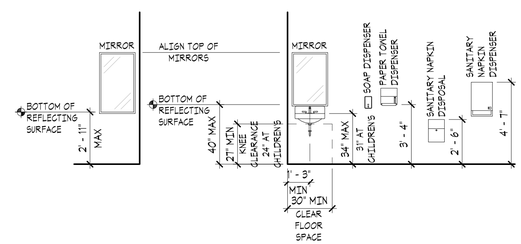



## ADA TOILET REQ'S




ACCESSIBLE TOILET PLAN

ACCESSIBLE TOILET ELEVATIONS




TYPICAL MIRROR

TYPICAL LAVATORY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05.05.2017


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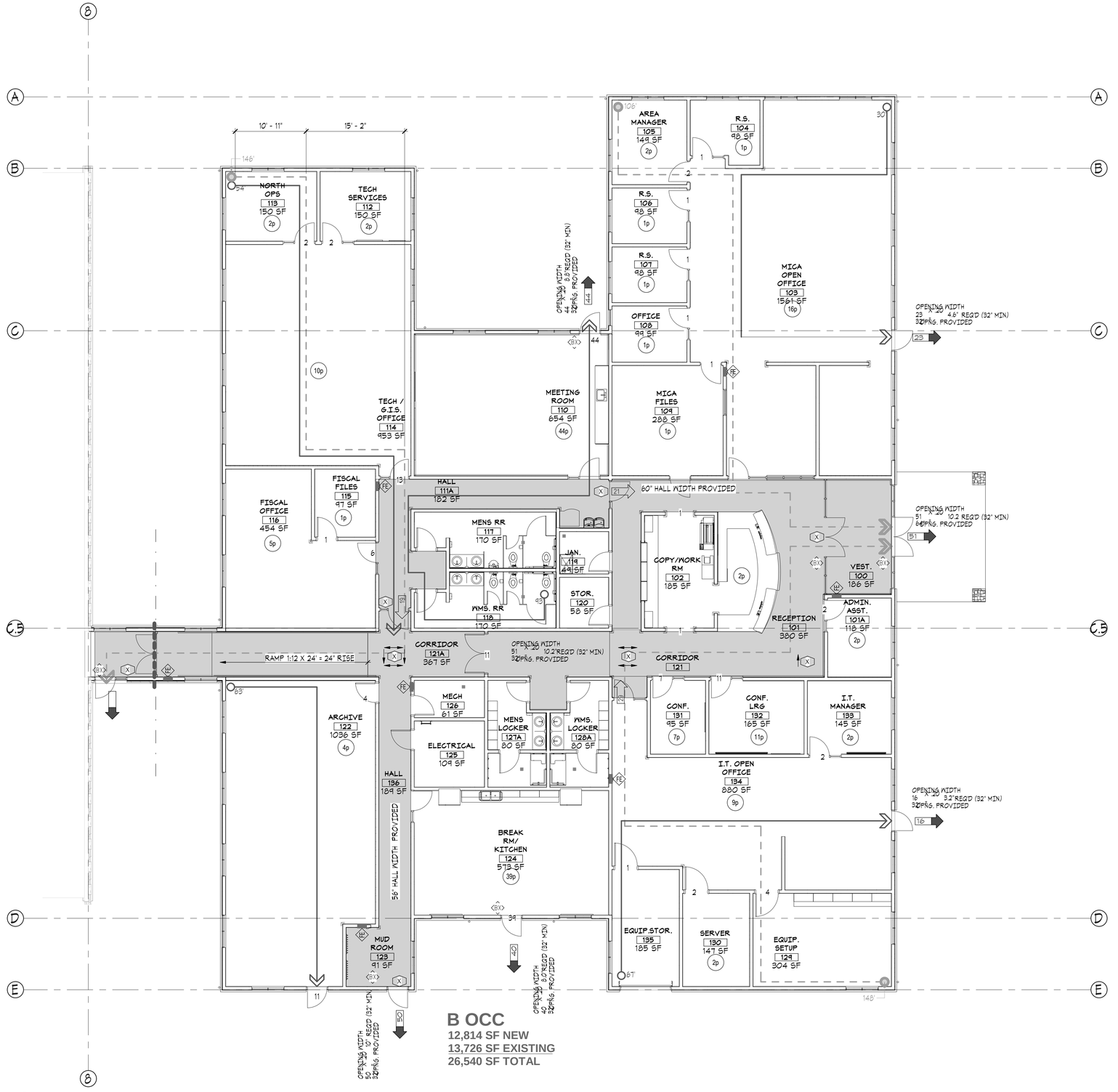
# IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500
## DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE
## 3284 INDUSTRIAL LOOP, COEUR D'ALENE, IDAHO 83815

ABBREVIATIONS / SYMBOLS / MOUNTING HEIGHTS / ADA REQ'S

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | SJR/GMJ |
| DRAWN BY | RF / RM |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | |
| REVISION | RECORD SET |
| SHEET NO. | |

A0.01




## CODE PLAN

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

# CODE ANALYSIS

**CODE ANALYSIS - IBC 2012**

DATE: 01.31.17
JOB NO.: 1658
PROJECT: IDAHO DEPARTMENT OF LANDS
LOCATION: COEUR D'ALENE ID, 83814

**BUILDING AREAS:** NEW

**OCCUPANCY:** "B"
**TYPE OF CONSTRUCTION:** VB - NON SPRINKLERED

**FIRE RESISTANCE RATING REQUIREMENTS:**

- TABLE 601
  BUILDING ELEMENTS: NR
- TABLE 602
  EXTERIOR WALLS: 1 HR < 10' - NR ELSEWHERE

**OPENINGS IN EXTERIOR WALLS:**

- TABLE 705.8 (SEE TABLE FOR ALLOWABLE AREAS)

  10' < 15' UNPROTECTED 15%
  15' < 20' UNPROTECTED 25%
  20' < 25' UNPROTECTED 45%

**ALLOWABLE HEIGHT:** **ACTUAL HEIGHT:**

- TABLE 503
  HEIGHT IN FEET 40' 33' TO RIDGE
- TABLE 503
  NUMBER OF STORIES: 2 1

**ALLOWABLE BUILDING AREA:** **MULTI-STORY AREA**

- TABLE 503 BASIC 9000

- IBC 506.2
  FRONTAGE INCREASE

  If = [F/P-0.25] W/30
  = [586/574-0.25] 30/30
  = 0.74 N/A

- IBC 506.1
  ALLOWABLE AREA CALC

  As = At+[At x If] + [At x Is]
  = 9000 + [9000 x 0.74]
  = 15,660 SF N/A

- IBC 507
  UNLIMITED AREA
  N/A

**ACTUAL BUILDING AREA**

| | |
|---|---|
| BASEMENT | N/A |
| 1ST FLOOR (NEW) | 12,814SF |
| (E) | 13,726SF |
| TOTAL (FIRE AREA) | 26,540SF |

**REQUIRED FIRE FLOW - IFC 2012**
TABLE B105.1 W/REDUCTION PER B105.2 EXCEPTION.
4500 GPM X (REDUCTION) = 4500 GPM FOR 26,540SF

PLUMBING FIXTURE ANALYSIS:

TABLE 2902.1 22+22+16+34+4+19+44

GROUP B - 173

| | REQUIRED | PROVIDED |
|---|---|---|
| MALE - 87 | | |
| WATER CLOSETS 1:25/+1:50 | 2.74 | 2 |
| URINALS | 0 | 1 |
| LAVS 1:40/+1:80 | 2.09 | 4 |
| FEMALE - 87 | | |
| WATER CLOSETS 1:25/+1:50 | 2.74 | 3 |
| LAVS 1:40/+1:80 | 2.09 | 4 |
| | REQUIRED | PROVIDED |
| DRINKING FOUNTAINS | 173 @ 1:100 1.73 | 2 |
| SERVICE SINK | 1 | 1 |

# CODE ANALYSIS LEGEND IBC 2012

B OCC
52,386 SF

- OCCUPANCY GROUP (IBC 2012)
- AREA (SQUARE FEET)

OPENING WIDTH
OCC X .20 =
00" PROVIDED

- CORRIDOR: 44" MINIMUM PER IBC 1018.2

STAIR WIDTH
OCC X .30 = REQ'D
00" PROVIDED

- STAIR: 44" MINIMUM PER IBC 1009.4

OPENING WIDTH
OCC X .20 REQ'D
00" PROVIDED

- EXIT: EXITING WIDTH 32" MIN. PER IBC 1008.1.1

- # = NUMBER OF OCCUPANTS EXITING THROUGH DOOR
- # = TOTAL NUMBER OF OCCUPANTS EXITING INTO ADJOINING ROOM OR AREA
- # = TOTAL NUMBER OF OCCUPANTS EXITING THROUGH DESIGNATED EXTERIOR EXITING DOOR
- # = NUMBER DOES NOT COUNT TOWARD OCC LOAD
- X = EXIT SIGN LOCATION
- FE = FIRE EXTINGUISHER LOCATION
- BX = BRAILLE EXIT SIGN PER IBC 1011.4
- OL = XXX = OCCUPANT LOAD SIGN PER IBC 1004.9
- 2-HOUR FIRE WALL / HORIZONTAL EXIT
  NON-RATED CORRIDOR PER I.B.C. TABLE 1018.1
- 200' 1016.2 MAXIMUM TRAVEL DISTANCE: 200' FOR A-3 OCC 300' FOR 'B' OCC
- 75' 1014.3 MAXIMUM COMMON PATH OF EGRESS TRAVEL: 75' FOR "B" OCC > 30 OCC 100' FOR "B" OCC ≤ 30

# INSPECTION & TESTING REQUIREMENTS

INSPECTION & TESTING REQUIREMENTS

Note that testing and inspections are required for but not limited to the following:

Civil:
1. Utility trenches compaction tests.
2. Water mains and services:
3. Materials inspections.
4. Pressure tests.
5. Disinfection and bacteriological tests.
3. Sewer piping pressure tests.

Sitework:
1. Compaction testing for sub grade, base course, asphalt.
2. Concrete compressive strength.
3. Swale basin infiltration testing.

Structural:
1. Fabrication Shop inspection.
2. Soils & foundation construction:
3. Periodic inspection of soils earthwork per IBC Table 1705.6:
4. Footing soil bearing surfaces prior to placing any reinforcing steel.
5. Excavation depth and bearing layer prior to placing any reinforcing steel.
6. Compacted fill material classification.
7. Subgrade preparation prior to filling.
8. Continuous inspection per IBC Table 1705.6:
9. Filling operations.
10. Compacted fill density testing of each lift.
11. Structural steel:
12. Verify Fabricator and Erector Quality Control Program per AISC 360-10 Section N2.
13. Visual Welding Inspection of welds by both QC and QA personnel shall be per tables listed in AISC 360 Section N5.
14. Inspection Tasks for Welding.
15. Nondestructive Testing (NDT) of welds.
16. Inspection Tasks for Bolting.
17. Additional Inspection tasks per AISC 360-10 Section N5.1.
18. Inspection for Composite Construction.
19. Wood construction:
20. Periodic inspection requirements:
21. Shear walls.
22. Diaphragms.
23. Moisture content.
24. Proper bottom plate sizes.
25. Roof truss hurricane clips.
26. Post-installed anchors to concrete and masonry.
27. Geotechnical subgrade inspection.
28. Concrete mix designs.
29. Concrete strength testing.

Mechanical:
1. Duct and gas piping rough-in inspection.
2. Duct air pressure test.
3. Gas piping pressure test.
4. Gas meter unlock inspection.

Plumbing:
1. Materials inspection.
2. Rough in inspection.
3. Water and sewer piping air pressure test.
4. Clean and flush water piping.

Electrical:
1. Fire alarm test.
2. Feeder cables test.
3. Ground rod test.

Note: The list above may not be all-inclusive. The contractor shall be responsible to coordinate and schedule **all** inspection and testing required by the construction documents.

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# IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500

## DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE

## 3284 INDUSTRIAL LOOP, COEUR D'ALENE, IDAHO 83815

CODE ANALYSIS

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | SJR/GMJ |
| DRAWN BY | RF / RM |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | |
| REVISION | RECORD SET |
| SHEET NO. | A1.01 |

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# COMcheck Software Version COMcheck-Web
# Envelope Compliance Certificate

## Project Information

| | |
|---|---|
| Energy Code: | 2012 IECC |
| Project Title: | IDL Mica and CDA Offices |
| Location: | Coeur d'Alene, Idaho |
| Climate Zone: | 5b |
| Project Type: | Addition |
| Vertical Glazing / Wall Area: | 22% |

Construction Site:
3284 Industriaul Loop
Coeur d Alene, Idaho 83815

Owner/Agent:
Margie Kennedy
Idaho DPW
502 N. 4th Street, P.O. Box 83720
Boise, Idaho 83720
208-332-1917
margie.kennedy@adm.idaho.gov

Designer/Contractor:
Steve Roth
Architects West
210 E. Lakeside Ave.
Coeur d Alene, Idaho 83814
208-667-9402
stever@architectswest.com

| Building Area | Floor Area |
|---|---|
| 1-Office : Nonresidential | 12814 |

## Envelope Assemblies

| Assembly | Gross Area or Perimeter | Cavity R-Value | Cont. R-Value | Proposed U-Factor | Budget U Factor(a) |
|---|---|---|---|---|---|
| Floor: Unheated Slab-On-Grade, Vertical 2 ft., [Bldg. Use 1 - Office] (d) | 594 | --- | 0.0 | 0.730 | 0.540 |
| Ext. Wall - West Wood Siding - South: Other Wood Framed Wall, [Bldg. Use 1 - Office] (b) | 384 | --- | --- | 0.042 | 0.064 |
| Window typ of (4): Wood Frame: Fixed, Perf. Specs.: Product ID Pella Wood Window, SHGC 0.40, PF 0.50, [Bldg. Use 1 - Office] (c) | 128 | --- | --- | 0.350 | 0.380 |
| Ext. Wall - West Wood Siding - North: Other Wood Framed Wall, [Bldg. Use 1 - Office] (b) | 568 | --- | --- | 0.042 | 0.064 |
| Window - typ of (6): Wood Frame: Fixed, Perf. Specs.: Product ID Pella Wood Window, SHGC 0.40, PF 0.50, [Bldg. Use 1 - Office] (c) | 192 | --- | --- | 0.350 | 0.380 |
| Ext. Wall - West Stone: Other Wood Framed Wall, [Bldg. Use 1 - Office] (b) | 353 | --- | --- | 0.041 | 0.064 |
| Ext. Wall - North Stone - West: Other Wood Framed Wall, [Bldg. Use 1 - Office] (b) | 90 | --- | --- | 0.041 | 0.064 |
| Ext. Wall - North Stone - Center: Other Wood Framed Wall, [Bldg. Use 1 - Office] (b) | 90 | --- | --- | 0.041 | 0.064 |
| Ext. Wall - North Stone - East: Other Wood Framed Wall, [Bldg. Use 1 - Office] (b) | 132 | --- | --- | 0.041 | 0.064 |
| Ext. Wall - North Wood Siding West: Other Wood Framed Wall, [Bldg. Use 1 - Office] (b) | 370 | --- | --- | 0.042 | 0.064 |
| Window - Typ of (2): Wood Frame: Fixed, Perf. Specs.: Product ID Pella Wood Window, SHGC 0.40, PF 0.50, [Bldg. Use 1 - Office] (c) | 64 | --- | --- | 0.350 | 0.380 |
| Ext. Wall - North Wood Siding Center: Other Wood Framed Wall, [Bldg. Use 1 - Office] (b) | 240 | --- | --- | 0.042 | 0.064 |



| Assembly | Gross Area or Perimeter | Cavity R-Value | Cont. R-Value | Proposed U-Factor | Budget U-Factor(a) |
|---|---|---|---|---|---|
| Window - Typ of (2): Wood Frame: Fixed, Perf. Specs.: Product ID Pella Wood Window, SHGC 0.40, PF 0.50, [Bldg. Use 1 - Office] (c) | 64 | --- | --- | 0.350 | 0.380 |
| Door: , Perf. Specs.: Product ID Alum. Entrance Door, SHGC 0.40, PF 0.50, [Bldg. Use 1 - Office] (c) | 21 | --- | --- | 0.600 | 0.770 |
| Ext. Wall - Wood Siding East: Other Wood Framed Wall, [Bldg. Use 1 - Office] (b) | 616 | --- | --- | 0.042 | 0.064 |
| Window - Typ of (4): Wood Frame: Fixed, Perf. Specs.: Product ID Pella Wood Window, SHGC 0.40, PF 0.50, [Bldg. Use 1 - Office] (c) | 128 | --- | --- | 0.350 | 0.380 |
| Ext. Wall - South Stone West: Other Wood Framed Wall, [Bldg. Use 1 - Office] (b) | 90 | --- | --- | 0.041 | 0.064 |
| Ext. Wall - South Stone Center: Other Wood Framed Wall, [Bldg. Use 1 - Office] (b) | 90 | --- | --- | 0.041 | 0.064 |
| Ext. Wall - South Stone East: Other Wood Framed Wall, [Bldg. Use 1 - Office] (b) | 132 | --- | --- | 0.041 | 0.064 |
| Ext. Wall - South Wood Siding - West: Other Wood Framed Wall, [Bldg. Use 1 - Office] (b) | 370 | --- | --- | 0.042 | 0.064 |
| Window - Typ of (2): Wood Frame: Fixed, Perf. Specs.: Product ID Pella Wood Window, SHGC 0.40, PF 0.50, [Bldg. Use 1 - Office] (c) | 64 | --- | --- | 0.350 | 0.380 |
| Door: , Perf. Specs.: Product ID Alum. Entrance Door, SHGC 0.40, PF 0.50, [Bldg. Use 1 - Office] (c) | 21 | --- | --- | 0.600 | 0.770 |
| Ext. Wall - South Wood Siding - Center: Other Wood Framed Wall, [Bldg. Use 1 - Office] (b) | 240 | --- | --- | 0.042 | 0.064 |
| Window - Type of (2): Wood Frame: Fixed, Perf. Specs.: Product ID Pella Wood Window, SHGC 0.40, PF 0.50, [Bldg. Use 1 - Office] (c) | 64 | --- | --- | 0.350 | 0.380 |
| Door: , Perf. Specs.: Product ID Alum. Entrance Door, SHGC 0.40, PF 0.50, [Bldg. Use 1 - Office] (c) | 21 | --- | --- | 0.600 | 0.770 |
| Ext. Wall - South Wood Siding - East: Other Wood Framed Wall, [Bldg. Use 1 - Office] (b) | 616 | --- | --- | 0.042 | 0.064 |
| Window - Typ of (1): Wood Frame: Fixed, Perf. Specs.: Product ID Pella Wood Window, SHGC 0.40, PF 0.50, [Bldg. Use 1 - Office] (c) | 32 | --- | --- | 0.350 | 0.380 |
| Door: Insulated Metal, Non-Swinging, [Bldg. Use 1 - Office] | 72 | --- | --- | 0.140 | 0.140 |
| Ext. Wall - East Stone: Other Wood Framed Wall, [Bldg. Use 1 - Office] (b) | 412 | --- | --- | 0.041 | 0.064 |
| Window @ Entry: Metal Frame Curtain Wall/Storefront, Fixed, Perf. Specs.: Product ID Storefront, SHGC 0.40, PF 0.50, [Bldg. Use 1 - Office] (c) | 30 | --- | --- | 0.380 | 0.380 |
| Door - Portion in Stone: , Perf. Specs.: Product ID Alum. Entrance Door, SHGC 0.40, PF 0.50, [Bldg. Use 1 - Office] (c) | 18 | --- | --- | 0.600 | 0.770 |
| Ext. Wall - East Wood Siding: Other Wood Framed Wall, [Bldg. Use 1 - Office] (b) | 1128 | --- | --- | 0.042 | 0.064 |
| Window - Typ of (10): Wood Frame: Fixed, Perf. Specs.: Product ID Pella Wood Window, SHGC 0.40, PF 0.50, [Bldg. Use 1 - Office] (c) | 320 | --- | --- | 0.350 | 0.380 |
| Window - Storefront beside doors: Metal Frame Curtain Wall/Storefront, Fixed, Perf. Specs.: Product ID Storefront, SHGC 0.40, PF 0.50, [Bldg. Use 1 - Office] (c) | 60 | --- | --- | 0.380 | 0.380 |
| Window - Above Doors: Metal Frame Curtain Wall/Storefront, Fixed, Perf. Specs.: Product ID Storefront, SHGC 0.40, PF 0.50, [Bldg. Use 1 - Office] (c) | 12 | --- | --- | 0.380 | 0.380 |
| Door: , Perf. Specs.: Product ID Alum. Entrance Door, SHGC 0.40, PF 0.50, [Bldg. Use 1 - Office] (c) | 42 | --- | --- | 0.380 | 0.770 |
| Ext. Wall - Connector South - Wood Siding: Other Wood Framed Wall, [Bldg. Use 1 - Office] (b) | 160 | --- | --- | 0.042 | 0.064 |
| Window: Wood Frame: Fixed, Perf. Specs.: Product ID Pella Wood Window, SHGC 0.40, PF 0.50, [Bldg. Use 1 - Office] (c) | 8 | --- | --- | 0.350 | 0.380 |
| Window - Sidelight at door: Metal Frame Curtain Wall/Storefront, Fixed, Perf. Specs.: Product ID Storefront, SHGC 0.40, PF 0.50, [Bldg. Use 1 - Office] (c) | 16 | --- | --- | 0.380 | 0.380 |
| Door: , Perf. Specs.: Product ID Alum. Entrance Door, SHGC 0.40, PF 0.50, [Bldg. Use 1 - Office] (c) | 12 | --- | --- | 0.600 | 0.770 |



| Assembly | Gross Area or Perimeter | Cavity R-Value | Cont. R-Value | Proposed U-Factor | Budget U-Factor(a) |
|---|---|---|---|---|---|
| Ext. Wall - Connector South Stone: Other Wood Framed Wall, [Bldg. Use 1 - Office] (b) | 60 | --- | --- | 0.041 | 0.064 |
| Window: Metal Frame Curtain Wall/Storefront, Fixed, Perf. Specs.: Product ID Storefront, SHGC 0.40, PF 0.50, [Bldg. Use 1 - Office] (c) | 6 | --- | --- | 0.380 | 0.380 |
| Door: , Perf. Specs.: Product ID Alum. Entrance Door, SHGC 0.40, PF 0.50, [Bldg. Use 1 - Office] (c) | 9 | --- | --- | 0.600 | 0.770 |
| Ext. Wall - Connector North Stone: Other Wood Framed Wall, [Bldg. Use 1 - Office] (b) | 60 | --- | --- | 0.041 | 0.064 |
| Ext. Wall - Connector North Wood Sding: Other Wood Framed Wall, [Bldg. Use 1 - Office] (b) | 160 | --- | --- | 0.042 | 0.064 |
| Window - Typ of (2) Lower: Wood Frame: Fixed, Perf. Specs.: Product ID Pella Wood Window, SHGC 0.40, PF 0.50, [Bldg. Use 1 - Office] (c) | 40 | --- | --- | 0.350 | 0.380 |
| Window - Typs of (2) Upper: Wood Frame: Fixed, Perf. Specs.: Product ID Pella Wood Window, SHGC 0.40, PF 0.50, [Bldg. Use 1 - Office] (c) | 15 | --- | --- | 0.350 | 0.380 |
| Roof: Attic Roof, Wood Joists, [Bldg. Use 1 - Office] | 12814 | 45.0 | 0.0 | 0.023 | 0.027 |

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
(b) 'Other' components require supporting documentation for proposed U-factors.
(c) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.
(d) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.

**Envelope PASSES: Design 2% better than code**

### Envelope Compliance Statement

*Compliance Statement:* The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2012 IECC requirements in COM*check* Version COMcheck-Web and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title | Signature | Date



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IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500
DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE
3284 INDUSTRIAL LOOP, COEUR D'ALENE, IDAHO 83815
ARCHITECTURAL COM CHECK

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | Designer |
| DRAWN BY | Author |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | Checker |
| REVISION | RECORD SET |
| SHEET NO. | |

A1.02

## GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO THE "IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION", (ISPWC) AND THE CITY OF COEUR D'ALENE STANDARD DRAWINGS AND SPECIFICATIONS. IN THE CASE OF A CONFLICT, CITY OF COEUR D'ALENE STANDARDS SHALL PREVAIL.
2. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY COMPANY PRIOR TO STARTING WORK NEAR ANY FACILITIES AND SHALL COORDINATE HIS WORK WITH COMPANY REPRESENTATIVES. ALL UTILITY SERVICES SHALL BE INSTALLED UNDERGROUND, FOR EXISTING UTILITY LOCATIONS, CONTACT "CALL BEFORE YOU DIG" AT 811 AT LEAST 48 HOURS PRIOR TO STARTING ANY EXCAVATIONS.
3. WORK SHALL NOT BEGIN UNTIL A NOTICE TO PROCEED IS ISSUED.
4. THE CONTRACTOR SHALL NOTIFY THE CITY OF COEUR D'ALENE ENGINEERING INSPECTOR 48 HOURS PRIOR TO STARTING WORK WITHIN THE RIGHT-OF-WAY.
5. A PERMIT SHALL BE OBTAINED FROM THE CITY ENGINEERING DIVISION FOR WORK WITHIN EXISTING CITY RIGHT-OF-WAY
6. THE CONTRACTOR SHALL HAVE AN APPROVED SET OF IMPROVEMENT PLANS ON THE JOB SITE AT ALL TIMES.
7. CONSTRUCTION EXPANSION JOINTS ARE REQUIRED IN CURB AND GUTTER AT RETURNS AND AT DRIVEWAY INTERSECTIONS PER CITY STANDARDS. WEAKENED PLAN JOINTS ARE REQUIRED EVERY TWENTY (20) FEET PER CITY STANDARDS.
8. ALL UNDERGROUND UTILITY LATERALS SHALL BE INSTALLED BEFORE CONSTRUCTION OF CURBS, CROSS GUTTERS, OR SURFACING OF THE STREETS.
9. WHERE TRENCHES ARE WITHIN PUBLIC EASEMENTS OR RIGHT-OF-WAY, COMPACTION TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER OF WORK AND THE CITY ENGINEER BY A QUALIFIED ENGINEER WHICH SHALL CERTIFY THAT TRENCH BACKFILL WAS COMPACTED AS REQUIRED IN ACCORDANCE WITH ISPWC AND CITY OF COEUR D'ALENE SPECIFICATIONS.
10. ALL TESTING REQUIRED BY THE CITY OF COEUR D'ALENE WILL BE AT NO COST TO THE CITY.
11. ALL OPERATIONS CONDUCTED ON THE PREMISES, INCLUDING THE WARMING UP, REPAIR, ARRIVAL, DEPARTURE OR RUNNING OF TRUCKS, EARTHMOVING EQUIPMENT, CONSTRUCTION EQUIPMENT AND ANY OTHER ASSOCIATED EQUIPMENT SHALL BE LIMITED TO THE PERIOD BETWEEN 7:00 A.M. AND 5:00 P.M. MONDAY THROUGH FRIDAY UNLESS OTHERWISE APPROVED BY THE CITY OF COEUR D'ALENE.
12. ALL EXISTING IMPROVEMENTS INCLUDING CURB AND GUTTERS, SIDEWALKS, ASPHALT, CONCRETE OR P.C.C. PAVING, WHICH ARE BEING JOINED OR MATCHED IN CONNECTION WITH THIS PROJECT SHALL BE JOINED OR MATCHED IN A MANNER SATISFACTORY TO THE CITY ENGINEER, INCLUDING NECESSARY SAWCUTTING, REMOVAL, REPLACEMENT AND CAPPING.
13. COMPACTION TESTING SHALL BE PERFORMED ON THE FOLLOWING:
    - UTILITY TRENCH BACKFILL
    - ROADWAY EMBANKMENT
    - CURB AND GUTTER SUBGRADE
    - ROAD SUBGRADE
    - ROAD BASE
    - ASPHALT PAVING

    THE CITY AND THE IDAHO DIVISION OF BUILDING SAFETY MAY REQUIRE ADDITIONAL TESTING IF IT DEEMS NECESSARY. COMPACTION FREQUENCY SHALL GENERALLY ADHERE TO THE FOLLOWING GUIDELINES:

| | | |
|---|---|---|
| EMBANKMENT | - | 1 PER 50 CY |
| TRENCH | - | 1 PER 50 CY LOCATED IN PIPE ZONE, MID-DEPTH, SURFACE, AND AROUND MANHOLES. |
| SUBGRADE<br>ROAD BASE<br>ASPHALT PAVING | - | 1 PER 750-1000 SF |
| CURB AND GUTTER | - | 1 PER 75-100 LF |

14. NO REVISIONS SHALL BE MADE TO THESE PLANS WITHOUT THE APPROVAL OF THE ENGINEER. ALL PROPOSED REVISIONS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL.
15. NO REVISIONS SHALL BE MADE TO THE CITY STANDARD DRAWINGS OR NOTES WITHOUT WRITTEN APPROVAL OF THE CITY ENGINEER. REVISIONS OF CITY STANDARD DRAWINGS SHALL BE CLEARLY IDENTIFIED UPON THE APPROVED DRAWINGS. REVISIONS OR ADDITIONS TO STANDARD NOTES SHALL BE PROVIDED ONLY WITHIN THE SUPPLEMENTAL NOTES.
17. ALL SAFETY STANDARDS AND REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND COMPLIED WITH AS SET FORTH BY OSHA.
18. AN APPROVED SET OF IMPROVEMENT PLANS SHALL BE KEPT ON THE JOB SITE AT ALL TIMES.
19. THE CONTRACTOR SHALL MAINTAIN THE SITE IN A CLEAN, SAFE AND USEABLE CONDITION. ALL SOIL, ROCK, OR CONSTRUCTION DEBRIS SHALL BE PROMPTLY REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION, AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY; PRIVATE OR PUBLIC, SHALL BE MAINTAINED IN A CLEAN, SAFE AND USEABLE CONDITION.
20. EXISTING PROPERTY CORNERS OR SURVEY MONUMENTS SHALL BE PROTECTED DURING THE COURSE OF CONSTRUCTION. ANY DAMAGED OR OBLITERATED CORNERS OR MONUMENTS SHALL BE RE-ESTABLISHED BY PROFESSIONAL SURVEYORS, LICENSED TO WORK IN THE STATE OF IDAHO, PRIOR TO FINAL ACCEPTANCE.
21. ALL UNDERGROUND UTILITY LATERALS SHALL BE INSTALLED AND APPROVED BEFORE CONSTRUCTION OF CURBS, CROSS GUTTERS, SIDEWALKS OR THE SURFACING OF STREETS. ANY TRENCHES WITHIN PUBLIC EASEMENTS OR RIGHTS-OF-WAY SHALL BE COMPACTED IN ACCORDANCE WITH SD 301. COMPACTION TEST RESULTS SHALL BE CERTIFIED BY THE TESTING COMPANY ENGINEER, AND SUBMITTED TO THE CITY ENGINEER FOR APPROVAL PRIOR TO ANY PAVING AND FINAL ACCEPTANCE OF WORK.
22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND COORDINATING ALL PROJECT INSPECTIONS, INCLUDING MATERIALS TESTING AND QUALITY CONTROL. THE ENGINEER OF RECORD SHALL BE ON-SITE FOR ALL SEWER AND WATER CONSTRUCTION (OUTSIDE THE BUILDING). THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD TWO (2) WORKING DAYS IN ADVANCE OF ALL SEWER AND WATER UTILITY WORK. COPIES OF DAILY REPORTS, TEST RESULTS, PROJECT CERTIFICATION AND AS-BUILT DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD THROUGHOUT THE COURSE OF CONSTRUCTION IN A TIMELY MANNER; AS APPROPRIATE WITH PHASING OF THE PROJECT, AND PRIOR TO FINAL ACCEPTANCE.

## SEWER NOTES:

1. LOCATION AND ELEVATION OF EXISTING FACILITIES SHOULD BE CONFIRMED BY FIELD MEASUREMENTS AND EXCAVATION EXPLORATION BY THE CONTRACTOR, PRIOR TO BEGINNING OF NEW WORK. ALL WORK IS TO CONFIRM TO OSHA REQUIREMENTS.
2. WASTEWATER UTILITY DOES NOT RESPOND TO THE "ONE-CALL" NOTIFICATION. CONTRACTOR MUST CALL SEPARATELY FOR LOCATES ON SANITARY SEWER. (208) 769-2241.
3. EACH LOT SHALL BE SERVED BY MINIMUM OF A SINGLE FOUR (4) INCH (RESIDENTIAL), OR SIX (6) INCH (COMMERCIAL) SEWER LATERAL SET AT A MINIMUM OF 2.0%. SEE STD. DWG. SS-6. ALL SEWER LATERALS SHALL BE SHOWN ON AS-BUILT PLANS WITH STATIONING AND ELEVATIONS.
4. SANITARY SEWER LATERALS SHALL BE AT RIGHT ANGLES TO PUBLIC SEWER MAINS, EXCEPT IN A CUL-DE-SAC WHERE THE (90°) RULE IS NOT PRACTICAL. CUL-DE-SAC LATERALS MAY ENTER MANHOLES WITH PRIOR APPROVAL. SEWER SERVICE CONNECTIONS SHALL BE TEES FOR ALL PUBLIC MAINS. PRIVATE SERVICE CONNECTIONS SHALL CONFORM TO THE PLUMBING CODE.
5. THE CONTRACTOR MUST SECURE APPROVAL FROM THE CITY'S ENGINEERING INSPECTOR PRIOR TO BACKFILL OVER SEWER TEES AND LATERALS.
6. NO DISRUPTION OF EXISTING SANITARY SEWER SERVICE WILL BE ALLOWED WITHOUT THE SPECIFIC APPROVAL OF THE CITY'S WASTEWATER UTILITY.
7. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD, THE CITY'S ENGINEERING INSPECTOR, AND WASTEWATER UTILITY AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO COMMENCING WORK ON ANY PUBLIC SEWERS.
8. ALL PUBLIC SEWER MAINS AND SEWER LATERALS SHALL BE PLACED, INSPECTED, TESTED, AND APPROVED BY THE CITY AND THE IDAHO DIVISION OF BUILDING SAFETY PRIOR TO PAVING.
9. ALL SANITARY SEWER MAINS SHALL BE AIR TESTED IN ACCORDANCE WITH IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION (ISPWC). TESTING SHALL BE WITNESSED, RECORDED, AND SIGNED BY THE ENGINEER OF RECORD AND THE TEST RESULTS SUBMITTED TO THE CITY'S ENGINEERING INSPECTOR.
10. GRAVITY SEWER PIPE AND FITTINGS TO BE SOLID WALL PVC ASTM D 3034 SDR 35 WITH ASTM F-477 ELASTOMERIC GASKETS.
11. SEWER SERVICE LINES TO COMPLY WITH COEUR D'ALENE STANDARD DRAWING (CDA SD) SS-6
12. ALL SEWER SHALL BE AIR PRESSURE TESTED IN ACCORDANCE WITH ISPWC SECTION 501.3.4 WHERE TESTING PRESSURE IS 3.5 PSI AND HOLDING TIME IS BASED ON LENGTH AND DIAMETER OF THE PIPE BEING TESTED, RE: TABLE 1 ISPWC SECTION SANITARY SEWER TESTING IS REQUIRED IN THE PRESENCE OF THE ENGINEER OF RECORD AND THE CITY INSPECTOR.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP OF ANY DEBRIS WITHIN NEWLY CONSTRUCTED PIPES, OR THEIR CONNECTIONS TO EXISTING SYSTEMS. ALL LINES AND MANHOLES SHALL BE CLEANED AND INSPECTED PRIOR TO PAVING. HYDRANT FLUSHING OF SEWERS IS NOT AN ACCEPTABLE MEANS OF CLEANING.
14. NO DISRUPTION OF EXISTING SANITARY SEWER SERVICE WILL BE ALLOWED WITHOUT THE SPECIFIC APPROVAL OF THE CITY'S WASTEWATER UTILITY. THE IDL ENGINE BAYS SOUTH OF THE PROPOSED BUILDING WILL HAVE SEWER SERVICE INTERRUPTIONS THAT WILL NEED TO BE COORDINATED WITH IDL.
15. PRESSURE SEWER PIPE TO BE PE 3406 WITH ANSI C 906

## TRENCHING AND EXCAVATION NOTES:

1. ALL UTILITY WORK TO COMPLY WITH ISPWC SECTION 300 - TRENCHING. TYPICAL TRENCH SHALL COMPLY WITH ISPWC SD-301 AND SD-302. CLASS A-1 BEDDING SYSTEM SHALL BE USED WITH TYPE 1 BEDDING MATERIAL. BEDDING MATERIAL TO BE COMPACTED TO 92% OF STANDARD PROCTOR.
2. EXISTING SOIL ON SITE MAY BE SUITABLE FOR UTILITY TRENCH BACKFILL IF ORGANICS, DEBRIS, AND OTHER DELETERIOUS MATERIAL AND MATERIAL LARGER THAN 3 INCHES IN SIZE ARE REMOVED. THE MATERIAL IN THE BACKFILL MUST COMPLY WITH THE FOLLOWING: MAXIMUM SIZE ≤ 2 INCHES, PASSING NO. 200 SIEVE ≤ 15%, AND THE MATERIAL SHALL BE NON-PLASTIC. THE MATERIAL MUST ALSO COMPLY WITH ISPWC BACKFILL MATERIAL SPECIFICATIONS IN SECTION 306.2.1 -TRENCH BACKFILL. SEWER SERVICE LINES TO COMPLY WITH CITY OF COEUR D'ALENE STANDARD DRAWING SS-6.
3. BASED ON THE GEOTECHNICAL REPORT (GEOTECHNICAL ENGINEERING EVALUATION - PROPOSED IDAHO DEPARTMENT OF LANDS ADDITION AND IMPROVEMENTS - SIGNED AND DATED MARCH 10, 2017), EXCAVATIONS FOR UTILITY TRENCHES IN THE SOIL CONDITIONS ENCOUNTERED AT THE SITE ARE SUSCEPTIBLE TO SOUGHING AND CAVING. EXCAVATIONS DEEPER THAN 4 FEET SHOULD BE SHORED OR SLOPED AT STABLE INCLINATIONS IF WORKERS ARE REQUIRED TO ENTER SUCH EXCAVATIONS. SHORING FOR UTILITY EXCAVATIONS MUST CONFORM TO PROVISIONS OF APPLICABLE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS.
4. ALL TEST RESULTS SHALL BE PROVIDED TO THE ENGINEER OR RECORD.

## WATER NOTES:

1. THE MINIMUM WATER SERVICE SHALL BE ONE INCH (1"). ALL NEW WATER SERVICE TAPS SHALL BE ONE OF THE FOLLOWING: ONE INCH (1"), TWO INCH (2"), FOUR INCH (4"), SIX INCH (6") OR EIGHT INCH (8"), UNLESS OTHERWISE APPROVED. METER SIZES SHALL RANGE FROM THREE QUARTER INCH (¾") TO EIGHT INCH (8").
2. WATER MAINS SHALL BE AWWA C900 PVC PIPE (DR-18) FOUR INCH (4") TO TWELVE INCH (12"), C905 PVC FOURTEEN INCH (14") AND LARGER, AND SHALL BE CONSTRUCTED WITH THE TOP OF THE PIPE AT A MINIMUM OF 54 INCHES BELOW FINISH GRADE EXCEPT WHERE OTHERWISE INDICATED WITH SPECIFIC ELEVATIONS AND APPROVED BY THE CITY ENGINEER.
3. NO DISRUPTION OF EXISTING WATER SERVICES WHILE MAKING CONNECTION TO EXISTING MAINS SHALL BE ALLOWED WITHOUT SPECIFIC APPROVAL FROM THE CITY OF COEUR D'ALENE WATER DIVISION. ALL AFFECTED PROPERTIES MUST BE NOTIFIED AT LEAST 48 HOURS PRIOR TO SHUT-OFF. FAILURE TO COMPLY WITH NOTICING OR OTHER REQUIREMENTS COULD RESULT IN A STOP-WORK NOTICE, FINES, AND /OR OTHER PENALTIES.
4. NO CONNECTIONS FOR THE PURPOSE OF OBTAINING WATER SUPPLY DURING CONSTRUCTION SHALL BE MADE WITHOUT FIRST OBTAINING APPROVAL FROM THE CITY OF COEUR D'ALENE WATER DIVISION. BULK WATER FOR CONSTRUCTION AND DUST CONTROL SHALL BE PURCHASED THROUGH APPROVED FILLING STATIONS.
5. THE EXISTENCE AND LOCATION OF WATER FACILITIES SHOWN ON THE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE CITY RECORDS. LOCATION AND ELEVATION OF EXISTING WATER FACILITIES SHALL BE CONFIRMED BY FIELD MEASUREMENTS AND EXCAVATION EXPLORATION BY THE CONTRACTOR PRIOR TO BEGINNING OF NEW WORK.
6. CITY AND DBS ENGINEERING INSPECTORS SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO ANY INSPECTION.
7. ALL FITTINGS OR APPURTENANCES REMOVED FROM THE CITY WATER LINES SHALL BE RETURNED BY THE CONTRACTOR TO THE CITY OF COEUR D'ALENE WATER DIVISION UNLESS OTHERWISE SPECIFIED BY THE CONTRACT DOCUMENTS OR SUPERINTENDENT.
8. ALL WATER MAINS, VALVES AND VALVE BOXES, FIRE HYDRANTS, SERVICES, AND APPURTENANCES SHALL BE INSTALLED, TESTED, AND APPROVED PRIOR TO PAVING.
9. ALL MAINS SHALL BE TESTED IN ACCORDANCE WITH CITY REQUIREMENTS. HYDROSTATIC TESTING SHALL BE WITNESSED BY A CITY INSPECTOR. RESULTS OF CHLORINATION AND BACTERIA TESTS SHALL BE SUBMITTED TO THE CITY OF COEUR D'ALENE WATER DIVISION FOR APPROVAL.
10. THRUST BLOCKS SHALL BE REQUIRED ON ALL PIPE FITTINGS, BENDS, AND VALVES. SEE THRUST BLOCK DETAIL.
11. ALL SANITARY SEWER MAINS AND NON-POTABLE WATER SHALL BE SEPARATED AT LEAST 10 FEET HORIZONTALLY FROM DOMESTIC WATER LINES. CROSSINGS OF WATER MAINS AND SEWER SYSTEMS SHALL HAVE A MINIMUM 18-INCH VERTICAL SEPARATION WITH THE WATER MAIN BEING CENTERED OVER THE SANITARY SEWER. ANY ANTICIPATED SEPARATION DIFFERING FROM THE MINIMUM STANDARDS CONTAINED HEREIN SHALL CONFORM TO THE IDAHO RULES FOR PUBLIC DRINKING WATER (IDAPA 58.01.16) AND ISPWC SD-407.
12. THE CONTRACTOR IS NOT PERMITTED TO SHUT DOWN THE WATER MAIN UNLESS APPROVED BY THE CITY OF COEUR D'ALENE WATER DEPARTMENT.
13. ALL WATER PIPES TO BE INSTALLED A MINIMUM OF 4.5-FEET BELOW PROPOSED FINISHED GRADE.
14. ALL WATER SERVICE PIPE SHALL MEET THE REQUIREMENTS OF ISPWC SECTION 404.
15. WATER METERS SHALL CONFORM TO THE CITY OF COEUR D'ALENE STANDARD DRAWINGS AND CITY OF COEUR D'ALENE WATER DEPARTMENT CONSTRUCTION STANDARDS CHAPTER 9.
16. THE TAPPING SLEEVE SHALL SHALL BE FULL WRAP STAINLESS STEEL OR OTHER APPROVED MATERIAL FOR THE WATER MAIN BEING TAPPED. THE TAPPING SLEEVE SHALL HAVE A FLANGE OF THE APPROPRIATE TAP SIZE. THE TAPPING SLEEVE SHALL FULLY SUPPORT THE BODY OF THE MAIN TAPPED SO AS TO ELIMINATE ANY CHANCE OF LEAKAGE. THE TAPPING SLEEVE SHALL BE INSTALLED AND TORQUED TO THE MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS AND THE CONTRACTOR SHALL ENSURE THAT THE TEST PLUG IS ON THE UPPER PORTION OF THE SADDLE FOR A POSSIBLE TEST ON THE SLEEVE.
17. DISINFECT SERVICE LINES IN ACCORDANCE WITH ISPWC SECTION 401-WATER PIPE AND FITTINGS AND ANSI/AWWA C 651.
18. ALL MAINS COMPLETE WITH VALVES, FITTINGS, FIRE HYDRANTS, FIRE SERVICES AND LATERALS, SERVICE LATERALS, STUBS AND OTHER FACILITIES AND APPURTENANCES SHALL BE HYDROSTATICALLY TESTED MEETING SECTION 19 OF AWWA C603-64T SPECIFICATIONS AT ONE HUNDRED SIXTY (160) PSI FOR A TWO (2) HOUR DURATION.

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IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500
**DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE**
**3284 INDUSTRIAL LOOP, COEUR D'ALENE ID, 83815**
CIVIL NOTES

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | ACB |
| DRAWN BY | BCLARK |
| ISSUE DATE | 08.27.18 |
| PHASE | CLOSEOUT |
| CHECKED BY | ACB |
| REVISION | RECORD SET |
| SHEET NO. | |

C0.01R

# LINE LEGEND

| LINE DESCRIPTION | PROPOSED LINE | EXISTING LINE |
|---|---|---|
| **POWER / COMMUNICATIONS** | | |
| OVERHEAD POWER | OHP | OHP |
| UNDERGROUND POWER | UP | UP |
| OVERHEAD TELEPHONE | OHT | OHT |
| UNDERGROUND TELEPHONE | UT | UT |
| FIBER OPTIC | F/O | F/O |
| CABLE TELEVISION | CTV | CTV |
| UNDERGROUND POWER, TEL, CABLE TV | | P,T,CTV |
| UNDERGROUND POWER, TEL, CABLE TV, GAS | | P,T,CTV,G |
| **STORM DRAIN** | | |
| STORM DRAIN (GENERAL) | SD | SD |
| STORM DRAIN | X"SD | X"SD |
| ROOF DRAIN | RD | RD |
| **SANITARY SEWER** | | |
| SANITARY SEWER (GENERAL) | SS | SS |
| SANITARY SEWER | X"SS | X"SS |
| SANITARY SEWER SERVICE | SS SS | SS SS |
| SEWER FORCE MAIN | FM | FM |
| **WATER** | | |
| WATER (GENERAL) | W | W |
| WATER (SPECIFIED SIZE) | X"W | X"W |
| WATER SERVICE | WS WS | WS WS |
| **IRRIGATION** | | |
| IRRIGATION | IRR | IRR |
| GRAVITY IRRIGATION | GIRR | GIRR |
| PRESSURE IRRIGATION | PIRR | PIRR |
| POTABLE WATER | PW | PW |
| NON-POTABLE WATER | NPW | NPW |
| **GAS** | | |
| NATURAL GAS | G | G |
| NATURAL GAS SERVICE | G G | G G |
| HIGH PRESSURE GAS | HPG | HPG |
| LIQUID GAS | LG | LG |
| **UTILITY** | | |
| CHLORINE LINE | CHL | CHL |
| INDUSTRIAL WASTE WATER | IWW | IWW |
| DRAIN LINE | | DL |

| LINE DESCRIPTION | PROPOSED LINE | EXISTING LINE |
|---|---|---|
| **BOUNDARY** | | |
| PROPERTY LINE | P/L | P/L |
| PROPERTY LINE | | |
| RIGHT OF WAY | R/W | R/W |
| TEMPORARY EASEMENT | T/E | T/E |
| PERMANENT EASEMENT | P/E | P/E |
| TOWNSHIP AND RANGE | | |
| SECTION LINE | | |
| QUARTER SECTION LINE | | |
| 1/16 SECTION LINE | | |
| STATE LINE | | |
| COUNTY LINE | | |
| **SITE** | | |
| FENCE | X | X |
| MAJOR CONTOUR | 2521 | |
| MINOR CONTOUR | | |
| GRADE BREAK | | GB |
| TOP OF BANK | | TOB |
| TOE OF SLOPE | | TOE |
| CUT LIMITS | | |
| FILL LIMITS | | |
| DITCH | | |
| STORM SWALE | | |
| EDGE OF WATER | | |
| HIGH WATER | | |
| WETLAND | | WET |
| WETLAND BOG | | BOG |
| WETLAND MARSH | | MRSH |
| WETLAND SWAMP | | SWMP |
| **ROADWAY** | | |
| ROAD SHOULDER | | |
| ROAD CENTERLINE | | |
| ROAD ASPHALT | | EP |
| ROAD GRAVEL | | EG |
| TOP BACK OF CURB | | |
| LIP OF GUTTER | | |
| LANDSCAPING LIMITS | LS | LS |

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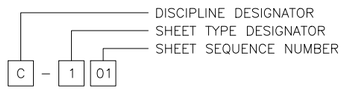
# SHEET NUMBERING

SAMPLE: C-101




## DISCIPLINE DESIGNATORS

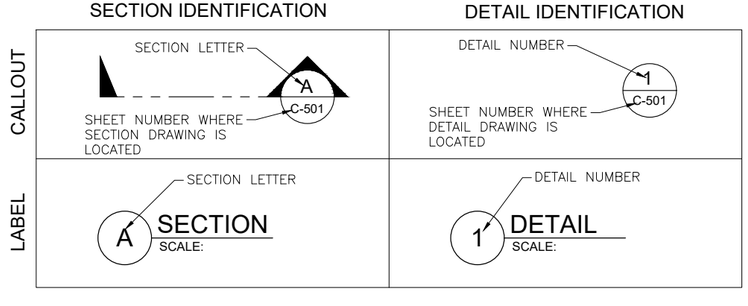
| DISCIPLINE | DESIGNATOR | DESCRIPTION |
|---|---|---|
| GENERAL | G | ALL GENERAL |
| | GI | GENERAL INFORMATION |
| | GC | GENERAL CONTRACTUAL |
| | GR | GENERAL RESOURCE |
| SURVEY/MAPPING | V | ALL SURVEY |
| GEOTECHNICAL | B | ALL GEOTECHNICAL |
| CIVIL | C | ALL CIVIL |
| LANDSCAPE | L | ALL LANDSCAPE |
| STRUCTURAL | S | ALL STRUCTURAL |
| ARCHITECTURAL | A | ALL ARCHITECTURE |
| EQUIPMENT | Q | ALL EQUIPMENT |
| MECHANICAL | M | ALL MECHANICAL |
| ELECTRICAL | E | ALL ELECTRICAL |
| PLUMBING | P | ALL PLUMBING |
| PROCESS | D | ALL PROCESS |
| RESOURCE | R | ALL RESOURCE |

## SHEET TYPE DESIGNATORS

| DESIGNATOR | SHEET TYPE |
|---|---|
| 0 | GENERAL (SYMBOLS, LEGENDS, NOTES, ETC.) |
| 1 | PLANS (HORIZONTAL VIEWS) |
| 2 | ELEVATIONS, PROFILES, COMBINED PLAN & PROFILES |
| 3 | SECTIONS (SECTIONAL VIEWS) |
| 4 | LARGE-SCALE VIEWS (PLANS, ELEVATIONS, ECT.) |
| 5 | DETAILS OR COMBINED DETAILS AND SECTIONS |
| 6 | SCHEDULES AND DIAGRAMS |
| 7 | USER DEFINED |
| 8 | USER DEFINED |
| 9 | 3D REPRESENTATIONS (ISOMETRICS, PERSPECTIVES, PHOTOS) |

# SECTION AND DETAIL IDENTIFIERS

NOTE:
A DASH MAY BE PLACED IN THE LOWER PORTION OF THE IDENTIFIER IF THE DETAIL DRAWING OR SECTION VIEW IS LOCATED ON THE SAME SHEET.





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■ Surveyor
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IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500
**DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE**
**3284 INDUSTRIAL LOOP, COEUR D'ALENE ID, 83815**
DRAWING MANAGEMENT

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | ACB |
| DRAWN BY | BCLARK |
| ISSUE DATE | 08.27.18 |
| PHASE | CLOSEOUT |
| CHECKED BY | ACB |
| REVISION | RECORD SET |
| SHEET NO. | |

C0.02R

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| SYMBOL DESCRIPTION | EXISTING SYMBOL | PROPOSED SYMBOL |
|---|---|---|
| **SURVEY** | | |
| CAP (ALUMINUM) | | |
| CAP (BRASS) | | |
| CHISELED X | | |
| CTRL PT GENERIC | | |
| CTRL PT ½" REBAR | 1/2" PIN CONTROL PT | 1/2" PIN CONTROL PT |
| CTRL PT ⅝" REBAR | 5/8" PIN CONTROL PT | 5/8" PIN CONTROL PT |
| CTRL PT 60D NAIL | 60D | 60D |
| CTRL PT HUB & TACK | HT | HT |
| CTRL PT PK NAIL | PK | PK |
| CTRL PT TEMP BENCH MARK | TBM | TBM |
| NAIL | | |
| NAIL AND TAG | N/T | N/T |
| NAIL (PK) | PK | PK |
| BOLT | | |
| DRILL STEEL | | |
| REBAR (½") | | |
| REBAR (⅝") | | |
| STAINLESS STEEL ROD | | |
| IRON PIPE | | |
| RAILROAD SPIKE | | |
| R/W MONUMENT | | |
| STONE | | |
| SECTION CORNER. MON. | 22 15 / 21 16 | 22 15 / 21 16 |
| SECTION QUARTER MON. | 15 / 22 | 15 / 22 |
| **SITE** | | |
| BOLLARD | | |
| BOULDER | | |
| DRINKING FOUNTAIN | DF | DF |
| FLAGPOLE | F | F |
| GATE | | |
| MAIL BOX | M | M |
| PARKING METER | PM | PM |
| POST | | |
| SIGN | | |
| SPOT ELEVATION | | |
| TREE (SHRUB) | | |
| TREE (STUMP) | | |
| TREE (CONIFEROUS) | | |
| TREE (DECIDUOUS) | | |
| TEST HOLE | TH | |
| WELL | W | W |
| WELL (MONITORING) | M | M |

| SYMBOL DESCRIPTION | EXISTING SYMBOL | PROPOSED SYMBOL |
|---|---|---|
| **UTILITIES** | | |
| MANHOLE (GENERIC) | | |
| PRESSURE CLEAN OUT AT GRADE | PCO | PCO |
| THRUST BLOCK | | |
| VAULT | V | V |
| **COMMUNICATION** | | |
| TELE. MANHOLE | T | |
| TELE. PEDESTAL | T | T |
| TELE. POLE | | |
| TV PEDESTAL | TV | TV |
| GUY WIRE | | |
| **DOMESTIC WATER** | | |
| FIRE HYDRANT | | |
| SPIGOT | | |
| YARD HYDRANT | | |
| WATER MANHOLE | W | |
| WATER METER | | |
| WATER VALVE | W | W |
| **ELECTRIC** | | |
| ELEC. MANHOLE | E | |
| ELEC. METER | E | E |
| ELEC. TRANS. | E | E |
| JUNCTION BOX | J | J |
| POWER POLE | | |
| POWER STUB | E | E |
| STREET LIGHT | | |
| TRAFFIC SIGNAL POLE | | |
| **IRRIGATION** | | |
| IRRIGATION VALVE | IRR | IRR |
| IRRIGATION VALVE BOX | I | I |
| SPRINKLER | | |
| **NATURAL GAS** | | |
| GAS METER | G | G |
| GAS VALVE | G | G |
| **SANITARY SEWER** | | |
| CLEANOUT | | |
| SEWER STUB | S | S |
| SS MANHOLE | S | |
| **STORM DRAIN** | | |
| CATCH BASIN | | |
| DRY WELL | DW | DW |
| FLARE END | | |
| GREASE TRAP | | |
| SD MANHOLE | D | |
| ROCK CHECK DAM | | |

| SYMBOL DESCRIPTION | EXISTING SYMBOL | PROPOSED SYMBOL |
|---|---|---|
| **FITTINGS** | | |
| BEND (11.25°) | | |
| BEND (22.5°) | | |
| BEND (45°) | | |
| BEND (90°) | | |
| CAP | | |
| COUPLING | | |
| CROSS | | |
| REDUCER (CONCENTRIC) | | |
| REDUCER (ECCENTRIC) | | |
| TEE | | |
| TRUE UNION | | |
| WYE | | |
| **VALVES** | | |
| AIR VALVE | A | A |
| BLOW OFF | B | B |
| COMBO VALVE | C | C |
| BALL VALVE (N.C.) | | |
| BALL VALVE (N.O.) | | |
| BUTTERFLY VALVE | | |
| CHECK VALVE | | |
| CHECK VALVE (FLANGE) | | |
| CHECK VALVE (MJ) | | |
| GATE VALVE | | |
| PLUG VALVE (N.C.) | | |
| PLUG VALVE (N.O.) | | |
| **ROAD MARKINGS** | | |
| TURN ARROW | | |
| ARROW STRAIGHT | | |
| ARROW STRAIGHT/TURN | | |
| BICYCLE ROUTE | | |
| CAR | | |
| HANDICAP SYMBOL | | |
| **ROADWAY** | | |
| INTERSTATE ROUTE | 25 | |
| MAST ARM | | |
| PEDESTRIAN SIGNAL | | |
| STATE ROUTE | 14 | |
| TRAFFIC LIGHT | | |

| SYMBOL DESCRIPTION | EXISTING SYMBOL | PROPOSED SYMBOL |
|---|---|---|
| **ROADWAY (CONT.)** | | |
| TYPE 2 BARRICADE | | |
| US ROUTE | 287 | |
| TRAFFIC ATTENUATOR | | |
| JERSEY BARRIER | | |

## ABBREVIATIONS

| | |
|---|---|
| ASSY | ASSEMBLY |
| > | ANGLE |
| @ | AT (MEASUREMENTS) |
| BLDG | BUILDING |
| BM | BENCH MARK |
| BSC | BITUMINOUS SURFACE COURSE |
| BSW | BACK OF SIDEWALK |
| BW | BOTH WAYS |
| C | CHANNEL (STRUCTURAL) |
| C/L | CENTER LINE |
| CMP | CORRUGATED METAL PIPE |
| CO | CLEANOUT |
| CONC | CONCRETE |
| CONT | CONTINUOUS |
| CPLG | COUPLING |
| CU FT | CUBIC FEET |
| CU YD | CUBIC YARD |
| DEG OR ° | DEGREE |
| DET | DETAIL |
| DIA OR ø | DIAMETER |
| DIP | DUCTILE IRON PIPE |
| DIST | DISTRIBUTION |
| DWG | DRAWING |
| EA | EACH |
| ELB | ELBOW |
| ELEV | ELEVATION |
| EW | EACH WAY |
| EXIST | EXISTING |
| FG | FINISH GRADE |
| FH | FIRE HYDRANT |
| FLG | FLANGE |
| FT OR ' | FEET |
| GV | GATE VALVE |
| HORIZ | HORIZONTAL |
| ID | INSIDE DIAMETER |
| IN OR " | INCH |
| LB OR # | POUND |
| LF | LINEAL FEET |
| LN | LINEAL |
| MAX | MAXIMUM |
| MIN | MINIMUM |
| NO OR # | NUMBER |
| PE | POLYETHYLENE |
| PL | PLATE |
| PL | PROPERTY LINE |
| PVC | POLYVINYL–CHLORIDE |
| R | RADIUS |
| RP | RADIUS POINT |
| R&R | REMOVE & REPLACE |
| REM | REMOVE |
| REQ'D | REQUIRED |
| REV | REVISION |
| R/W | RIGHT–OF–WAY |

| | |
|---|---|
| S | SLOPE |
| SPEC | SPECIFICATION |
| STA | STATION |
| STD | STANDARD |
| STL | STEEL |
| ST STL | STAINLESS STEEL |
| TBC | TOP BACK OF CURB |
| TYP | TYPICAL |
| TFC | TOP FACE OF CONCRETE |
| W/ | WITH |
| W/O | WITHOUT |
| W/REQ'D | WHERE REQUIRED |

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IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500
**DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE**
**3284 INDUSTRIAL LOOP, COEUR D'ALENE ID, 83815**

# GENERAL SYMBOLS

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | ACB |
| DRAWN BY | BCLARK |
| ISSUE DATE | 08.27.18 |
| PHASE | CLOSEOUT |
| CHECKED BY | ACB |
| REVISION | RECORD SET |
| SHEET NO. | |

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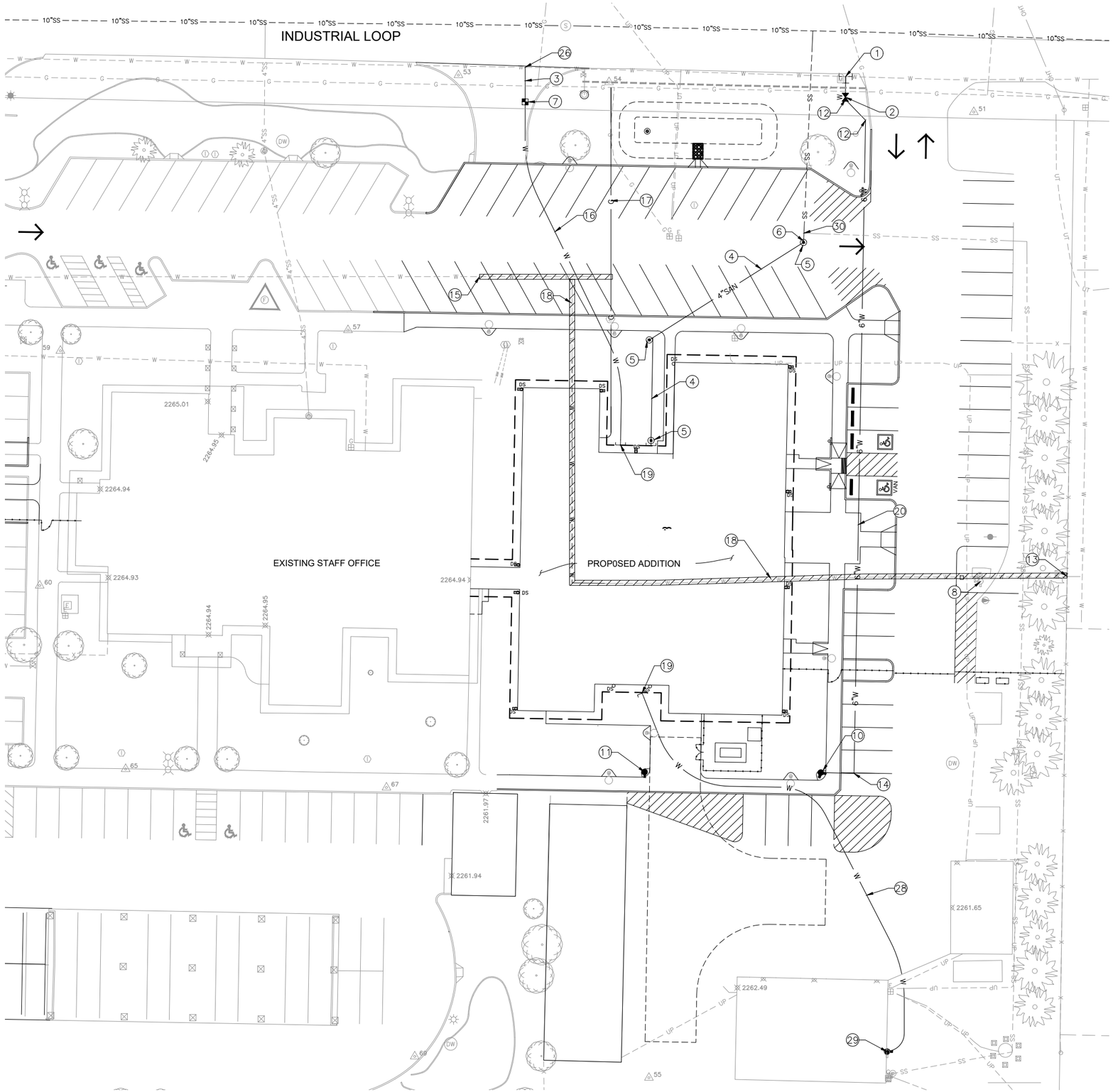


SHEET NOTES:

1. 12"x6" STAINLESS STEEL TAPPING SLEEVE OR APPROVED EQUAL FOR HOT TAP
2. 6–INCH GATE VALVE AT TEE; TO BE RESILIENT SEATED PER C509 & CDA WDCS
3. 1" DOMESTIC WATER SERVICE PIPE. BACKFLOW PREVENTION TO BE INSIDE THE BUILDING. COORDINATE WITH MECHANICAL PLANS.
4. 4" D–3034 SDR 35 SEWER SERVICE LINE.
5. SEWER CLEANOUT; SEE DETAIL C2/C5.04R.
6. CONNECT PROPOSED SEWER SERVICE TO EXISTING SEWER SERVICE.
7. 1–INCH WATER METER; SEE CDA SD W–1.
8. REMOVE EXISTING YARD HYDRANT AND ALL ASSOCIATED APPURTENANCES. FILL AND COMPACT VOID. PLUG & ABANDON EXISTING SUPPLY LINE.
9. NOT USED.
10. FIRE HYDRANT AND VALVE PER CDA WDCS AND CDA SD W–3.
11. 1–INCH YARD HYDRANT WITH VALVE & STOP TO WASTE DRAIN VALVE. SEE DETAIL 15200
12. 6–INCH, 45 DEGREE FITTING
13. CUT AND CAP EXISTING WATER SERVICE PIPE AT PROPERTY LINE; ABANDON WATER LINE TO THE WEST. SEE DETAIL (02115)
14. 6–INCH, 90 DEGREE FITTING AND 6–INCH GATE VALVE.
15. CUT AND CAP EXISTING WATER SERVICE PIPE; ABANDON WATERLINE TO THE EAST SEE DETAIL 02115/C5.04R.
16. 1.5–INCH DOMESTIC WATER SERVICE PIPE. BACKFLOW PREVENTION TO BE INSIDE THE BUILDING. COORDINATE WITH MECHANICAL PLANS.
17. 1–INCH GAS SERVICE LINE. COORDINATE METER AND BUILDING CONNECTION WITH MECHANICAL PLANS.
18. PLUG AND ABANDON EXISTING SERVICE LINE. SEE DETAIL (02115)
19. COORDINATE CONNECTION WITH MECHANICAL PLANS.
20. 6–INCH C–900 FIRE WATER LINE. 4.5 FOOT MINIMUM BURY DEPTH. SEE CDA SD W–11.
21. NOT USED.
22. NOT USED.
23. NOT USED.
24. NOT USED.
25. NOT USED.
26. 1–INCH SERVICE TAP. SADDLE TO BE ROMAC 202S STYLE.
27. NOT USED.
28. 1.25" DOMESTIC WATER SERVICE PIPE.
29. RE–CONNECT NEW WATER SERVICE LINE TO EXISTING BUILDING. CONSTRUCT NEW YARD HYDRANT. EXACT LOCATION OF EXISTING WATER SERVICE IN THIS AREA IS UNKNOWN.
30. CONNECT EXISTING PRESSURE SEWER PIPE TO SEWER SERVICE.

NOTES:

1. "COEUR D'ALENE STANDARD DRAWING" IS ABBREVIATED "CDA SD".
2. "CITY OF COEUR D'ALENE WATER DEPARTMENT CONSTRUCTION STANDARDS" IS ABBREVIATED, "CDA WDCS"
3. REFERENCE LANDSCAPE PLANS FOR ADDITIONAL DEMOLITION ITEMS NOT LISTED ON THIS SHEET.

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IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500
**DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE**
**3284 INDUSTRIAL LOOP, COEUR D'ALENE ID, 83815**
OVERALL UTILITY PLAN

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | ACB |
| DRAWN BY | BCLARK |
| ISSUE DATE | 08.27.18 |
| PHASE | CLOSEOUT |
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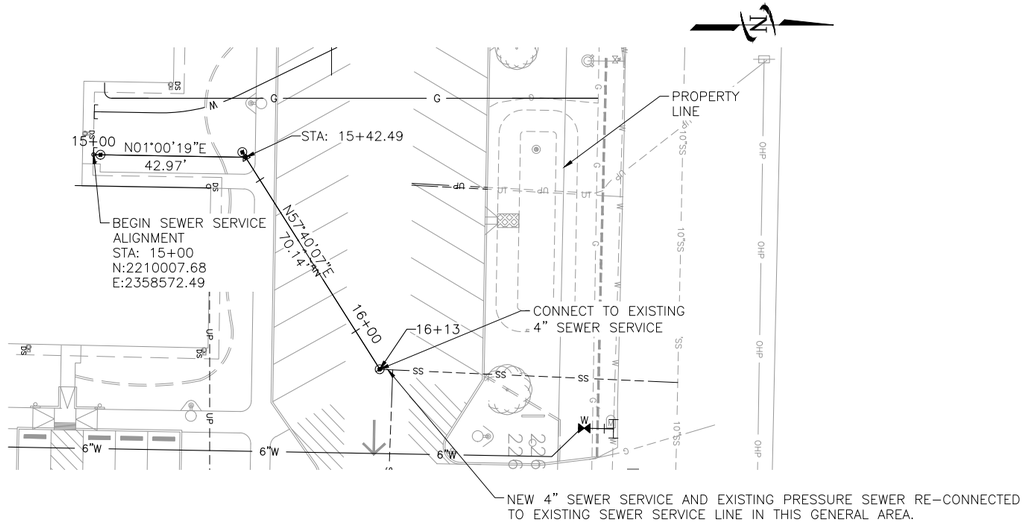


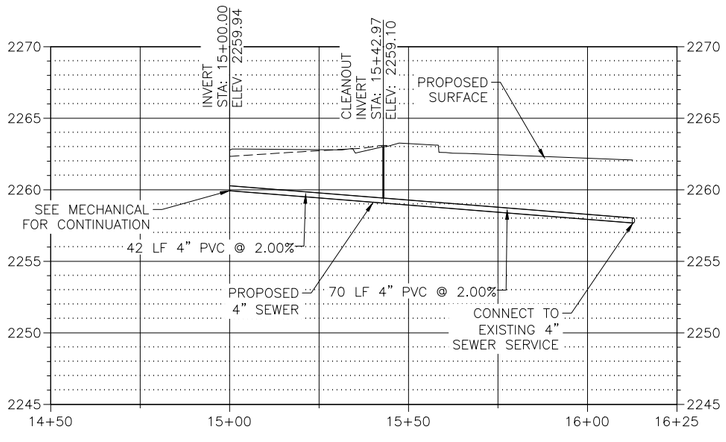


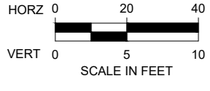


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IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500

**DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE**

**3284 INDUSTRIAL LOOP, COEUR D'ALENE ID, 83815**

# SEWER SERVICE PLAN AND PROFILE

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | ACB |
| DRAWN BY | BCLARK |
| ISSUE DATE | 08.27.18 |
| PHASE | CLOSEOUT |
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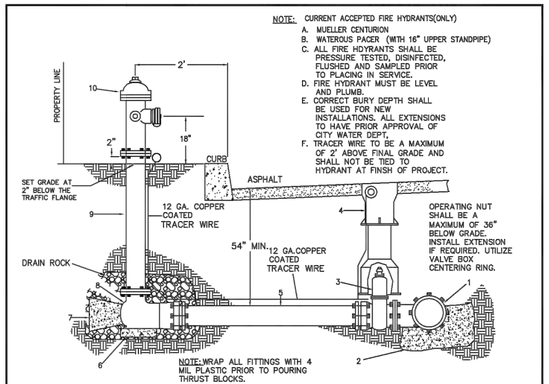
| SHEET NO. | C2.01R |




HYDRANT SPECIFICATIONS

* 6" DRYBARREL FIRE HYDRANT SUITABLE FOR A 5' TRENCH.
* 6" MECHANICAL JOINT BOTTOM CONNECTION.
* 1 1/2" PENTAGON OPERATING NUT, OPEN LEFT.
* TWO 2 1/2" HOSE NOZZLES MST.
* ONE PUMPER NOZZLE 4 1/2" STORZ PORT.
* HYDRANT COLOR-CHROME YELLOW.
* 150 lBS. W.W.P., 300 lBS. WTP.
* MODERN PROFILE TYPE.

NOTE: FIRE HYDRANT SETTINGS

A. SHALL BE SQUARE TO CLOSEST CURB.
B. ALL PORT CAP CHAINS SHALL BE ATTACHED TO CAPS AND HYDRANT.
C. ALL FIRE HYDRANTS SHALL BE SAFETY CHROME YELLOW ONLY!
D. ALL FIRE HYDRANTS SHALL BE A MINIMUM OF 5' FROM DRIVEWAYS OR OTHER FIXED OBSTRUCTIONS.
E. BOLLARDS MAY BE REQUIRED FOR ADDITIONAL PROTECTION BY FIRE DEPT.
F. LIVE TAPS ONLY WHEN ATTACHING TO EXISTING WATER MAINS.

| ITEM NO. | NO. REQ'D | DESCRIPTION |
|---|---|---|
| 1 | 1 | MAIN SIZE MJ x 6" FLANGE CAST IRON TEE OR DIRECT TAP SADDLE. |
| 2 | 1 | CONCRETE BLOCKING PER STD DWG W-9, W10 |
| 3 | 1 | 6" FLANGE x MJ GATE VALVE |
| 4 | 1 | TYLER CAST IRON VALVE BOX W/LID. SERIES 6855 OR APPROVED EQUAL. |
| 5 | 1 | 6" C-900 PVC PIPE x REQ'D LENGTH OR APPROVED EQUAL |
| 6 | 1 | CONCRETE BLOCKING - 12" WIDE x 12" LONG x 4" THICK. |
| 7 | 1 | CONCRETE BLOCKING - APPROVED PRECAST OR POURED BLOCKING |
| 8 | 1 | BASE |
| 9 | 1 | EXTENSION |
| 10 | 1 | FIRE HYDRANT - WATEROUS PACER OR MUELLER CENTURION ONLY |
| | | NOTE: NUMBERS 8-10 COME PREASSEMBLED AS ONE UNIT. |

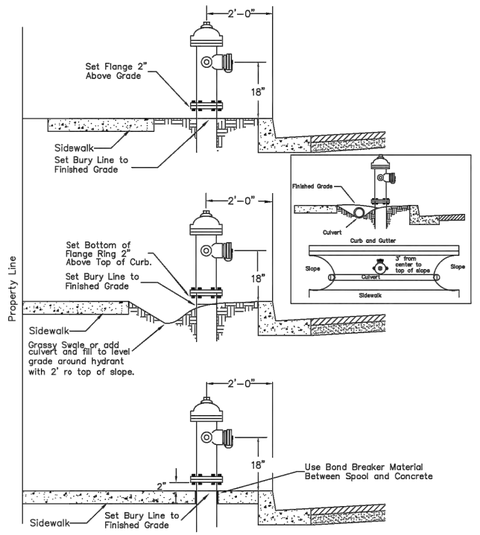
| REVISION | APPROVED | DATE |
|---|---|---|

CITY OF COEUR d'ALENE STANDARD DRAWING

# TYPICAL 6" FIRE HYDRANT SETTING

APPROVED BY: Gordon Dobler, CITY ENGINEER, PE 7432, 4/20/18 DATE:

DWG NO. W-3




NOTES

1. When distance from hydrant to the top or toe of slope is less than 2 feet special installation will be required by the City Engineer.
2. Where hydrant is not protected by a vertical face of curb protective posts are required.
3. The centerline of the hydrant shall be located 5' minimum from curb return and minimum 5' from driveway or any fixed obstruction.

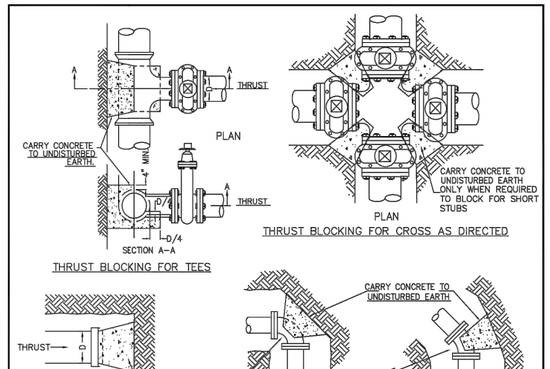
| REVISION | APPROVED | DATE |
|---|---|---|

CITY OF COEUR d'ALENE STANDARD DRAWING

# FIRE HYDRANT LOCATIONS

APPROVED BY: Gordon Dobler, CITY ENGINEER, PE 7432, 4/20/18 DATE:

DWG NO. W-4




NOTES:
1. ALL CONCRETE TO BE MIN 2500 P.S.I.
2. KEEP CONCRETE CLEAR OF NUTS AND BOLTS WHEN USING FLANGED FITTINGS.
3. SEE STANDARD DRAWING W-10 FOR THRUST BLOCK BEARING AREAS.
4. USE MIN 4 MIL PLASTIC WRAPPED AGAINST FITTINGS TO PROTECT BOLTS.
5. ECOLOGY BLOCKS MAY BE USED IF WITH PRIOR APPROVAL FOR MAINS 12" & LESS WITH THRUST CALCS PROVIDED TO CITY.

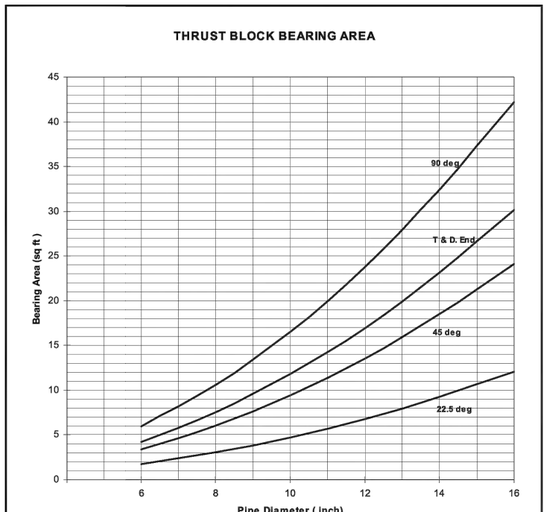
| REVISION | APPROVED | DATE |
|---|---|---|

CITY OF COEUR d'ALENE STANDARD DRAWING

# THRUST BLOCKING

APPROVED BY: Gordon Dobler, CITY ENGINEER, PE 7432, 4/20/18 DATE:

DWG NO. W-9




NOTES

1. Based on 150 psi test pressure and a soil bearing pressure of 1500psf
2. For conditions not covered by these curves, special thrust blocks must be designed and approved.
3. **Ecology blocking may be used with prior approval from the City Engineer and/or the Superintendent for mains 12" and less in size.**
4. **The Design Engineer shall provide thrust bearing area calculations using 1500psf as the desired standard prior to block approval.**

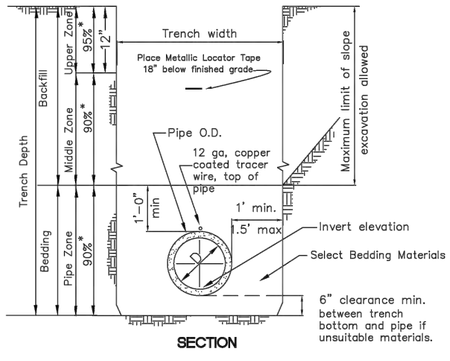
| REVISION | APPROVED | DATE |
|---|---|---|

CITY OF COEUR d'ALENE STANDARD DRAWING

# THRUST BLOCK BEARING AREA

APPROVED BY: Gordon Dobler, CITY ENGINEER, PE 7432, 4/20/18 DATE:

DWG NO. W-10




SECTION

NOTES

1. For trenching in improved streets, see Standard Drawing M-11 for trench resurfacing.
2. (*) indicates minimum relative compaction using modified proctor (ASTM D-1557).
3. Minimum depth of cover from the top of pipe to finished grade shall be 4'6".
4. Bedding Material shall be Sand, Gravel, Crushed Aggregate, or Native material which shall be approved by the Water Dept. prior to using. Bedding shall be placed at least 6" below the pipe if the native materials are unsuitable to a minimum depth of 12" above the pipe unless the backfill is judged to be excessively course. Then the Water Dept. may require 24" or more of select bedding materials over the main.
5. Backfill with rocks in excess of 5" diameter or sharp jagged rock shall not be allowed in the trench at any time from bottom of trench to finished grade. Only select material shall be used.
6. Bedding material shall be distributed to an even grade across the width of the trench profile.
7. Compaction shall be accomplished by approved methods in maximum 12" lifts above the compacted bedding materials.

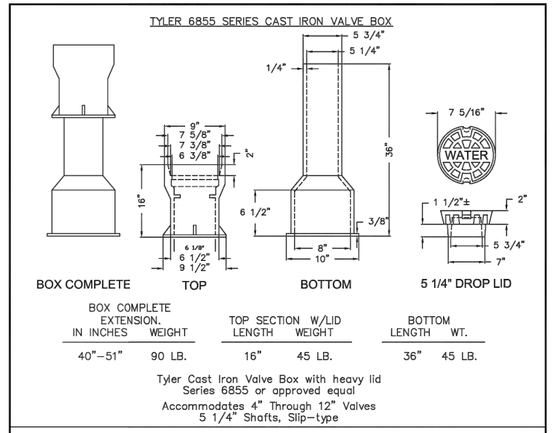
| REVISION | APPROVED | DATE |
|---|---|---|

CITY OF COEUR d'ALENE STANDARD DRAWING

# PIPE BEDDING AND BACKFILL FOR WATER MAINS

APPROVED BY: Gordon Dobler, CITY ENGINEER, PE 7432, 4/20/18 DATE:

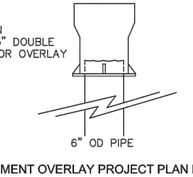
DWG NO. W-11




| BOX COMPLETE EXTENSION. IN INCHES | WEIGHT | TOP SECTION W/LID LENGTH | WEIGHT | BOTTOM LENGTH | WT. |
|---|---|---|---|---|---|
| 40"-51" | 90 LB. | 16" | 45 LB. | 36" | 45 LB. |

Tyler Cast Iron Valve Box with heavy lid
Series 6855 or approved equal
Accommodates 4" Through 12" Valves
5 1/4" Shafts, Slip-type

#2054 IFCO Cast Iron 10" Top Section for Overlay Installation




PAVEMENT OVERLAY PROJECT PLAN PROFILE

| REVISION | APPROVED | DATE |
|---|---|---|

CITY OF COEUR d'ALENE STANDARD DRAWING

# CAST IRON VALVE BOX TWO PIECE

APPROVED BY: Gordon Dobler, CITY ENGINEER, PE 7432, 4/20/18 DATE:

DWG NO. W-12

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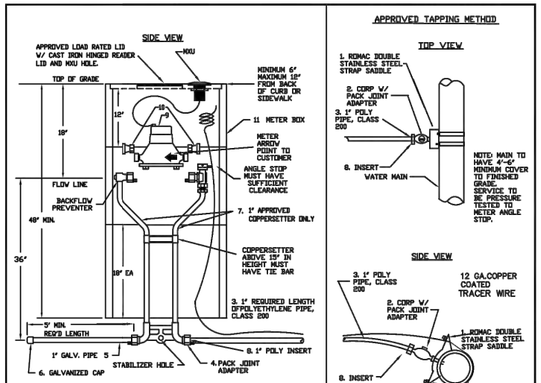
IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500
DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE
3284 INDUSTRIAL LOOP, COEUR D'ALENE ID, 83815

STANDARD DETAILS

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | ACB |
| DRAWN BY | BCLARK |
| ISSUE DATE | 08.27.18 |
| PHASE | CLOSEOUT |
| CHECKED BY | ACB |
| REVISION | RECORD SET |
| SHEET NO. | |

C5.01R

\\CDAFILES\Public\Projects\JUB\20-16-071 Mica Supervisory Office\CAD\Sheet\20-16-071-C-50XR.dwg plotted by: abaden on Thu, August 23 2018 at 07:16 PM

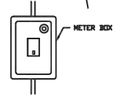






APPROVED TAPPING METHOD AND PARTS

| ITEM NO. | NO. REQ'D. | DESCRIPTION |
|---|---|---|
| 1 | 1 | 1" ROMAC DOUBLE STRAP SERVICE SADDLE |
| 2 | 1 | IPS x 1" POLY PACK JOINT BRONZE CORPORATION STOP. |
| 3 | 1 | 1" x REQ. LENGTH – USE PIPE SIZE, 200 PSI POLYETHLENE SERVICE LINE. |
| 4 | 1 | 1" IPS X 1" POLY BRASS PACK JOINT ADAPTER |
| 5 | 1 | 1" x MIN 5' LONG – GALVANIZED IRON PIPE BACK SIDE |
| 6 | 1 | 1" GALVANIZED CAP. |
| 7 | 1 | 1" APPROVED NSF 61 COMPLIANT COPPERSETTER, ALL COMPONENTS |
| 8 | 2 | 1" POLY INSERTS WHERE NEEDED |
| 9 | 1 | 3/4" BADGER RADIO READ METER (METER LAY LENGTH=7 1/2") |
| 10 | 2 | #24 ADAPTERS |
| 11 | 3 | ARMORCAST 12X20 RPM OR HUBBEL/QUASITE 1130 BOX W/ RADIO READ LID AND HINGED CAST IRON READER LID. BOX WILL CONSIST OF 18" BOTTOM AND MIDDLE SECTIONS, 12" TOP SECTION. |




PLAN VIEW

NOTE: ALL MATERIALS USED IN CONTACT WITH POTABLE WATER ARE TO BE NSF-61 COMPLIANT.

NOTE: STABILIZER BAR MUST BE USED FOR SETTINGS HAVING POLYPIPE ON BOTH FRONT AND BACK SIDES.

** NOTE: NO PRIVATE CONNECTIONS OR FITTINGS ALLOWED INSIDE THE METER BOX.** NOTE: POLY PIPE MAY BE USED WHEN CONNECTING TO AN EXISTING SERVICE WHEN A GALVANIZED CONNECTION CANNOT BE EASILY MADE.

| REVISION | APPROVED | DATE |
|---|---|---|
| | | |
| | | |
| | | |
| | | |
| | | |

CITY OF COEUR d'ALENE STANDARD DRAWING

# 1" COPPERSETTER STANDARD PIT SETTINGS

APPROVED BY:

CITY ENGINEER, PE 7432 — 4/20/15 DATE

DWG NO. W-1

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■ Surveyor
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IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500

**DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE**

**3284 INDUSTRIAL LOOP, COEUR D'ALENE ID, 83815**

STANDARD DETAILS

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | ACB |
| DRAWN BY | BCLARK |
| ISSUE DATE | 08.27.18 |
| PHASE | CLOSEOUT |
| CHECKED BY | ACB |
| REVISION | RECORD SET |
| SHEET NO. | C5.02R |

## WATER MAIN FLUSHING

| PIPE DIAMETER (INCH) | FLOW REQUIRED TO PRODUCE 2.5 F.FPS (APPROX.) VELOCITY IN MAIN, (GPM) | SIZE OF FLUSHING TAP (INCH) (1") (1 1/2") (2") NUMBER OF TAPS ON PIPE (2) | | | HYDRANT OUTLETS NUMBER OF PORTS | HYDRANT OUTLETS SIZE IN (INCH) |
|---|---|---|---|---|---|---|
| 4" | 100 | 1 | | | 1 | 2 1/2" |
| 6" | 220 | | 1 | | 1 | 2 1/2" |
| 8" | 400 | | 2 | 1 | 1 | 2 1/2" |
| 10" | 600 | | 3 | 2 | 1 | 2 1/2" |
| 12" | 900 | | | 2 | 2 | 2 1/2" |
| 16" | 1600 | | | 4 | 2 | 2 1/2" |
| 18" | 2000 | | | 6 | 1 | 4 1/2" |
| 20" | 2500 | | | 8 | 1 | 4 1/2" |
| 24" | 3500 | | | 11 | 2 | 4 1/2" |
| (1) | WITH A 40 PSI RESIDUAL PRESSURE IN THE MAIN WITH THE FIRE HYDRANT OR FLUSH PORT FLOWING TO ATMOSPHERE, A 2 1/2" HYDRANT OUTLET WILL DISCHARGE APPROX. 1000 GPM AND A 4 1/2" HYDRANT NOZZLE WILL DISCHARGE APPROX. 2500 GPM | | | | | |
| (2) | NUMBER OF TAPS ON PIPE BASED ON DISCHARGE RATE THROUGH 5 FEET OF GALVANIZED IRON (G) PIPE WITH ONE 90 DEGREE ELBOW. | | | | | |

FLUSHING:

1. MAINS DO NOT NEED TO BE THOROUGHLY FLUSHED PRIOR TO PRESSURE TEST. FLUSH ONLY ENOUGH TO RELEASE ANY TRAPPED AIR. PRESSURE TEST WILL BE CONDUCTED PRIOR TO COLLECTION OF BACTERIA SAMPLES.
2. MUST USE A MINIMUM SCOURING VELOCITY OF 2.5 FEET PER SECOND (FPS).
3. IF NO FIRE HYDRANT IS PROVIDED NEAR THE END OF THE MAIN, PROVIDE A FLUSHING TAP OF THE SIZE SUFFICIENT TO PROVIDE A MINIMUM VELOCITY IN THE MAIN OF 2.5 FPS.
4. REFER TO THE TABLE ABOVE FOR THE MINIMUM VELOCITY REQUIRED THROUGH A FLUSH PORT OR FIRE HYDRANT TO ACHIEVE SCOURING VELOCITY.
5. EXERCISE EXTREME CARE AND CONDUCT A THOROUGH INSPECTION DURING WATER MAIN INSTALLATION TO PREVENT SMALL STONES, CONCRETE, WILDLIFE AND DEBRIS FROM ENTERING THE MAINS.
6. CLEAR LARGE MATERIAL BY FLUSHING AND INSPECTING ALL HYDRANTS ON THE MAINS TO ENSURE THAT ALL VALVES ARE CLEAR AND AND IN GOOD CONDITION.
7. CONTRACTOR MUST RECEIVE APPROVAL FROM THE CDA WATER DEPT. PRIOR TO FLUSHING ANY WATER MAIN.
8. THE CDA WATER DEPT. WILL NOT BE LIABLE FOR ANY DAMAGE CAUSED BY THE CONTRACTOR WHILE FLUSHING A WATER MAIN. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE WHERE TO DISPOSE OF EXCESS WATER.

| REVISION | APPROVED | DATE |
|---|---|---|
| | | |

CITY OF COEUR d'ALENE STANDARD DRAWING

**WATER MAIN FLUSHING CHART**

APPROVED BY: CITY ENGINEER, PE 7432 — DATE: 4/20/15

DWG NO. W-34

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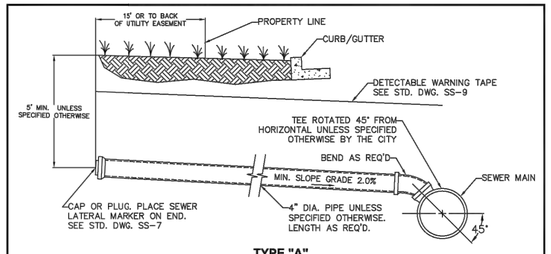
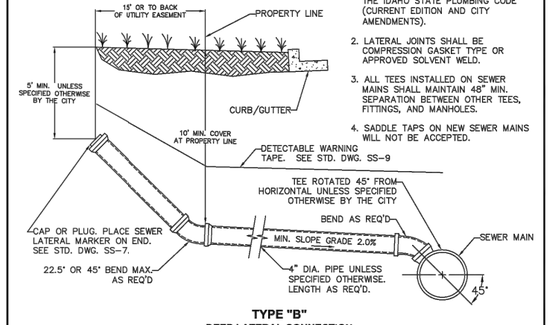



**TYPE "A"**
**STANDARD LATERAL CONNECTION**

NOTES THIS DETAIL:

1. ALL LATERALS SHALL CONFORM TO THE IDAHO STATE PLUMBING CODE (CURRENT EDITION AND CITY AMENDMENTS).
2. LATERAL JOINTS SHALL BE COMPRESSION GASKET TYPE OR APPROVED SOLVENT WELD.
3. ALL TEES INSTALLED ON SEWER MAINS SHALL MAINTAIN 48" MIN. SEPARATION BETWEEN OTHER TEES, FITTINGS, AND MANHOLES.
4. SADDLE TAPS ON NEW SEWER MAINS WILL NOT BE ACCEPTED.




**TYPE "B"**
**DEEP LATERAL CONNECTION**

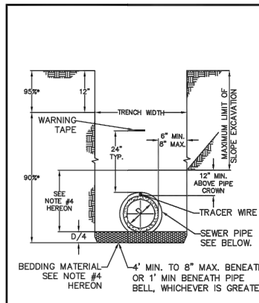
| REVISION | APPROVED | DATE |
|---|---|---|
| | | 5/31/07 |
| | | 6/12/07 |
| | | 3/17/08 |
| | | 3/31/15 |

CITY OF COEUR d'ALENE STANDARD DRAWING

**SEWER SERVICE LATERALS**

APPROVED BY: CITY ENGINEER, PE 7432 — DATE: 4/20/15

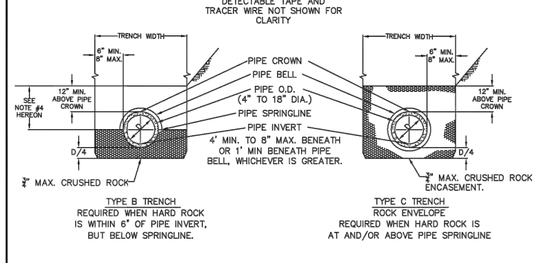
DWG NO. SS-6




TYPE A TRENCH
STANDARD INSTALLATION

NOTES THIS DETAIL:

1. FOR TRENCHING WITHIN IMPROVED STREETS, SEE STD. DWG. M-11 FOR TRENCH RESURFACING SPECIFICATIONS.
2. (*) INDICATES MINIMUM RELATIVE COMPACTION USING A MODIFIED PROCTOR (ASTM D-1557).
3. MINIMUM DEPTH OF COVER FROM THE TOP OF PIPE TO FINISH GRADE FOR ALL SANITARY SEWER INSTALLATIONS SHALL BE 5 FEET.
4. BEDDING MATERIAL SHALL BE SAND, GRAVEL, CRUSHED AGGREGATE, OR NATIVE GRANULAR MATERIAL HAVING A SAND EQUIVALENT NO LESS THAN 12% BY WEIGHT PASSING A #200 SIEVE AND 100% PASSING A #4 SCREEN.
5. WHEN APPLICABLE (UNIQUE SEWERS & FORCE MAINS) CONTINUOUS #10 SOLID T.H.H.N. TRACER WIRE SHALL BE TAPED DIRECTLY TO TOP OF PIPE. ALL BREAKS SHALL BE SPLICED WITH 3M SPLICE KIT OR EQUIVALENT "WATERTIGHT" SPLICE KIT. TRACER WIRE SHALL BE EXTENDED TO FINISH GRADE INSIDE FORCE MAIN LOCATION WIRE BOXES. SEE STD DWG SS-10.
6. DETECTABLE WARNING TAPE MARKED "SEWER LINE BELOW" SHALL BE EXTENDED CONTINUOUSLY 24" ABOVE ALL SANITARY SEWER LINES INCLUDING LATERALS.




TYPE B TRENCH
REQUIRED WHEN HARD ROCK IS WITHIN 6" OF PIPE INVERT, BUT BELOW SPRINGLINE.

TYPE C TRENCH
ROCK ENVELOPE
REQUIRED WHEN HARD ROCK IS AT AND/OR ABOVE PIPE SPRINGLINE

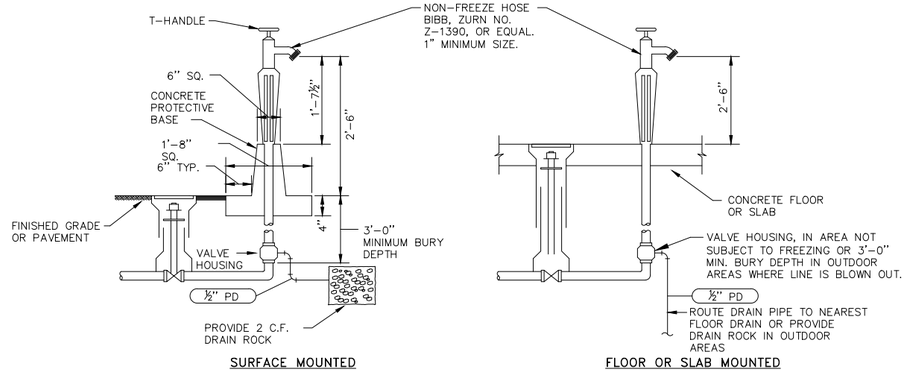
| REVISION | APPROVED | DATE |
|---|---|---|
| | | 5/31/07 |
| | | 3/31/15 |

CITY OF COEUR d'ALENE STANDARD DRAWING

**SEWER TRENCH & BACKFILL DETAIL**

APPROVED BY: CITY ENGINEER, PE 7432 — DATE: 4/20/15

DWG NO. SS-9




SURFACE MOUNTED

FLOOR OR SLAB MOUNTED

TYPE PH-2 - T OPERATED
N.T.S.

NOTES:

1. ALL POST HYDRANTS TO BE CONTROLLED BY INDIVIDUAL SHUT OFF VALVE, EXCEPT WERE INDIVIDUALLY CONTROLLED BRANCH MAIN SERVES POST HYDRANT ONLY (CURB STOP FOR ¾"-1" PIPES. GATE VALVE FOR LARGER PIPES.)
2. BELOW GROUND PARTS SHALL BE WATERWORKS BRASS OR HOT DIP GALVANIZED. ABOVE GROUND PARTS SHALL BE PAINTED.

15200 NON-FREEZE HYDRANTS
NOT TO SCALE

IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500
DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE
3284 INDUSTRIAL LOOP, COEUR D'ALENE ID, 83815

STANDARD DETAILS

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | ACB |
| DRAWN BY | BCLARK |
| ISSUE DATE | 08.27.18 |
| PHASE | CLOSEOUT |
| CHECKED BY | ACB |
| REVISION | RECORD SET |
| SHEET NO. | |

C5.03R

\\CDAFILES\Public\Projects\JUB\20-16-071 Mica Supervisory Office\CAD\Sheet\20-16-071-C-50XR.dwg plotted by: abaden on Thu, August 23 2018 at 07:16 PM

## GENERAL NOTES:

1. THIS DETAIL PERTAINS TO SEPARATION REQUIREMENTS FOR POTABLE WATER AND NON-POTABLE WATER PIPELINES LOCATED WITHIN PUBLIC RIGHTS OF WAY. THE TERM "PIPELINE" APPLIES TO BOTH MAINS AND SERVICES.
2. REFER TO IDAPA 58.01.08.542.07 (IDAHO RULES FOR PUBLIC DRINKING WATER SYSTEMS) AND IDAPA 58.01.16.430.02.O (IDAHO WASTEWATER RULES) FOR ALL SEPARATION REQUIREMENTS.
3. ANY CONDITIONS NOT MEETING THESE TYPICAL SEPARATION REQUIREMENTS MUST HAVE IDEQ SITE SPECIFIC APPROVAL (EG SKEWED CROSSINGS, I.E. NO AT 90°).
4. NON-POTABLE MAINS ARE PROHIBITED FROM BEING LOCATED IN THE SAME TRENCH AS POTABLE MAINS. NEW POTABLE SERVICES ARE PROHIBITED FROM BEING LOCATED IN THE SAME TRENCH AS NON-POTABLE MAINS OR NON-POTABLE SERVICES.
5. PRESSURE SEWAGE MAINS SHALL BE NO CLOSER HORIZONTALLY THAN TEN (10) FEET AND NO CLOSER VERTICALLY THAN EIGHTEEN (18) INCHES FROM POTABLE MAINS.
6. EXISTING POTABLE SERVICES IN RELATION TO NEW NON-POTABLE MAINS, EXISTING NON-POTABLE SERVICES IN RELATION TO NEW POTABLE MAINS, AND EXISTING POTABLE SERVICES IN RELATION TO NEW NON-POTABLE SERVICES SHALL MEET THE REQUIREMENTS OF IDAPA 58.01.16.430.02.o.ii., WHERE PRACTICAL, BASED ON COST, CONSTRUCTION FACTORS, AND PUBLIC HEALTH SIGNIFICANCE. IF THE DEPARTMENT (IDEQ) DETERMINES THAT THERE ARE SIGNIFICANT HEALTH CONCERNS WITH THESE SERVICES, SUCH AS WHERE A LARGE EXISTING SERVICE SERVES AN APARTMENT BUILDING OR A SHOPPING CENTER, THEN THE DESIGN SHALL CONFORM WITH IDAPA 58.01.16.430.02.o.ii.

## HORIZONTAL SEPARATION REQUIREMENT NOTES (REFERENCE: IDAPA 58.01.16.430.o.i):

- NON-POTABLE MAINS IN RELATION TO POTABLE MAINS:
  - ZONE 1: GREATER THAN TEN (10) FEET SEPARATION: NO ADDITIONAL REQUIREMENTS BASED ON SEPARATION DISTANCE.
  - ZONE 2: TEN (10) FEET TO SIX (6) FEET SEPARATION: SEPARATE TRENCHES, WITH BOTTOM OF THE POTABLE MAIN ABOVE THE TOP OF THE NON-POTABLE MAIN, AND NON-POTABLE MAIN CONSTRUCTED WITH POTABLE-WATER CLASS PIPE.
  - ZONE 3: LESS THAN SIX (6) FEET SEPARATION: DESIGN ENGINEER TO SUBMIT DATA TO THE DEPARTMENT FOR REVIEW AND APPROVAL THAT THIS INSTALLATION WILL PROTECT PUBLIC HEALTH AND ENVIRONMENT AND NON-POTABLE MAIN CONSTRUCTED WITH POTABLE-WATER CLASS PIPE.
- NEW NON-POTABLE SERVICES IN RELATION TO POTABLE SERVICES, NEW NON-POTABLE SERVICES IN RELATION TO POTABLE MAINS, AND NEW POTABLE SERVICES IN RELATION TO NON-POTABLE MAINS.
  - ZONE 2: GREATER THAN SIX (6) FEET SEPARATION: NO ADDITIONAL REQUIREMENTS BASED ON SEPARATION DISTANCES.
  - ZONE 3: LESS THAN SIX (6) FEET SEPARATION: DESIGN ENGINEER TO SUBMIT DATA THAT THIS INSTALLATION WILL PROTECT PUBLIC HEALTH AND THE ENVIRONMENT AND NON-POTABLE SERVICE CONSTRUCTED WITH POTABLE WATER CLASS PIPE.

## VERTICAL SEPARATION REQUIREMENT NOTES (REFERENCE: IDAPA 58.01.16.430.o.ii):

ZONE 1: EIGHTEEN (18) INCHES OR MORE VERTICAL SEPARATION WITH POTABLE PIPELINE ABOVE NON-POTABLE PIPELINE: NON-POTABLE PIPELINE JOINT TO BE AS FAR AS POSSIBLE FROM THE POTABLE WATER PIPELINE.

ZONE 2: EIGHTEEN (18) INCHES OR MORE VERTICAL SEPARATION WITH POTABLE WATER PIPELINE BELOW NON-POTABLE PIPELINE: NON-POTABLE PIPELINE JOINT TO BE AS FAR AS POSSIBLE FROM THE POTABLE WATER PIPELINE, AND NON-POTABLE PIPELINE MUST BE SUPPORTED THROUGH THE CROSSING TO PREVENT SETTLING.

ZONE 3: LESS THAN EIGHTEEN (18) INCHES VERTICAL SEPARATION:

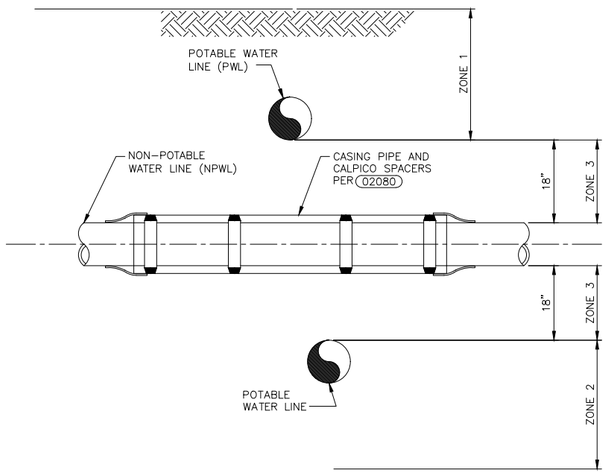
a) NON-POTABLE PIPELINE JOINT TO BE AS FAR AS POSSIBLE FROM THE POTABLE WATER PIPELINE; AND EITHER

b) NON-POTABLE PIPELINE CONSTRUCTED WITH POTABLE WATER CLASS PIPE FOR A MINIMUM OF TEN (10) FEET EITHER SIDE OF POTABLE PIPELINE WITH A SINGLE TWENTY (20) FOOT SECTION OF POTABLE WATER CLASS PIPE CENTERED ON THE CROSSING; OR

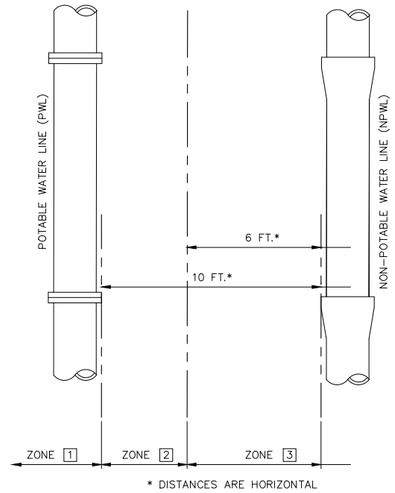
c) SLEEVE NON-POTABLE OR POTABLE PIPELINE WITH POTABLE WATER CLASS PIPE FOR TEN (10) FEET EITHER SIDE OF CROSSING. USE OF HYDRAULIC CEMENTITIOUS MATERIALS SUCH AS CONCRETE, CONTROLLED DENSITY FILL, AND CONCRETE SLURRY ENCASEMENT IS NOT ALLOWED AS A SUBSTITUTE FOR SLEEVING.

d) IF THE POTABLE PIPELINE IS BELOW NON-POTABLE PIPELINE, THE NON-POTABLE PIPELINE MUST ALSO BE SUPPORTED THROUGH THE CROSSING TO PREVENT SETTLING.

02010 IDAHO DEPARTMENT OF ENVIRONMENTAL QUALITY (IDEQ)
POTABLE AND NON-POTABLE WATER LINE (NPWL) SEPARATION REQUIREMENTS (LAST REVISION 05/28/2015)
NOT TO SCALE

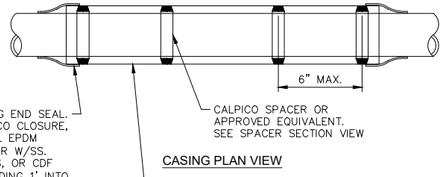



VERTICAL SEPARATION REQUIREMENTS

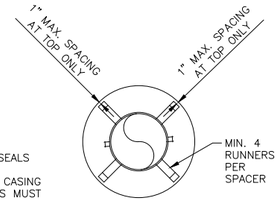



* DISTANCES ARE HORIZONTAL

HORIZONTAL SEPARATION REQUIREMENTS



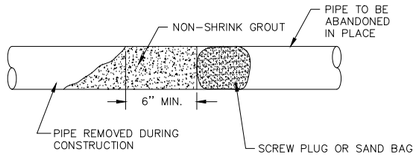

CASING PLAN VIEW




SPACER SECTION VIEW

NOTE:
ALL MANUFACTURED SPACERS AND END SEALS TO BE INSTALLED PER MANUFACTURERS GUIDELINES. ANY PIPE JOINTS INSIDE OF CASING MUST BE FULLY RESTRAINED OR ANNULUS MUST BE COMPLETELY FILLED WITH SAND.

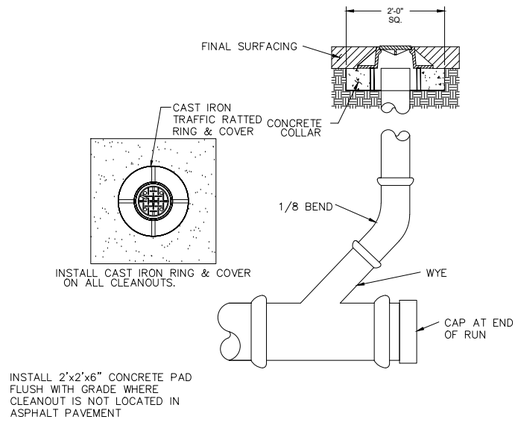
02080 PIPE CASING DETAIL
NOT TO SCALE




NOTE:
EXPOSE BOTH ENDS OF PIPE TO BE ABANDONED IN PLACE AND PLUG.

02115 PIPE ABANDONMENT PLUG
NOT TO SCALE

NOTES:
1. PIPE AND FITTINGS SHALL BE OF THE SAME MATERIAL AS THE GRAVITY DRAIN.
2. IF IN A PAVED AREA, RECESS LID ¼" BELOW FINISH GRADE.




C2 CLEANOUT ASSEMBLY
SCALE:N.T.S.

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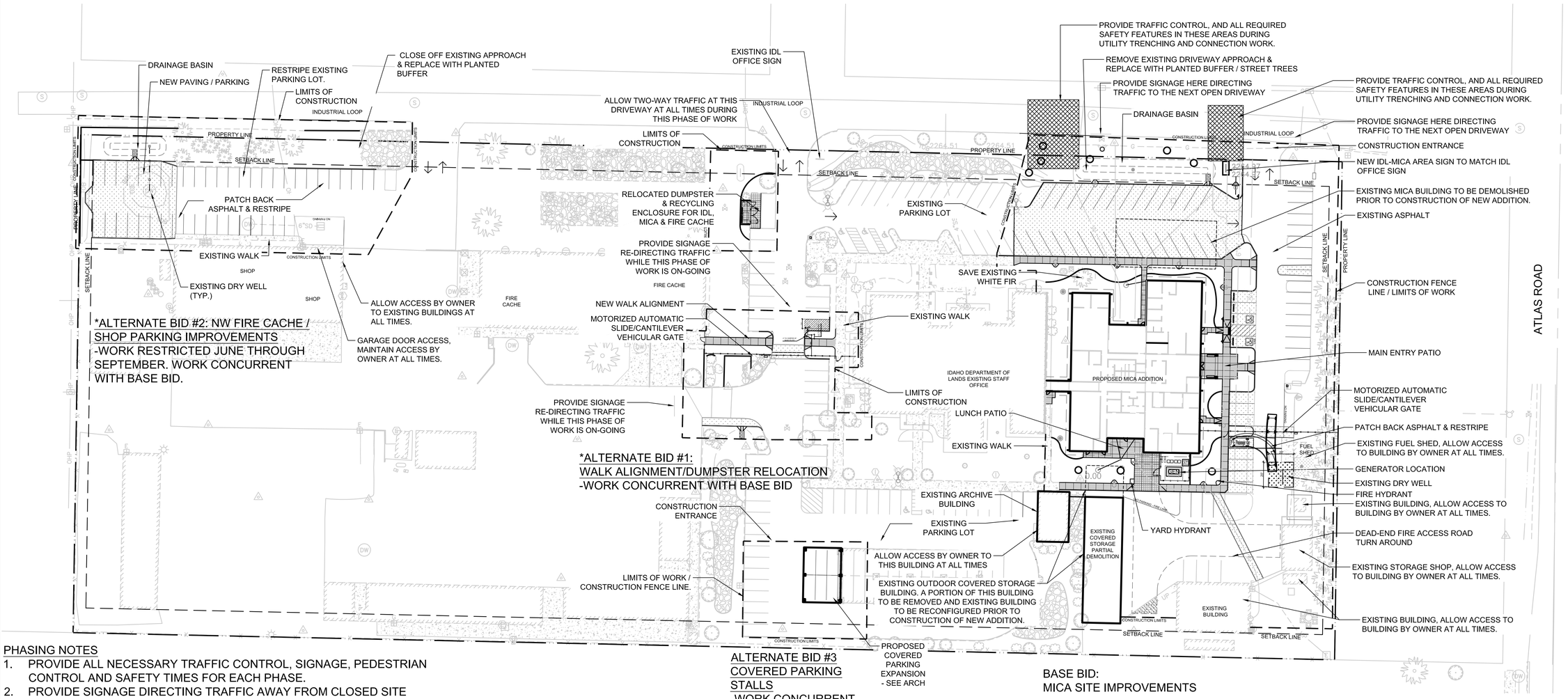
IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500
**DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE**
**3284 INDUSTRIAL LOOP, COEUR D'ALENE ID, 83815**

# STANDARD DETAILS

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | ACB |
| DRAWN BY | BCLARK |
| ISSUE DATE | 08.27.18 |
| PHASE | CLOSEOUT |
| CHECKED BY | ACB |
| REVISION | RECORD SET |
| SHEET NO. | |

C5.04R


\\CDAFILES\Public\Projects\JUB\20-16-071 Mica Supervisory Office\CAD\Sheet\20-16-071-C-50XR.dwg plotted by: abaden on Thu, August 23 2018 at 07:16 PM




PHASING NOTES

1. PROVIDE ALL NECESSARY TRAFFIC CONTROL, SIGNAGE, PEDESTRIAN CONTROL AND SAFETY TIMES FOR EACH PHASE.
2. PROVIDE SIGNAGE DIRECTING TRAFFIC AWAY FROM CLOSED SITE ENTRANCES, AND TOWARD OPEN ENTRANCES.
3. ALLOW OWNER ACCESS TO ALL EXISTING BUILDINGS TO REMAIN, AT ALL TIMES.
4. WORK IN AREAS OCCUPIED BY OWNER IN ALTERNATIVES #1,#2, #3 WILL REQUIRE CLOSE COORDINATION WITH THE OWNER TO MAINTAIN OWNER'S ACCESS.

*ALTERNATE BID #1 & #2 PHASING NOTE:
THE CONTRACTOR SHALL SEQUENCE THE WORK TO KEEP ONE ACCESS DRIVE OPEN AT ALL TIMES.

CONSTRUCTION START: AUGUST 1, 2017
SUBSTANTIAL COMPLETION: JUNE 1, 2018
DURATION: 10 MONTHS; 43 WEEKS; 304 CALENDAR DAYS

SCALE: 1" = 40'

NORTH

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- Surveyor
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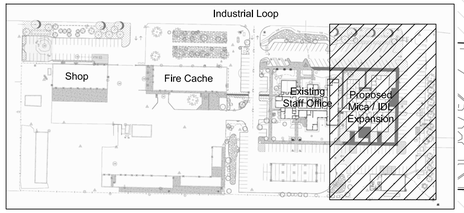
IDAHO DEPARTMENT OF LANDS DPW PROJECT #17-500

**DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE**
**3284 INDUSTRIAL LOOP, COEUR D'ALENE ID, 83815**

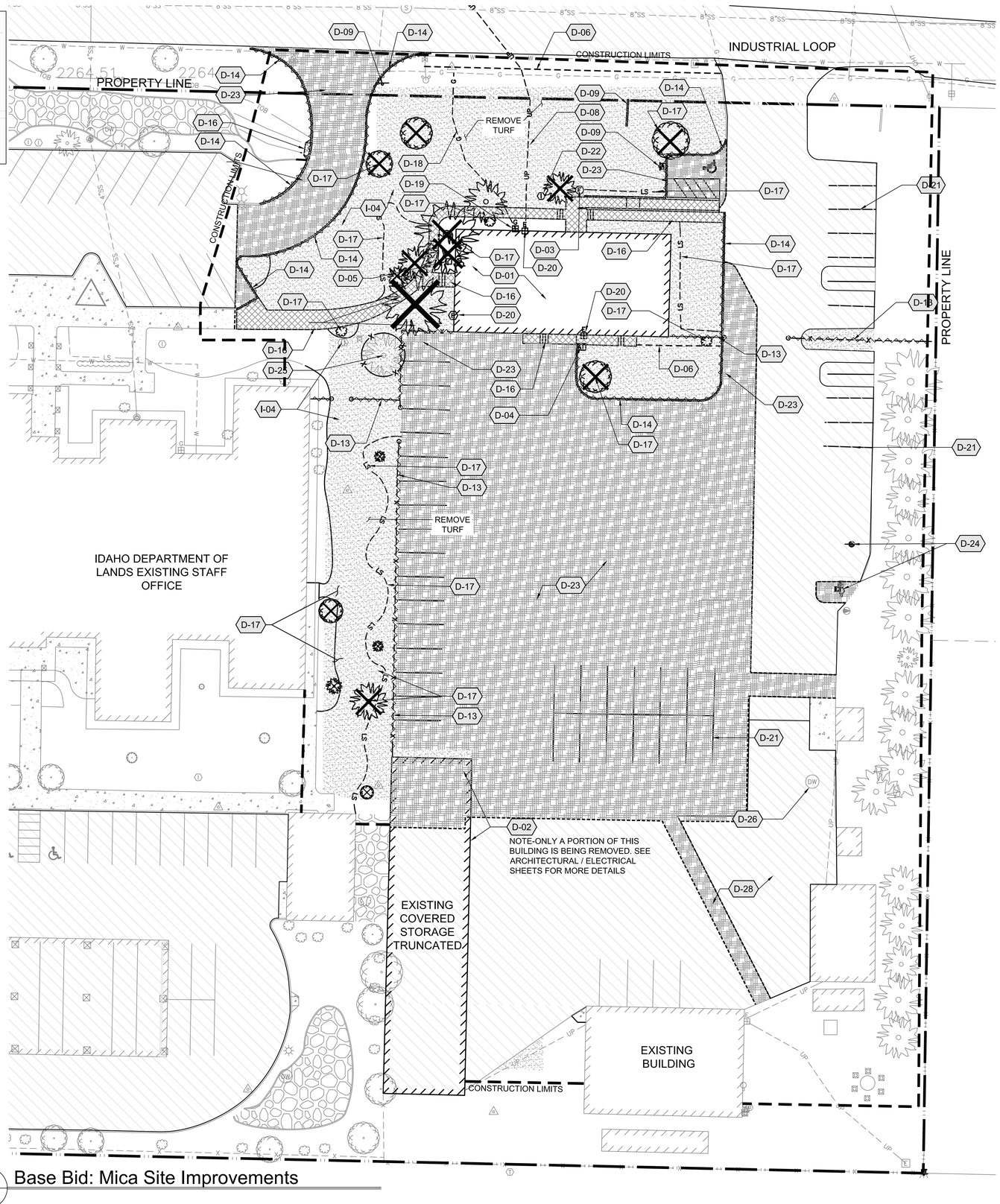
OVERALL SITE PLAN

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | KD |
| DRAWN BY | MP |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | |
| REVISION | RECORD SET |
| SHEET NO. | L1.00 |

S:\1658 ID Dept of Lands\Site\1658 Layout Plan.dwg plotted by: markp on Mon, August 20 2018 at 08:07 AM




KeyMap




1 L1.01 Base Bid: Mica Site Improvements

# DEMOLITION KEYED NOTES

| SYMBOL | DESCRIPTION | QTY |
|---|---|---|
| D-01 | DEMOLISH AND REMOVE FROM SITE EXISTING BUILDING IN ITS ENTIRETY, INLCUDING FOOTINGS, FOUNDATION WALLS AND ROOFS. ALL UNDERGROUND UTILITIES SHALL BE REMOVED. FILL EXCAVATIONS WITH APPROVED FILL MATERIAL AS SPECIFIED UNDER DIVISION 31 - EARTHWORK. CONTRACTOR IS RESPONSIBLE FOR INVESTIGATING EXISTING STRUCTURE IN ENOUGH DETAIL TO DETERMINE TYPE OF EXISTING CONSTRUCTION AND LIMITS OF EXISTING STRUCTURE - COORDINATE W/PHASING PLAN | |
| D-02 | PARTIAL DEMO OF COVERED STORAGE BUILDING. SEE ARCHITECTURAL / ELECTRICAL SHEETS | |
| D-03 | REMOVE EXISTING FLAGPOLE - COORDINATE W/OWNER FOR SALVAGE | |
| D-04 | REMOVE AND SALVAGE EXISTING RADIO ANTENNAE. COORDINATE W/OWNER FOR POTENTIAL STORAGE. | |
| D-05 | REMOVE EXISTING HVAC UNIT | |
| D-06 | REMOVE AND SALVAGE EXISTING LANDSCAPE TIMBERS FOR RE-INSTALLATION BY OTHERS. STORE ON-SITE AS DIRECTED BY ARCHITECT. | |
| D-08 | REMOVE EXISTING UNDERGROUND POWER PER ELECTRICAL AND CIVIL SITE PLANS (ED100 / C1.01) | |
| D-09 | REMOVE EXISTING SIGN- COORDINATE W/OWNER FOR POTENTIAL SALVAGE | |
| D-13 | REMOVE EXISTING CHAINLINK FENCING / ROLLER GATE / FENCE STOPPER POST - COORDINATE W/OWNER FOR SALVAGE | |
| D-14 | REMOVE EXISTING CONCRETE CURBING | |
| D-16 | REMOVE EXISTING CONCRETE PAVING (HATCHED AREA) / CONCRETE STAIRS | |
| D-17 | REMOVE EXISTING LANDSCAPE (TREE, SHRUB, EDGE, MULCH) | |
| D-18 | REMOVE EXISTING NATURAL GAS LINE, COORDINATE W/ CIVIL CIVIL SHEETS | |
| D-19 | REMOVE EXISTING NATURAL GAS METER. SEE CIVIL | |
| D-20 | REMOVE EXISTING ELECTRIC METER. COORDINATE WITH ELECTRICAL AND CIVIL. | |
| D-21 | REMOVE EXISTING PAVEMENT MARKINGS | |
| D-22 | REMOVE EXISTING IRRIGATION METER | |
| D-23 | REMOVE EXISTING ASPHALT / BASE COURSE (HATCHED AREA) AND OVEREXCAVATE AS SPECIFIED WHEN LOCATED IN PROPOSED LANDSCAPE AREA | |
| D-24 | REMOVE EXISTING HOSE DRYING TOWER AND ASSOCIATED WATER HYDRANTS - COORDINATE W/OWNER FOR SALVAGE | |
| D-25 | SAVE AND PROTECT EXISTING TREE | |
| D-26 | SAVE AND PROTECT EXISTING DRY WELL | |
| D-28 | INTERCEPT AND MARK EXISTING TELECOMMUNICATIONS CONDUIT FROM MICA BUILDING TO THE EXISTING BUILDING FOR FUTURE RECONNECTION FROM THE OFFICE EXPANSION. SEE ELECTRICAL SHEETS | |

Irrigation

| SYMBOL | DESCRIPTION | QTY |
|---|---|---|
| I-04 | REMOVE EXISTING IRRIGATION HEADS, VALVES, AND / OR LATERAL LINES IN THIS LOCATION - SEE IRRIGATION / DEMOLITION PLANS FOR MORE INFORMATION. COORDINATE W/OWNER FOR SALVAGE OF HEADS & VALVES. | |

Demolition

| SYMBOL | DESCRIPTION | QTY |
|---|---|---|
| | APPROXIMATE AREA OF CONCRETE AND BASE COURSE REMOVAL | 1,483 sf |
| | APPROXIMATE AREA OF ASPHALT AND BASE COURSE REMOVAL. | 25,880 sf |
| | APPROXIMATE AREA OF LANDSCAPE REMOVAL (GRAVEL / MULCH / TURF / IRRIGATION REMOVAL) | 15,144 sf |
| | EXISTING ASPHALT TO REMAIN | |

# DEMOLITION NOTES

1. NOT ALL ITEMS TO BE DEMOLISHED ARE NOTED. CONTRACTOR IS RESPONSIBLE FOR REVIEWING ALL DOCUMENTS AND EXISTING CONDITIONS. COORDINATE ALL DEMOLITION, GRADING, AND EARTHWORK OPERATIONS WITH CIVIL, MECHANICAL, AND ELECTRICAL ENGINEERING SHEETS AS NECESSARY TO ACHIEVE FINISHED PRODUCT.
2. CONTRACTOR SHALL REFER TO SPECIFICATIONS AND DETAILS FOR ADDITIONAL REQUIREMENTS.
3. LIMITS OF WORK ARE IDENTIFIED ON PLANS.
4. IN AREAS WHERE DEMOLITION WORK WILL OCCUR ON OR ADJACENT TO PROTECTED TREES, REFER TO TREE PROTECTION DETAIL AND PROTECT TO THE GREATEST EXTENT POSSIBLE.
5. CONTRACTOR TO INSURE THAT ALL TURF AND LANDSCAPE AREAS WITHIN CONSTRUCTION LIMITS THAT ARE TO REMAIN AS PART OF THE FINAL LANDSCAPE ARE WATERED, WEEDED AND PROTECTED FROM CONSTRUCTION ACTIVITIES.
6. COORDINATE DEMOLITION WITH PHASING PLAN.

# DEMOLITION LEGEND

- EXISTING TREE TO REMAIN. SAVE & PROTECT PER DETAIL L1.43
- REMOVE EXISTING TREE
- REMOVE CONCRETE CURB / FENCING
- CONSTRUCTION LIMITS
- SAWCUT LOCATION
- CHAINLINK FENCE TO REMOVE

0 20 40 60 feet

SCALE: 1" = 20'

NORTH

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IDAHO DEPARTMENT OF LANDS DPW PROJECT #17-500

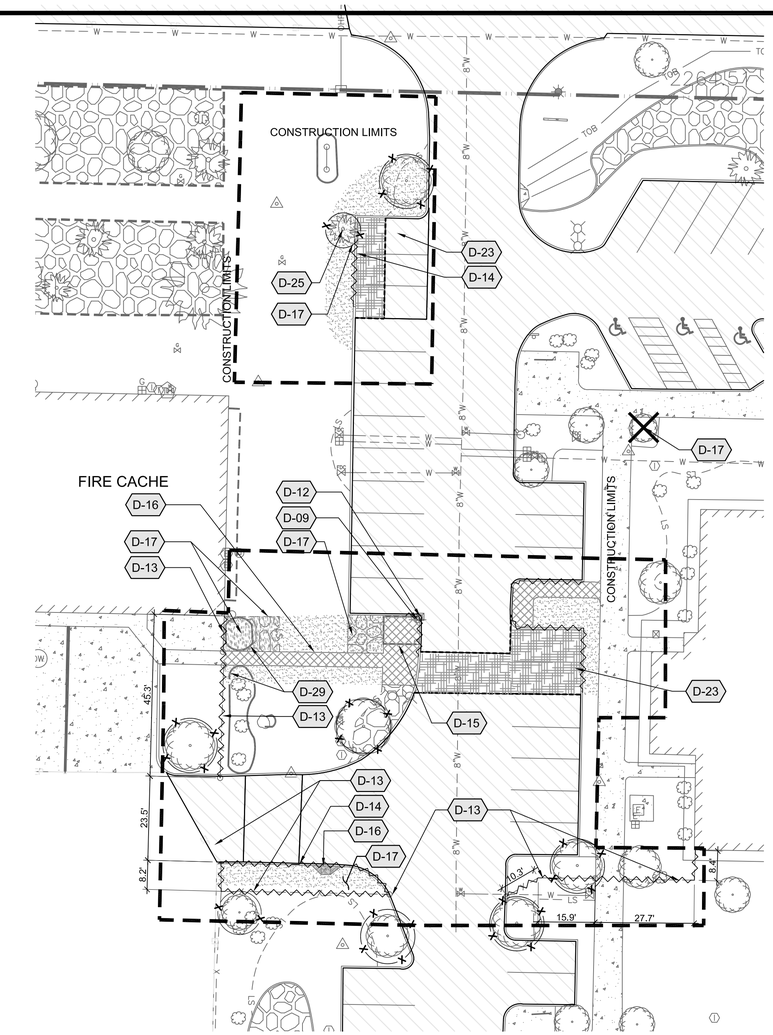
**DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE**
**3284 INDUSTRIAL LOOP, COEUR D'ALENE ID, 83815**

BASE BID: MICA SITE IMPROVEMENTS - DEMOLITION PLAN

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | KD |
| DRAWN BY | MP |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | |
| REVISION | RECORD SET |

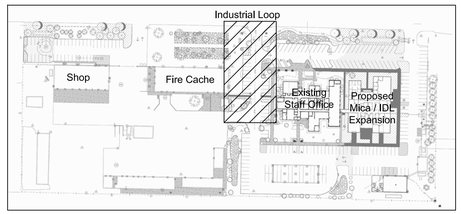
SHEET NO.
L1.01

S:\1658 ID Dept of Lands\Site\1658 Demo Plan.dwg plotted by: markp on Mon, August 20 2018 at 09:12 AM




1 L1.02 Alternate Bid #1: Access Control & Dumpster Relocation

SCALE: 1"=20'




KeyMap

## DEMOLITION KEYED NOTES

| SYMBOL | DESCRIPTION | QTY |
|---|---|---|
| D-09 | REMOVE EXISTING SIGN- COORDINATE W/OWNER FOR POTENTIAL SALVAGE | |
| D-12 | REMOVE EXISTING BOLLARDS (5) | |
| D-13 | REMOVE EXISTING CHAINLINK FENCING / ROLLER GATE / FENCE STOPPER POST - COORDINATE W/OWNER FOR SALVAGE | |
| D-14 | REMOVE EXISTING CONCRETE CURBING | |
| D-15 | REMOVE EXISTING DUMPSTER ENCLOSURE | |
| D-16 | REMOVE EXISTING CONCRETE PAVING (HATCHED AREA) / CONCRETE STAIRS | |
| D-17 | REMOVE EXISTING LANDSCAPE (TREE, SHRUB, EDGE, MULCH) | |
| D-23 | REMOVE EXISTING ASPHALT / BASE COURSE (HATCHED AREA) AND OVEREXCAVATE AS SPECIFIED WHEN LOCATED IN PROPOSED LANDSCAPE AREA | |
| D-25 | SAVE AND PROTECT EXISTING TREE | |
| D-29 | REMOVE EXISTING CONCRETE BLOCK LANDSCAPE PLANTER WALL - STORE ON SITE AND REUSE BLOCK IN NEW LOCATION | |

| SYMBOL | DESCRIPTION | QTY |
|---|---|---|
| | APPROXIMATE AREA OF CONCRETE AND BASE COURSE REMOVAL | 539 sf |
| | APPROXIMATE AREA OF ASPHALT AND BASE COURSE REMOVAL. | 865 sf |
| | APPROXIMATE AREA OF LANDSCAPE REMOVAL (GRAVEL / MULCH / TURF / IRRIGATION REMOVAL) | 2,088 sf |
| | EXISTING ASPHALT TO REMAIN | |

## DEMOLITION NOTES

1. NOT ALL ITEMS TO BE DEMOLISHED ARE NOTED. CONTRACTOR IS RESPONSIBLE FOR REVIEWING ALL DOCUMENTS AND EXISTING CONDITIONS. COORDINATE ALL DEMOLITION, GRADING, AND EARTHWORK OPERATIONS WITH CIVIL, MECHANICAL, AND ELECTRICAL ENGINEERING SHEETS AS NECESSARY TO ACHIEVE FINISHED PRODUCT.
2. CONTRACTOR SHALL REFER TO SPECIFICATIONS AND DETAILS FOR ADDITIONAL REQUIREMENTS.
3. LIMITS OF WORK ARE IDENTIFIED ON PLANS.
4. IN AREAS WHERE DEMOLITION WORK WILL OCCUR ON OR ADJACENT TO PROTECTED TREES, REFER TO TREE PROTECTION DETAIL AND PROTECT TO THE GREATEST EXTENT POSSIBLE.
5. CONTRACTOR TO INSURE THAT ALL TURF AND LANDSCAPE AREAS WITHIN CONSTRUCTION LIMITS THAT ARE TO REMAIN AS PART OF THE FINAL LANDSCAPE ARE WATERED, WEEDED AND PROTECTED FROM CONSTRUCTION ACTIVITIES.
6. COORDINATE DEMOLITION WITH PHASING PLAN.

## DEMOLITION LEGEND

EXISTING TREE TO REMAIN, SAVE & PROTECT PER DETAIL L1.43
REMOVE EXISTING TREE

REMOVE CONCRETE CURB / FENCING

CONSTRUCTION LIMITS

SAWCUT LOCATION

0 20 40 60 feet

SCALE: 1" = 20'

NORTH

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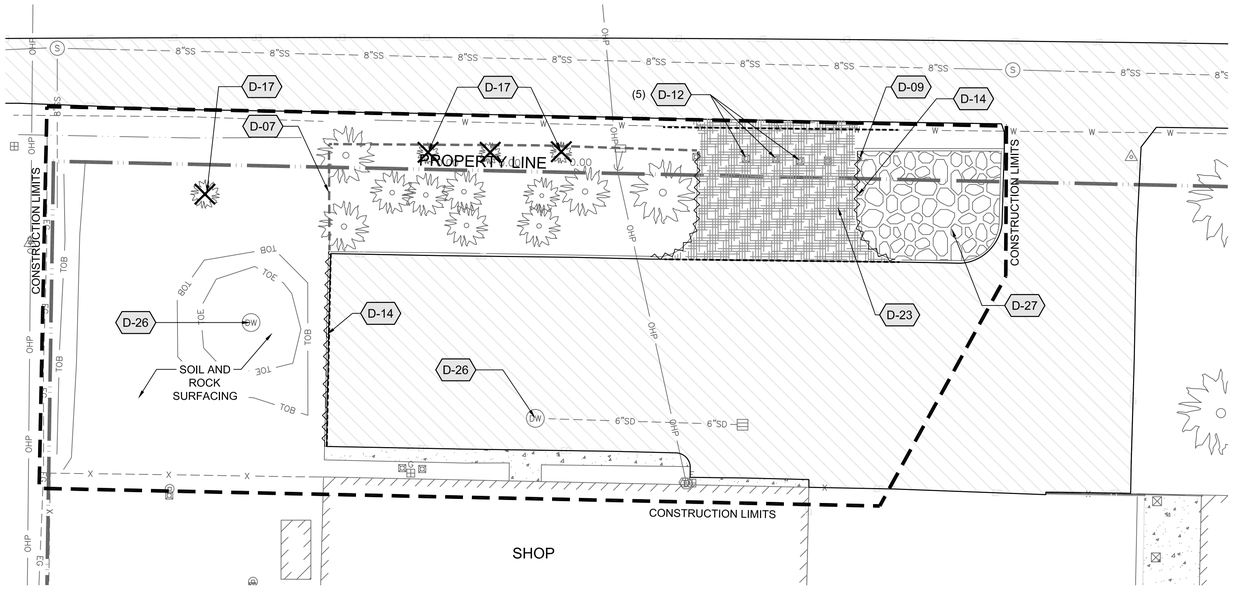
IDAHO DEPARTMENT OF LANDS DPW PROJECT #17-500

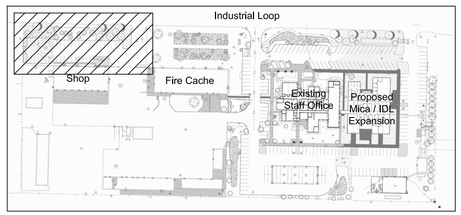
**DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE**

**3284 INDUSTRIAL LOOP, COEUR D'ALENE ID, 83815**

ACCESS CONTROL - DEMOLITION PLAN

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | KD |
| DRAWN BY | MP |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | |
| REVISION | RECORD SET |
| SHEET NO. | L1.02 |

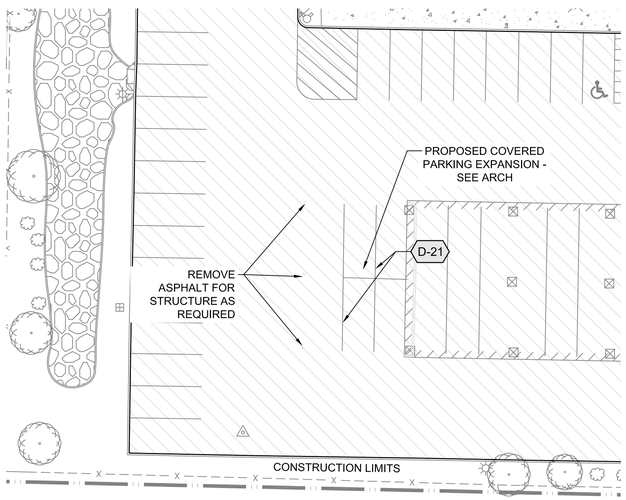


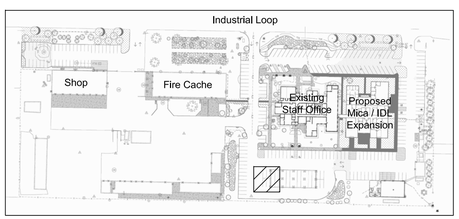




KeyMap

## 1 Alternate Bid #2: NW Fire Cache/Shop Parking Improvements

L1.03 SCALE: 1"=20'




KeyMap

## 2 Alternate Bid #3: Covered Parking Expansion

L1.03 SCALE: 1"=20'

# DEMOLITION KEYED NOTES

- D-07 REMOVE / SAVE / REUSE EXISTING LANDSCAPE TIMBERS
- D-09 REMOVE EXISTING SIGN- COORDINATE W/OWNER FOR POTENTIAL SALVAGE
- D-12 REMOVE EXISTING BOLLARDS (5)
- D-14 REMOVE EXISTING CONCRETE CURBING
- D-17 REMOVE EXISTING LANDSCAPE (TREE, SHRUB, EDGE, MULCH)
- D-21 REMOVE EXISTING PAVEMENT MARKINGS
- D-23 REMOVE EXISTING ASPHALT / BASE COURSE (HATCHED AREA) AND OVEREXCAVATE AS SPECIFIED WHEN LOCATED IN PROPOSED LANDSCAPE AREA
- D-26 SAVE AND PROTECT EXISTING DRY WELL
- D-27 SAVE AND PROTECT EXISTING ROCK MULCH

| SYMBOL | DESCRIPTION | QTY |
|---|---|---|
| | APPROXIMATE AREA OF ASPHALT AND BASE COURSE REMOVAL. | 1,776 sf |
| | EXISTING ASPHALT TO REMAIN | |
| | EXISTING RIVER ROCK MULCH TO REMAIN | |

# DEMOLITION NOTES

1. NOT ALL ITEMS TO BE DEMOLISHED ARE NOTED. CONTRACTOR IS RESPONSIBLE FOR REVIEWING ALL DOCUMENTS AND EXISTING CONDITIONS. COORDINATE ALL DEMOLITION, GRADING, AND EARTHWORK OPERATIONS WITH CIVIL, MECHANICAL, AND ELECTRICAL ENGINEERING SHEETS AS NECESSARY TO ACHIEVE FINISHED PRODUCT.
2. CONTRACTOR SHALL REFER TO SPECIFICATIONS AND DETAILS FOR ADDITIONAL REQUIREMENTS.
3. LIMITS OF WORK ARE IDENTIFIED ON PLANS.
4. IN AREAS WHERE DEMOLITION WORK WILL OCCUR ON OR ADJACENT TO PROTECTED TREES, REFER TO TREE PROTECTION DETAIL AND PROTECT TO THE GREATEST EXTENT POSSIBLE.
5. CONTRACTOR TO INSURE THAT ALL TURF AND LANDSCAPE AREAS WITHIN CONSTRUCTION LIMITS THAT ARE TO REMAIN AS PART OF THE FINAL LANDSCAPE ARE WATERED, WEEDED AND PROTECTED FROM CONSTRUCTION ACTIVITIES.
6. COORDINATE DEMOLITION WITH PHASING PLAN.

# DEMOLITION LEGEND

- EXISTING TREE TO REMAIN. SAVE & PROTECT PER DETAIL L1.43
- REMOVE EXISTING TREE
- REMOVE CONCRETE CURB / FENCING
- CONSTRUCTION LIMITS
- SAWCUT LOCATION

0 20 40 60 feet

SCALE: 1" = 20'

NORTH

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IDAHO DEPARTMENT OF LANDS DPW PROJECT #17-500

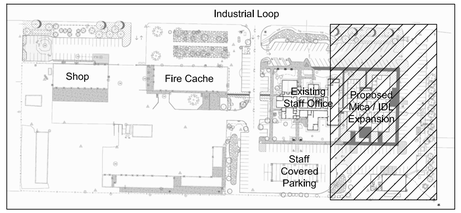
**DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE**

**3284 INDUSTRIAL LOOP, COEUR D'ALENE ID, 83815**

FIRE CACHE / COVERED PARKING - DEMOLITION PLAN

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | KD |
| DRAWN BY | MP |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | |
| REVISION | RECORD SET |
| SHEET NO. | L1.03 |

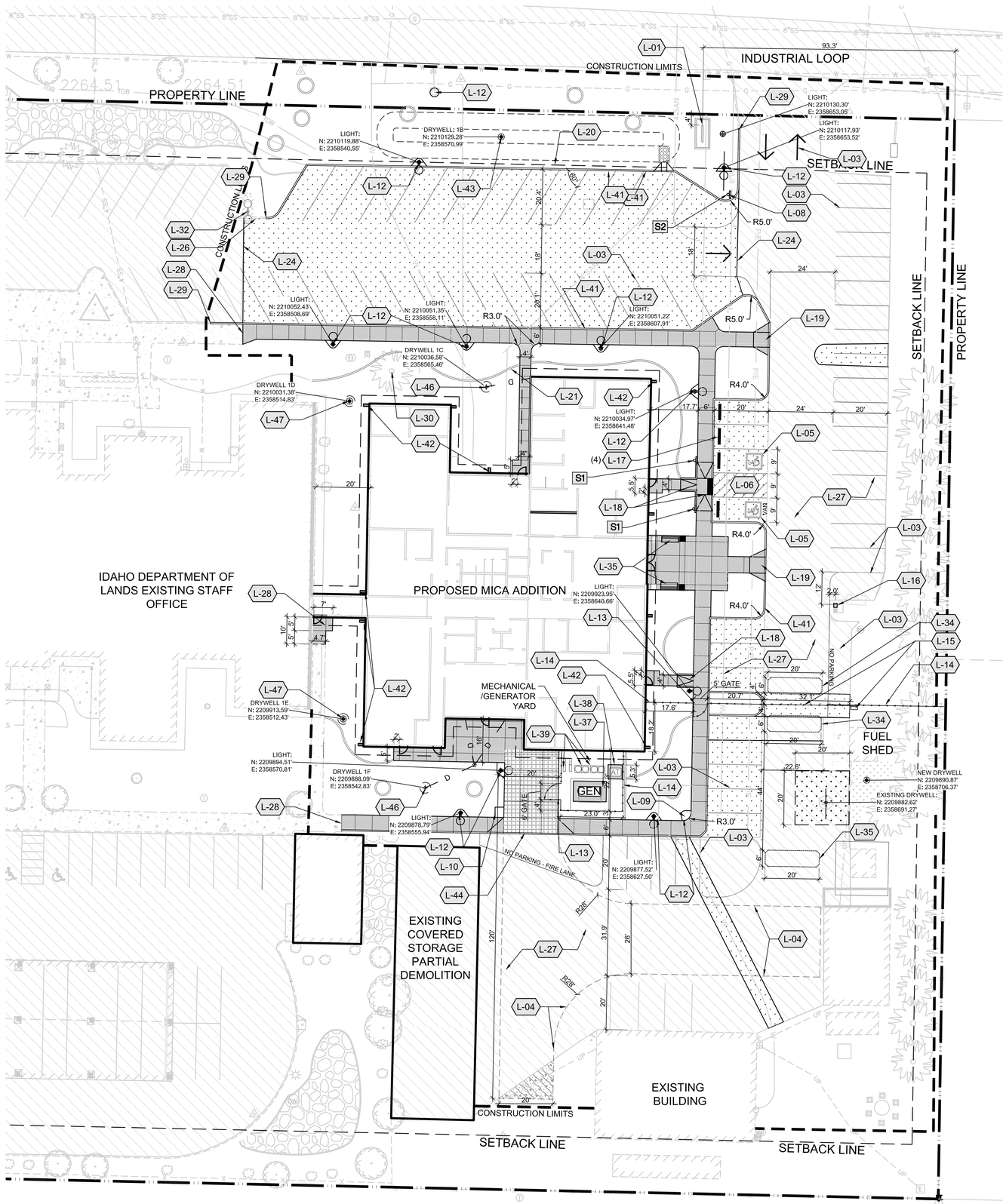
S:\1658 ID Dept of Lands\Site\1658 Demo Plan.dwg plotted by: markp on Mon, August 20 2018 at 09:12 AM




KeyMap

## LAYOUT GENERAL NOTES

1. REFER CLOSELY TO BUILDING LAYOUT DRAWINGS IN RELATION TO SITE LAYOUT ITEMS. CONTRACTOR TO VERIFY LISTED DIMENSIONS PRIOR TO CONSTRUCTION.
2. CONTRACTOR TO VERIFY LOCATION OF ALL UTILITIES PRIOR TO INITIATION OF ANY DEMOLITION OR CONSTRUCTION OPERATIONS. ANY DAMAGE TO EXISTING UTILITIES ON SITE OR ADJACENT PROPERTY SHALL BE CONTRACTOR'S RESPONSIBILITY.
3. COORDINATE INSTALLATION OF ELECTRICAL AND IRRIGATION CONDUIT AND SLEEVES WITH RESPECTIVE CONTRACTORS.
4. CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION STAKING.
5. ALL DIMENSIONS ARE TO FACE OF CURB, EDGE OF WALK, EDGE OF PAVEMENT, EDGE OF FOUNDATION, EDGE OF WALLS OR CENTER OF POST.
6. CONTRACTOR RESPONSIBLE FOR ANY DAMAGE TO NEW OR EXISTING IMPROVEMENTS INCLUDING LANDSCAPE AREAS AS A RESULT OF CONSTRUCTION ACTIVITIES.




0 20 40 60 feet

SCALE: 1" = 20'

NORTH

## LAYOUT LEGEND

- CONSTRUCTION LIMITS
- PROPERTY LINE (VERIFY)
- VERTICAL CURBING LOCATION
- N: 617.66' E: 2523.29' — COORDINATE POINT
- CONCRETE FLATWORK PER DETAIL; SCORE JOINT; EXPANSION JOINT
- CONCRETE WHEELSTOPS PER DETAIL
- SITE LIGHTING. SEE ELECTRICAL PLANS FOR MORE INFORMATION
- SIGN POST PER DETAIL
- S# — SIGN LOCATION. SEE DETAILS FOR SIGNAGE LEGEND.

## LAYOUT KEYED NOTES

| SYMBOL | DESCRIPTION | QTY | DETAIL |
|---|---|---|---|
| L-01 | NEW IDL-MICA AREA SIGN TO MATCH IDL OFFICE SIGN - PER DETAIL. COORDINATE W/ELECTRICAL SHEETS. | | 1/L1.13 |
| L-03 | INSTALL PARKING LOT STRIPING PER DETAIL, TYP. | | 2/L1.13 |
| L-04 | MAINTAIN ACCESS REQUIRED FOR DEAD-END FIRE ACCESS ROAD TURNAROUND (DASHED LINE & INFORMATION ONLY). SEE DETAIL | | 11/L1.13 |
| L-05 | INTERNATIONAL SYMBOL OF ACCESS PAINTED ON PAVING, SYMBOL AND BORDER SHALL BE WHITE, INSIDE BORDER SHALL BE BLUE, AND AISLES SHALL BE WHITE PER DETAIL | | 4/L1.13 |
| L-06 | ADA PARKING LAYOUT PER DETAIL | | 4/L1.13 |
| L-08 | INSTALL `DO NOT ENTER` SIGN PER DETAIL | | 3/L1.13 |
| L-09 | FIRE HYDRANT - SEE CIVIL SHEETS | | |
| L-10 | YARD HYDRANT - SEE CIVIL SHEETS | | |
| L-12 | INSTALL CONCRETE APRON AROUND LIGHT POST / FIRE HYDRANT FOOTING PER DETAIL | | 7/L1.13 |
| L-13 | INSTALL 6` HEIGHT CHAIN LINK SWING GATE. GATE WIDTH PER PLANS (W/ SITE OBSCURING SLATS ON DUMPSTER ENCLOSURE GATES & AT MECHANICAL/GENERATOR YARD LOCATIONS ONLY) | | |
| L-14 | INSTALL 6` HEIGHT CHAINLINK FENCE AS SPECIFIED. (W/ SITE OBSCURING SLATS ON DUMPSTER ENCLOSURE & AT MECHANICAL/GENERATOR YARD LOCATIONS ONLY) | | |
| L-15 | INSTALL 37`-6" MOTORIZED VEHICULAR CHAIN LINK SLIDE/CANTILEVER GATE AND OPERATOR. COORDINATE W/ ELECTRICAL SHEET E100 & OWNER FOR GATE ACCESS CONTROL SYSTEMS. | | |
| L-16 | GATE CARD READER / PEDESTAL FOR AUTOMATIC GATE - COORDINATE PEDESTAL COORDINATE W/ ELECTRICAL SHEET E100 & OWNER FOR GATE ACCESS CONTROL SYSTEMS. | | |
| L-17 | INSTALL CONCRETE WHEEL STOP PER DETAIL | | 8/L1.13 |
| L-18 | INSTALL CURBCUT RAMP TYPE `A` PER DETAIL | | 9/L1.13 |
| L-19 | INSTALL CURBCUT RAMP TYPE `B` PER DETAIL | | / |
| L-20 | INSTALL CURB CUT INLET PER DETAIL, TYP | | 1/L1.14 |
| L-21 | INSTALL CONCRETE LANDSCAPE EDGE | | 5/L1.43 |
| L-24 | PATCH BACK ASPHALT AS REQUIRED | | 8/L1.14 |
| L-26 | SAVE AND PROTECT EXISTING CURBING | | |
| L-27 | SAVE AND PROTECT EXISTING ASPHALT | | |
| L-28 | TIE NEW CONCRETE FLATWORK INTO EXISTING CONCRETE FLATWORK | | 3/L1.14 |
| L-29 | TIE NEW CONCRETE CURB INTO EXISTING CURB | | |
| L-30 | SAVE AND PROTECT EXISTING TREE PER DETAIL | | 4/L1.43 |
| L-32 | SAVE AND PROTECT EXISTING LIGHT POLE | | |
| L-34 | INSTALL 6`x20` SAWCUT REVERSE INDUCTANCE LOOP FOR SLIDE GATE 4`-0" FROM GATE TYP. | | |
| L-35 | INSTALL 6`x20` SAWCUT EXIT INDUCTANCE LOOP FOR SLIDE GATE | | |
| L-37 | GENERATOR & CONCRETE PAD - SEE ELECTRICAL | | |
| L-38 | 5`3" SQ. CONCRETE RADIO TOWER BASE. THICKNESS PER MANUFACTURERS RECOMMENDATION. | | |
| L-39 | MECHANICAL EQUIPMENT - COORDINATE W/ MECHANICAL SHEETS | | |
| L-41 | INSTALL VERTICAL CURB PER DETAIL | | 2/L1.14 |
| L-42 | INSTALL DOWNSPOUT SPLASH BLOCK & PER DETAIL AT ALL RAIN WATER LEADERS/DOWNSPOUTS | | 9/L1.14 |
| L-43 | SINGLE DRYWELL AS SPECIFIED PER DETAIL | | 4/L1.15 |
| L-44 | INSTALL DRIVE APPROACH PER DETAIL | | 6/L1.15 |
| L-46 | NDS FLO-WELL DRYWELL / SUMP FOR RAINWATER LEADER (MODEL FWAS24WH) | | |
| L-47 | NDS FLO-WELL DRYWELL (MODEL FWAS24WH) AND 18" DOMED ATRIUM GRATE (MODEL NDS 1881) | | 8/L1.15 |

| SYMBOL | Layout DESCRIPTION | QTY | DETAIL |
|---|---|---|---|
| | CONCRETE FLATWORK AS SPECIFIED AND PER DETAIL | 4,362 sf | 4/L1.14 |
| | 2 1/2" ASPHALT OVER 6" BASE COURSE SECTION, PER GEO TECHNICAL REPORT AND PER DETAIL | 13,512 sf | 6/L1.14 |
| | GRAVEL SURFACED FIRE LANE | 147 sf | 7/L1.14 |
| | REINFORCED CONCRETE AS SPECIFIED AND PER DETAIL. | 616 sf | 5/L1.14 |
| | EXISTING ASPHALT TO REMAIN | | |

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- Structural Engineer: DCI ENGINEERS 707 WEST 2ND AVENUE SPOKANE, WA, 99210 509.455.4448
- Mechanical Engineer: KARTCHNER ENGINEERING 6814 SOUTH JACKSON RIDGE LANE GREENACRES, WA, 99016 509.922.0383
- Electrical Engineer: TRINDERA ENGINEERING 1875 N LAKEWOOD DRIVE,, STE. 201 COEUR D'ALENE, ID, 83814 208.620.3314
- Surveyor: J-U-B ENGINEERS, INC. 7825 MEADOWLARK WAY COEUR D'ALENE, ID, 83815 208.672.8787

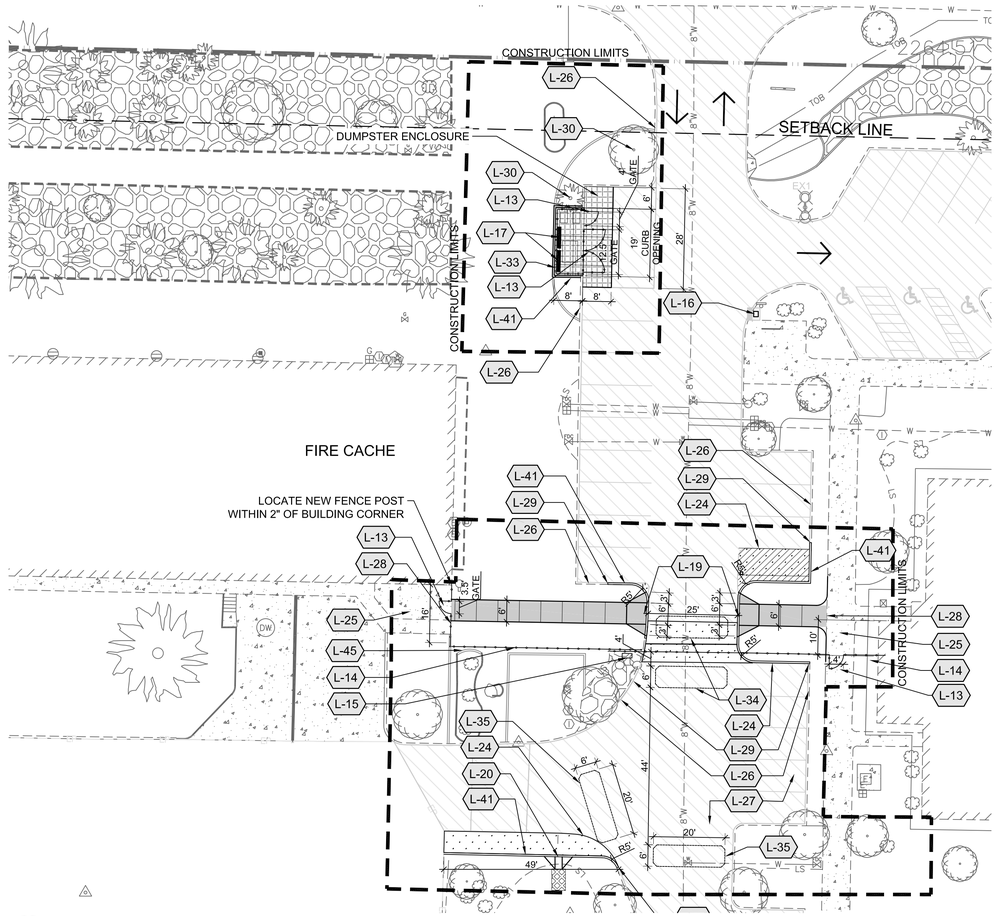
IDAHO DEPARTMENT OF LANDS DPW PROJECT #17-500

# DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE
## 3284 INDUSTRIAL LOOP, COEUR D'ALENE ID, 83815

BASE BID: MICA SITE IMPROVEMENTS - LAYOUT PLAN

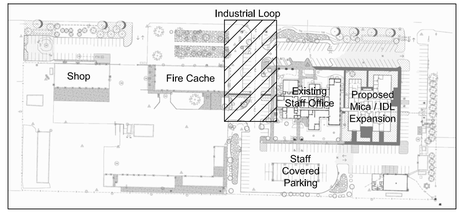
| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | KD |
| DRAWN BY | MP |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | |
| REVISION | RECORD SET |
| SHEET NO. | L1.10 |

S:\1658 ID Dept of Lands\Site\1658 Layout Plan.dwg plotted by: mariap on Mon, August 20 2018 at 09:16 AM




1 L1.11 Alternate Bid #1: Access Control & Dumpster Relocation

SCALE: 1"=20'




KeyMap

## LAYOUT LEGEND

- CONSTRUCTION LIMITS
- PROPERTY LINE (VERIFY)
- VERTICAL CURBING LOCATION
- N: 617.66' E: 2523.29' — COORDINATE POINT
- CONCRETE FLATWORK PER DETAIL; SCORE JOINT; EXPANSION JOINT
- CONCRETE WHEELSTOPS PER DETAIL
- SITE LIGHTING. SEE ELECTRICAL PLANS FOR MORE INFORMATION
- SIGN POST PER DETAIL
- S# — SIGN LOCATION. SEE DETAILS FOR SIGNAGE LEGEND.

## ACCESS CONTROL LAYOUT KEYED NOTES

| SYMBOL | DESCRIPTION | QTY | DETAIL |
|---|---|---|---|
| L-13 | INSTALL 6` HEIGHT CHAIN LINK SWING GATE. GATE WIDTH PER PLANS (W/ SITE OBSCURING SLATS ON DUMPSTER ENCLOSURE GATES & AT MECHANICAL/GENERATOR YARD LOCATIONS ONLY) | | |
| L-14 | INSTALL 6` HEIGHT CHAINLINK FENCE AS SPECIFIED. (W/ SITE OBSCURING SLATS ON DUMPSTER ENCLOSURE & AT MECHANICAL/GENERATOR YARD LOCATIONS ONLY) | | |
| L-15 | INSTALL 37`-6" MOTORIZED VEHICULAR CHAIN LINK SLIDE/CANTILEVER GATE AND OPERATOR. COORDINATE W/ ELECTRICAL SHEET E100 & OWNER FOR GATE ACCESS CONTROL SYSTEMS. | | |
| L-16 | GATE CARD READER / PEDESTAL FOR AUTOMATIC GATE - COORDINATE PEDESTAL COORDINATE W/ ELECTRICAL SHEET E100 & OWNER FOR GATE ACCESS CONTROL SYSTEMS. | | |
| L-17 | INSTALL CONCRETE WHEEL STOP PER DETAIL | | 8/L1.13 |
| L-19 | INSTALL CURBCUT RAMP TYPE `B` PER DETAIL | | / |
| L-20 | INSTALL CURB CUT INLET PER DETAIL, TYP | | 1/L1.14 |
| L-24 | PATCH BACK ASPHALT AS REQUIRED | | 8/L1.14 |
| L-25 | SAVE AND PROTECT EXISTING CONCRETE FLATWORK | | |
| L-26 | SAVE AND PROTECT EXISTING CURBING | | |
| L-27 | SAVE AND PROTECT EXISTING ASPHALT | | |
| L-28 | TIE NEW CONCRETE FLATWORK INTO EXISTING CONCRETE FLATWORK | | 3/L1.14 |
| L-29 | TIE NEW CONCRETE CURB INTO EXISTING CURB | | |
| L-30 | SAVE AND PROTECT EXISTING TREE PER DETAIL | | 4/L1.43 |
| L-33 | INSTALL 6`-0" HEIGHT CHAIN LINK ENCLOSURE WITH SITE OBSCURING SLATS | | |
| L-34 | INSTALL 6`x20` SAWCUT REVERSE INDUCTANCE LOOP FOR SLIDE GATE 4`-0" FROM GATE TYP. | | |
| L-35 | INSTALL 6`x20` SAWCUT EXIT INDUCTANCE LOOP FOR SLIDE GATE | | |
| L-41 | INSTALL VERTICAL CURB PER DETAIL | | 2/L1.14 |
| L-45 | REPAIR / REUSE CONCRETE BLOCK TO REPAIR WALL | | |

| SYMBOL | Layout DESCRIPTION | QTY | DETAIL |
|---|---|---|---|
| | REINFORCED CONCRETE AS SPECIFIED AND PER DETAIL | 379 sf | 5/L1.14 |
| | CONCRETE FLATWORK AS SPECIFIED AND PER DETAIL | 507 sf | 4/L1.14 |
| | 2 1/2" ASPHALT OVER 6" BASE COURSE SECTION, PER GEO TECHNICAL REPORT AND PER DETAIL | 567 sf | 6/L1.14 |
| | EXISTING ASPHALT TO REMAIN | | |

## LAYOUT GENERAL NOTES

1. REFER CLOSELY TO BUILDING LAYOUT DRAWINGS IN RELATION TO SITE LAYOUT ITEMS. CONTRACTOR TO VERIFY LISTED DIMENSIONS PRIOR TO CONSTRUCTION.
2. CONTRACTOR TO VERIFY LOCATION OF ALL UTILITIES PRIOR TO INITIATION OF ANY DEMOLITION OR CONSTRUCTION OPERATIONS. ANY DAMAGE TO EXISTING UTILITIES ON SITE OR ADJACENT PROPERTY SHALL BE CONTRACTOR'S RESPONSIBILITY.
3. COORDINATE INSTALLATION OF ELECTRICAL AND IRRIGATION CONDUIT AND SLEEVES WITH RESPECTIVE CONTRACTORS.
4. CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION STAKING.
5. ALL DIMENSIONS ARE TO FACE OF CURB, EDGE OF WALK, EDGE OF PAVEMENT, EDGE OF FOUNDATION, EDGE OF WALLS OR CENTER OF POST.
6. CONTRACTOR RESPONSIBLE FOR ANY DAMAGE TO NEW OR EXISTING IMPROVEMENTS INCLUDING LANDSCAPE AREAS AS A RESULT OF CONSTRUCTION ACTIVITIES.

0 20 40 60 feet

SCALE: 1" = 20'

NORTH

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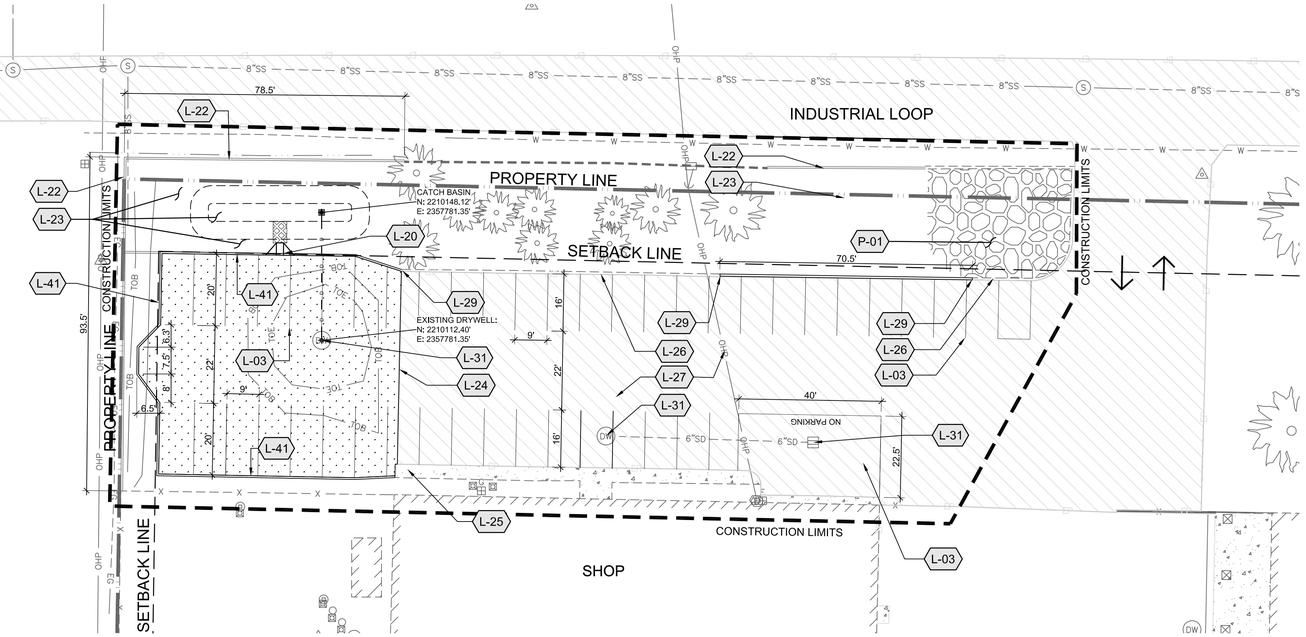
IDAHO DEPARTMENT OF LANDS DPW PROJECT #17-500

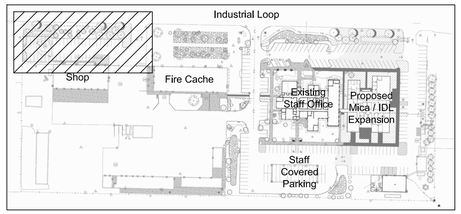
# DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE
# 3284 INDUSTRIAL LOOP, COEUR D'ALENE ID, 83815

FIRE CACHE - LAYOUT PLAN

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | KD |
| DRAWN BY | MP |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | |
| REVISION | RECORD SET |
| SHEET NO. | L1.11 |

S:\1658 ID Dept of Lands\Site\1658 Layout Plan.dwg plotted by: markp on Mon, August 20 2018 at 09:16 AM

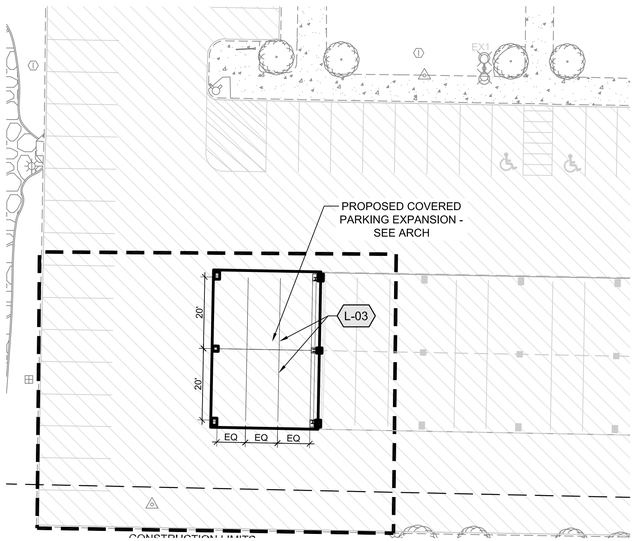


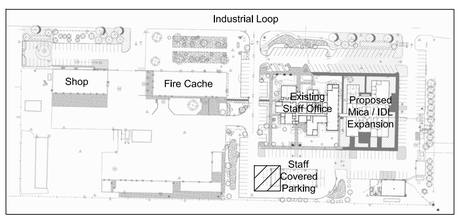




KeyMap

1 L1.12 Alternate Bid #2: NW Fire Cache/Shop Parking Improvements

SCALE: 1"=20'




KeyMap

2 L1.12 Alternate Bid #3: Covered Parking Expansion

SCALE: 1"=20'

# FIRE CACHE LAYOUT KEYED NOTES

| SYMBOL | DESCRIPTION | QTY | DETAIL |
|---|---|---|---|
| L-03 | INSTALL PARKING LOT STRIPING PER DETAIL, TYP. | | 2/L1.13 |
| L-20 | INSTALL CURB CUT INLET PER DETAIL, TYP | | 1/L1.14 |
| L-22 | INSTALL SALVAGED RAILROAD TIMBERS LANDSCAPE EDGE - SUPPLEMENT TIMBERS AS REQUIRED | | |
| L-23 | INSTALL TEMPORARY IRRIGATION AS REQUIRED FOR NEW TREE PLANTINGS IN THIS AREA (TYP.) SEE LANDSCAPE PLANS | | |
| L-24 | PATCH BACK ASPHALT AS REQUIRED | | 8/L1.14 |
| L-25 | SAVE AND PROTECT EXISTING CONCRETE FLATWORK | | |
| L-26 | SAVE AND PROTECT EXISTING CURBING | | |
| L-27 | SAVE AND PROTECT EXISTING ASPHALT | | |
| L-29 | TIE NEW CONCRETE CURB INTO EXISTING CURB | | |
| L-31 | SAVE AND PROTECT EXSITING DRY WELL / CATCH BASIN | | 2/L1.15 |
| L-41 | INSTALL VERTICAL CURB PER DETAIL | | 2/L1.14 |

Planting

| SYMBOL | DESCRIPTION | QTY | DETAIL |
|---|---|---|---|
| P-01 | PATCH BACK TURF / LANDSCAPE / LANDSCAPE MULCH AS REQUIRED | | |

Layout

| SYMBOL | DESCRIPTION | QTY | DETAIL |
|---|---|---|---|
| | 2 1/2" ASPHALT OVER 6" BASE COURSE SECTION, PER GEO TECHNICAL REPORT AND PER DETAIL | 4,185 sf | 6/L1.14 |
| | EXISTING ASPHALT TO REMAIN | | |

# LAYOUT LEGEND

- CONSTRUCTION LIMITS
- PROPERTY LINE (VERIFY)
- VERTICAL CURBING LOCATION
- N: 617.66' E: 2523.29' — COORDINATE POINT
- CONCRETE FLATWORK PER DETAIL
  - SCORE JOINT
  - EXPANSION JOINT
- CONCRETE WHEELSTOPS PER DETAIL
- SITE LIGHTING. SEE ELECTRICAL PLANS FOR MORE INFORMATION
- SIGN POST PER DETAIL
- S# — SIGN LOCATION. SEE DETAILS FOR SIGNAGE LEGEND.

# LAYOUT GENERAL NOTES

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6. CONTRACTOR RESPONSIBLE FOR ANY DAMAGE TO NEW OR EXISTING IMPROVEMENTS INCLUDING LANDSCAPE AREAS AS A RESULT OF CONSTRUCTION ACTIVITIES.

0 20 40 60 feet

SCALE: 1" = 20'

NORTH

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IDAHO DEPARTMENT OF LANDS DPW PROJECT #17-500

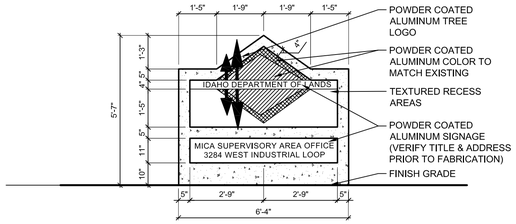
**DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE**

**3284 INDUSTRIAL LOOP, COEUR D'ALENE ID, 83815**

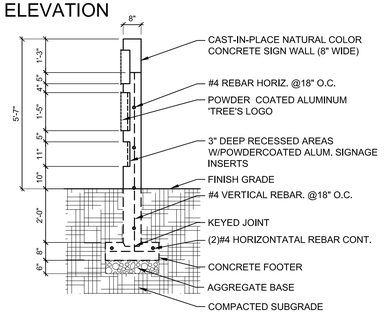
FIRE CACHE / COVERED PARKING - LAYOUT PLAN

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | KD |
| DRAWN BY | MP |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | |
| REVISION | RECORD SET |
| SHEET NO. | L1.12 |

S:\1658 ID Dept of Lands\Site\1658 Layout Plan.dwg plotted by: markp on Mon, August 20 2018 at 09:16 AM



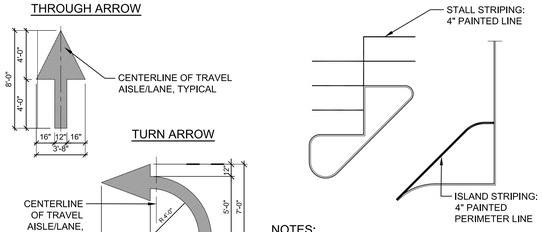

ELEVATION




SECTION

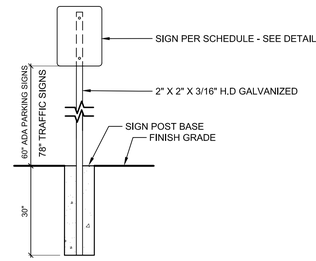
NOTES:
1. COORDINATE POWER & DATA WITH ELECTRICAL.
2. COLORS TO MATCH EXISTING SIGN ON SITE.
3. SIGNAGE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL BY ARCHITECT PRIOR TO PROCEEDING WITH CONSTRUCTION.

## 1 | IDL MICA AREA SIGN
3/8" = 1'-0"

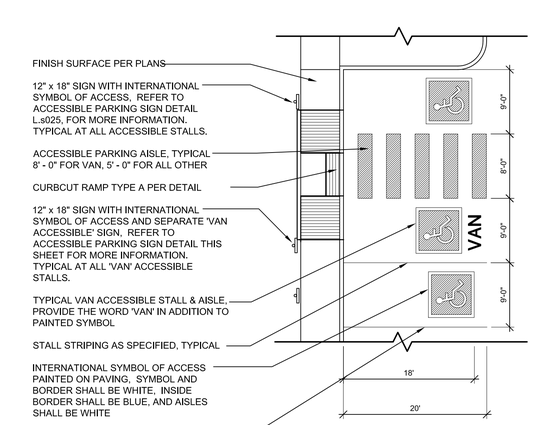



NOTES:
1. REFER TO LAYOUT PLAN FOR SPECIFIC STALL & ISLAND LOCATIONS AND DIMENSIONS.
2. DIMENSIONS ON THE PLANS SHALL SUPERCEDE THOSE OF THE DETAIL.
3. REFER TO SPECIFICATIONS FOR COLORS AND ADDITIONAL INFORMATION.

## 2 | PARKING LOT STRIPING
NTS

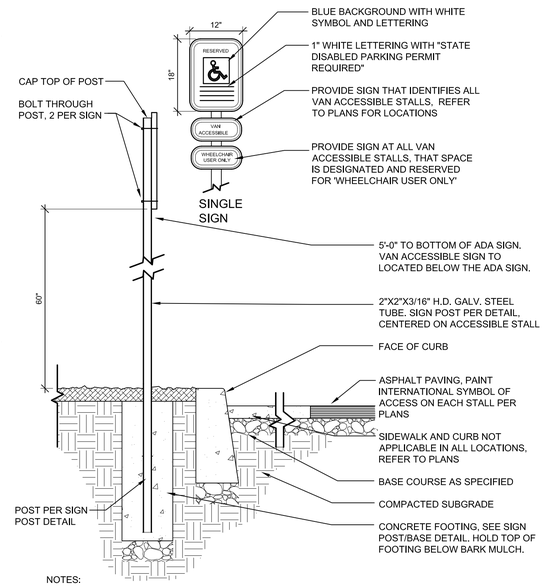



## 3 | STANDARD SIGN POST BASE
1/2" = 1'-0"




NOTES:
1. REFER TO LAYOUT PLAN FOR SPECIFIC STALL LOCATIONS AND DIMENSIONS.
2. DIMENSIONS ON THE PLANS SHALL SUPERSEDE THOSE OF THE DETAIL.
3. ALL ACCESSIBLE PARKING STALLS AND SIGNS SHALL CONFORM TO ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS FOR ACCESSIBLE PARKING.

## 4 | ADA STALL LAYOUT
1" = 10'

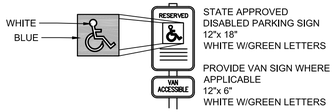



NOTES:
1. FOR A VAN ACCESSIBLE SIGN PROVIDE A 60" CLEARANCE FROM FINISH GRADE TO BOTTOM OF 'VAN ACCESSIBLE' SIGN.

## 5 | ADA SIGNAGE
NTS

## SIGNAGE LEGEND

**S1**



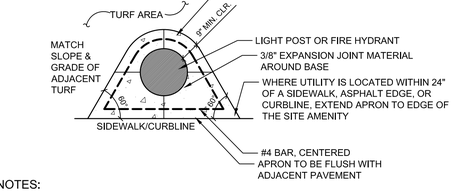

STATE APPROVED DISABLED PARKING SIGN
12"x 18"
WHITE W/GREEN LETTERS

PROVIDE VAN SIGN WHERE APPLICABLE
12"x 6"
WHITE W/GREEN LETTERS

**S2**

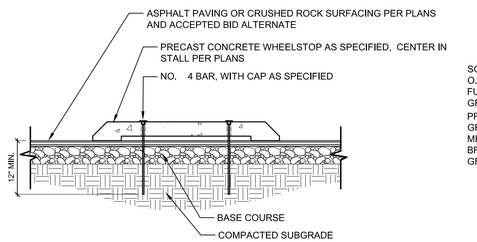
24"x 24"
18"x 12"

## 6 | SIGNAGE LEGEND
1" = 1"



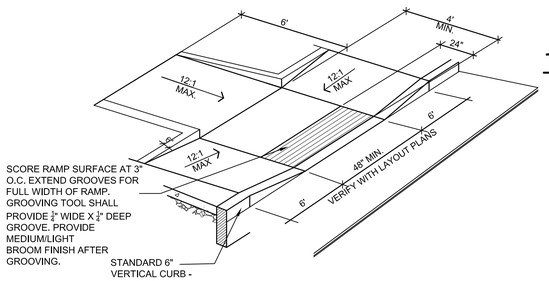

NOTES:
1. LOCATE THE CONCRETE APRON AROUND EACH LIGHT POST/FIRE HYDRANT LOCATED WITHIN A TURF AREA.
2. REFER TO STANDARD CONCRETE FLATWORK DETAIL FOR THICKNESS & BASE COURSE DEPTH.

## 7 | LIGHT / FIRE HYDRANT APRON
6" = 1'-0"



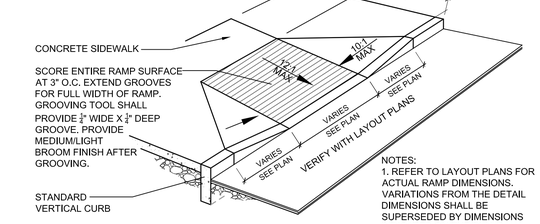

NOTES:
1. REFER TO PLAN FOR LOCATION(S).
2. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

## 8 | CONCRETE WHEEL STOP
3/4" = 1'-0"



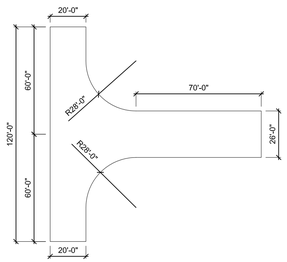

NOTE:
1. REFER TO LAYOUT PLANS FOR ACTUAL RAMP DIMENSIONS.

## 9 | CURB CUT RAMP 'A'
NTS




NOTES:
1. REFER TO LAYOUT PLANS FOR ACTUAL RAMP DIMENSIONS. VARIATIONS FROM THE DETAIL DIMENSIONS SHALL BE SUPERSEDED BY DIMENSIONS INDICATED ON THE PLANS.

## 10 | CURB CUT RAMP 'B'
NTS




## 11 | FIRE APPARATUS DEAD-END TURN AROUND
1" = 40'

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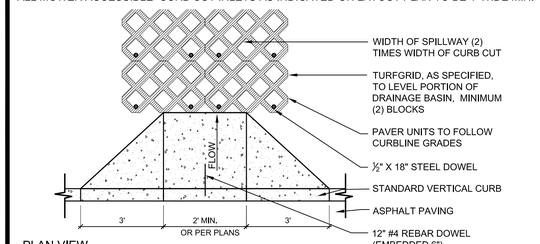
IDAHO DEPARTMENT OF LANDS DPW PROJECT #17-500

**DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE**
**3284 INDUSTRIAL LOOP, COEUR D'ALENE ID, 83815**

SITE DETAILS

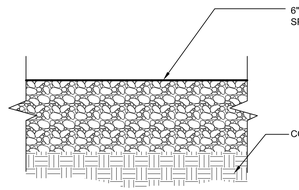
| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | KD |
| DRAWN BY | MP |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | |
| REVISION | RECORD SET |
| SHEET NO. | L1.13 |

ALL MOWER ACCESSIBLE CURB CUT INLETS AS INDICATED ON LAYOUT PLAN TO BE 4' WIDE MIN.



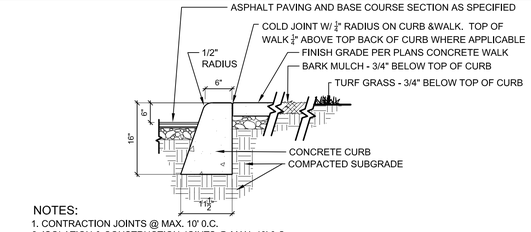

NOTE:
SOD / SOD PLUGS TO BE INSTALLED WITHIN PAVERS & EXTEND 18" MIN. FROM PAVER EDGES TO PREVENT EROSION.

## 1 | CURB CUT INLET
NTS



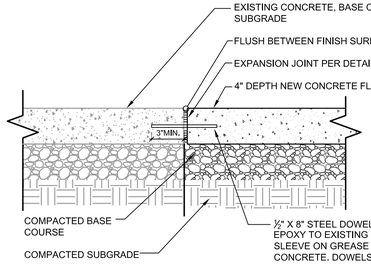

GRAVEL ROAD / FIRE LANE

## 7 | GRAVEL SURFACING
1" = 1"

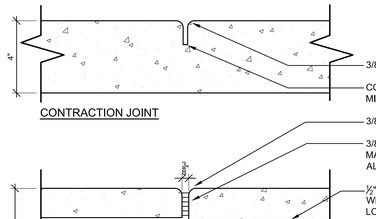



NOTES:
1. CONTRACTION JOINTS @ MAX. 10' O.C.
2. ISOLATION & CONSTRUCTION JOINTS @ MAX. 40' O.C.
3. PROVIDE EXPANSION JOINTS AT THE INTERSECTION OF STRAIGHT CURB & RADII.
4. ISOLATION AND CONSTRUCTION JOINTS SHALL BE PREFORMED JOINT FILLER OF ¾" THICKNESS.
5. CONTRACTION JOINTS SHALL BE MINIMUM ⅛" WIDE, 1½" DEEP, AND ROUNDED CORNERS.

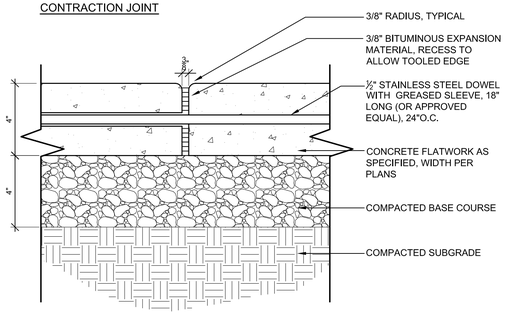
## 2 | STANDARD VERTICAL CURB
3/4" = 1'-0"




## 3 | NEW CONCRETE MEETS EXISTING CONCRETE
1 1/2" = 1'-0"



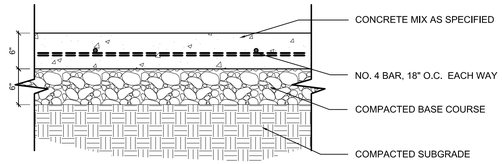

CONTRACTION JOINT




CONSTRUCTION OR ISOLATION JOINTS

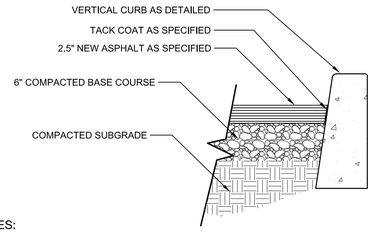
NOTE:
1. REFER TO SPECIFICATIONS FOR 28 DAY COMPRESSIVE STRENGTH REQUIREMENTS.
2. WHEREVER CONCRETE FLATWORK ABUTS BUILDINGS OR COLUMNS IT SHALL HAVE EXPANSION MATERIAL.
3. PROVIDE JOINTS AS SHOWN ON PLANS.

## 4 | CONCRETE FLATWORK/EXPANSION JOINT
3" = 1'-0"



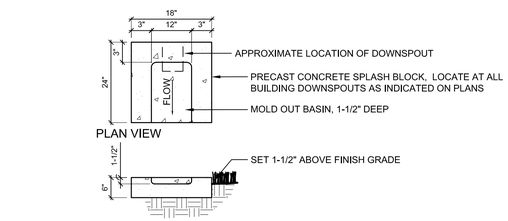

NOTES:
1. REFER TO PLANS FOR LOCATIONS.
2. REFER TO CONCRETE FLATWORK/EXPANSION JOINT DETAIL FOR ADDITIONAL INFORMATION.

## 5 | REINFORCED CONCRETE FLATWORK
1" = 1'-0"




NOTES:
1. REFER TO PLAN FOR LOCATIONS.
2. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

## 6 | ASPHALT PAVING
1" = 1'-0"




NOTES:
1. USE OF AN ACCEPTABLE ALTERNATIVE BASED UPON APPROVAL BY THE LANDSCAPE ARCHITECT.

## 8 | EXISTING ASPHALT / NEW ASPHALT EDGE
1 1/2" = 1'-0"

## 9 | SPLASH BLOCK
6" = 1'-0"

EROSION / SEDIMENTATION CONTROL NOTES PAGE 1

1. Approval of this Erosion/Sedimentation Control (ESC) plan does not constitute an approval of permanent road or drainage design (e.g., size and location of roads, pipes, restrictors, channels, retention facilities, utilities, etc.).

2. The implementation of this ESC plan and the construction, maintenance, replacement, and upgrading of these ESC facilities is the responsibility of the Permittee / Contractor until all construction is approved.

3. The boundaries of the clearing limits shown on this plan shall be clearly flagged in the field by a clearing control fence prior to construction. During the construction period, no disturbance or removal of any ground cover beyond the flagged clearing limits shall be permitted. The flagging shall be maintained by the Permittee / Contractor for the duration of construction. All ground cover is to remain outside of clearing area(s).

4. The ESC facilities shown on this plan must be constructed in conjunction with all clearing and grading activities in such a manner as to ensure that sediment-laden water does not enter the drainage system or violate applicable water standards, and must be installed and in operation prior to any grading or land clearing. Wherever possible, maintain natural vegetation for silt control.

5. The ESC facilities shown on this plan are the minimum requirements for anticipated site conditions. During the construction period, these ESC facilities shall be upgraded (e.g., additional sumps, relocation of ditches and silt fences, etc.) as needed for unexpected storm events. Additionally, more ESC facilities may be required to ensure complete siltation control. Therefore, during the course of construction it shall be the obligation and responsibility of the contractor to address any new conditions that may be created by his activities and to provide additional facilities over and above the minimum requirements as may be needed.

6. The ESC facilities shall be inspected by the Permittee / Contractor daily during non-rainfall periods, every hour (daylight) during a rainfall event, and at the end of every rainfall, and maintained as necessary to ensure their continued functioning. In addition, temporary siltation ponds and all temporary siltation controls shall be maintained in a satisfactory condition until such time as clearing and/or construction is completed, permanent drainage facilities are operational, and the potential for erosion has passed.

7. The ESC facilities on inactive sites shall be inspected and maintained a minimum of once a month or within 48 hours following a storm event.

8. At no time shall more than 1 foot of sediment be allowed to accumulate within a catch basin. All catch basins and conveyance lines shall be cleaned prior to paving. The cleaning operation shall not flush sediment-laden water into the downstream system.

9. Stabilized construction entrances and wash pads shall be installed at the beginning of construction and maintained for the duration of the project. Additional measures may be required to ensure that all paved areas are kept clean for the duration of the project.

10. Any permanent retention/detention facility used as a temporary settling basin shall be modified within the necessary erosion control measures and shall provide adequate storage capacity. If the permanent facility is to function ultimately as an infiltration or dispersion system, the facility shall not be used as a temporary settling basin. No underground detention tank, detention vault, or system which backs under or into a pond shall be used as a temporary settling basin.

| REVISION | APPROVED | DATE | CITY OF COEUR d'ALENE STANDARD DRAWING | APPROVED BY: |
|---|---|---|---|---|
| | | | EROSION/SEDIMENTATION CONTROL NOTES PAGE 1 | CITY ENGINEER, PE 7432 — DATE: 4/1/08 |
| | | | | DWG NO. M-16 |

## 10 | CITY OF CDA EROSION CONTROL NOTES PAGE 1

EROSION / SEDIMENTATION CONTROL NOTES PAGE 2

11. Where straw mulch is required for temporary erosion control, it shall be applied at a minimum thickness of 2".

12. All erosion / sedimentation control ponds with a dead storage depth exceeding 12" must have a perimeter fence with a minimum height of 3 feet.

13. All work and materials shall be in accordance with the City of Coeur d'Alene Standards and Specifications.

14. The ESC facilities shall be constructed in accordance with the details on the approved plans. Locations may be moved to suit field conditions, subject to approval by the Engineer and the City of Coeur d'Alene Inspector.

15. A copy of the approved erosion control plans must be on the job site whenever construction is in progress.

16. Any catch basins or drywells collecting runoff from the site, whether they are on or off the site, shall have their grates covered with filter fabric during construction.

17. The washed gravel backfill adjacent to the filter fabric fence shall be replaced and the filter fabric cleaned if it is nonfunctional by excessive silt accumulation as determined by the City of Coeur d'Alene. Also all interceptor swales shall be cleaned if silt accumulation exceeds one-quarter depth.

18. Rock for erosion protection of channels and ditches, where required, must be of sound quarry rock, placed to a depth of 1 foot and must meet the following specifications: 4"-8" rock / 40%-70% passing; 2"-4" rock / 30%-40% passing; and 1"-2" rock / 10%-20% passing.

19. If any part(s) of the clearing limit boundary or temporary erosion / sedimentation control plan is/are damaged, it shall be repaired immediately.

20. All properties adjacent to the project site shall be protected from sediment deposition and runoff.

21. Do not flush concrete by-products or trucks near or into the storm drainage system.

| REVISION | APPROVED | DATE | CITY OF COEUR d'ALENE STANDARD DRAWING | APPROVED BY: |
|---|---|---|---|---|
| | | | EROSION/SEDIMENTATION CONTROL NOTES PAGE 2 | CITY ENGINEER, PE 7432 — DATE: |
| | | | | DWG NO. M-17 |

## 11 | CITY OF CDA EROSION CONTROL NOTES PAGE 2

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7825 MEADOWLARK WAY
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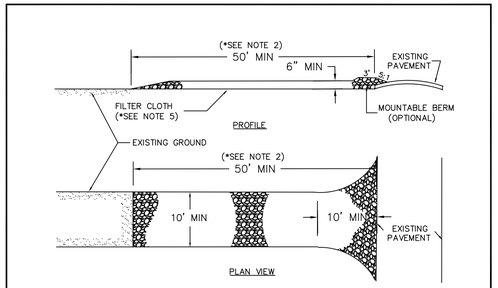
208.672.8787

IDAHO DEPARTMENT OF LANDS DPW PROJECT #17-500

**DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE**
**3284 INDUSTRIAL LOOP, COEUR D'ALENE ID, 83815**

SITE DETAILS

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | KD |
| DRAWN BY | MP |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | |
| REVISION | RECORD SET |
| SHEET NO. | L1.14 |

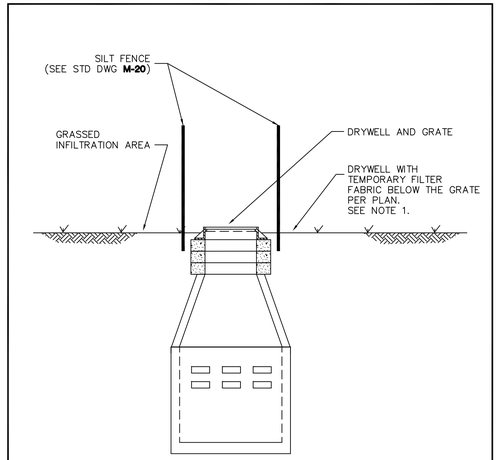



CONSTRUCTION SPECIFICATIONS

1. STONE SIZE – USE 2" STONE OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH – AS REQUIRED, BUT NOT LESS THAN 50 FEET (EXCEPT 20 FOOT MINIMUM ON A SINGLE FAMILY RESIDENCE).
3. THICKNESS – NOT LESS THAN 6 INCHES.
4. WIDTH – 10 FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS AND EGRESS OCCURS.
5. FILTER CLOTH – WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. FILTER CLOTH WILL NOT BE REQUIRED ON A SINGLE FAMILY RESIDENCE LOT.
6. SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE REQUIRED.
7. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT–OF–WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT–OF–WAY MUST BE REMOVED IMMEDIATELY.
8. WASHING – WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT–OF–WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE IN AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

| REVISION | APPROVED | DATE | CITY OF COEUR d'ALENE STANDARD DRAWING | APPROVED BY: |
|---|---|---|---|---|
| | | | STABILIZED CONSTRUCTION ENTRANCE | CITY ENGINEER, PE 7432 — 4/5/11 DATE: |
| | | | | DWG NO. M–18 |

## 1 | STABILIZED CONSTRUCTION ENTRANCE



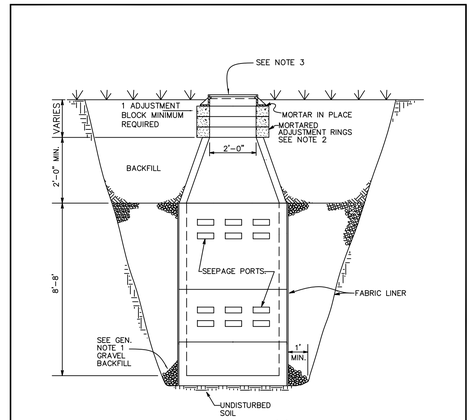

N.T.S.

NOTE

1. PLACE FILTER FABRIC BELOW THE GRATE WITH 0.5' MINIMUM TUCKED AROUND GRATE SIDES TO ENSURE THAT THE FILTER FABRIC IS SECURE.

| REVISION | APPROVED | DATE | CITY OF COEUR d'ALENE STANDARD DRAWING | APPROVED BY: |
|---|---|---|---|---|
| | | | DRYWELL INLET PROTECTION | CITY ENGINEER, PE 7432 — 4/1/08 DATE: |
| | | | | DWG NO. M–19 |

## 2 | DRYWELL INLET PROTECTION




DRYWELL – TYPE 'B'

GENERAL NOTES

1. SPECIAL BACKFILL MATERIAL FOR DRYWELLS SHALL CONSIST OF WASHED GRAVEL GRADED FROM 1" TO 3" WITH A MAXIMUM OF 5% PASSING THE U.S. No. 200 SCREEN, AS MEASURED BY WEIGHT.

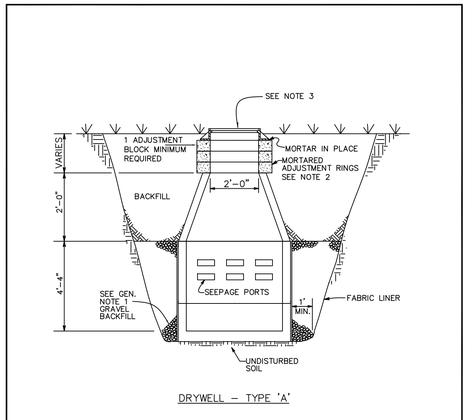
   GRAVEL BACKFILL QUANTITY FOR DRYWELLS:
   TYPE "A" – 30 CUBIC YARDS MINIMUM
   TYPE "B" – 40 CUBIC YARDS MINIMUM
   OR AS SPECIFIED ON PLANS.

2. ADJUSTMENT BLOCKS SHALL BE CEMENT CONCRETE. ONE BLOCK MINIMUM REQUIRED.
3. SEE STANDARD DRAWING SS–2 FOR FRAME AND COVER DETAIL.

| REVISION | APPROVED | DATE | CITY OF COEUR d'ALENE STANDARD DRAWING | APPROVED BY: |
|---|---|---|---|---|
| | | | TYPE B DRYWELL | CITY ENGINEER, PE 7432 — 4/1/08 DATE: |
| | | | | DWG NO. SD–6B |

## 3 | CITY OF COEUR D' ALENE – TYPE B DRYWELL

NTS




DRYWELL – TYPE 'A'

GENERAL NOTES

1. SPECIAL BACKFILL MATERIAL FOR DRYWELLS SHALL CONSIST OF WASHED GRAVEL GRADED FROM 1" TO 3" WITH A MAXIMUM OF 5% PASSING THE U.S. No. 200 SCREEN, AS MEASURED BY WEIGHT.

   GRAVEL BACKFILL QUANTITY FOR DRYWELLS:
   TYPE "A" – 30 CUBIC YARDS MINIMUM
   TYPE "B" – 40 CUBIC YARDS MINIMUM
   OR AS SPECIFIED ON PLANS.

2. ADJUSTMENT BLOCKS SHALL BE CEMENT CONCRETE. ONE BLOCK MINIMUM REQUIRED.
3. SEE STANDARD DRAWING SS–2 FOR FRAME AND COVER DETAIL.

| REVISION | APPROVED | DATE | CITY OF COEUR d'ALENE STANDARD DRAWING | APPROVED BY: |
|---|---|---|---|---|
| | | | TYPE A DRYWELL | CITY ENGINEER, PE 7432 — 4/10/18 DATE: |
| | | | | DWG NO. SD–6A |

## 4 | CITY OF COEUR D' ALENE – TYPE A DRYWELL

NTS

### INFILTRATION SWALE CALCULATIONS
### City of Coeur d'Alene

**PROJECT NAME:** Idaho Department of Lands
**LOCATION:** Coeur d' Alene, Idaho
**DATE:** 3/28/2017

Assumed infiltration rate: 2.0 in/hr — rate: 2 in/hr - Geotechnical report anticipates 0.3 in/hr

| ZONE | IMPERVIOUS AREA (sf) | FACTOR | REQ'D SWALE AREA (sf) | PROPOSED SWALE LENGTH | PROPOSED SWALE WIDTH | PROPOSED SWALE AREA (sf) |
|---|---|---|---|---|---|---|
| Mica Addition 1 | 10127 | 0.0446 | 451.7 | 100 | 5 | 500 |
| Fire Cache Parking 2 | 4159 | 0.0446 | 185.5 | 40 | 5 | 200 |
| | | | 0.0 | | | |
| | | | 0 | | | |
| | | | 0 | | | |
| | | | 0 | | | |

Directions:
Infiltration swales are designed to infiltrate all of the required treatment flow from the impervious area. The treatment flow is calculated from a rate of 0.1 in/hr. The multiplication factors in the table below are based on the rate. Follow the steps below to complete the table for your project.

Step 1. Assume an infiltration rate for the swale based on your experience with the area and the underlying soils. A percolation test will be required prior to project approval in order to confirm that assumption. Write the assumed rate in the space above.

Step 2. Calculate the impervious area that will drain to the swale.
Step 3. Select the appropriate multiplication factor from the table below.
Step 4. Multiply the area by the factor to calculate the required swale area.
Step 5. Calculate the proposed swale area by using the average ferth and width.
Step 6. Confirm that the proposed area meets or exceeds the required area.

**Table of multiplication factors**

| Infiltration rate (in/hr) | Factor | Infiltration rate ( | Factor |
|---|---|---|---|
| 0.5 | 0.1785 | 2.0 | 0.0446 |
| 1.0 | 0.0893 | 2.5 | 0.0357 |
| 1.5 | 0.0595 | 3.0 | 0.0298 |

### INFILTRATION SWALE CALCULATIONS
### City of Coeur d'Alene

**DRYWELL CALCULATIONS**

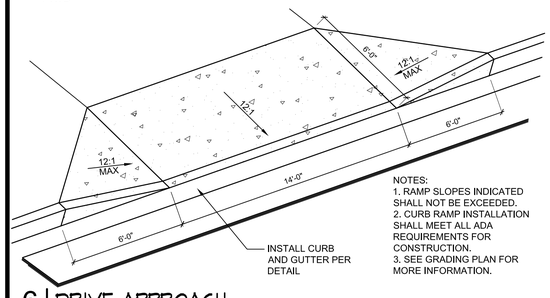
| ZONE | A TOTAL AREA (sf) | B IMPERVIOUS AREA (sf) | C PERVIOUS AREA (SF) | D WEIGHTED C ((.9xB)+(.4xC))/A | Q (2.1xAxD)/43560 | DRYWELLS REQ'S* | |
|---|---|---|---|---|---|---|---|
| Mica Addition South East (1A) | 39617 | 34878 | 4739 | 0.84 | 1.63 | 1 Double Barrel? | Existing |
| Mica Addition North (1B) | 30997 | 18772 | 12225 | 0.70 | 1.05 | 1 Double Barrel | Proposed |
| Fire Cache Parking Lot (2) | 7037 | 4159 | 2878 | 0.70 | 0.24 | 1 Single Barrel | Existing |
| 4 | | | 0 | #DIV/0! | #DIV/0! | | |
| 5 | | | 0 | 0.9 | 0.00 | | |
| TOTAL IMPERVIOUS | | 57809 | * 3000 = | 19.27 | (Round to nearest whole number) | | |

* Double barrel drywell = 1.0 cfs max, Single barrel drywell = 0.3 cfs max

**IMPORTANT NOTE FOR DRYWELL HEIGHT AND PLACEMENT:**
Drywells must be placed as far from the inlet as possible in order to utilize all of the swale capacity. Drywell rims may be placed flush with the swale bottom.

## 5 | SWALE CALCULATION SHEETS

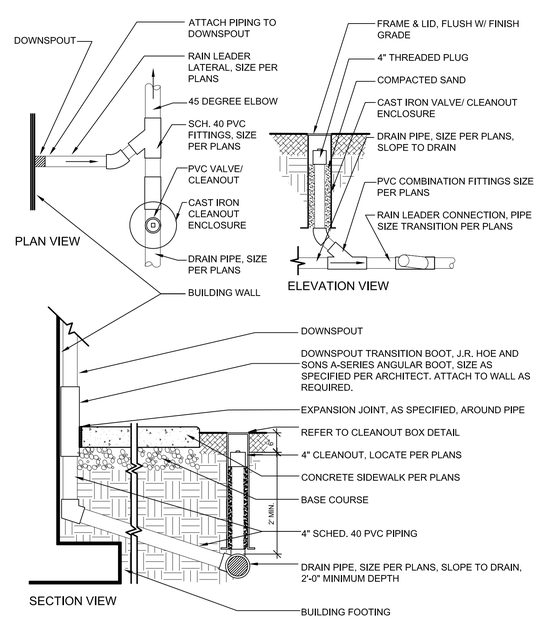
NTS




NOTES:
1. RAMP SLOPES INDICATED SHALL NOT BE EXCEEDED.
2. CURB RAMP INSTALLATION SHALL MEET ALL ADA REQUIREMENTS FOR CONSTRUCTION.
3. SEE GRADING PLAN FOR MORE INFORMATION.

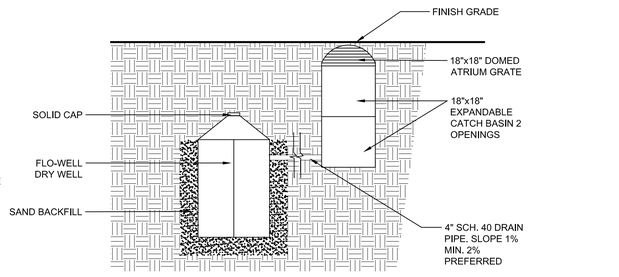
## 6 | DRIVE APPROACH

1/4" = 1'-0"




## 7 | DOWNSPOUT CONNECTION

NTS




## 8 | 18" DOMED DRAIN/CATCH BASIN & NDS FLO-WELL DRYWELL

6" = 1'-0"

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- Mechanical Engineer
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  6814 SOUTH JACKSON RIDGE LANE
  GREENACRES, WA, 99016
  509.922.0383
- Electrical Engineer
  TRINDERA ENGINEERING
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- Surveyor
  J-U-B ENGINEERS, INC.
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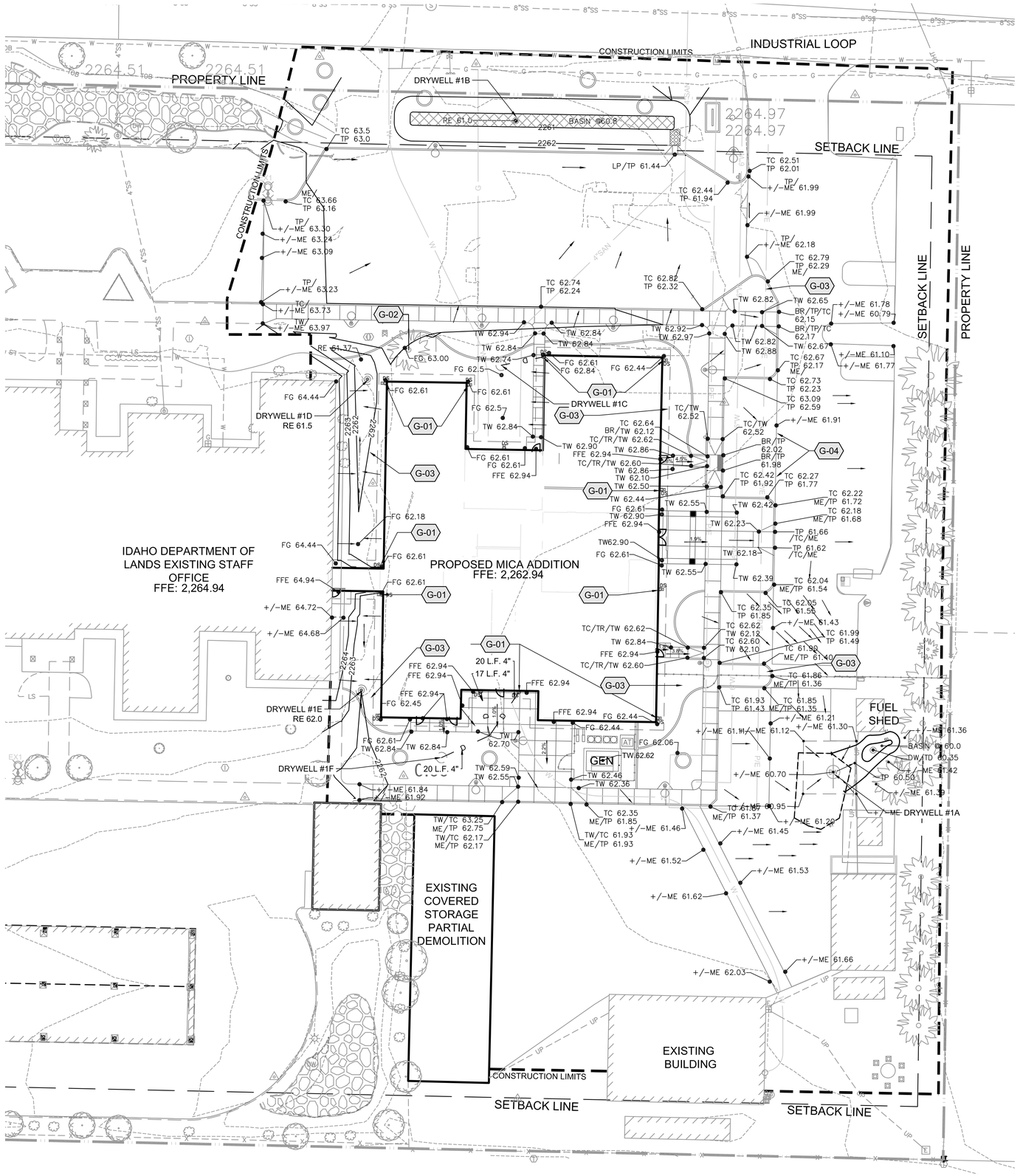
  208.672.8787

IDAHO DEPARTMENT OF LANDS DPW PROJECT #17-500

**DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE**
**3284 INDUSTRIAL LOOP, COEUR D'ALENE ID, 83815**

SITE DETAILS

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | KD |
| DRAWN BY | MP |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | |
| REVISION | RECORD SET |
| SHEET NO. | L1.15 |




## GRADING LEGEND

- CONSTRUCTION LIMITS
- PROPERTY LINE RIGHT-OF-WAY
- 2275 — PROPOSED CONTOUR
- 2275 — EXISTING CONTOUR
- DRYWELL PER DETAIL, REFER TO SHEET L1.23 FOR TYPE
- FG 86.58 — PROPOSED SPOT ELEVATION
- DIRECTION OF SLOPE & PERCENT IF SHOWN
- GB — GRADE BREAK
- STANDARD VERTICAL CURB
- BOTTOM OF DRAINAGE BASIN

## GRADING GENERAL NOTES

1. CONTOUR INTERVAL EQUALS ONE FOOT (1'-0").
2. CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION STAKING. STAKING SHALL BE PERFORMED BY A REGISTERED LAND SURVEYOR WITHIN THE STATE OF THE PROJECT.
3. CONTRACTOR TO VERIFY ALL EXISTING ELEVATIONS NOTED ON THIS PLAN.
4. COORDINATE ALL EARTHWORK OPERATIONS WITH CIVIL, MECHANICAL, AND ELECTRICAL ENGINEERING SHEETS.
5. GRADES SHOWN ARE FINISH GRADES.
6. ALL FINISH GRADES SHALL BE SMOOTH AND UNIFORM.
7. ALL CURBS TO BE SIX INCHES (6") IN HEIGHT UNLESS OTHERWISE NOTED.
8. PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDING.
9. PROVIDE POSITIVE DRAINAGE TO DRAINAGE STRUCTURES.
10. ALL SLOPES SHALL BE GRADED TO A MAXIMUM OF 4:1 UNLESS OTHERWISE NOTED.
11. MINIMUM OF 1.5% & MAXIMUM 2% CROSS SLOPE ON CONCRETE FLATWORK UNLESS OTHERWISE NOTED.
12. ALL PROPOSED SPOT ELEVATIONS TO ADD 2200'.
13. CONCRETE FLATWORK TO MATCH SLAB ELEVATION AT ALL DOORS.
14. CONTRACTOR TO LOCATE AND VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO BEGINNING EARTHWORK OPERATIONS.

## GRADING KEYED NOTES

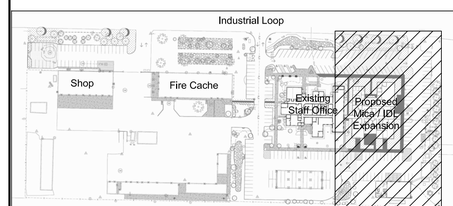
- G-01 — DOWNSPOUT CONNECTION PER DETAIL. SEE ARCH FOR DOWNSPOUTS & MECHANICAL FOR CONTINUATION OF BUILDING RAINWATER LEADERS
- G-02 — SAVE AND PROTECT EXISTING TREES. AVOID DAMAGING ROOTS/LIMBS AND AVOID COMPATING SOIL. IRRIGATE TREES AS REQUIRED. REFER TO TREE PROTECTION DETAIL.
- G-03 — PRIOR TO PLACEMENT OF PLANTING SOIL, ALL PLANTING BEDS TO BE SCARIFIED AS SPECIFIED.
- G-04 — MAXIMUM SLOPE WITHIN ADA STALLS AND AISLES SHALL NOT EXCEED 2% IN ANY DIRECTION

## ABBREVIATION LEGEND

| | | | |
|---|---|---|---|
| BB | BOTTOM OF BASIN | MH | MANHOLE |
| BD | BOTTOM OF DRAIN | RWL | RAINWATER LEADER |
| BS | BOTTOM OF STEP | SB | SPLASH BLOCK |
| BG | BOTTOM OF GUTTER | SE | SOIL ELEVATION |
| CO | CLEANOUT | SG | SUBGRADE ELEVATION |
| DS | DOWNSPOUT | TD | TOP OF DRAIN |
| DW | DRYWELL | TBC | TOP OF BASE COURSE |
| FL | FLOW LINE - DITCH/PAVEMENT | TC | TOP FACE OF CURB |
| FFE | FINISHED FLOOR ELEVATION | TG | TOP OF GRATE |
| FG | FINISH GRADE | TP | TOP OF PAVEMENT |
| GB | GRADE BREAK | TR | TOP OF RAMP |
| HP | HIGH POINT | TS | TOP OF STEP |
| IE | INVERT ELEVATION | TRW | TOP OF RETAINING WALL |
| IEO | INVERT ELEVATION OUT | TW | TOP OF WALK |
| ME | MATCH EXISTING | TOW | TOP OF WALL |
| IEI | INVERT ELEVATION IN | TOM | TOP OF MAT |
| LP | LOW POINT | UC | UNCHANGED |

## DRAINAGE STRUCTURE SCHEDULE

| ITEM | RIM ELEVATION | TYPE | GRATE |
|---|---|---|---|
| | | | |
| DW 1A | 2260.71 | EXISTING | SLOTTED |
| DW 1B | 2261.0 | TYPE B | SLOTTED |
| DW 1C | N/A BURIED | NDS FLO-WELL | SOLID |
| DW 1D | 2261.50 | NDS FLO-WELL | DOMED |
| DW 1E | 2262.0 | NDS FLO-WELL | DOMED |
| DW 1F | N/A BURIED | NDS FLO-WELL | SOLID |




KeyMap

0 20 40 60 feet

SCALE: 1" = 20'

NORTH

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- Mechanical Engineer
  KARTCHNER ENGINEERING
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  509.922.0383
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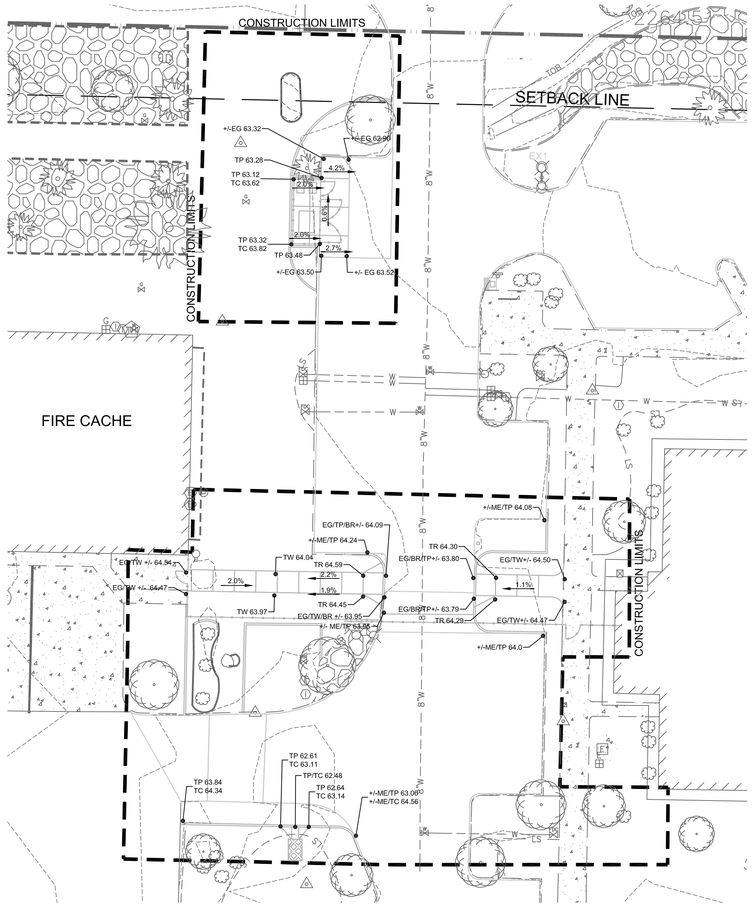
IDAHO DEPARTMENT OF LANDS DPW PROJECT #17-500

# DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE
## 3284 INDUSTRIAL LOOP, COEUR D'ALENE ID, 83815

BASE BID: MICA SITE IMPROVEMENTS - GRADING PLAN

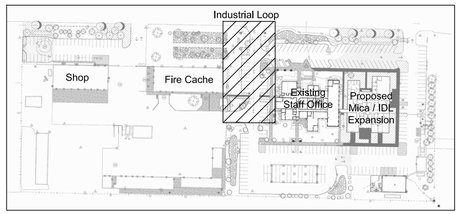
| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | KD |
| DRAWN BY | MP |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | |
| REVISION | RECORD SET |
| SHEET NO. | L1.20 |

Cross-ref: Dept of Lands\Site\1658 Grading Plan.dwg plotted by: mattp on Mon, August 20 2018 at 08:22 AM
S:\1658 ID Dept of Lands\Site\1658 Grading Plan.dwg plotted by: mattp on Mon, August 20 2018 at 08:22 AM




1 L1.21 Alternate Bid #1: Access Control & Dumpster Relocation

SCALE: 1"=20'




KeyMap

## GRADING LEGEND

- CONSTRUCTION LIMITS
- PROPERTY LINE RIGHT-OF-WAY
- 2275 — PROPOSED CONTOUR
- 2275 — EXISTING CONTOUR
- DRYWELL PER DETAIL, REFER TO SHEET L1.23 FOR TYPE
- FG 86.58 — PROPOSED SPOT ELEVATION
- DIRECTION OF SLOPE & PERCENT IF SHOWN
- GB — GRADE BREAK
- STANDARD VERTICAL CURB
- BOTTOM OF DRAINAGE BASIN

## GRADING GENERAL NOTES

1. CONTOUR INTERVAL EQUALS ONE FOOT (1'-0").
2. CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION STAKING. STAKING SHALL BE PERFORMED BY A REGISTERED LAND SURVEYOR WITHIN THE STATE OF THE PROJECT.
3. CONTRACTOR TO VERIFY ALL EXISTING ELEVATIONS NOTED ON THIS PLAN.
4. COORDINATE ALL EARTHWORK OPERATIONS WITH CIVIL, MECHANICAL, AND ELECTRICAL ENGINEERING SHEETS.
5. GRADES SHOWN ARE FINISH GRADES.
6. ALL FINISH GRADES SHALL BE SMOOTH AND UNIFORM.
7. ALL CURBS TO BE SIX INCHES (6") IN HEIGHT UNLESS OTHERWISE NOTED.
8. PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDING.
9. PROVIDE POSITIVE DRAINAGE TO DRAINAGE STRUCTURES.
10. ALL SLOPES SHALL BE GRADED TO A MAXIMUM OF 4:1 UNLESS OTHERWISE NOTED.
11. MINIMUM OF 1.5% & MAXIMUM 2% CROSS SLOPE ON CONCRETE FLATWORK UNLESS OTHERWISE NOTED.
12. PROVIDE POSITIVE DRAINAGE (MINIMUM ONE PERCENT) FROM ALL RAINWATER LEADERS TO DRYWELLS AND ENSURE 24" (TWENTY FOUR INCHES) OF COVER OVER ALL RAINWATER LEADERS.
13. ALL PROPOSED SPOT ELEVATIONS TO ADD 2200'.
14. CONCRETE FLATWORK TO MATCH SLAB ELEVATION AT ALL DOORS EXCEPT STORAGE BUILDING DOORS TO BE 1/4" BELOW SLAB ELEVATION.
15. ADJUST FIELD GRADES NORTH OF BUILDING AS REQUIRED TO ACCOMMODATE ADDITIONAL FILL/TOPSOIL MATERIAL.
16. CONTRACTOR TO LOCATE AND VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO BEGINNING EARTHWORK OPERATIONS.

## ABBREVIATION LEGEND

| | | | |
|---|---|---|---|
| BB | BOTTOM OF BASIN | MH | MANHOLE |
| BD | BOTTOM OF DRAIN | RWL | RAINWATER LEADER |
| BS | BOTTOM OF STEP | SB | SPLASH BLOCK |
| BG | BOTTOM OF GUTTER | SE | SOIL ELEVATION |
| CO | CLEANOUT | SG | SUBGRADE ELEVATION |
| DS | DOWNSPOUT | TD | TOP OF DRAIN |
| DW | DRYWELL | TBC | TOP OF BASE COURSE |
| FL | FLOW LINE - DITCH/PAVEMENT | TC | TOP FACE OF CURB |
| FFE | FINISHED FLOOR ELEVATION | TG | TOP OF GRATE |
| FG | FINISH GRADE | TP | TOP OF PAVEMENT |
| GB | GRADE BREAK | TR | TOP OF RAMP |
| HP | HIGH POINT | TS | TOP OF STEP |
| IE | INVERT ELEVATION | TRW | TOP OF RETAINING WALL |
| IEO | INVERT ELEVATION OUT | TW | TOP OF WALK |
| ME | MATCH EXISTING | TOW | TOP OF WALL |
| IEI | INVERT ELEVATION IN | TOM | TOP OF MAT |
| LP | LOW POINT | UC | UNCHANGED |

0 20 40 60 feet

SCALE: 1" = 20'

NORTH

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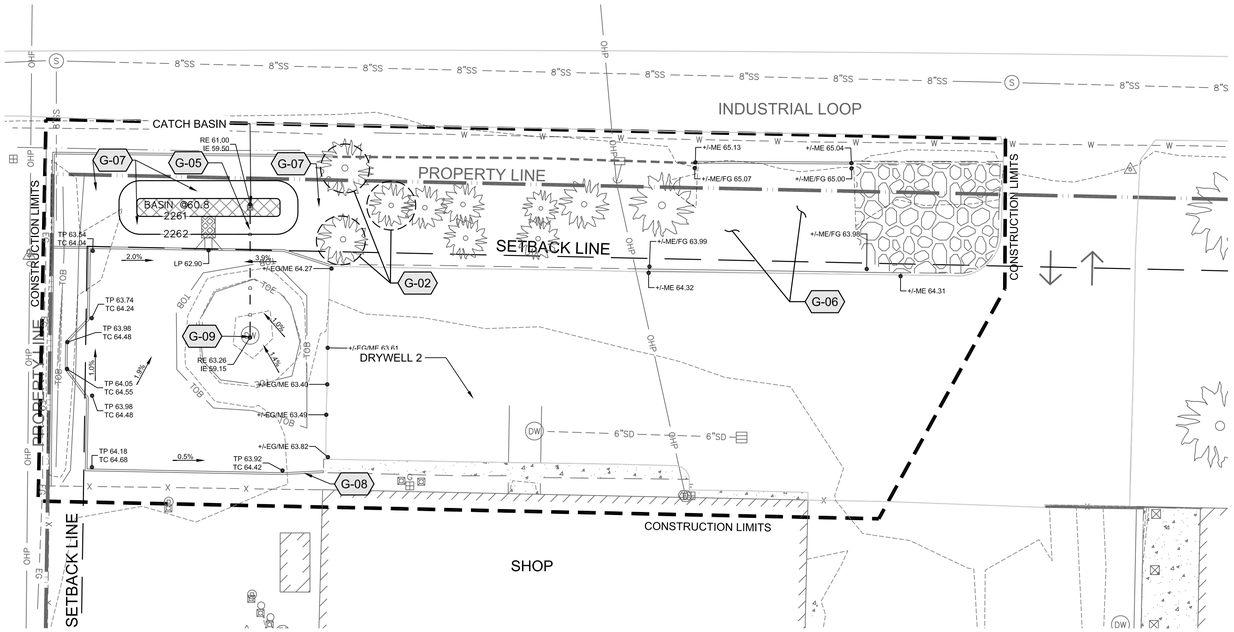
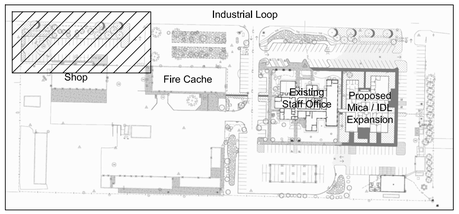
IDAHO DEPARTMENT OF LANDS DPW PROJECT #17-500

**DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE**
**3284 INDUSTRIAL LOOP, COEUR D'ALENE ID, 83815**

ACCESS CONTROL - GRADING PLAN

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | KD |
| DRAWN BY | MP |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | |
| REVISION | RECORD SET |
| SHEET NO. | L1.21 |

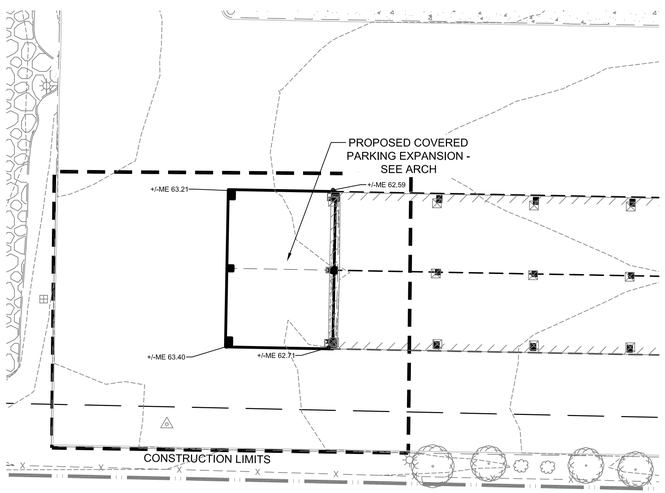


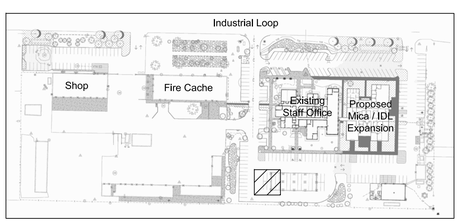




KeyMap

## 1 L1.22 Alternate Bid #2: NW Fire Cache/Shop Parking Improvements

SCALE: 1"=20'




KeyMap

## 2 L1.22 Alternate Bid #3: Covered Parking Expansion

SCALE: 1"=20'

# GRADING LEGEND

- CONSTRUCTION LIMITS
- PROPERTY LINE RIGHT-OF-WAY
- 2275 — PROPOSED CONTOUR
- --2275-- EXISTING CONTOUR
- DRYWELL PER DETAIL, REFER TO SHEET L1.23 FOR TYPE
- FG 86.58 — PROPOSED SPOT ELEVATION
- DIRECTION OF SLOPE & PERCENT IF SHOWN
- GB — GRADE BREAK
- STANDARD VERTICAL CURB
- BOTTOM OF DRAINAGE BASIN

# GRADING GENERAL NOTES

1. CONTOUR INTERVAL EQUALS ONE FOOT (1'-0").
2. CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION STAKING. STAKING SHALL BE PERFORMED BY A REGISTERED LAND SURVEYOR WITHIN THE STATE OF THE PROJECT.
3. CONTRACTOR TO VERIFY ALL EXISTING ELEVATIONS NOTED ON THIS PLAN.
4. COORDINATE ALL EARTHWORK OPERATIONS WITH CIVIL, MECHANICAL, AND ELECTRICAL ENGINEERING SHEETS.
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9. PROVIDE POSITIVE DRAINAGE TO DRAINAGE STRUCTURES.
10. ALL SLOPES SHALL BE GRADED TO A MAXIMUM OF 4:1 UNLESS OTHERWISE NOTED.
11. MINIMUM OF 1.5% & MAXIMUM 2% CROSS SLOPE ON CONCRETE FLATWORK UNLESS OTHERWISE NOTED.
12. PROVIDE POSITIVE DRAINAGE (MINIMUM ONE PERCENT) FROM ALL RAINWATER LEADERS TO DRYWELLS AND ENSURE 24" (TWENTY FOUR INCHES) OF COVER OVER ALL RAINWATER LEADERS.
13. ALL PROPOSED SPOT ELEVATIONS TO ADD 2200'.
14. CONCRETE FLATWORK TO MATCH SLAB ELEVATION AT ALL DOORS EXCEPT STORAGE BUILDING DOORS TO BE 1/4" BELOW SLAB ELEVATION.
15. ADJUST FIELD GRADES NORTH OF BUILDING AS REQUIRED TO ACCOMMODATE ADDITIONAL FILL/TOPSOIL MATERIAL.
16. CONTRACTOR TO LOCATE AND VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO BEGINNING EARTHWORK OPERATIONS.

# GRADING KEYED NOTES

| SYMBOL | DESCRIPTION |
|---|---|
| G-02 | SAVE AND PROTECT EXISTING TREES. AVOID DAMAGING ROOTS/LIMBS AND AVOID COMPATING SOIL. IRRIGATE TREES AS REQUIRED. REFER TO TREE PROTECTION DETAIL. |
| G-05 | INSTALL 40 L.F. OF 8" DRAIN PIPE TO DRYWELL |
| G-06 | PRIOR TO PLACEMENT OF PLANTING SOIL, SCARIFY TO DEPTH OF 18" AND INSTALL PLANTING SOIL WITHIN EXTENTS OF FORMER DRIVE APPROACH. |
| G-07 | PROVIDE PLANTING SOIL ONLY WHERE PLANTS ARE TO BE INSTALLED. |
| G-08 | TOP OF CURB TO MATCH WALK. TRANSITION FROM 0 TO 6"THROUGH THIS AREA |
| G-09 | RAISE DRYWELL TO TOP OF PAVEMENT REPLACE SLOTTED GRATE WITH SOLID GRATE. |

# ABBREVIATION LEGEND

| | | | |
|---|---|---|---|
| BB | BOTTOM OF BASIN | MH | MANHOLE |
| BD | BOTTOM OF DRAIN | RWL | RAINWATER LEADER |
| BS | BOTTOM OF STEP | SB | SPLASH BLOCK |
| BG | BOTTOM OF GUTTER | SE | SOIL ELEVATION |
| CO | CLEANOUT | SG | SUBGRADE ELEVATION |
| DS | DOWNSPOUT | TD | TOP OF DRAIN |
| DW | DRYWELL | TBC | TOP OF BASE COURSE |
| FL | FLOW LINE - DITCH/PAVEMENT | TC | TOP FACE OF CURB |
| FFE | FINISHED FLOOR ELEVATION | TG | TOP OF GRATE |
| FG | FINISH GRADE | TP | TOP OF PAVEMENT |
| GB | GRADE BREAK | TR | TOP OF RAMP |
| HP | HIGH POINT | TS | TOP OF STEP |
| IE | INVERT ELEVATION | TRW | TOP OF RETAINING WALL |
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| ME | MATCH EXISTING | TOW | TOP OF WALL |
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| LP | LOW POINT | UC | UNCHANGED |

0 20 40 60 feet

SCALE: 1" = 20'

NORTH

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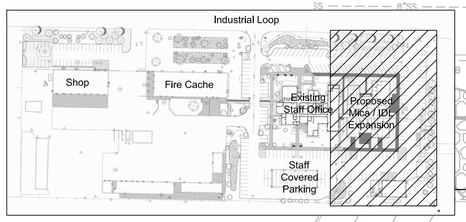
IDAHO DEPARTMENT OF LANDS DPW PROJECT #17-500

**DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE**
**3284 INDUSTRIAL LOOP, COEUR D'ALENE ID, 83815**

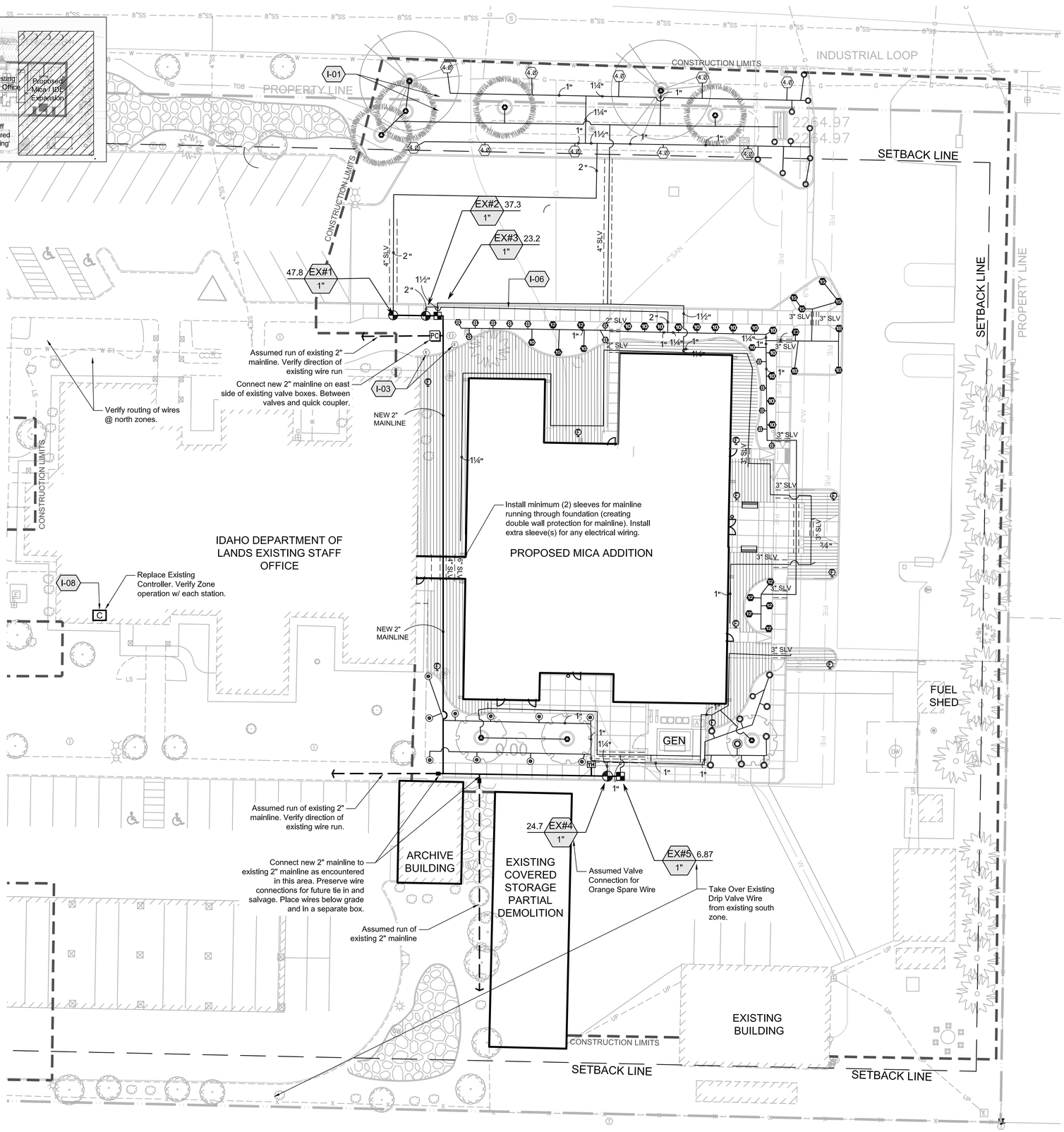
FIRE CACHE PARKING / COVERED PARKING - GRADING PLAN

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | KD |
| DRAWN BY | MP |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | |
| REVISION | RECORD SET |
| SHEET NO. | L1.22 |

S:\1658 ID Dept of Lands\Site\1658 Grading Plan.dwg plotted by: markp on Mon, August 20 2018 at 09:23 AM




KeyMap




NORTH

0 20 40 60 feet

SCALE: 1" = 20'

## IRRIGATION SCHEDULE

| SYMBOL | MANUFACTURER/MODEL/DESCRIPTION |
|---|---|
| 4V 6V 18V | Rain Bird 1804 ADJ<br>Turf Spray 4.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2" NPT Female Threaded Inlet. |
| 8 8HE–VAN 12 12HE–VAN 18 18HE–VAN 15 15HE–VAN | Rain Bird 1804 ADJ<br>Turf Spray 4.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2" NPT Female Threaded Inlet. |
| R–VAN 1318 R–VAN 1724 | Rain Bird RVAN18 RD-04-SAM-P45<br>Turf Rotator, 13'-18' Hand Adjustable Rotary Stream, w/RD-00 turf spray body, 4.0" Pop-Up. With Seal-A-Matic Check Valve and 45 psi in-stem pressure regulation. |
| Q T H TT TQ F | Rain Bird R-1318 RD-04-SAM-P45<br>Turf Rotator, 13'-18' Rotary Stream, w/RD-00 turf spray body on 4.0" pop-up, with check valve and 45 psi in-stem pressure regulator. 1/2" NPT Female Threaded Inlet. |

| SYMBOL | MANUFACTURER/MODEL/DESCRIPTION |
|---|---|
| 4.0 | Hunter I-20-04-SS<br>Turf Rotor, 4.0" Pop-Up. Adjustable and Full Circle. Stainless Steel Riser. Drain Check Valve. Standard Nozzle. |

| SYMBOL | MANUFACTURER/MODEL/DESCRIPTION |
|---|---|
| | Hunter ICZ-101-40<br>Drip Control Zone Kit. 1" ICV Globe Valve with 1" HY100 filter system, Pressure Regulation: 40psi, Flow Range: 2 GPM to 20 GPM. 150 mesh stainless steel screen. |
| | Netafim TL050MFV-1<br>Automatic flush valve, 1/2" male pipe thread. |
| | Drip Ring per Detail |
| | Area to Receive Dripline<br>Rain Bird XFD-04-12 (18)<br>XFD On-Surface Pressure Compensating Landscape Dripline. 0.4GPH emitters at 18.0" O.C. Dripline laterals spaced at 18.0" apart, with emitters offset for triangular pattern. UV Resistant. |

| SYMBOL | MANUFACTURER/MODEL/DESCRIPTION |
|---|---|
| | Rain Bird PGA Globe<br>1", 1-1/2", 2" Electric Remote Control Valve, Globe. |
| YH | 1.5" Yard Hydrant<br>1.5" Yard Hydrant with valva and stop and waste drain valve. See detail 15200, Sheet C5.03 |
| C | Rain Bird ESP8LXME<br>8 Station Capable Commercial Controller, and (2) ESPLXMSM8 - 8 station modules. Mounted on a Plastic Wall Mount. Without flow sensor. |
| PC | Tie into existing 2" Mainline |
| | Irrigation Lateral Line: Blu-Lock and PVC Class 200<br>Blu-Lock pipe, as manufactured by Hydro Rain, 1/2" to 1", then PVC Class 200 for 1-1/4" and larger. Only lateral transition pipe sizes 1 1/4" and above are indicated on the plan, with all others being 1" in size. |
| | Irrigation Mainline: Blu-Lock and PVC Class 200<br>Blu-Lock pipe, as manufactured by Hydro Rain, 1/2" to 1", then PVC Class 200 for 1-1/4" and larger. |
| X" SLV | Pipe Sleeve: PVC Schedule 40 |

Valve Callout
- Valve Number
- Valve Flow
- Valve Size

## IRRIGATION GENERAL NOTES

1. SYSTEM DESIGN BASED ON THE ASSUMPTION OF THE AVAILABILITY OF 50 GPM AND 65 PSI AT THE EXISTING MAINLINE CONNECTION POINT. FINAL PRESSURE TO BE 50 PSI AT ALL ROTORS, 40 AT ROTARY SPRAY HEADS & 30 PSI AT SPRAY HEADS.
2. CONTRACTOR TO VERIFY LOCATION OF ALL UTILITIES PRIOR TO INITIATION OF ANY DEMOLITION OR CONSTRUCTION OPERATIONS. ANY DAMAGE TO EXISTING UTILITIES SHALL BE CONTRACTOR'S RESPONSIBILITY.
3. COORDINATE ALL IRRIGATION INSTALLATION OPERATIONS WITH CIVIL, MECHANICAL, AND ELECTRICAL ENGINEERING SHEETS.
4. CONTRACTOR TO COORDINATE INSTALLATION OF IRRIGATION CONDUIT AND SLEEVES UNDER HARD SURFACE AREAS (COMPLETED IMPROVEMENTS) WITH RESPECTIVE CONTRACTORS.
5. CONTRACTOR TO OBTAIN AND PAY FOR ALL PERMITS AND FEES REQUIRED FOR THIS WORK.
6. OTHERS SHALL SUPPLY AND INSTALL TAP AND METER, REFER TO CIVIL. VERIFY TYPE OF METER AND INSTALLATION REQUIREMENTS WITH MUNICIPALITY OR WATER DISTRICT.
7. IRRIGATION PIPING LAYOUT IS SCHEMATIC WHERE LINES ARE SHOWN BELOW PAVEMENT ADJACENT TO LANDSCAPE AREAS, THEY ARE TO BE LOCATED IN THE LANDSCAPE AREA ,
8. ALL ELECTRICAL WORK TO MEET OR EXCEED N.E.C., STATE CODES, LOCAL CODES, AND MANUFACTURER'S RECOMMENDATIONS.
9. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ROCK AND DEBRIS BROUGHT TO THE SURFACE AS A RESULT OF TRENCHING OPERATIONS.
10. CONTRACTOR SHALL REFER TO SPECIFICATIONS AND DETAIL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
11. ALL PIPES NOT LABELED SHALL BE 1" MINIMUM.
12. REFER TO SPECIFICATIONS FOR AS-BUILT DRAWING SUBMITTAL.
13. ADJUST HEAD AND PIPE LOCATIONS AS REQUIRED TO AVOID SITE FEATURES. ANY MAJOR CHANGES TO PLAN SHALL BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO WORK.
14. SPRAY FOAM INSULATION AT SLEEVE ENDS AFTER ALL PIPE AND WIRE ARE INSTALLED TO HELP PREVENT WATER / SOIL FROM ENTERING SLEEVES.
15. MAKE ALL WIRE CONNECTIONS INSIDE A VALVE BOX.

## IRRIGATION KEYED NOTES

| SYMBOL | DESCRIPTION |
|---|---|
| I-01 | IRRIGATION METER AND BACKFLOW PREVENTER PER CIVIL. |
| I-03 | ADJUST EXISTING IRRIGATION HEADS TO ENSURE HEAD TO HEAD COVERAGE. PROVIDE NEW LATERAL PIPING AND HEADS AS REQUIRED. |
| I-06 | IRRIGATION MAINLINE AND VALVES TO BE LOCATED 3' FROM EDGE OF HARDSCAPE. |
| I-08 | INSTALL NEW IRRIGATION CONTROLLER INSIDE EXISTING BUILDING AND REPLACE OLD CONTROLLER. |

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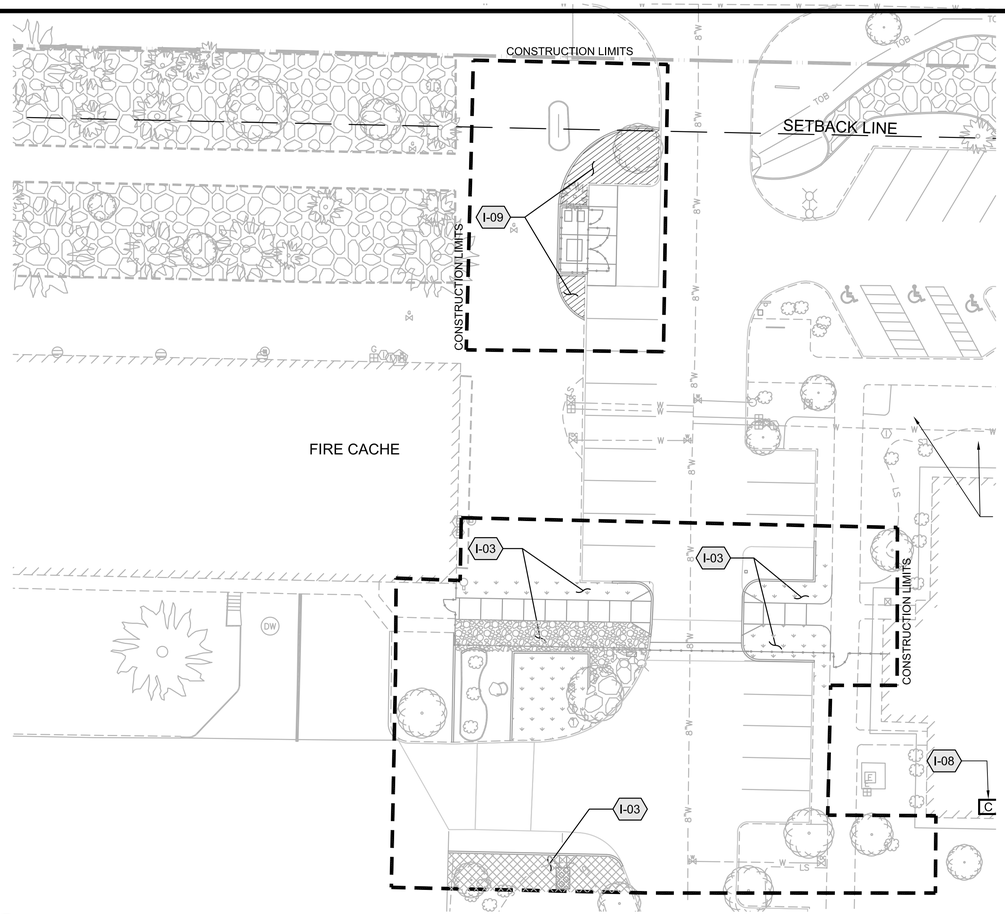
IDAHO DEPARTMENT OF LANDS DPW PROJECT #17-500

**DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE**
**3284 INDUSTRIAL LOOP, COEUR D'ALENE ID, 83815**

BASE BID: MICA SITE IMPROVEMENTS - IRRIGATION PLAN

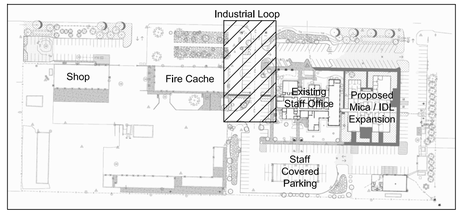
| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | KD |
| DRAWN BY | MP |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | |
| REVISION | RECORD SET |
| SHEET NO. | L1.30 |

S:\1658 ID Dept of Lands\Site\1658 Irrigation Plan.dwg plotted by: markp on Mon, August 20 2018 at 09:26 AM




1 L1.31 Alternate Bid #1: Access Control & Dumpster Relocation

SCALE: 1"=20'




KeyMap

# IRRIGATION SCHEDULE

| SYMBOL | MANUFACTURER/MODEL/DESCRIPTION |
|---|---|
| 4V 6V 18V | Rain Bird 1804 ADJ<br>Turf Spray 4.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2" NPT Female Threaded Inlet. |
| 8 8SHE–VAN 12 12HE–VAN<br>10 10HE–VAN 15 15HE–VAN | Rain Bird 1804 ADJ<br>Turf Spray 4.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2" NPT Female Threaded Inlet. |
| R–VAN 1318 R–VAN 1724 | Rain Bird RVAN18 RD-04-SAM-P45<br>Turf Rotator, 13'-18' Hand Adjustable Rotary Stream, w/RD-00 turf spray body, 4.0" Pop-Up. With Seal-A-Matic Check Valve and 45 psi in-stem pressure regulation. |
| Q T H TT TQ F | Rain Bird R-1318 RD-04-SAM-P45<br>Turf Rotator, 13'-18' Rotary Stream, w/RD-00 turf spray body on 4.0" pop-up, with check valve and 45 psi in-stem pressure regulator. 1/2" NPT Female Threaded Inlet. |

| SYMBOL | MANUFACTURER/MODEL/DESCRIPTION |
|---|---|
| 4.0 | Hunter I-20-04-SS<br>Turf Rotor, 4.0" Pop-Up. Adjustable and Full Circle. Stainless Steel Riser. Drain Check Valve. Standard Nozzle. |

| SYMBOL | MANUFACTURER/MODEL/DESCRIPTION |
|---|---|
| | Hunter ICZ-101-40<br>Drip Control Zone Kit. 1" ICV Globe Valve with 1" HY100 filter system, Pressure Regulation: 40psi, Flow Range: 2 GPM to 20 GPM. 150 mesh stainless steel screen. |
| | Netafim TL050MFV-1<br>Automatic flush valve, 1/2" male pipe thread. |
| | Drip Ring per Detail |
| | Area to Receive Dripline<br>Rain Bird XFD-04-12 (18)<br>XFD On-Surface Pressure Compensating Landscape Dripline. 0.4GPH emitters at 18.0" O.C. Dripline laterals spaced at 18.0" apart, with emitters offset for triangular pattern. UV Resistant. |

| SYMBOL | MANUFACTURER/MODEL/DESCRIPTION |
|---|---|
| | Rain Bird PGA Globe<br>1", 1-1/2", 2" Electric Remote Control Valve, Globe. |
| YH | 1.5" Yard Hydrant<br>1.5" Yard Hydrant with valva and stop and waste drain valve. See detail 15200, Sheet C5.03 |
| C | Rain Bird ESP8LXME<br>8 Station Capable Commercial Controller, and (2) ESPLXMSM8 - 8 station modules. Mounted on a Plastic Wall Mount. Without flow sensor. |
| PC | Tie into existing 2" Mainline |
| | Irrigation Lateral Line: Blu-Lock and PVC Class 200<br>Blu-Lock pipe, as manufactured by Hydro Rain, 1/2" to 1", then PVC Class 200 for 1-1/4" and larger. Only lateral transition pipe sizes 1 1/4" and above are indicated on the plan, with all others being 1" in size. |
| X" SLV | Irrigation Mainline: Blu-Lock and PVC Class 200<br>Blu-Lock pipe, as manufactured by Hydro Rain, 1/2" to 1", then PVC Class 200 for 1-1/4" and larger. |

# IRRIGATION GENERAL NOTES

1. SYSTEM DESIGN BASED ON THE ASSUMPTION OF THE AVAILABILITY OF 50 GPM AND 65 PSI AT THE EXISTING MAINLINE CONNECTION POINT. FINAL PRESSURE TO BE 50 PSI AT ALL ROTORS, 40 AT ROTARY SPRAY HEADS & 30 PSI AT SPRAY HEADS.
2. CONTRACTOR TO VERIFY LOCATION OF ALL UTILITIES PRIOR TO INITIATION OF ANY DEMOLITION OR CONSTRUCTION OPERATIONS. ANY DAMAGE TO EXISTING UTILITIES SHALL BE CONTRACTOR'S RESPONSIBILITY.
3. COORDINATE ALL IRRIGATION INSTALLATION OPERATIONS WITH CIVIL, MECHANICAL, AND ELECTRICAL ENGINEERING SHEETS.
4. CONTRACTOR TO COORDINATE INSTALLATION OF IRRIGATION CONDUIT AND SLEEVES UNDER HARD SURFACE AREAS (COMPLETED IMPROVEMENTS) WITH RESPECTIVE CONTRACTORS.
5. CONTRACTOR TO OBTAIN AND PAY FOR ALL PERMITS AND FEES REQUIRED FOR THIS WORK.
6. OTHERS SHALL SUPPLY AND INSTALL TAP AND METER. REFER TO CIVIL. VERIFY TYPE OF METER AND INSTALLATION REQUIREMENTS WITH MUNICIPALITY OR WATER DISTRICT.
7. IRRIGATION PIPING LAYOUT IS SCHEMATIC WHERE LINES ARE SHOWN BELOW PAVEMENT ADJACENT TO LANDSCAPE AREAS, THEY ARE TO BE LOCATED IN THE LANDSCAPE AREA .
8. ALL ELECTRICAL WORK TO MEET OR EXCEED N.E.C., STATE CODES, LOCAL CODES. AND MANUFACTURER'S RECOMMENDATIONS.
9. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ROCK AND DEBRIS BROUGHT TO THE SURFACE AS A RESULT OF TRENCHING OPERATIONS.
10. CONTRACTOR SHALL REFER TO SPECIFICATIONS AND DETAIL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
11. ALL PIPES NOT LABELED SHALL BE 1" MINIMUM.
12. REFER TO SPECIFICATIONS FOR AS-BUILT DRAWING SUBMITTAL.
13. ADJUST HEAD AND PIPE LOCATIONS AS REQUIRED TO AVOID SITE FEATURES. ANY MAJOR CHANGES TO PLAN SHALL BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO WORK.
14. SPRAY FOAM INSULATION AT SLEEVE ENDS AFTER ALL PIPE AND WIRE ARE INSTALLED TO HELP PREVENT WATER / SOIL FROM ENTERING SLEEVES.
15. MAKE ALL WIRE CONNECTIONS INSIDE A VALVE BOX.

# IRRIGATION KEYED NOTES

| | |
|---|---|
| I-03 | ADJUST EXISTING IRRIGATION HEADS TO ENSURE HEAD TO HEAD COVERAGE. PROVIDE NEW LATERAL PIPING AND HEADS AS REQUIRED. |
| I-09 | ADJUST EXISTING DRIP IRRIGATION TO COVER NEW PLANT MATERIAL. NOTIFY LANDSCAPE ARCHITECT IF DRIP EQUIPMENT IS NOT ENCOUNTERED IN THIS AREA. |

| SYMBOL | Planting DESCRIPTION |
|---|---|
| P-101 | INSTALL 4" DEPTH RIVER ROCK MULCH TO MATCH EXISTING |
| P-102 | 4" DEPTH BARK MULCH OVER PLANTING SOIL AS SPECIFIED. TO MATCH EXISTING. |

0 20 40 60 feet

SCALE: 1" = 20'

NORTH

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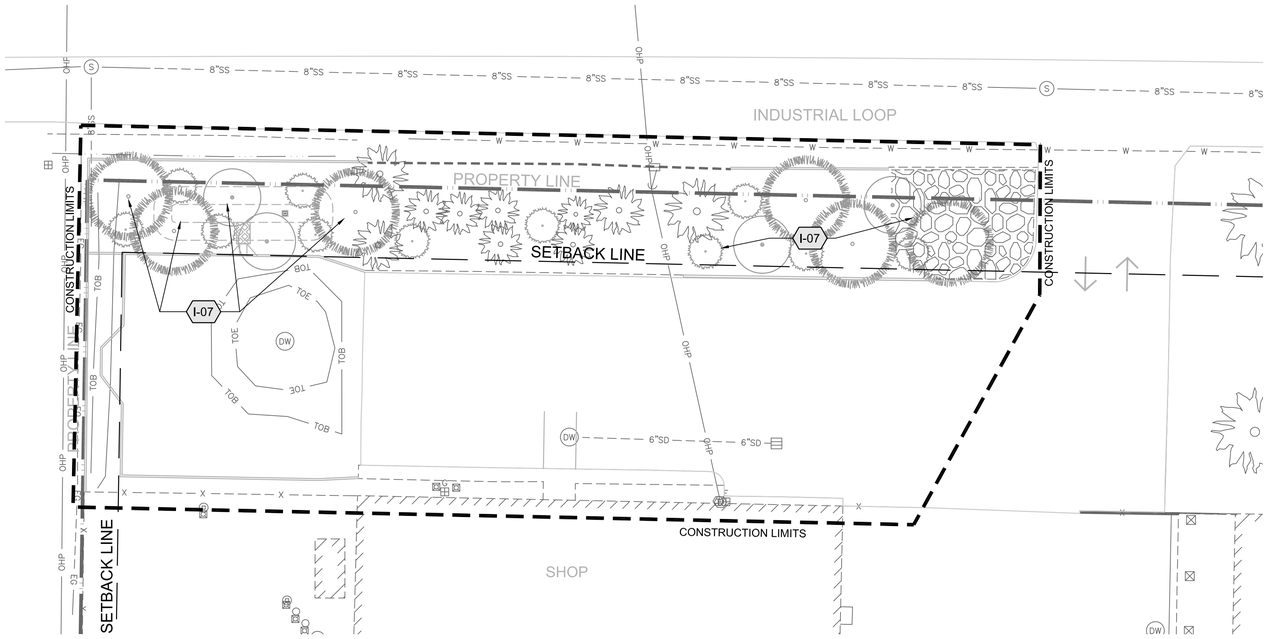
IDAHO DEPARTMENT OF LANDS DPW PROJECT #17-500

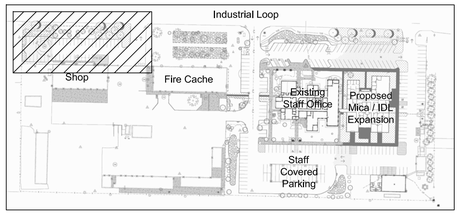
**DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE**

**3284 INDUSTRIAL LOOP, COEUR D'ALENE ID, 83815**

ACCESS CONTROL - IRRIGATION PLAN

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | KD |
| DRAWN BY | MP |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | |
| REVISION | RECORD SET |
| SHEET NO. | L1.31 |

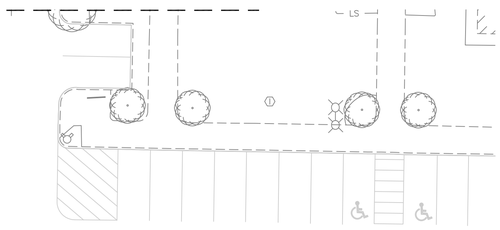


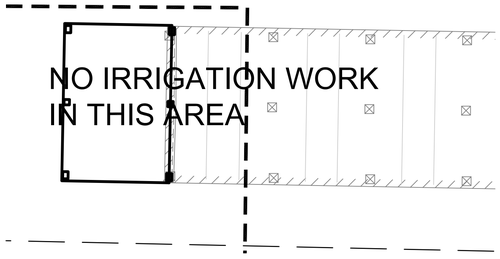



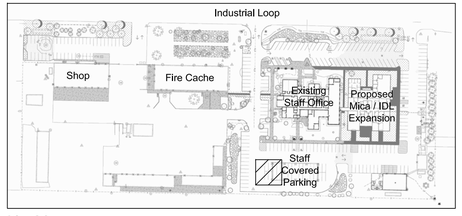

KeyMap

## 1 L1.32 Alternate Bid #2: NW Fire Cache/Shop Parking Improvements

SCALE: 1"=20'




KeyMap

## 2 L1.32 Alternate Bid #3: Covered Parking Expansion

SCALE: 1"=20'

# IRRIGATION KEYED NOTES

| SYMBOL | Irrigation DESCRIPTION |
|---|---|
| I-07 | INSTALL TEMPORARY TREE IRRIGATION. TREE GATOR WATERING BAGS - REFILL EVERY WEEK TILL THE END OF GROWING SEASON (OCTOBER 15TH). |

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IDAHO DEPARTMENT OF LANDS DPW PROJECT #17-500

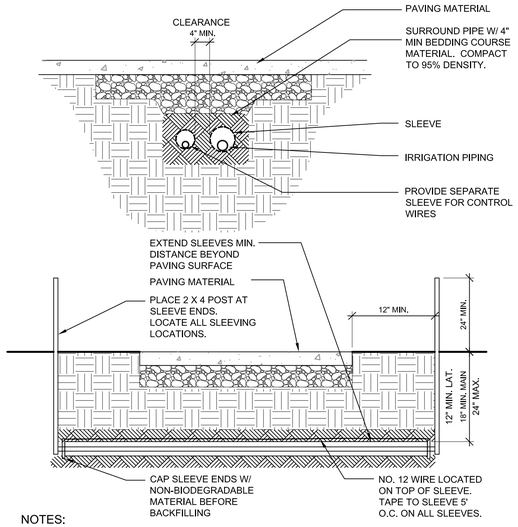
**DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE**
**3284 INDUSTRIAL LOOP, COEUR D'ALENE ID, 83815**

FIRE CACHE / COVERED PARKING - IRRIGATION PLAN

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | KD |
| DRAWN BY | MP |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | |
| REVISION | RECORD SET |
| SHEET NO. | L1.32 |

0 20 40 60 feet
SCALE: 1" = 20'

NORTH

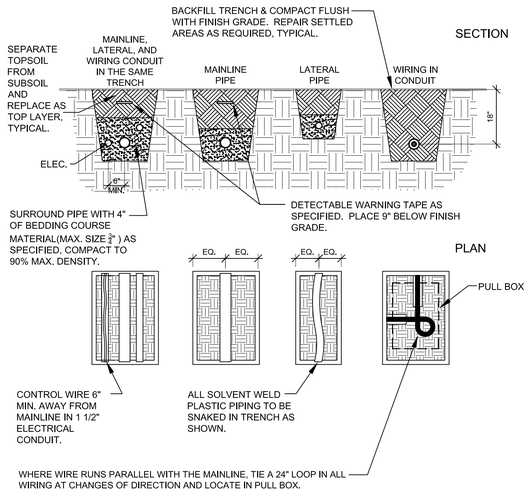



NOTES:

1. ALL IRRIGATION SLEEVES TO BE PVC PIPE AS SPECIFIED.
2. ALL JOINTS TO BE SOLVENT WELDED AND WATER TIGHT.
3. MECHANICALLY TAMP BACKFILL TO 95% MAX. DENSITY AS SPECIFIED.

## 1 | IRRIGATION SLEEVING

NTS

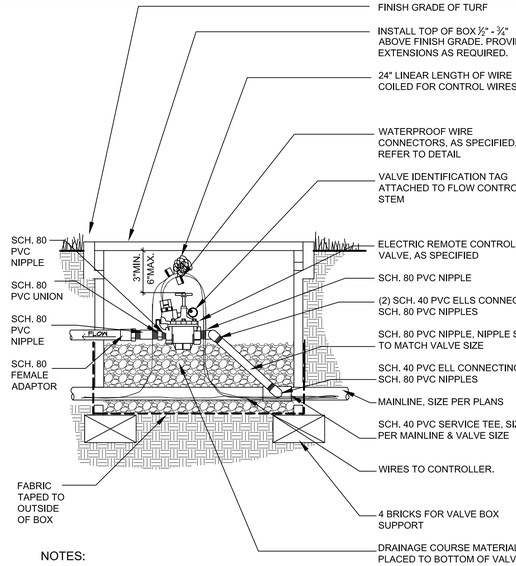



NOTES:

1. SLEEVE BELOW ALL HARDSCAPE ELEMENTS TWICE THE DIAMETER OF THE PIPE WITHIN.
2. FOR PIPE AND WIRE BURIAL DEPTHS, SEE SPECIFICATIONS. 328400

## 2 | PIPE & WIRE TRENCHING

NTS



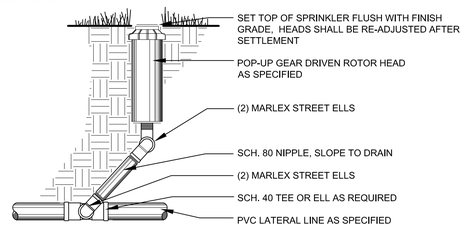

NOTES:

1. VALVE BOXES WHICH ARE MODIFIED TO ACCOMMODATE POORLY LOCATED LATERAL LINES, MAINLINES OR VALVES WILL NOT BE ACCEPTED.
2. ONE VALVE PER BOX FOR 2" AND LARGER VALVES.

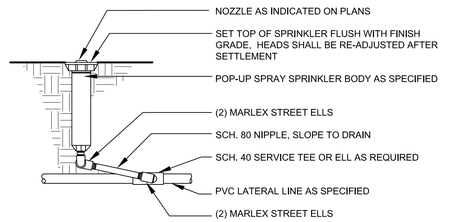
## 3 | REMOTE CONTROL VALVE

NTS

GEARED ROTOR HEAD




TURF ROTARY /SPRAY HEAD

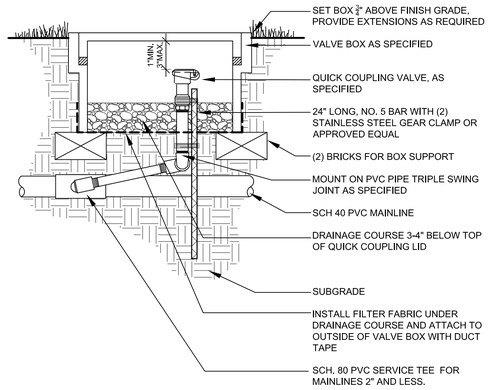



NOTES:

1. PROVIDE FITTINGS AND PIPE AS REQUIRED TO MATCH SPRINKLER INLET.
2. SEE IRRIGATION PLAN FOR APPLICABLE DETAILS.
3. INSTALL DRIP SYSTEM OPERATION INDICATOR SIMILAR TO TURF ROTARY / SPRAY HEAD.

## 4 | SPRINKLER HEADS

NTS

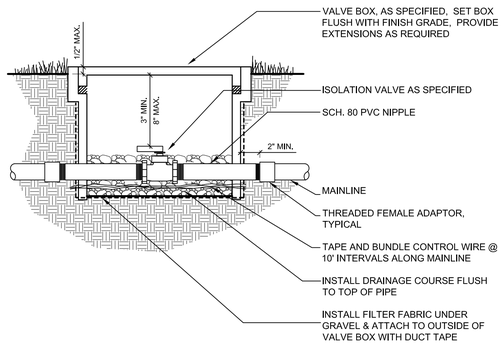



NOTES:

1. ALL THREADED JOINTS SHALL HAVE THREAD TAPE.
2. FOR QUICK COUPLING VALVES USED IN WINTERIZATION OF SYSTEM, SEE SPECIFICATIONS FOR SPECIFIC VALVE SIZE AND TYPE.

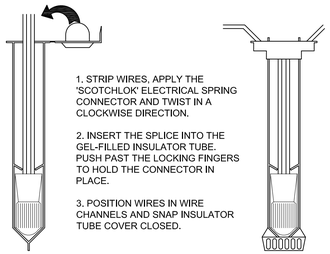
## 5 | QUICK COUPLING VALVE

NTS




## 7 | ISOLATION VALVE

NTS




## 8 | WIRE SPLICE

NTS

328406.33-13

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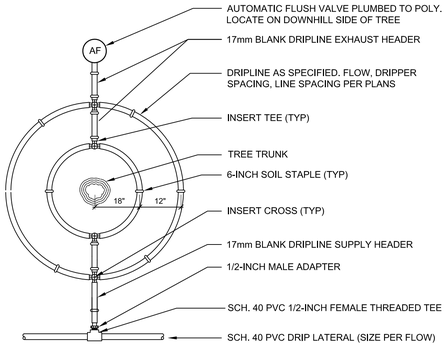
IDAHO DEPARTMENT OF LANDS DPW PROJECT #17-500

**DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE**

**3284 INDUSTRIAL LOOP, COEUR D'ALENE ID, 83815**

# IRRIGATION DETAILS

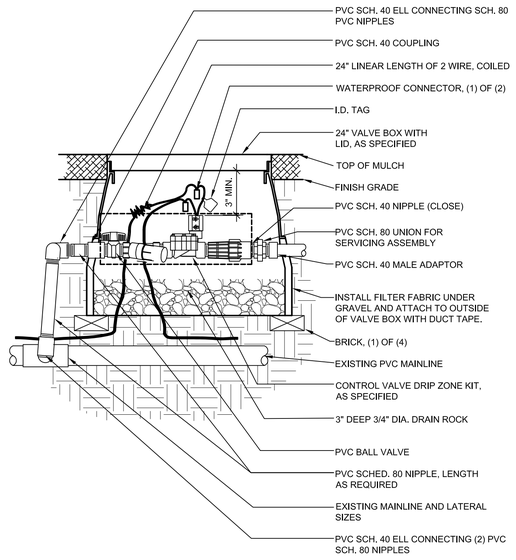
| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | KD |
| DRAWN BY | MP |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | |
| REVISION | RECORD SET |
| SHEET NO. | L1.33 |



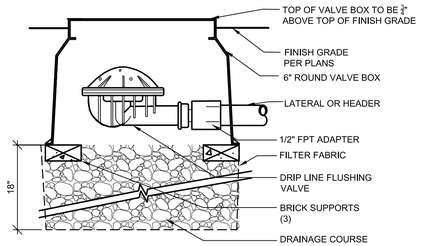

NOTE:

ALL TREES THAT FALL WITHIN AREAS OF DRIP TUBING ARE TO BE INSTALLED WITH RINGS UNLESS NOTED OTHERWISE. IF NO DEAD END EXISTS IN DRIP PIPING, FLUSH VALVE IS TO BE OMITTED.

## 1 | TREE DRIP RING
NTS

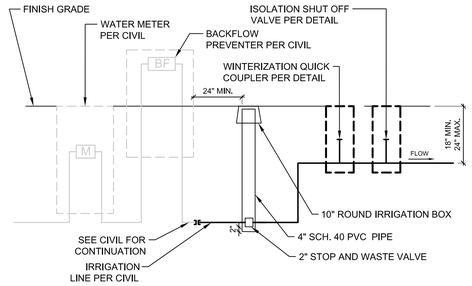



## 2 | DRIP ZONE CONTROL VALVE
NTS

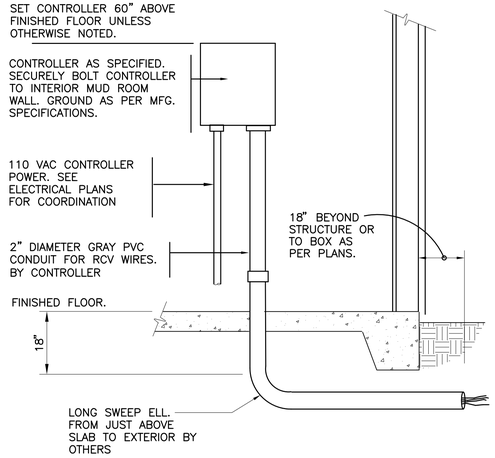



NOTE:
1. PRIOR TO INSTALLATION OF AUTOMATIC FLUSH VALVE, CONTRACTOR TO MANUALLY FLUSH SYSTEM AND VERIFY NO DEBRIS IS PRESENT.

## 3 | AUTOMATIC FLUSH VALVE
NTS




## 4 | IRRIGATION POINT OF CONNECTION
1/2" = 1'-0"




NOTE: COORDINATE LOCATION OF CONTROLLER WITH ALL OTHER TRADES.

## 5 | WALL MOUNTED IRRIGATION CONTROLLER
3/4" = 1'-0"

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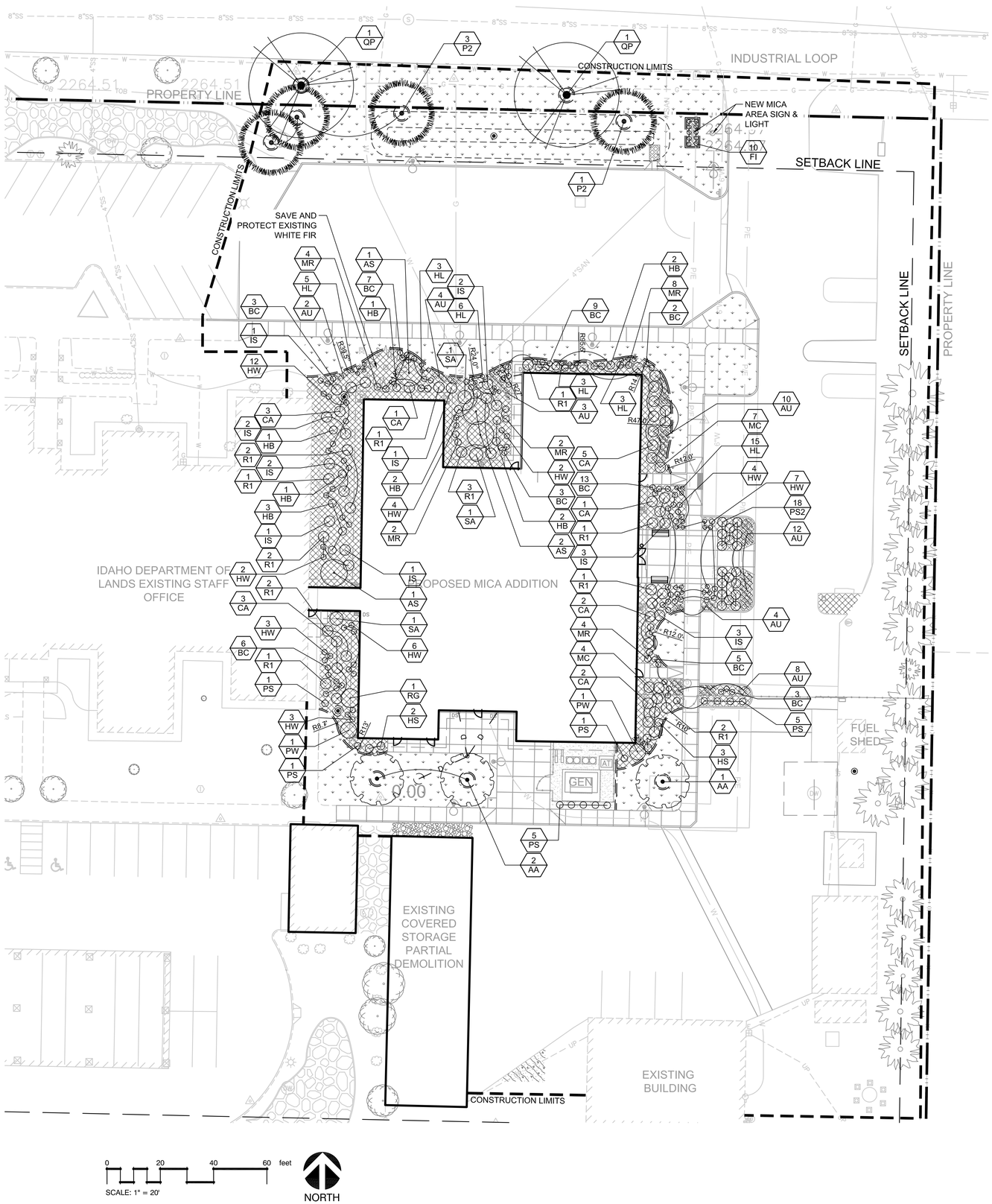
IDAHO DEPARTMENT OF LANDS DPW PROJECT #17-500

**DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE**
**3284 INDUSTRIAL LOOP, COEUR D'ALENE ID, 83815**

# IRRIGATION DETAILS

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | KD |
| DRAWN BY | MP |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | |
| REVISION | RECORD SET |
| SHEET NO. | L1.34 |




## PLANTING LEGEND

LANDSCAPE EDGING, SEE DETAIL 5, SHEET L1.43

EXISTING TREES, SAVE AND PROTECT PER DETAIL 4, SHEET L1.43

PROPOSED TREES AND SHRUBS TO BE INSTALLED PER DETAILS 1, 2, & 3, SHEET L1.43

3' RADIUS BARK TREE RING AT ALL EXISTING AND PROPOSED TREE LOCATIONS

2 AG — PLANT CALLOUT: QUANTITY / PLANT IDENTIFICATION KEY

| | |
|---|---|
| INSTALL 4" DEPTH RIVER ROCK MULCH TO MATCH EXISTING | 157 sf |
| 4" DEPTH BARK MULCH OVER PLANTING SOIL AS SPECIFIED. TO MATCH EXISTING. | 6,088 sf |
| TURF SEED OVER PLANTING SOIL | 10,313 sf |
| TYPE 1 MINERAL MULCH 4" DEPTH COMPACTED AS SPECIFIED | 382 sf |

## PLANT SCHEDULE

| TREES | QTY | BOTANICAL NAME / COMMON NAME | CONT | CAL | SIZE | REMARKS |
|---|---|---|---|---|---|---|
| AA | 3 | Acer rubrum `Armstrong` / Armstrong Red Maple | B & B | 2"Cal | | |
| QP | 2 | Quercus palustris / Pin Oak | B & B | 2"Cal | | Strong Leader. Matched |

| EVERGREEN TREES | QTY | BOTANICAL NAME / COMMON NAME | CONT | CAL | SIZE | REMARKS |
|---|---|---|---|---|---|---|
| P2 | 4 | Pinus monticola / Western White Pine | B & B | | 6`-8` HT. | Native. State Tree |

| SHRUBS | QTY | BOTANICAL NAME / COMMON NAME | SIZE | FIELD2 | FIELD3 | REMARKS |
|---|---|---|---|---|---|---|
| AS | 4 | Amelanchier alnifolia / Serviceberry | 5 gal | | | Sun to Full Shade. Firewise |
| CA | 17 | Cornus sericea `Alleman`s Compact` / Dwarf Red Twig Dogwood | 5 gal | | | Sun to Shade. Firewise |
| HB | 12 | Hydrangea arborescens `Bella Anna` / Bella Anna Hydrangea | 5 gal | | | |
| IS | 16 | Ilex glabra `Shamrock` / Inkberry | 5 gal | | | |
| MC | 11 | Mahonia aquifolium `Compacta` / Compact Oregon Grape | 5 gal | | | Sun to Shade. Firewise. |
| MR | 20 | Mahonia repens / Creeping Mahonia | 1 gal | | | Sun to Shade. Firewise |
| PW | 2 | Philadelphus lewisii / Wild Mockorange | 5 gal | | | Sun. Native. Firewise. |
| PS2 | 18 | Pinus mugo `Slowmound` / Mugo Pine | 5 gal | | | |
| R1 | 17 | Rhododendron x `P.J.M` / P.J.M Rhododendron | 5 gal | | | Part to Full Shade. Firewise |
| RG | 1 | Rhus aromatica `Gro-Low` / Gro-Low Fragrant Sumac | 5 gal | | | Full Sun. Firewise |
| SA | 3 | Symphoricarpos albus / Common White Snowberry | 5 gal | | | Sun to Part Shade. Firewise. |

| ANNUALS/PERENNIALS | QTY | BOTANICAL NAME / COMMON NAME | SIZE | FIELD2 | FIELD3 | REMARKS |
|---|---|---|---|---|---|---|
| BC | 51 | Bergenia cordifolia / Heartleaf Bergenia | 1 gal | | | Sun to Part Shade. Evergreen. Purple Foliage in Fall. Firewise. |
| HL | 35 | Hosta lancifolia / Narrow Leaved Hosta | 1 gal | | | Full to Part Shade. |
| HW | 43 | Hosta sieboldiana `Frances Williams` / Frances Williams Hosta | 1 gal | | | Full to Part Shade. |

| GRASSES | QTY | BOTANICAL NAME / COMMON NAME | SIZE | FIELD2 | FIELD3 | REMARKS |
|---|---|---|---|---|---|---|
| FI | 10 | Festuca idahoensis / Idaho Fescue | 1 gal | | | Full Sun to Part Shade. Firewise |
| HS | 5 | Helictotrichon sempervirens / Blue Oat Grass | 1 gal | | | Full Sun. |
| PS | 13 | Panicum virgatum `Shenandoah` / Switch Grass | 1 gal | | | Full Sun. Green turns to Red. |

| GROUND COVERS | QTY | BOTANICAL NAME / COMMON NAME | CONT | FIELD2 | FIELD3 | SPACING | REMARKS |
|---|---|---|---|---|---|---|---|
| AU | 43 | Arctostaphylos uva-ursi / Kinnikinnick | 6" PLUG | | | 36" o.c. | Part Shade. Firewise |

## LANDSCAPE GENERAL NOTES

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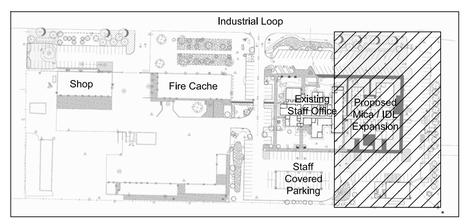
2. ALL PLANT MATERIAL SHALL CONFORM TO THE CURRENT AMERICAN ASSOCIATION OF NURSERYMAN'S NATIONAL STANDARD SPECIFICATIONS.
3. ALL PLANT MATERIAL SHALL BE INSTALLED AS PER DETAILS AND CONTRACT SPECIFICATIONS.
4. CONTRACTOR SHALL VERIFY ALL QUANTITIES. IN THE CASE OF A DISCREPANCY, THE ILLUSTRATED LOCATIONS SHALL DICTATE COUNT.
5. CONTRACTOR SHALL COORDINATE PLANTING WITH IRRIGATION CONTRACTOR.
6. NO SUBSTITUTIONS WILL BE ALLOWED WITHOUT THE CONSENT OF THE LANDSCAPE ARCHITECT.




KeyMap

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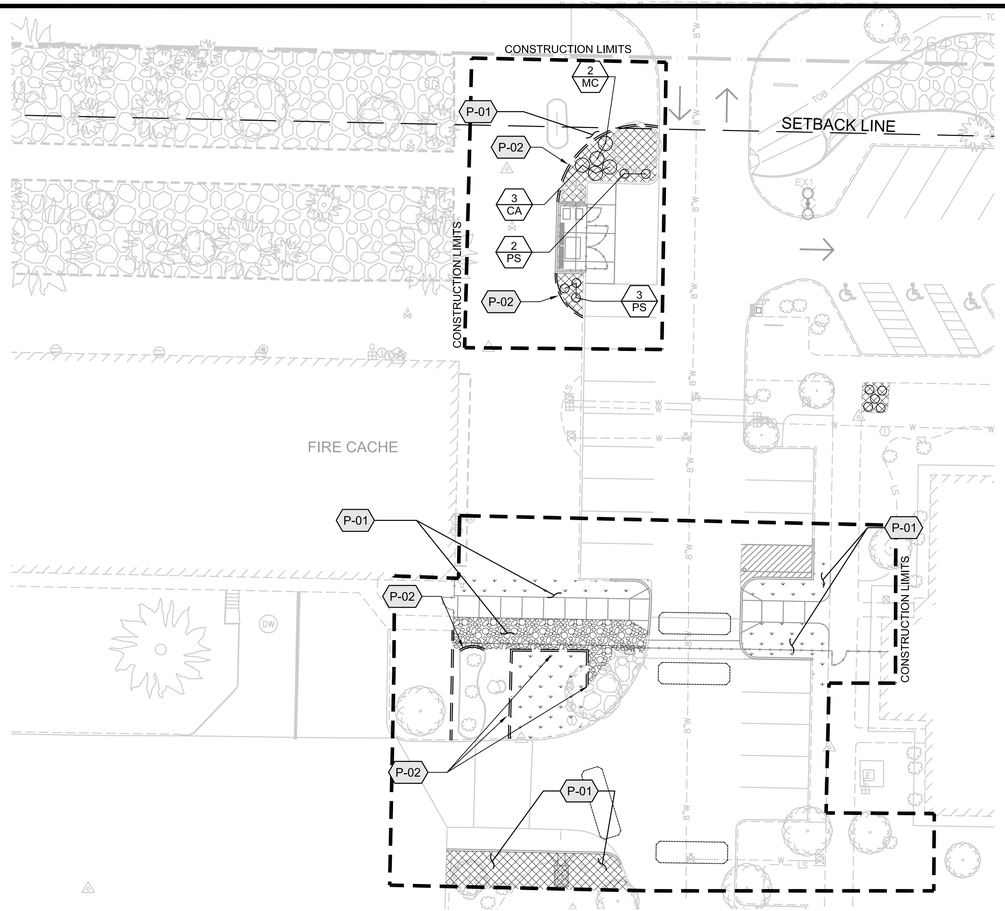
IDAHO DEPARTMENT OF LANDS DPW PROJECT #17-500

**DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE**

**3284 INDUSTRIAL LOOP, COEUR D'ALENE ID, 83815**

BASE BID: MICA SITE IMPROVEMENTS - LANDSCAPE PLAN

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | KD |
| DRAWN BY | MP |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | |
| REVISION | RECORD SET |
| SHEET NO. | L1.40 |




1 L1.41 Alternate Bid #1: Access Control & Dumpster Relocation
SCALE: 1"=20'

# PLANT SCHEDULE

| SHRUBS | QTY | BOTANICAL NAME / COMMON NAME | SIZE | REMARKS |
|---|---|---|---|---|
| CA | 3 | Cornus sericea `Alleman`s Compact` / Dwarf Red Twig Dogwood | 5 gal | Sun to Shade. Firewise |
| MC | 2 | Mahonia aquifolium `Compacta` / Compact Oregon Grape | 5 gal | Sun to Shade. Firewise. |

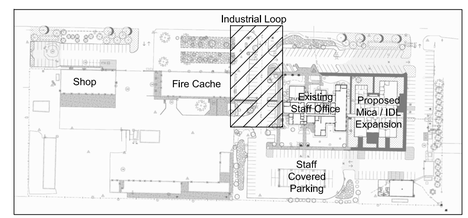
| GRASSES | QTY | BOTANICAL NAME / COMMON NAME | SIZE | REMARKS |
|---|---|---|---|---|
| PS | 5 | Panicum virgatum `Shenandoah` / Switch Grass | 1 gal | Full Sun. Green turns to Red. |

| SYMBOL | Planting DESCRIPTION | QTY | DETAIL |
|---|---|---|---|
| P-01 | PATCH BACK TURF / LANDSCAPE / LANDSCAPE MULCH AS REQUIRED | | |
| P-02 | INSTALL CONCRETE EDGING PER DETAIL | | 5/L1.43 |

| SYMBOL | Planting DESCRIPTION | QTY | DETAIL |
|---|---|---|---|
| | INSTALL 4" DEPTH RIVER ROCK MULCH TO MATCH EXISTING | 498 sf | |
| | 4" DEPTH BARK MULCH OVER PLANTING SOIL AS SPECIFIED. TO MATCH EXISTING. | 981 sf | |
| | TURF SEED OVER PLANTING SOIL | 1,177 sf | |

# LANDSCAPE GENERAL NOTES

1. CONTRACTOR TO VERIFY LOCATION OF ALL UTILITIES PRIOR TO INITIATION OF ANY DEMOLITION OR CONSTRUCTION OPERATIONS. ANY DAMAGE TO EXISTING UTILITIES SHALL BE CONTRACTOR'S RESPONSIBILITY.
2. ALL PLANT MATERIAL SHALL CONFORM TO THE CURRENT AMERICAN ASSOCIATION OF NURSERYMAN'S NATIONAL STANDARD SPECIFICATIONS.
3. ALL PLANT MATERIAL SHALL BE INSTALLED AS PER DETAILS AND CONTRACT SPECIFICATIONS.
4. CONTRACTOR SHALL VERIFY ALL QUANTITIES. IN THE CASE OF A DISCREPANCY, THE ILLUSTRATED LOCATIONS SHALL DICTATE COUNT.
5. CONTRACTOR SHALL COORDINATE PLANTING WITH IRRIGATION CONTRACTOR.
6. NO SUBSTITUTIONS WILL BE ALLOWED WITHOUT THE CONSENT OF THE LANDSCAPE ARCHITECT.




KeyMap

0 20 40 60 feet
SCALE: 1" = 20'

NORTH

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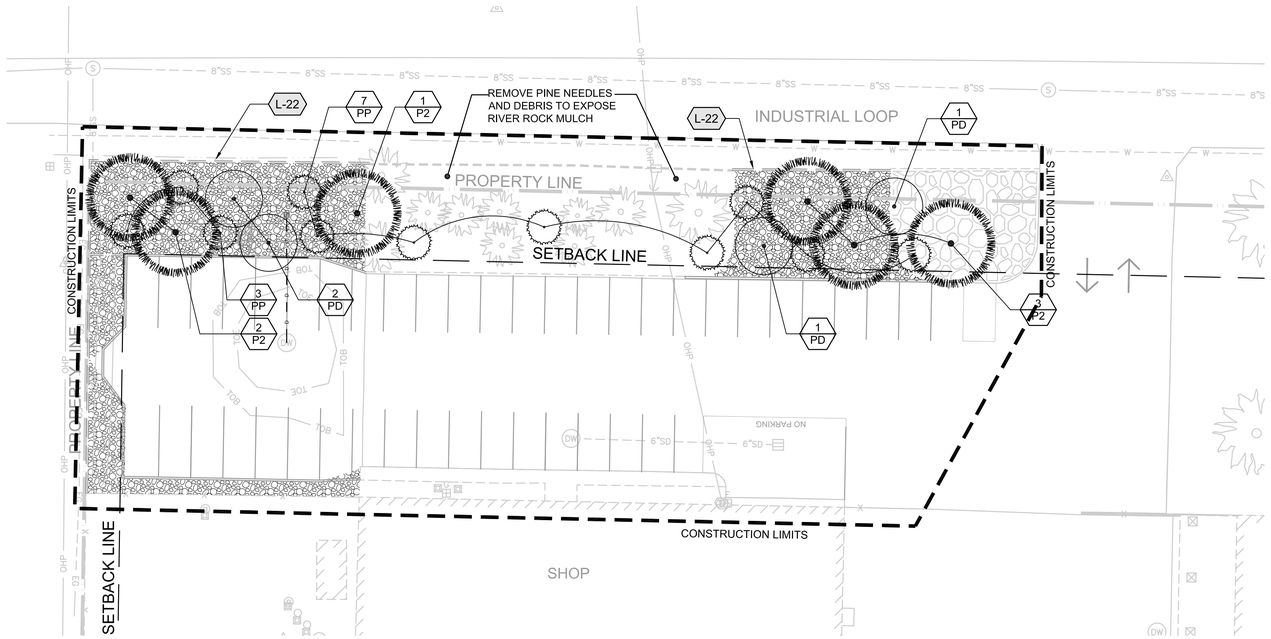
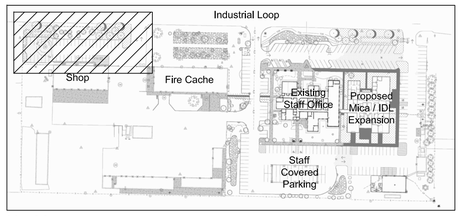
IDAHO DEPARTMENT OF LANDS DPW PROJECT #17-500

**DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE**
**3284 INDUSTRIAL LOOP, COEUR D'ALENE ID, 83815**

ACCESS CONTROL - LANDSCAPE PLAN

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | KD |
| DRAWN BY | MP |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | |
| REVISION | RECORD SET |
| SHEET NO. | L1.41 |

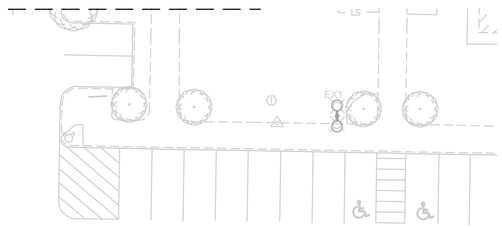


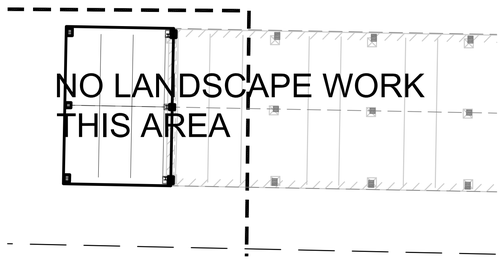



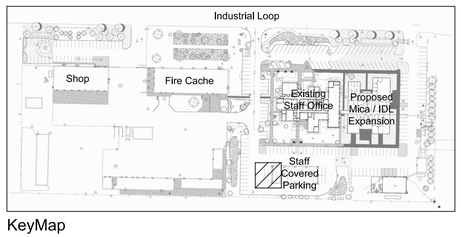

KeyMap

1 L1.42 Alternate Bid #2: NW Fire Cache/Shop Parking Improvements

SCALE: 1"=20'




KeyMap

2 L1.42 Alternate Bid #3: Covered Parking Expansion

SCALE: 1"=20'

## PLANT SCHEDULE

| TREES | QTY | BOTANICAL NAME / COMMON NAME | CONT | SIZE | REMARKS |
|---|---|---|---|---|---|
| PP | 11 | Pinus ponderosa / Ponderosa Pine | 15 gal | 4'-5' | Preferred Stock, container grown, Not balled/burlapped. |
| PD | 4 | Pseudotsuga menziesii / Douglas Fir | B & B | 6'-7' | |

| EVERGREEN TREES | QTY | BOTANICAL NAME / COMMON NAME | CONT | SIZE | REMARKS |
|---|---|---|---|---|---|
| P2 | 6 | Pinus monticola / Western White Pine | B & B | 6'-8" HT. | Native, State Tree |

L-22 INSTALL SALVAGED RAILROAD TIMBERS LANDSCAPE EDGE - SUPPLEMENT TIMBERS AS REQUIRED

| SYMBOL | Planting DESCRIPTION | QTY |
|---|---|---|
| | INSTALL 4" DEPTH RIVER ROCK MULCH TO MATCH EXISTING | 4,242 sf |

## LANDSCAPE GENERAL NOTES

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IDAHO DEPARTMENT OF LANDS DPW PROJECT #17-500

**DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE**
**3284 INDUSTRIAL LOOP, COEUR D'ALENE ID, 83815**

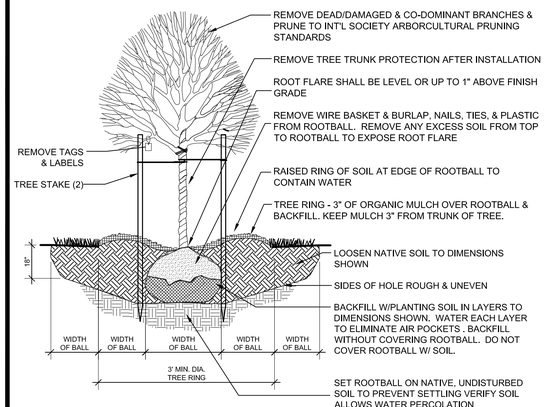
FIRE CACHE / COVERED PARKING - LANDSCAPE PLAN

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | KD |
| DRAWN BY | MP |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | |
| REVISION | RECORD SET |
| SHEET NO. | L1.42 |

0 20 40 60 feet
SCALE: 1" = 20'

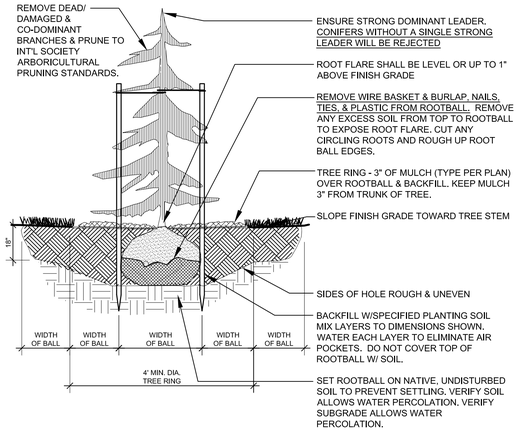
NORTH

S:\1658 ID Dept of Lands\Site\1658 Landscape Plan.dwg plotted by: markp on Mon, August 20 2018 at 09:28 AM



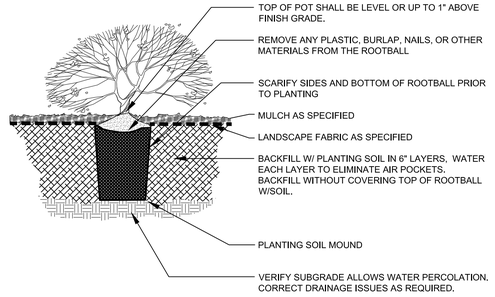

NOTES:
1. PLANT MATERIALS MUST MEET THE MINIMUM ACCEPTABLE STANDARD SET BY THE AMERICAN ASSOCIATION OF NURSERYMEN'S ANSI Z60.1 AMERICAN STANDARD FOR NURSERY STOCK.
2. WATER NEW TREES DURING SUMMER MONTHS TO A DEPTH OF 12" TO 18" ONCE PER WEEK, (ABOUT 5 GALLONS OF WATER PER CALIPER INCH), FOR THE FIRST 3 GROWING SEASONS. DURING PERIODS OF DROUGHT, NEW TREES NEED MORE FREQUENT WATERING.
3. SET STAKES PARALLEL TO PREVAILING WIND. FLEXIBLE TIES SHOULD SUPPORT TREE (DO NOT OVER-TIGHTEN), BUT ALLOW TREE TO SWAY. ALL STAKES AND TIES SHALL BE REMOVED WITHIN ONE YEAR AFTER PLANTING.

## DECIDUOUS TREE PLANTING
NTS



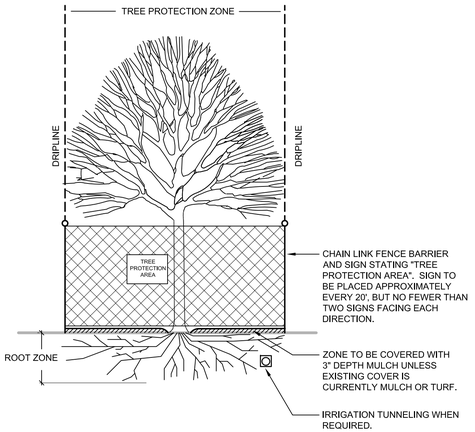

NOTES:
1. PLANT MATERIALS MUST MEET STANDARDS OF AMERICAN ASSOC. OF NURSERYMEN'S "AMERICAN STANDARD FOR NURSERY STOCK" (ANSI Z60.1-1996). IN ADDITION, PLANT MATERIAL WILL BE REVIEWED FOR BARK DAMAGE, DECAY, SUN SCALD, PESTS, AND OBJECTIONABLE DISFIGUREMENT.
2. MAINTAIN MOIST SOIL CONDITIONS AROUND THE ROOTBALL AT ALL TIMES. TREES WILL BE REJECTED IF ROOTBALLS ARE HOT OR DRY.
3. STAKE TREE FOR STABILITY. TIES SHOULD SUPPORT TREE, BUT ALLOW TREE TO SWAY. ALL STAKES AND TIES SHALL BE REMOVED WITHIN ONE YEAR.

## CONIFER TREE PLANTING
NTS




NOTES:
1. PLANT MATERIALS MUST MEET STANDARDS OF AMERICAN ASSOC. OF NURSERYMEN'S "AMERICAN STANDARD FOR NURSERY STOCK" (ANSI Z60.1-2004). PLANT MATERIAL WILL BE REVIEWED FOR COMPLIANCE AND REJECTED AS REQUIRED.
2. MAINTAIN MOIST SOIL CONDITIONS AROUND THE ROOTBALL AT ALL TIMES. SHRUBS WILL BE REJECTED IF ROOTBALLS ARE HOT OR DRY.

## SHRUB PLANTING
NTS




NOTES:
1. CONTRACTOR SHALL KEEP TREE PROTECTION ROOT ZONE MOIST AT ALL TIMES. COORDINATE WITH OWNER AND WATER AS REQUIRED.
2. NO CHEMICALS, EQUIPMENT, OR OTHER DETRIMENTAL ACTIVITIES SHALL BE ALLOWED WITHIN THE FENCED AREA UNLESS APPROVED BY LANDSCAPE ARCHITECT.
3. WHEN CONSTRUCTION ACTIVITIES ARE APPROVED WITHIN TREE PROTECTION ZONE, THE FOLLOWING PRECAUTIONS MUST BE FOLLOWED:
   - 6" DEPTH MULCH OR SHREDDED WOOD CHIPS AND 3/4" PLYWOOD PANELS FOR ALL AREAS THAT REQUIRE EQUIPMENT ACCESS.
   - ROOTS TWO INCHES OR LARGER IN DIAMETER SHALL BE BE CUT SQUARE WITH SHARP SAW OR SHEERS.
   - IRRIGATION TRENCHES SHALL TUNNEL UNDER TREE ROOTS LARGER THAN 2" DIAMETER.
4. MAINTAIN PROTECTION ZONES FREE OF WEEDS AND TRASH
5. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

## 4 | EXISTING TREE PROTECTION
NTS

CONCRETE EDGING
NOTES:
1. SCORE JOINTS @ 3' O.C.
2. COLOR AND FINISH OF CONCRETE AS SPECIFIED.

## 5 | LANDSCAPE EDGING
3" = 1'-0"

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IDAHO DEPARTMENT OF LANDS DPW PROJECT #17-500

**DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE**

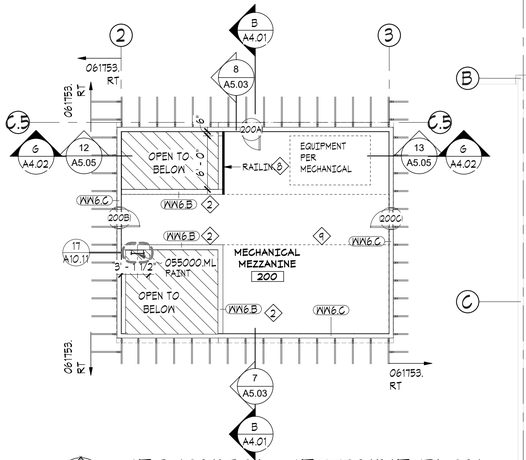
**3284 INDUSTRIAL LOOP, COEUR D'ALENE ID, 83815**

# PLANTING DETAILS

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | KD |
| DRAWN BY | MP |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | |
| REVISION | RECORD SET |
| SHEET NO. | |

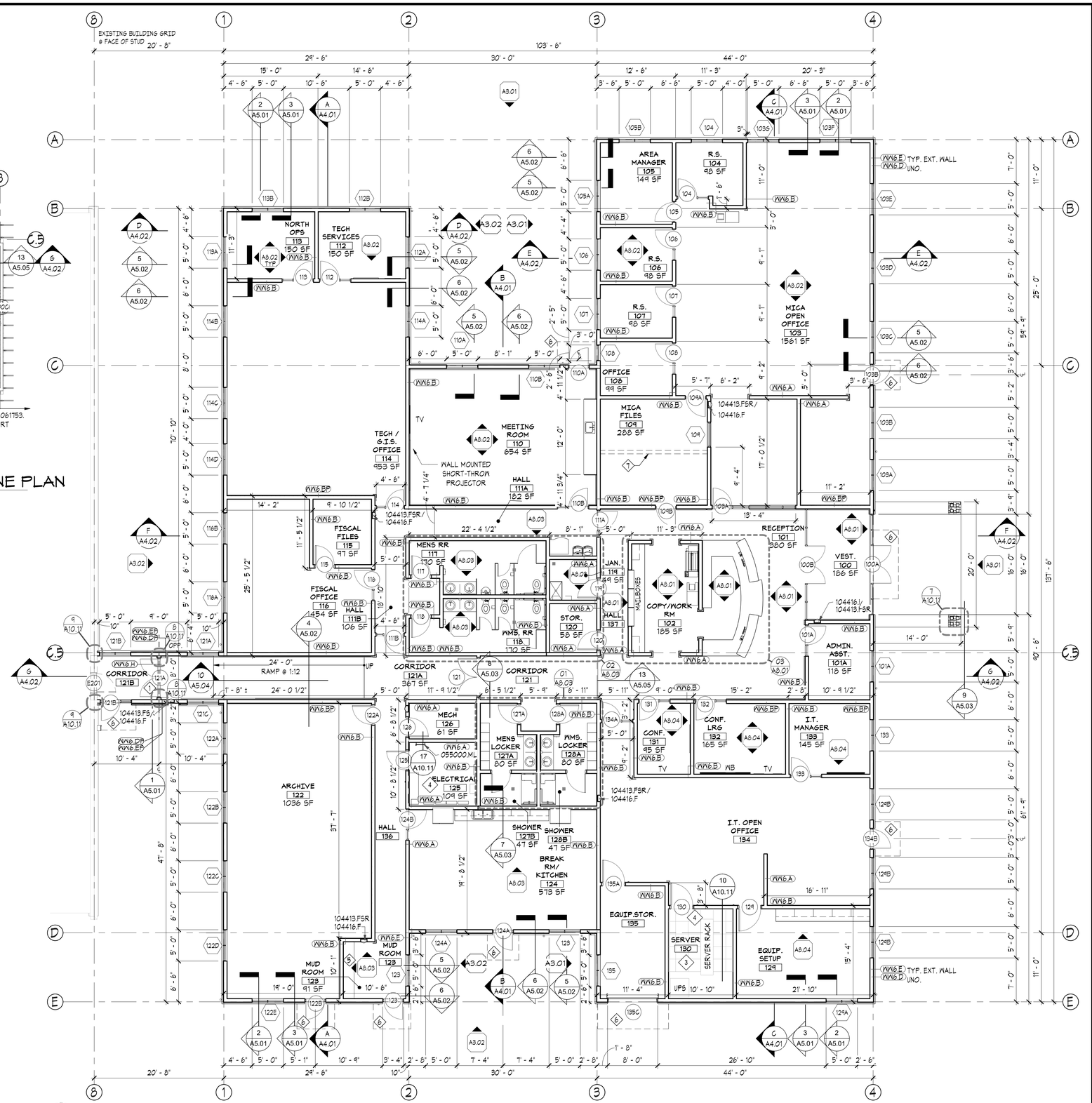
**L1.43**

S:\1658 ID Dept of Lands\Site\1658 Landscape Details.dwg plotted by: martyp on Mon, August 20 2018 at 09:28 AM




## MECHANICAL MEZZANINE PLAN

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




## FLOOR PLAN

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

## MATERIALS KEYING LEGEND

| Keynote No. | Keynote Description |
|---|---|
| 055000.ML | METAL LADDER |
| 104413.FSR | SEMI-RECESSED FIRE EXT. CABINET |
| 104416.F | FIRE EXTINGUISHER |

## KEY NOTES

1. FIRE WALL SHALL BE CENTERED BETWEEN EXISTING BUILDING GRID B & NEW ADDITION GRID 1
2. 3' - 8" HIGH WALL W/ WOOD TRIM PER DETAIL 9.5/A10.30
3. ACCESS FLOOR SYSTEM 096900.AFS SEE DETAIL 10/A10.11
4. PROVIDE 5/8" FIRE-TREATED PLYWD WALL FINISH IN LIEU OF 5/8" GWB IN ELECTRICAL 125 & SERVER 130; PAINTED WHITE
5. BENCH
6. SEE FROST HEAVE PROTECTION DETAIL A10.11
7. LINE OF POTENTIAL FUTURE WALL
8. (3) 2X12, ATTACHED W/ SCREWS & EVENLY SPACED T.O. FIRST BOARD @ 44" AFF. MUST SUPPORT REQ'D LATERAL FORCES PER CODE FOR 5'-6"W X 30'-0"L CLEAR FLOOR SPACE W/ NO PENETRATIONS. MAINTAIN CLEAR SPACE W/ 8'0" MIN. HEADROOM IN THIS AREA

## GENERAL NOTES

1. SEE OTHER 'A' SERIES SHEETS FOR ADDITIONAL INFORMATION WHERE APPLICABLE.
2. SEE MECH, ELECTRICAL, STRUCTURAL, AND OTHER SYSTEMS DRAWINGS FOR INFORMATION NOT INDICATED ON THIS SHEET.
3. ALL DIMENSIONS ARE TO FACE OF STRUCTURE, CENTERLINE OF STRUCTURE, OR CENTERLINE OF DOOR/WINDOW UNLESS NOTED OTHERWISE
4. CONTRACTOR TO COORDINATE ROUGH OPENINGS FOR WINDOWS AND DOORS WITH WINDOW/DOOR MANUFACTURER
5. SEE A10-SERIES SHEETS FOR WALL, FLOOR, ROOF TYPES AND APPLICABLE DETAILS
6. SEE A9-SERIES SHEETS FOR DOOR, WINDOW, AND ROOM-FINISH SCHEDULES
7. SEE A0-SERIES SHEETS FOR ABBREVIATIONS & SYMBOLS
8. SHEER WALL TO BE SHEATHED ON THE SIDE OF THE WALL TYPE CALLOUT

## WALL LEGEND

SEE WALL TYPES & FLOOR PLANS FOR SIZES AND DIMENSIONS OF WALLS.
ALL WALLS EXTEND TO UNDERSIDE OF ROOF JOIST/TRUSSES ABOVE UNLESS INDICATED OTHERWISE. IF ACOUSTIC INSULATION IS SHOWN, IT SHALL EXTEND FULL HEIGHT OF WALL. SEE STRUCTURAL FOR TOP OF WALL CONNECTIONS.

- 2-HOUR FIRE WALL
- STUD WALL
- STUD WALL W/ STONE VENEER
- XXX — WALL TYPE - SEE SHEET A10.01
- L — CORNER GUARDS

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- Mechanical Engineer: KARTCHNER ENGINEERING 6814 SOUTH JACKSON RIDGE LANE GREENACRES, WA 99016 509.922.0383
- Electrical Engineer: TRINDERA ENGINEERING 1875 N. LAKEWOOD DRIVE STE. 201 COEUR D'ALENE, ID 208.620.3314
- Surveyor: J-U-B ENGINEERS, INC. 7825 MEADOWLARK WAY COEUR D'ALENE IDAHO, 83815 208.762.8787

# IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500

## DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE

## 3284 INDUSTRIAL LOOP, COEUR D'ALENE, IDAHO 83815

FLOOR PLAN

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | SJR/GMJ |
| DRAWN BY | RF / RM |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | SJR |
| REVISION | RECORD SET |
| SHEET NO. | A2.01 |

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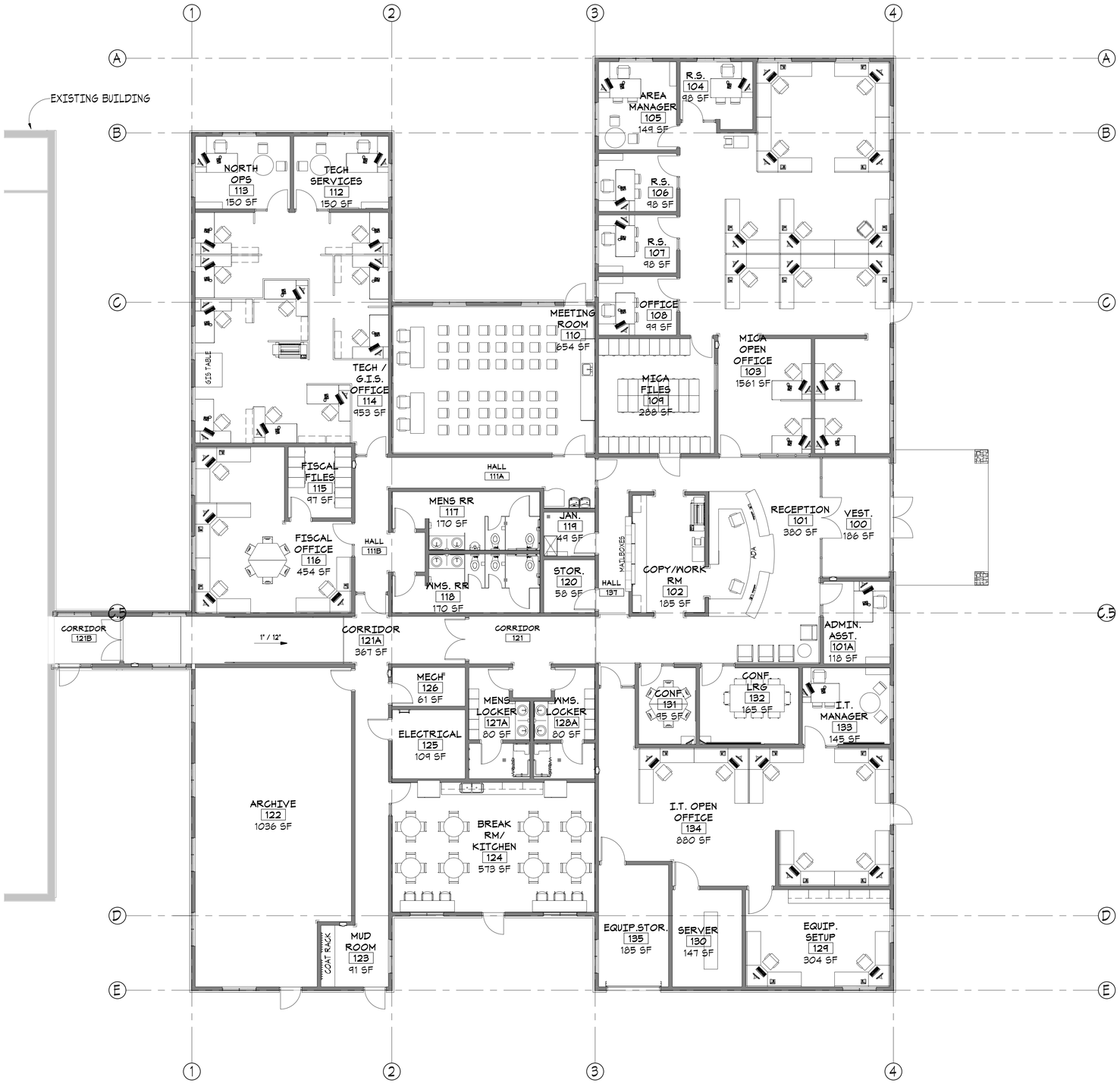


## FURNITURE PLAN - FOR REFERENCE ONLY

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

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# IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500

## DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE

## 3284 INDUSTRIAL LOOP, COEUR D'ALENE, IDAHO 83815

FLOOR PLAN - FURNITURE

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | SJR/GMJ |
| DRAWN BY | RF / RM |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | SJR |
| REVISION | RECORD SET |
| SHEET NO. | A2.10 |

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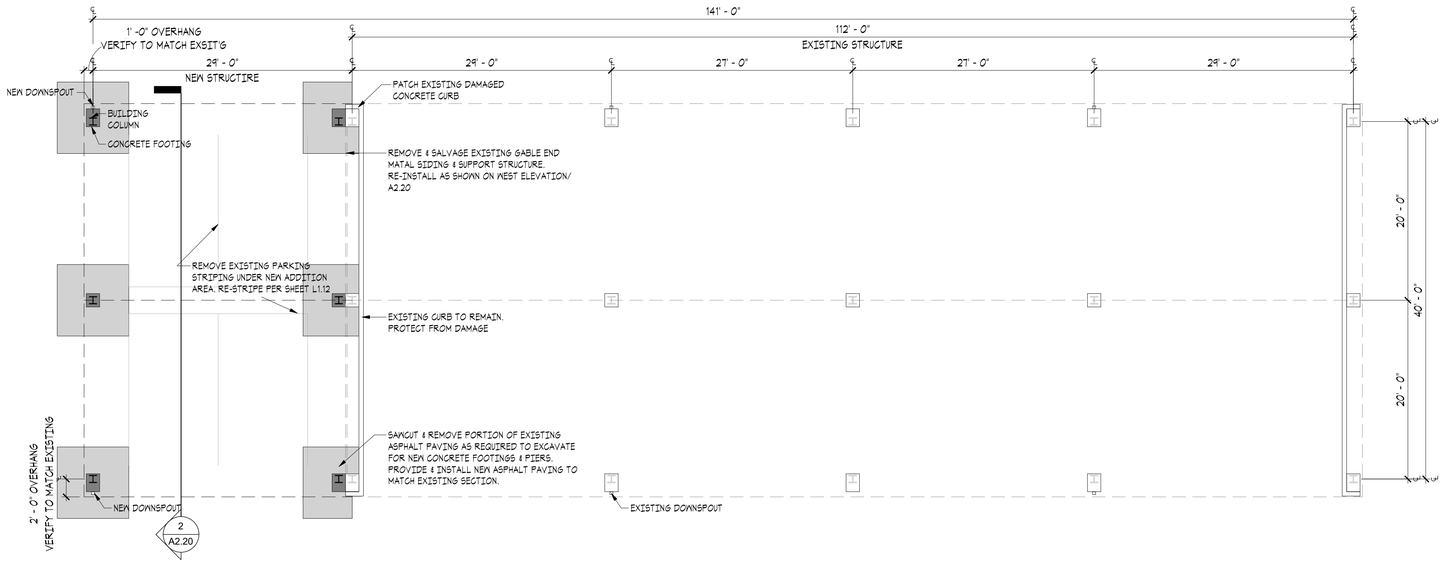
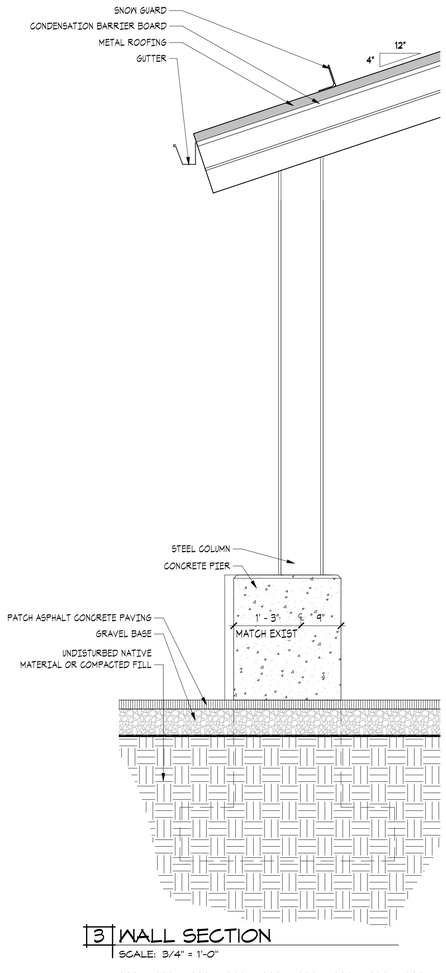


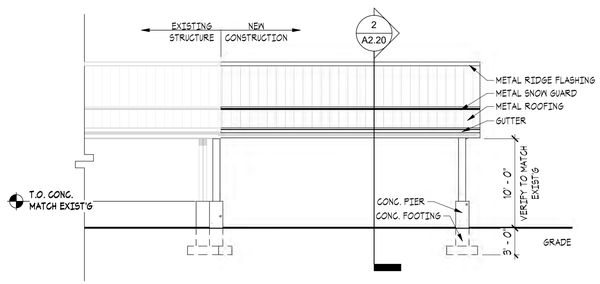

## COVERED PARKING PLAN - ALTERNATE NO. 3

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



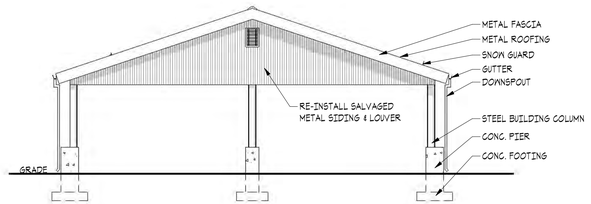

## 3 WALL SECTION

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



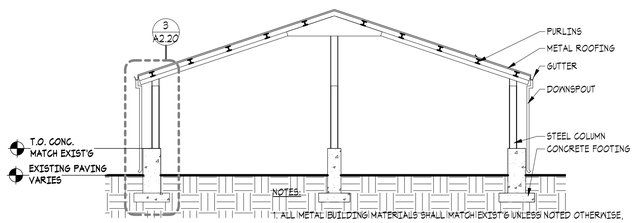

## 5 EXTERIOR ELEVATION (NORTH SIMILAR OPPOSITE)

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




## W EXTERIOR ELEVATION

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




NOTES:

1. ALL METAL BUILDING MATERIALS SHALL MATCH EXIST'G UNLESS NOTED OTHERWISE, INCLUDING BUT NOT LIMITED TO; ROOFING SYSTEM COMPONENTS, BEAMS, GIRDERS, PURLINS, COLUMNS, GUTTERS & DOWNSPOUTS.

2. PRE-FINISHED AND PAINTED METAL COMPONENT COLORS SHALL MATCH EXSIT'G

## 2 BUILDING SECTION

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

## MATERIALS KEYING LEGEND

## KEY NOTES

## GENERAL NOTES

1. METAL BUILDING MANUFACTURER SHALL MATCH EXISTING MATERIALS & CONSTRUCTION DETAILS.

## WALL LEGEND

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# IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500

DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE

3284 INDUSTRIAL LOOP, COEUR D'ALENE, IDAHO 83815

COVERED PARKING ADDITION - ALTERNATE NO. 3

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | SJR/GMJ |
| DRAWN BY | RF / RM |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | SJR |
| REVISION | RECORD SET04.18.2017 |
| SHEET NO. | |

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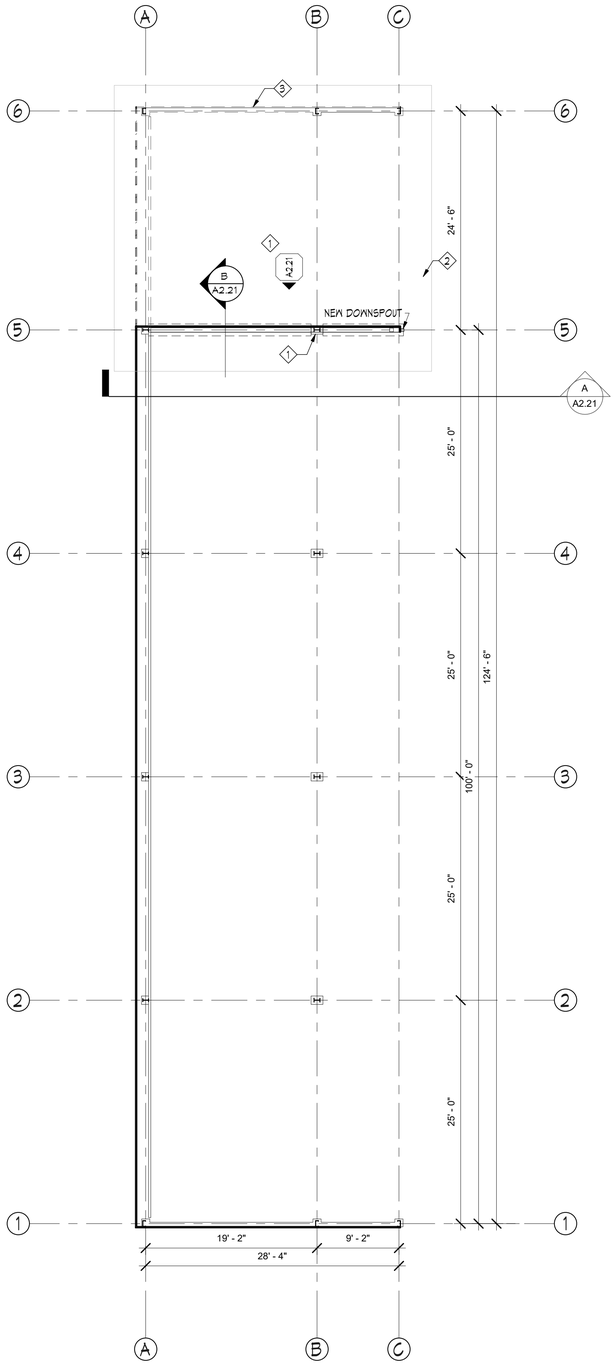
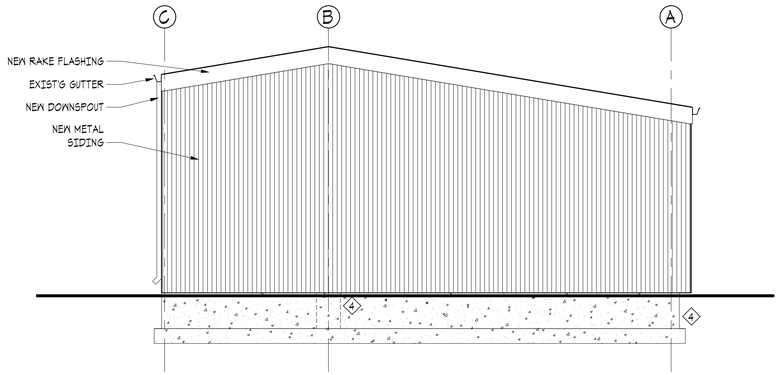


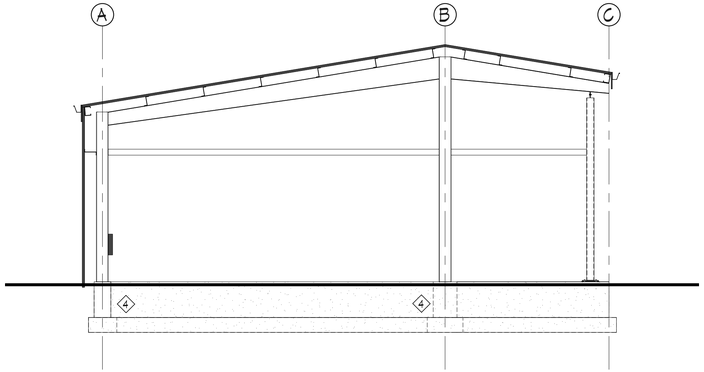

## STORAGE BUILDING PLAN

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



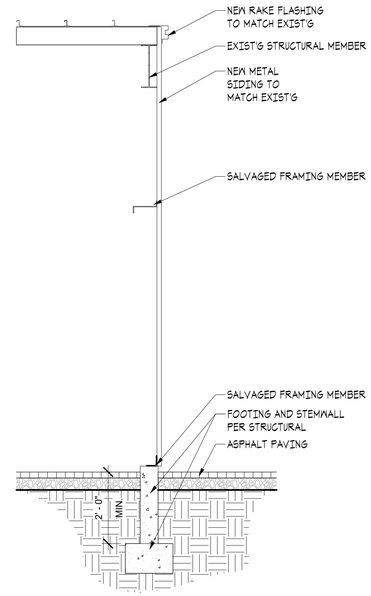

## N EXTERIOR ELEVATION

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




## A BUILDING SECTION

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




## B WALL SECTION

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

# MATERIALS KEYING LEGEND

| Keynote No. | Keynote Description |
|---|---|

## KEY NOTES

1. REMOVE PORTION OF EXIST'G BUILDING NORTH OF GRID 5 INCLUDING CONCRETE FOUNDATIONS & FOOTINGS. STRUCTURAL FRAME AND FOUNDATIONS ON GRID 5 TO REMAIN
2. SAWCUT & REMOVE PORTION OF ASPHALT PAVING AS REQ'D TO EXCAVATE FOR DEMOLITION & NEW WORK, PATCH BACK AS SHOWN ON SHEET L1.10
3. REMOVE WALL & SALVAGE FRAMING MEMBERS FOR RE-INSTALLATION AT GRID 2 TO ACCOMODATE NEW METAL SIDING TO MATCH EXISTING.
4. EXIST'G CONC. PIER AND FOOTING. FIELD VERIFY ACTUAL CONDITIONS

## GENERAL NOTES

1. METAL BUILDING MANUFACTURER SHALL MATCH EXISTING MATERIALS & CONSTRUCTION DETAILS

## WALL LEGEND

## KEY PLAN

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  COEUR D'ALENE, ID 83815
  208.782.8787
- Landscape Architect
  ARCHITECTS WEST
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  208.667.9402
- Structural Engineer
  DCI ENGINEERS
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  SPOKANE, WA 99201
  509.445.4448
- Mechanical Engineer
  KARTCHNER ENGINEERING
  6814 SOUTH JACKSON RIDGE LANE
  GREENACRES, WA 99016
  509.922.0383
- Electrical Engineer
  TRINDERA ENGINEERING
  1670 N. LAKEWOOD DRIVE
  STE. 201 COEUR D'ALENE, ID
  208.620.3314
- Surveyor
  J-U-B ENGINEERS, INC.
  7825 MEADOWLARK WAY
  COEUR D'ALENE IDAHO, 83815
  208.672.8787

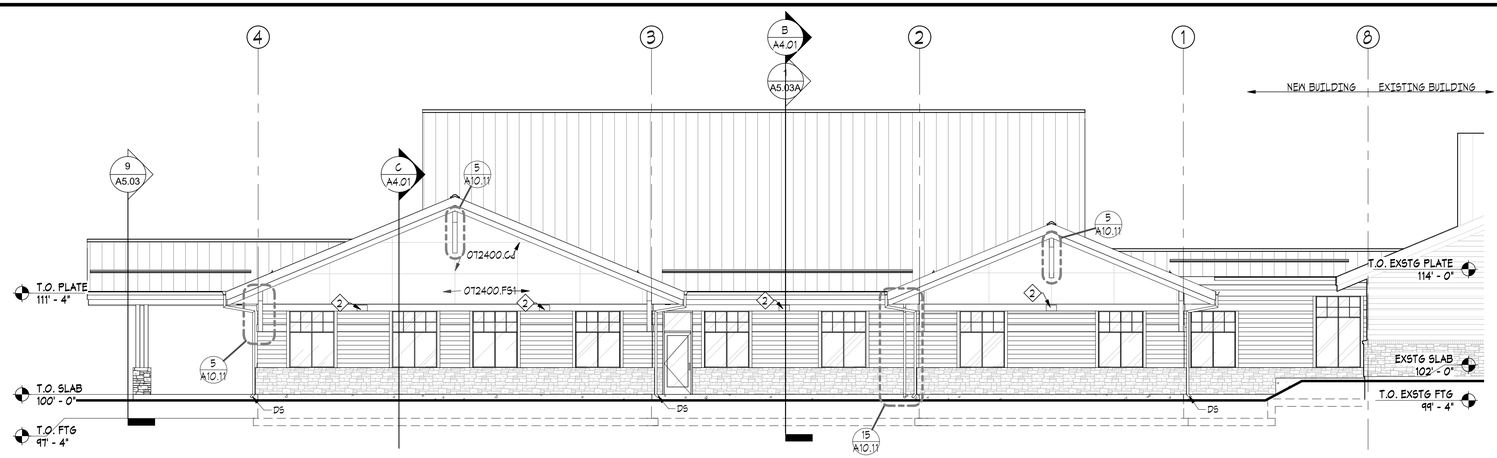
# IDAHO DEPARTMENT OF LANDS

DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE

3284 INDUSTRIAL LOOP, COEUR D'ALENE, IDAHO 83815

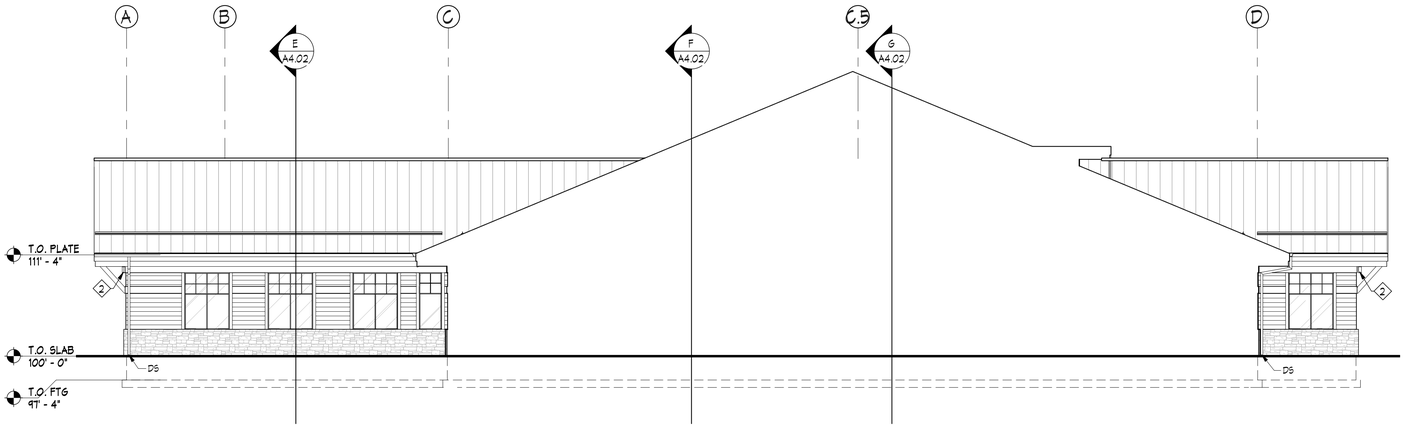
STORAGE BUILDING

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | SJR / GMJ |
| DRAWN BY | RF |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | GMJ |
| REVISION | RECORD SET |
| SHEET NO. | A2.21 |



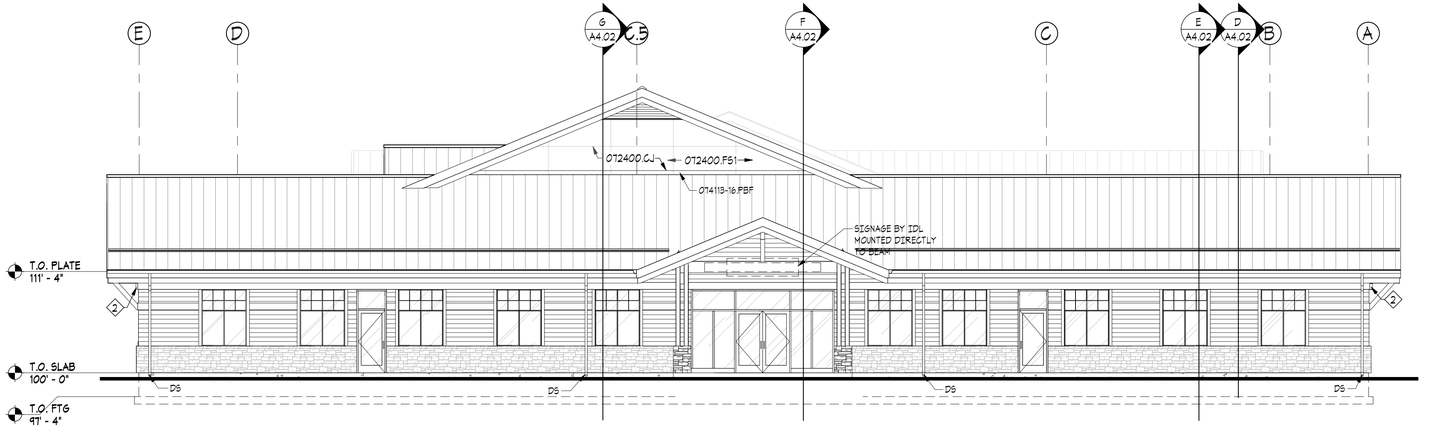

N NORTH EXTERIOR ELEVATION

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




W2 WEST EXTERIOR ELEVATION

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




E1 EAST EXTERIOR ELEVATION

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

## MATERIALS KEYING LEGEND

| Keynote No. | Keynote Description |
|---|---|
| | |
| 033000.CF | CONCRETE FOUNDATION |
| 033000.CFG | CONCRETE FOOTING |
| 047200.CSV | CAST STONE VENEER |
| 062013.KB | KNEE BRACE |
| 062013.T20 | 2x10 TRIM |
| 062013.WS | WOOD SIDING |
| 072400.CJ | EIFS CONTROL/AESTHETIC JOINT |
| 072400.FS1 | EXT INSUL AND FINISH SYSTEM OVER POLYSTYRENE BD INSUL |
| 074113-16.MR | PRE-FINISHED METAL ROOFING |
| 074113-16.RV | PRE-FINISHED METAL RIDGE VENT |
| 074113-16.S | CONT PRE-FINISHED METAL SNOW GUARD |
| 076200.F | PREFINISHED METAL FASCIA |
| 076200.G | GUTTER |

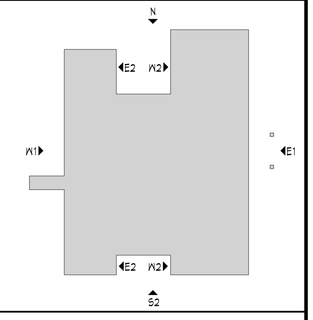
## KEY NOTES

1. CAST STONE VENEER SHALL BE BORAL CULTURED STONE. COLOR SHALL BE A COMBINATION OF COBBLERFIELD TEXAS CREAM & DESERT BLEND. CONTRACTOR SHALL PROVIDE A 4' X 6' MOCKUP FOR PROPOSED PERCENTAGE OF EACH COLOR FOR APPROVAL.
2. LIGHT FIXTURE PER ELECTRICAL

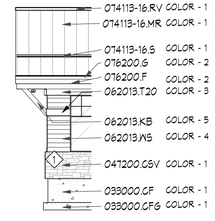
## GENERAL NOTES

1. SEE OTHER 'A' SERIES SHEETS FOR INFORMATION NOT INDICATED HERE
2. SEE MECH, ELECTRICAL, STRUCTURAL, AND OTHER SYSTEMS DRAWINGS FOR INFORMATION NOT INDICATED HERE

## ELEVATION KEY PLAN




## MATERIALS FACE LEGEND

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# IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500

DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE

3284 INDUSTRIAL LOOP, COEUR D'ALENE, IDAHO 83815

EXTERIOR ELEVATIONS

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | SJR/GMJ |
| DRAWN BY | RF / RM |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | SJR |
| REVISION | RECORD SET |
| SHEET NO. | |

A3.01

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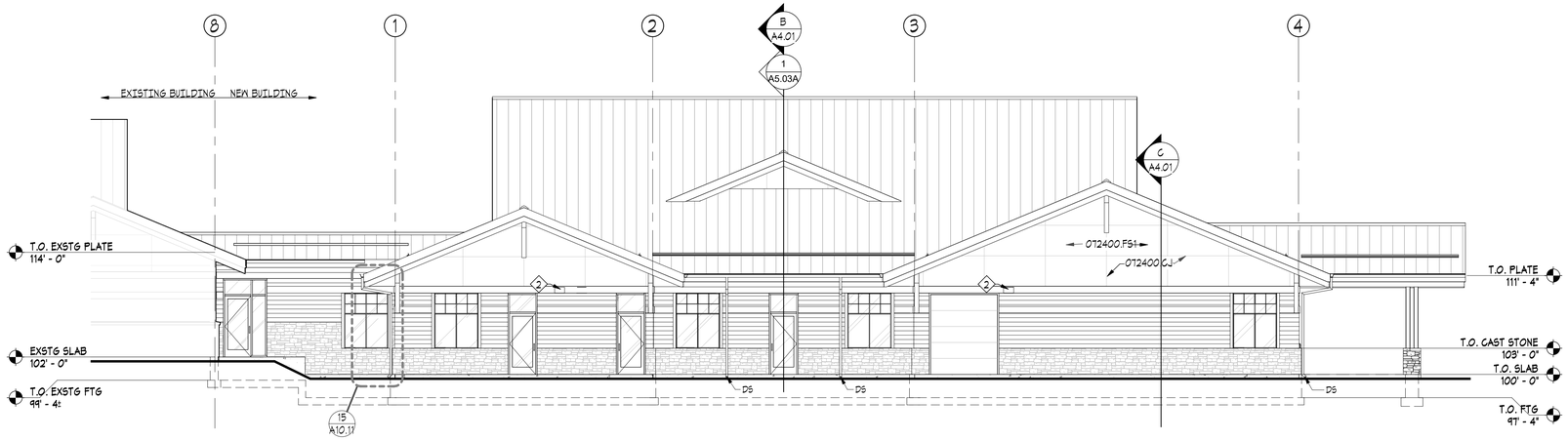
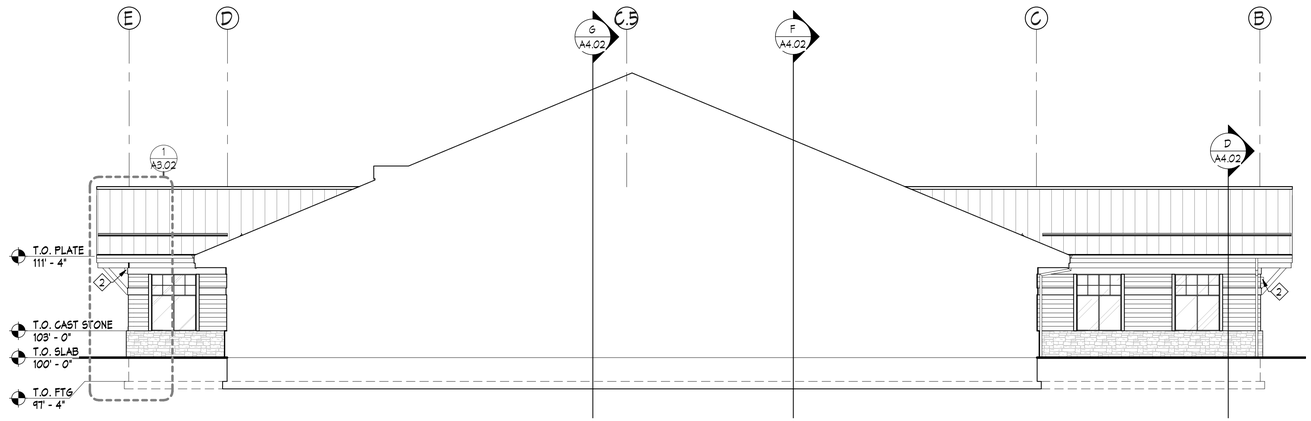


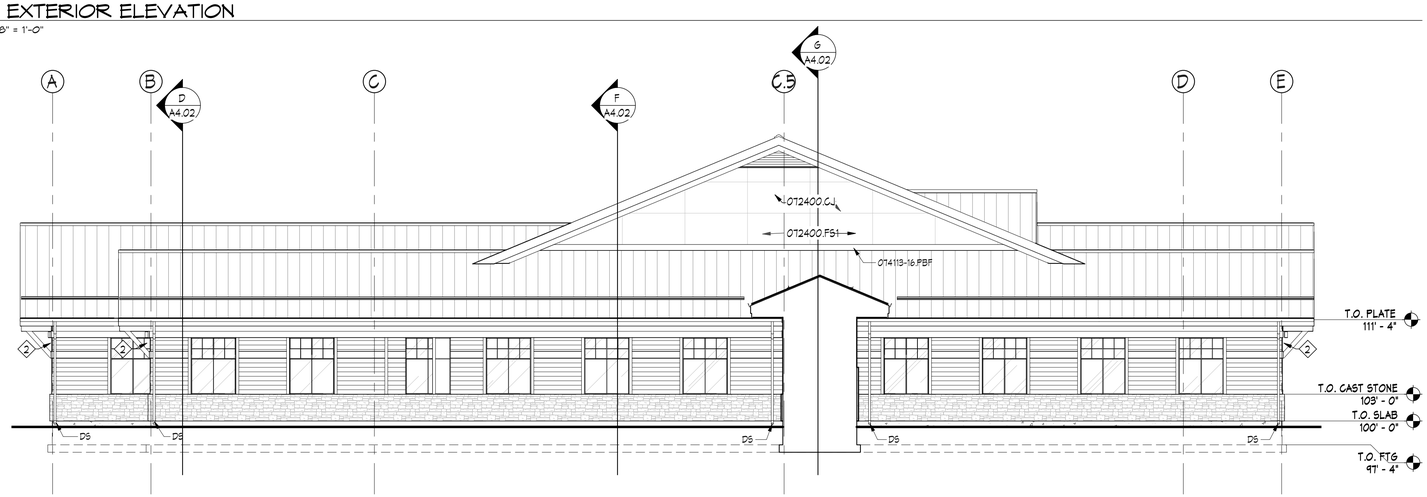

## S1 SOUTH EXTERIOR ELEVATION

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




## E2 EAST EXTERIOR ELEVATION

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




## W1 WEST EXTERIOR ELEVATION

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

## MATERIALS KEYING LEGEND

| Keynote No. | Keynote Description |
|---|---|
| 033000.CF | CONCRETE FOUNDATION |
| 033000.CFG | CONCRETE FOOTING |
| 047200.CSV | CAST STONE VENEER |
| 062013.KB | KNEE BRACE |
| 062013.T20 | 2x10 TRIM |
| 062013.WS | WOOD SIDING |
| 072400.CJ | EIFS CONTROL/AESTHETIC JOINT |
| 072400.FS1 | EXT INSUL AND FINISH SYSTEM OVER POLYSTYRENE BD INSUL |
| 074113-16.MR | PRE-FINISHED METAL ROOFING |
| 074113-16.RV | PRE-FINISHED METAL RIDGE VENT |
| 074113-16.S | CONT PRE-FINISHED METAL SNOW GUARD |
| 076200.F | PREFINISHED METAL FASCIA |
| 076200.G | GUTTER |

## KEY NOTES

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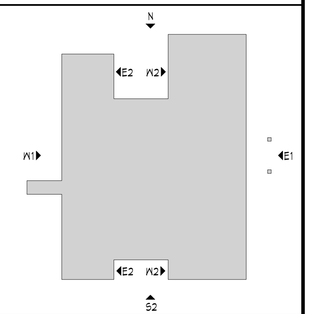
2. LIGHT FIXTURE PER ELECTRICAL

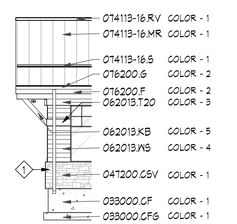
## GENERAL NOTES

1. SEE OTHER 'A' SERIES SHEETS FOR INFORMATION NOT INDICATED HERE
2. SEE MECH, ELECTRICAL, STRUCTURAL, AND OTHER SYSTEMS DRAWINGS FOR INFORMATION NOT INDICATED HERE

## ELEVATION KEY PLAN




## MATERIALS FACE LEGEND




NOTE: ALL COLORS TO MATCH EXIST'G

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# IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500

DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE

3284 INDUSTRIAL LOOP, COEUR D'ALENE, IDAHO 83815

EXTERIOR ELEVATIONS

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | SJR/GMJ |
| DRAWN BY | RF / RM |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | SJR |
| REVISION | RECORD SET |
| SHEET NO. | A3.02 |

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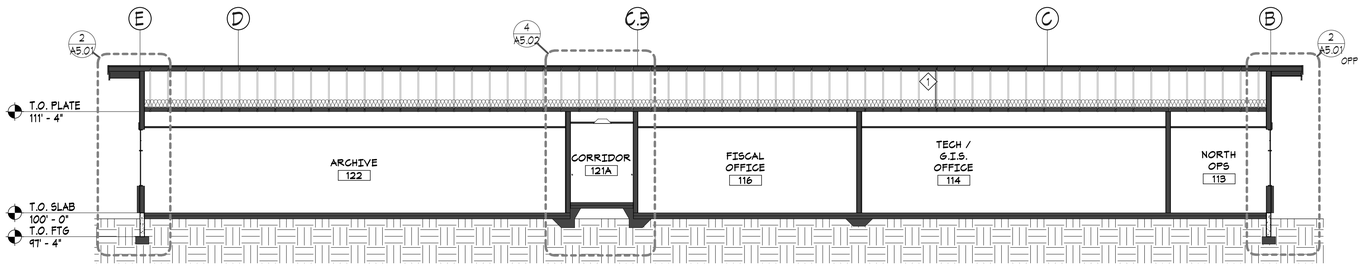
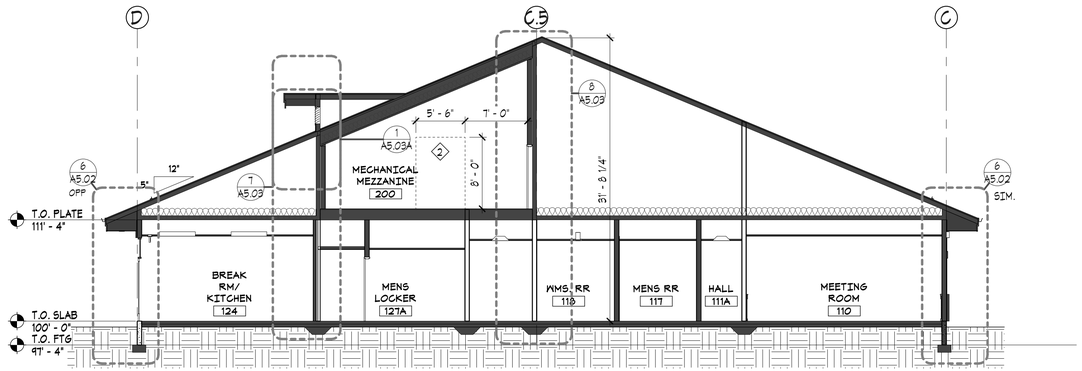
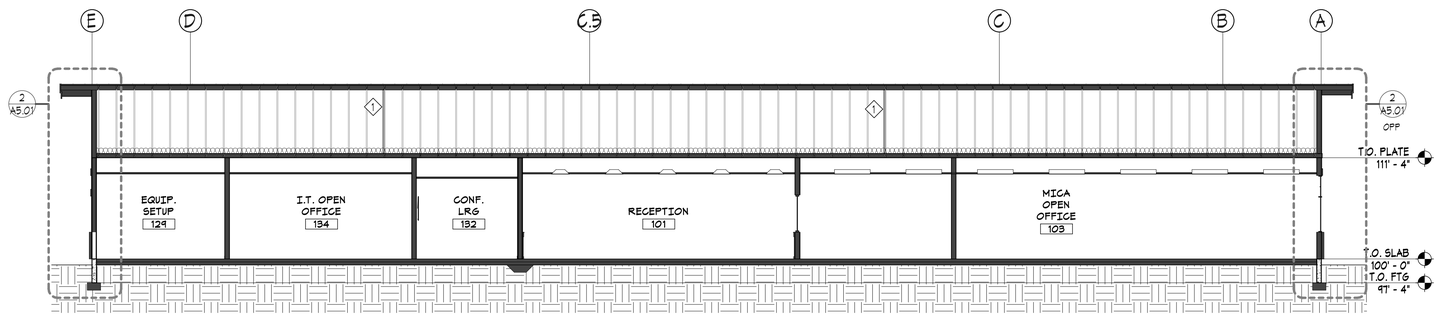



A BUILDING SECTION
SCALE: 1/8" = 1'-0"




B BUILDING SECTION
SCALE: 1/8" = 1'-0"



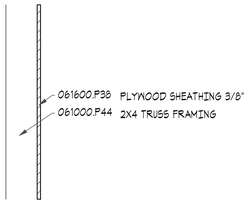

C BUILDING SECTION
SCALE: 1/8" = 1'-0"

# MATERIALS KEYING LEGEND

| Keynote No. | Keynote Description |
|---|---|
| 061000.P44 | 2X4 TRUSS FRAMING |
| 061600.P38 | PLYWOOD SHEATHING 3/8" |

# KEY NOTES

1 DRAFT STOP CONSTRUCTION:




SEE SHEET A1.01 FOR DRAFT STOP LAYOUT

2 MAINTAIN CLEAR SPACE IN THIS AREA SEE KEYNOTE 9 ON SHEET A2.01 FOR ADDITIONAL CRITERIA FOR THIS MEZZANINE SPACE.

# GENERAL NOTES

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IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500
DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE
3284 INDUSTRIAL LOOP, COEUR D'ALENE, IDAHO 83815
BUILDING SECTIONS

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | SJR/GMJ |
| DRAWN BY | RF / RM |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | SJR |
| REVISION | RECORD SET |
| SHEET NO. | A4.01 |

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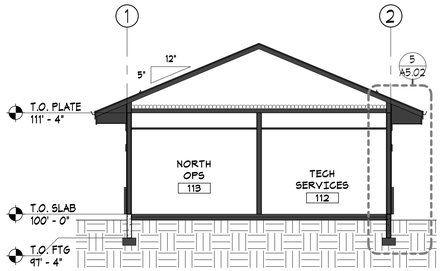
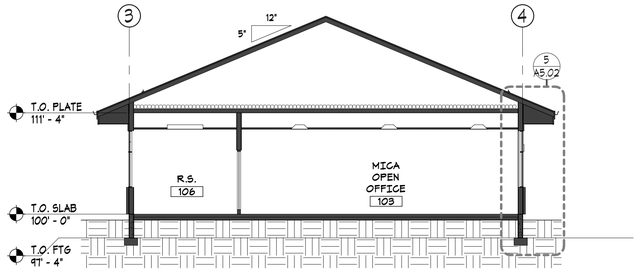



D BUILDING SECTION

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

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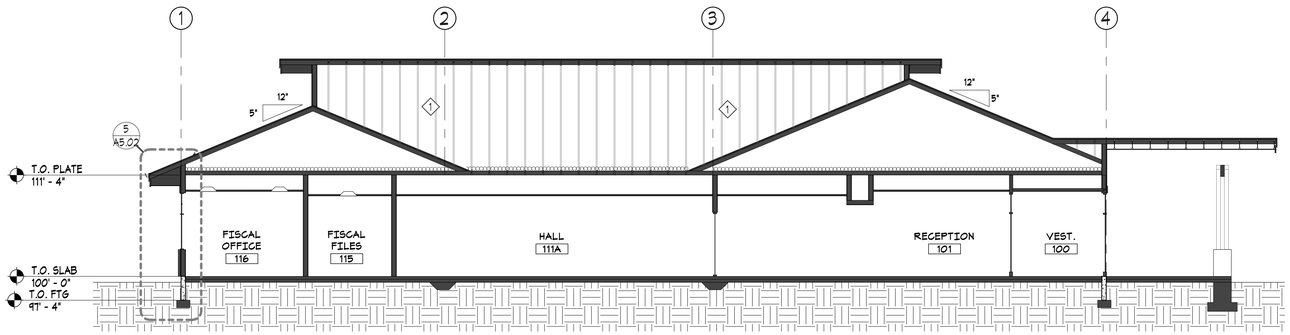
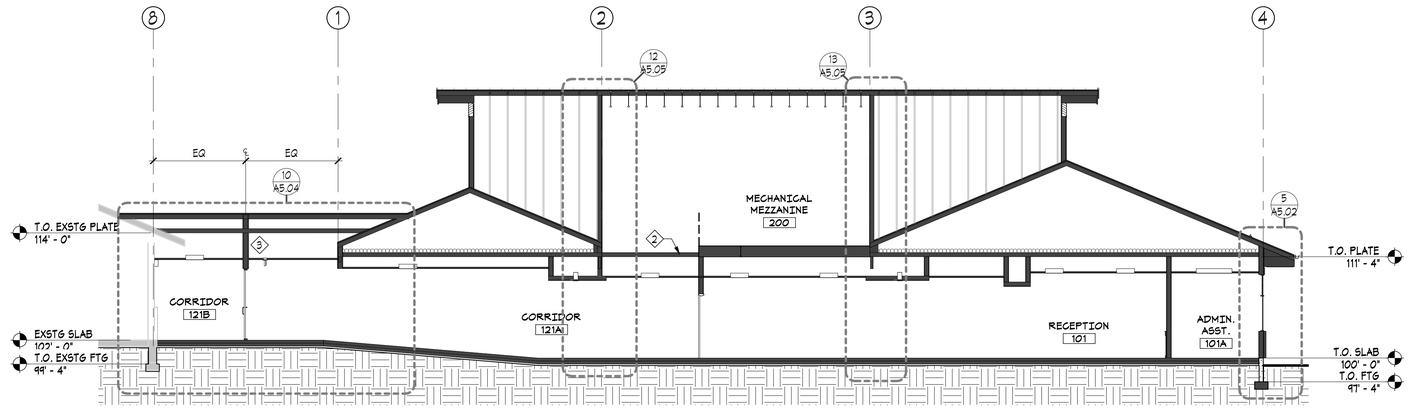
SCALE: 1/8" = 1'-0"




F BUILDING SECTION

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




G BUILDING SECTION

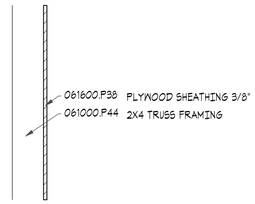
SCALE: 1/8" = 1'-0"

# MATERIALS KEYING LEGEND

| Keynote No. | Keynote Description |
|---|---|
| 061000.P44 | 2X4 TRUSS FRAMING |
| 061600.P38 | PLYWOOD SHEATHING 3/8" |

# KEY NOTES

1 DRAFT STOP CONSTRUCTION:




SEE SHEET A1.01 FOR DRAFTSTOP LAYOUT

2 REMOVABLE UNI-STRUT FOR SUSPENDED CEILING SUPPORT

3 2 HOUR FIRE WALL

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IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500
DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE
3284 INDUSTRIAL LOOP, COEUR D'ALENE, IDAHO 83815
BUILDING SECTIONS

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | SJR/GMJ |
| DRAWN BY | RF / RM |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | SJR |
| REVISION | RECORD SET |
| SHEET NO. | |

A4.02

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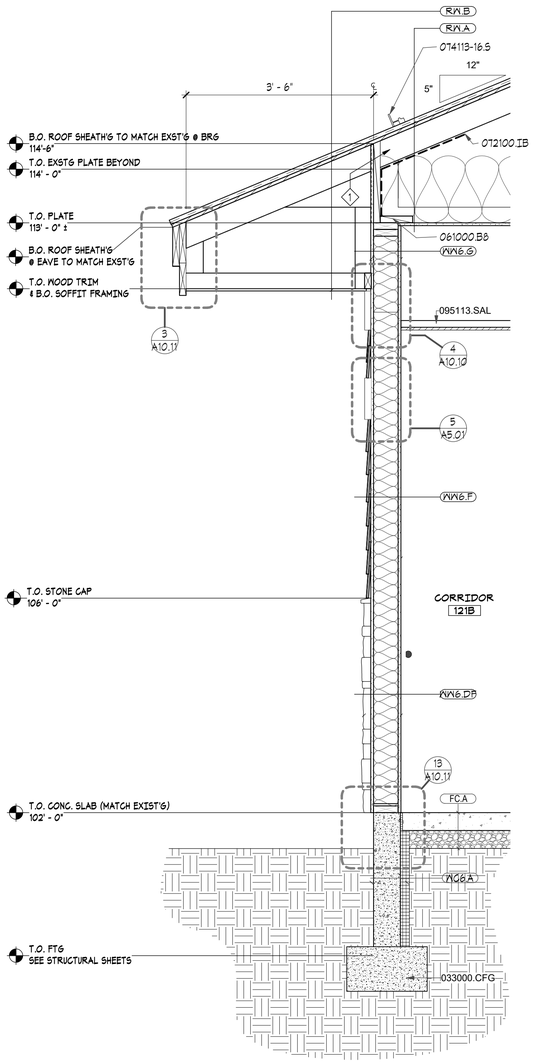
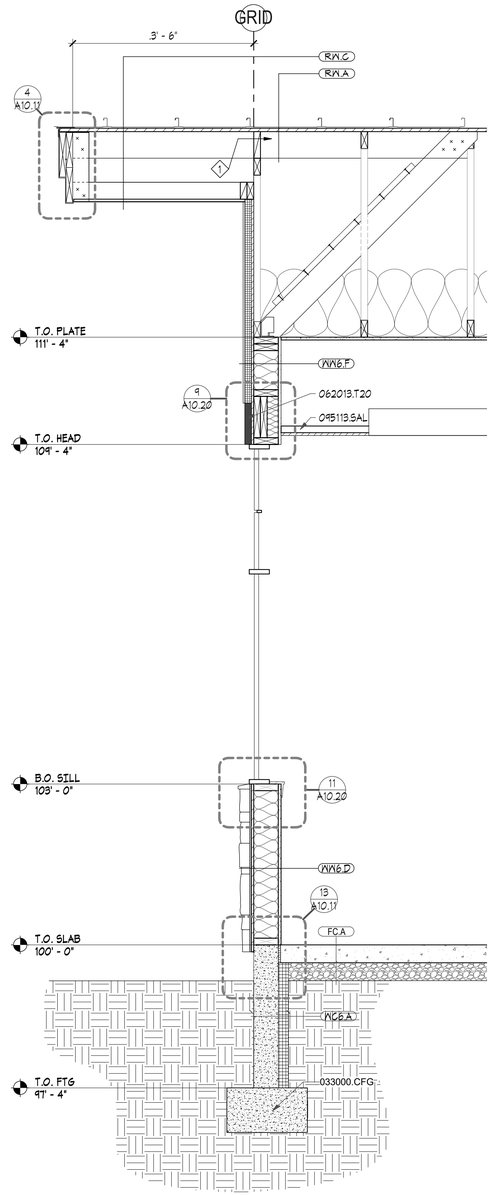



1 WALL SECTION
SCALE: 3/4" = 1'-0"

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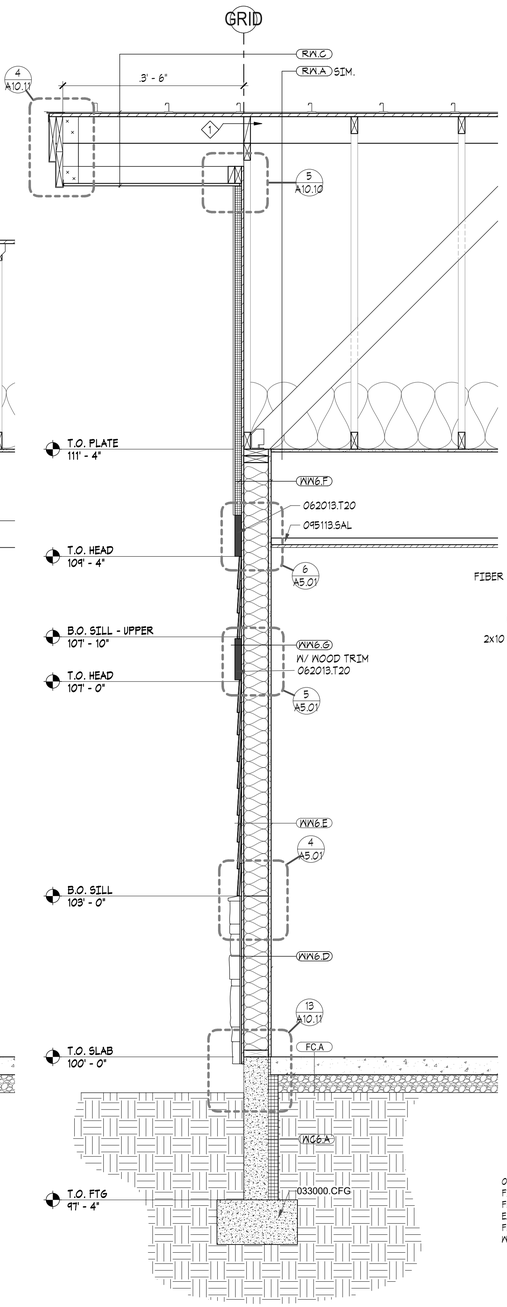


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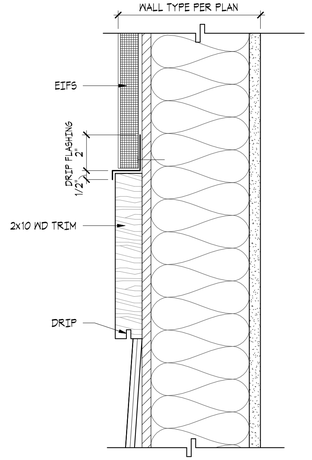
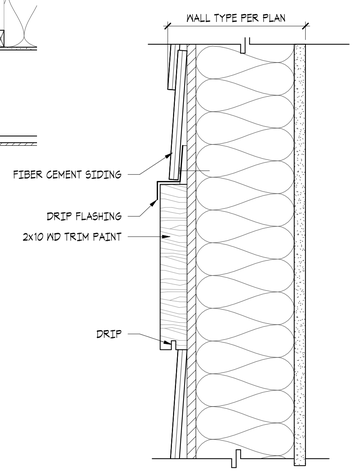
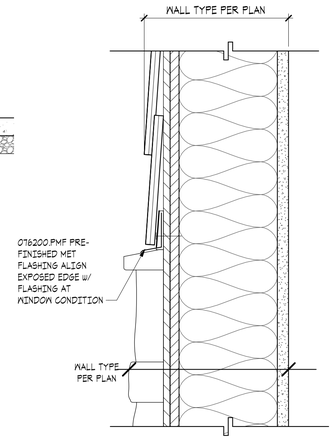
SCALE: 3/4" = 1'-0"




6 EXTERIOR TRIM DETAIL @ EIFS
SCALE: 3" = 1'-0"




5 EXTERIOR TRIM DETAIL
SCALE: 3" = 1'-0"




4 MASONRY SILL DETAIL
SCALE: 3" = 1'-0"

# MATERIALS KEYING LEGEND

| Keynote No. | Keynote Description |
|---|---|
| 033000.CFG | CONCRETE FOOTING |
| 061000.BB | 2x8 BLOCKING |
| 062013.T20 | 2x10 TRIM |
| 072100.IB | INSULATION BAFFLE |
| 074113-16.5 | CONT PRE-FINISHED METAL SNOW GUARD |
| 095113.SAL | SUSPENDED ACOUS LAY-IN GLS SYSTEM. |

# KEY NOTES

1. PROVIDE 3" DIA. HOLES @ 12" O.C. HORIZ BELOW SHEATHING & ABOVE INSUL. IN WOOD BLOCKING FOR VENTILATION. TYPICAL 2 HOLES EACH TRUSS SPACE. PROVIDE INSULATION BAFFLE TO KEEP INSULATION FROM BLOCKING VENTILATION HOLES IN SHEAR PANELS.

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IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500
DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE
3284 INDUSTRIAL LOOP, COEUR D'ALENE, IDAHO 83815

WALL SECTIONS

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | SJR/GMJ |
| DRAWN BY | RF / RM |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | SJR |
| REVISION | RECORD SET |
| SHEET NO. | A5.01 |

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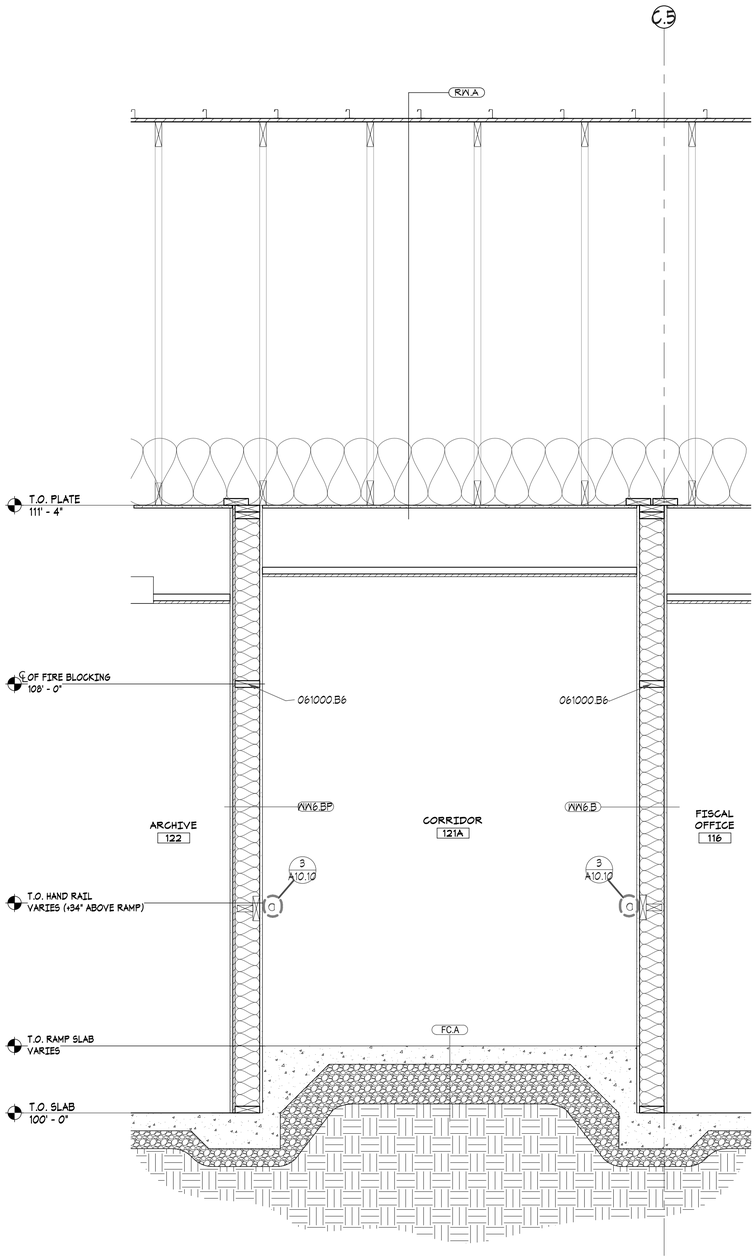
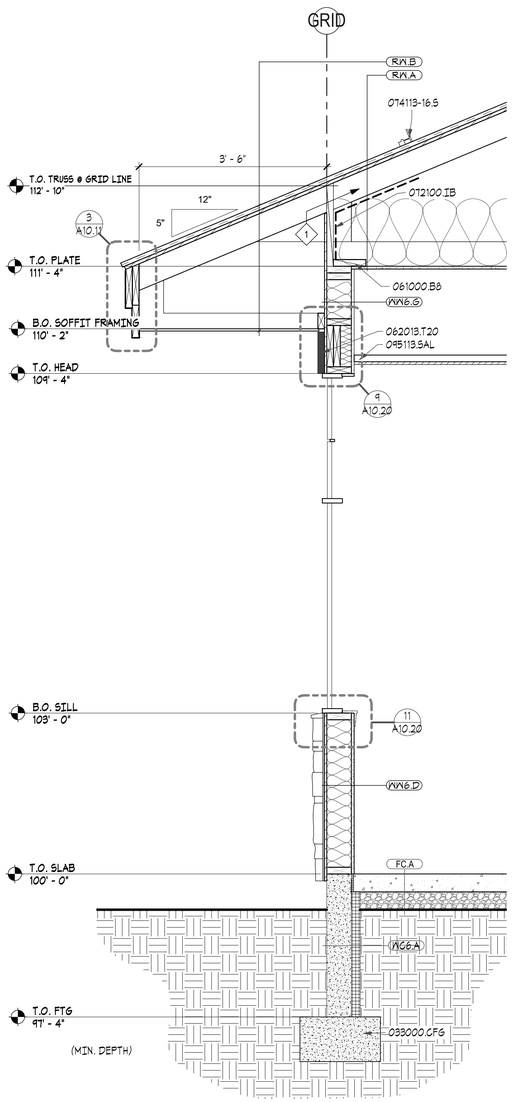


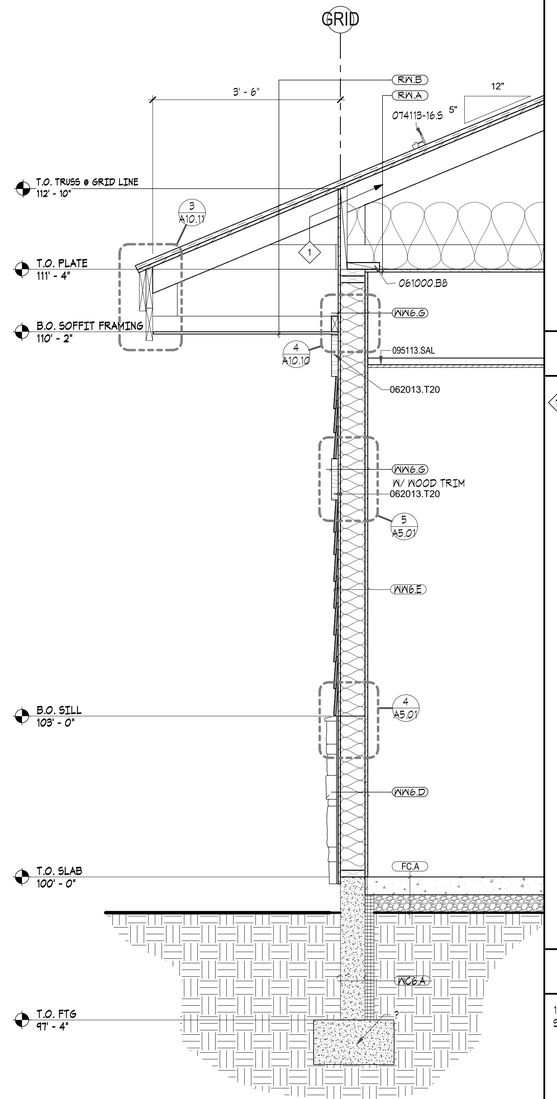

4 CORRIDOR @ INTERIOR

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




5 WALL SECTION

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




6 WALL SECTION

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

## MATERIALS KEYING LEGEND

| Keynote No. | Keynote Description |
|---|---|
| 033000.CF6 | CONCRETE FOOTING |
| 061000.B6 | 2x6 BLOCKING |
| 061000.B8 | 2x8 BLOCKING |
| 062013.T20 | 2x10 TRIM |
| 072100.IB | INSULATION BAFFLE |
| 074113-16.5 | CONT PRE-FINISHED METAL SNOW GUARD |
| 095113.SAL | SUSPENDED ACOUS LAY-IN CLG SYSTEM |

## KEY NOTES

1. PROVIDE 3" DIA. HOLES @ 12" O.C. HORIZ BELOW SHEATHING & ABOVE INSUL. IN WOOD BLOCKING FOR VENTILATION. TYPICAL 2 HOLES EACH TRUSS SPACE. PROVIDE INSULATION BAFFLE TO KEEP INSULATION FROM BLOCKING VENTILATION HOLES IN SHEAR PANELS.

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DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE
3284 INDUSTRIAL LOOP, COEUR D'ALENE, IDAHO 83815
WALL SECTIONS

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | SJR/GMJ |
| DRAWN BY | RF / RM |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | SJR |
| REVISION | RECORD SET |
| SHEET NO. | A5.02 |

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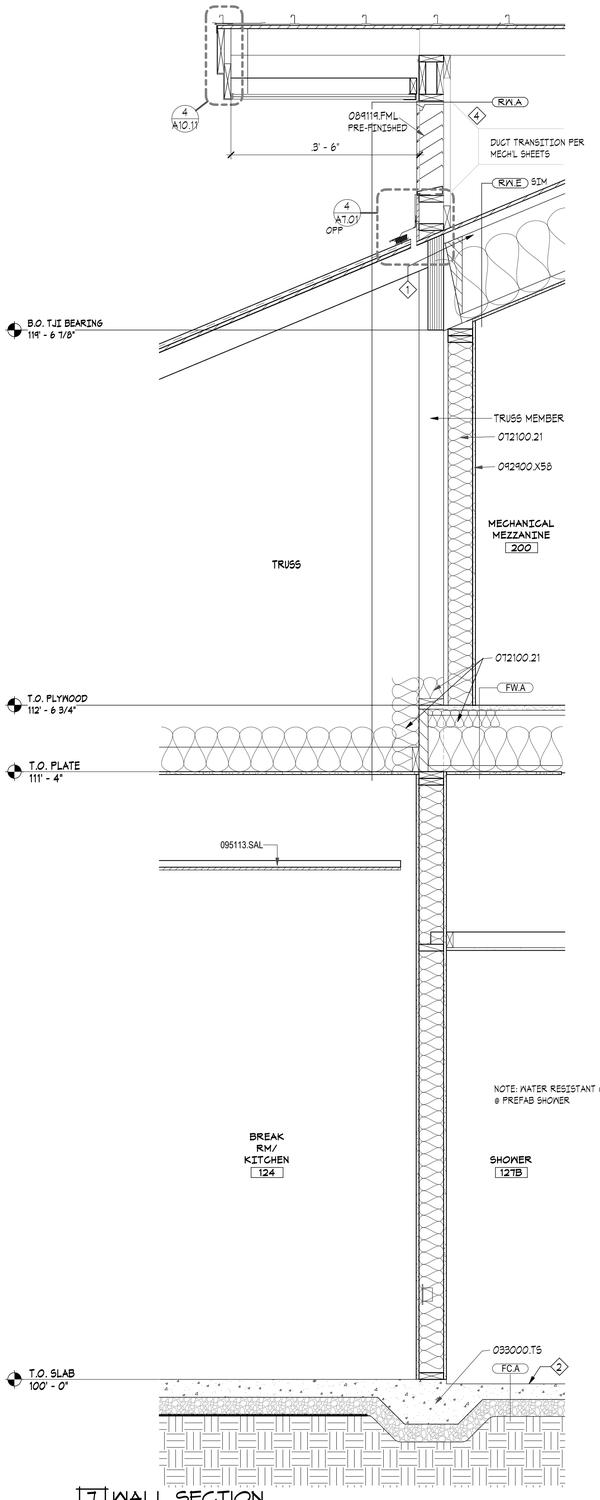
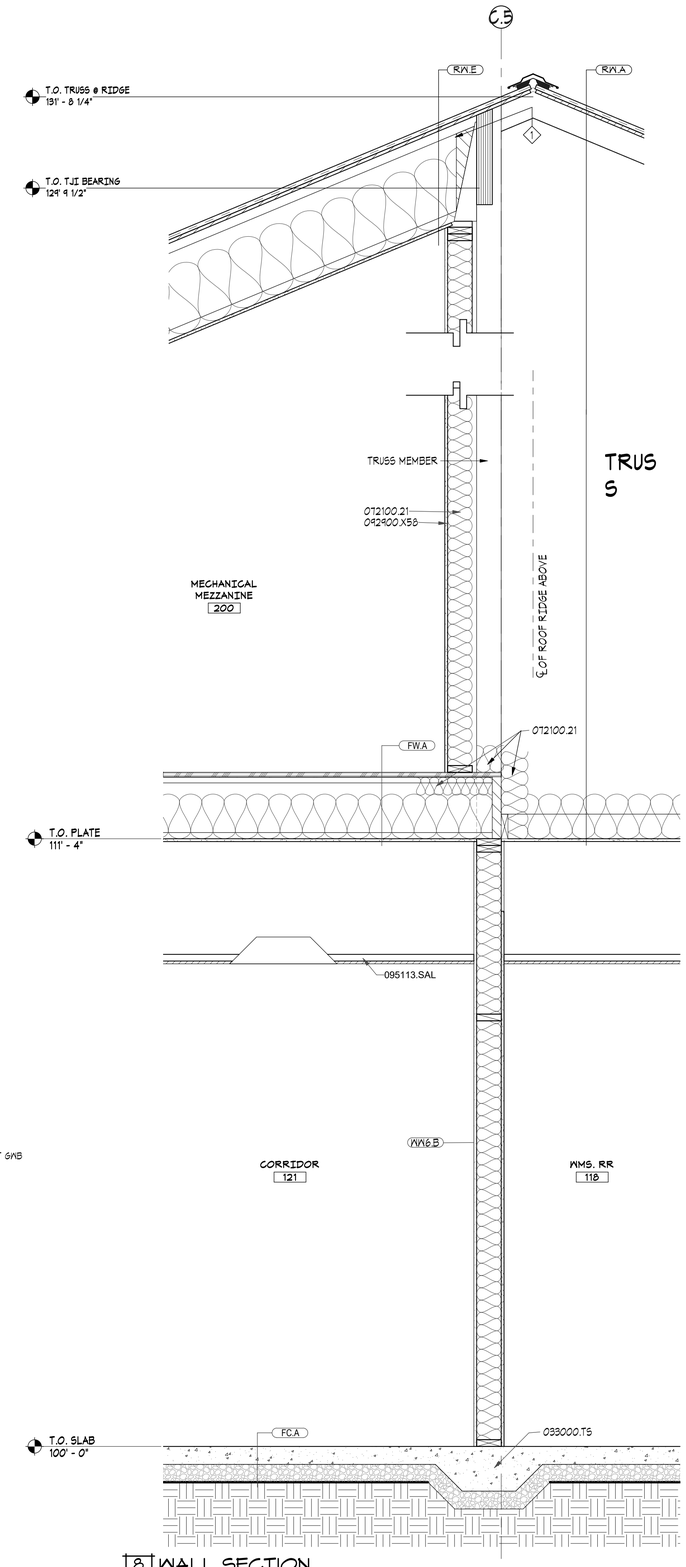
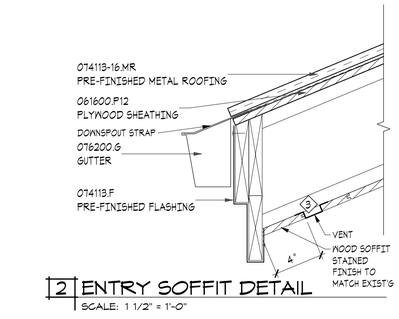


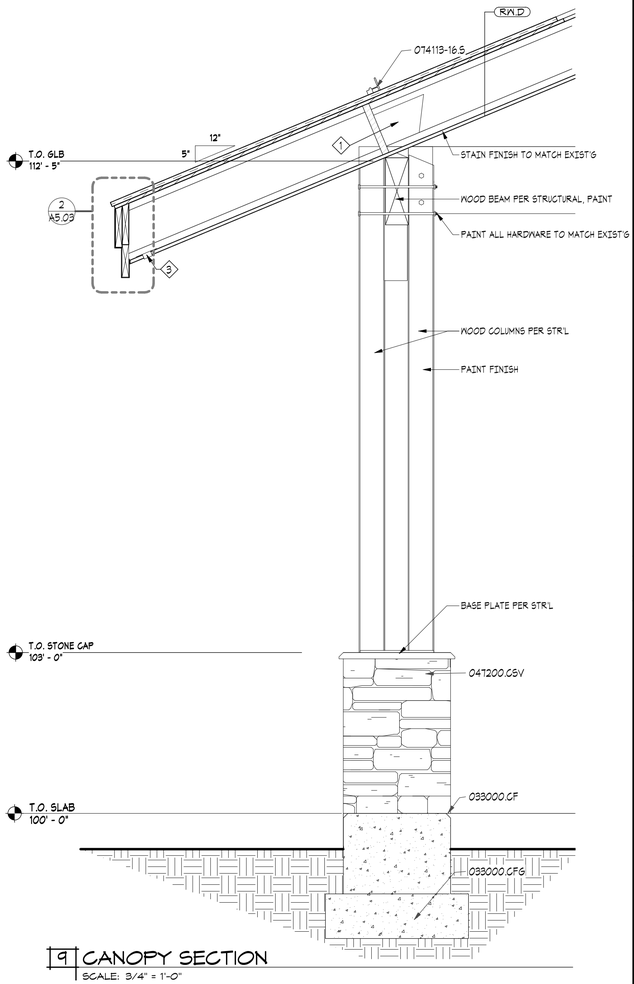

7 WALL SECTION
SCALE: 3/4" = 1'-0"




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




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




9 CANOPY SECTION
SCALE: 3/4" = 1'-0"

## MATERIALS KEYING LEGEND

| Keynote No. | Keynote Description |
|---|---|
| 033000.CF | CONCRETE FOUNDATION |
| 033000.CF6 | CONCRETE FOOTING |
| 033000.T5 | THICKENED SLAB |
| 047200.G5V | CAST STONE VENEER |
| 061600.P12 | PLYWOOD SHEATHING |
| 072100.21 | R-21 BATT INSULATION |
| 074113-16.MR | PRE-FINISHED METAL ROOFING |
| 074113-16.S | CONT PRE-FINISHED METAL SNOW GUARD |
| 074113.F | PRE-FINISHED FLASHING |
| 076200.G | GUTTER |
| 084114.FML | EXTRUDED ALUMINUM LOUVER |
| 092900.X58 | 5/8" TYPE 'X' GNB |
| 095113.SAL | SUSPENDED ACOUS LAY-IN CLG SYSTEM |

## KEY NOTES

1. PROVIDE 3" DIA. HOLES @ 12" O.C. HORIZ BELOW SHEATHING & ABOVE INSUL. IN WOOD BLOCKING FOR VENTILATION. TYPICAL 2 HOLES EACH TRUSS SPACE. PROVIDE INSULATION BAFFLE TO KEEP INSULATION FROM BLOCKING VENTILATION HOLES IN SHEAR PANELS.
2. RECESS SLAB FOR PREFAB SHOWER. SEE STRUCTURAL SHEETS
3. CONTINUOUS ALUMINUM VENT
4. CONTRACTOR & TRUSS MRF TO COORDINATE OVERFRAMING CONFIGURATION W/ LOUVER OPENING & DUCT LAYOUT REQUIREMENTS

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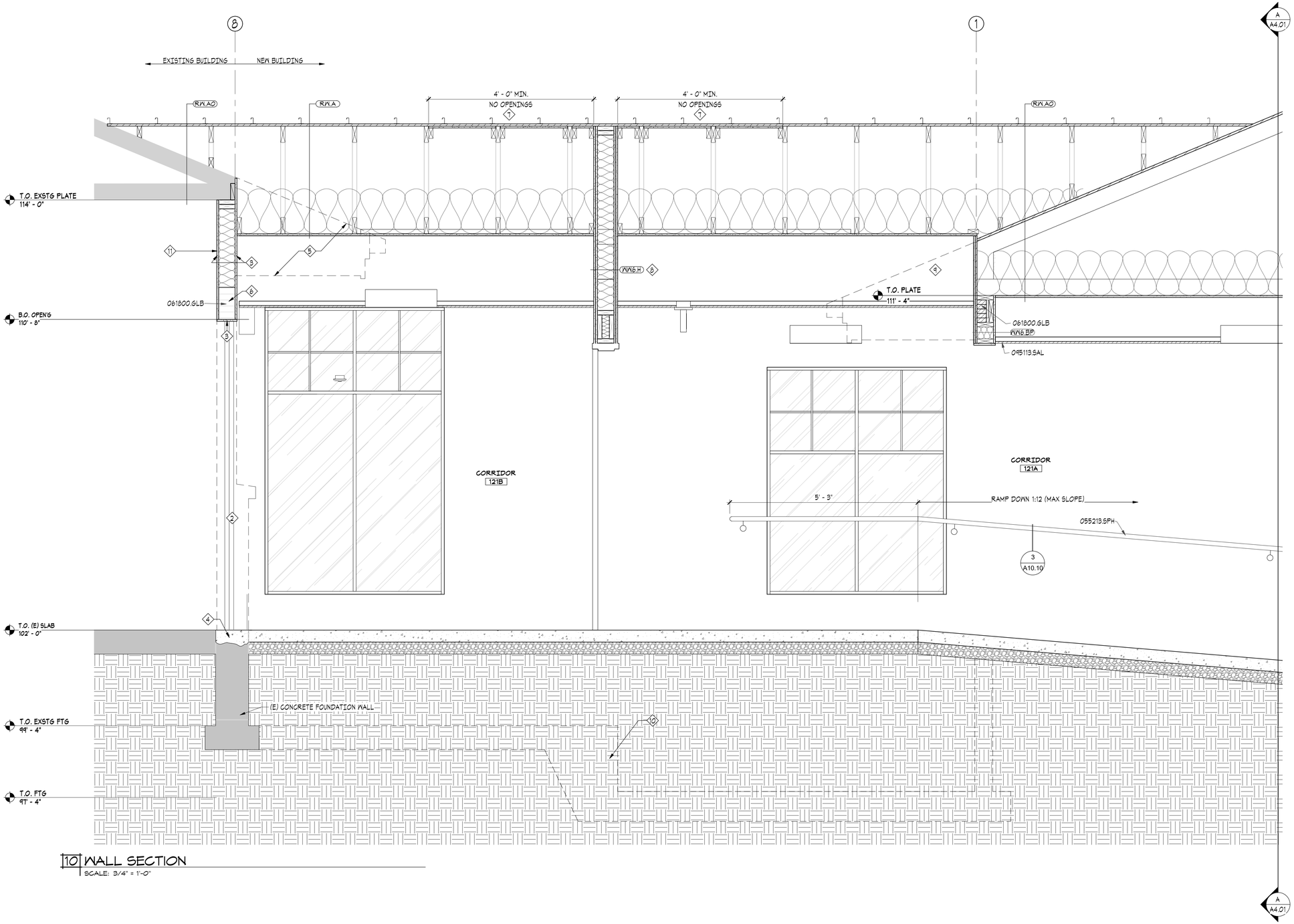
DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE
3284 INDUSTRIAL LOOP, COEUR D'ALENE, IDAHO 83815
WALL SECTIONS

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | SJR/GMJ |
| DRAWN BY | RF / RM |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | SJR |
| REVISION | RECORD SET |
| SHEET NO. | A5.03 |




## 10 WALL SECTION

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

# MATERIALS KEYING LEGEND

| Keynote No. | Keynote Description |
|---|---|
| 055213.5PH | STEEL PIPE HANDRAIL 1 1/4" STD. DIA. |
| 061800.GLB | GLU-LAMINATED BEAM |
| 095113.5AL | SUSPENDED ACOUS LAY-IN GLG SYSTEM |

# KEY NOTES

1. PROVIDE 3" DIA. HOLES @ 12" O.C. HORIZ BELOW SHEATHING & ABOVE INSUL. IN WOOD BLOCKING FOR VENTILATION. TYPICAL 2 HOLES EACH TRUSS SPACE. PROVIDE INSULATION BAFFLE TO KEEP INSULATION FROM BLOCKING VENTILATION HOLES IN SHEAR PANELS.
2. REMOVE PORTION OF (E) WALL CONSTRUCTION AS REQ'D FOR NEW OPENING & NEW WORK. PROVIDE NEW BEAM/COLUMNS PER STRUCTURAL DRAWINGS.
3. PROVIDE NEW FINISHES ON (E) FRAMING.
4. REMOVE TOP 6" OF (E) CONC FOUNDATION WALL TO ACCOMODATE NEW CONCRETE SLAB.
5. REMOVE PORTION OF (E) ROOF OVERHANG, INCLUDING FASCIA AND SOFFIT AS SHOWN.
6. NEW HEADER PER STR'L DRAWINGS.
7. PROVIDE 042900.X58 5/8" TYPE 'X' GNB DIRECTLY BENEATH THE UNDERSIDE OF THE ROOF SHEATHING, SUPPORTED BY 2X4 WOOD LEDGERS ATTACHED TO THE SIDES OF THE ROOF TRUSSES FOR A MINIMUM DISTANCE OF 4 FEET ON BOTH SIDES OF THE FIRE WALL PER IBC 2012 SECTION 706.6, EXCEPTION 4. THIS PROTECTION SHALL EXTEND TO THE INSIDE FACE OF THE FASCIA.
8. 2 HR FIREWALL SHALL TERMINATE AT THE INTERIOR SURFACE OF THE EXTERIOR SHEATHING PER IBC 2012 SECTION 706.5, EXCEPTION 1. SEE DETAIL 6.001
9. DASHED LINE REPRESENTS ROOF OVERHANG BEYOND, TRUSSES OVER CORRIDOR 121 SHALL NOT HAVE OVERHANGS.
10. STEEPED CONCRETE FOOTING BEYOND
11. PAINT & BLEND IN WITH EXIST ACCENT PAINT COLOR

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# IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500

DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE

3284 INDUSTRIAL LOOP, COEUR D'ALENE, IDAHO 83815

WALL SECTIONS

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | SJR/GMJ |
| DRAWN BY | RF / RM |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | SJR |
| REVISION | RECORD SET |
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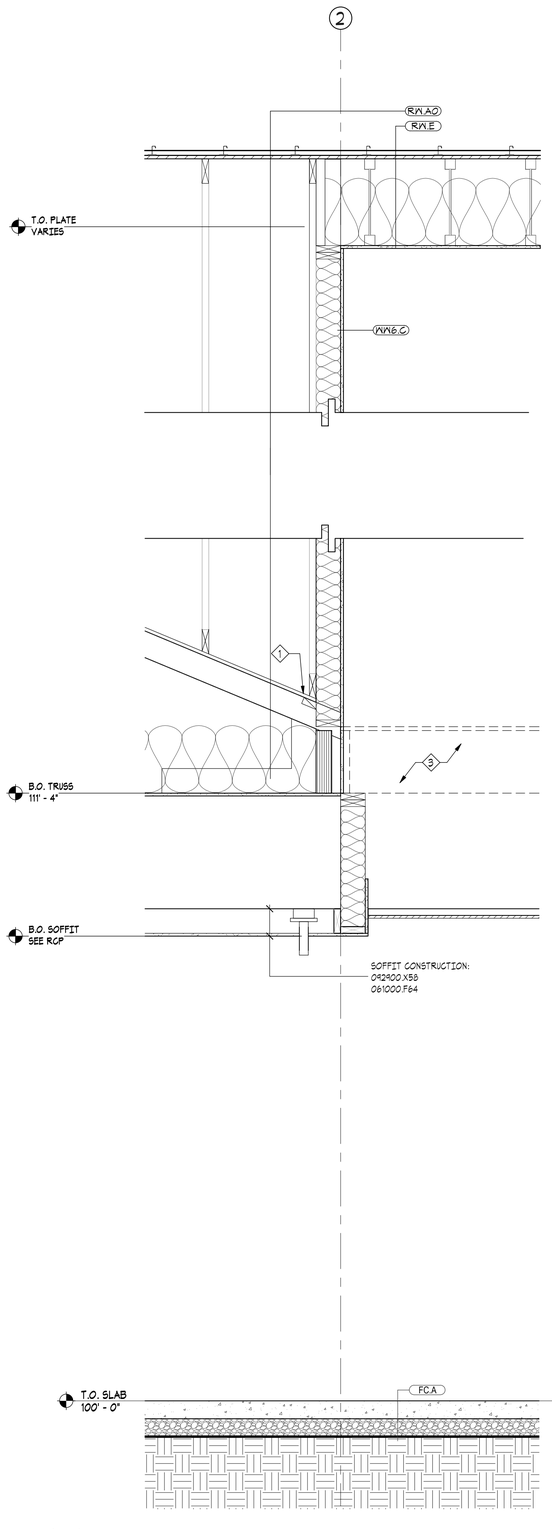
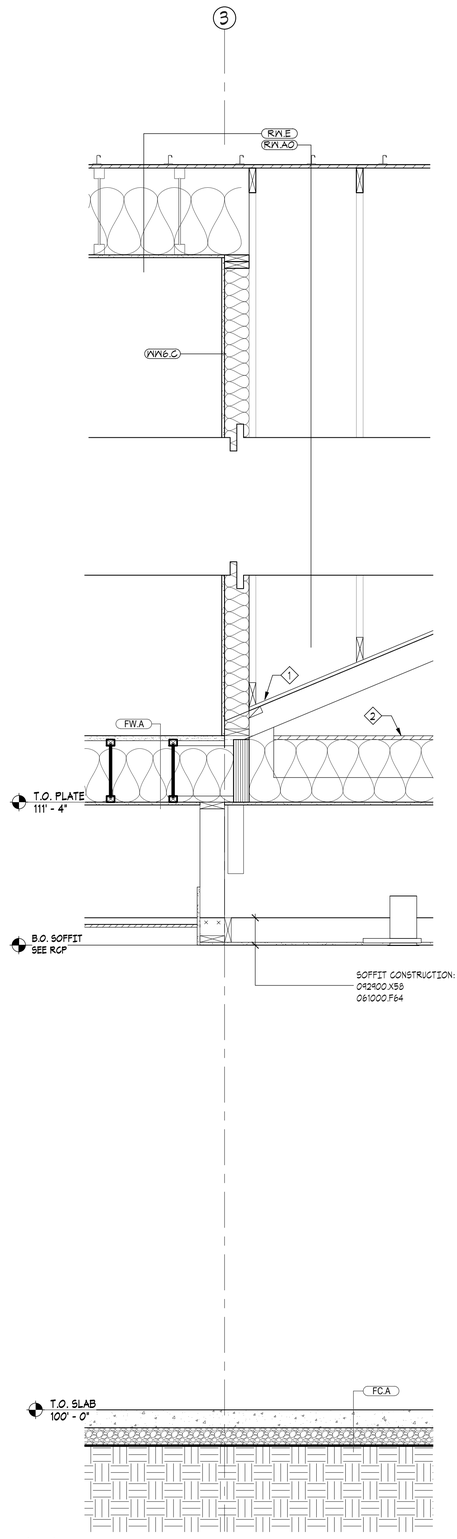



12 WALL SECTION

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




13 WALL SECTION

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

# MATERIALS KEYING LEGEND

| Keynote No. | Keynote Description |
|---|---|

# KEY NOTES

1. ROOF SHEATHING AT DOOR 200B , 200 C SHALL BE OMITTED AT TRUSS SPACE CENTERED ON DOOR FROM GRID TO RIDGE.
2. PROVIDE 8' X 8' PLYWOOD PLATFORM CENTERED ON DOOR 200B & 200C
3. MEZZANINE FLOOR CONSTRUCTION IN FOREGROUND

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DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE
3284 INDUSTRIAL LOOP, COEUR D'ALENE, IDAHO 83815

WALL SECTIONS

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | SJR/GMJ |
| DRAWN BY | RF / RM |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | SJR |
| REVISION | RECORD SET |
| SHEET NO. | |

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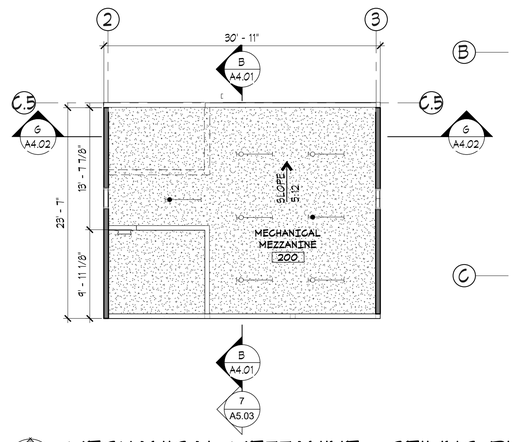
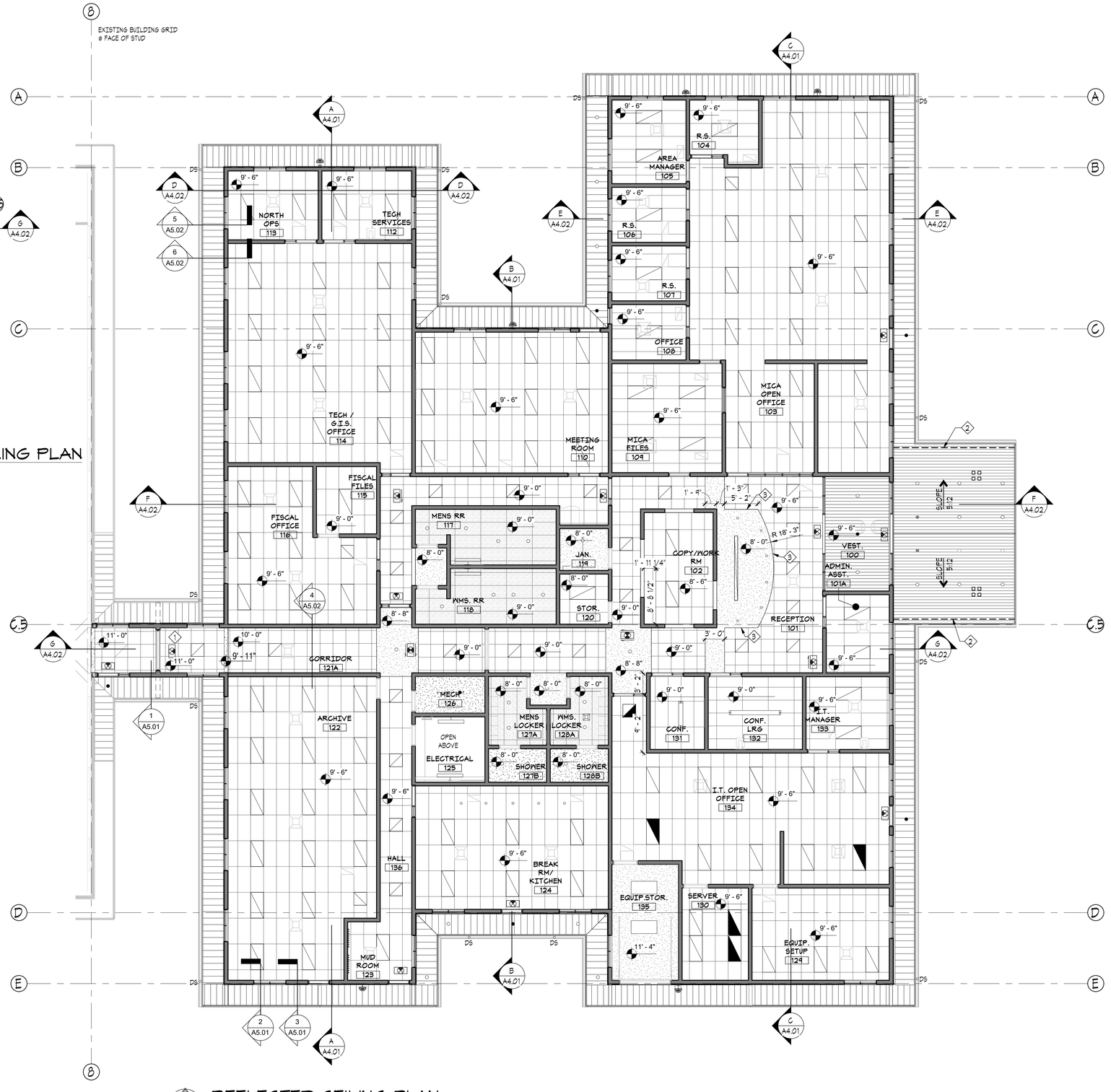



MECHANICAL MEZZANINE - CEILING PLAN

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




REFLECTED CEILING PLAN

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

## MATERIALS KEYING LEGEND

| Keynote No. | Keynote Description |
|---|---|
| 062013.T61 | 1x8 T&G PLANK |
| 074113.MSF | PRE-FINISHED METAL SOFFIT |
| 076200.D | DOWNSPOUT |
| 076200.F | PREFINISHED METAL FASCIA |
| 076200.G | GUTTER |

## KEY NOTES

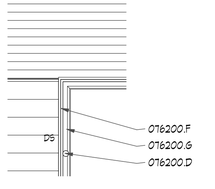
1. FIRE WALL SHALL BE CENTERED BETWEEN EXISTING BUILDING GRID B & NEW ADDITION GRID 1
2. CONT. ALUMINUM VENT
3. ACCENT PAINT COLOR @ FACE OF SOFFIT

## GENERAL NOTES

1. SEE OTHER 'A6' SERIES SHEETS FOR INFORMATION WHERE APPLICABLE
2. SEE MECH, ELECTRICAL, STRUCTURAL, AND OTHER SYSTEMSDRAWINGS FOR INFORMATION NOT INDICATED ON THIS SHEET
3. STRUCTURE, LIGHT FIXTURES AND MECHANICAL DIFFUSERS, DUCTS, AND EQUIPMENT LOCATIONS ARE SHOWN FOR ILLUSTRATIVE PURPOSES. SEE STRUCTURAL, ELECTRICAL, MECHANICAL, AND OTHER DRAWINGS FOR MORE SPECIFIC INFORMATION.
4. SEE DIVISION 9 DETAILS FOR TYPICAL TREATMENT OF WALL TO DECK CONNECTIONS AT TOP OF WALLCONDITIONS.
5. ALL NON-BEARING WALLS TO EXTEND TO THE BOTTOM OF THE STRUCTURE ABOVE SHALL BE BRACED AT MAXIMUM 8'-0" O.C. BY INTERSECTING WALLS OR BY SUPPLEMENTAL DIAGONAL BRACING. WHERE OTHER REQUIREMENTS FOR BRACING ARE INDICATED IN THE DRAWINGS, SPECIFICATIONS, OR CODES THE MOST RESTRICTIVE REQUIREMENTS SHALL APPLY.
6. GENERAL CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS IN AREA OF AND AS REQUIRED FOR COORDINATION OF WORK.
7. PAINT ALL EXPOSED DECKING, STRUCTURE, DUCTWORK, CONDUITS, ETC .
8. ALL FIRE WALLS, FIRE BARRIER, CORRIDOR WALLS, SHAFT WALLS AND OTHER FIRE RATED ASSEMBLIES SHALL EXTEND TO THE BOTTOM OF STRUCTURE UNLESS OTHERWISE NOTED.

## RCP LEGEND

- 092900.X58 5/8" TYPE 'X' GMB CEILNG/SOFFIT
- 095113.ATG ACOUSTICAL LAY-IN CEILING SYSTEM 2X4 OR 2X2 (AS SHOWN)
- 195113.AVF 2X4 LAY-IN CEILING SYSTEM VINYL FACED
- 074293.MS PRE-FINISHED VENTED METAL SOFFIT PANEL
- 9' - 0" CEILING HEIGHT FROM 100'-0" FLOOR
- LUMINAIRE, SURFACE
- LUMINAIRE, RECESSED
- LUMINAIRE, EMERGENCY
- STRIP, SURFACE OR PENDANT AS INDICATED IN LUMINAIRE SCHEDULE
- LUMINAIRE, CEILING MOUNTED
- CEILING DUCT DIFF/GRILLE

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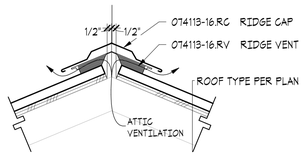
- Landscape Architect: ARCHITECTS WEST 210 EAST LAKESIDE AVENUE COEUR D'ALENE, ID 83814 208.667.9402
- Structural Engineer: DCI ENGINEERS 707 WEST 2ND AVENUE SPOKANE, WA 99201 509.445.4448
- Mechanical Engineer: KARTCHNER ENGINEERING 6814 SOUTH JACKSON RIDGE LANE GREENACRES, WA 99016 509.922.0383
- Electrical Engineer: TRINDERA ENGINEERING 1875 N. LAKEWOOD DRIVE STE. 201 COEUR D'ALENE, ID 208.620.3314
- Surveyor: J-U-B ENGINEERS, INC. 7825 MEADOWLARK WAY COEUR D'ALENE IDAHO, 83815 208.762.8787

# IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500
## DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE
## 3284 INDUSTRIAL LOOP, COEUR D'ALENE, IDAHO 83815

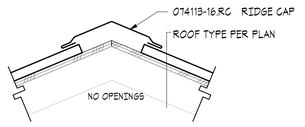
REFLECTED CEILING PLAN

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | SJR/GMJ |
| DRAWN BY | RF / RM |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | SJR |
| REVISION | RECORD SET |
| SHEET NO. | A6.01 |




NOTE: NET FREE VENT AREA SHALL BE 185I PER LINEAL FOOT, MIN.

## 1 RIDGE VENT DETAIL
SCALE: 1 1/2" = 1'-0"




## 2 RIDGE DETAIL
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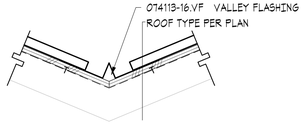
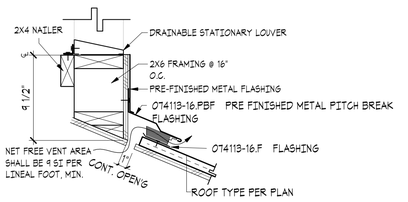
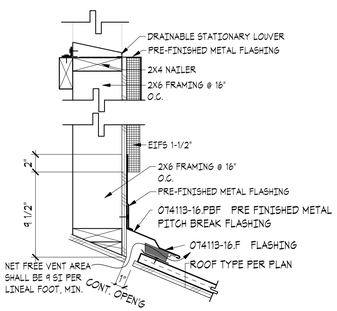


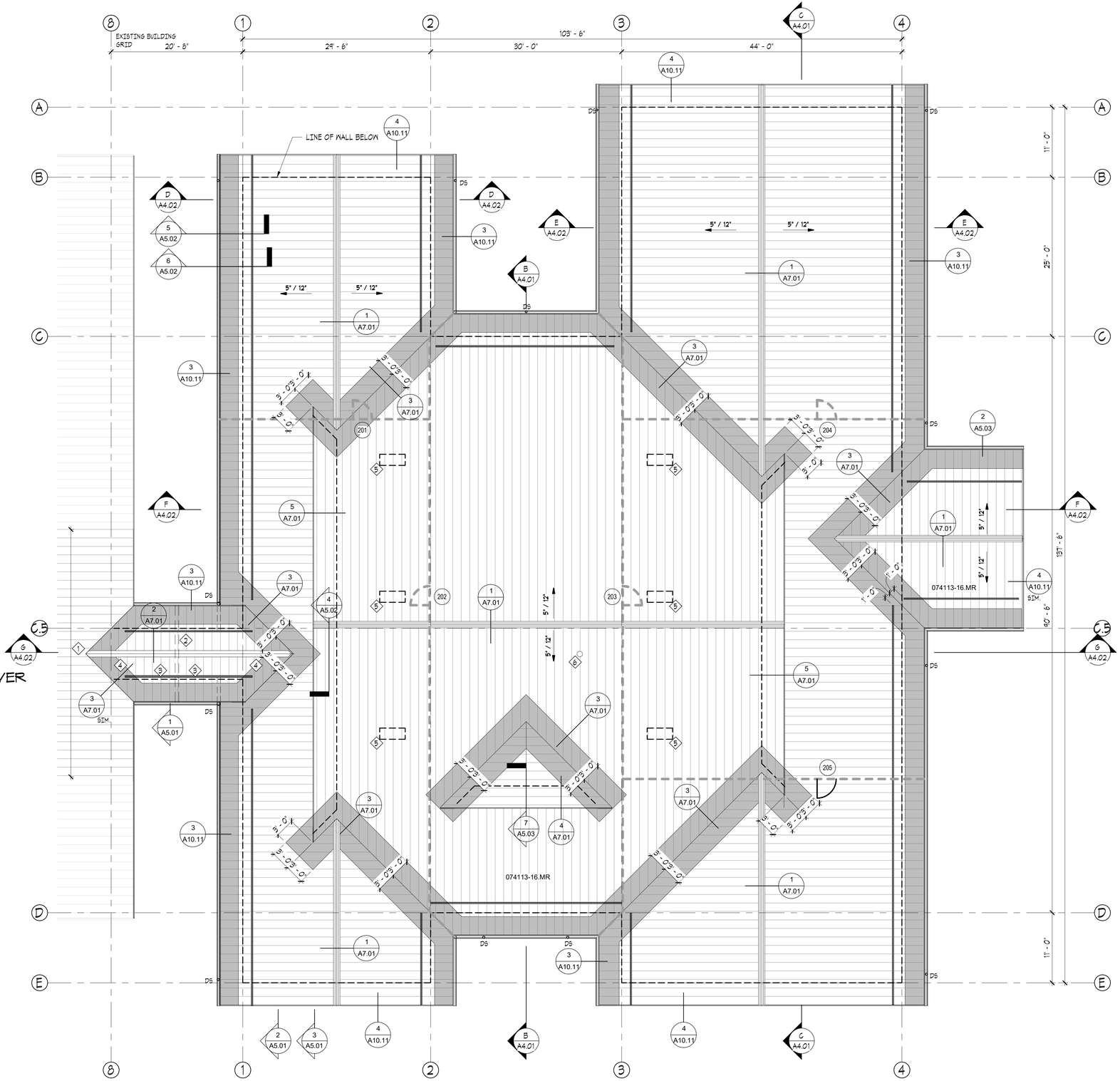

## 3 VALLEY DETAIL
SCALE: 1 1/2" = 1'-0"




## 4 ROOF TRANSITION DETAIL @ LOUVER
SCALE: 1 1/2" = 1'-0"




## 5 ROOF TRANSITION DETAIL
SCALE: 1 1/2" = 1'-0"




## ROOF PLAN
SCALE: 1/8" = 1'-0"

# MATERIALS KEYING LEGEND

| Keynote No. | Keynote Description |
|---|---|
| | |
| 074113-16.MR | PRE-FINISHED METAL ROOFING |
| 074113-16.S | CONT PRE-FINISHED METAL SNOW GUARD |
| 074113-16.SU | SELF ADHERING SHEET UNDERLAYMENT |
| 074113.RV | |
| 076200.D | DOWNSPOUT |
| 076200.G | GUTTER |

# KEY NOTES

1. CAREFULLY REMOVE A PORTION OF METAL ROOFING SYSTEM AS REQUIRED TO INSTALL NEW WORK. SALVAGE (E) METAL PANELS FOR RE-USE
2. LINE OF 2-HR FIREWALL BELOW
3. NO OPENINGS ALLOWED IN ROOF WITHIN 5' OF NEW FIREWALL
4. PROVIDE 22" WIDE X FULL HEIGHT ACCESS HOLE FROM ATTIC SPACE TO ATTIC SPACE
5. PROVIDE 21"W X 48"L HOLES THROUGH SHEATHING BETWEEN ATTIC SPACES
6. WATER HEATER GAS VENT

# GENERAL NOTES

1. SEE OTHER 'A1' SERIES SHEETS FOR ADDITIONAL INFORMATION WHERE APPLICABLE
2. SEE MECH, ELECTRICAL, STRUCTURAL, AND OTHER SYSTEMS DRAWINGS FOR INFORMATION NOT INDICATED ON THIS SHEET.
3. GENERAL CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AND AS REQUIRED FOR COORDINATION OF WORK.
4. SEE MECHANICAL AND PLUMBING DRAWINGS FOR ROOF PENETRATIONS NOT SHOWN HERE.

# ROOF LEGEND

074113-16.SU
SELF ADHERING SHEET UNDERLAYMENT. EXTEND FROM EAVE TO 3'-0" INSIDE EXTERIOR WALL OF BUILDING. AT VALLEYS INSTALL A 72" WIDE STRIP CENTERED ON THE VALLEY FOR THE LENGTH OF THE VALLEY.

074113-16.MR
PRE FINISHED METAL ROOFING TO MATCH EXISTING
074113.RV
RIDGE VENT. SEE DETAIL 1 / A7.01

RIDGE FLASHING / NO OPENING THROUGH ROOF AT THIS LOCATION. SEE DETAIL 2/A7.01

076200.G
PRE-FIN MTL. GUTTER
076200.D DOWNSPOUT

EXHAUST FANS, VENTS, AND OTHER PENATRATIONS. APROXIMATE LOCATIONS AND QUANTITIES SHOWN HERE. SEE MECHANICAL SHEETS FOR ADDITIONAL INFORMATION

074113-16.S
SNOW GUARD

LINE OF EXTERIOR WALL BELOW

DRAFT STOP

3/8" PLYWOOD ON 2X4 TRUSS FRAMING @ 24" O.C.

PROVIDE ACCESS DOORS 201 THROUGH 204 AS SHOWN. DRAFT STOP SHALL EXTEND TO THE OUTER EDGE OF TOP CHORD TO OUTER EDGE OF BOTTOM CHORD TO OUTER EDGE OF EAVES.

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208.762.8787

# IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500
## DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE
## 3284 INDUSTRIAL LOOP, COEUR D'ALENE, IDAHO 83815

ROOF PLAN

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | SJR/GMJ |
| DRAWN BY | RF / RM |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | SJR |
| REVISION | RECORD SET |
| SHEET NO. | A7.01 |

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## CABINET IDENTIFICATION SYSTEM

CABINET NUMBERING
- GROUP PER WESTMARK
- FRONT TYPE PER WESTMARK
- FUNCTION PER WESTMARK
- ADD-ONS PER ARCHITECTS WEST SCHEDULE BELOW

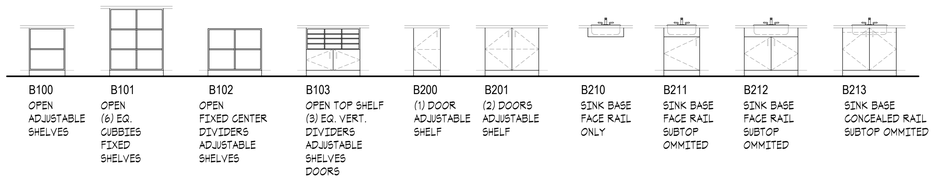
T 100 - X

CABINET DIMENSIONS 36 84 24
- WIDTH
- HEIGHT
- DEPTH

| | |
|---|---|
| A | |
| B | INTEGRAL P.LAM BASE |
| C | |
| D | DOUBLE FACED OPEN (BACK DIVIDER) |
| E | |
| F | |
| G | GLASS DOOR |
| H | COAT HOOK |
| I | NOT USED |
| J | LIPPED SHELF |
| K | VENTED SHELF |
| L | VENTED DOOR |
| M | MIRROR |
| N | |
| O | NOT USED |
| P | PULL BOARD |
| Q | |
| R | CLOTHES ROD |
| S | SLOPING SHELF |
| T | |
| U | VERTICAL DIVIDER |
| V | LIGHT VALANCE |
| W | LOCKING WHEELS |
| X | KEY LOCK |
| Y | INDEPENDENT KEY LOCK |
| Z | PADLOCK HASP |

CABINET TYPE IDENTIFICATION SYSTEM IS INTENDED TO ESTABLISH GENERAL LAYOUT AND CONFIGURATION OF CABINETS. BIDDER SHALL REFER ALSO TO DETAILS AND SPECIFICATIONS FOR MORE INFORMATION CONCERNING CABINET CONSTRUCTION.

## CABINET IDENTIFICATION SYSTEM



B100 OPEN ADJUSTABLE SHELVES

B101 OPEN (6) EQ. CUBBIES FIXED SHELVES

B102 OPEN FIXED CENTER DIVIDERS ADJUSTABLE SHELVES

B103 OPEN TOP SHELF (3) EQ. VERT. DIVIDERS ADJUSTABLE SHELVES DOORS

B200 (1) DOOR ADJUSTABLE SHELF

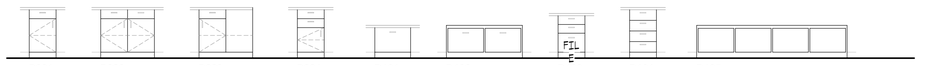
B201 (2) DOORS ADJUSTABLE SHELF

B210 SINK BASE FACE RAIL ONLY

B211 SINK BASE FACE RAIL SUBTOP OMMITED

B212 SINK BASE FACE RAIL SUBTOP OMMITED

B213 SINK BASE CONCEALED RAIL SUBTOP OMMITED



B221 (1) DRAWER (1) DOOR ADJUSTABLE SHELF

B222 (2) DRAWERS (2) DOORS ADJUSTABLE SHELF

B223 (1) DRAWER (1) DOOR ADJUSTABLE SHELF BLIND CORNER

B224 (2) DRAWERS (1) DOOR ADJUSTABLE SHELF

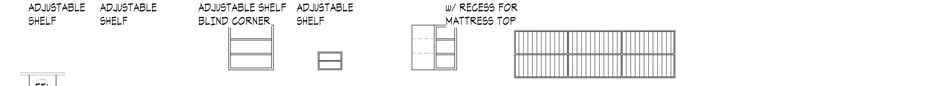
D101 (1) DRAWER

D102 (2) EQ. DRAWERS W/ RECESS FOR MATTRESS TOP

D103 (2) EQ. DRAWERS (1) FILE DRAWER

D104 (4) EQ. DRAWERS

D105 (4) EQ. OPEN SPACES WITH BENCH TOP



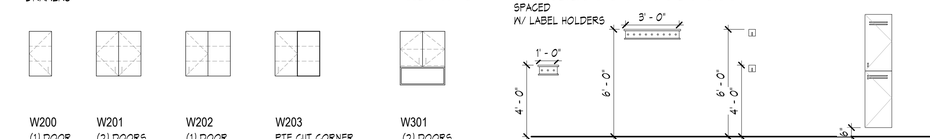
F101 (2) EQ. FILE DRAWERS

W100 OPEN ADJUSTABLE SHELVES

W101 OPEN (1) FIXED SHELF

W102 OPEN ADJUSTABLE SHELVES BLIND CORNER

W103 OPEN MAIL SLOTS (2) FIXED VERT. DIVIDERS - EVENLY SPACED (1) FIXED HORZ. DIVIDER - CENTERED (11) 1/4" DIVIDERS PER EACH OPENING - EVENLY SPACED W/ LABEL HOLDERS




W200 (1) DOOR ADJUSTABLE SHELVES

W201 (2) DOORS ADJUSTABLE SHELVES

W202 (1) DOOR ADJUSTABLE SHELVES BLIND CORNER

W203 PIE CUT CORNER (2) DOORS - BI-FOLDING ADJUSTABLE SHELVES

W301 (2) DOORS ADJUSTABLE SHELF OPEN, FIXED BOTTOM SHELF

W106 COAT RACK W/ (3) COAT HOOKS - EVENLY SPACED

W106 COAT RACK W/ (9) COAT HOOKS - EVENLY SPACED

W104 COAT HOOK

W105 STACKED LOCKER (2)

T105 STACKED LOCKER (2)

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# IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500

DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE

3284 INDUSTRIAL LOOP, COEUR D'ALENE, IDAHO 83815

CABINET IDENTIFICATION

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | |
| DRAWN BY | |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | SJR |
| REVISION | RECORD SET |
| SHEET NO. | A8.00 |

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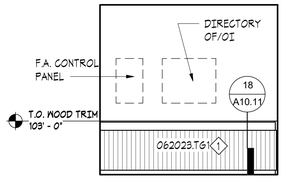
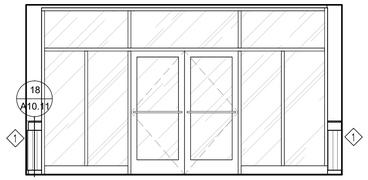



100 VESTIBULE
SCALE: 1/4" = 1'-0"

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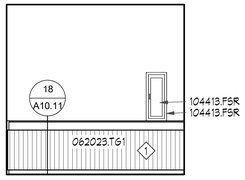


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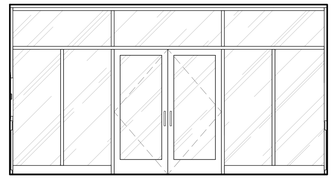

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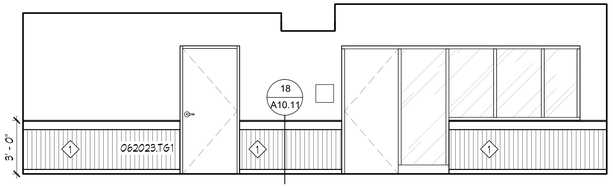
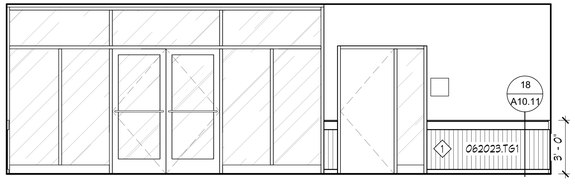
SCALE: 1/4" = 1'-0"




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

RECEPTION




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

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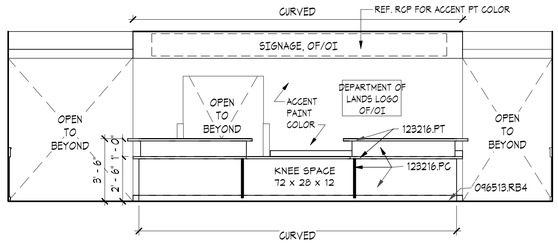
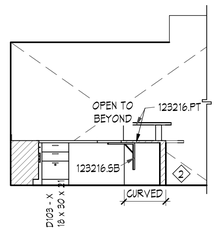
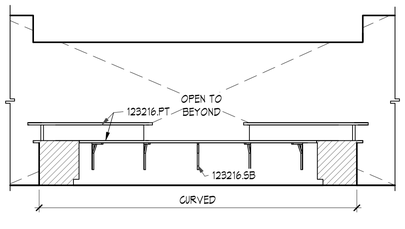



101 RECEPTION
SCALE: 1/4" = 1'-0"




101 RECEPTION DESK
SCALE: 1/4" = 1'-0"

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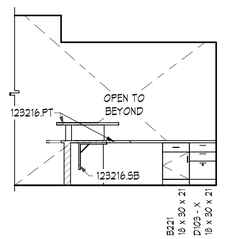


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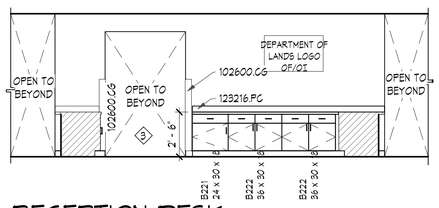


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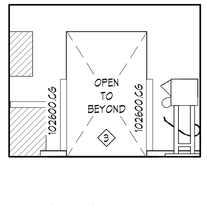
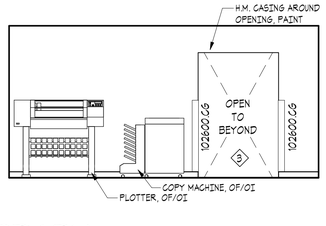
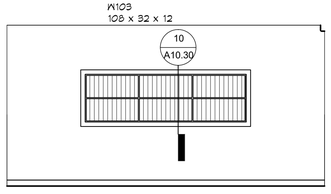


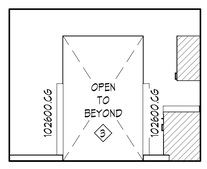

102 COPY RM
SCALE: 1/4" = 1'-0"




102 COPY RM
SCALE: 1/4" = 1'-0"




102 137 HALL E
SCALE: 1/4" = 1'-0"




102 COPY RM
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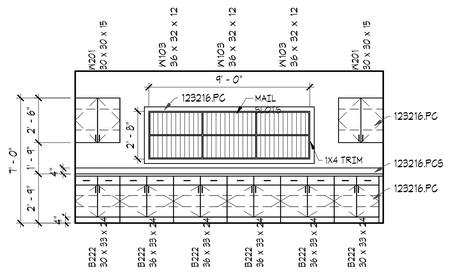


102 COPY RM
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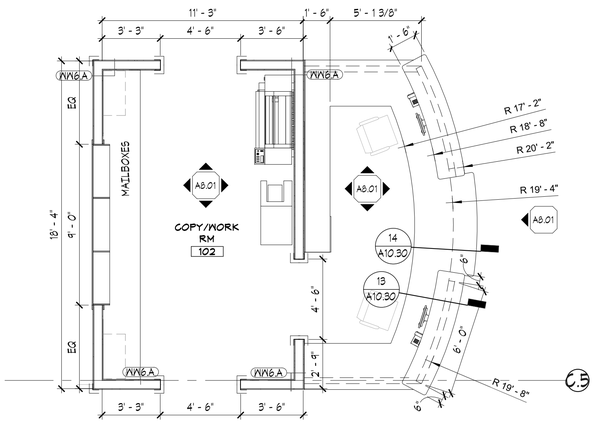



03 ENLARGED FLOOR PLAN
SCALE: 1/4" = 1'-0"

## MATERIALS KEYING LEGEND

| Keynote No. | Keynote Description |
|---|---|
| 062023.TG1 | 1x8 T&G PLANK |
| 096513.RB4 | 4" RUBBER BASE |
| 102600.CG | CORNER GUARD |
| 104413.F5R | SEMI-RECESSED FIRE EXT. CABINET |
| 123216.PC | PLAM. CASEWORK |
| 123216.PCS | PLAM. COUNTERTOP AND SPLASH |
| 123216.PT | PLASTIC LAMINATE TOP |
| 123216.SB | SUPPORT BRACKET |

## MATERIAL LEGEND

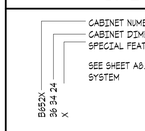
## KEY NOTES

1. WOOD WAINSCOT & TRIM TO WRAP CORNER & RETURN TO ALUMINUM FRAME
2. CHASE BY CASEWORK MFR FOR ELECTRICAL ROUTING
3. PROVIDE CORNER GUARDS AT ALL 4 CORNERS OR OPENING
4. 102600.CG CORNER GUARDS, TYP.

## GENERAL NOTES

1. SEE OTHER 'A' SERIES SHEETS FOR ADDITIONAL INFORMATION WHERE APPLICABLE
2. SEE MECH, ELECTRICAL, STRUCTURAL, AND OTHER SYSTEMS DRAWINGS FOR INFORMATION NOT INDICATED ON THIS SHEET.
3. SEE SHEET A0.01 FOR TYPICAL EQUIPMENT MOUNTING HEIGHTS
4. ALL BACKSPLASHES SHALL BE 4" HIGH UNLESS NOTED OTHERWISE
5. GROMMETS SHALL BE PROVIDED AT ALL KNEES SPACES AT MAXIMUM 36" O.C. PROVIDE MINIMUM OF 1 GROMMET FOR KNEE SPACES < 48" WIDE PROVIDE MINIMUM OFF 2 GROMMETS FOR KNEES SPACES > 48" WIDE.
6. CONTRACTOR TO VERIFY INSTALLATION CLEARANCES FOR BUILT-IN EQUIPMENT, APPLIANCES, CASEWORK.
7. PROVIDE SOLID BACKING AT ALL WALL MOUNT TOILET ACCESSORIES, PARTITIONS, CABINETS, HARDWARE, ETC.
8. ALL CASEWORK SHALL BE PLASTIC LAMINATE U.N.O.
9. ALL COUNTERTOPS SHALL BE PLASTIC LAMINATE U.N.O.
10. ALL COUNTERTOPS, AND BACKSPLASHES SHALL BE PROVIDED BY CASEWORK MANUFACTURER, U.N.O.

## CAB LEGEND

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Electrical Engineer
TRINDERA ENGINEERING
1875 N. LAKEWOOD DRIVE
STE. 201 COEUR D'ALENE, ID
208.620.3314

Surveyor
J-U-B ENGINEERS, INC.
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208.762.8787

# IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500

DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE

3284 INDUSTRIAL LOOP, COEUR D'ALENE, IDAHO 83815

INTERIOR ELEVATIONS

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | SJR/GMJ |
| DRAWN BY | RF / RM |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | SJR |
| REVISION | RECORD SET |
| SHEET NO. | A8.01 |

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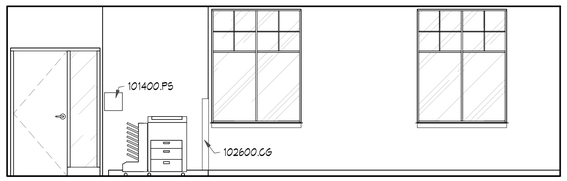


103 MICA OPEN OFFICE
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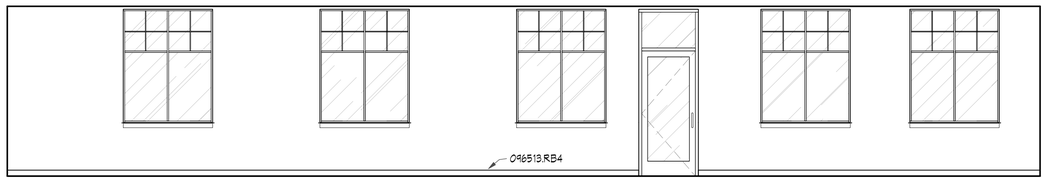


103 MICA OPEN OFFICE
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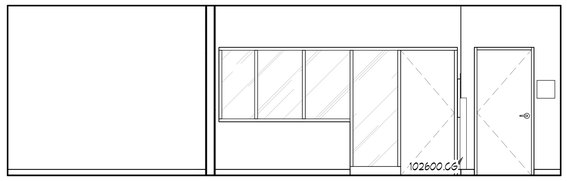


103 MICA OPEN OFFICE
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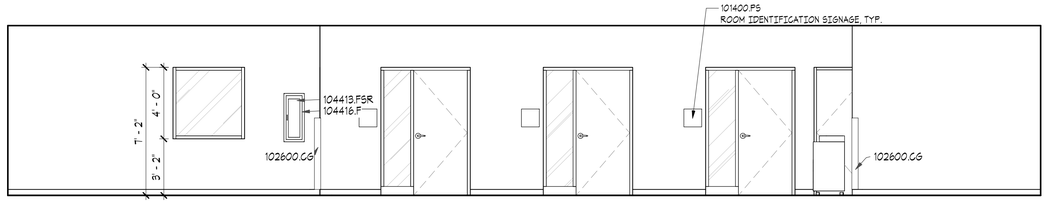


103 MICA OPEN OFFICE
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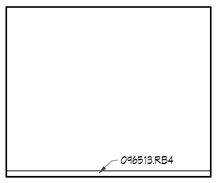


106 TYP. OFFICE
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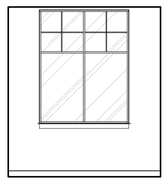

106 TYP. OFFICE
SCALE: 1/4" = 1'-0"

106 TYP. OFFICE
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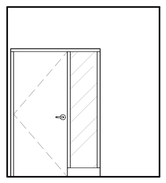

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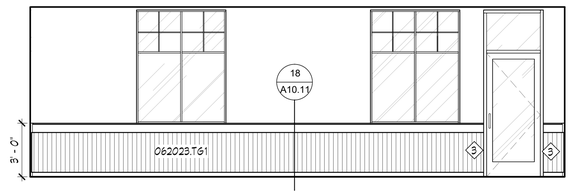


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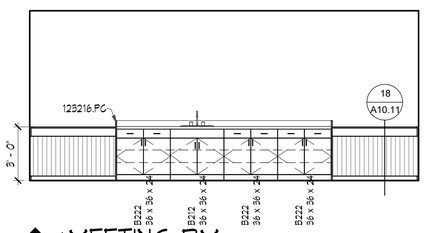


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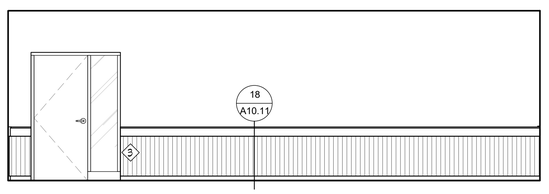


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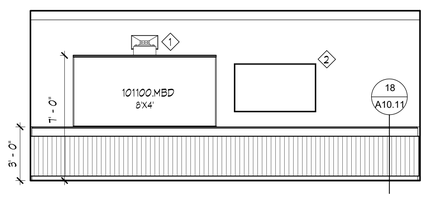


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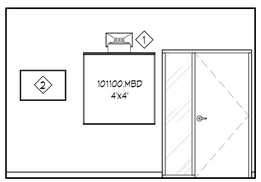


112 TECH SERVICES
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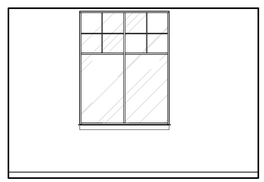
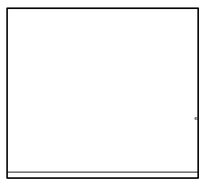


113 TYP. MANAGER OFFICE
SCALE: 1/4" = 1'-0"



113 TYP. MANAGER OFFICE
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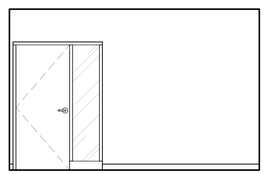

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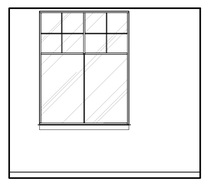

113 TYP. MANAGER OFFICE
SCALE: 1/4" = 1'-0"

## MATERIALS KEYING LEGEND

| Keynote No. | Keynote Description |
|---|---|
| 062023.TG1 | 1x8 T&G PLANK |
| 096513.RB4 | 4" RUBBER BASE |
| 101100.MBD | MARKER BOARD |
| 101400.PS | PANEL SIGN |
| 102600.CG | CORNER GUARD |
| 104413.FSR | SEMI-RECESSED FIRE EXT. CABINET |
| 104416.F | FIRE EXTINGUISHER |
| 123216.PG | PLAM. CASEWORK |

## MATERIAL LEGEND

## KEY NOTES

1. SHORT-THROW PROJECTOR OF/OI. COORDINATE EXACT LOCATION & MOUNTING REQMENTS W. ARCHITECT
2. TV MONITOR OF/OI. COORDINATE EXACT LOCATION & MOUNTING REQMENTS W. ARCHITECT.
3. WOOD WAINSCOT & TRIM TO WRAP CORNER & RETURN TO ALUMINUM FRAME.

## GENERAL NOTES

1. SEE OTHER 'A' SERIES SHEETS FOR ADDITIONAL INFORMATION WHERE APPLICABLE
2. SEE MECH, ELECTRICAL, STRUCTURAL, AND OTHER SYSTEMS DRAWINGS FOR INFORMATION NOT INDICATED ON THIS SHEET.
3. SEE SHEET A0.01 FOR TYPICAL EQUIPMENT MOUNTING HEIGHTS
4. ALL BACKSPLASHES SHALL BE 4" HIGH UNLESS NOTED OTHERWISE
5. GROMMETS SHALL BE PROVIDED AT ALL KNEES SPACES AT MAXIMUM 36" O.C. PROVIDE MINIMUM OF 1 GROMMET FOR KNEE SPACES < 48" WIDE PROVIDE MINIMUM OFF 2 GROMMETS FOR KNEES SPACES > 48" WIDE.
6. CONTRACTOR TO VERIFY INSTALLATION CLEARANCES FOR BUILT-IN EQUIPMENT, APPLIANCES, CASEWORK.
7. PROVIDE SOLID BACKING AT ALL WALL MOUNT TOILET ACCESSORIES, PARTITIONS, CABINETS, HARDWARE, ETC.
8. ALL CASEWORK SHALL BE PLASTIC LAMINATE U.N.O.
9. ALL COUNTERTOPS SHALL BE PLASTIC LAMINATE U.N.O.
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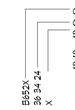
## CAB LEGEND




SEE SHEET A8.00 FOR CABINET IDENTIFICATION SYSTEM

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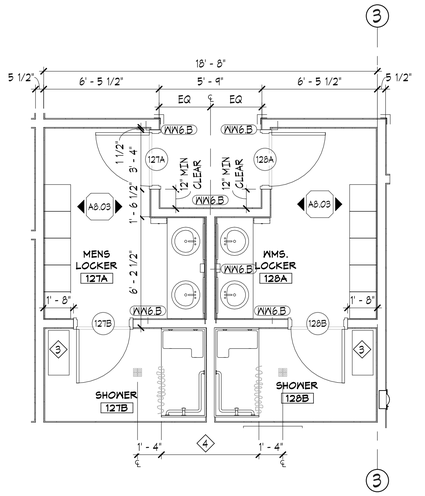
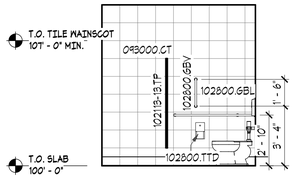
IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500
DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE
3284 INDUSTRIAL LOOP, COEUR D'ALENE, IDAHO 83815
INTERIOR ELEVATIONS

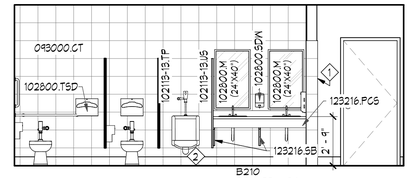
| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | SJR/GMJ |
| DRAWN BY | RF / RM |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | SJR |
| REVISION | RECORD SET |
| SHEET NO. | A8.02 |



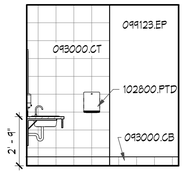

101 ENLARGED FLOOR PLAN
SCALE: 1/4" = 1'-0"




117 MENS RR
SCALE: 1/4" = 1'-0"




117 MENS RR
SCALE: 1/4" = 1'-0"




117 MENS RR
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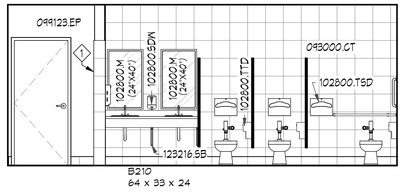
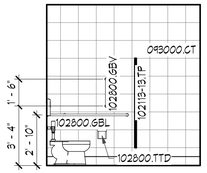
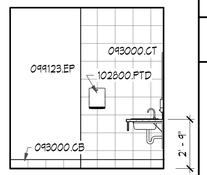


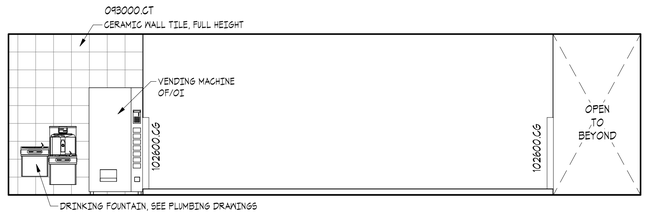

118 WOMENS RR
SCALE: 1/4" = 1'-0"



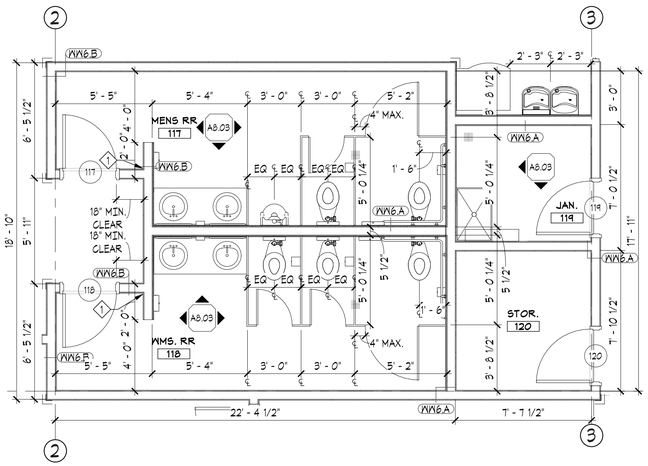

118 WOMENS RR
SCALE: 1/4" = 1'-0"



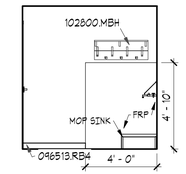

118 WOMENS RR
SCALE: 1/4" = 1'-0"



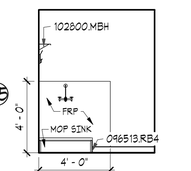

111A HALL
SCALE: 1/4" = 1'-0"



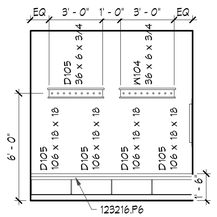

02 ENLARGED FLOOR PLAN
SCALE: 1/4" = 1'-0"



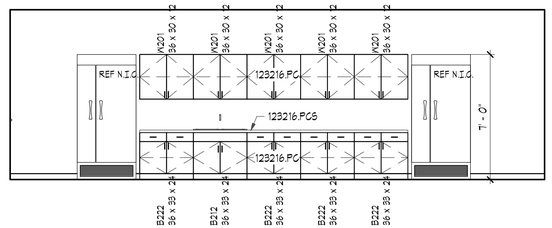

118 JAN.
SCALE: 1/4" = 1'-0"



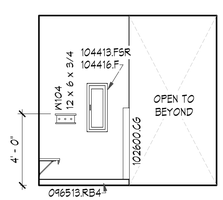

118 JAN.
SCALE: 1/4" = 1'-0"



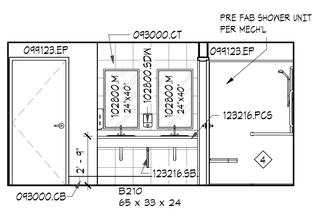

123 MUD ROOM
SCALE: 1/4" = 1'-0"




124 BREAK RM / KITCHEN
SCALE: 1/4" = 1'-0"

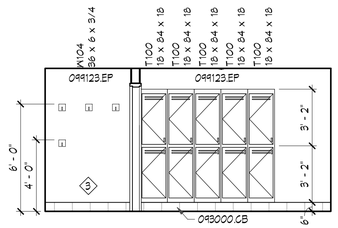



123 MUD ROOM
SCALE: 1/4" = 1'-0"



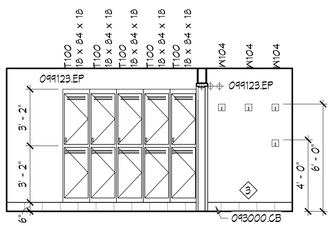

127A MENS LOCKER
SCALE: 1/4" = 1'-0"

128B SHOWER
SCALE:1/4"=1'-0"



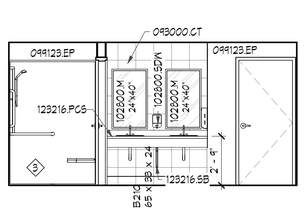

127B SHOWER
SCALE: 1/4" = 1'-0"

128A MENS LOCKER
SCALE:1/4"=1'-0"




128A WMS LOCKER
SCALE: 1/4" = 1'-0"

128B SHOWER
SCALE:1/4"=1'-0"



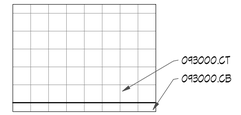

128B SHOWER
SCALE: 1/4" = 1'-0"

128A WMS LOCKER
SCALE:1/4"=1'-0"

## MATERIALS KEYING LEGEND

| Keynote No. | Keynote Description |
|---|---|
| 093000.CB | 6" HIGH COVED BASE |
| 093000.CT | CERAMIC TILE |
| 096513.RB4 | 4" RUBBER BASE |
| 099123.EP | EPOXY PAINT FINISH |
| 102113-13.TP | TOILET PARTITION |
| 102113-13U5 | URINAL SCREEN |
| 102600.CG | CORNER GUARD |
| 102800.6BL | GRAB BAR L-SHAPED |
| 102800.6BV | GRAB BAR VERTICAL |
| 102800.M | MIRROR |
| 102800.MBH | MOP AND BROOM HOLDER |
| 102800.PTD | PAPER TOWEL DISPENSER OFOI |
| 102800.SDW | SOAP DISPENSER - WALL MOUNTED OFOI |
| 102800.TSD | TOILET SEAT COVER DISPENSER OFCI |
| 102800.TTD | TOILET TISSUE DISPENSER OFOI |
| 104413.F5R | SEMI-RECESSED FIRE EXT. CABINET |
| 104416.F | FIRE EXTINGUISHER |
| 123216.P6 | BENCH |
| 123216.PC | PLAM. CASEWORK |
| 123216.PCS | PLAM. COUNTERTOP AND SPLASH |
| 123216.SB | SUPPORT BRACKET |

## MATERIAL LEGEND




## KEY NOTES

1. CERAMIC TILE SHALL RETURN TO INSIDE CORNER
2. URINAL SHALL BE MOUNTED AT A RIM HEIGHT OF 17"
3. BENCH OF/OI
4. RECESS SLAB FOR PRE-FAB SHOWER PER MFR'S WRITTEN REQUIREMENT. SEE STR'L.

## GENERAL NOTES

1. SEE OTHER 'A' SERIES SHEETS FOR ADDITIONAL INFORMATION WHERE APPLICABLE
2. SEE MECH, ELECTRICAL, STRUCTURAL, AND OTHER SYSTEMS DRAWINGS FOR INFORMATION NOT INDICATED ON THIS SHEET.
3. SEE SHEET A0.01 FOR TYPICAL EQUIPMENT MOUNTING HEIGHTS
4. ALL BACKSPLASHES SHALL BE 4" HIGH UNLESS NOTED OTHERWISE
5. GROMMETS SHALL BE PROVIDED AT ALL KNEES SPACES AT MAXIMUM 36" O.C. PROVIDE MINIMUM OF 1 GROMMET FOR KNEE SPACES < 48" WIDE. PROVIDE MINIMUM OFF 2 GROMMETS FOR KNEES SPACES > 48" WIDE.
6. CONTRACTOR TO VERIFY INSTALLATION CLEARANCES FOR BUILT-IN EQUIPMENT, APPLIANCES, CASEWORK.
7. PROVIDE SOLID BACKING AT ALL WALL MOUNT TOILET ACCESSORIES, PARTITIONS, CABINETS, HARDWARE, ETC.
8. ALL CASEWORK SHALL BE PLASTIC LAMINATE U.N.O.
9. ALL COUNTERTOPS SHALL BE PLASTIC LAMINATE U.N.O.
10. ALL COUNTERTOPS, AND BACKSPLASHES SHALL BE PROVIDED BY CASEWORK MANUFACTURER, U.N.O.

## CAB LEGEND

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STE. 201 COEUR D'ALENE, ID
208.620.3314

Surveyor
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COEUR D'ALENE IDAHO, 83815
208.762.8787

IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500
DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE
3284 INDUSTRIAL LOOP, COEUR D'ALENE, IDAHO 83815
INTERIOR ELEVATIONS

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | SJR/GMJ |
| DRAWN BY | RF / RM |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | SJR |
| REVISION | RECORD SET |
| SHEET NO. | A8.03 |

PLOTTED: 8/13/2018 1:29:49 PM
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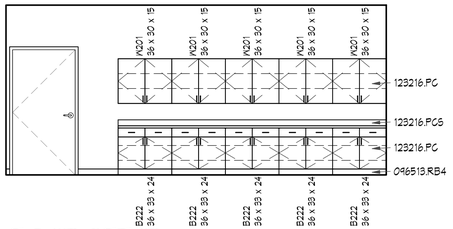
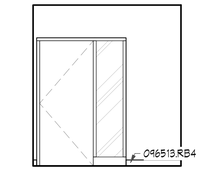


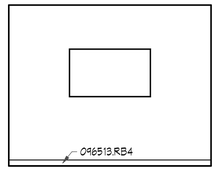

131 EQUIP SETUP

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




131 CONF SM

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

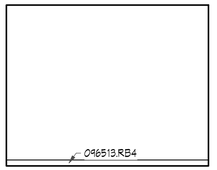



131 CONF SM

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

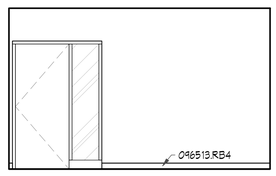
131 CONF SM

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



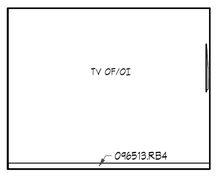

131 CONF SM

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



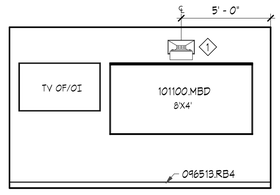

132 CONF. LRG

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



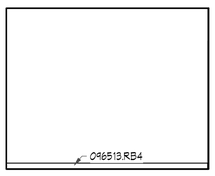

132 CONF. LRG

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



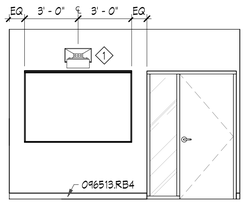

132 CONF. LRG

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




132 CONF. LRG

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




132 I.T. MANAGER

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

## MATERIALS KEYING LEGEND

| Keynote No. | Keynote Description |
|---|---|
| 096513.RB4 | 4" RUBBER BASE |
| 101100.MBD | MARKER BOARD |
| 123216.PC | PLAM. CASEWORK |
| 123216.PCS | PLAM. COUNTERTOP AND SPLASH |

## MATERIAL LEGEND

## KEY NOTES

## GENERAL NOTES

1. SEE OTHER 'A' SERIES SHEETS FOR ADDITIONAL INFORMATION WHERE APPLICABLE
2. SEE MECH, ELECTRICAL, STRUCTURAL, AND OTHER SYSTEMS DRAWINGS FOR INFORMATION NOT INDICATED ON THIS SHEET.
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4. ALL BACKSPLASHES SHALL BE 4" HIGH UNLESS NOTED OTHERWISE
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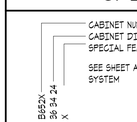
6. CONTRACTOR TO VERIFY INSTALLATION CLEARANCES FOR BUILT-IN EQUIPMENT, APPLIANCES, CASEWORK.
7. PROVIDE SOLID BACKING AT ALL WALL MOUNT TOILET ACCESSORIES, PARTITIONS, CABINETS, HARDWARE, ETC.
8. ALL CASEWORK SHALL BE PLASTIC LAMINATE U.N.O.
9. ALL COUNTERTOPS SHALL BE PLASTIC LAMINATE U.N.O.
10. ALL COUNTERTOPS, AND BACKSPLASHES SHALL BE PROVIDED BY CASEWORK MANUFACTURER, U.N.O.

## CAB LEGEND

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# IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500

## DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE

## 3284 INDUSTRIAL LOOP, COEUR D'ALENE, IDAHO 83815

INTERIOR ELEVATIONS

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | SJR/GMJ |
| DRAWN BY | RF / RM |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | SJR |
| REVISION | RECORD SET |
| SHEET NO. | |

A8.04

# DOOR SCHEDULE

| NO. | DOOR Size (W x H x T) | DOOR Type | DOOR Relite | DOOR Finish | DOOR Insul | FRAME Type | FRAME Depth | FRAME Sidelight/ Transom | FRAME Finish | DETAILS Head | DETAILS Jamb | DETAILS Threshold | Hardware Group | Fire Label | Blinds | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100A | PR 3'-0" x 7'-0" | D-AS.1 | X | FF | | F-AS.5 | 0' - 4 1/2" | X | FF | 1/A10.20 | 2/A10.20 | 3/A10.20 | 01 | | | IGU/ITGU |
| 100B | PR 3'-0" x 7'-0" | D-AS.1 | X | FF | | F-AS.4 | 0' - 4 1/2" | X | FF | 1/A10.20 | 2/A10.20 | 3/A10.20 | 02 | | | IGU/ITGU |
| 101A | 3'-0" x 7'-0" x 1 3/4" | D-WD.1 | | FF | | F-AS.2 | 0' - 4 1/2" | X | FF | 4/A10.20 | 4/A10.20 | | 03 | | X | SG |
| 103A | 3'-0" x 7'-0" x 1 3/4" | D-WD.1 | | FF | | F-AS.3 | 0' - 4 1/2" | X | FF | 4/A10.20 SIM | 4/A10.20 SIM | | 04 | | X | SG |
| 103B | 3'-0" x 7'-0" x 1 3/4" | D-AS.1 | X | FF | | F-AS.7 | 0' - 0" | X | FF | 1/A10.20 | 2/A10.20 | 3/A10.20 | 17 | | | IGU/ITGU |
| 104 | 3'-0" x 7'-0" x 1 3/4" | D-WD.1 | | FF | | F-HM.2 | 0' - 7 3/4" | X | PT | 5/A10.20 | 5/A10.20 | | 03 | | X | SG |
| 105 | 3'-0" x 7'-0" x 1 3/4" | D-WD.3 | X | FF | | F-HM.1 | 0' - 7 3/4" | | PT | 5/A10.20 | 5/A10.20 | | 03 | | | |
| 106 | 3'-0" x 7'-0" x 1 3/4" | D-WD.1 | | FF | | F-HM.2 | 0' - 7 3/4" | X | PT | 5/A10.20 | 5/A10.20 | | 03 | | X | SG |
| 107 | 3'-0" x 7'-0" x 1 3/4" | D-WD.1 | | FF | | F-HM.2 | 0' - 7 3/4" | X | PT | 5/A10.20 | 5/A10.20 | | 03 | | X | SG |
| 108 | 3'-0" x 7'-0" x 1 3/4" | D-WD.1 | | FF | | F-HM.2 | 0' - 7 3/4" | X | PT | 5/A10.20 | 5/A10.20 | | 03 | | X | SG |
| 109A | 3'-0" x 7'-0" x 1 3/4" | D-WD.2 | | FF | | F-HM.1 | 0' - 7 3/4" | | PT | 5/A10.20 | 5/A10.20 | | 05 | | X | SG / BLINDS ON RELITE. PROVIDE SIDE GUIDES |
| 109B | 3'-0" x 7'-0" x 1 3/4" | D-WD.1 | | FF | | F-HM.1 | 0' - 7 3/4" | | PT | 5/A10.20 | 5/A10.20 | | 12 | | | |
| 110A | 3'-0" x 7'-0" x 1 3/4" | D-AS.1 | X | FF | | F-AS.7 | 0' - 4 1/2" | X | FF | 1/A10.20 | 2/A10.20 | 3/A10.20 | 06 | | | IGU/ITGU |
| 110B | 3'-0" x 7'-0" x 1 3/4" | D-WD.1 | | FF | | F-HM.2 | 0' - 7 3/4" | X | PT | 5/A10.20 | 5/A10.20 | | 07 | | X | SG |
| 111A | 3'-0" x 7'-0" x 1 3/4" | D-WD.1 | | FF | | F-HM.2 | 0' - 7 3/4" | X | PT | 5/A10.20 | 5/A10.20 | | 08 | | X | SG |
| 111B | 3'-0" x 7'-0" x 1 3/4" | D-WD.1 | | FF | | F-HM.2 | 0' - 7 3/4" | X | PT | 5/A10.20 | 5/A10.20 | | 08 | | X | SG |
| 112 | 3'-0" x 7'-0" x 1 3/4" | D-WD.1 | | FF | | F-HM.2 | 0' - 7 3/4" | X | PT | 5/A10.20 | 5/A10.20 | | 03 | | X | SG |
| 113 | 3'-0" x 7'-0" x 1 3/4" | D-WD.1 | | FF | | F-HM.2 | 0' - 7 3/4" | X | PT | 5/A10.20 | 5/A10.20 | | 03 | | X | SG |
| 114 | 3'-0" x 7'-0" x 1 3/4" | D-WD.1 | | FF | | F-HM.2 | 0' - 7 3/4" | X | PT | 5/A10.20 | 5/A10.20 | | 04 | | X | SG |
| 115 | 3'-0" x 7'-0" x 1 3/4" | D-WD.1 | | FF | | F-HM.1 | 0' - 7 3/4" | | PT | 5/A10.20 | 5/A10.20 | | 05 | | | |
| 116 | 3'-0" x 7'-0" x 1 3/4" | D-WD.1 | | FF | | F-HM.2 | 0' - 7 3/4" | X | PT | 5/A10.20 | 5/A10.20 | | 04 | | X | SG |
| 117 | 3'-0" x 7'-0" x 1 3/4" | D-WD.1 | | FF | | F-HM.1 | 0' - 7 3/4" | | PT | 5/A10.20 | 5/A10.20 | | 09 | | | |
| 118 | 3'-0" x 7'-0" x 1 3/4" | D-WD.1 | | FF | | F-HM.1 | 0' - 7 3/4" | | PT | 5/A10.20 | 5/A10.20 | | 09 | | | |
| 119 | 3'-0" x 7'-0" x 1 3/4" | D-WD.1 | | FF | | F-HM.1 | 0' - 7 3/4" | | PT | 5/A10.20 | 5/A10.20 | | 05 | | | |
| 120 | 3'-0" x 7'-0" x 1 3/4" | D-WD.1 | | FF | | F-HM.1 | 0' - 7 3/4" | | PT | 5/A10.20 | 5/A10.20 | | 05 | | | |
| 121 | PR 3'-0" x 8'-0" x 1 3/4" | D-HM.1 | | S/V | | F-HM.1 | 0' - 7 1/4" | | PT | 5/A10.20 | 5/A10.20 | | 10 | | | |
| 121A | PR 3'-0" x 8'-0" x 1 3/4" | D-HM.1 | | S/V | | F-HM.1 | 0' - 9" | | PT | 5/A10.20 SIM | 5/A10.20 SIM | | 10 | | | |
| 121B | 3'-0" x 7'-0" x 1 3/4" | D-AS.1 | X | FF | | F-AS.6 | 0' - 4 1/2" | X | FF | 1/A10.20 | 2/A10.20 | 3/A10.20 | 17 | | | IGU/ITGU |
| 122A | 3'-0" x 7'-0" x 1 3/4" | D-WD.1 | | FF | | F-HM.1 | 0' - 7 3/4" | | PT | 5/A10.20 | 5/A10.20 | | 04 | | | |
| 122B | 3'-0" x 7'-0" x 1 3/4" | D-AS.1 | X | FF | | F-AS.7 | 0' - 0" | X | FF | 1/A10.20 | 2/A10.20 | 3/A10.20 | 17 | | | IGU/ITGU |
| 123 | 3'-0" x 7'-0" x 1 3/4" | D-AS.1 | X | FF | | F-AS.7 | 0' - 0" | X | FF | 1/A10.20 | 2/A10.20 | 3/A10.20 | 11 | | | IGU/ITGU |
| 124A | 3'-0" x 7'-0" x 1 3/4" | D-AS.1 | X | FF | | F-AS.7 | 0' - 0" | X | FF | 1/A10.20 | 2/A10.20 | 3/A10.20 | 17 | | | IGU/ITGU |
| 124B | 3'-0" x 7'-0" x 1 3/4" | D-WD.1 | | FF | | F-HM.2 | 0' - 7 3/4" | X | PT | 5/A10.20 | 5/A10.20 | | 13 | | | SG |
| 125 | 3'-0" x 7'-0" x 1 3/4" | D-WD.1 | | FF | | F-HM.1 | 0' - 7 3/4" | | PT | 5/A10.20 | 5/A10.20 | | 12 | | | |
| 126 | 3'-0" x 7'-0" x 1 3/4" | D-WD.1 | | FF | | F-HM.1 | 0' - 7 3/4" | | PT | 5/A10.20 | 5/A10.20 | | 05 | | | |
| 127A | 3'-0" x 7'-0" x 1 3/4" | D-WD.1 | | FF | | F-HM.1 | 0' - 7 3/4" | | PT | 5/A10.20 | 5/A10.20 | | 09 | | | |
| 127B | 3'-0" x 7'-0" x 1 3/4" | D-WD.1 | | FF | | F-HM.1 | 0' - 7 3/4" | | PT | 5/A10.20 | 5/A10.20 | | 14 | | | |
| 128A | 3'-0" x 7'-0" x 1 3/4" | D-WD.1 | | FF | | F-HM.1 | 0' - 7 3/4" | | PT | 5/A10.20 | 5/A10.20 | | 19 | | | |
| 128B | 3'-0" x 7'-0" x 1 3/4" | D-WD.1 | | FF | | F-HM.1 | 0' - 7 3/4" | | PT | 5/A10.20 | 5/A10.20 | | 14 | | | |
| 129 | 3'-6" x 7'-0" x 1 3/4" | D-HM.1 | | FF | | F-HM.1 | 0' - 7 3/4" | | PT | 5/A10.20 | 5/A10.20 | | 15 | | | |
| 130 | 3'-6" x 7'-0" x 1 3/4" | D-HM.1 | | FF | | F-HM.1 | 0' - 7 3/4" | | PT | 5/A10.20 | 5/A10.20 | | 16 | | | |
| 131 | 3'-0" x 7'-0" x 1 3/4" | D-WD.1 | | FF | | F-AS.2 | 0' - 4 1/2" | X | FF | 4/A10.20 SIM | 4/A10.20 SIM | | 13 | | X | SG |
| 132 | 3'-0" x 7'-0" x 1 3/4" | D-WD.1 | | FF | | F-AS.2 | 0' - 4 1/2" | X | FF | 4/A10.20 SIM | 4/A10.20 SIM | | 13 | | X | SG |
| 133 | 3'-0" x 7'-0" x 1 3/4" | D-WD.1 | | FF | | F-HM.2 | 0' - 7 3/4" | X | PT | 5/A10.20 | 5/A10.20 | | 03 | | X | SG |
| 134A | 3'-0" x 7'-0" x 1 3/4" | D-WD.1 | | FF | | F-HM.2 | 0' - 7 3/4" | X | PT | 5/A10.20 | 5/A10.20 | | 04 | | X | SG |
| 134B | 3'-0" x 7'-0" x 1 3/4" | D-AS.1 | X | FF | | F-AS.7 | 0' - 0" | X | FF | 1/A10.20 | 2/A10.20 | 3/A10.20 | 17 | | | IGU/ITGU |
| 135A | 3'-6" x 7'-0" x 1 3/4" | D-HM.1 | | FF | | F-HM.1 | 0' - 7 3/4" | | PT | 5/A10.20 | 5/A10.20 | | 16 | | | |
| 135C | 8' - 0" x 9' - 4" | D-OHS.1 | | PT | X | | | | PT | 7/A10.20 | 8/A10.20 | | 18 | | | |
| 200A | 2'-0" x 7'-0" x 1 3/4" | D-HM.1 | | PT | X | F-HM.1 | 0' - 7 1/8" | | PT | 5/A10.20 | 5/A10.20 | | 05 | | | |
| 200B | 2'-0" x 7'-0" x 1 3/4" | D-HM.1 | | PT | X | F-HM.1 | 0' - 7 1/8" | | PT | 5/A10.20 | 5/A10.20 | | 05 | | | |
| 200C | 2'-0" x 7'-0" x 1 3/4" | D-HM.1 | | PT | X | F-HM.1 | 0' - 7 1/8" | | PT | 5/A10.20 | 5/A10.20 | | 05 | | | |

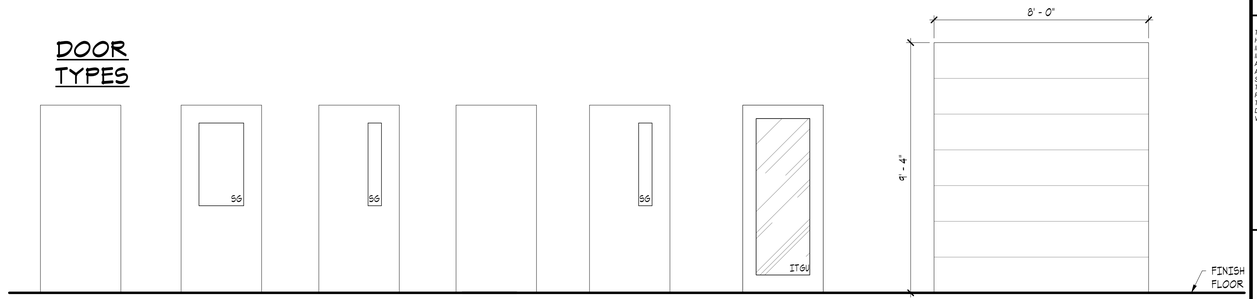
**NOTES:**

1. Contractor to field verify required depths of all frames to fit wall conditions prior to shop drawing submittal.
2. Contractor shall coordinate with owner for hardware requirements. All locksets & latches shall be ADA compliant.

**ABBREVIATIONS:**

| | |
|---|---|
| FF | FACTORY FINISH |
| IGU | INSULATED GLAZING UNIT |
| ITGU | INSULATED TEMPERED GLAZING UNIT |
| PT | PAINT FINISH |
| SG | SAFETY GLAZING |

## DOOR TYPES




**D-WD.1** 081416 WOOD DOOR

**D-WD.2** 081416 WOOD DOOR

**D-WD.3** 081416 WOOD DOOR

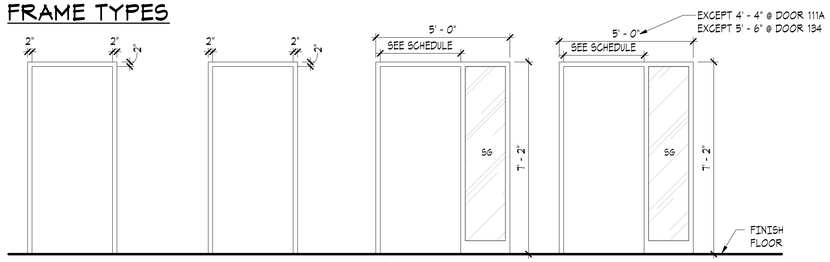
**D-HM.1** 081113 HOLLOW METAL

**D-HM.2** 081113 HOLLOW METAL

**D-AS.1** 084113 ALUMINUM STOREFRONT DOOR

**D-OHS.2** OVERHEAD DOOR

## FRAME TYPES

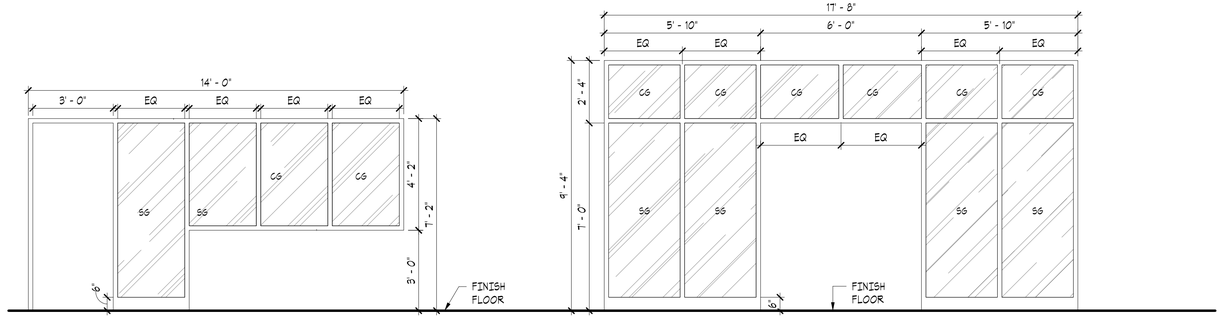



**F-HM.1** 081113 HOLLOW METAL

**F-AS.1** 084113 ALUMINUM STOREFRONT

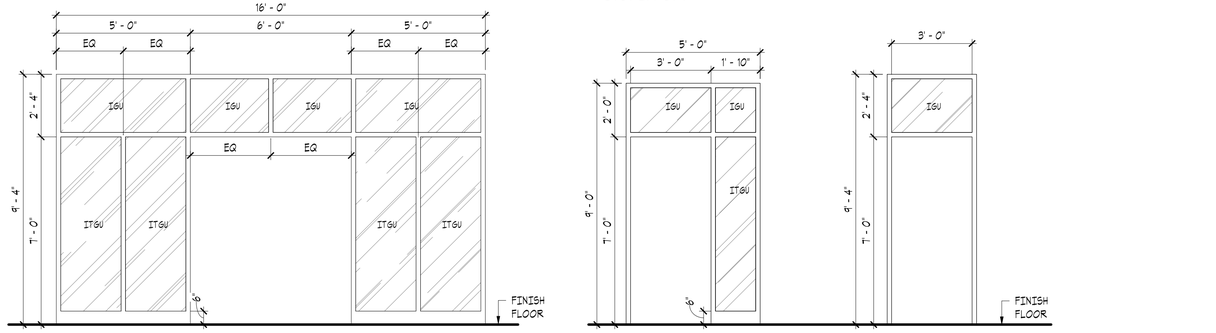
**F-HM.2** 081113 HOLLOW METAL

**F-AS.2** 084113 ALUMINUM STOREFRONT




**F-AS.3** 084113 ALUMINUM STOREFRONT

**F-AS.4** 084113 ALUMINUM STOREFRONT




**F-AS.5** 084113 ALUMINUM STOREFRONT

**F-AS.6** 084113 ALUMINUM STOREFRONT

**F-AS.7** 084113 ALUMINUM STOREFRONT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IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500
DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE
3284 INDUSTRIAL LOOP, COEUR D'ALENE, IDAHO 83815
DOOR SCHEDULE

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | SJR/GMJ |
| DRAWN BY | RF / RM |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | SJR |
| REVISION | RECORD SET |
| SHEET NO. | A9.01 |

# WINDOW SCHEDULE

| NO | WINDOW HEIGHT | WIDTH | GLAZING | FRAME DEPTH | TYPE | FINISH | DETAILS HEAD | JAMB | SILL | BLINDS | FIRE RATING | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 101A | 6' - 4" | 5' - 0" | IGU | | W-CW.1 | FF | 9/A10.20 | 10/A10.20 | 11/A10.20 | X | | |
| 103A | 6' - 4" | 5' - 0" | IGU | | W-CW.1 | FF | 9/A10.20 | 10/A10.20 | 11/A10.20 | X | | |
| 103B | 6' - 4" | 5' - 0" | IGU | | W-CW.1 | FF | 9/A10.20 | 10/A10.20 | 11/A10.20 | X | | |
| 103C | 6' - 4" | 5' - 0" | IGU | | W-CW.1 | FF | 9/A10.20 | 10/A10.20 | 11/A10.20 | X | | |
| 103D | 6' - 4" | 5' - 0" | IGU | | W-CW.1 | FF | 9/A10.20 | 10/A10.20 | 11/A10.20 | X | | |
| 103E | 6' - 4" | 5' - 0" | IGU | | W-CW.1 | FF | 9/A10.20 | 10/A10.20 | 11/A10.20 | X | | |
| 103F | 6' - 4" | 5' - 0" | IGU | | W-CW.1 | FF | 9/A10.20 | 10/A10.20 | 11/A10.20 | X | | |
| 103G | 6' - 4" | 5' - 0" | IGU | | W-CW.1 | FF | 9/A10.20 | 10/A10.20 | 11/A10.20 | X | | |
| 104 | 6' - 4" | 5' - 0" | IGU | | W-CW.1 | FF | 9/A10.20 | 10/A10.20 | 11/A10.20 | X | | |
| 105A | 6' - 4" | 5' - 0" | IGU | | W-CW.1 | FF | 9/A10.20 | 10/A10.20 | 11/A10.20 | X | | |
| 105B | 6' - 4" | 5' - 0" | IGU | | W-CW.1 | FF | 9/A10.20 | 10/A10.20 | 11/A10.20 | X | | |
| 106 | 6' - 4" | 5' - 0" | IGU | | W-CW.1 | FF | 9/A10.20 | 10/A10.20 | 11/A10.20 | X | | |
| 107 | 6' - 4" | 5' - 0" | IGU | | W-CW.1 | FF | 9/A10.20 | 10/A10.20 | 11/A10.20 | X | | |
| 108 | 6' - 4" | 2' - 6" | IGU | | W-CW.2 | FF | 9/A10.20 | 10/A10.20 | 11/A10.20 | X | | |
| 109 | 4' - 0" | 4' - 0" | IGU | | W-HM.1 | PT | 2/A9.02 | 2/A9.02 | 3/A9.02 | X | | |
| 110A | 6' - 4" | 5' - 0" | IGU | | W-CW.1 | FF | 9/A10.20 | 10/A10.20 | 11/A10.20 | X | | |
| 110B | 6' - 4" | 5' - 0" | IGU | | W-CW.1 | FF | 9/A10.20 | 10/A10.20 | 11/A10.20 | X | | |
| 112A | 6' - 4" | 5' - 0" | IGU | | W-CW.1 | FF | 9/A10.20 | 10/A10.20 | 11/A10.20 | X | | |
| 112B | 6' - 4" | 5' - 0" | IGU | | W-CW.1 | FF | 9/A10.20 | 10/A10.20 | 11/A10.20 | X | | |
| 113A | 6' - 4" | 5' - 0" | IGU | | W-CW.1 | FF | 9/A10.20 | 10/A10.20 | 11/A10.20 | X | | |
| 113B | 6' - 4" | 5' - 0" | IGU | | W-CW.1 | FF | 9/A10.20 | 10/A10.20 | 11/A10.20 | X | | |
| 114A | 6' - 4" | 5' - 0" | IGU | | W-CW.1 | FF | 9/A10.20 | 10/A10.20 | 11/A10.20 | X | | |
| 114B | 6' - 4" | 5' - 0" | IGU | | W-CW.1 | FF | 9/A10.20 | 10/A10.20 | 11/A10.20 | X | | |
| 114C | 6' - 4" | 5' - 0" | IGU | | W-CW.1 | FF | 9/A10.20 | 10/A10.20 | 11/A10.20 | X | | |
| 114D | 6' - 4" | 5' - 0" | IGU | | W-CW.1 | FF | 9/A10.20 | 10/A10.20 | 11/A10.20 | X | | |
| 116A | 6' - 4" | 5' - 0" | IGU | | W-CW.1 | FF | 9/A10.20 | 10/A10.20 | 11/A10.20 | X | | |
| 116B | 6' - 4" | 5' - 0" | IGU | | W-CW.1 | FF | 9/A10.20 | 10/A10.20 | 11/A10.20 | X | | |
| 121A | 6' - 4" | 5' - 0" | IGU/ITGU | | W-CW.1 | FF | 9/A10.20 | 10/A10.20 | 11/A10.20 | X | | |
| 121B | 8' - 0" | 5' - 0" | IGU/ITGU | | W-CW.1 | FF | 9/A10.20 | 10/A10.20 | 11/A10.20 | X | | |
| 121C | 6' - 4" | 5' - 0" | IGU/ITGU | | W-CW.1 | FF | 9/A10.20 | 10/A10.20 | 11/A10.20 | X | | |
| 122A | 6' - 4" | 5' - 0" | IGU | | W-CW.1 | FF | 9/A10.20 | 10/A10.20 | 11/A10.20 | X | | |
| 122B | 6' - 4" | 5' - 0" | IGU | | W-CW.1 | FF | 9/A10.20 | 10/A10.20 | 11/A10.20 | X | | |
| 122C | 6' - 4" | 5' - 0" | IGU | | W-CW.1 | FF | 9/A10.20 | 10/A10.20 | 11/A10.20 | X | | |
| 122D | 6' - 4" | 5' - 0" | IGU | | W-CW.1 | FF | 9/A10.20 | 10/A10.20 | 11/A10.20 | X | | |
| 122E | 6' - 4" | 5' - 0" | IGU | | W-CW.1 | FF | 9/A10.20 | 10/A10.20 | 11/A10.20 | X | | |
| 123 | 6' - 4" | 5' - 0" | IGU | | W-CW.1 | FF | 9/A10.20 | 10/A10.20 | 11/A10.20 | X | | |
| 124A | 6' - 4" | 5' - 0" | IGU | | W-CW.1 | FF | 9/A10.20 | 10/A10.20 | 11/A10.20 | X | | |
| 124B | 6' - 4" | 5' - 0" | IGU | | W-CW.1 | FF | 9/A10.20 | 10/A10.20 | 11/A10.20 | X | | |
| 129A | 6' - 4" | 5' - 0" | IGU | | W-CW.1 | FF | 9/A10.20 | 10/A10.20 | 11/A10.20 | X | | |
| 129B | 6' - 4" | 5' - 0" | IGU | | W-CW.1 | FF | 9/A10.20 | 10/A10.20 | 11/A10.20 | X | | |
| 133 | 6' - 4" | 5' - 0" | IGU | | W-CW.1 | FF | 9/A10.20 | 10/A10.20 | 11/A10.20 | X | | |
| 134A | 6' - 4" | 5' - 0" | IGU | | W-CW.1 | FF | 9/A10.20 | 10/A10.20 | 11/A10.20 | X | | |
| 134B | 6' - 4" | 5' - 0" | IGU | | W-CW.1 | FF | 9/A10.20 | 10/A10.20 | 11/A10.20 | X | | |
| 135 | 6' - 4" | 5' - 0" | IGU | | W-CW.1 | FF | 9/A10.20 | 10/A10.20 | 11/A10.20 | X | | |

**GENERAL:**

1. Safety glazing shall be provided as required by the 2012 IBC by each subcontractor providing any glazing. It is the responsibility of each subcontractor to determine the safety glazing requirements.

**NOTES:**

1. Verify exact size with provided opening sizes. Unit is self supporting.

**ABBREVIATIONS:**

| | |
|---|---|
| FF | FACTORY FINISH |
| IGU | INSULATED GLAZING UNIT |
| ITGU | INSULATED TEMPERED GLAZING UNIT |
| PT | PAINT FINISH |
| SG | SAFETY GLAZING |

# ROOM FINISH SCHEDULE

| NO. | Room Name | Floor Finish | Base | WALLS North | South | East | West | CEILINGS Finish | Notes |
|---|---|---|---|---|---|---|---|---|---|
| 100 | VEST. | EM | WB | PT/WW | PT/WW | PT/WW | PT | WC/TF | |
| 101 | RECEPTION | TC | WB | PT/WW | PT/WW | PT/WW | P3 | ATE/GWB/PT | |
| 101A | ADMIN. ASST. | TC | RB | PT | P1 | PT | PT | ATE | |
| 102 | COPY/WORK RM | TC | RB | PT | PT | PT | PT | ATE | |
| 103 | MICA OPEN OFFICE | TC | RB | PT | PT | PT | P1 | ATE | |
| 104 | R.S. | TC | RB | PT | PT | P1 | PT | ATE | |
| 105 | AREA MANAGER | TC | RB | P1 | PT | PT | PT | ATE | |
| 106 | R.S. | TC | RB | PT | P1 | PT | PT | ATE | |
| 107 | R.S. | TC | RB | PT | P1 | PT | PT | ATE | |
| 108 | OFFICE | TC | RB | PT | P1 | PT | PT | ATE | |
| 109 | MICA FILES | TC | RB | PT | PT | PT | PT | ATE | |
| 110 | MEETING ROOM | TC | WB | PT/WW | PT/WW | P2/WW | PT/WW | ATE/GWB/PT | |
| 111A | HALL | TC | RB | PT | PT/CT | PT | PT | ATE | |
| 111B | HALL | TC | RB | PT | PT | PT | PT | ATE | |
| 112 | TECH SERVICES | TC | RB | PT | PT | P1 | PT | ATE | |
| 113 | NORTH OPS | TC | RB | PT | PT | PT | P1 | ATE | |
| 114 | TECH / G.I.S. OFFICE | TC | RB | PT | PT | P1 | PT | ATE | |
| 115 | FISCAL FILES | TC | RB | PT | PT | PT | PT | ATE | |
| 116 | FISCAL OFFICE | TC | RB | PT | P1 | PT | PT | ATE | |
| 117 | MENS RR | CT-1 | CT-2 | EP | CT-2/EP | CT-2/EP | CT-2/EP | AVF | |
| 118 | WMS. RR | CT-1 | CT-2 | CT-2/EP | EP | CT-2/EP | CT-2/EP | AVF | |
| 119 | JAN. | CSS | RB | PT/FRP | PT | PT | PT/FRP | GWB/PT | |
| 120 | STOR. | TC | RB | PT | PT | PT | PT | ATE | |
| 121 | CORRIDOR | TC | RB/WB | PT | PT | PT | PT | ATE/GWB/PT | |
| 121A | CORRIDOR | TC | RB | PT | PT | PT | PT | ATE/GWB/PT | |
| 121B | CORRIDOR | TC | RB | PT | PT | PT | PT | ATE/GWB/PT | |
| 122 | ARCHIVE | CSS | RB | PT | PT | PT | PT | ATE | |
| 123 | MUD ROOM | LVT | RB | PT | PT | PT | PT | ATE | |
| 124 | BREAK RM/ KITCHEN | LVT | RB | PT | PT | P1 | PT | ATE/GWB/PT | |
| 125 | ELECTRICAL | CSS | RB | PT/FTP | PT/FTP | PT/FTP | PT/FTP | OPEN/GWB/PT | |
| 126 | MECH | CSS | RB | PT/FTP | PT/FTP | PT/FTP | PT/FTP | GWB/PT | |
| 127A | MENS LOCKER | CT-1 | CT-1 | EP | EP | CT-2/EP | EP | AVF | |
| 127B | SHOWER | CT-1 | CT-1 | EP | EP | EP | EP | AVF | |
| 128A | WMS. LOCKER | CT-1 | CT-1 | EP | EP | EP | CT-2/EP | AVF | |
| 128B | SHOWER | CT-1 | CT-1 | EP | EP | EP | EP | AVF | |
| 129 | EQUIP. SETUP | TC | RB | PT | PT | PT | PT | ATE | |
| 130 | SERVER | LVT/AFS | RB | PT/FTP | PT/FTP | PT/FTP | PT/FTP | ATE | COORDINATE FTP LOCATION, SIZE, & HEIGHT W/ E4.01 |
| 131 | CONF. | TC | RB | PT | P1 | PT | PT | ATE | |
| 132 | CONF. LRG | TC | RB | PT | PT | P1 | PT | ATE | |
| 133 | I.T. MANAGER | TC | RB | P1 | PT | PT | PT | ATE | |
| 134 | I.T. OPEN OFFICE | TC | RB | PT | PT | PT | PT | ATE | |
| 135 | EQUIP.STOR. | CSS | RB | PT | PT | PT | PT | ATE | |
| 136 | HALL | LVT | RB | PT | PT | PT | PT | ATE/GWB/PT | |
| 137 | HALL | TC | RB | PT | PT | PT | PT | ATE/GWB/PT | |
| 200 | MECHANICAL MEZZANINE | -- | FT | FT | FT | FT | FT | FT | |

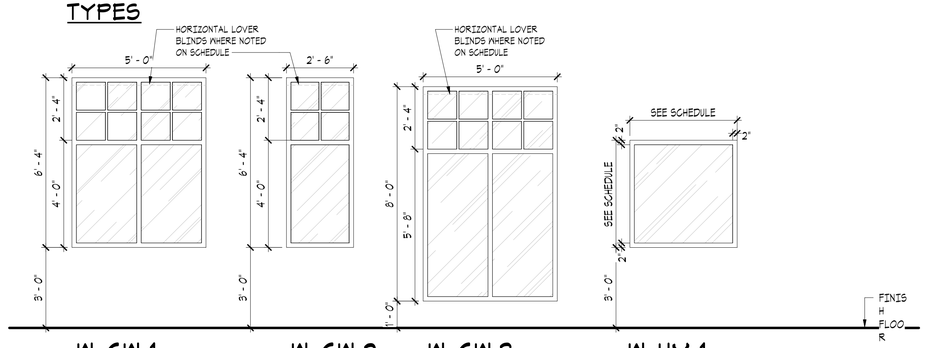
# FINISH LEGEND

| ITEM | MANUFACTURER | COLOR / FINISH |
|---|---|---|
| **FLOORING** | | |
| TC | MANNINGTON | PATTERN: MOSO, COLOR: ACORN 84334 |
| | | INSTALLATION: HORIZONTAL BRICK ASHLAR |
| EM | MANNINGTON | PATTERN: RUFFIAN II, COLOR: TAN TETONS 8484 |
| RB | JOHNSONITE | INSTALLATION: MONOLITHIC |
| | | BURNT UMBER #63 |
| **PAINT** | | |
| PT / EP | SHERWIN WILLIAMS | SW 6106, KILIM BEIGE |
| P1 | SHERWIN WILLIAMS | SW 9112, SONG THRUSH |
| P2 | SHERWIN WILLIAMS | SW9127, AT EASE SOLDIER |
| P3 | SHERWIN WILLIAMS | SW 9089, LLAMA WOOL |
| **TILE** | | |
| CT-1 | AMERICAN OLEAN | FUSION COTTO CF12 |
| CT-2 | MARAZZI | LOUNGE 14 COSMO |

# ABBREVIATIONS

| ABBREVIATIONS: | DESCRIPTIONS | SPECIFICATION SECTION | NOTES |
|---|---|---|---|
| AFS | ACCESS FLOORING SYSTEM | 096900.AFS | |
| ATE | ACOUSTICAL PANEL CEILING - TEGULAR | 095113.ACT- | |
| EDGE | | 1 | |
| AVF | ACOUSTICAL PANEL CEILING - VINYL FACED | 095113.ACT- | |
| CSS | CONCRETE SLAB SEALER | 2 | |
| CT | PORCELAIN TILE | 033000.CSS | |
| EM | ENTRY MAT | 093013.CT | |
| EP | EPOXY PAINT | 096813.EM | |
| FRP | FIBER REINFORCED PLASTIC PANELING | 099123.EP | |
| FT | FIRE TAPE | 066400.FRP | |
| FTP | FIRE TREATED PLYWOOD | 092900.FT | |
| GWB | 5/8" TYPE "X" GYPSUM WALL BOARD | 061000.FTP | |
| PT | PAINT | 092900.X58 | |
| RB | RUBBER BASE | 099123.PT | |
| TC | TILE CARPETING | 096513.RB4 | |
| TF | TRANSPARENT FINISH | 096813.TC | |
| LVT | SOLID VINYL FLOOR TILE | 099123.TF | |
| WB | WOOD BASE | 096519.LVT | |
| WC | WOOD CEILING | 062023.WB | |
| WW | WOOD WAINSCOT | 062013.WC | |
| | | 062023.WW | |

## WINDOW TYPES



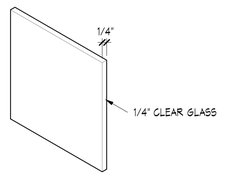

**W-CW.1** CLAD WOOD

**W-CW.2** CLAD WOOD

**W-CW.3** CLAD WOOD

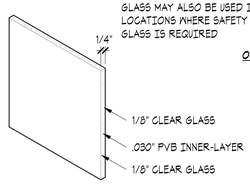
**W-HM.1** HOLLOW METAL

*NOTE: SEE SCHEDULES FOR FRAME MATERIAL, FINISH, DEPTH, AND DOOR OPENING SIZE. SEE PLANS & ELEVATIONS FOR FRAME OPENING SIZE.

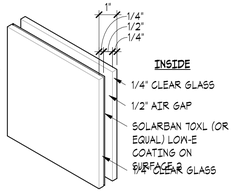



INTERIOR TYPICAL GLAZING (CG)

NOTE: IN LIEU OF LAMINATED SAFETY GLASS, TEMPERED GLASS MAY ALSO BE USED IN LOCATIONS WHERE SAFETY GLASS IS REQUIRED



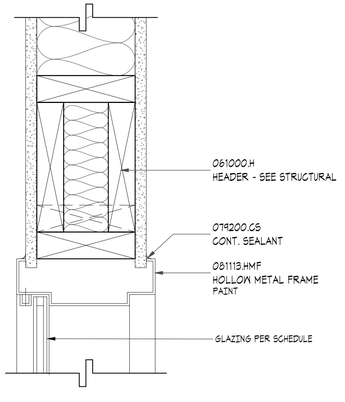

INTERIOR SAFETY GLAZING (SG)



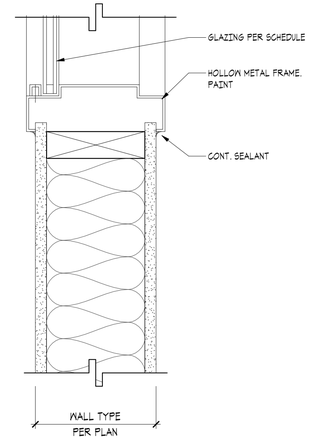

EXTERIOR INSULATING GLASS UNIT (IGU)

VLT = 64%
REFLECTANCE = 12%
SHGC = 0.27
U-VALUE = 0.28

(ITGU) WHERE REQUIRED TO BE TEMPERED




2 HM HEAD DETAIL
SCALE: 3" = 1'-0"




3 HM SILL / JAMB SIM.
SCALE: 3" = 1'-0"

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DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE
3284 INDUSTRIAL LOOP, COEUR D'ALENE, IDAHO 83815

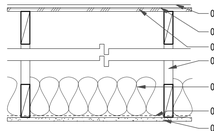
WINDOW / ROOM FINISH SCHEDULES

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | SJR/GMJ |
| DRAWN BY | RF / RM |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | SJR |
| REVISION | RECORD SET |
| SHEET NO. | |

A9.02

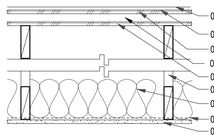
# ROOF TYPES

RW.A



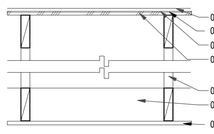
| | |
|---|---|
| 074113-16.MR | PRE-FINISHED METAL ROOFING |
| 074113.F30 | 30# FELT |
| 061600.P12 | PLYWOOD SHEATHING |
| 061753.RT | WOOD ROOF TRUSSES AT 24" O.C. (OR 061000.J64 @ OUTLOOKERS) |
| 072100.45B | R-45 BLOWN IN INSULATION |
| 072100.VR | VAPOR RETARDER |
| 092900.X58 | 5/8" TYPE "X" GWB |

RW.AO



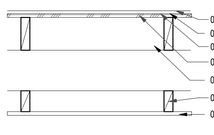
| | |
|---|---|
| 074113-16.MR | PRE-FINISHED METAL ROOFING |
| 074113.F30 | 30# FELT |
| 061600.P12 | PLYWOOD SHEATHING |
| 061753.RTO | WOOD ROOFTRUSS OVERBUILD @ 24" O.C. |
| 061600.P58 | PLYWOOD SHEATHING 5/8" |
| 061753.RT | WOOD ROOF TRUSSES AT 24" O.C. |
| 072100.45B | R-45 BLOWN IN INSULATION |
| 072100.VR | VAPOR RETARDER |
| 092900.X58 | 5/8" TYPE "X" GWB |

RW.B



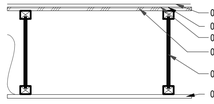
| | |
|---|---|
| 074113-16.MR | PRE-FINISHED METAL ROOFING |
| 074113.SU | SELF ADHERING SHEET UNDERLAYMENT |
| 074113.F30 | 30# FELT |
| 061600.P12 | PLYWOOD SHEATHING |
| 061753.RT | WOOD ROOF TRUSSES AT 24" O.C. |
| 061000.F44 | 2x4 FRAMING AT 24" O.C. |
| 074213.MS | PRE-FIN METAL SOFFIT PANELS |

RW.C



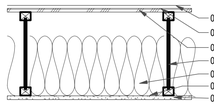
| | |
|---|---|
| 074113-16.MR | PRE-FINISHED METAL ROOFING |
| 074113.SU | SELF ADHERED SHEET UNDERLAYMENT |
| 074113.F30 | 30# FELT |
| 061600.P12 | PLYWOOD SHEATHING |
| 061000.J64 | 2x6 JOISTS AT 24" O.C. |
| 061000.F44 | 2x4 FRAMING AT 24" O.C. |
| 074213.MS | PRE-FIN METAL SOFFIT PANELS |

RW.D



| | |
|---|---|
| 074113-16.MR | PRE-FINISHED METAL ROOFING |
| 074113.SU | SELF ADHERED SHEET UNDERLAYMENT |
| 074113.F30 | 30# FELT |
| 061600.P12 | PLYWOOD SHEATHING |
| 061000.TJI | WOOD I JOISTS AT 16" O.C. |
| 062013.WS | WOOD SOFFIT |

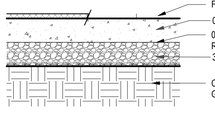
RW.E



| | |
|---|---|
| 074113-16.MR | PRE-FINISHED METAL ROOFING |
| 074113.F30 | 30# FELT |
| 061600.P12 | PLYWOOD SHEATHING |
| 061000.TJI | WOOD I JOISTS AT 16" O.C. |
| 072100.45 | R-45 BATT INSULATION |
| 072100.VR | VAPOR RETARDER |
| 092900.X58 | 5/8" TYPE "X" GWB |

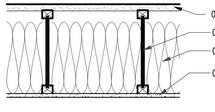
# FLOOR TYPES

FC.A



| | |
|---|---|
| | FLOOR FINISH PER SCHED. |
| 033000.CS4 | CONCRETE SLAB 4" |
| 033000.VR | VAPOR RETARDER |
| 312000.BC4 | 4" BASE COURSE |
| | COMPACTED SUB-GRADE |

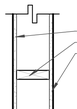
FW.A



| | |
|---|---|
| 061600.P12 | PLYWOOD SHEATHING |
| 061000.TJI | WOOD I JOISTS AT 16" O.C. |
| 072100.38 | R-38 BATT INSULATION |
| 092900.X58 | 5/8" TYPE "X" GWB |

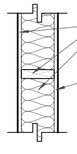
# WALL TYPES

WW6.A — INTERIOR WALL CONSTRUCTION
STC: N/A
RATING: N/A



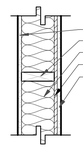
| | |
|---|---|
| 072100.R10 | 2" RIGID INSUL R-10 MIN |
| 033000.CF | CONCRETE FOUNDATION |
| 071416.CAD | |

WW6.B — INTERIOR WALL CONSTRUCTION
STC: N/A
RATING: N/A



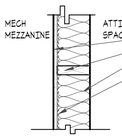
| | |
|---|---|
| 092900.X58 | 5/8" TYPE "X" GWB |
| 061000.S66 | 2x6 STUDS AT 16" O.C. |
| 072100.SAI | SOUND ATTENUATION INSULATIONOR |
| 072100.21 | R-21 BATT INSULATION AT MECHANICAL MEZZANINE 200 |
| 092900.X58 | 5/8" TYPE "X" GWB |

WW6.BP — INTERIOR WALL CONSTRUCTION
STC: N/A
RATING: N/A



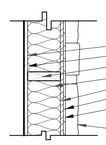
| | |
|---|---|
| 092900.X58 | 5/8" TYPE "X" GWB |
| 061000.S66 | 2x6 STUDS AT 16" O.C. |
| 072100.SAI | SOUND ATTENUATION INSULATION |
| 061000.P12 | PLYWOOD SHEATHING |
| 092900.X58 | 5/8" TYPE "X" GWB |

WW6.C — EXTERIOR WALL CONSTRUCTION
STC: N/A
RATING: N/A




| | |
|---|---|
| 092900.X58 | 5/8" TYPE "X" GWB |
| 061000.S66 | 2x6 STUDS AT 16" O.C. |
| 072100.SAI | SOUND ATTENUATION INSULATION |
| 072100.VR | VAPOR RETARDER |

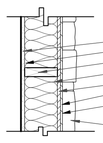
WW6.D — EXTERIOR WALL CONSTRUCTION
STC: N/A
RATING: N/A
WALL: R = 24.55, U = 0.41



| | |
|---|---|
| 092900.X58 | 5/8" TYPE "X" GWB |
| 072100.VR | VAPOR RETARDER |
| 061000.S66 | 2x6 STUDS AT 16" O.C. |
| 072100.21 | R-21 BATT INSULATION |
| 061600.P12 | PLYWOOD SHEATHING |
| 072500 | COMMERCIAL BUILDING WRAP |
| 47200.SFL | SELF-FURRING LATH |
| 47200.MB | MORTAR BED |
| 047200.CSV | CAST STONE VENEER |
| | EXTERIOR AIR FILM |

| | |
|---|---|
| INTERIOR AIR FILM | R - 0.68 |
| 5/8" TYPE "X" GWB | R - 0.56 |
| VAPOR RETARDER | R - 0 |
| 2x6 STUDS AT 16" O.C. | R - 0 |
| R-21 BATT INSULATION | R - 21 |
| PLYWOOD SHEATHING | R - 0.62 |
| COMMERCIAL BUILDING WRAP | R - 0.12 |
| SELF-FURRING LATH | R - 0 |
| MORTAR BED | R - 0 |
| CAST STONE VENEER | R - 0.17 |
| EXTERIOR AIR FILM | R - 0.17 |

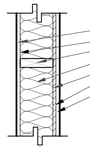
WW6.DP — EXTERIOR WALL CONSTRUCTION
STC: N/A
RATING: 1HR PER IBC 2012 TABLE 721.1(2) ITEMS NO. 15-1.13
WALL: R = 24.98, U = 0.41



| | |
|---|---|
| 092900.X58 | 5/8" TYPE "X" GWB |
| 072100.VR | VAPOR RETARDER |
| 061000.S66 | 2x6 STUDS AT 16" O.C. |
| 072100.21 | R-21 BATT INSULATION |
| 092900.S58 | 5/8" GLASS MAT FACED GYP. SHEATHING |
| 072500 | COMMERCIAL BUILDING WRAP |
| 47200.SFL | SELF-FURRING LATH |
| 47200.MB | MORTAR BED |
| 047200.CSV | CAST STONE VENEER |
| | INTERIOR AIR FILM |

| | |
|---|---|
| EXTERIOR AIR FILM | R - 0.68 |
| 5/8" TYPE "X" GWB | R - 0.56 |
| VAPOR RETARDER | R - 0 |
| 2x6 STUDS AT 16" O.C. | R - 0 |
| R-21 BATT INSULATION | R - 21 |
| 5/8" GLASS MAT FACED GYP. SHEATHING | R - 0.56 |
| COMMERCIAL BUILDING WRAP | R - 0.12 |
| SELF-FURRING LATH | R - 0 |
| MORTAR BED | R - 0.10 |
| CAST STONE VENEER | R - 1.60 (R-0.4/INCH) |
| INTERIOR AIR FILM | R - O.17 |

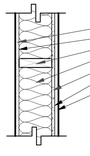
WW6.E — EXTERIOR WALL CONSTRUCTION
STC: N/A
RATING: N/A
WALL: R = 23.46, U = 0.42



| | |
|---|---|
| 092900.X58 | 5/8" TYPE "X" GWB |
| 072100.VR | VAPOR RETARDER |
| 061000.S66 | 2x6 STUDS AT 16" O.C. |
| 072100.21 | R-21 BATT INSULATION |
| 061600.P12 | PLYWOOD SHEATHING |
| 072500 | COMMERCIAL BLDG WRAP |
| 074646.FE | FIBER CEMENT LAP SIDING |
| | INTERIOR AIR FILM |

| | |
|---|---|
| EXTERIOR AIR FILM | R - 0.68 |
| 5/8" TYPE "X" GWB | R - 0.56 |
| VAPOR RETARDER | R - 0 |
| 2x6 STUDS AT 16" O.C. | R - 0 |
| R-21 BATT INSULATION | R - 21 |
| PLYWOOD SHEATHING | R - 0.62 |
| COMMERCIAL BLDG WRAP | R - 0.12 |
| FIBER CEMENT LAP SIDING | R - 0.81 |
| INTERIOR AIR FILM | R - 0.17 |

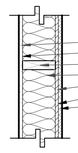
WW6.EP — EXTERIOR WALL CONSTRUCTION
STC: N/A
RATING: 1HR PER IBC 2012 TABLE 721.1(2) ITEM NO.15-1.13
WALL: R = 23.90, U = 0.42



| | |
|---|---|
| 092900.X58 | 5/8" TYPE "X" GWB |
| 072100.VR | VAPOR RETARDER |
| 061000.S66 | 2x6 STUDS AT 16" O.C. |
| 072100.21 | R-21 BATT INSULATION |
| 092900.S58 | 5/8" GLASS MAT FACED GYP. SHEATHING |
| 072500 | COMMERCIAL BUILDING WRAP |
| 062013.FC | FIBER CEMENT LAP SIDING |
| | INTERIOR AIR FILM |

| | |
|---|---|
| EXTERIOR AIR FILM | R - 0.68 |
| 5/8" TYPE "X" GWB | R - 0.56 |
| VAPOR RETARDER | R - 0 |
| 2x6 STUDS AT 16" O.C. | R - 0 |
| R-21 BATT INSULATION | R - 21 |
| 5/8" GLASS MAT FACED GYP. SHEATHING | R - 0.56 |
| COMMERCIAL BUILDING WRAP | R - 0.12 |
| FIBER CEMENT LAP SIDING | R - 0.81 |
| INTERIOR AIR FILM | R - 0.17 |

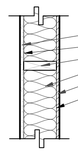
WW6.F — EXTERIOR WALL CONSTRUCTION
STC: N/A
RATING: N/A
WALL: R = 28.15, U = 0.36



| | |
|---|---|
| 092900.X58 | 5/8" TYPE "X" GWB |
| 072100.VR | VAPOR RETARDER |
| 061000.S66 | 2x6 STUDS AT 16" O.C. |
| 072100.21 | R-21 BATT INSULATION |
| 061600.P12 | PLYWOOD SHEATHING |
| 072500 | COMMERCIAL BUILDING WRAP |
| 072413.FSI | EXTERIOR INSULATION AND FINISH SYSTEM (EIFS) 1 1/2" |
| | INTERIOR AIR FILM |

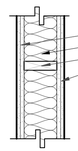
| | |
|---|---|
| EXTERIOR AIR FILM | R - 0.68 |
| 5/8" TYPE "X" GWB | R - 0.56 |
| VAPOR RETARDER | R - 0 |
| 2x6 STUDS AT 16" O.C. | R - 0 |
| R-21 BATT INSULATION | R - 21 |
| PLYWOOD SHEATHING | R - 0.62 |
| COMMERCIAL BUILDING WRAP | R - 0.12 |
| EXTERIOR INSULATION AND FINISH SYSTEM (CONT.) | R - 5 |
| INTERIOR AIR FILM | R - 0.17 |

WW6.G — EXTERIOR WALL CONSTRUCTION
STC: N/A
RATING: N/A



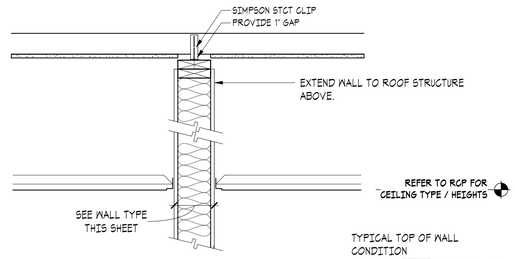
| | |
|---|---|
| 092900.X58 | 5/8" TYPE "X" GWB |
| 072100.VR | VAPOR RETARDER |
| 061000.S66 | 2x6 STUDS AT 16" O.C. |
| 072100.21 | R-21 BATT INSULATION |
| 061600.P12 | PLYWOOD SHEATHING |
| 072723.FAB | FLUID APPLIED BARRIER |

WW6.H — INTERIOR WALL CONSTRUCTION
STC: N/A
RATING: 2HR PER IBC 2012 TABLE 721.1(2) ITEM NO. 15-1.13



| | |
|---|---|
| 092900.258 | 2 LAYERS 5/8" TYPE "X" GWB |
| 072100.MW | 5 1/2" MINERAL WOOL INSULATION |
| 061000.S66 | 2x6 STUDS AT 16" O.C. |
| 092900.258 | 2 LAYERS 5/8" TYPE "X" GWB |

## TYPICAL TOP OF WALL CONDITIONS (U.N.O.)




TYPICAL TOP OF WALL CONDITION FOR ALL (WW# X) TYPE WALLS U.N.O.
NOTE CEILING HEIGHTS ON EITHER SIDE OF WALL MAY VARY. VERIFY CEILING HEIGHTS WITH REFLECTED CEILING PLANS.

* NOTE: SEE BUILDING SECTIONS, WALL SECTIONS, EXTERIOR ELEVATIONS, INTERIOR ELEVATIONS & DETAILS FOR FLOOR, WALL & ROOF CONSTRUCTION TRANSITIONS.

# MATERIALS KEYING LEGEND

| Keynote No. | Keynote Description |
|---|---|
| 033000.CF | CONCRETE FOUNDATION |
| 033000.CS4 | CONCRETE SLAB 4" |
| 047200.CSV | CAST STONE VENEER |
| 061000.F44 | 2x4 FRAMING AT 24" O.C. |
| 061000.S66 | 2x6 STUDS AT 16" O.C. |
| 061000.TJI | WOOD I JOISTS AT 16" O.C. |
| 061600.P12 | PLYWOOD SHEATHING |
| 061600.P58 | PLYWOOD SHEATHING 5/8" |
| 061753.RT | WOOD ROOF TRUSSES AT 24" O.C. |
| 072100.21 | R-21 BATT INSULATION |
| 072100.38 | R-38 BATT INSULATION |
| 072100.45 | R-45 BATT INSULATION |
| 072100.45B | R-45 BLOWN IN INSULATION |
| 072100.R10 | 2" RIGID INSUL R-10 MIN |
| 072100.SAI | SOUND ATTENUATION INSULATION |
| 072100.VR | VAPOR RETARDER |
| 074113-16.MR | PRE-FINISHED METAL ROOFING |
| 074113.F30 | 30# FELT |
| 092900.258 | 2 LAYERS 5/8" TYPE "X" GWB |
| 092900.S58 | 5/8" GLASS MAT FACED GYP. SHEATHING |
| 092900.X58 | 5/8" TYPE "X" GWB |
| 312000.BC4 | 4" BASE COURSE |

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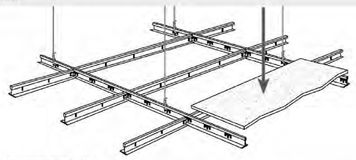
IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500
DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE
3284 INDUSTRIAL LOOP, COEUR D'ALENE, IDAHO 83815
ASSEMBLY TYPES

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | SJR/GMJ |
| DRAWN BY | RF / RM |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | SJR |
| REVISION | RECORD SET |
| SHEET NO. | A10.01 |

NWCB Technical Document 12/13
SUSPENDED CEILINGS 401
Suspension Systems for Acoustical Lay-in Ceilings
Seismic Design Categories D, E & F

This document has been revised based on current Building Code standards. In all buildings, other than structures classified as essential facilities, **suspended ceilings installed in accordance with the prescriptive provisions of the 401 document are deemed to comply with the current building code interpretation.**

This document provides the IBC-2012 referenced standards for the installation of suspension systems for acoustical lay-in ceilings. Incorporation of this document will provide a more uniform standard for installation and inspection. This document is designed to accomplish the intent of the International Building Code (IBC) with regard to the requirements for seismic design category D, E and F for suspended ceilings and related items. Unless supported by engineering, the suspension system shall be installed per these requirements and those of the referenced documents. Manufacturers' recommendations should be followed where applicable.



## General Recommendations

- Referenced sources per hierarchy: 2012 International Building Code (IBC), American Society of Civil Engineers (ASCE 7-10), American Society of Testing Materials (ASTM C 635, ASTM C 636, ASTM E 580/E 580M), and Ceilings and Interior Systems Construction Association (CISCA).
- Partitions that are tied to the ceiling and all partitions greater than 6 feet in height shall be laterally braced to the structure. Bracing shall be independent of the ceiling splay bracing system. *Source: ASCE 7-10 Section 13.5.8.1*
- For further information on bracing of non-load bearing partitions refer to NWCB Technical Document #200-501.
- All main beams are to be Heavy Duty (HD). *Source: ASTM E580 Section 5.1.1*
- Ceilings less than or equal to 144 ft² and surrounded by walls connected to the structure above are exempt from the seismic design requirements. *Source ASTM E580 Section 1.4*
- These recommendations are intended for suspended ceilings and related components in areas that require resistance to the effects of earthquake motions. *Source: ASTM E580 Section 3.2*
- All wire ties are to be three tight turns around itself within three inches. Twelve gage Hanger wire spaced 4 foot on center (figure 1). *Source: ASTM C636 Section 2.3.4*
- Changes in ceiling planes will require positive bracing. *Source: ASTM E580 Section 5.2.8.6*

figure 1



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figure 2
Lateral force Bracing

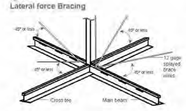



figure 3
Maximum Recommended Lengths for Vertical Struts

| EMT CONDUIT | |
|---|---|
| ½" EMT conduit | up to 5'10" |
| ¾" EMT conduit | up to 7'8" |
| 1" EMT conduit | up to 9'9" |
| **METAL STUDS** | |
| Single 1⅝" metal stud (20 gage) | up to 12'0" |
| Back-to-back 1⅝" metal stud (20 gage) | up to 15'0" |
| Single 2½" metal stud (20 gage) | up to 13'6" |
| Back-to-back 2½" metal stud (25 gage) | up to 15'0" |

*Source: Fairfield Building Department*
*Note: Plenum areas greater then 15'0" will require engineering calculations.*

figure 4a
Attached Wall Molding Requirements

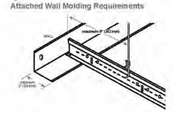
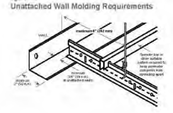



figure 4b
Unattached Wall Molding Requirements




## Lateral Force Bracing *(figures 2 and 3)*

- Ceilings constructed of screw-or-nail-attached gypsum board on one level that are surrounded by and connected to walls or soffits that are laterally braced to the structure above are exempt from seismic design requirements. *Source: ASCE 7-10 Section 13.5.6.2.2 Exception 2, ASTM E580 Section 1.7*
- Ceiling areas of 1000 ft² or less shall be exempt from later force bracing requirements. *Source: ASTM E580 Section 1.6*
- Lateral force bracing is the use of vertical struts (compression posts) and splay wires (see figure 2).
- Lateral Force Bracing shall be 12 feet on center (maximum) and begin no farther than 6 feet from walls. *Source: ASTM E580 Section 5.2.8.2*
- Seismic splay wires are to be four 12 gage wires attached to the main beam. Wires are arrayed 90° from each other and at an angle not exceeding 45° from the plane of the ceiling. *Source: ASTM E580 Section 5.2.8.2*
- Seismic splay wires shall be attached to the grid and to the structure in such a manner that they can support a design load of not less than 200 pounds or the actual design load, with a safety factor of 2, whichever is greater (figure 6b). *Source: CISCA zones 3-4*
- Power Actuated Fasteners (PAF's), when used for seismic application as part of the prescriptive path in Seismic Design Categories D, E and F, shall have an ICC-ES approval for seismic applications and shall require "special inspection" irrespective of the type of occupancy category the structure is in. PAF anchors for kicker wires (splayed wires installed for purposes other than seismic restraint) are exempt from this requirement. *Source: State of Oregon, Building Codes Division*
- Splay wires are to be within 2 inches of the connection of the vertical strut to suspended ceiling. *Source: ASTM E580 Section 5.2.8.2*
- Rigid bracing may be used in lieu of splay wires. *Source: ASTM E580 Section 5.2.8.4*
- Ceilings with plenums less than 12 inches to structure are not required to have lateral force bracing. *Source: Portland Building Department*
- Vertical struts must be positively attached to the suspension systems and the structure above. *Source: ASTM E580 Section 5.2.8.2*
- The vertical strut may be EMT conduit, metal studs or a proprietary compression post (see figure 3).

## Wall Moldings *(figures 4a and 4b)*

- Wall moldings (perimeter closure angles) are required to have a horizontal flange 2 inches wide. One end of the ceiling grid shall be attached to the wall molding, the other end shall have a ¾ inch clearance from the wall and free to slide. *Source: ASTM E580 Section 5.2.2, Section 5.2.3*
- Where substantiating documentation has been provided to the local jurisdiction, perimeter clips may be used to satisfy the requirements for the 2-inch closure angle. *Source: State of Oregon, Building Codes Division*
- The grid shall be attached at two adjacent walls (pop rivets or approved method). Soffits extending to a point at least level with the bottom plane of the grid and independently supported and laterally braced to the structure above are deemed to be



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figure 5a

figure 5b - Counter/sloping

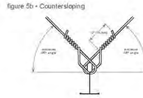



figure 6a
Vertical hanger wire attachment

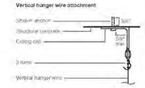
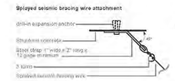



figure 6b
Splayed seismic bracing wire attachment




equivalent to walls. *Source: State of Oregon, Building Codes Division, ASTM E580 Section 5.2.3, Section 5.2.8.1*

## Spreader Bars *(figure 4b)*

- Terminal ends of main runners and cross members shall be tied together or have some other approved means to prevent their spreading. Stabilizer bars, cross tees or other means to prevent spreading shall occur within 8 in. of each wall. *Source: ASTM E580 Section 5.2.4*
- Spreader bars are not required at perimeters where runners are attached directly to closure angles.
- Spreader bars are not required if a 90 degree intersecting cross or main is within 8 inches of the perimeter wall.
- Where substantiating documentation has been provided to the local jurisdiction, perimeter clips may be used to satisfy the requirements for spreader bars. *Source: State of Oregon, Building Codes Division*

## Hanger (Suspension) Wires *(figures 5a and 5b)*

- Hanger and perimeter wires must be plumb within 1 in 6 unless (figure 5a) counter sloping wires are provided (figure 5b). *Source: ASTM C636 Section 2.1.4*
- Hanger wires shall be 12 gage and spaced 4 feet on center or 10 gage spaced 5 feet on center. *Source: ASTM C636 Section 2.1*
- Any connection device at the supporting construction shall be capable of carrying not less than 100 pounds. *Source: CISCA zones 3-4*
- Powder Actuated Fasteners (PAFs) are an approved method of attachment for hanger wires. *Source: State of Oregon, Building Codes Division*
- Terminal ends of each main beam and cross tee must be supported within 8 inches of each wall with a perimeter wire (see figure 4 & 5 a). *Source: ASTM E580 Section 5.2.6*
- Wires shall not attach to or bend around interfering material or equipment. A trapeze or equivalent device shall be used where obstructions preclude direct suspension. Trapeze suspensions shall be sized to resist the dead load and lateral forces appropriate for the seismic category. *Source: ASTM E580 Section 5.7.1.4*

## Electrical fixtures

- Light fixtures weighing less than 10 pounds shall have one 12 gage hanger wire connected from the fixture to the structure above. This wire may be slack. *Source: ASTM E580 Section 5.3.4*
- Light fixtures weighing more than 10 pounds and less than 56 lbs. shall have two 12 gage wires attached at opposing corners of the light fixture to the structure above. These wires may be slack. *Source: ASTM E580 Section 5.3.5*
- Light Fixtures weighing more than 56 lbs. shall be supported directly from the structure above by approved hangers. *Source: ASTM E580 Section 5.3.6*
- Pendant mounted fixtures shall be directly supported from the structure above using a 9 gage wire or an approved alternate support without using the ceiling suspension system for direct support. *Source: ASTM E580 Section 5.3.7*
- Tandem fixtures may utilize common wires.

## Mechanical Services

- Terminals or services weighing less than 20 lbs. shall be positively attached to the ceiling suspension main runners or to cross runners that have the same carrying capacity as the main runners. *Source: ASTM E580 Section 5.4.1*



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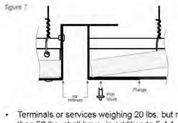
figure 7




- Terminals or services weighing 20 lbs. but not more than 56 lbs. shall have, in addition to 5.4.1, two 12 gage wires connecting them to the ceiling system hangers or the structure above. These wires may be slack. *Source: ASTM E580 Section 5.4.2*
- Terminals or services weighing more than 56 lbs. shall be supported directly from the structure above by approved hangers. *Source: ASTM E580 Section 5.4.3*

## Seismic Separation Joints *(figure 7)*

- For ceiling areas exceeding 2,500 square feet, a seismic separation joint or full height wall partition that breaks the ceiling shall be provided unless analyses are performed of the ceilings bracing system, closure angles and penetrations to provide sufficient clearance. *Source: ASCE 7-10 Section 13.5.8.2.2 b*
- This layout and location of the seismic separation joint shall be per the designer of record and noted on the plans. If a seismic separation joint is required by the designer, the designer may use the generic joint detailed in this document or a proprietary joint. The amount of free movement (gap design) shall be a minimum of ¾ inch. *Source: State of Oregon, Building Codes Division*
- In lieu of seismic separation joints, the ceiling may be divided into areas less than 2500 square feet by the use of partitions or soffits as follows: partitions shall extend a minimum of 6 inches above the level of the plane of the grid and shall be independently braced to the structure above. Soffits shall extend to a point at least level with the bottom plane of the grid and shall be independently supported and laterally braced to the structure above. *Source: State of Oregon Building Codes Division, ASTM E580 Section 5.2.9.1*

## Sprinklers

- For ceilings without rigid bracing, sprinkler head penetrations shall have a 2 inch oversize ring, sleeve or adapter through the ceiling tile to allow free movement of at least 1 inch in all horizontal directions. Flexible head design that can accommodate 1 inch free movement shall be permitted as an alternate. *Source, ASTM E580 Section 5.2.8.5*

## Glossary for this Document *(regional terminology may vary)*

**CROSS TEES** The cross member that interlock with the main beams, also known as cross runners or cross T-bars.

**DIFFUSER** A circular or rectangular metal grill used for the passage of air from a ducted system.

**ESSENTIAL SERVICE BUILDINGS** Any buildings designed to be used by public agencies as a fire station, police station, emergency operations center, State Patrol office, sheriff's office, or emergency communication dispatch center.

**GRID** The main beams and cross tees of the suspension system.

**HANGER WIRE** 10 or 12 gage soft annealed wire used as primary support for the grid system. Also called suspension wires.

**LATERAL FORCE BRACING** The bracing method used to prevent ceiling uplift or restrict lateral movement during a seismic event. Lateral force bracing consists of vertical struts and splay wires.

**MAIN BEAM** The primary suspension member supported by hanger wires, also known as the main runner, carrying tee, carrying runner or mains.

**MOLDING/CLOSURE ANGLE** A light gauge metal angle or channel fastened to the perimeter wall or partition to support the perimeter ends of an accoustical ceiling grid.

**PERIMETER CLIPS** Proprietary angle bracket attached directly to the wall molding/closure angle which allows for ¾" movement in the event of seismic activity and interlocks properly with ends of grid system.

**PERIMETER WIRES** Hanger wires placed within eight inches of the surrounding walls.

**PLENUM** The space above a suspended ceiling.

**SLACK WIRE** A 12 gage wire that is not tight or taut.

**SPREADER** or **SPACER BAR** A bar with notches to prevent the suspension system from separating, also called a stabilizer bar.

**SPLAY WIRES** Wires installed at an angle rather than perpendicular to the grid.

**VERTICAL STRUTS** The rigid vertical member used in lateral force bracing of the suspension system. Also known as compression posts, seismic posts, seismic struts. Common materials are electrical conduit (EMT), metal studs or proprietary products.

The NWCB has been serving the construction industry for over forty years. It is recognized as a technical authority, educational body and spokesperson for the wall and ceiling industry. It provides services to architects and the construction community on all matters relating to the diversified wall and ceiling industry. As the industry's development and coordination organization, the NWCB saw the need to establish a document to provide clarification and the intent of NEHRP (National Earthquake Hazards Reduction Program) an agency of FEMA (Federal Emergency Management Agency). It is meant to serve as a set of recommendations and is not intended for any specific construction project. This technical document is to serve as a guideline and it is not intended for any specific construction projects. NWCB makes no express or implied warranty or guarantee of the techniques, construction methods or materials identified herein.



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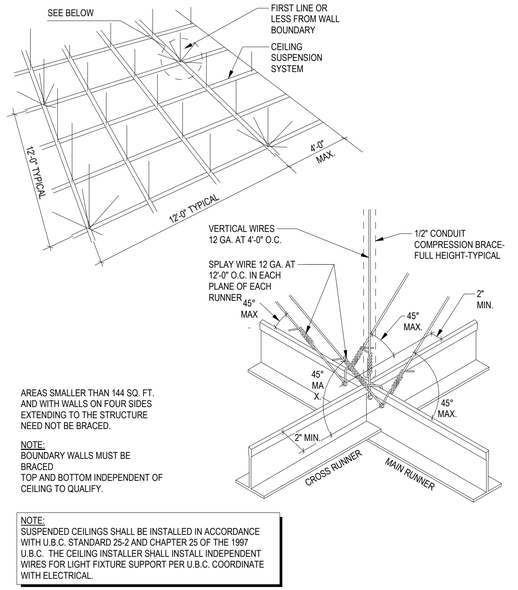
# TYP CEILING BRACING
SCALE: 12" = 1'-0"

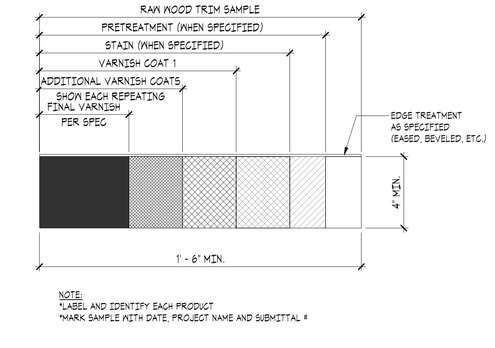



AREAS SMALLER THAN 144 SQ. FT. AND WITH WALLS ON FOUR SIDES EXTENDING TO THE STRUCTURE NEED NOT BE BRACED.

NOTE:
BOUNDARY WALLS MUST BE BRACED TOP AND BOTTOM INDEPENDENT OF CEILING TO QUALIFY.

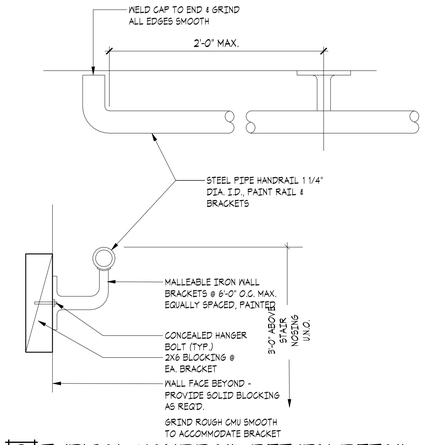
NOTE:
SUSPENDED CEILINGS SHALL BE INSTALLED IN ACCORDANCE WITH U.B.C. STANDARD 25-2 AND CHAPTER 25 OF THE 1997 U.B.C. THE CEILING INSTALLER SHALL INSTALL INDEPENDENT WIRES FOR LIGHT FIXTURE SUPPORT PER U.B.C. COORDINATE WITH ELECTRICAL.

## 1 LATERAL BRACING - SUSP. CEILING
SCALE: 1 1/2" = 1'-0"

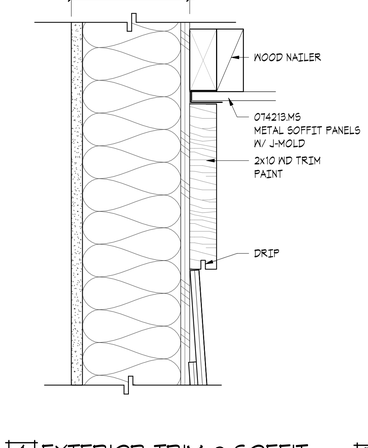



NOTE:
*LABEL AND IDENTIFY EACH PRODUCT
*MARK SAMPLE WITH DATE, PROJECT NAME AND SUBMITTAL #

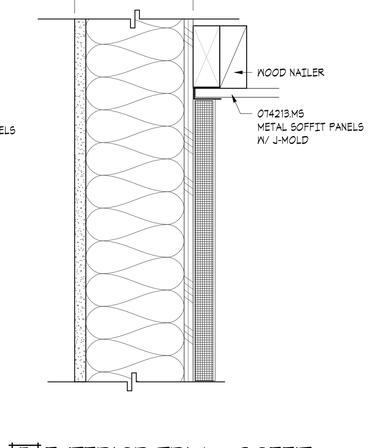
## 2 TYPICAL WOOD TRIM FINISH SAMPLE
SCALE: 3" = 1'-0"




## 3 TYPICAL HANDRAIL RETURN DETAIL
SCALE: 3" = 1'-0"




## 4 EXTERIOR TRIM @ SOFFIT
SCALE: 3" = 1'-0"




## 5 EXTERIOR TRIM @ SOFFIT
SCALE: 3" = 1'-0"

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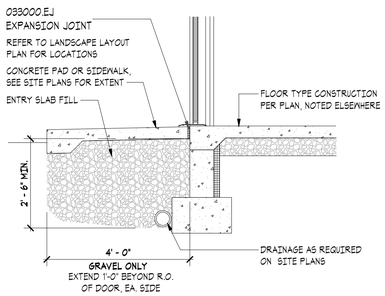
IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500
DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE
3284 INDUSTRIAL LOOP, COEUR D'ALENE, IDAHO 83815
DETAILS

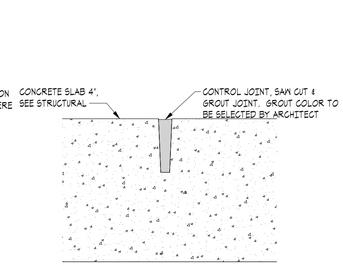
| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | SJR/GMJ |
| DRAWN BY | RF / RM |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | SJR |
| REVISION | RECORD SET |
| SHEET NO. | |

A10.10

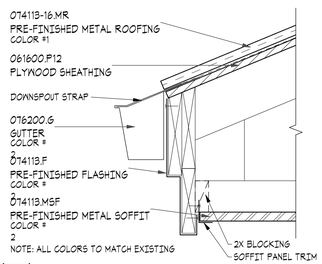



TYPICAL @ ALL EXTERIOR DOORS WITH EXTERIOR CONCRETE WALKS OR PADS

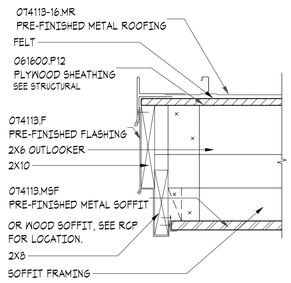
## 1 FROST HEAVE PROTECTION
SCALE: 1/2" = 1'-0"



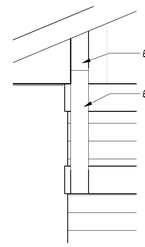

## 2 CONCRETE SAWCUT DETAIL
SCALE: 6" = 1'-0"



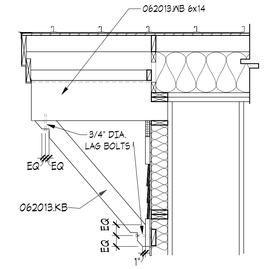

## 3 FASCIA DETAIL
SCALE: 1 1/2" = 1'-0"



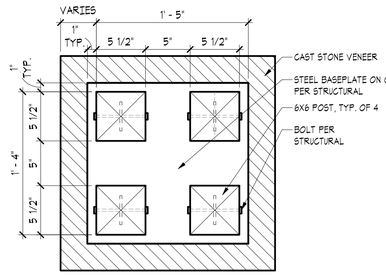

## 4 FASCIA DETAIL
SCALE: 1 1/2" = 1'-0"



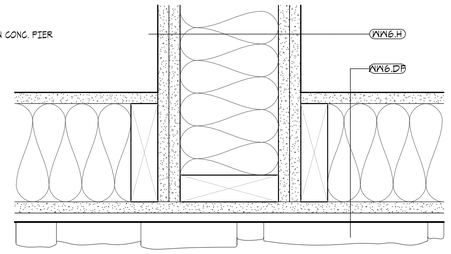

## 5 KNEE BRACE FRONT
SCALE: 1/2" = 1'-0"



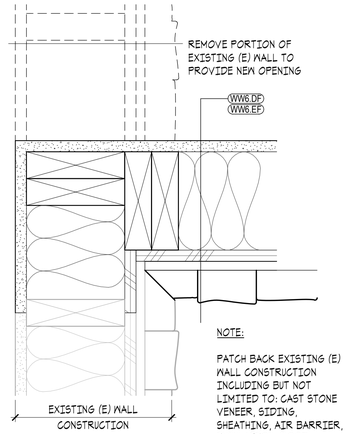

## 6 KNEE BRACE SIDE
SCALE: 1/2" = 1'-0"



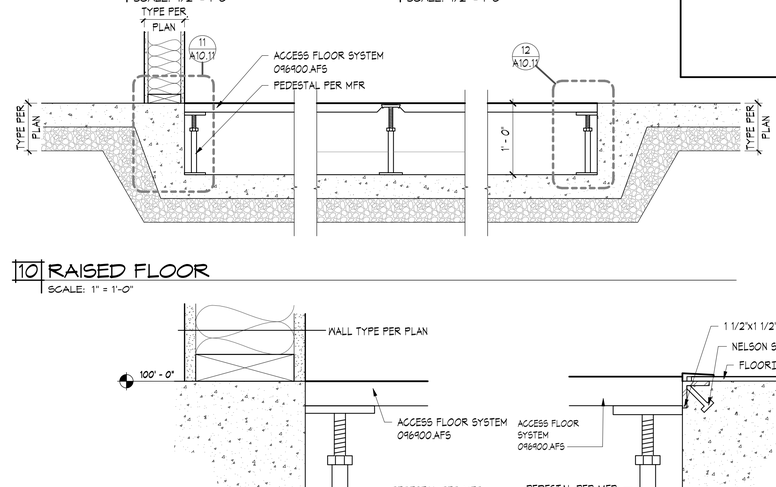

## 7 ENTRY PIER DETAIL
SCALE: 1 1/2" = 1'-0"



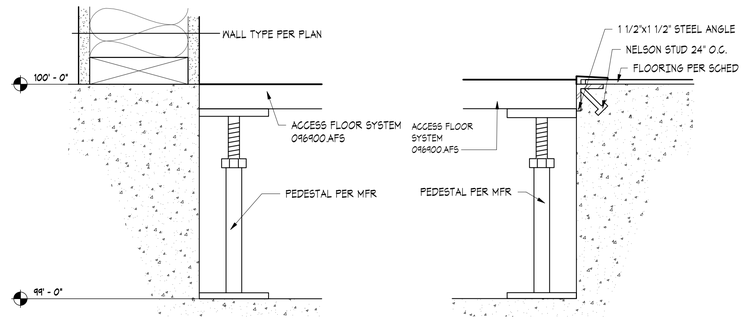

## 8 2 HR FIREWALL @ EXTERIOR
SCALE: 3" = 1'-0"




## 9 NEW EXT WALL @ (E) WALL INTERSECTION
SCALE: 3" = 1'-0"

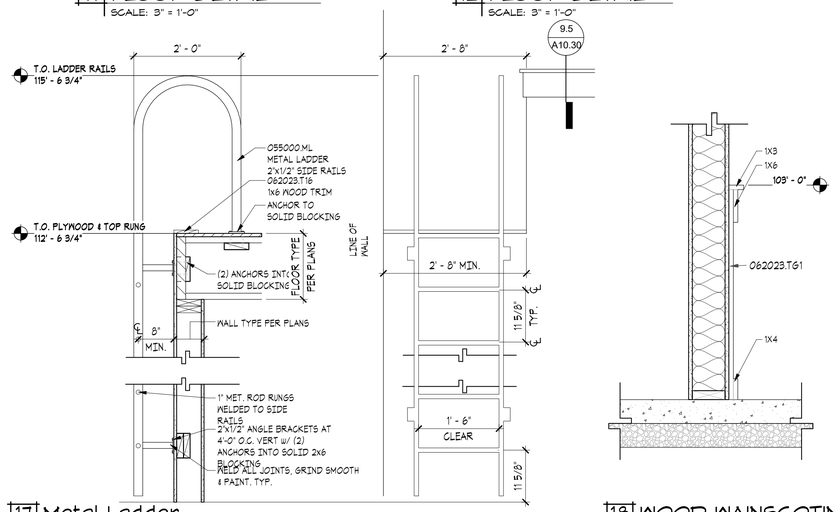



## 10 RAISED FLOOR
SCALE: 1" = 1'-0"

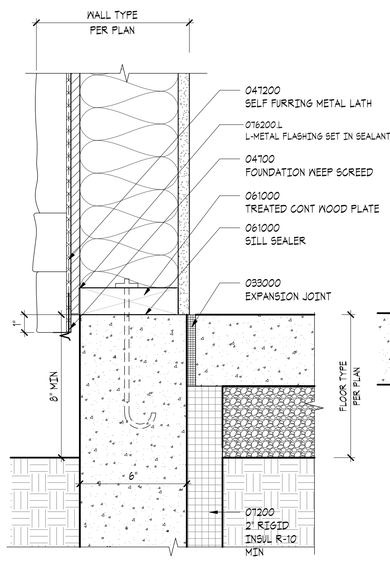



## 11 FLOOR DETAIL
SCALE: 3" = 1'-0"

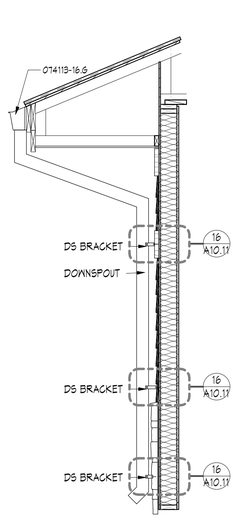
## 12 FLOOR DETAIL
SCALE: 3" = 1'-0"



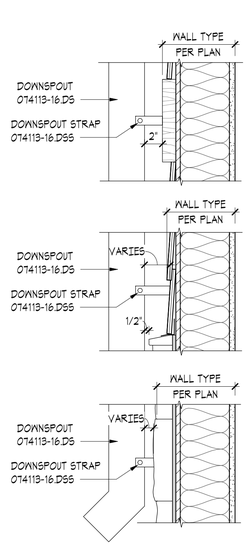

## 13 CAST STONE WALL BASE @ GRADE
SCALE: 3" = 1'-0"




## 14 CAST STONE WALL BASE @ CONCRETE
SCALE: 3" = 1'-0"




## 15 DS DETAIL
SCALE: 1/2" = 1'-0"




## 16 DS STRAP DETAIL
SCALE: 1 1/2" = 1'-0"




## 17 Metal Ladder
SCALE: 3/4" = 1'-0"

## 18 WOOD WAINSCOTING
SCALE: 1" = 1'-0"

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# MATERIALS KEYING LEGEND

| Keynote No. | Keynote Description |
|---|---|
| 033000.EJ | EXPANSION JOINT |
| 061600.P12 | PLYWOOD SHEATHING |
| 062013.KB | KNEE BRACE |
| 062023.TG1 | 1x8 T&G PLANK |
| 074113-16.MR | PRE-FINISHED METAL ROOFING |
| 074113.F | PRE-FINISHED FLASHING |
| 074113.MSF | PRE-FINISHED METAL SOFFIT |
| 076200.G | GUTTER |

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IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500
DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE
3284 INDUSTRIAL LOOP, COEUR D'ALENE, IDAHO 83815
DETAILS

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | SJR/GMJ |
| DRAWN BY | RF / RM |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | SJR |
| REVISION | RECORD SET |
| SHEET NO. | A10.11 |

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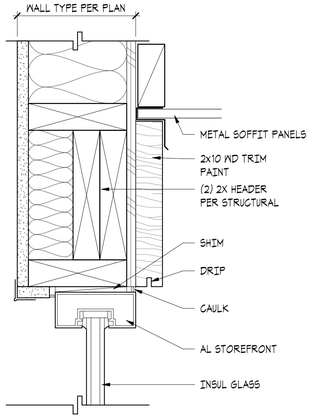
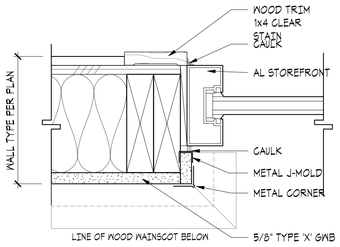
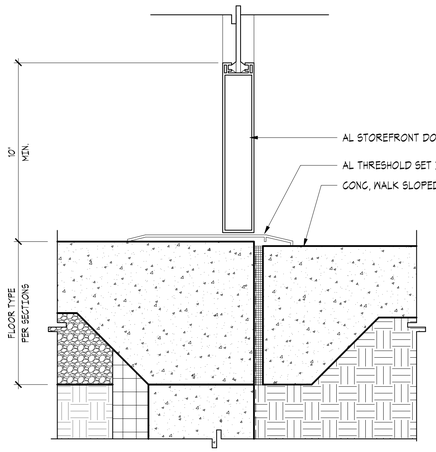


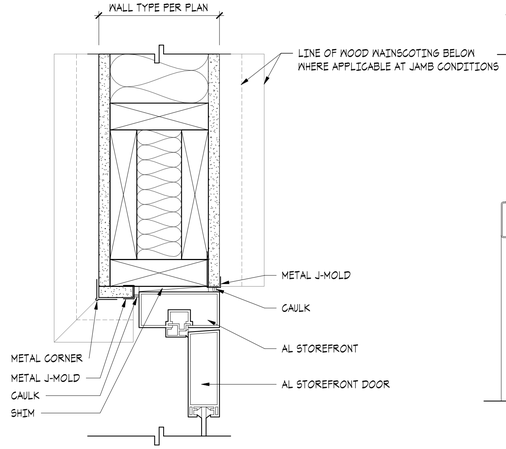

1 ALUM. SF HEAD DETAIL
SCALE: 3" = 1'-0"



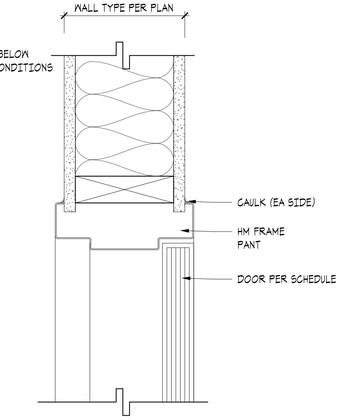

2 ALUM. SF JAMB DETAIL
SCALE: 3" = 1'-0"




3 ALUM. STOREFRONT THRESHOLD DETAIL
SCALE: 3" = 1'-0"




4 ALUM. SF HEAD DETAIL, JAMB SIM
SCALE: 3" = 1'-0"




5 HM DOOR HEAD DETAIL, JAMB SIM
SCALE: 3" = 1'-0"




6 DRAFT STOP DOOR HEAD/JAMB
SCALE: 3" = 1'-0"



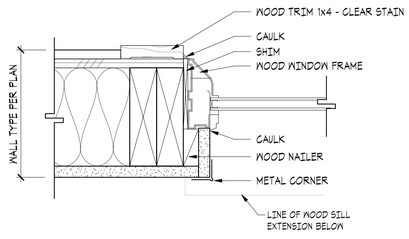

7 OH SECTIONAL DOOR HEAD
SCALE: 3" = 1'-0"



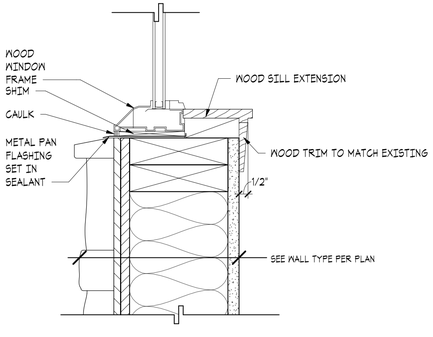

8 OH SECTIONAL DOOR JAMB
SCALE: 3" = 1'-0"




9 WOOD WINDOW HEAD DETAIL
SCALE: 3" = 1'-0"
SIM. AT GABLE END CONDITION




10 WOOD WINDOW JAMB DETAIL
SCALE: 3" = 1'-0"




11 WOOD WINDOW SILL DETAIL
SCALE: 3" = 1'-0"

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# IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500

DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE

3284 INDUSTRIAL LOOP, COEUR D'ALENE, IDAHO 83815

DOOR / WINDOW DETAILS

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | SJR/GMJ |
| DRAWN BY | RF / RM |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | SJR |
| REVISION | RECORD SET |
| SHEET NO. | A10.20 |

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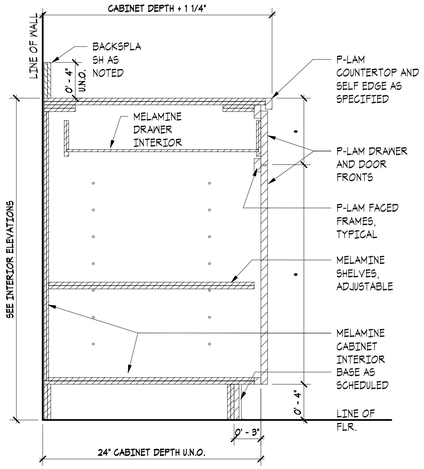
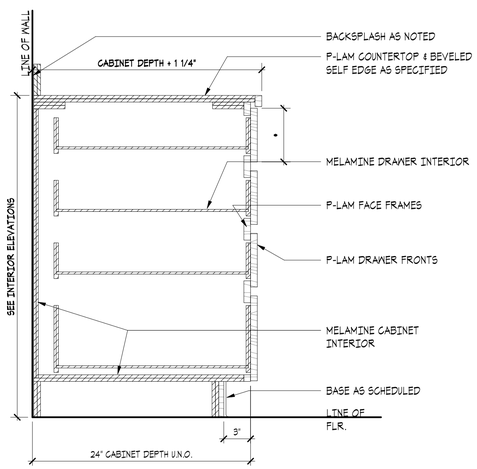


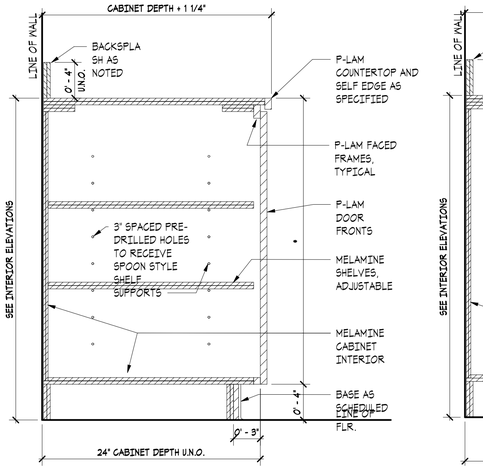

## 1 TYPICAL BASE CABINET

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



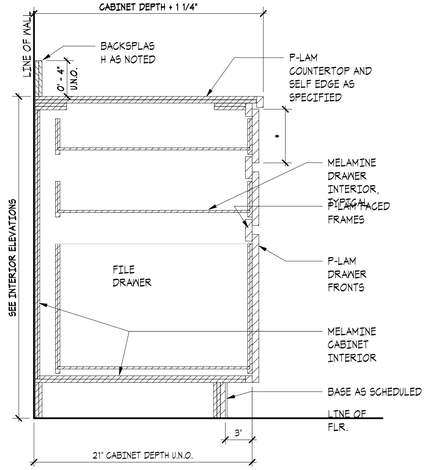

## 2 TYPICAL BASE CABINET

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



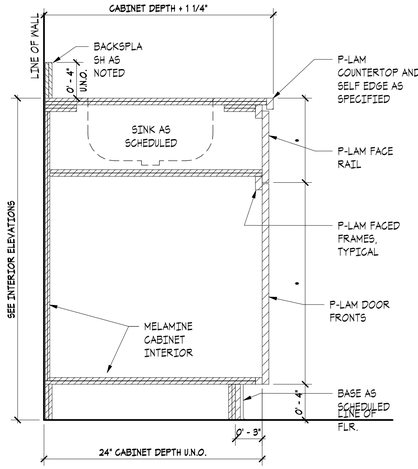

## 3 TYPICAL BASE CABINET

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




## 4 TYPICAL BASE CABINET

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




## 5 TYPICAL BASE CABINET

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




## 6 TYPICAL COUNTER TOP

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




## 7 TYPICAL COUNTER TOP WITH SINK

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




## 8 TYPICAL UPPER CABINET

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




## 9 TYPICAL UPPER CABINET

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



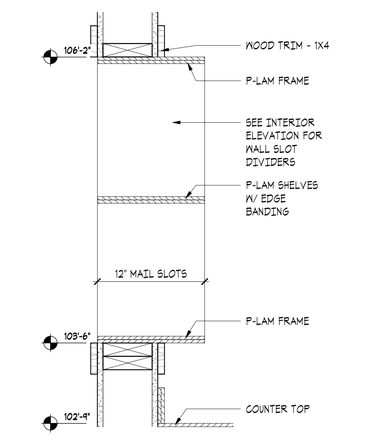

## 9.5 WALL TRIM @ MEZZANINE

SCALE: 3" = 1'-0"



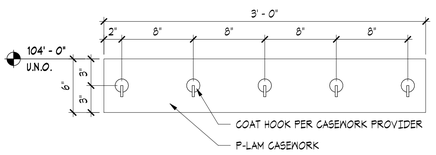

## 12 LOCKERS

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



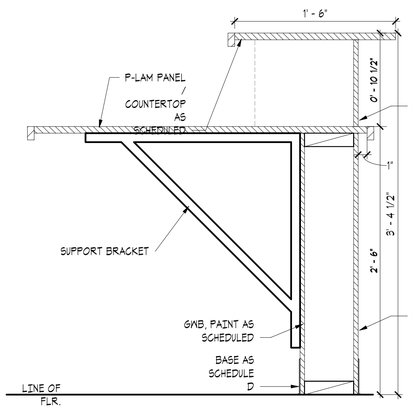

## 10 TYPICAL MAIL SLOTS

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



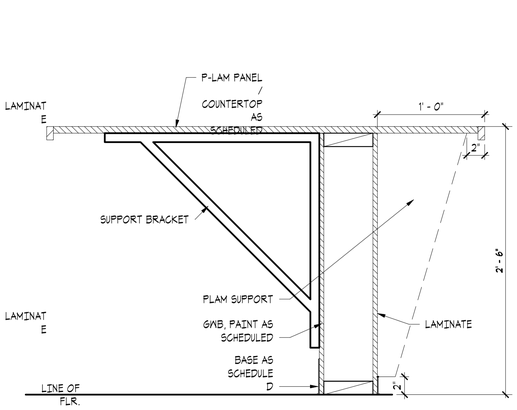

## 11 12.501 COAT HANGER

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




## 13 RECEPTION DESK DETAIL - HIGH SECT

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




## 14 RECEPTION DESK DETAIL - LOW SECT.

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

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# IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500

DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE

3284 INDUSTRIAL LOOP, COEUR D'ALENE, IDAHO 83815

CABINET DETAILS

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | SJR/GMJ |
| DRAWN BY | RF / RM |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | SJR |
| REVISION | RECORD SET |
| SHEET NO. | A10.30 |

PLOTTED: 8/13/2018 1:30:03 PM FILE PATH: C:\Users\robbief\Documents\1658 - ID Dept of Lands - cntrl_Robbie_Frazer.rvt

# STRUCTURAL - GENERAL NOTES

## GENERAL REQUIREMENTS

**GOVERNING CODE:** The design and construction of this project is governed by the **"International Building Code (IBC)", 2012 Edition**, hereafter referred to as the IBC, as adopted and modified by the Department of Building Safety – Idaho State understood to be the Authority Having Jurisdiction (AHJ).

**REFERENCE STANDARDS: Refer to Chapter 35 of 2012 IBC**. Where other Standards are noted in the drawings, use the latest edition of the standard unless a specific date is indicated. Reference to a specific section in a code does not relieve the contractor from compliance with the entire standard.

**DEFINITIONS**: The following definitions cover the meanings of certain terms used in these notes:

"**Architect/Engineer**" – The Architect of Record and the Structural Engineer of Record.

- "**Structural Engineer of Record" (SER)** – The structural engineer who is licensed to stamp & sign the structural documents for the project. The SER is responsible for the design of the Primary Structural System.
- "**Submit for review**" - Submit to the Architect/Engineer for review prior to fabrication or construction.
- "**Per Plan**" – Indicates references to the structural plans, elevations and structural general notes.
- **"Specialty Structural Engineer" (SSE) –** A professional engineer (PE or SE), licensed in the State where the project is located, (typically not the SER), who performs specialty structural engineering services for selected specialty-engineered elements identified in the Contract Documents, and who has experience and training in the Specialty. Documents stamped and signed by the SSE shall be completed by or under the direct supervision of the SSE.
- **"Bidder-designed" –** Components of the structure that require the general contractor, subcontractor, or supplier who is responsible for the design, fabrication and installation of specialty-engineered elements identified in the Contract Documents to retain the services of an SSE. Submittals of "Bidder-designed" elements shall be stamped and signed by the SSE.

**SPECIFICATIONS**: Refer to the project specifications issued as part of the contract documents for information supplemental to these drawings.

**OTHER DRAWINGS**: Refer to the architectural, mechanical, electrical, civil and plumbing drawings for additional information including but not limited to: dimensions, elevations, slopes, door and window openings, non-bearing walls, stairs, finishes, drains, waterproofing, railings, depressions mechanical unit locations, and other nonstructural items.

**STRUCTURAL DETAILS:** The structural drawings are intended to show the general character and extent of the project and are not intended to show all details of the work. Use entire detail sheets and specific details referenced in the plans as "typical" wherever they apply. Similarly, use details on entire sheets with "typical" in the name wherever they apply.

**STRUCTURAL RESPONSIBILITIES**: The structural engineer (SER) is responsible for the strength and stability of the primary structure in its completed form.

**COORDINATION:** The Contractor is responsible for coordinating details and accuracy of the work; for confirming and correlating all quantities and dimensions; for selecting fabrication processes; for techniques of assembly; and for performing work in a safe and secure manner.

**MEANS, METHODS and SAFETY REQUIREMENTS**: The contractor is responsible for the means and methods of construction and all job related safety standards such as OSHA and DOSH (Department of Occupational Safety and Health). The contractor is responsible for means and methods of construction related to the intermediate structural conditions (i.e. movement of the structure due to moisture and thermal effects; construction sequence; temporary bracing, etc).

**BRACING/SHORING DESIGN ENGINEER**: The contractor shall at his discretion employ an SSE, a registered professional engineer for the design of any temporary bracing and shoring.

**TEMPORARY SHORING, BRACING**: The contractor is responsible for the strength and stability of the structure during construction and shall provide temporary shoring, bracing and other elements required to maintain stability until the structure is complete. It is the contractor's responsibility to be familiar with the work required in the construction documents and the requirements for executing it properly.

**CONSTRUCTION LOADS**: Loads on the structure during construction shall not exceed the design loads as noted in DESIGN CRITERIA & LOADS below or the capacity of partially completed construction as determined by the Contractor's SSE for Bracing/Shoring.

**CHANGES IN LOADING**: The contractor has the responsibility to notify the SER of any architectural, mechanical, electrical, or plumbing load imposed onto the structure that differs from, or that is not documented on the original Contract Documents (architectural / structural / mechanical / electrical or plumbing drawings). Provide documentation of location, load, size and anchorage of all undocumented loads in excess of **400** pounds. Provide marked-up structural plan indicating locations of any new equipment or loads. Submit plans to the Architect/Engineer for review prior to installation.

**NOTE PRIORITIES**: Plan and detail notes and specific loading data provided on individual plans and detail drawings supplements information in the Structural General Notes.

**DISCREPANCIES:** In case of discrepancies between the General Notes, Specifications, Plans/Details or Reference Standards, the Architect/Engineer shall determine which shall govern. Discrepancies shall be brought to the attention of the Architect/Engineer before proceeding with the work. Should any discrepancy be found in the Contract Documents, the Contractor will be deemed to have included in the price the most expensive way of completing the work, unless prior to the submission of the price, the Contractor asks for a decision from the Architect as to which shall govern. Accordingly, any conflict in or between the Contract Documents shall not be a basis for adjustment in the Contract Price.

**SITE VERIFICATION**: The contractor shall verify all dimensions and conditions at the site. Conflicts between the drawings and actual site conditions shall be brought to the attention of the Architect/Engineer before proceeding with the work.

**ADJACENT UTILITIES**: The contractor shall determine the location of all adjacent underground utilities prior to earthwork, foundations, shoring, and excavation. Any utility information shown on the drawings and details is approximate and not necessarily complete.

**ALTERNATES**: Alternate products of similar strength, nature and form for specified items may be submitted with adequate technical documentation (proper test report, etc.) to the Architect/Engineer for review. Alternate materials that are submitted without adequate technical documentation or that significantly deviate from the design intent of materials specified may be returned without review. Alternates that require substantial effort to review will not be reviewed unless authorized by the Owner.

## DESIGN CRITERIA AND LOADS

| | | |
|---|---|---|
| **OCCUPANCY:** | Risk Category of Building per 2012 IBC Table 1604.5 = | **II** |

| | | | |
|---|---|---|---|
| **WIND DESIGN:** | **MAIN WIND FORCE RESISTING SYSTEM** | | |
| | Ultimate Design Wind Speed, $V_{ULT}$ (MPH) | | **115** |
| | Exposure Category | | **B** |
| | Topographic Factor | **Kzt =** | **1.0** |
| | Wind Analysis procedure used: | | **Envelope** |
| | | | |
| | **COMPONENT & CLADDING PRESSURES for DESIGN (for 10 SQ FT Tributary Area) (Ultimate)** | | **PSF** |
| | Wall Cladding, Typical Zone | | **26** |
| | Wall Cladding, Edge Zone within **10** feet of corners | | **32** |
| | Roof Cladding, Middle Zone | | **22** |
| | Roof Cladding, Edge Zone within **10** feet of edge | | **38** |
| | Roof Cladding, Corner Zone within **10** feet of corners | | **56** |
| | Net Uplift Load (Service Level) | | **5** |

| | | | |
|---|---|---|---|
| **SEISMIC DESIGN:** | **Seismic Design Category:** | **SDC =** | **C** |
| | Basic Structural System | | **Bearing Wall** |
| | Seismic Force Resisting System | | **Light Framed Walls w/ Wood Sheathing** |
| | Response Modification Factor: | **R =** | **6.5** |
| | System Over Strength Factor | **Omega =** | **3** |
| | Deflection Amplification Factor | **Cd =** | **4** |
| | Site Classification per IBC 1613.3.2 & ASCE 7-10, Ch. 20 **Site Class =** | | **D** |
| | Seismic Importance Factor per ASCE 7-10 Table 1.5-2 | **Ie =** | **1.0** |
| | Spectral Response Acceleration (Short Period) | **$S_s$ =** | **0.355 g** |
| | Spectral Response Acceleration (1-Second Period) | **$S_1$ =** | **0.116 g** |
| | Spectral Design Response Coefficient (Short Period) | **$S_{DS}$ =** | **0.359 g** |
| | Spectral Design Response Coefficient (1-Second Period) | **$S_{D1}$ =** | **0.181 g** |
| | Seismic response coefficient(s) | **Cs =** | **0.06** |
| | Redundancy Factor (North/South Direction) | **N/S rho=** | **1.0** |
| | Redundancy Factor (East / West Direction) | **E/W rho=** | **1.0** |
| | Design Base Shear (North/South Direction) | (KIPS) | **20.6** |
| | Design Base Shear (East / West Direction) | (KIPS) | **20.6** |
| | Base shear governed by: | | **wind** |
| | Seismic Analysis procedure used: | | **Equivalent Lateral Force (ELF)** |

| | | | |
|---|---|---|---|
| **SNOW LOAD**: (1) | Flat Roof Snow Load, (PSF) | $p_f$ = | **40** (2) |
| | Snow Drift Loading required by Authority Having Jurisdiction? | | **Yes** |
| | Snow Load Importance Factor | $I_s$ = | **1.0** (3) |
| | Ground Snow Load, (PSF) | $p_g$ = | **60** |
| | Snow Exposure Factor | $C_e$ = | **1.0** |
| | Thermal Factor | $C_t$ = | **1.1** |

1) Snow Load is un-reducible and includes 5 psf rain-on-snow surcharge where ground snow load is greater than zero and 20 psf or less per ASCE 7-10 Section 7.10.
2) Snow Load based on ASCE 7-10 Fig 7-1.
3) Snow Load Importance Factor per ASCE 7-10 Table 1.5-2.

| DESIGN DEAD LOADS | BIDDER DESIGN | DEAD LOADS (PSF) UNO | REMARKS & FOOTNOTES |
|---|---|---|---|
| | Roof Dead Load, Total | **15** PSF | For Pre-Fabricated Wood Truss design |
| | Top Chord | **10** PSF | |
| | Bottom Chord | **5** PSF | |

## SUBMITTALS

**SUBMIT FOR REVIEW:** SUBMITTALS of shop drawings, product data are required for items noted in the individual materials sections and for *bidder designed* elements.

**SUBMITTAL REVIEW PERIOD:** Per Division 1

**GENERAL CONTRACTOR'S PRIOR REVIEW:** Prior to submission to the Architect/Engineer, the Contractor shall review the submittal for completeness. Dimensions and quantities are not reviewed by the SER, and therefore, must be verified by the General Contractor. Contractor shall provide any necessary dimensional details requested by the Detailer and provide the Contractor's review stamp and signature before forwarding to the Architect/Engineer.

**SHOP DRAWING REVIEW**: Once the contractor has completed his review, the SER will review the submittal for general conformance with the design concept and the contract documents of the building and will stamp the submittal accordingly. Markings or comments shall not be construed as relieving the contractor from compliance with the project plans and specifications, nor departures there from. The SER will return submittals in the form they are submitted in (either hard copy or electronic). For hard copy submittals, the contractor is responsible for submitting the required number of copies to the SER for review.

**SHOP DRAWING DEVIATIONS**: When shop drawings (component design drawings) differ from or add to the requirements of the structural drawings they shall be designed and stamped by the responsible SSE.

## DEFERRED SUBMITTALS

**BIDDER-DESIGNED ELEMENTS**
Submit "Bidder-Designed" deferred submittals to the Architect and SER for review. The deferred submittals shall also be submitted to the state for approval.

Design of prefabricated, "bidder designed", manufactured, pre-engineered, or other fabricated products shall be comply with the following requirements:

1) Design considers tributary dead, live, wind and earthquake loads in combinations required by IBC.
2) Design within the Deflection Limits noted herein and as specified or referenced in the IBC.
3) Design shall conform to the specifications and reference standards of the governing code.
4) Submittal shall include:
   a. Calculations prepared, stamped and signed by the SSE demonstrating code conformance.
   b. Engineered component design drawings are prepared, stamped and signed by the SSE.
   c. Product data, technical information and manufacturer's written requirements and Agency approvals as applicable.
   d. SSE may submit to the Architect/Engineer, a request to utilize relevant alternate design criteria of similar nature and generally equivalency which is recognized by the Code and acceptable to the Authority Having Jurisdiction. Submit adequate documentation of design.

| **DEFLECTION LIMITS FOR SSE / BIDDER DESIGNED ELEMENTS:** | **VERTICAL** | **LIMIT** |
|---|---|---|
| | Roof Members, Dead + Live or Snow or Wind, Total Load (TL) Deflection | L / 240, where (L is span length, inches) |
| | Roof, Live or Snow or Wind Load (RLL) | L / 360 |

(1) Wind Load is reducible to 0.42 times the Component and Cladding Loads per Table 1604.3 footnote f.

**GENERAL CONTRACTOR'S PRIOR REVIEW**: Once the contractor has completed his review of the SSE component drawings, the SER will review the submittal for general conformance with the design of the building and will stamp the submittal accordingly. Review of the Specialty Structural Engineer's (SSE) shop drawings (component design drawings) is for compliance with design criteria and compatibility with the design of the primary structure and does not relieve the SSE of responsibility for that design. All necessary bracing, ties, anchorage, proprietary products shall be furnished and installed per manufacturer's instructions or the SSE's design drawings and calculations. These elements include but are not limited to:

- Prefabricated Wood Roof Trusses
- Metal Building Frame

## INSPECTIONS, QUALITY ASSURANCE VERIFICATIONS AND TEST REQUIREMENTS

INSPECTIONS: Foundations, footings, under slab systems and framing are subject to inspection by the Building Official in accordance with IBC 110.3. Contractor shall coordinate all required inspections with the Building Official.

SPECIAL INSPECTIONS, VERIFICATIONS and TESTS: Special Inspections, Verifications and Testing shall be done in accordance with IBC Chapter 17 and the STATEMENT OF SPECIAL INSPECTIONS herein per IBC Sections 1704 and 1705 as applicable.

SPECIAL INSPECTION AGENCY and SPECIAL INSPECTORS: Owner shall retain an "approved agency" per IBC 1703 to provide Special Inspections for the project. Special Inspectors shall be qualified persons per IBC 1704.2.1.

**STATEMENT OF SPECIAL INSPECTIONS.** Special Inspections and Testing per IBC Sections 1704 and 1705 are required for the following:

**FABRICATION SHOP INSPECTION**: Where off-site Fabrication of gravity LOAD BEARING MEMBERS & ASSEMBLIES is performed, Special Inspector shall verify that the fabricator complies with IBC Sections 1704.10 and 1704.2.5.

**SOILS & FOUNDATION CONSTRUCTION** per IBC Section 1705.6

- **Periodic** inspection of soils earthwork per Table 1705.6 is required for:
  - Footing soil bearing surfaces prior to placing any reinforcing steel
  - Excavation depth and bearing layer prior to placing any reinforcing steel.
  - Compacted fill material classification.
  - Subgrade preparation prior to filling.
- **Continuous** inspection per Table(s) 1705.6 required for:
  - Filling operations to satisfy requirements of IBC Table 1705.6 and the geotechnical report listed under SOILS & FOUNDATIONS section.
  - Compacted fill density testing of each lift, proper lift thickness and material classification.

**STRUCTURAL STEEL** per IBC 1704.2.5.1

A qualified Special Inspector of an "approved agency" providing Quality Assurance (QA) Special Inspections for the project shall review and confirm the Fabricator and Erector's Quality Control (QC) procedures for completeness and adequacy relative to AISC 360-10 Chapter N, the AISC 303 Code of Standard Practice, AWS D1.1-2010 Structural Welding Code, and 2012 IBC code requirements for the fabricator's scope of work.

- QA Agency providing Special Inspections shall provide personnel meeting the minimum qualification requirements for Inspection and Nondestructive Testing NDT per AISC 360-10 Section N4.
- Verify Fabricator and Erector Quality Control Program per AISC 360-10 Section N2.
- Visual Welding Inspection of welds by both QC and QA personnel shall be per tables listed in AISC 360 Section N5.
- Inspection Tasks for Welding
  - Prior to Welding per AISC 360-10 Table N5.4-1
  - During Welding per AISC 360-10 Table N5.4-2
  - After Welding per AISC 360-10 Table N5.4-3
- Nondestructive Testing (NDT) of welds:
  - Non-Destructive Testing (NDT) of welded joints per AISC 360-10 N.5.
  - Risk Category for determination of extent of NDT per AISC 360 N5.5b is noted in the Design Criteria and Loads section of these General Requirements.
  - NDT performed shall be documented and reports shall identify the tested weld by piece mark and location in the piece.
  - For field work, the NDT report shall identify the tested weld by location in the structure, piece mark and location in the piece.
- Inspection Tasks for Bolting per AISC 360-10 Section N5.6
  - Prior to Bolting per AISC 360-10 Table N5.6-1Not required for snug-tight joints.
  - During Bolting per AISC 360-10 Table N5.6-2. Not required for snug-tight joints.
  - After Bolting per AISC 360-10 Table N5.6-3
- Additional Inspection tasks per AISC 360-10 Section N5.7.
- Inspection for Composite Construction shall be done per AISC 360-10 Section N6.

**WOOD CONSTRUCTION** per IBC Section 1705.5 1705.11.1 & 1705.12.2:

- **Periodic** inspection required for verification of:
  - Shear Walls: Anchor Bolts, Hold-downs (HD) and Continuous Rod Tie-Down Systems (TDS) including squash blocks, LPT shear connectors, strap connectors, boundary edge nailing, plate nailing and panel edge shear nailing for size & spacing **where fastener spacing of the sheathing is 4 inches or less.**
  - Diaphragms: blocking, strap connections, boundary edge and panel shear nailing size & spacing **where fastener spacing of the sheathing is 4 inches or less.**
  - Moisture content of wood studs, plates, beams, decking, and joists.
  - Proper bottom plates sizes (2x and 3x) and plate washers.
  - Roof truss 'hurricane' clips.

## DRAWING LEGEND

| MARK | DESCRIPTION | MARK | DESCRIPTION |
|---|---|---|---|
| F2.0 | FOOTING SYMBOL (REFER TO SPREAD FOOTING SCHEDULE) | | INDICATES WIDE FLANGE COLUMN |
| 1P | PILE CAP SYMBOL (REFER TO PILE CAP SCHEDULE) | | INDICATES HOLLOW STRUCTURAL SECTION (HSS) COLUMN OR TUBE STEEL (TS) COLUMN |
| 1 | TILT-UP/PRECAST CONCRETE WALL CONNECTION SYMBOL (REFER TO CONNECTION DETAIL) | | INDICATES HOLLOW STRUCTURAL SECTION (HSS) COLUMN OR STEEL PIPE COLUMN |
| 2W4 | SHEAR WALL SYMBOL (REFER TO SHEAR WALL SCHEDULE) | | INDICATES WOOD POST |
| 1 | REVISION TRIANGLE | | INDICATES BUNDLED STUDS |
| 1 | TILT-UP/PRECAST CONCRETE WALL PANEL NUMBER (REFER TO TILT-UP/ PRECAST CONCRETE WALL ELEVATIONS) | | INDICATES CONCRETE COLUMN |
| 1 | CMU WALL REINFORCING SYMBOL (REFER TO CMU WALL REINFORCING SCHEDULE) | | INDICATES PRECAST CONCRETE COLUMN |
| 8" | CONTINUITY PLATE LENGTH (REFER TO TYPICAL DETAIL) | | INDICATES MOMENT FRAME CONNECTION |
| 1D | INDICATES DOUBLE SHEAR CONNECTION (REFER TO THE DOUBLE SHEAR PLATE CONNECTIONS DETAIL) | | INDICATES CANTILEVER CONNECTION |
| 00TB | INDICATES REINFORCING TYPE (REFER TO THE REINFORCING SCHEDULE) | | INDICATES DRAG CONNECTION |
| SR__ | INDICATES NUMBER OF STUD RAIL REQUIRED AT COLUMN (REFER TO STUD RAIL DETAILS) | | INDICATES WOOD OR STEEL STUD WALL |
| 1 | ROOF/FLOOR DIAPHRAGM NAILING SYMBOL (REFER TO DIAPHRAGM NAILING SCHEDULE) | | INDICATES MASONRY/CMU WALL |
| C1 XX'-XX" | STEEL/CONCRETE COLUMN SYMBOL (REFER TO STEEL COLUMN SCHEDULE) | | INDICATES CONCRETE/TILT-UP CONCRETE WALL |
| T/FTG = X'-X" | ELEVATION SYMBOL (T/ REFERS TO COMPONENT THAT THE ELEVATION REFERENCES) | | INDICATES WOOD OR STEEL STUD SHEAR WALL |
| 3 | STUD BUBBLE (INDICATES NUMBER OF STUDS REQUIRED IF EXCEEDS NUMBER SPECIFIED IN PLAN NOTE) | | INDICATES BEARING WALL BELOW |
| | INDICATES STEP IN FOOTING (REFER TO TYPICAL STEP IN FOOTING DETAIL) | | INDICATES EXISTING WALL |
| X SX.X | DETAILS OR SECTION CUT (DETAIL NUMBER/SHEET NUMBER) | | POST-TENSION DEAD END (PLAN) |
| 00 S0.0 | DETAILS OR SECTION CUT IN PLAN VIEW (DETAIL NUMBER/SHEET NUMBER) | | POST-TENSION STRESSING END (PLAN) |
| X/ SX.X | INDICATES LOCATION OF CONCRETE WALLS, SHEAR WALLS OR BRACED FRAME ELEVATIONS | 3 | POST-TENSION PROFILE (PLAN) (IN INCHES) |
| | SPAN INDICATOR (INDICATES EXTENTS OF FRAMING MEMBERS OR OTHER STRUCTURAL COMPONENTS) | | INTERMEDIATE STRESSING (PLAN) |
| | INDICATES DIRECTION OF DECK SPAN | | |

## ABBREVIATIONS

| | | | | | |
|---|---|---|---|---|---|
| L | Angle | EXP JT | Expansion Joint | PP | Partial Penetration |
| AB | Anchor Bolt | EXT | Exterior | PREFAB | Prefabricated |
| ADDL | Additional | FD | Floor Drain | PSF | Pounds per Square Foot |
| ADH | Adhesive | FDN | Foundation | | |
| ALT | Alternate | FIN | Finish | PSI | Pounds Per Square Inch |
| ARCH | Architectural | FLR | Floor | | |
| B or BOT | Bottom | FRP | Fiberglass Reinforced Plastic | PSL | Parallel Strand Lumber |
| B/ | Bottom Of | FTG | Footing | | |
| BLDG | Building | F/ | Face of | P-T | Post-Tensioned |
| BLKG | Blocking | GA | Gage | PT | Pressure Treated |
| BMU | Brick Masonry Unit | GALV | Galvanized | R | Radius |
| BP | Baseplate | GEOTECH | Geotechnical | RD | Roof Drain |
| BRBF | Buckling Resisting Braced Frame | GL | Glue Laminated Timber | REF | Refer/Reference |
| | | GWB | Gypsum Wall Board | REINF | Reinforcing |
| BRG | Bearing | HDR | Header | REQD | Required |
| BTWN | Between | HF | Hem-Fir | RET | Retaining |
| C | Camber | HGR | Hanger | SCB | Special Concentric Braced |
| CL | Centerline | HD | Hold-down | | |
| CLT | Cross-Laminated Timber | HORIZ | Horizontal | SCHED | Schedule |
| | | HP | High Point | SHTHG | Sheathing |
| CB | Castellated Beam | HSS = TS | (Hollow Structural Section) | SIM | Similar |
| CIP | Cast in Place | IBC | International Building Code | SMF | Special Moment Frame |
| CJ | Construction or Control Joint | ID | Inside Diameter | SOG | Slab on Grade |
| CJP | Complete Joint Penetration | IE | Invert Elevation | SPEC | Specification |
| | | IF | Inside Face | SQ | Square |
| CLR | Clear | INT | Interior | SR | Studrail |
| CLG | Ceiling | k | Kips | SF | Square Foot |
| CMU | Concrete Masonry Unit | KSF | Kips Per Square Foot | SST | Stainless Steel |
| | | LF | Lineal Foot | STAGG | Stagger/Staggered |
| COL | Column | LL | Live Load | STD | Standard |
| CONC | Concrete | LLH | Long Leg Horizontal | STIFF | Stiffener |
| CONN | Connection | LLV | Long Leg Vertical | STL | Steel |
| CONST | Construction | LP | Low Point | STRUCT | Structural |
| CONT | Continuous | LONGIT | Longitudinal | SWWJ | Solid Web Wood Joist |
| C'SINK | Countersink | LSL | Laminated Strand Lumber | | |
| CTRD | Centered | LVL | Laminated Veneer Lumber | SYM | Symmetrical |
| DIA | Diameter | MAS | Masonry | T | Top |
| DB | Drop Beam | MAX | Maximum | T/ | Top Of |
| DBA | Deformed Bar Anchor | MECH | Mechanical | T&B | Top & Bottom |
| DBL | Double | MEZZ | Mezzanine | TC AX LD | Top Chord Axial Load |
| DEMO | Demolish | MFR | Manufacturer | TCX | Top Chord Extension |
| DEV | Development | MIN | Minimum | TDS | Tie Down System |
| DF | Douglas Fir | MISC | Miscellaneous | T&G | Tongue & Groove |
| DIAG | Diagonal | NIC | Not In Contract | THKND | Thickened |
| DIST | Distributed | NLT | Nail-Laminated Timber | THRD | Threaded |
| DL | Dead Load | | | THRU | Through |
| DN | Down | NTS | Not To Scale | TRANSV | Transverse |
| DO | Ditto | OC | On Center | TYP | Typical |
| DP | Depth/Deep | OCBF | Ordinary Concentric Braced Frame | UBC | Uniform Building Code |
| DWG | Drawing | | | | |
| (E) | Existing | OD | Outside Diameter | UNO | Unless Noted Otherwise |
| EA | Each | OF | Outside Face | | |
| EF | Each Face | OPNG | Opening | URM | Unreinforced Masonry Unit |
| EL | Elevation | OPP | Opposite | | |
| ELEC | Electrical | OWSJ | Open Web Steel Joist | VERT | Vertical |
| ELEV | Elevator | OWWJ | Open Web Wood Joist | W | Wide |
| EMBED | Embedment | PL | Plate | W/ | With |
| EQ | Equal | PAF | Powder Actuated Fastener | W/O | Without |
| EQUIP | Equipment | PC | Precast | WHS | Welded Headed Stud |
| EW | Each Way | PERP | Perpendicular | WP | Working Point |
| EXP | Expansion | PLWD | Plywood | WWF | Welded Wire Fabric |
| | | | | ± | Plus or Minus |

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**AS-BUILT DOCUMENTS**

These As-Built Documents have been prepared based on information provided by others. DCI Engineers has not verified the accuracy and/or completeness of this information and shall not be responsible for any errors or omissions which may be incorporated herein as a result.

IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500
DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE
3284 INDUSTRIAL LOOP, COEUR D'ALENE ID, 83815

GENERAL NOTES

| | |
|---|---|
| PROJECT NO. | 16041-0177 |
| DESIGNED BY | KEA TB |
| DRAWN BY | JLP |
| ISSUE DATE | 08.27.18 |
| PHASE | CLOSEOUT |
| CHECKED BY | MDT |
| REVISION | RECORD SET |
| SHEET NO. | |

S1.01

POST-INSTALLED ANCHORS TO CONCRETE AND MASONRY: shall comply with IBC Section 1703. Inspections shall be in accordance with the requirements set forth in the approved ICC Evaluation Report and as indicated by the design requirements specified on the drawings. Refer to the POST INSTALLED ANCHORS section of these notes for anchors that are the basis of the design. Special inspector shall verify anchors are as specified in the POST INSTALLED ANCHORS section of these notes or as otherwise specified on the drawings. Substitutions require approval by the SER and require substantiating calculations and current 2015 IBC recognized ICC Evaluation Services (ES) Report. Special Inspector shall document in their Special Inspection Report compliance with each of the elements required within the applicable ICC Evaluation Services (ES) Report. Continuous special inspection is required for adhesive anchors installed in horizontal or upwardly inclined orientations.

INSPECTION SUBMITTALS: Special inspection reports shall be provided on a weekly basis. Submit copies of all inspection reports to the Architect/Engineer and the Authority Having Jurisdiction for review. In addition to special inspection reports and tests, submit reports and certificates noted in IBC 1704.5 to the Authority Having Jurisdiction. Final special inspection reports will be required by each special inspection firm per IBC 1704.2.4.

STRUCTURAL OBSERVATION: per IBC Section 1704.6

Structural Observation is the visual observation of the structural system by a registered design professional for general conformance to the approved construction documents. It is not always required on a project, does not include or waive the responsibility for the special inspections and tests required by a Special Inspector per IBC Chapter 17, is not continuous, and does not certify conformance with the approved construction documents.

Structural Observation for this project is not required per IBC Section 1704.6.

CONTRACTOR RESPONSIBILITY: Prior to issuance of the building permit, the Contractor is required to provide the Authority Having Jurisdiction a signed, written acknowledgement of the Contractor's responsibilities associated with the above Statement of Special Inspections addressing the requirements listed in IBC Section 1704.4. Contractor is referred to IBC Sections 1705.12.5 and 1705.12.6 for architectural and MEP building systems that may be subject to additional inspections (based on the building's designated Seismic Design Category listed in the CRITERIA), including anchorage of HVAC ductwork containing hazardous materials, piping systems and mechanical units containing flammable, combustible or highly toxic materials, electrical equipment used for emergency or standby power, exterior wall panels and suspended ceiling systems.

PREFABRICATED CONSTRUCTION: All prefabricated construction shall conform to IBC Section 1703.

## SOILS AND FOUNDATIONS

REFERENCE STANDARDS: Conform to IBC Chapter 18 "Soils and Foundations."

GEOTECHNICAL REPORT: Recommendations contained in Proposed Idaho Department of Lands Addition and Improvement by GeoEngineers dated March 10, 2017 were used for design.

GEOTECHNICAL SUBGRADE INSPECTION: The Geotechnical Engineer shall inspect all sub-grades and prepared soil bearing surfaces, prior to placement of foundation reinforcing steel and concrete. Geotechnical Engineers shall provide a letter to the owner stating that soils are adequate to support the "Allowable Foundation Bearing Pressure(s)" shown below. Assumed values shall be field verified by the Building Official or the Geotechnical Engineer prior to placing concrete.

DESIGN SOIL VALUES:

| | | |
|---|---|---|
| Safety Factor per Soils Report | 1.5 | |
| Allowable Foundation Bearing Pressure | 3000 | PSF – Structural Fill |
| Passive Lateral Pressure | 250 | PSF/FT |
| Coefficient of Sliding Friction | 0.3 | |

FOUNDATIONS and FOOTINGS: Foundations shall bear on either on competent native soil or compacted structural fill as per the geotechnical report. Exterior perimeter footings shall bear not less than **24** inches below finish grade, unless otherwise specified by the geotechnical engineer and/or the building official.

FOOTING DEPTH: Tops of footings shall be as shown on plans with vertical changes as indicated with steps in the footings; locations of steps shown as approximate and shall be coordinated with the civil grading plans to ensure that the exterior perimeter footings bear no less than 18 inches below finish grade, or as otherwise indicated by the geotechnical engineer or building official.

SLABS-ON-GRADE: All slabs-on-grade shall bear on compacted structural fill or competent native soil per the geotechnical report. All moisture sensitive slabs-on-grade or those subject to receive moisture sensitive coatings/covering shall be provided with an appropriate capillary break and vapor barrier/retardant over the subgrade prepared and installed as noted in the geotechnical report, barrier manufacturer's written recommendations and coordinated with the finishes specified by the Architect.

## CAST-IN-PLACE CONCRETE

REFERENCE STANDARDS: Conform to:
(1) ACI 301-10 "Specifications for Structural Concrete"
(2) IBC Chapter 19 "Concrete"
(3) ACI 318-14 "Building Code Requirements for Structural Concrete"
(4) ACI 117-10 "Specifications for Tolerances for Concrete Construction and Materials"

FIELD REFERENCE: The contractor shall keep a copy of ACI Field Reference manual, SP-15, "Standard Specifications for Structural Concrete (ACI 301) with Selected ACI and ASTM References."

CONCRETE MIXTURES: Conform to ACI 301 Section 4 "Concrete Mixtures" and IBC Section 1904.1.

MATERIALS: Conform to ACI 301 Section 4.2.1 "Materials" for requirements for cementitious materials, aggregates, mixing water and admixtures.

SUBMITTALS: Provide all submittals required by ACI 301 Section 4.1.2. Submit mix designs for each mix in the table below. Substantiating strength results from past tests shall not be older than 24 months per ACI 318 Section 26.4.3.1 (b).

**TABLE OF MIX DESIGN REQUIREMENTS**

| Member Type/Location | Strength f'c (psi) | Test Age (days) | Nominal Maximum Aggregate | Exposure Class | Max W/C Ratio | Air Content | Notes (1 to 8 Typical UNO) |
|---|---|---|---|---|---|---|---|
| Foundations | 3000 | 28 | 1" | - | - | - | |
| Exterior Slabs on Grade & Sidewalks | 4500 | 28 | 1" | F2 | 0.45 | 6% | - |
| Interior Slabs on Grade | 3000 | 28 | 1" | - | 0.50 | - | |
| Exterior Stem Walls & Curbs | 4500 | 28 | 1" | F2 | 0.45 | 6% | - |

Table of Mix Design Requirements Notes:

(1) W/C Ratio: Water–cementitious material ratios shall be based on the total weight of cementitious materials. Maximum ratios are controlled by strength noted in the Table of Mix Design Requirements and durability requirements given in ACI 318 Section 19.3.

(2) Cementitious Materials:
a. The use of fly ash, other pozzolans, silica fume, or slag shall conform to ACI 318 Sections 19.3.2 and 26.4.2.2. Maximum amount of fly ash shall be 25% of total cementitious content unless re-viewed and approved otherwise by SER.
b. Cementitious materials shall conform to the relevant ASTM standards listed in ACI 318 Section 26.4.1.1.1(a).

(3) Air Content: Conform to ACI 318 Section 19.3.3.1. Minimum standards for exposure class are noted in the table. If freezing and thawing class is not noted, air content given is that required by the SER. Tolerance is ±1-½%. Air content shall be measured at point of placement.

(4) Aggregates shall conform to ASTM C33.

(5) Slump: Conform to ACI 301 Section 4.2.2.2. Slump shall be determined at point of placement.

(6) Chloride Content: Conform to ACI 318 Table 19.3.2.1.

(7) Non- chloride accelerator: Non-chloride accelerating admixture may be used in concrete placed at ambient temperatures below 50°F at the contractor's option.

(8) ACI 318, Section 19.3.1.1 exposure classes shall be assumed to be F0, S0, P0, and C0 unless different exposure classes are listed in the Table of Mix Design Requirements that modify these base requirements.

FORMWORK & RESHORING: Conform to ACI 301 Section 2 "Formwork and Form Accessories." Removal of Forms shall conform to Section 2.3.2 except strength indicated in Section 2.3.2.5 shall be 0.75 f' c.

MEASURING, MIXING, AND DELIVERY: Conform to ACI 301 Section 4.3.

HANDLING, PLACING, CONSTRUCTING AND CURING: Conform to ACI 301 Section 5. In addition, hot weather concreting shall conform to ACI 305R-10 and cold weather concreting shall conform to ACI 306R-10.

CONSTRUCTION JOINTS: Conform to ACI 301 Sections. 2.2.2.5, 5.2.2.1 and 5.3.2.6. Construction joints shall be located and detailed as on the construction drawings. Submit alternate locations per ACI 301 Section 5.1.2.3a for review and approval by the SER two weeks minimum prior to forming. Use of an acceptable adhesive, surface retardant, portland cement grout or roughening the surface is not required unless specifically noted on the drawings.

EMBEDDED ITEMS: Position and secure in place expansion joint material, anchors and other structural and non-structural embedded items before placing concrete. Contractor shall refer to mechanical, electrical, plumbing and architectural drawings and coordinate other embedded items.

GROUT: Use 7000 psi non-shrink grout under column base plates.

POST-INSTALLED ANCHORS to CONCRETE: Anchor location, type, diameter and embedment shall be as indicated on drawings. Reference the POST INSTALLED ANCHORS section for applicable Post-Installed Anchor Adhesives. Anchors shall be installed and inspected in strict accordance with the applicable ICC-Evaluation Service Report (ESR). Special inspection shall be per the TESTS and INSPECTIONS section.

FLOOR FINISHES: The contractor must provide and correctly install an isolation membrane and properly detailed expansion joints to help minimize cracking of finishes with cementitious setting beds or finish properties (tile, stone, terrazzo, concrete topping, etc). The expansion joints shall be sized for an expected shortening movement of 0.01 inches per foot.

STRENGTH TESTING AND ACCEPTANCE:

Testing: Obtain samples and conduct tests in accordance with ACI 301 Section 1.6.3.2. Additional samples may be required to obtain concrete strengths at alternate intervals than shown below.

- Cure 4 cylinders for 28-day test age, test 1 cylinder at 7 days, test 2 cylinders at 28 days, and hold 1 cylinder in reserve for use as the Engineer directs. After 56 days, unless notified by the Engineer to the contrary, the reserve cylinder may be discarded without being tested for specimens meeting 28-day strength requirements.
- The number of cylinders indicated above reference 6 by 12 in cylinders. If 4 by 8 in cylinders are to be used, additional cylinders must be cured for testing of 3 cylinders at test age per the table of mix design requirements.

Acceptance. Strength is satisfactory when:

(1) The averages of all sets of 3 consecutive tests equal or exceed the specified strength.

(2) No individual test falls below the specified strength by more than 500 psi.

A "test" for acceptance is the average strength of two 6 by 12 in. cylinders or three 4 by 8 in. cylinders tested at the specified test age.

CONCRETE PLACEMENT TOLERANCE: Conform to ACI 117-10 for concrete placement tolerance.

## CONCRETE REINFORCEMENT

REFERENCE STANDARDS: Conform to:
(1) ACI 301-10 "Standard Specifications for Structural Concrete", Section 3 "Reinforcement and Reinforcement Supports."
(2) ACI SP-66(04) "ACI Detailing Manual"
(3) CRSI MSP-09, 28th Edition, "Manual of Standard Practice."
(4) ANSI/AWS D1.4: 2005, "Structural Welding Code - Reinforcing Steel."
(5) IBC Chapter 19-Concrete.
(6) ACI 318-14 "Building Code Requirements for Structural Concrete."
(7) ACI 117-10 "Specifications for Tolerances for Concrete Construction and Materials"

SUBMITTALS: Conform to ACI 301 Section 3.1.1 "Submittals." Submit placing drawings showing fabrication dimensions and placement locations of reinforcement and reinforcement supports.

MATERIALS:

| | |
|---|---|
| Reinforcing Bars | ASTM A615, Grade 60, deformed bars.<br>ASTM A706, Grade 60, deformed bars. |
| Bar Supports | CRSI MSP-09, Chapter 3 "Bar Supports." |
| Tie Wire | 16 gage or heavier, black annealed. |

FABRICATION: Conform to ACI 301, Section 3.2.2. "Fabrication", and ACI SP-66 "ACI Detailing Manual."

WELDING: Bars shall not be welded unless authorized. When authorized, conform to ACI 301, Section 3.2.2.2. "Welding", AWS D1.4, and provide ASTM A706, grade 60 reinforcement.

PLACING: Conform to ACI 301, Section 3.3.2 "Placing." Placing tolerances shall conform to ACI 117.

CONCRETE COVER: Conform to the following cover requirements unless noted otherwise in the drawings.
Concrete cast against earth .....3"
Concrete exposed to earth or weather .....2"

SPLICES: Conform to ACI 301, Section 3.3.2.7, "Splices". Refer to "Typical Lap Splice and Development Length Schedule" for typical reinforcement splices. Splices indicated on individual sheets shall control over the schedule. Mechanical connections may be used when approved by the SER.

FIELD BENDING: Conform to ACI 301 Section 3.3.2.8. "Field Bending or Straightening." Bar sizes #3 through #5 may be field bent cold the first time. Subsequent bends and other bar sizes require preheating. Do not twist bars. Bars shall not be bent past 45 degrees.

## POST-INSTALLED ANCHORS (INTO CONCRETE AND MASONRY)

REFERENCE STANDARDS: Conform to:
1) IBC Chapter 19 "Concrete"
2) ACI 318-11 "Building Code Requirements for Structural Concrete"
3) IBC Chapter 21 "Masonry"
4) ACI 530-11/ASCE 5-11/TMS402-11 "Building Code Requirements for Masonry Structures"

POST-INSTALLED ANCHORS: Install only where specifically shown in the details or allowed by SER. All post-Installed anchors types and locations shall be approved by the SER and shall have a current ICC-Evaluation Service Report that provides relevant design values necessary to validate the available strength exceeds the required strength. Submit current manufacturer's data and ICC ESR report to SER for approval regardless of whether or not it is a pre-approved anchor. Anchors shall be installed in strict accordance to ICC-ESR and the manufacturer's printed installation instructions (MPII) in conjunction with edge distance, spacing and embedment depth as indicated on the drawings. The contractor shall arrange for a manufacturer's field representative to provide installation training for all products to be used, prior to the commencement of work. Only trained installer shall perform post installed anchor installation. A record of training shall be kept on site and be made available to the SER as requested. Adhesive anchors installed in horizontally or upwardly inclined orientation shall be performed by a certified adhesive anchor installer (AAI) as certified through ACI/CRSI or approved equivalent. Proof of current certification shall be submitted to the engineer for approval prior to commencement of installation. No reinforcing bars shall be damaged during installation of post-installed anchors. Special inspection shall be per the TESTS and INSPECTIONS section. Anchor type, diameter and embedment shall be as indicated on drawings.

1. ADHESIVE ANCHORS: The following Adhesive-type anchoring systems have been used in the design and shall be used for anchorage to CONCRETE as applicable and in accordance with corresponding current ICC ESR report. Reference the corresponding ICC ESR report for required minimum age of concrete, concrete temperature range, moisture condition, light weight concrete, and hole drilling and preparation requirements. Drilled-in anchor embedment lengths shall be as shown on drawings, or not less than 7 times the anchor nominal diameter (7D). Adhesive anchors are to be installed in concrete aged a minimum of 21 days, unless otherwise specified in the ICC ESR report.

a. SIMPSON "SET-XP" – ICC ESR 2508 for anchorage to CONCRETE

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# IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500
## DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE
## 3284 INDUSTRIAL LOOP, COEUR D'ALENE ID, 83815

GENERAL NOTES

**AS-BUILT DOCUMENTS**
These As–Built Documents have been prepared based on information provided by others. DCI Engineers has not verified the accuracy and/or completeness of this information and shall not be responsible for any errors or omissions which may be incorporated herein as a result.

| | |
|---|---|
| PROJECT NO. | 16041-0177 |
| DESIGNED BY | KEA TB |
| DRAWN BY | JLP |
| ISSUE DATE | 08.27.18 |
| PHASE | CLOSEOUT |
| CHECKED BY | MDT |
| REVISION | RECORD SET |
| SHEET NO. | S1.02 |

2. EXPANSION ANCHORS: The following Expansion type anchors are pre-approved for anchorage to CONCRETE or MASONRY in accordance with corresponding current ICC ESR report:
   a. SIMPSON "STRONG-BOLT 2" – ICC ESR-3037 for anchorage to CONCRETE Only
3. SCREW ANCHORS: The following Screw type anchor is pre-approved for anchorage to CONCRETE or MASONRY in accordance with corresponding current ICC ESR report:
   a. SIMPSON "TITEN HD" – ICC ESR-2713 for CONCRETE Only and ICC ESR-1056 for MASONRY Only

## STRUCTURAL STEEL

REFERENCE STANDARDS: Conform to:
1) IBC Chapter 22 – "Steel"
2) ANSI/AISC 303-10 – "Code of Standard Practice for Steel Buildings & Bridges"
3) AISC – "Manual of Steel Construction", Fourteenth Edition (2010)
4) ANSI/AISC 360-10 – "Specification for Structural Steel Buildings"
5) AWS D1.1:2010 – "Structural Welding Code – Steel"

SUBMITTALS: Submit the following documents to the SER for review:

(1) SHOP DRAWINGS complying with AISC 360 Sections M1and N3 and AISC 303 Section 4.
(2) ERECTION DRAWINGS complying AISC 360 Sections M1and N3 and AISC 303 Section 4.

Make copies of the following documents "Available upon Request" to the SER or Owner's Inspection Agency in electronic or printed form prior to fabrication per AISC 360 Section N3.2 requirements:

(1) Fabricator's written Quality Control Manual that includes, as a minimum:
   a. Material Control Procedures
   b. Inspection Procedures
   c. Non-conformance Procedures
(2) Steel & Anchor Rod suppliers' Material Test Reports (MTR's) indicating the compliance with specifications.
(3) Fastener manufacturer's Certification documenting conformance with the specification.
(4) Filler metal manufacturer's product data for SMAW, FCAW and GMAW indicating:
   a. Product specification compliance
   b. Recommended welding parameters
   c. Recommended storage and exposure requirements including baking
   d. Limitations of use
(5) Welded Headed (Shear) Stud Anchors Manufacturer's certification indicating the meet specifications.
(6) Procedure Qualification Records (PQR's) for WPS's that are not prequalified in accordance with AWS.
(7) Welding personnel Performance Qualification Records (WPQR) and continuity records conforming to AWS standards.

MATERIALS:
Structural steel materials shall conform to materials and requirements listed in AISC 360 section A3 including, but not limited to:

| | |
|---|---|
| Wide Flange (W), Tee (WT) Shapes | ASTM A992 Fy = 50 ksi |
| Channel (C) & Angle (L) Shapes | ASTM A36, Fy = 36 ksi |
| Structural Plate (PL) | ASTM A36, Fy = 36 ksi |
| Hollow Structural Section – Square/Rect (HSS) | ASTM A500, Grade B Fy = 46 ksi |
| Heavy Hex Nuts | ASTM A563, Grade and Finish per RCSC Table 2.1 |
| Washers (Hardened Flat or Beveled) | ASTM F436, Grade and Finish per RCSC Table 2.1 |
| Anchor Rods (Anchor Bolts, typical) | ASTM F1554, Gr. 36 |
| Welded Headed (shear) Stud Anchors | ASTM A108 – Nelson/TRW S3L |
| Welded Headed Stud (WHS) Anchors | ASTM A108 – Nelson/TRW H4L |
| Dowel Bar Anchors (DBA) | ASTM A496 – Nelson/TRW D2L, Fy = 70 ksi |

STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS:

1) ASTM A325-N bolts – "threads NOT excluded in the shear plane".
2) High-strength bolted joints have been designed as "BEARING" connections.
3) Provide ASTM Bolt Grade and Type as specified in the Materials section above.
4) Provide Washers over outer ply of slotted holes and oversize holes per RCSC Table 6.1.
5) Provide Nut and Washer grades, types and finishes conforming to RCSC specification Table 2.1.
6) Provide *fastener assemblies* from a single supplier.
7) Joint Types shall be:
   a. ST - "Snug Tight", for typical beam end "shear" connections, unless noted otherwise.
   b. SC - "Slip Critical", where specifically indicated. Provide with Class A [B] Faying surface.
8) Install bolts in joints in accordance with the RCSC Specification Section 8 and Table 4.1.
9) Inspection is per RCSC Section 9.

ANCHORAGE to CONCRETE:

1) EMBEDDED STEEL PLATES for Anchorage to Concrete: Plates (PL) embedded in concrete with studs (WHS) or dowel bar anchors (DBA) shall be of the sizes and lengths as indicated on the plans with minimum 1/2" dia. WHS x 6" long but provide not less than ¾" interior cover or 1 ½" exterior cover to the opposite face of concrete, unless noted otherwise.
2) COLUMN ANCHOR RODS and BASE PLATES: All columns (vertical member assemblies weighing over 300 pounds) shall be provided with a **minimum of four ¾" diameter anchor rods**. Column base plates shall be at least ¾" thick, unless noted otherwise. Cast-in-place anchor rods shall be provided unless otherwise approved by the Engineer. Unless noted otherwise, embedment of cast-in-place anchor rods shall be 12 times the anchor diameter (12D).

FABRICATION:

1) Conform to AISC 360 Section M2 "Fabrication" and AISC 303 Section 6 "Shop Fabrication".
2) Quality Control (QC) shall conform to:
   a. AISC 360 Chapter N "Quality Control and Quality Assurance" and
   b. AISC 303 Section 8 "Quality Control".
   c. Fabricator and Erector shall establish and maintain written Quality Control (QC) procedures per AISC 360 section N3.
   d. Fabricator shall perform self-inspections per AISC 360 section N5 to ensure that their work is performed in accordance with Code of Standard Practice, the AISC Specification, Contract Documents and the Applicable Building Code.
   e. QC inspections may be coordinated with Quality Assurance inspections per Section N5.3 where fabricators QA procedures provide the necessary basis for material control, inspection, and control of the workmanship expected by the Special Inspector.

WELDING:

1) Welding shall conform to AWS D1.1 with Prequalified Welding Processes except as modified by AISC 360 section J2. Welders shall be qualified in accordance with AWS D1.1 requirements.
2) Use 70ksi strength, low-hydrogen type electrodes (E7018) or E71T as appropriate for the process selected.
3) Welding of high strength anchor rods is prohibited unless approved by Engineer.

ERECTION:

1) Conform to AISC 360 Section M4 "Erection" and AISC 303 Section 7 "Erection".
2) Conform to AISC 360 Chapter N "Quality Control and Quality Assurance" and AISC 303 Section 8.
   a. The Erector shall maintain detailed erection quality control procedures that ensure that the work is performed in accordance with these requirements and the Contract Documents.
3) Steel work shall be carried up true and plumb within the limits defined in AISC 303 Section 7.13.
4) High strength bolting shall comply with the RCSC requirements including RCSC Section 7.2 "Required Testing", as applicable and AISC 360 Chapter J, Section M2.5 and Section N5.6.
5) The contractor shall provide temporary bracing and safety protection required by AISC 360 Section M4.2 and AISC 303 Section 7.10 and 7.11.

PROTECTIVE COATING REQUIREMENTS:

1) SHOP PAINTING: Conform to AISC 360 Section M3 and AISC 303 Section 6.5 unless otherwise specified by the project specifications.

2) EXTERIOR STEEL: Exposed exterior steel shall be protected by either:
   a. Paint with an exterior multi-coat system as per the project specifications. Field touch-up painting shall be to match top coat.

## WOOD FRAMING

REFERENCE STANDARDS: Conform to:
(1) IBC Chapter 23 "WOOD"
(2) NDS - "2015 National Design Specification (NDS) for Wood Construction"
(3) ANSI/AF&PA – SDPWA-15: Special Design Provisions for Wind and Seismic
(4) APA D510C-12 Plywood Design Specification
(5) ANSI/TPI 1-2014 "National Design Standard for Metal-Plate-Connected Wood Truss Construction"
(6) BCSI "Guide to Good Practice for Handling, Installing & Bracing of Metal Plated Connected Wood Trusses"
(7) TPI DSB "Recommended Design Specification for Temporary Bracing of Metal Plate Connected Wood Trusses"
(8) APA Report TT-045B "Minimum Nail Penetration for Wood Structural Panel Connections Subject to Lateral Loads"

SUBMITTALS: Submit shop drawings to the Architect/Engineer for review. Shop drawings shall include member size, spacing, camber, material type, grade, shop and field assembly details and connections, types and location of bolts and other fasteners. Supply shop drawings for the following:
(1) Glued laminated members

DEFERRED SUBMITTALS: Submit product data and proof of ICC approval for framing members and fasteners that have been designed by others. Submit calculations prepared by the SSE in the state of [Washington] for all members and connections designed by others along with shop drawings. All necessary bridging, blocking, blocking panels and web stiffeners shall be detailed and furnished by the supplier. Temporary and permanent bridging shall be installed in conformance with the manufacturer's specifications. Deflection limits shall be as noted under DEFFERRED SUBMITTLALS section specific details. Products included are:

- Metal plate connected trusses (prefabricated trusses) Conform to IBC Section 2303.4. [HUD Truss Connector Bulletin for Metal Plate Connected Wood Trusses is required.] Truss Supplier to provide design and materials for all permanent truss bracing. Shop drawings shall provide for shapes, bearing points, intersections, hips, and valleys shown on the drawings. The manufacturer shall provide special hip, valley and intersection areas (step down trusses, jack trusses and girder trusses) unless specifically indicated on the plans. Provide all truss-to-truss and truss-to-support connection details and required connection materials. Specify temporary and permanent bracing and connections on the shop drawings. Provide all truss reactions on shop drawings.

IDENTIFICATION: All sawn lumber and pre-manufactured wood products shall be identified by the grade mark or a certificate of inspection issued by the certifying agency.

MATERIALS:

- Sawn Lumber: Conform to grading rules of WWPA, WCLIB or NLGA and Table below. Finger jointed studs acceptable at interior walls only.

**TABLE of SOLID SAWN LUMBER**

| Member Use | Size | Species | Grade |
|---|---|---|---|
| Wall Stud | 2x4, 3x4, 2x6, 3x6 | Doug Fir Larch | No. 2 |
| Sill Plate | 2x4, 3x4, 2x6, 3x6 | PT Doug Fir Larch | No. 2 |
| Post | 4x4, 4x6, 4x8 | Doug Fir Larch | No. 2 |
| Floor or Roof Joist | 2x6 through 2x12 | Doug Fir Larch | No. 2 |
| Beam | 4x8 through 4x12 | Doug Fir Larch | No. 2 |
| Beam | 6x8 through 6x12 | Doug Fir Larch | No. 1 |
| Post or Timber | 6x6, 8x8 | Doug-Fir Larch | No. 1 |

- Glued Laminated Timber: Conform to AITC 117-**2010** "Standard Specifications for Structural Glue-laminated Timber of Softwood Species, Manufacturing and Design" and ANSI/AITC A190.1 "Structural Glued Laminated Timber." Camber all glued laminated beams, except cantilevered and continuous beams, to 3000' radius, unless shown otherwise on the plans. Fabricate cantilevered and continuous beams flat, unless shown otherwise on plans.

**TABLE of GLULAM and GRADE**

| Member | Sizes | Species | Comb. Symbol | Uses |
|---|---|---|---|---|
| Beams | All | DF/DF | 24F–V4 | Simple Spans |
| Beams | All | DF/DF | 24F–V8 | Continuous or with Cantilever Spans |

- Wood Structural Sheathing (Plywood): Wood APA-rated structural sheathing includes: all veneer plywood, oriented strand board, waferboard, particleboard, T1-11 siding, and composites of veneer and wood based material with T&G joint. **Architect** may disallow OSB. Confirm with **Architect**. Conform to "Construction and Industrial Plywood" based on Product Standard PS 1-09 by the U.S. Dept. of Commerce, and "Performance Standard for Wood-Based Structural-Use Panels" based on Product Standard PS 2-10 by the U.S. Dept. of Commerce and "Plywood Design Specification" based on APA D510C-12 by the American Plywood Association. Unless noted otherwise, sheathing shall comply with the following table:

**TABLE of SHEATHING - Use, Minimum Thickness and Minimum APA Rating**

| Location | Thickness | Span Rating | Plywood Grade | Exposure |
|---|---|---|---|---|
| Roof | 19/32" | 40/20 | C-D | 1 |
| Walls | 15/32" | 32/16 | C-D | 1 |

Unless noted otherwise on drawings, install roof and floor panels with long dimension across supports and with panel continuous over two or more spans. End joints shall occur over supports.

- Timber Connectors: Shall be "Strong Tie" by Simpson Company as specified in their latest catalog. Alternate connectors by other manufacturers may be substituted provided they have current ICC approval for equivalent or greater load capacities and are reviewed and approved by the SER prior to ordering. Connectors shall be installed per the manufacturer's instructions. Where connector straps connect two members, place one-half of the nails or bolts in each member. Where straps are used as hold-downs, nail straps to wood framing just prior to drywall application, as late as possible in the framing process to allow the wood to shrink and the building to settle. Premature nailing of the strap may lead to strap buckling and potential finish damage.

  Where connectors are in exposed exterior applications in contact with preservative treated wood (PT) other than CCA, connectors shall be either batch hot-dipped galvanized (HDG), mechanically galvanized (ASTM B695, Class 55 minimum) stainless steel, or provided with 1.85 oz/sf of zinc galvanizing equal to or better than Simpson ZMAX finish.

  Nail straps to wood framing as late as possible in the framing process to allow the wood to shrink and the building to settle. Premature nailing of the strap may lead to strap buckling and potential finish damage.

- Fasteners (nails, bolts, screws, etc) attaching timber connectors (joist hangers, post caps and bases, etc) to PT wood shall have similar corrosion resistance properties (matching protective treatments) as the protected connector. Fasteners (nails, bolts, screws, etc) attaching sawn timber members or sheathing (shear walls) to PT wood shall be corrosion resistant; nails and lag bolts shall be either HDG (ASTM A153) or stainless steel. Verify the suitability of the fastener protection/coating with the wood treatment chemical manufacturer/supplier.

  Provide washers under the heads and nuts of all bolts and lag screws bearing on wood.

- Lag Bolts/Bolts: Conform to ASTM A307 and IBC Section 2304.10.
- Nails and Staples: Conform to ASTM F1667 and IBC Sections 2303.6 and 2304.10.
- Engineered Wood Products (TrusJoist): The following materials are based on lumber manufactured by TrusJoist and were used for the design as shown on the plans. Alternate products by other manufacturers may be substituted provided they have current ICC approval for equivalent or greater load and stiffness properties and are reviewed and approved by the Structural Engineer prior to ordering.

  a. Laminated Veneer Lumber (LVL): Conform to **ICC ES Report No. ESR-1387** or CCMC Report No. 08675–R.
  b. Parallel Strand Lumber (PSL): Conform to **ICC ES Report No. ESR-1387** or CCMC Report No. 11161–R.
  c. Laminated Strand Lumber (LSL): Conform to **ICC ES Report No. ESR-1387** or CCMC Report No. 12627–R.
  d. Parallel Chord I-JOISTS (Deferred Submittal): Conform to **ICC Report No. ESR-1153** or CCMC Report No. 13132-R. The manufacturer shall design the joists for the spans and conditions shown on the plans. Joists shall have wood chords and solid wood webs.

**TABLE of ENGINEERED WOOD Requirements**

| Type | Use | Widths | E(10⁶) | Fb | Fv | Fc// |
|---|---|---|---|---|---|---|
| | | | PSI | PSI | PSI | PSI |
| LSL Rimboard | Rimboard or Stair Stringer | 1 ½" | 1.3E | 1,700 | 425 | 1,835 |
| Timberstrand LSL | Rimboard, Header or Beam ≥ 9" depth | 1 ¾", 3 ½" | 1.55E | 2,325 | 310 | 2,170 |
| Microllam LVL | Header, Beam | 1 ¾" | 2.0E | 2,600 | 285 | 2,510 |

NAILING REQUIREMENTS: Conform to IBC Section 2304.10 "Connections and fasteners." Unless noted on plans, nail per Table 2304.10.1 Nailing for roof/floor diaphragms/shear walls shall be per drawings. Nails shall be driven flush and shall not fracture the surface of sheathing. Alternate nails may be used but are subject to review and approval by the Structural Engineer. Substitution of staples for the nailing of rated sheathing is subject to review by the structural engineer prior to construction.

STANDARD LIGHT-FRAME CONSTRUCTION: Unless noted on the plans, construction shall conform to IBC Section 2308 "Conventional Light-Frame Construction."

MOISTURE CONTENT: Wood material used for this project shall have maximum moisture content of 19% except for the pressure-treated wood sill plate. Refer to TESTING & INSPECTIONS for the verification of these limits. The maximum moisture content required may be less than 19% when based on a particular cladding/insulation system. Refer to the Architect's drawings, and project specifications, or with cladding installer for maximum recommended moisture content.

CLADDING COMPATIBILTY: The Architect/Owner shall review the cladding and insulation systems proposed for the project with respect to their performance over wood studs with moisture contents greater than 19%. EIFS systems should be avoided on wood-framed projects due to problems with moisture proofing.

PRESERVATIVE TREATMENT (PT): Wood materials are required to be "treated wood" in accordance with IBC Section 2304.12. "Protection Against Decay and Termite Protection" shall conform to the appropriate standards of the American Wood-Preservers Association (AWPA) for sawn lumber, glued laminated timber, round poles, wood piles and marine piles. Follow American Lumber Standards Committee (ALSC) quality assurance procedures. Products shall bear the appropriate mark. Fasteners or anchors in treated wood shall be of stainless steel or hot-dipped galvanized or as per IBC 2304.10.5.

Mud sill plates in normally dry interior applications may be treated with Sodium Borate (DOT - Disodium Octaborate Tetrahydrate) as recent studies have noted less connector corrosion potential than other available wood treatments or the original CCA treated sill plates. Wood treated with Sodium Borate shall be protected during shipment, storage and installation to minimize leaching of the water-soluble preservative from the lumber. Sodium borate pressure treated plates do not require hot-dipped galvanized connectors.

If using sill plates other than CCA or sodium borate, fasteners must be hot dipped galvanized or stainless steel. Fasteners (nails, bolts, screws, washers & lag screws) attaching timber connectors (joist hangers, post caps and bases, etc) to PT wood shall have similar corrosion resistance properties (matching protective treatments) as the protected connector; that is, use hot dipped galvanized or stainless steel fasteners. Fasteners (nails, bolts, screws, washers & lag screws) attaching sawn timber members or sheathing (shear walls) to Pressure Treated wood shall be corrosion resistant (hot dipped galvanized or stainless steel).

Always verify the suitability of the fastener protection/coating with the wood treatment chemical manufacturer/supplier.

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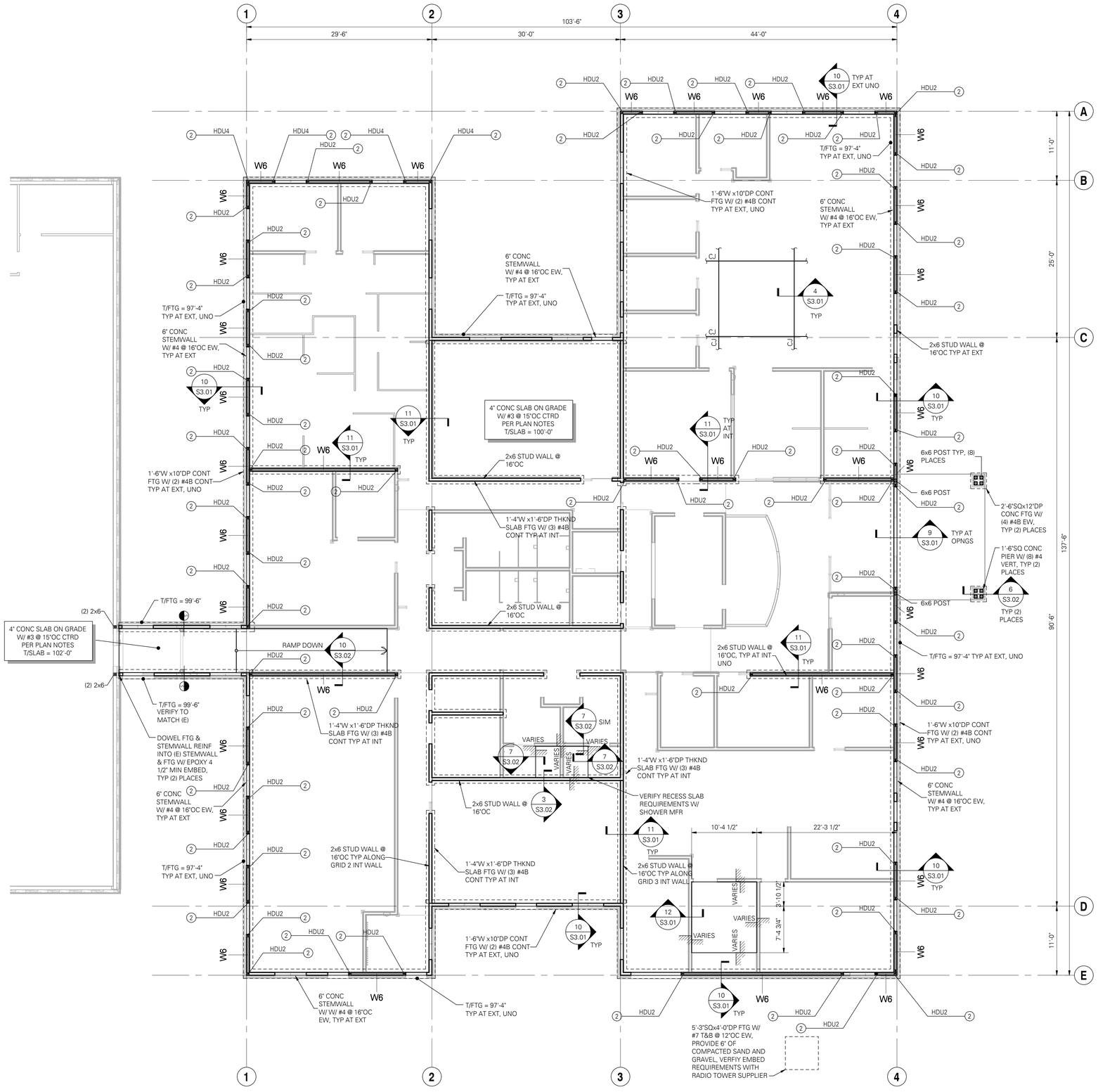
# IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500
## DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE
## 3284 INDUSTRIAL LOOP, COEUR D'ALENE ID, 83815

GENERAL NOTES

**AS-BUILT DOCUMENTS**
These As-Built Documents have been prepared based on information provided by others. DCI Engineers has not verified the accuracy and/or completeness of this information and shall not be responsible for any errors or omissions which may be incorporated herein as a result.

| | |
|---|---|
| PROJECT NO. | 16041-0177 |
| DESIGNED BY | Designer |
| DRAWN BY | Author |
| ISSUE DATE | 08.27.18 |
| PHASE | CLOSEOUT |
| CHECKED BY | Checker |
| REVISION | RECORD SET |
| SHEET NO. | |

S1.03




## FOUNDATION PLAN NOTES:

FOUNDATION NOTES:

1. STRUCTURAL GENERAL NOTES, DESIGN CRITERIA, ABBREVIATIONS AND LEGEND PER S1.01, S1.02, AND S1.03.

2. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS. ALL EXISTING DIMENSIONS SHALL BE FIELD VERIFIED. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.

3. CONTRACTOR SHALL LOCATE AND VERIFY THE FOLLOWING WITH OTHERS PRIOR TO POURING CONCRETE: ALL DOOR OPENINGS IN FOUNDATION WALLS; DRAINS AND SLOPES; BLOCKOUTS FOR PLUMBING AND HVAC. ALL DUCTS, CHASES AND PIPES PER MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS. STAIR DETAILS AND GUARDRAILS PER ARCHITECTURAL DRAWINGS. CONCRETE CURBS AND LOCATIONS PER ARCHITECTURAL DRAWINGS.

4. TOP OF SLAB (T/SLAB) ELEVATION ASSUMED 0'-0". FOR ACTUAL T/SLAB ELEVATION REFER TO CIVIL AND ARCHITECTURAL DRAWINGS. PROVIDE 15 MIL VAPOR BARRIER BELOW SLAB AT INTERIOR SPACES. PROVIDE FREE-DRAINING GRANULAR FILL PER GEOTECH REPORT IN SPECIFICATIONS.

5. TYPICAL TOP OF INTERIOR (T/INTERIOR) THICKENED SLAB ELEVATION = 100'-0", UNO. TYPICAL TOP OF EXTERIOR T/EXTERIOR) FOOTING ELEVATIONS = 97'-4", UNO.

6. ALL FOOTINGS AND SLABS TO BEAR ON COMPETENT NATIVE SOIL AND/OR STRUCTURAL FILL. SUBGRADE PREPARATION, STRUCTURAL FILL, FOOTING DRAINS, AND OTHER REQUIREMENTS PER GEOTECH REPORT AS NOTED IN THE STRUCTURAL GENERAL NOTES.

7. CJ INDICATES CONTROL JOINT PER PLAN.

8. ALL WOOD EXPOSED TO CONCRETE, WEATHER, OR WITHIN 8" OF FINISHED GRADE SHALL BE PRESSURE-TREATED.

9. MOISTURE PROOF ALL CONCRETE STEM WALLS PER ARCHITECT.

10. TYPICAL DETAILS PER:

| | |
|---|---|
| 1/S3.01 | TYPICAL LAP SPLICE & DEVELOPMENT SCHEDULE |
| 2/S3.01 | STANDARD HOOKS AND BAR BENDS |
| 3/S3.01 | PIPE OR CONDUIT EMBEDDED IN SLAB ON GRADE |
| 4/S3.01 | TYPICAL SLAB ON GRADE JOINT DETAILS WITH REINFORCING |
| 7/S3.01 | TYPICAL PIPE AND TRENCH LOCATIONS AT CONCRETE STEMWALL/FOOTING |
| 5/S3.01 | PLAN - TYPICAL CORNER REINFORCING AT CONCRETE WALLS |
| 6/S3.01 | PLAN - TYPICAL CORNER REINFORCING AT CONCRETE FOOTINGS |
| 11/S3.02 | HOLD-DOWN STRAP SCHEDULE |

STUD AND SHEAR WALL NOTES:

1. LUMBER GRADE PER STRUCTURAL GENERAL NOTES.

2. ALL INTERIOR NON-BEARING, NON-STRUCTURAL WALL STUD REQUIREMENTS PER STRUCTURAL GENERAL NOTES.

3. HEADERS SHOWN ON FRAMING PLAN SHALL BE SUPPORTED BY (1) TRIMMER AND (1) KING STUD MINIMUM, UNO. WHERE MORE THAN (1) TRIMMER IS REQUIRED, THE NUMBER OF TRIMMER STUDS SHALL BE NOTED THUS: ■-② , TRIMMERS TO BE CONTINUOUS TO THE BOTTOM PLATE.

4. BEAMS SHOWN ON FRAMING PLAN SHALL BE SUPPORTED BY (2) BUNDLED STUDS MINIMUM, UNO. WHERE MORE THAN (2) BUNDLED STUDS ARE REQUIRED, THE NUMBER OF BUNDLED STUDS SHALL BE NOTED THUS: ■-③ , BUNDLED STUDS TO BE CONTINUOUS TO THE BOTTOM PLATE.

5. SHEAR WALL AND NAILING REQUIREMENTS PER SHEAR WALL SCHEDULE 5/S4.01.

6. SHEAR WALL CALL OUT INDICATOR SIDE OF THE WALL THAT SHEATHING SHALL BE INSTALLED ON.

7. ANCHOR BOLTS TO BE 5/8" DIA x 7" MINIMUM EMBEDMENT PER 4/S3.02 & 8/S3.02. PROVIDE HOT-DIPPED GALVANIZED ANCHOR BOLTS AT PRESSURE-TREATED SILL PLATES. HOT-DIPPED GALVANIZED ANCHOR BOLTS ARE NOT REQUIRED AT SODIUM BORATE PRESSURE TREATED PLATES PER STRUCTURAL GENERAL NOTES

8. TYPICAL DETAILS PER:

| | |
|---|---|
| 3/S4.01 | TYPICAL SHEAR WALL ELEVATION |
| 4/S4.01 | TYPICAL STUD WALL OPENING (HEADER) DETAIL |
| 5/S4.01 | SHEAR WALL SCHEDULE |
| 7/S4.01 | TYPICAL TOP PLATE SPLICE DETAIL |
| 9/S4.02 & 10/S4.02 | PLAN - INTERSECTING SHEAR WALLS |

**FOUNDATION PLAN**
SCALE: 1/8" = 1'-0"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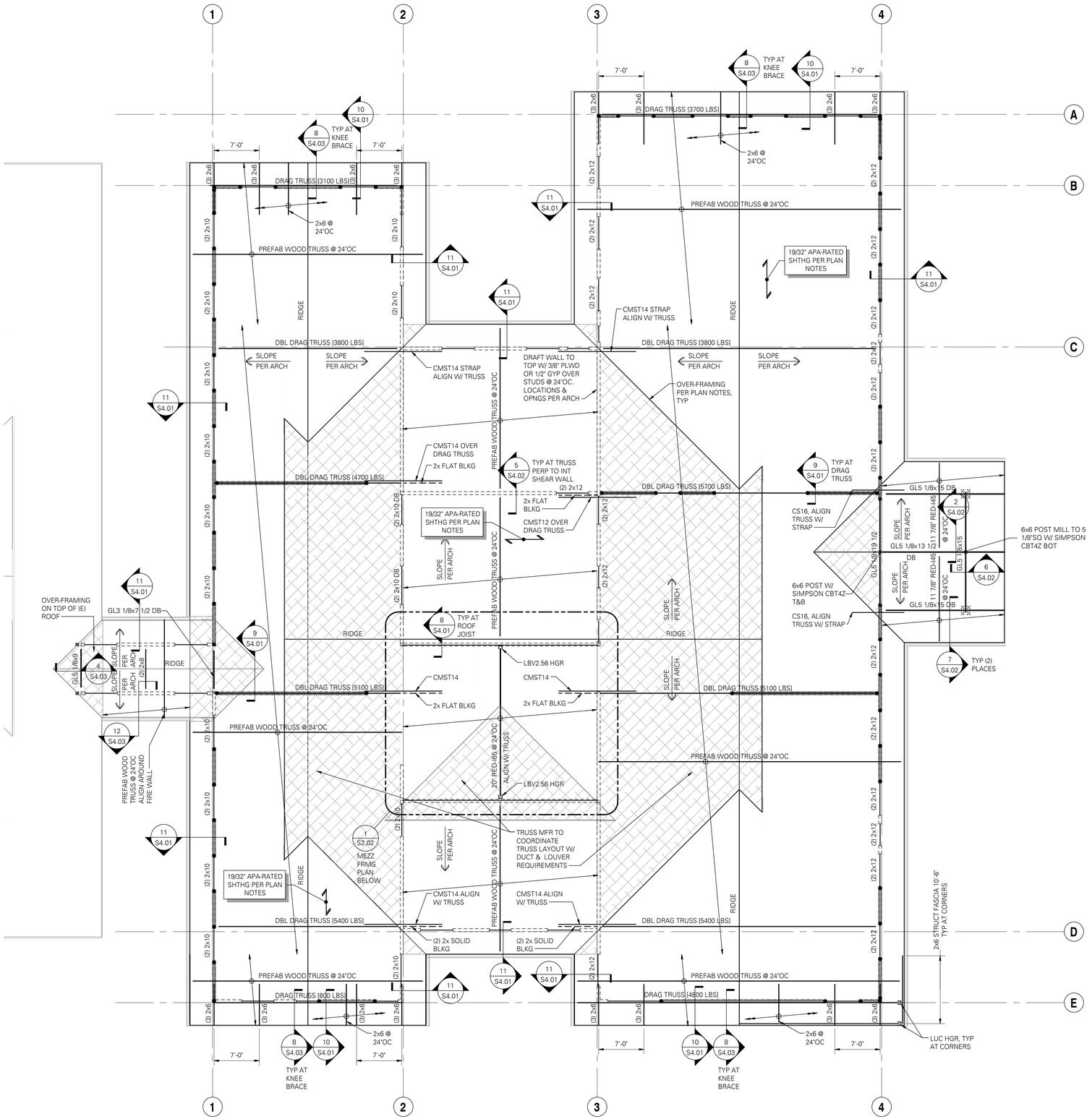
# IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500
## DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE
## 3284 INDUSTRIAL LOOP, COEUR D'ALENE ID, 83815

FOUNDATION PLAN

| | |
|---|---|
| PROJECT NO. | 16041-0177 |
| DESIGNED BY | KEA TB |
| DRAWN BY | JLP |
| ISSUE DATE | 08.27.18 |
| PHASE | CLOSEOUT |
| CHECKED BY | MDT |
| REVISION | RECORD SET |
| SHEET NO. | |

S2.01




## ROOF FRAMING PLAN

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

## ROOF FRAMING PLAN NOTES:

1. STRUCTURAL GENERAL NOTES, DESIGN CRITERIA, ABBREVIATIONS AND LEGEND PER S1.01, S1.02, AND S1.03.

2. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECT'S DRAWINGS. ALL EXISTING DIMENSIONS SHALL BE FIELD VERIFIED.

3. ALL DUCTS, CHASES AND PIPES SHALL BE PER MECHANICAL, PLUMBING, AND ELECTRICAL.

4. ROOF SHEATHING PER PLAN AND STRUCTURAL GENERAL NOTES. SHEATHING TO BE NAILED TO ROOF FRAMING WITH 0.131"DIAx2 1/2" NAILS @ 6"OC AT PANEL EDGES AND @ 12"OC FIELD, UNO. LAY SHEATHING WITH FACE GRAIN (LONG DIRECTION) PERPENDICULAR TO SUPPORTS AND STAGGER PANEL END JOINTS. ALLOW 1/8" SPACE BETWEEN PANEL ENDS AND EDGES. PROVIDE PANEL SHEATHING CLIPS CENTERED BETWEEN FRAMING AT UNBLOCKED SHEATHING EDGES AS REQUIRED BY ROOFING WARRANTY.

5. ALL 2x HANGERS TO BE TOP FLANGE BEARING SIMPSON JB TYPE, UNO. GLULAM, PARALLAM AND MICROLLAM HANGERS ARE AS SPECIFIED ON PLAN.

6. HEADERS SHOWN BUT NOT SPECIFIED ARE TO BE (2) 2x8 MINIMUM. HEADER SUPPORTS PER STUD AND SHEAR WALL PLAN ON FLOOR BELOW.

7. BEAMS ARE FLUSH FRAMED WITH JOISTS UNLESS NOTED OTHERWISE ON DETAILS, OR ON PLANS AS "DB" INDICATING THAT DROPPED BEAM FRAMING IS REQUIRED. BEAM SUPPORTS PER STUD AND SHEAR WALL PLAN ON LEVEL BELOW. PROVIDE A35 CLIP EACH SIDE OF FLUSH BEAMS THAT BEAR ON DOUBLE TOP PLATES.

8. PROVIDE SIMPSON H2.5A TIES AT ALL TRUSSES TYPICAL

9. PROVIDE SOLID BLOCKING OVER ALL SHEAR WALLS AND BEARING WALLS. AT SHEAR WALLS PARALLEL TO FRAMING, ALIGN JOIST OR TRUSS OVER SHEAR WALL (ADDITIONAL JOISTS OR TRUSSES MAY BE REQUIRED).

10. HORIZONTAL STRAP TIES INDICATED ON THE FRAMING PLAN ARE TO BE CENTERED OVER WALL TOP PLATE AND/OR HEADER, BLOCKING OR BEAM. NAIL [STRAP TYPE] WITH (XX) x 1 1/2" NAILS @ 3'OC EACH END AND (XX) x 1 1/2" NAILS @ 12"OC INTERMEDIATE. SPLICE REQUIREMENTS PER STRAP MANUFACTURER SPECIFICATIONS.
PER HORIZONTAL STRAP FASTENER SCHEDULE 4/S4.03.

11. ALL RIM JOISTS AND BLOCKING TO BE 1 1/2" LSL MINIMUM UNO.

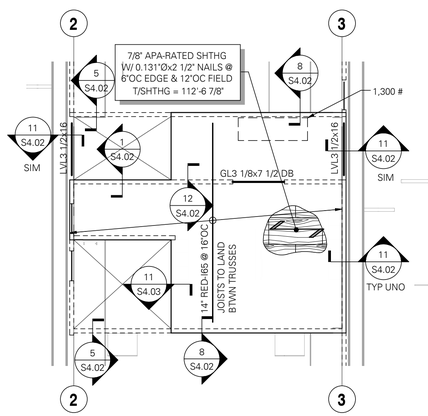
12. ROOF TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING CRITERIA:

- ROOF SYSTEM TO BE BIDDER DESIGNED. ROOF PLAN SHOWN IS A SUGGESTED LAYOUT. CHANGES MUST BE SUBMITTED TO THE ENGINEER-OF-RECORD THRU THE ARCHITECT WITH BEARING POINTS AND REACTIONS TO STRUCTURE.
- TRUSS LAYOUT SHOWN IS APPROXIMATE. TRUSS SUPPLIER IS RESPONSIBLE FOR FINAL TRUSS LAYOUT AND CONFIGURATION. NOTIFY ENGINEER OF REVISIONS TO PLAN.
- STANDARD DEAD AND LIVE LOADS AND SUBMITTAL INFORMATION PER STRUCTURAL GENERAL NOTES.
- [2000LBS] INDICATES SHEAR TRANSFER LOAD (SERVICE LEVEL) IN ROOF TRUSS TO BE LOCATED ABOVE SHEAR WALLS TRUSS. MANUFACTURER SHALL DESIGN THESE TRUSSES FOR THE BRACKETED LATERAL LOAD SPECIFIED ON PLAN, IN ADDITION TO THE DESIGN DEAD AND LIVE LOADS AT SERVICE LEVEL.
- SHADED REGION INDICATES APPROXIMATE AREA OF OVER-FRAMING. TRUSS MANUFACTURER IS RESPONSIBLE FOR DESIGNING THE OVER-FRAMING REQUIRED. TRUSSES SHALL BE DESIGNED TO SUPPORT OVER-FRAMING IN ADDITION TO THE SPECIFIED DESIGN LOADS.
- ALL GIRDER TRUSSES SHALL BE SUPPORTED BY A MINIMUM OF TWO STUDS. TRUSS MANUFACTURER TO SUBMIT TO ENGINEER GIRDER TRUSSES REACTIONS.
- ALL MULTIPLE STUDS SUPPORTING HIP MASTER AND GIRDER TRUSSES TO CONTINUE TO FOUNDATION.
- ROOF TRUSSES SHALL BE DESIGNED FOR ADDITIONAL LOADS FROM MECHANICAL UNITS AND PIPING. CONTRACTOR TO PROVIDE THE TRUSS SUPPLIER WITH LOCATIONS AND SUPPORT CONDITIONS OF ALL MECHANICAL, ELECTRICAL, PLUMBING, AND SPRINKLER LOADS. SPECIAL TRUSS SHAPES AND OPENING REQUIREMENTS ARE AS DESIGNATED ON PLANS.
- PROVIDE SIMPSON H1 OR H2.5A HURRICANE TIES AT ALL ROOF TRUSSES AND ROOF JOISTS, TYPICAL.
- TRUSS HANGERS SHALL BE SUPPLIED AND DESIGNED BY THE TRUSS SUPPLIER.
- TRUSS MANUFACTURER TO DESIGN BEARING AT TOP PLATES FOR COMPRESSION PERPENDICULAR TO GRAIN $f'c = 625psi$.

13. BEARING STUD, SHEAR WALL, HOLD-DOWN, POST SIZE, AND POST CAP AND BASE REQUIREMENTS BELOW PER STUD AND SHEAR WALL PLAN.

14. TYPICAL DETAILS PER:

12/S4.01 HORIZONTAL STRAP FASTENER SCHEDULE
3/S4.02 STANDARD ROOF OVERFRAMING




NOTE:

RIM JOISTS ARE TO BE LSL1 1/2x14.

## 1 MEZZANINE FRAMING PLAN

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

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## DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE
## 3284 INDUSTRIAL LOOP, COEUR D'ALENE ID, 83815

ROOF FRAMING PLAN

| | |
|---|---|
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| DESIGNED BY | KEA TB |
| DRAWN BY | JLP |
| ISSUE DATE | 08.27.18 |
| PHASE | CLOSEOUT |
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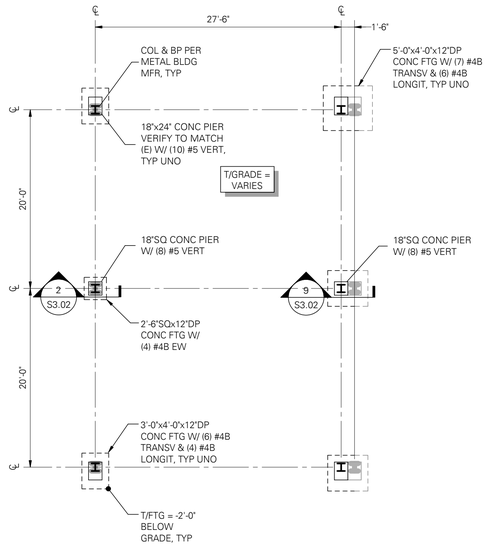
| REVISION | RECORD SET |
| SHEET NO. | S2.02 |




NOTE:

FOUNDATION PLAN NOTES PER S2.01.

## PARKING CANOPY FOUNDATION PLAN

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

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# IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500

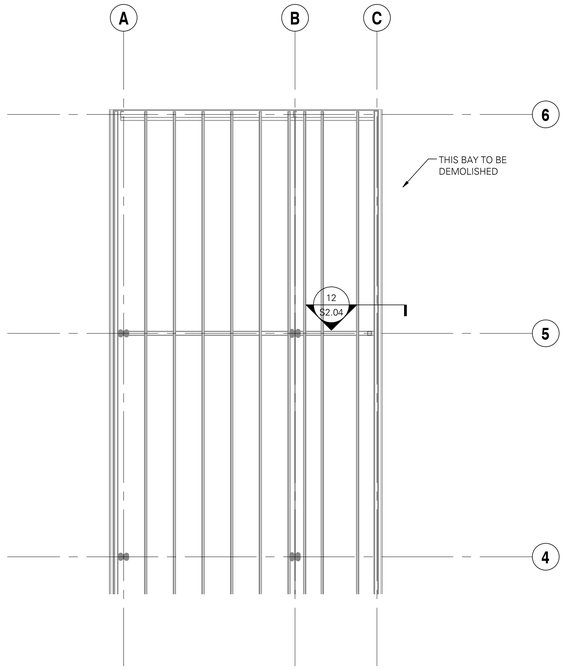
## DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE

3284 INDUSTRIAL LOOP, COEUR D'ALENE ID, 83815

GARAGE ADDITION FOUNDATION PLAN

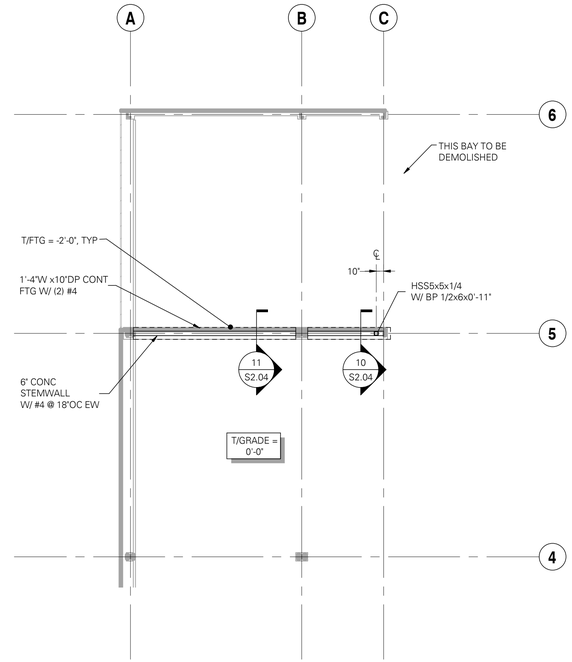
| | |
|---|---|
| PROJECT NO. | 16041-0177 |
| DESIGNED BY | KEA TB |
| DRAWN BY | JLP |
| ISSUE DATE | 08.27.18 |
| PHASE | CLOSEOUT |
| CHECKED BY | MDT |
| REVISION | RECORD SET |
| SHEET NO. | S2.03 |

PLOTTED: 8/21/2018 4:00:23 PM FILE PATH: C:_localrevit\Struct-16041-0177-R2016_Justin.Hancock.rvt




## STORAGE BUILDING ROOF FRAMING PLAN

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

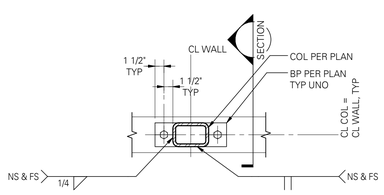



## STORAGE BUILDING FOUNDATION PLAN

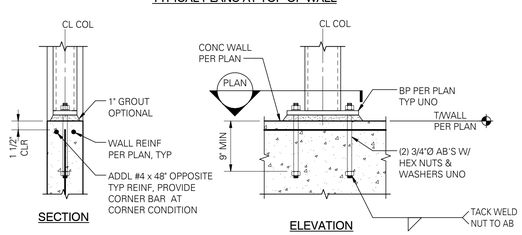
SCALE: 1/8" = 1'-0"

NOTE:

FOUNDATION PLAN NOTES PER S2.01.

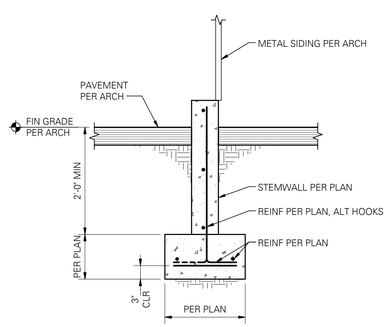



TYPICAL PLANS AT TOP OF WALL



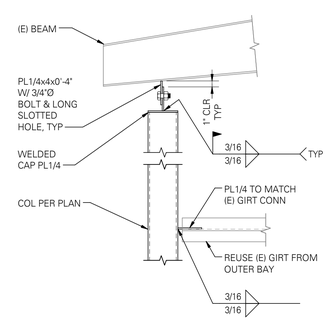

## 10 TYPICAL BASEPLATE TO CONCRETE WALL CONNECTION - HSS COLUMN

SCALE: 1" = 1'-0" (05032M)




## 11 STEMWALL DETAIL

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




NOTE:

USE GIRT CONNECTION ON EXISITNG WIDE FLANGE COLUMNS.

## 12 HSS WIND COLUMN CONNECTION

SCALE: 1" = 1'-0"

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# IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500

## DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE

3284 INDUSTRIAL LOOP, COEUR D'ALENE ID, 83815

STORAGE BUILDING DEMOLITION PLAN

| | |
|---|---|
| PROJECT NO. | 16041-0177 |
| DESIGNED BY | KEA TB |
| DRAWN BY | JLP |
| ISSUE DATE | 08.27.18 |
| PHASE | CLOSEOUT |
| CHECKED BY | MDT |
| REVISION | RECORD SET |
| SHEET NO. | |

S2.04

| 01400 | GRADE 60 REINFORCING | | | | |
|---|---|---|---|---|---|
| BAR SIZE | MISCELLANEOUS BARS | | TOP BARS (see note #5) | | HOOKED BARS |
| | Ld | Splice | Ld | Splice | Ldh |
| f'c = 3000psi | | | | | |
| #3 | 17 | 22 | 22 | 28 | 9 |
| #4 | 22 | 29 | 29 | 38 | 11 |
| #5 | 28 | 36 | 36 | 47 | 14 |
| #6 | 33 | 43 | 43 | 56 | 17 |
| #7 | 48 | 63 | 63 | 81 | 20 |
| #8 | 55 | 72 | 72 | 93 | 22 |
| #9 | 62 | 81 | 81 | 105 | 25 |
| #10 | 70 | 91 | 91 | 118 | 28 |
| #11 | 78 | 101 | 101 | 131 | 31 |
| #14 | 93 | N/A | 121 | N/A | 38 |
| #18 | 124 | N/A | 161 | N/A | 50 |

NOTES:

1. ALL TABULATED VALUES ARE IN INCHES.

2. VALUES FOR UNCOATED REINFORCING AND NORMAL WEIGHT CONCRETE WITH CLEAR SPACING > db, CLEAR COVER > db AND MINIMUM STIRRUPS OR TIES THROUGHOUT Ld OR CLEAR SPACING > 2db AND CLEAR COVER > db.

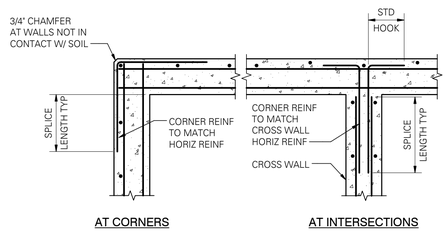
3. DEVELOP ALL REINFORCING IN STRUCTURAL SLABS WITH MINIMUM DEVELOPMENT LENGTH Ld.

4. Ldh = DEVELOPMENT LENGTH OF BAR WITH STANDARD HOOK.

5. TOP BAR = HORIZONTAL BAR WITH MORE THAN 12" OF FRESH CONCRETE BELOW OR AS NOTED ON DOCUMENTS AS "TOP BAR".

## 1 TYPICAL LAP SPLICE AND DEVELOPMENT LENGTH SCHEDULE

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




AT CORNERS AT INTERSECTIONS

NOTES:

1. SPLICE LENGTHS PER LAP SPLICE AND DEVELOPMENT LENGTH SCHEDULE.

2. WALL REINFORCING PER PLAN OR ELEVATIONS, SECTIONS AND DETAILS.

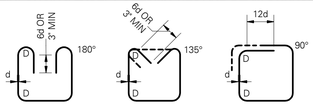
3. AT FOOTINGS AND STEMWALLS, CORNER REINFORCING TO MATCH FOOTING AND STEMWALL HORIZONTAL REINFORCING.

## 2 STANDARD HOOKS AND BENDS

SCALE: 3/4" = 1'-0" (03400)

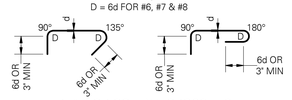
D = 6d FOR #3 THRU #8
D = 8d FOR #9, #10 & #11
D = 10d FOR #14 & #18

ALL REINFORCING EXCEPT COLUMN TIES AND BEAM STIRRUPS




STIRRUP STIRRUP OR TIE

D = 4d FOR #3, #4 & #5
D = 6d FOR #6, #7 & #8



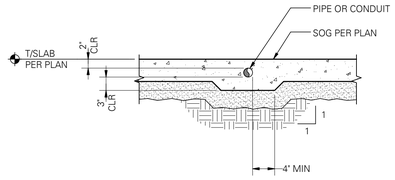

BEAM OR COLUMN CROSSTIES

BEAM STIRRUPS AND COLUMN TIES

d = BAR DIAMETER, D = BEND DIAMETER

## 3 PIPE OR CONDUIT EMBEDDED IN SLAB ON GRADE

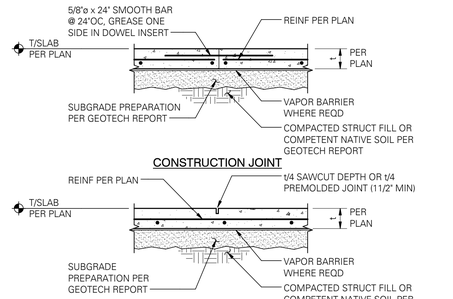
SCALE: 3/4" = 1'-0" (03204)




NOTE:
ALUMINUM MATERIALS SHALL NOT BE EMBEDDED IN CONCRETE.

## 4 TYPICAL SLAB ON GRADE JOINT DETAILS WITH REINFORCING

SCALE: 3/4" = 1'-0" (03201)




NOTES:

1. USE "EARLY ENTRY DRY-CUT SAW" AS SOON AS POSSIBLE WITHOUT CAUSING RAVELING OF CONCRETE EDGES. SAWCUT ALONG SHORT DIRECTION OF POUR FIRST.

2. ALIGN A CONSTRUCTION OR CONTROL JOINT WITH RE-ENTRANT SLAB CORNERS, EACH WAY, TYPICAL.

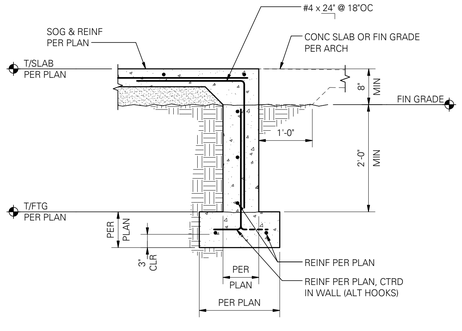
CONTROL JOINT

3. CONSTRUCTION/CONTROL JOINT TO ENCLOSE APPROXIMATE SQUARE AREAS 225 SQUARE FEET MAXIMUM, WITH MAXIMUM PANEL ASPECT RATIO OF 1.3 TO 1.0.

4. CONTRACTOR TO SUBMIT CONSTRUCTION/CONTROL JOINT PLAN TO STRUCTURAL ENGINEER OF RECORD FOR REVIEW/APPROVAL.

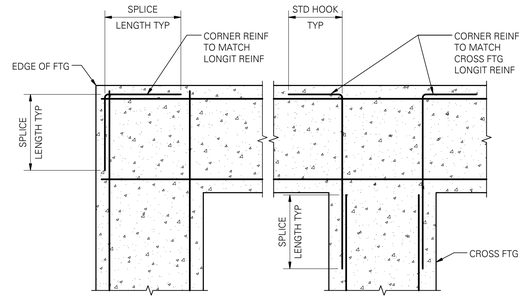
## 5 PLAN - TYPICAL CORNER REINFORCING AT CONCRETE WALLS

SCALE: 3/4" = 1'-0" (03403-DOUBLE MAT)




## 6 PLAN - TYPICAL CORNER REINFORCING AT CONCRETE FOOTINGS

SCALE: 3/4" = 1'-0" (03907)




AT CORNERS AT INTERSECTIONS

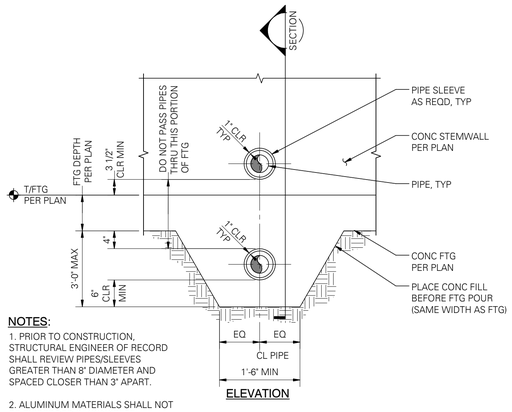
NOTE:

1. SPLICE LENGTHS PER LAP SPLICE AND DEVELOPMENT LENGTH SCHEDULE.

2. FOOTING REINFORCING PER PLAN OR ELEVATIONS, SECTIONS AND DETAILS.

## 7 TYPICAL PIPE AND TRENCH LOCATIONS AT CONCRETE STEMWALL/FOOTING

SCALE: 3/4" = 1'-0" (03906)

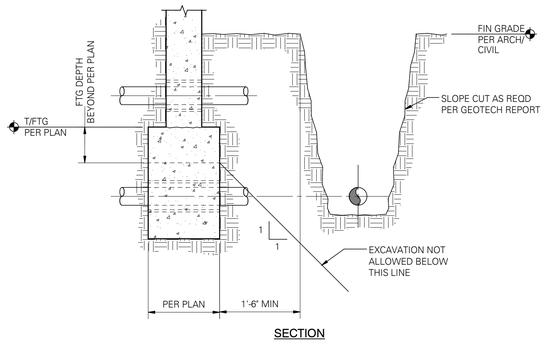



ELEVATION

NOTES:

1. PRIOR TO CONSTRUCTION, STRUCTURAL ENGINEER OF RECORD SHALL REVIEW PIPES/SLEEVES GREATER THAN 8" DIAMETER AND SPACED CLOSER THAN 3' APART.

2. ALUMINUM MATERIALS SHALL NOT BE EMBEDDED IN CONCRETE.




SECTION

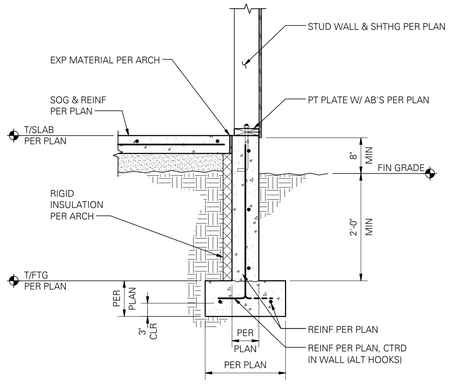
## 9 CONCRETE SLAB AND STEMWALL

SCALE: 3/4" = 1'-0" (03033)



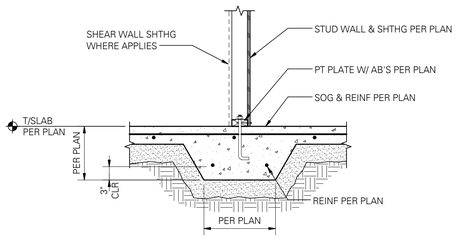

## 10 EXTERIOR FOOTING AND STEMWALL AT STUD WALL

SCALE: 3/4" = 1'-0" (03031)




## 11 INTERIOR THICKENED SLAB FOOTING AT STUD WALL

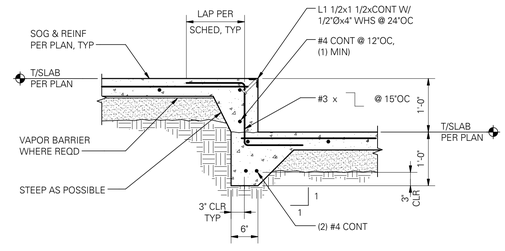
SCALE: 3/4" = 1'-0" (03020)




NOTE:
HORIZONTAL COLD JOINT BETWEEN FOOTING AND SLAB NOT PERMITTED.

## 12 TYPICAL STEP AT SLAB ON GRADE

SCALE: 3/4" = 1'-0" (03202A)





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# IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500
## DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE
### 3284 INDUSTRIAL LOOP, COEUR D'ALENE ID, 83815

FOUNDATION DETAILS

**AS-BUILT DOCUMENTS**

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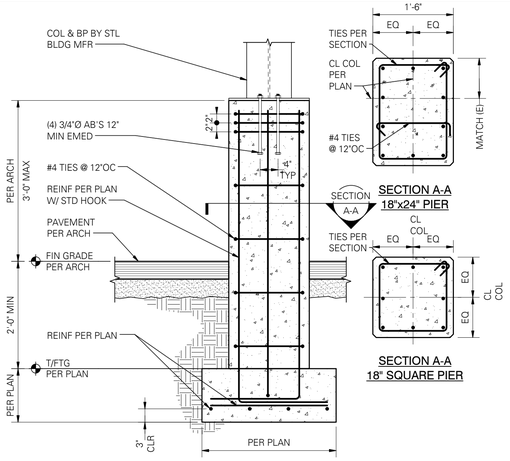
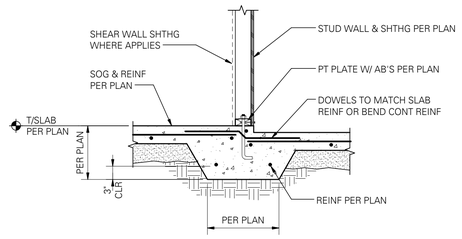
| | |
|---|---|
| PROJECT NO. | 16041-0177 |
| DESIGNED BY | KEA TB |
| DRAWN BY | JLP |
| ISSUE DATE | 08.27.18 |
| PHASE | CLOSEOUT |
| CHECKED BY | MDT |
| REVISION | RECORD SET |
| SHEET NO. | |

S3.01




## 2 PIER DETAIL

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



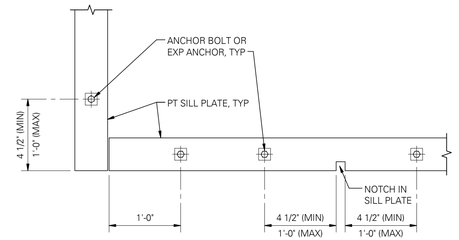

NOTE:

1. HORIZONTAL COLD JOINT BETWEEN FOOTING AND SLAB NOT PERMITTED.

2. DOWEL LENGTH PER 7/S3.02.

## 3 INTERIOR THICKENED SLAB FOOTING AT DEPRESSED SLAB

SCALE: 3/4" = 1'-0" (03020M)




NOTES:

1. USE 5/8"Ø ANCHOR BOLT PER 8/S3.02.

2. EACH SILL PLATE PIECE SHALL HAVE (2) BOLTS MINIMUM. HOLD-DOWN ANCHORS ARE NOT TO BE CONSIDERED AN ANCHOR BOLT.

3. LOCATE BOLTS WITHIN 1'-0" OF SILL PLATE PIECE ENDS AND AT 6'-0"OC MAXIMUM.

4. USE PLATE WASHER PER SHEAR WALL SCHEDULE AT EACH BOLT. STANDARD CUT WASHERS ARE ACCEPTABLE AT NON-SHEAR WALLS.

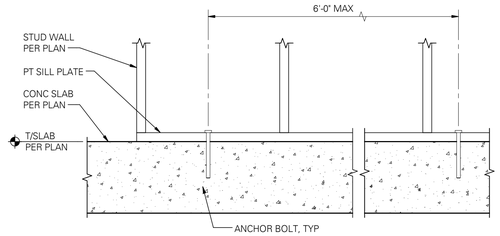
5. DO NOT DRILL OVERSIZE HOLES THRU SILL PLATE. USE 11/16"Ø DRILL BIT.

6. SILL PLATE THICKNESS AND FASTENING AT SHEAR WALLS PER SHEAR WALL SCHEDULE.

7. CONTACT THE ENGINEER-OF-RECORD FOR POST INSTALLED ANCHOR OPTIONS.

## 4 PLAN - TYPICAL SILL PLATE ANCHORAGE TO CONCRETE

SCALE: 1" = 1'-0" (06911)




NOTES:

1. USE 5/8"Ø ANCHOR BOLTS WITH 8" SIMPSON TITEN HD INTO CONCRETE SLAB.

2. EACH SILL PLATE PIECE SHALL HAVE (2) BOLTS MINIMUM. HOLD-DOWN ANCHORS ARE NOT TO BE CONSIDERED AN ANCHOR BOLT.

3. LOCATE BOLTS WITHIN 1'-0" OF SILL PLATE PIECE ENDS AND AT 6'-0"OC MAXIMUM.

4. USE PLATE WASHER PER SHEAR WALL SCHEDULE AT EACH BOLT. STANDARD CUT WASHERS ARE ACCEPTABLE AT NON-SHEAR WALLS.

5. DO NOT DRILL OVERSIZE HOLES THRU SILL PLATE. USE 11/16"Ø DRILL BIT.

6. SILL PLATE THICKNESS AND FASTENING AT SHEAR WALLS PER SHEAR WALL SCHEDULE.

7. CONTACT THE ENGINEER-OF-RECORD FOR POST INSTALLED ANCHOR OPTIONS.




PLAN




## 6 ENTRY PIER DETAIL

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

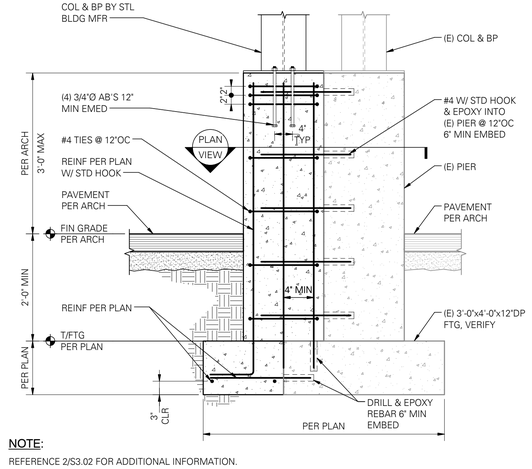



## 7 TYPICAL DEPRESSED SLAB DETAIL

SCALE: 3/4" = 1'-0" (03202)

## 8 TYPICAL SILL PLATE ANCHORAGE TO CONCRETE

SCALE: 1" = 1'-0" (06910M)

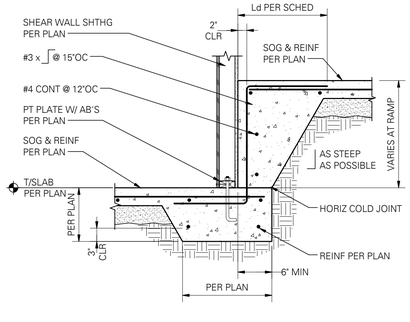



NOTE:

REFERENCE 2/S3.02 FOR ADDITIONAL INFORMATION.

## 9 PARKING CANOPY DOUBLE COLUMN LINE

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




NOTE:

HORIZONTAL COLD JOINT BETWEEN FOOTING AND SLAB NOT PERMITTED UNO.

## 10 INTERIOR THICKENED SLAB FOOTING AT STUD WALL

SCALE: 3/4" = 1'-0" (03020)

01420

## HOLD-DOWN/STRAP SCHEDULE - DOUG-FIR STUDS

[1, 2, 7, 11] INDICATES FOOTNOTES

| | TYPE | NUMBER OF STUDS/POST [3, 10] | NAILS, SCREWS OR BOLTS | ANCHOR [4] DIAMETER [8] | CONCRETE EMBEDMENT/CAPACITY STEMWALL [5] EMBED CIP [6, 11] | STEMWALL [5] CAPACITY | FOOTING EMBED CIP [6] | FOOTING CAPACITY | NOTES |
|---|---|---|---|---|---|---|---|---|---|
| CONCRETE TO WOOD | HDU2 | (2) 2x | (6) SDS1/4x2 1/2 | 5/8"Ø | 10" | 3.1k | 8" | 3.1k | [9] |
| | HDU4 | (2) 2x | (10) SDS1/4x2 1/2 | 5/8"Ø | 10" | 4.6k | 8" | 4.6k | [12] |
| | | | | | | | | | |

NOTES:

[1] SOME HOLD-DOWN TYPES MAY NOT BE USED ON THIS PROJECT.

[2] TYPICAL HOLD-DOWN DETAILS PER [X/SX.X] AND [X/SX.X]. ANCHOR REINFORCEMENT REQUIRED AT STEMWALLS.

[3] PROVIDE PANEL EDGE NAILING PER SHEAR WALL SCHEDULE AT HOLD-DOWN STUDS/POSTS.

[4] BASED ON MINIMUM f'c = 3000 PSI CONCRETE.

[5] STEMWALLS SHALL BE 8" WIDE x 18" TALL MINIMUM.

[6] CAST-IN-PLACE (CIP) TYPE THREADED RODS AT HOLD-DOWNS SHALL HAVE TWO HEX HEAD NUTS WITH OVERSIZED WASHERS.

[7] INCLUDES 1.6 LOAD DURATION INCREASE FOR WOOD.

[8] AT PRESSURE TREATED SILLS, USE HOT DIPPED GALVANIZED BOLTS.

[9] AT INTERIOR THICKENED SLAB ANCHOR BOLTS MAY BE EMBEDDED 10" IN ADHESIVE.

[10] NAIL LAMINATE MULTIPLE 2x STUDS WITH PLATE NAILING PER SHEAR WALL SCHEDULE.

[11] STUD WALLS SHALL BE 2x6, CENTER HOLD-DOWN IN STUD WALL.

[12] AT EXTERIOR WALLS EMBED 5/8"Ø THREADED ROD 10" IN ADHESIVE.

## 11 HOLD-DOWN/STRAP SCHEDULE - DOUG-FIR STUDS

SCALE: 1" = 1'-0" (01420)

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# IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500
## DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE
## 3284 INDUSTRIAL LOOP, COEUR D'ALENE ID, 83815

FOUNDATION DETAILS

**AS-BUILT DOCUMENTS**

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| | |
|---|---|
| PROJECT NO. | 16041-0177 |
| DESIGNED BY | KEA TB |
| DRAWN BY | JLP |
| ISSUE DATE | 08.27.18 |
| PHASE | CLOSEOUT |
| CHECKED BY | MDT |
| REVISION | RECORD SET |
| SHEET NO. | S3.02 |

01430

## SHEAR WALL SCHEDULE

W6 FOR 0.131"Ø x 2 1/2" NAILS IN DOUG-FIR LARCH (2015 IBC) [17]

SOME SHEAR WALL TYPES NOTED MAY NOT BE USED ON THIS PROJECT.

| WALL TYPE | WALL SHEATHING APA-RATED [1, 2, 12, 13] | NAIL SIZE & SPACING AT ALL PANEL EDGES [4, 5] | BLOCKING & STUD SIZE AT ADJOINING PANEL EDGES [3, 6, 14] | RIM JOIST OR BLOCKING CONN TO TOP PLATE BELOW [7, 8] | 2x PLATE ATTACHMENT | SILL PLATE ATTACHMENT | | SHEAR CAPACITY LBS/FT |
|---|---|---|---|---|---|---|---|---|
| | | | | | NAILING TO WOOD RIM JOIST OR BLOCKING BELOW | ANCHOR BOLT TO CONCRETE BELOW [10] | SILL PLATE AT FOUNDATION [11] | |
| W6 | 15/32" | 0.131"Ø x2 1/2" @ 6"OC | 2x | CLIP @ 16"OC | 0.148"Ø x3 1/4" @ 6"OC | 5/8"Ø @ 48"OC | 2x | 260 |

NOTES:

[1] INSTALL PANELS EITHER HORIZONTALLY OR VERTICALLY.

[2] WHERE SHEATHING IS APPLIED ON BOTH SIDES OF WALL, PANEL EDGE JOINTS ON 2x FRAMING SHALL BE STAGGERED SO THAT JOINTS ON THE OPPOSITE SIDES ARE NOT LOCATED ON THE SAME STUD.

[3] BLOCKING IS REQUIRED AT ALL PANEL EDGES.

[4] PROVIDE SHEAR WALL SHEATHING AND NAILING FOR THE ENTIRE LENGTH OF THE WALLS INDICATED ON THE PLANS. ENDS OF FULL HEIGHT WALLS ARE DESIGNATED BY WINDOWS OR DOORWAYS OR AS DESIGNATED ON PLANS. HOLD-DOWN REQUIREMENTS PER PLANS. (ALTERNATE NOTE: WALLS SHOWN WITH HORIZONTAL STRAPS BELOW AND/OR ABOVE OPENINGS REQUIRE SHEATHING, SHEAR WALL NAILING, ETC ABOVE AND BELOW ALL OPENINGS).

[5] SHEATHING EDGE NAILING IS REQUIRED AT ALL HOLD-DOWN POSTS. EDGE NAILING MAY ALSO BE REQUIRED TO EACH STUD USED IN BUILT-UP HOLD-DOWN POSTS. ADDITIONAL INFORMATION PER HOLD-DOWN DETAILS.

[6] INTERMEDIATE FRAMING TO BE 2x MINIMUM MEMBERS. ATTACH SHEATHING TO INTERMEDIATE FRAMING WITH 0.131"Ø x2 1/2" NAILS AT 12"OC WHERE STUDS ARE SPACED AT 16"OC AND 0.131"Ø x2 1/2" NAILS AT 6"OC WHERE STUDS ARE SPACED AT 24"OC.

[7] BASED ON 0.131"Ø x1 1/2" NAILS USED TO ATTACH FRAMING CLIPS DIRECTLY TO FRAMING. USE 0.131"Ø x2 1/2" NAILS WHERE INSTALLED OVER SHEATHING.

[8] FRAMING CLIPS: A35 OR LTP5 OR APPROVED EQUIVALENT.

[9] WHERE BOTTOM PLATE ATTACHMENT SPECIFIES (2) ROWS OF NAILS OR SCREWS, PROVIDE DOUBLE JOIST, RIM JOIST OR EQUAL BELOW. STAGGER NAILS/SCREWS IN ROWS 1 1/2" APART MINIMUM.

[10] ANCHOR BOLTS SHALL BE PROVIDED WITH HOT-DIPPED GALVANIZED STEEL PLATE WASHERS 0.229"x3"x3" MINIMUM. THE HOLE IN THE PLATE WASHER MAY BE DIAGONALLY SLOTTED 13/16"x1 3/4" PROVIDED A STANDARD CUT WASHER IS PLACED BETWEEN THE PLATE WASHER AND NUT. PLATE WASHER TO EXTEND TO WITHIN 1/2" OF THE EDGE OF THE SILL PLATE ON THE SIDE(S) WITH SHEATHING. AT 2x6 WALLS WITH SHEATHING ON BOTH SIDES USE PLATE WASHER 0.229"x4 1/2"x4 1/2" MINIMUM. EMBED ANCHOR BOLTS 7" MINIMUM INTO THE CONCRETE.

[11] PRESSURE TREATED MATERIAL CAN CAUSE EXCESSIVE CORROSION IN THE FASTENERS. PROVIDE HOT-DIPPED GALVANIZED (ELECTRO-PLATING IS NOT ACCEPTABLE) NAILS AND CONNECTOR PLATES (FRAMING ANGLES, ETC) FOR ALL CONNECTORS IN CONTACT WITH PRESSURE TREATED FRAMING MEMBERS. ADDITIONAL INFORMATION PER STRUCTURAL GENERAL NOTES.

[12] 7/16" APA-RATED SHEATHING (OSB) MAY BE USED IN PLACE OF 15/32" SHEATHING PROVIDED THAT ALL STUDS ARE SPACED AT 16"OC MAXIMUM.

[13] WHERE WOOD SHEATHING (W) IS APPLIED OVER GYPSUM SHEATHING (G), CONTACT THE ENGINEER OF RECORD FOR ALTERNATE NAILING REQUIREMENTS.

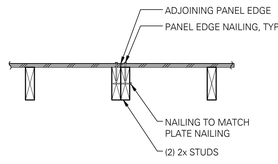
[14] AT ADJOINING PANEL EDGES, (2) 2x STUDS NAILED TOGETHER MAY BE USED IN PLACE OF SINGLE 3x STUD. DOUBLE 2x STUDS SHALL BE CONNECTED TOGETHER BY NAILING THE STUDS TOGETHER WITH 3" LONG NAILS OF THE SAME SPACING AND DIAMETER AS THE PLATE NAILING, PER SECTION.

[15] CONTACT THE STRUCTURAL ENGINEER OF RECORD FOR ADHESIVE OR EXPANSION BOLT ALTERNATIVES TO CAST-IN-PLACE ANCHOR BOLTS. SPECIAL INSPECTION MAY BE REQUIRED.

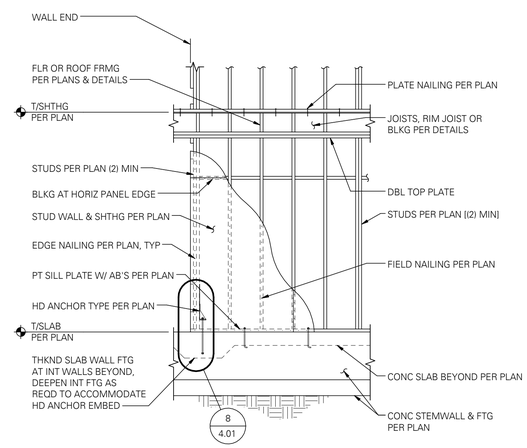
[16] NAIL STUDS TO 3x SILL PLATES WITH EITHER (2) 0.148"Ø x4" END NAILS OR (4) 0.131"Ø x2 1/2" TOENAILS.

[17] WX WHERE "W" INDICATES WOOD SHEATHING AND "X" INDICATES EDGE NAIL SPACING.

[18] EDGE NAILS SHALL BE LOCATED 3/8" FROM PANEL EDGES.

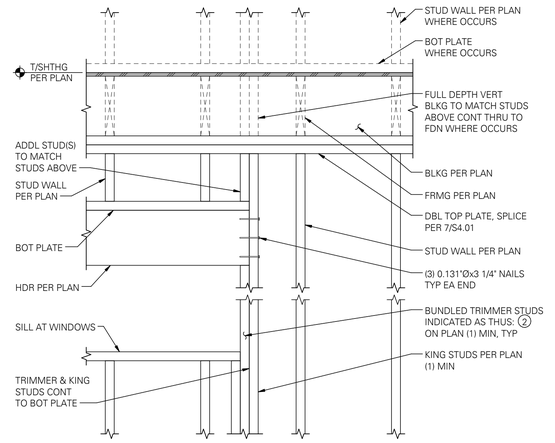



PLAN



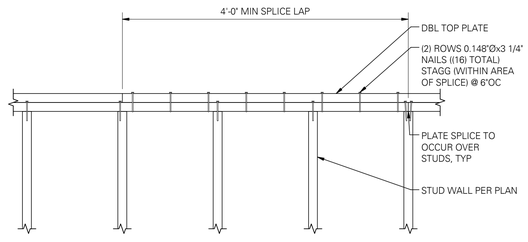

## 3 TYPICAL SHEAR WALL ELEVATION

SCALE: 1" = 1'-0" (06090)




## 4 TYPICAL HEADER

SCALE: 1" = 1'-0" (06210)

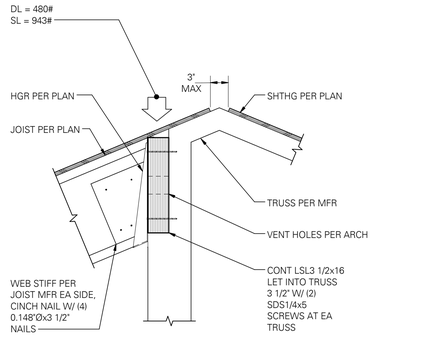



NOTE:

FLOOR/ROOF JOISTS NOT SHOWN FOR CLARITY.

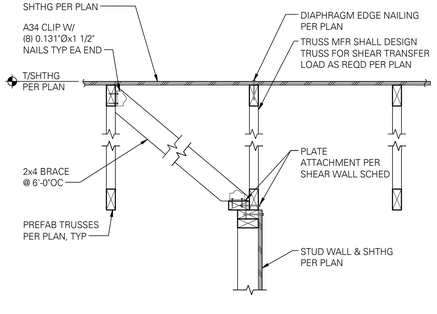
## 7 TYPICAL PLATE SPLICE DETAIL

SCALE: 1" = 1'-0" (06904)




## 8 JOIST CONNECTION AT TRUSS

SCALE: 1" = 1'-0"

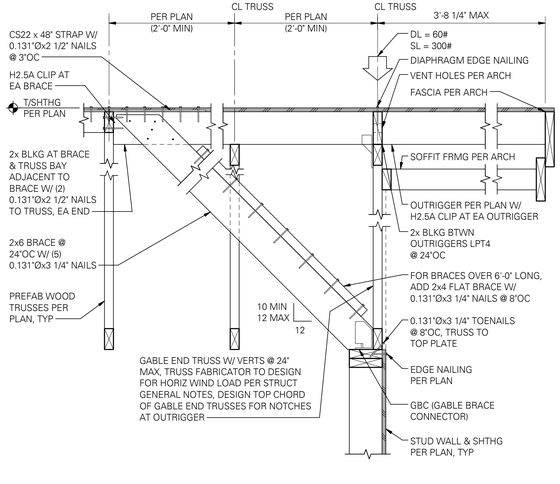



NOTE:

IF NO SHEAR TRANSFER LOAD IS INDICATED ON PLAN, TRUSS MANUFACTURER SHALL PROVIDE TRUSS WITH VERTICALS @ 24"OC MAXIMUM WITH SHEATHING AND NAILING TO MATCH SHEAR WALL WHERE INDICATED BELOW. COORDINATE VENTING REQUIREMENTS WITH ARCHITECT AND STRUCTURAL ENGINEER.

## 5 SHEAR WALL SCHEDULE - DOUG-FIR LARCH

SCALE: 1" = 1'-0" (01430)

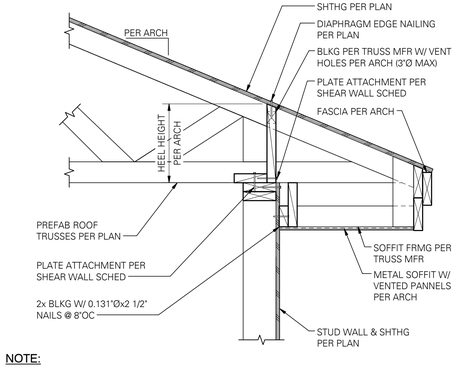



## 9 INTERIOR WALL PARALLEL TO ROOF TRUSSES

SCALE: 1" = 1'-0" (06070)

## 10 EXTERIOR WALL PARALLEL TO ROOF TRUSSES

SCALE: 1" = 1'-0" (06060)




NOTE:

CONNECT EACH TRUSS TO TOP PLATES WITH H1 (NOT SHOWN FOR CLARITY).

## EXTERIOR WALL PERPENDICULAR TO ROOF TRUSSES

SCALE: 1" = 1'-0" (06065M)

### HORIZONTAL STRAP FASTENER SCHEDULE [4]

STRAP NAILED TO TOP OF JOISTS/BEAMS (DF, PSL [3], LSL [3], LVL [3])

| STRAP | FASTENERS [1] | | CAPACITY |
|---|---|---|---|
| | STRAP ENDS [2] | BALANCE | |
| CMST12 | (66) 0.131"Ø x2 1/2" NAILS IN (2) ROWS @ 3 1/2"OC | (2) ROWS OF 0.131"Ø x 2 1/2" NAILS @ 7"OC | 7.6k |
| CMST14 | (66) 0.131"Ø x2 1/2" NAILS IN (2) ROWS @ 3 1/2"OC | (2) ROWS OF 0.131"Ø x 2 1/2" NAILS @ 7"OC | 5.4k |
| CS14 | (30) 0.131"Ø x2 1/2" NAILS IN (2) ROWS @ 4 1/8"OC | (2) ROWS OF 0.131"Ø x 2 1/2" NAILS @ 8 1/4"OC | 2.5k |
| CS16 | (22) 0.131"Ø x2 1/2" NAILS IN (2) ROWS @ 4 1/8"OC | (2) ROWS OF 0.131"Ø x 2 1/2" NAILS @ 8 1/4"OC | 1.7k |

NOTES:

[1] ROWS SHALL BE 1/2" MINIMUM APART, STAGGERED NAILS.

[2] PLACE HALF OF THE REQUIRED NAILS AT EACH END OF STRAP.

[3] WEYERHAEUSER PRODUCTS. CONTACT ENGINEER-OF-RECORD IF A DIFFERENT MANUFACTURE IS USED.

[4] SCHEDULE NOT FOR USE WITH RESIDENTIAL I-JOISTS.

## 12 HORIZONTAL STRAP FASTNER SCHEDULE

SCALE: 1" = 1'-0" (01801)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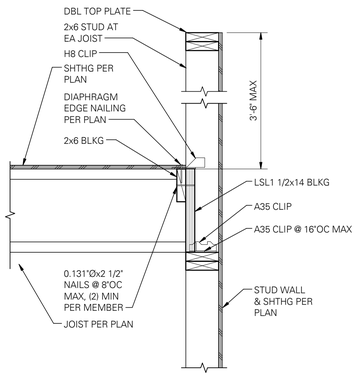
## DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE
## 3284 INDUSTRIAL LOOP, COEUR D'ALENE ID, 83815

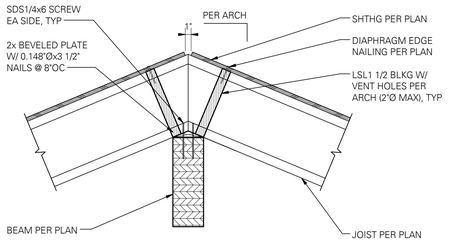
FRAMING DETAILS

| | |
|---|---|
| PROJECT NO. | 16041-0177 |
| DESIGNED BY | KEA TB |
| DRAWN BY | JLP |
| ISSUE DATE | 08.27.18 |
| PHASE | CLOSEOUT |
| CHECKED BY | MDT |
| REVISION | RECORD SET |
| SHEET NO. | S4.01 |



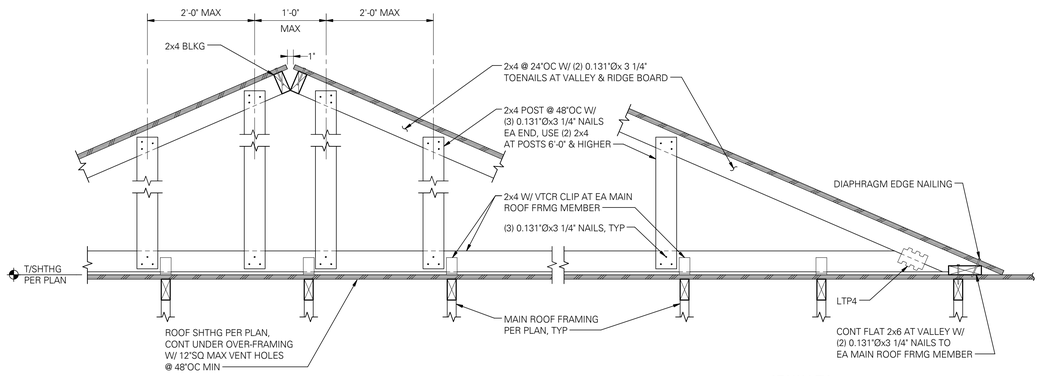

## 1 MEZZANINE GUARDRAIL PERPENDICULAR TO JOIST

SCALE: 1" = 1'-0"




## 2 ENTRY CANOPY AT RIDGE BEAM

SCALE: 1" = 1'-0"




NOTE:

AT CONTRACTOR'S OPTION, TRUSSES MAY BE USED IN LIEU OF 2x FRAMING SHOWN.

## 3 STANDARD ROOF OVER-FRAMING

SCALE: 1" = 1'-0" (06900)




## 5 TRUSS PERPENDICULAR TO BEARING WALL

SCALE: 1" = 1'-0"




## 6 ENTRY CANOPY CONNECTION

SCALE: 1" = 1'-0"




## 7 ENTRY CANOPY CONNECTION

SCALE: 1" = 1'-0"

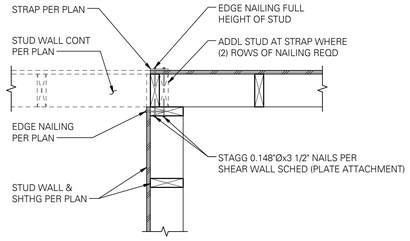



NOTE:

CONNECT EACH TRUSS TO TOP PLATES WITH H1 (NOT SHOWN FOR CLARITY)

## 8 PERIMETER WALL PERPENDICULAR TO MEZZANINE JOISTS

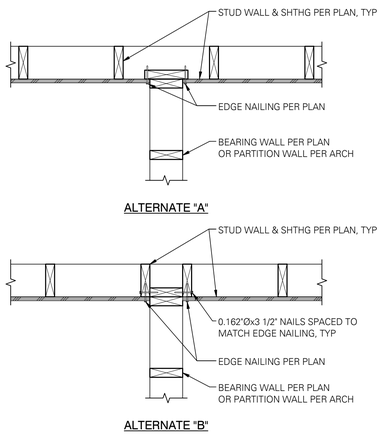
SCALE: 1" = 1'-0" (06061)




WITH OR WITHOUT STRAP TIE

## 9 PLAN - INTERSECTING SHEAR WALLS

SCALE: 1" = 1'-0" (06110)



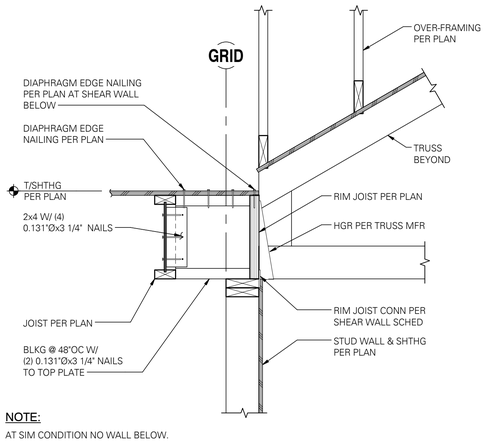

ALTERNATE "A"




ALTERNATE "B"

## 10 PLAN - INTERSECTING SHEAR WALLS

SCALE: 1" = 1'-0" (06112)

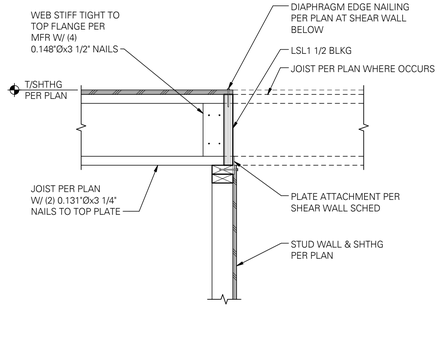



NOTE:

AT SIM CONDITION NO WALL BELOW.

## 11 INTERIOR WALL PARALLEL TO MEZZANINE JOISTS

SCALE: 1" = 1'-0"




## 12 INTERIOR WALL PERPENDICULAR TO MEZZANINE JOIST

SCALE: 1" = 1'-0" (06071M)

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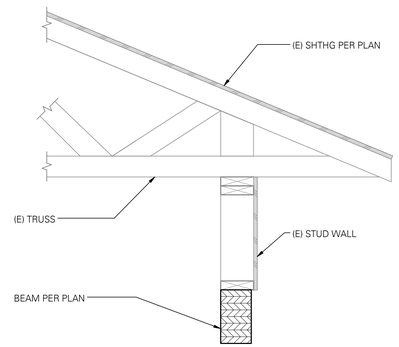
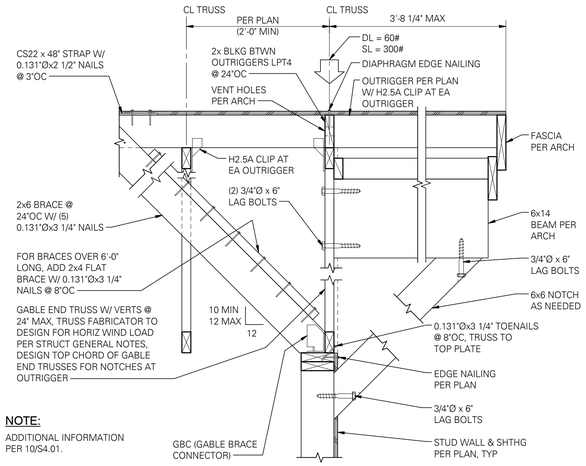
S4.02




## 4 HEADER AT EXISTING OPENING

SCALE: 1" = 1'-0"

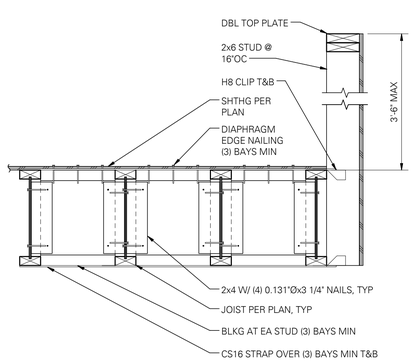



NOTE:

ADDITIONAL INFORMATION
PER 10/S4.01.

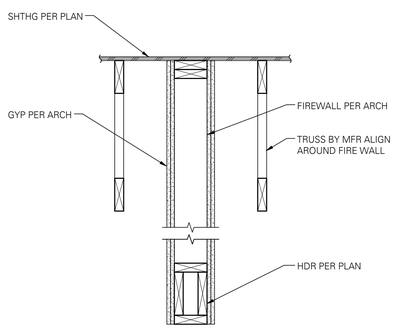
## 8 EXTERIOR WALL PARALLEL TO ROOF TRUSSES

SCALE: 1" = 1'-0" (06060M)




## 11 MEZZANINE GUARDRAIL PARALLEL TO JOIST

SCALE: 1" = 1'-0"




## 12 FIRE DOOR FRAMING DETAIL

SCALE: 1" = 1'-0"

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**AS-BUILT DOCUMENTS**

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# IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500

## DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE

## 3284 INDUSTRIAL LOOP, COEUR D'ALENE ID, 83815

FRAMING DETAILS

| | |
|---|---|
| PROJECT NO. | 16041-0177 |
| DESIGNED BY | Designer |
| DRAWN BY | Author |
| ISSUE DATE | 08.27.18 |
| PHASE | CLOSEOUT |
| CHECKED BY | Checker |
| REVISION | RECORD SET |
| SHEET NO. | S4.03 |

## HVAC BASIS OF DESIGN

| | | | |
|---|---|---|---|
| OUTDOOR DESIGN TEMPERATURES PER ASHRAE { 91.4°F Db SUMMER / 62.8°F Wb SUMMER / 6.7°F Db WINTER | STATE: IDAHO | COUNTY: KOOTENAI | CLIMATE ZONE: 5B |
| | DESIGN ALTITUDE 2,182 FT ABOVE SEA LEVEL | | |

| INDOOR AREA DESIGN CONDITIONS | SUMMER | | WINTER | |
|---|---|---|---|---|
| GENERAL SPACE DESIGNATION | Db (°F) | % HUMIDITY | Db (°F) | % HUMIDITY |
| GENERAL BUILDING | 75 | 50 | 70 | 50 |

THESE DOCUMENTS WERE DEVELOPED USING THE 2012 INTERNATIONAL MECHANICAL CODE (IMC), THE 2012 INTERNATIONAL ENERGY CONSERVATION CODE (IECC), THE 2012 IDAHO FIRE CODE (IFC), AND THE 2012 INTERNATIONAL FUEL GAS CODE (IFGC) WITH THE STATE OF IDAHO AMENDMENTS

## IECC COMPLIANCE

1. HVAC EQUIPMENT SHALL HAVE MINIMUM PERFORMANCE AT SPECIFIED RATING CONDITIONS NOT LESS THAN THE VALUES INDICATED IN THE TABLE C403.2.3(1) THROUGH C403.2.3(8) OF THE IECC AND AS INDICATED ON THE CONTRACT DOCUMENTS.
2. THERMOSTATS:
   - 2.1. PROVIDE THERMOSTAT WITH 7-DAY PROGRAMMABLE THERMOSTAT CAPABLE OF BEING SET FOR 7-DIFFERENT DAY TYPES PER WEEK (5+2 AND 5+1+1 THERMOSTATS ARE NOT ACCEPTABLE.
   - 2.2. THERMOSTAT SHALL HAVE PROGRAMMING BACK UP CAPABLE OF RETAINING THE PROGRAMMING FOR A MINIMUM OF TEN HOURS UPON LOSS OF POWER.
   - 2.3. THE THERMOSTAT SHALL BE CAPABLE OF MANUAL OVERRIDE.
   - 2.4. FOR THERMOSTATS CONTROLLING HEATING AND COOLING EQUIPMENT SUPPLYING OVER 2,000 CFM OF SUPPLY AIR, THE THERMOSTAT SHALL BE PROVIDED WITH "OPTIMUM START" CAPABILITIES.
   - 2.5. HVAC SYSTEMS SHALL BE EQUIPPED WITH AUTOMATIC CONTROLS CAPABLE OF ACCOMPLISHING SETBACK OR SHUTDOWN DURING UNOCCUPIED PERIODS AS REQUIRED BY SECTION C403.2.4.3 OF THE IECC AND AS DESCRIBED IN THE TEMPERATURE CONTROL SEQUENCES.
   - 2.6. PROVIDE DEADBAND BETWEEN HEATING/COOLING SPACE SENSOR SETPOINTS OF 5 DEGREES AS REQUIRED BY SECTION C403.2.4.2 OF THE IECC OR AS DESCRIBED IN THE TEMPERATURE CONTROL SEQUENCES
3. PROVIDE BALANCING DEVICES IN ALL BRANCH DUCTS AND PIPE RUNS TO TERMINAL DEVICES AS REQUIRED BY SECTION C408.2.2.1 OF THE IECC AND AS INDICATED ON THE CONTRACT DOCUMENTS.
4. SEALANTS FOR GALVANIZED DUCTWORK: SEAL AIR DUCT JOINTS AND JOINTS BETWEEN FITTINGS AND DUCTS WITH HARDCAST SEALANT OR APPROVED EQUAL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
5. ALL DUCTWORK SHALL COMPLY WITH SMACNA STANDARDS FOR CONSTRUCTION OF GALVANIZED DUCTWORK. ALL DUCTWORK SHALL BE SEALED AS REQUIRED BY SECTION C403.2.7 OF THE IECC.
6. DUCTWORK STATIC PRESSURE AND SEAL CLASS:

| DUCT CONSTRUC-TION CLASS | STATIC PRESSURE RATING | PRESSURE | SMACNA SEAL CLASS | SMACNA LEAKAGE CLASS | VELOCITY | |
|---|---|---|---|---|---|---|
| 2" | 2" TO 3" | POS. OR NEG. | B | 12 | 2500 FPM OR LESS | SEAL TRANSVERSE JOINTS AND LONGITUDINAL SEAMS |

7. ALL DUCTWORK SHALL BE INSULATED AS REQUIRED BY SECTION C403.2.7 OF THE IECC.

| DUCT TYPE | LOCATION | R-VALUE |
|---|---|---|
| SUPPLY/RETURN | EXTERIOR DUCTWORK | R-12 (INCLUDE APPROVED WEATHERPROOF BARRIER) |
| OUTSIDE AIR | WITHIN CONDITIONED SPACE (NOT CONSIDERED PART OF THE BUILDING ENVELOPE) | R-8 (DAMPER AT ENVELOPE PENETRATION) |
| SUPPLY (< 55°) | PLENUM OR UNCONDITIONED SPACE | R-6 |

8. SUPPLY AIR AND WATER TEMPERATURES SHALL BE AUTOMATICALLY RESET AS REQUIRED IN SECTION C403.4.5.4 AND C403.4.3.4 OF THE IECC OR AS DESCRIBED IN THE TEMPERATURE CONTROL SEQUENCES.
9. SHUTOFF DAMPERS SHALL BE PROVIDED AS INDICATED IN SECTION C403.2.4.4 OF THE IECC. BOTH OUTDOOR AIR SUPPLY AND EXHAUST DUCTS SHALL BE EQUIPPED WITH MOTORIZED DAMPERS THAT WILL AUTOMATICALLY SHUT WHEN THE SYSTEMS OF SPACES SERVED ARE NOT IN USE.
   - 9.1. GRAVITY DAMPERS MAY BE USED IN BUILDINGS LESS THAN THREE STORIES IN HEIGHT.
   - 9.2. GRAVITY DAMPERS MAY BE PERMITTED FOR BUILDINGS OF ANY HEIGHT LOCATED IN CLIMATE ZONES 1, 2, AND 3.
   - 9.3. GRAVITY DAMPERS SHALL BE PERMITTED FOR OUTSIDE AIR INTAKE OR EXHAUST AIR FLOWS OF 300 CFM OR LESS.
10. MOTORIZED DAMPERS:
    - 10.1. OUTDOOR AIR SUPPLY, EXHAUST OPENINGS SHALL BE PROVIDED WITH CLASS 1A MOTORIZED DAMPERS WITH A MAXIMUM LEAKAGE RATE OF 4 CFM/SF AT 1.0 INCH WATER GAUGE WHEN TESTED IN ACCORDANCE WITH AMCA 500D.
    - 10.2. DAMPERS LESS THAN 24" IN EITHER DIMENSION SHALL HAVE A TESTED MAXIMUM LEAKAGE RATE NOT TO EXCEED 40 CFM/SF
11. GRAVITY DAMPERS.:
    - 11.1. GRAVITY DAMPERS GREATER THAN 24" IN ONE OR MORE DIMENSION SHALL HAVE A TESTED MAXIMUM LEAKAGE RATE NOT TO EXCEED 20 CFM/SF AT 1.0 INCH WATER GAUGE WHEN TESTED IN ACCORDANCE WITH AMCA 500D.

## DUCTWORK SYMBOLS

| SINGLE LINE | DOUBLE LINE |
|---|---|
| DUCT UP | |
| SUPPLY DUCT UP | |
| SUPPLY DUCT DOWN | |
| OR STANDARD RADIUS ELBOW (R = W) SUPPLY/RETURN /EXHAUST | R, W |
| 90° ELBOW WITH TURNING VANES | |
| SPLIT TAKE-OFF W/ BRANCH DAMPERS SUPPLY | |
| OR BULLHEAD SPLIT SUPPLY | |
| CEILING DUCT MTD. DIFF/GRILLE | |
| TAKEOFF TO DIFF/GRILLE | HARD ELBOW |
| CEILING DUCT MTD. RETURN/GRILLE | |
| CEILING DUCT MTD. DIFF/GRILLE | |
| ACOUSTICALLY LINED DUCT | |
| DUCTWORK OR EQUIPMENT TO BE REMOVED | |

| SINGLE LINE | DOUBLE LINE |
|---|---|
| RETURN/EXHAUST DUCT UP | |
| RETURN/EXHAUST DUCT DOWN | |
| HORIZONTAL OFFSET SUPPLY/RETURN /EXHAUST | |
| RISE/DROP | RISE/DROP |
| RISE OR DROP SUPPLY/RETURN/ EXHAUST | |
| 45°F TAP TAKE-OFF | |
| 90°F TAP TAKE-OFF | RING DUCT |
| BULLHEAD CONVERGE RETURN/EXHAUST | |
| SIDEWALL DUCT MTD. REG./GRILLE | |
| SUPPLY SIDEWALL LINEAR DIFFUSER (W/SHEET METAL PLENUM W/1" LINING & BRANCH CONN FOR EVERY 4' OF LENGTH) | VD, VD |
| SUPPLY CEILING LINEAR DIFFUSER (W/SHEET METAL PLENUM W/1" LINING & BRANCH CONN FOR EVERY 4' OF LENGTH) | VD, VD, BOOT BY LD MF'R |
| OPEN END DUCT W/ 1/4"x1/4" WMS | |
| FLEXIBLE DUCT | |

## ADDITIONAL SYMBOLS

| | |
|---|---|
| AVS | AIR VOLUME TRAVERSE STATION |
| ACD | AUTOMATIC CONTROL DAMPER W/ACCESS DOOR |
| SGD | SLIDE GATE DAMPER |
| VD | MANUAL VOLUME DAMPER |
| FD | SELF-CLOSING FIRE DAMPER W/ACCESS DOOR |
| SD | AUTOMATIC SMOKE DAMPER W/ACCESS DOOR |
| SFD | COMBINATION SMOKE/FIRE DAMPER W/ACCESS DOOR |
| BD | BACKDRAFT DAMPER |
| M | MOTORIZED DAMPER |
| | STANDARD 4-WAY BLOW SUPPLY DIFFUSER |
| | BLANKED FOR 3-WAY BLOW SUPPLY DIFFUSER |
| OR | BLANKED FOR 2-WAY BLOW SUPPLY DIFFUSER |
| | BLANKED FOR 1-WAY BLOW SUPPLY DIFFUSER |
| | ROOF EXHAUST FAN SHOWN ON ROOF |
| | ROOF EXHAUST FAN SHOWN ON FLOOR PLAN |
| UC 1/2" | UNDERCUT DOOR |
| LVDR 1.5 SF | LOUVERED DOOR |
| | RETURN OR EXHAUST AIR FLOW DIRECTION |
| | SUPPLY AIR FLOW |
| | CONNECT NEW TO EXISTING |
| | POINT OF DEMOLITION |
| | SECTION DESIGNATION / SHEET NUMBER |
| T | TEMPERATURE SENSOR OR THERMOSTAT |
| 1 | FIRE DAMPER |

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IDAHO DEPARTMENT OF LANDS DPW PROJECT #17-500
DEMO MICA AREA OFFICE A & EXPAND CDA STAFF OFFICE
3284 INDUSTRIAL LOOP, COEUR D'ALENE ID, 83815

# MECHANICAL: LEGENDS & SYMBOLS

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | MAK |
| DRAWN BY | |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | MAK |
| REVISION | RECORD SET |
| SHEET NO. | M0.01 |

# COMcheck Software Version 4.0.5.1
# Mechanical Compliance Certificate

## Section 1: Project Information

Energy Code: **2009 IECC**
Project Title: Idaho Department of Lands
Project Type: New Construction

Construction Site:
3284 Industrial Loop
Coeur D'Alene, ID 83815

Owner/Agent:

Designer/Contractor:
Mark Kartchner
Kartchner Engineering
6814 E. Jackson Ridge Ln
Spokane, WA 99016
(509) 922-0383
mark@kartchnerengineering.com

## Section 2: General Information

Building Location (for weather data): Coeur d'Alene, Idaho
Climate Zone: 5b

## Section 3: Mechanical Systems List

**Quantity** **System Type & Description**

1 HVAC System 1 (Multiple-Zone) : Split System Heat Pump
Heating Mode: Capacity = 351 kBtu/h,
Proposed Efficiency = 3.32 COP, Required Efficiency = 3.20 COP
Cooling Mode: Capacity = 312 kBtu/h, , No Economizer , Economizer exception: VRF Outdoor/Central Unit
Proposed Efficiency = 10.50 EER, Required Efficiency: 9.50 EER (9.2 IPLV)
Fan System: FAN SYSTEM 1 | Entire Buildking -- Compliance (Motor nameplate HP method) : Passes

Fans:
FAN 1 Supply, Constant Volume, 1350 CFM, 1.5 motor nameplate hp
FAN 2 Return, Constant Volume, 1650 CFM, 1.5 motor nameplate hp
SYSTEM COMPLIANCE FAILS: Economizer requirements have not been met.

1 Water Heater 1:
Gas Storage Water Heater, Capacity: 75 gallons, Input Rating: 75 Btu/h w/ Circulation Pump
Proposed Efficiency: 95.00 EF, Required Efficiency: 0.48 EF

## Section 4: Requirements Checklist

### Requirements Specific To: HVAC System 1 :

❑ 1. Equipment minimum efficiency: Heat Pump: 3.20 COP 9.50 EER (9.2 IPLV)
❑ 2. Minimum one temperature control device per zone
❑ 3. Integrated economizer is required for this location and system.
❑ 4. Systems serving more than one zone must be VAV systems
❑ 5. Single-duct VAV terminals reduce primary air before reheating
❑ 6. Controls capable of resetting supply air temp (SAT) by 25% of SAT-room temp difference
*Exception(s):*
❑ Systems that prevent reheating, recooling or mixing of heated and cooled supply air
❑ Seventy five percent of the energy for reheating is from site-recovered or site solar energy sources.
❑ Zones with peak supply air quantities of 300 cfm (142 L/s) or less.
❑ 7. VAV fans with static pressure sensors are placed in a position such that the controller setpoint is no greater than one-third the total design fan static pressure. If placement results in the sensor being located downstream of major duct splits, multiple sensors are installed in each major branch.



*Exception(s):*
❑ Systems with DDC of individual zone boxes reporting to the central control panel and reset of static pressure setpoint based on the zone requiring the most pressure.
❑ 8. Systems with DDC of individual zone boxes reporting to the central control panel has static pressure setpoint reset based on the zone requiring the most pressure.

### Requirements Specific To: Water Heater 1 :

❑ 1. Water heating equipment meets minimum efficiency requirements: Gas Storage Water Heater efficiency: 0.48 EF
❑ 2. All piping in circulating system insulated
❑ 3. Hot water storage temperature controls that allow setpoint of 90°F for non-dwelling units and 110°F for dwelling units.
❑ 4. Automatic time control of heat tapes and recirculating systems present
❑ 5. Controls will shut off operation of circulating pump between water heater/boiler and storage tanks within 5 minutes after end of heating cycle

### Generic Requirements: Must be met by all systems to which the requirement is applicable:

❑ 1. Plant equipment and system capacity no greater than needed to meet loads
*Exception(s):*
❑ Standby equipment automatically off when primary system is operating
❑ Multiple units controlled to sequence operation as a function of load
❑ 2. Minimum one temperature control device per system
❑ 3. Minimum one humidity control device per installed humidification/dehumidification system
❑ 4. Load calculations per ASHRAE/ACCA Standard 183.
❑ 5. Automatic Controls: Setback to 55°F (heat) and 85°F (cool); 7-day clock, 2-hour occupant override, 10-hour backup
*Exception(s):*
❑ Continuously operating zones
❑ 6. Outside-air source for ventilation; system capable of reducing OSA to required minimum
❑ 7. R-5 supply and return air duct insulation in unconditioned spaces
R-8 supply and return air duct insulation outside the building
R-8 insulation between ducts and the building exterior when ducts are part of a building assembly
*Exception(s):*
❑ Ducts located within equipment
❑ Ducts with interior and exterior temperature difference not exceeding 15°F.
❑ 8. Mechanical fasteners and sealants used to connect ducts and air distribution equipment
❑ 9. Ducts sealed - longitudinal seams on rigid ducts; transverse seams on all ducts; UL 181A or 181B tapes and mastics
❑ 10. Hot water pipe insulation: 1.5 in. for pipes <=1.5 in. and 2 in. for pipes >1.5 in.
Chilled water/refrigerant/brine pipe insulation: 1.5 in. for pipes <=1.5 in. and 1.5 in. for pipes >1.5 in.
Steam pipe insulation: 1.5 in. for pipes <=1.5 in. and 3 in. for pipes >1.5 in.
*Exception(s):*
❑ Piping within HVAC equipment.
❑ Fluid temperatures between 55 and 105°F.
❑ Fluid not heated or cooled with renewable energy.
❑ Piping within room fan-coil (with AHRI440 rating) and unit ventilators (with AHRI840 rating).
❑ Runouts <4 ft in length.
❑ 11. Operation and maintenance manual provided to building owner
❑ 12. Balancing devices provided in accordance with IMC 603.17
❑ 13. Demand control ventilation (DCV) present for high design occupancy areas (>40 person/1000 ft2 in spaces >500 ft2) and served by systems with any one of 1) an air-side economizer, 2) automatic modulating control of the outdoor air damper, or 3) a design outdoor airflow greater than 3000 cfm.
*Exception(s):*
❑ Systems with heat recovery.
❑ Multiple-zone systems without DDC of individual zones communicating with a central control panel.
❑ Systems with a design outdoor airflow less than 1200 cfm.
❑ Spaces where the supply airflow rate minus any makeup or outgoing transfer air requirement is less than 1200 cfm.
❑ 14. Motorized, automatic shutoff dampers required on exhaust and outdoor air supply openings
*Exception(s):*
❑ Gravity dampers acceptable in buildings <3 stories
❑ 15. Automatic controls for freeze protection systems present
❑ 16. Exhaust air heat recovery included for systems 5,000 cfm or greater with more than 70% outside air fraction or specifically exempted
*Exception(s):*
❑ Hazardous exhaust systems, commercial kitchen and clothes dryer exhaust systems that the International Mechanical Code prohibits the use of energy recovery systems.



❑ Systems serving spaces that are heated and not cooled to less than 60°F.
❑ Where more than 60 percent of the outdoor heating energy is provided from site-recovered or site solar energy.
❑ Heating systems in climates with less than 3600 HDD.
❑ Cooling systems in climates with a 1 percent cooling design wet-bulb temperature less than 64°F.
❑ Systems requiring dehumidification that employ energy recovery in series with the cooling coil.
❑ Laboratory fume hood exhaust systems that have either a variable air volume system capable of reducing exhaust and makeup air volume to 50 percent or less of design values or, a separate make up air supply meeting the following makeup air requirements: a) at least 75 percent of exhaust flow rate, b) heated to no more than 2°F below room setpoint temperature, c) cooled to no lower than 3°F above room setpoint temperature, d) no humidification added, e) no simultaneous heating and cooling.

## Section 5: Compliance Statement

*Compliance Statement:* The proposed mechanical design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2009 IECC requirements in COMcheck Version 4.0.5.1 and to comply with the mandatory requirements in the Requirements Checklist.

Mark Kartchner, P.E. | Mark Kartchner | 5-4-2017
Name - Title | Signature | Date

## Section 6: Post Construction Compliance Statement

❑ HVAC record drawings of the actual installation, system capacities, calibration information, and performance data for each equipment provided to the owner.
❑ HVAC O&M documents for all mechanical equipment and system provided to the owner by the mechanical contractor.
❑ Written HVAC balancing and operations report provided to the owner.

The above post construction requirements have been completed.

Principal Mechanical Designer-Name | Signature | Date

Project Notes:
Demo Mica Area Office A & Expand CDA Staff Office



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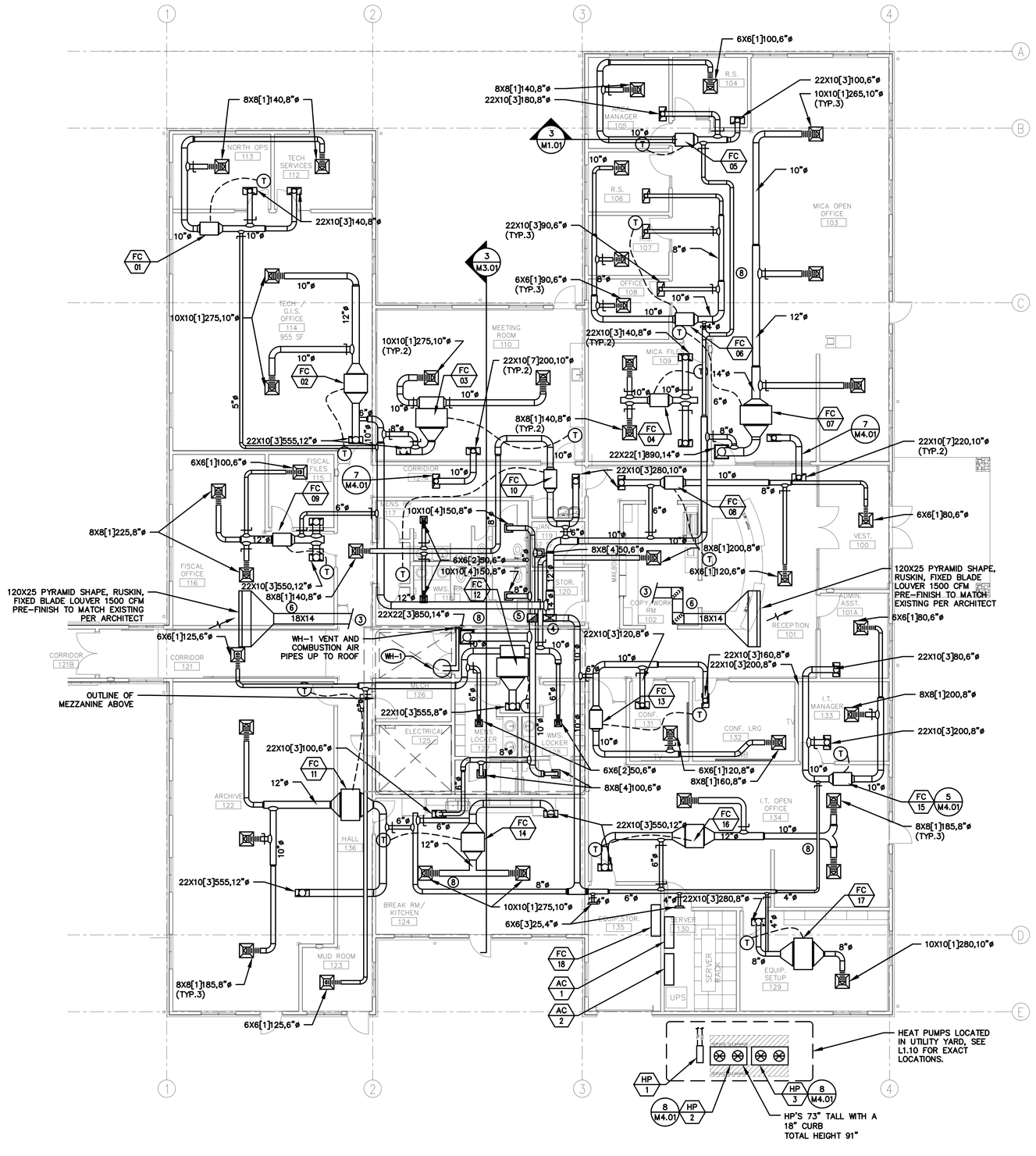
**IDAHO DEPARTMENT OF LANDS DPW PROJECT #17-500**
**DEMO MICA AREA OFFICE A & EXPAND CDA STAFF OFFICE**
**3284 INDUSTRIAL LOOP, COEUR D'ALENE ID, 83815**

# MECHANICAL: COMCHECK

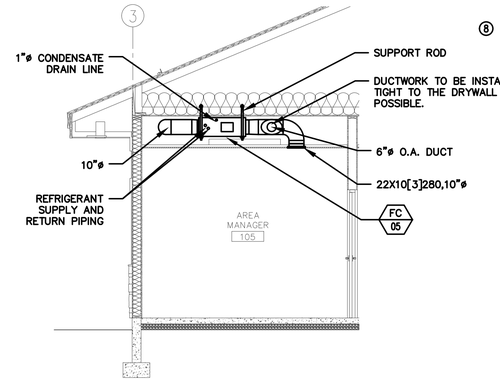
| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | MAK |
| DRAWN BY | |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | MAK |
| REVISION | RECORD SET |
| SHEET NO. | M0.02 |




## 1 MECHANICAL: MAIN FLOOR PLAN

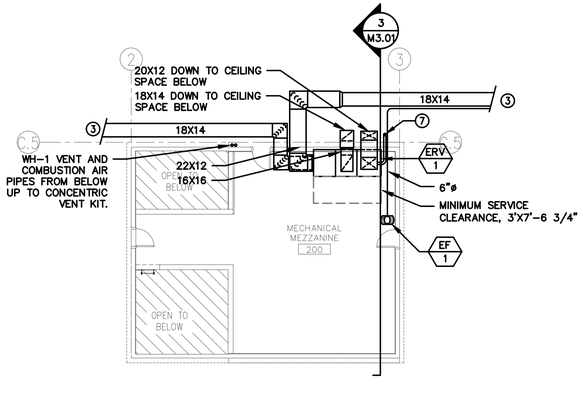
SCALE: 1/8" = 1'-0"

NORTH




## 3 MECHANICAL: SECTION

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




## 2 MECHANICAL: MEZZANINE PLAN

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

NORTH

## GENERAL NOTES

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2. ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE STATE AND LOCAL CODES IN ACCORDANCE WITH THE CURRENT INTERNATIONAL MECHANICAL CODE.
3. ALL NEW MATERIAL, METHODS, AND EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE BUILDING STANDARDS AS APPROVED BY THE OWNER.
4. CONTRACTOR SHALL INSTALL ALL EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
5. COORDINATE EXACT LOCATION OF DUCTWORK WITH EQUIPMENT, LIGHTING, PIPING, ETC..
6. BALANCE AIR SYSTEMS WITHIN 10% OF CAPACITIES LISTED.
7. CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR OR OWNER PRIOR TO ANY CUTTING OF ROOF.

## KEYED NOTES

1. 7 DAY PROGRAMMABLE T-STAT W/ AUTO CHANGEOVER. MOUNT MAX 4' ABOVE FINISHED FLOOR.
2. SUPPLY AND RETURN DUCT UP THROUGH ROOF TO AND CONNECT TO RTU-1.
3. ROUTE O.A. SUPPLY AND RETURN TO LOUVERS WITH MIN. 3 SQFT FREE AREA ON OPPOSITE SIDES OF THE BUILDING.
4. 20X12 FROM ABOVE.
5. 18X14 FROM ABOVE.
6. COORDINATE DUCT LAYOUT WITH TRUSS LAYOUT.
7. COMBUSTION/VENT THROUGH ROOF. CONTRACTOR TO LOCATE COMBUSTION VENT SOUTH OF ROOF RIDGE SO NOT VISIBLE FROM ENTRY.
8. DUCTWORK TO BE INSTALLED AS TIGHT TO THE DRYWALL LID AS POSSIBLE.

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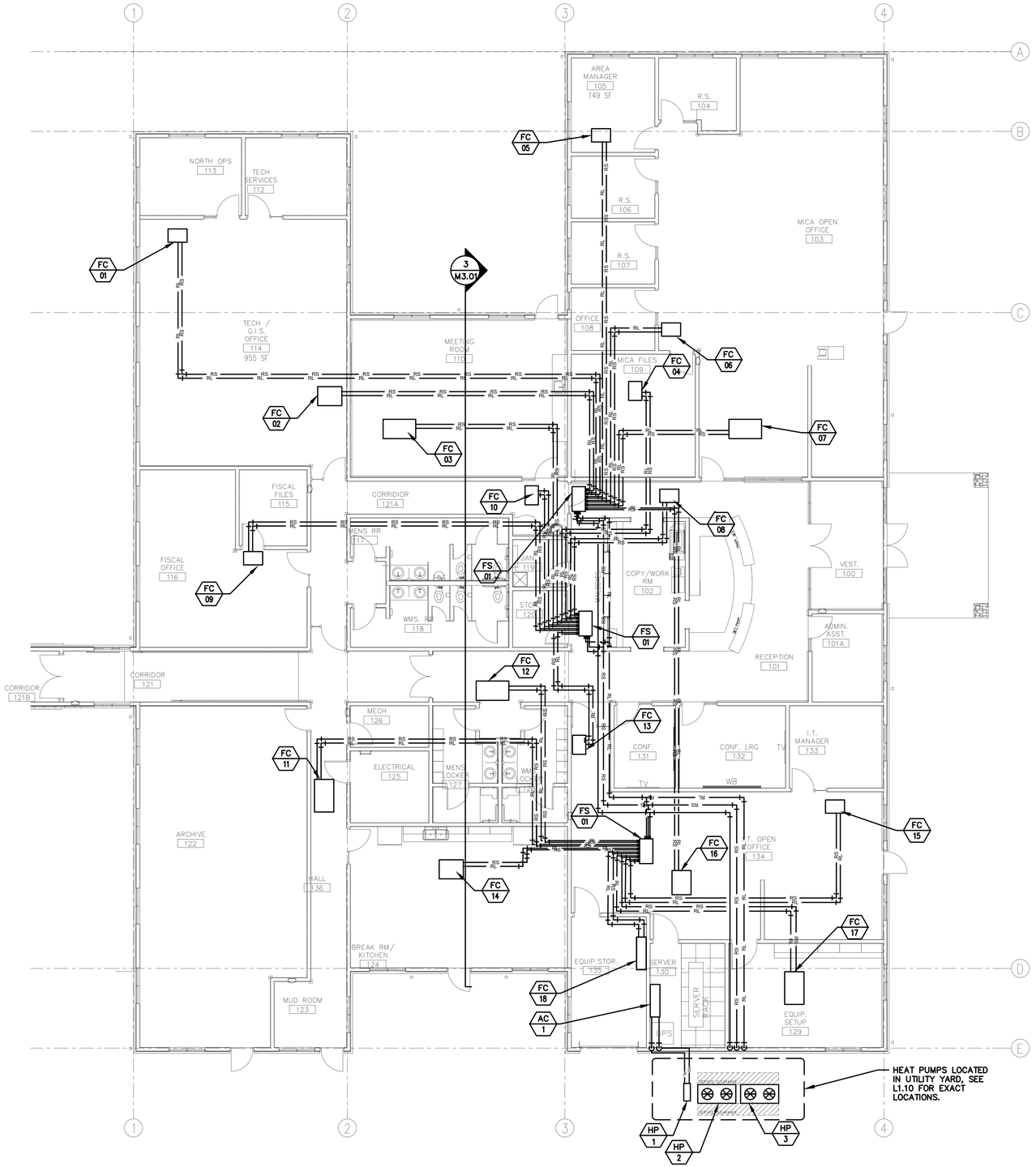
# IDAHO DEPARTMENT OF LANDS DPW PROJECT #17-500
## DEMO MICA AREA OFFICE A & EXPAND CDA STAFF OFFICE
## 3284 INDUSTRIAL LOOP, COEUR D'ALENE ID, 83815

# MECHANICAL: FLOOR PLAN

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | MAK |
| DRAWN BY | |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | MAK |
| REVISION | RECORD SET |

SHEET NO.

# M1.01




## 1 MECHANICAL: REFRIGERANT MAIN FLOOR PLAN

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

NORTH

## GENERAL NOTES

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5. COORDINATE EXACT LOCATION OF DUCTWORK WITH EQUIPMENT, LIGHTING, PIPING, ETC..
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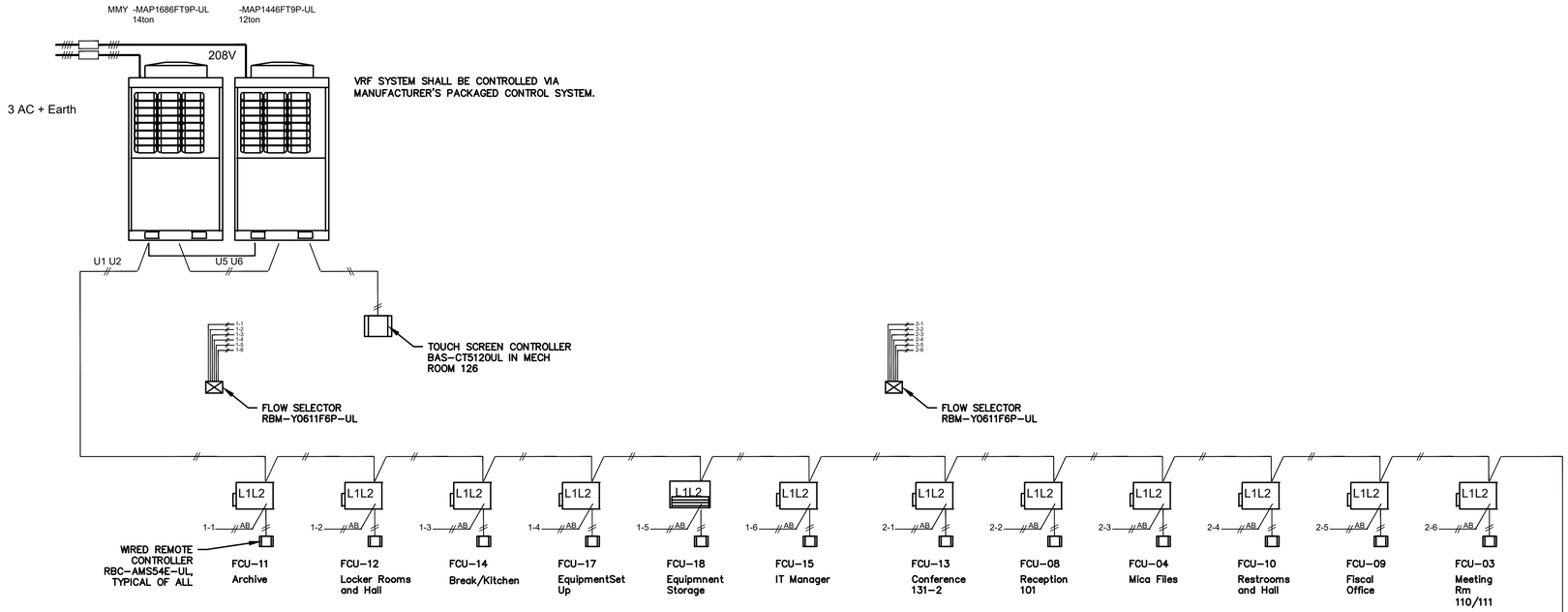
IDAHO DEPARTMENT OF LANDS DPW PROJECT #17-500
DEMO MICA AREA OFFICE A & EXPAND CDA STAFF OFFICE
3284 INDUSTRIAL LOOP, COEUR D'ALENE ID, 83815

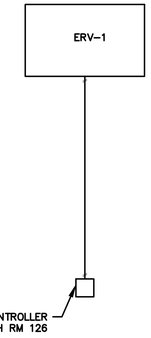
# MECH: REFRIGERANT PIPING

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | MAK |
| DRAWN BY | |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | MAK |
| REVISION | RECORD SET |

SHEET NO.
**M2.01**




## 1 VRF SYSTEM CONTROL DIAGRAM



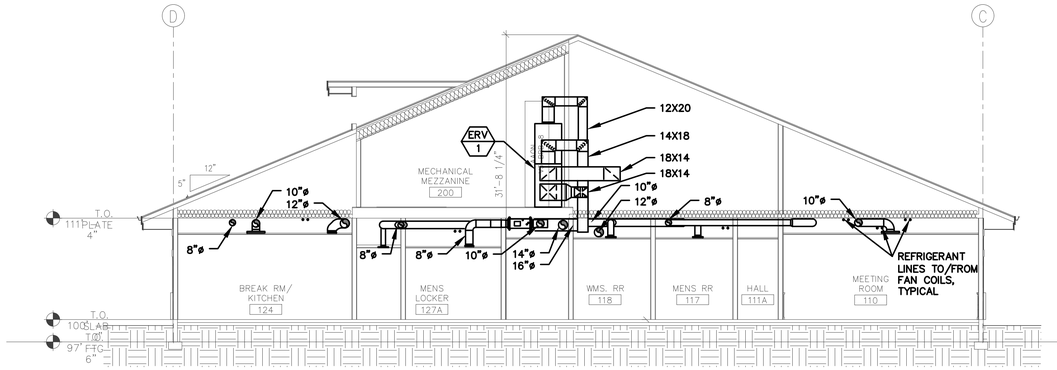

## 2 ERV CONTROL DIAGRAM

**SEQUENCE OF OPERATION**

THE ERV-1 SHALL RUN CONTINUOUSLY DURING OCCUPIED MODE

OCCUPIED MODE:
THE UNIT SHALL OPERATE CONTINUOUSLY WHEN OAD-1 IS PROVED OPEN BY RESPECTIVE END SWITCH (ES). INTERNAL CONTROLS SHALL OPERATE THE ENTHALPY WHEEL, DEFROST MODE, AND HEAT PUMP TO MAINTAIN A 65° OR GREATER DISCHARGE AIR TEMPERATURE.

UNOCCUPIED MODE:
THE UNIT SHALL NOT OPERATE




## 3 ELEVATION AT MEZZANINE

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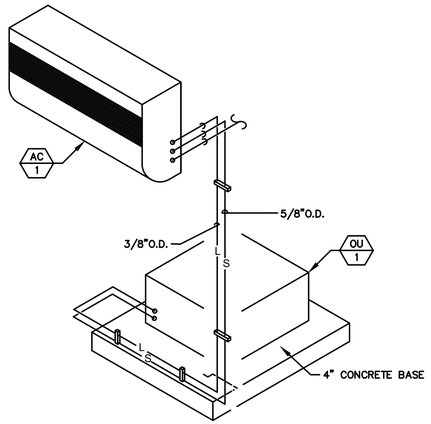
IDAHO DEPARTMENT OF LANDS DPW PROJECT #17-500
DEMO MICA AREA OFFICE A & EXPAND CDA STAFF OFFICE
3284 INDUSTRIAL LOOP, COEUR D'ALENE ID, 83815

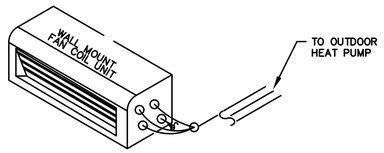
# MECHANICAL: DETAILS

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | MAK |
| DRAWN BY | |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | MAK |
| REVISION | RECORD SET |
| SHEET NO. | M3.01 |



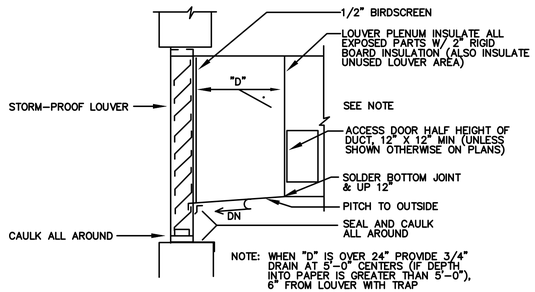

## 1 DUCTLESS SPLIT SYSTEM PIPING DIAGRAM

SCALE: NOT TO SCALE det#:



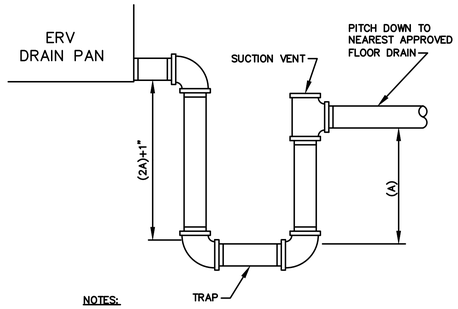

## 2 WALL MOUNTED AC UNIT DETAIL

SCALE: NOT TO SCALE det#:




## 3 LOUVER CONNECTION DETAIL

SCALE: NOT TO SCALE det#:

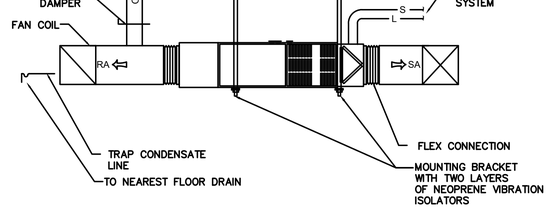



NOTES:

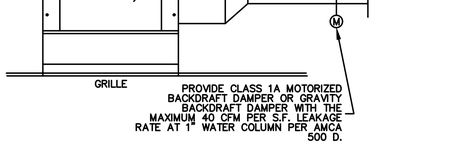
1. ALL CONDENSATE DRAIN LINES SHALL BE FULL SIZE OF DRAIN PAN OUTLET
2. A = UNIT TOTAL STATIC PRESSURE (T.S.P.)

## 4 CONDENSATE DRAIN DETAIL

SCALE: NOT TO SCALE det#:

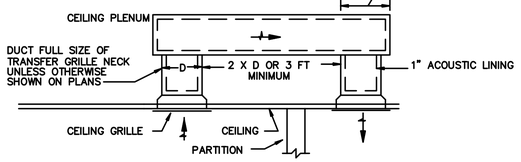



## 5 FAN COIL DETAIL

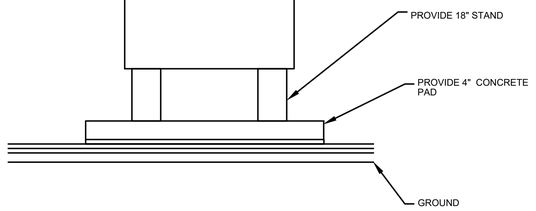



## 6 EXHAUST FAN DETAIL

SCALE: NOT TO SCALE det#:




## 7 TRANSFER BOOT W/ GRILLES




## 8 HEAT PUMP SUPPORT DETAIL

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# IDAHO DEPARTMENT OF LANDS DPW PROJECT #17-500
## DEMO MICA AREA OFFICE A & EXPAND CDA STAFF OFFICE
## 3284 INDUSTRIAL LOOP, COEUR D'ALENE ID, 83815

# MECHANICAL: DETAILS

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | MAK |
| DRAWN BY | |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | MAK |
| REVISION | RECORD SET |

SHEET NO.

**M4.01**

## ENERGY RECOVERY VENTILATOR (100% OUTSIDE AIR)

| # | SERVICE | MFR | MODEL | CFM O.A. | CFM EXHUAST | SUPPLY FAN | | | | EXHAUST FAN | | | | HEATING PERFORMANCES | | | | DESIGN TEMPS | | ELECTRICAL | | | | WEIGHT LBS. | EER | IERR | ENERGY WHEEL TOTAL EFFICIENCY | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | CFM | ESP (") | BHP | HP | CFM | ESP (") | BHP | HP | AMBIENT (DB) | MBH IN | MBH OUT | LAT (DB) | SUMMER (DB) | WINTER (DB) | MCA | MOCP | VOLT | PHASE | | | | | |
| ERV 1 | MICA BUILDING | AAON | V3-BRB-8 | 1350 | 1350 | 1350 | 1.5 | 1.80 | 1.34 | 1650 | 1.0 | 0.75 | 1.34 | 2° | – | – | 59 | 96.0 | 2 | – | 30 | 208 | 1 | 1272 | 12.5 | 9.7 | 70.7% | ①②③④ |

NOTES:
① PROVIDE 30% PRE-FILTERS. ② PROVIDE CLASS 1A MOTORIZED DAMPER. ③ MANUFACTURER SHALL PROVIDE STARTER. DIVISION 16 SHALL PROVIDE AND INSTALL DISCONNECT. ④ ECONOMIZER IS NOT PROVIDED PER EXCEPTION #7 IN C403.3

## HEAT PUMP (OUTDOOR UNIT)

| # | LOCATION | MFR MODEL # | HC BTUH | CC BTUH | WEIGHT | EER | ELECTRICAL VOLT | PHASE | MCA | MOCP | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| HP 2 | GROUND | CARRIER MMY-AP3126FT9P-UL | 351 | 312 | 838 | 10.5 | 208 | 3 | 66.2 | 70 | ① |
| HP 3 | GROUND | | | | 684 | 10.5 | 208 | 3 | 52.1 | 60 | ① |

NOTES:
① PROVIDE 18" STAND OR PLATFORM FOR HEAT PUMP UNIT ② ECONOMIZER IS NOT PROVIDED PER EXCEPTION #7 IN C403.3

## FLOW SELECTORS

| # | LOCATION | MFR MODEL # | WEIGHT | ELECTRICAL VOLT | PHASE | MCA | MOCP | NOTES |
|---|---|---|---|---|---|---|---|---|
| FS 1 | SEE FLOOR PLAN | CARRIER RBM-Y0611F6P-UL | 11 | 208/230 | 1 | 1.2 | 15 | ① |

NOTES:
① FS-1 TO BE LOCATED AS CLOSE TO ASSOCIATED FAN COIL AS POSSIBLE.

## EXHAUST FANS

| # | MFR | MODEL | SERVICE | DRIVE | CFM | ESP (") | FAN RPM | SONE LEVEL | MOTOR WATTS | MOTOR VOLTS | MOTOR PHASE | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EF 1 | PANASONIC | FV-05-11VSKI | MEZZANINE | DIRECT | 110 | 0.2 | 895 | 0.3 | 8.0 | 120 | 1 | ①②③ INTERLOCK WITH THERMOSAT |

① GRAVITY BACKDRAFT DAMPER WITH THE MAXIMUM 40 CFM PER S.F. LEAKAGE RATE AT 1" WATER COLUMN PER AMCA 500 D.
② FAN SHALL RUN IF THE TEMPERATURE IN THE ELECTRICAL ROOM EXCEEDES 85° F.

## AIR COOLED - HEAT PUMP

| # | MFR/MODEL | OPERATING WEIGHT (LBS) | SEER | UNIT AMB. AIR (°F) | UNIT AMPS | UNIT MOCP | UNIT V/ø | NOTES |
|---|---|---|---|---|---|---|---|---|
| HP 1 | CARRIER 38MGRQ48E | 224 | 22.4 | 95 | 35 | 50 | 208/1 | ①②③④ |

NOTES:
① PROVIDE LOW AMBIENT CONTROLS & CRANK CASE HEATER
② PROVIDE FACTORY BASE SUPPORT ASSEMBLY.
③ PROVIDE FACTORY REFRIGERANT LINE SET.
④ INTERLOCK WITH AC-1 & AC-2

## WALL MOUNTED AC UNIT SCHEDULE (HEAT PUMP)

| # | MANUFACTURER | MODEL # | CFM | COOLING BTUH (SENSIBLE) | HEATING BTUH (SENSIBLE) | ELECTRICAL VOLT | PH | MCA | NOTES |
|---|---|---|---|---|---|---|---|---|---|
| AC 1 | CARRIER | 40MAQB24B-3 | 620 | 24,000 | 24,000 | AC UNIT POWERED BY ASSOCIATED HP | | | ①②③④ |
| AC 2 | CARRIER | 40MAQB24B-3 | 620 | 24,000 | 24,000 | AC UNIT POWERED BY ASSOCIATED HP | | | ①②③④ |

NOTES:
① PROVIDE FACTORY WALL MOUNTING HARDWARE.
② PROVIDE FACTORY WALL MOUNTED T-STAT.
③ PROVIDE SLIDE-IN AIR FILTER.
④ PROVIDE CONDENSATE DRAIN PUMP

## FAN COIL UNIT SCHEDULE

| # | MFR/MODEL | SERVES | O.A. CFM | CFM | REQUIRED HEATING MBH | REQUIRED COOLING AMB. AIR (°F) | REQUIRED COOLING SENSIBLE MBH | ELECTRICAL VOLT | PH | MCA | FUSE | EER | IEER | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FCU 01 | CARRIER MMD-AP0094BH2UL | NORTH OPS 113 TECH SERVICES 112 | 45 | 280 | 10.5 | 95 | 8.8 | 230 | 1 | 1.0 | 15 | 11.8 | 21.6 | ① |
| FCU 02 | CARRIER MMD-AP0184BH2UL | TECH/GIS OFFICE 114 | 55 | 556 | 20 | 95 | 18 | 230 | 1 | 1.2 | 15 | 11.8 | 21.6 | ① |
| FCU 03 | CARRIER MMD-AP0244BH2UL | MEETING ROOM 110/111 | 200 | 556 | 25.8 | 95 | 17.3 | 230 | 1 | 1.8 | 15 | 11.8 | 21.6 | ① |
| FCU 04 | CARRIER MMD-AP0074BH2UL | MICA FILES 109 | 35 | 280 | 8.5 | 95 | 7.5 | 230 | 1 | 1.0 | 15 | 11.8 | 21.6 | ① |
| FCU 05 | CARRIER MMD-AP0074BH2UL | AREA MANAGER 105 | 10 | 280 | 8.5 | 95 | 7.5 | 230 | 1 | 1.0 | 15 | 11.8 | 21.6 | ① |
| FCU 06 | CARRIER MMD-AP0074BH2UL | R.S 106/107 OFFICE 108 | 30 | 280 | 20 | 95 | 16 | 230 | 1 | 0.5 | 15 | 11.8 | 21.6 | ① |
| FCU 07 | CARRIER MMD-AP0364BH2UL | MICA OPEN OFFICE 103 | 165 | 890 | 38 | 95 | 33 | 230 | 1 | 1.8 | 15 | 11.8 | 21.6 | ① |
| FCU 08 | CARRIER MMD-AP0124BH2UL | VEST. 100 RECEPTION 101 | 80 | 280 | 13.5 | 95 | 11.1 | 230 | 1 | 1.0 | 15 | 11.8 | 21.6 | ① |
| FCU 09 | CARRIER MMD-AP0124BH2UL | FISCAL FILES 115 FISCAL OFFICE 116 | 55 | 556 | 13.5 | 95 | 11.1 | 230 | 1 | 1.0 | 15 | 11.8 | 21.6 | ① |
| FCU 10 | CARRIER MMD-AP0124BH2UL | HALL 121 R.R. 117/118 | 100 | 280 | 13.5 | 95 | 11.1 | 230 | 1 | 1.0 | 15 | 11.8 | 21.6 | ① |
| FCU 11 | CARRIER MMD-AP0244BH2UL | ARCHIVE 122 | 100 | 556 | 25.8 | 95 | 17.3 | 230 | 1 | 1.8 | 15 | 11.8 | 21.6 | ① |
| FCU 12 | CARRIER MMD-AP0244BH2UL | CORRIDOR 121 LOCKERS 127/128 | 150 | 556 | 25.8 | 95 | 17.3 | 230 | 1 | 1.8 | 15 | 11.8 | 21.6 | ① |
| FCU 13 | CARRIER MMD-AP0094BH2UL | CONF. 131 CONF. LRG. 132 | 90 | 280 | 10.5 | 95 | 8.8 | 230 | 1 | 1.0 | 15 | 11.8 | 21.6 | ① |
| FCU 14 | CARRIER MMD-AP0184BH2UL | BREAK ROOM/ KITCHEN 124 | 35 | 556 | 20 | 95 | 18 | 230 | 1 | 1.2 | 15 | 11.8 | 21.6 | ① |
| FCU 15 | CARRIER MMD-AP0074BH2UL | IT MANAGER 133 | 15 | 280 | 8.5 | 95 | 7.5 | 230 | 1 | 1.0 | 15 | 11.8 | 21.6 | ① |
| FCU 16 | CARRIER MMD-AP0184BH2UL | IT OPEN OFFICE 134 | 75 | 556 | 20 | 95 | 18 | 230 | 1 | 1.2 | 15 | 11.8 | 21.6 | ① |
| FCU 17 | CARRIER MMD-AP0094BH2UL | EQUIPMENT SETUP 129 | 50 | 390 | 20 | 95 | 16 | 230 | 1 | 0.5 | 15 | 11.8 | 21.6 | ① |
| FCU 18 | CARRIER MMK-AP0183H2UL | EQUIPMENT STORAGE 135 | 25 | 280 | 10.5 | 95 | 8.8 | 230 | 1 | 1.0 | 15 | 11.8 | 21.6 | ①② |

① ECONOMIZER IS NOT PROVIDED PER EXCEPTION #7 IN C403.3
② PROVIDE CONDENSATE DRAIN PUMP

## AIR OUTLETS SCHEDULE

| # | MFR | MODEL | SERVICE | TYPE | MATERIAL | MOUNTING | BORDER | PATTERN | BLADE SPC (") | BLADE POS | BLADE DEFL (°) | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | TITUS | MCD | SUPPLY | DIFFUSER | STEEL | LAY-IN | TYPE 3 | 4-WAY ADJUST. | – | – | – | ①②③④ |
| 2 | TITUS | MCD | SUPPLY | DIFFUSER | STEEL | SURFACE | TYPE 1 | 4-WAY ADJUST. | – | – | – | ①②③ |
| 3 | TITUS | 350RL | RETURN/ EXHAUST | GRILLE | STEEL | LAY-IN | TYPE 3 | FIXED | 3/4" | FACE HORIZ. | 35° | ①②③④⑤ |
| 4 | TITUS | 350RL | RETURN/ EXHAUST | GRILLE | STEEL | SURFACE | TYPE 1 | FIXED | 3/4" | FACE HORIZ. | 35° | ①②③⑤ |
| 5 | TITUS | 300RS | SUPPLY | DIFFUSER | STEEL | SURFACE | TYPE 1 | DOUBLE DEFLECTION | 3/4" | – | – | ①②③ |
| 6 | TITUS | S300FL | SUPPLY | DIFFUSER | STEEL | SURFACE | TYPE 1 | DOUBLE DEFLECTION | 3/4" | – | – | ①②③ |
| 7 | TITUS | 350FL | RETURN/ EXHAUST | GRILLE | STEEL | LAY-IN | TYPE 3 | FIXED | 3/4" | FACE HORIZ. | 35° | ①②③④ |

NOTE:
① FINISH SHALL BE WHITE ANODIC ACRYLIC PAINT.
② PROVIDE BALANCING DAMPER IN BRANCH DUCT SERVING AIR OUTLET AT TAKEOFF FROM TRUNK DUCT. (ADDITIONAL DAMPERS FOR SYSTEM BALANCING ARE SHOWN ON DRAWINGS).
③ PROVIDE SQUARE TO ROUND TRANSITION AS REQUIRED.
④ PROVIDE 24"x24" PAN FOR LAY-IN CEILING INSTALLATION AS REQUIRED (SEE HVAC FLOOR PLANS).
⑤ PROVIDE AIR SCOOP FOR AIR BALANCING
⑤ PROVIDE FILTERS ON ALL RETURN GRILLES.

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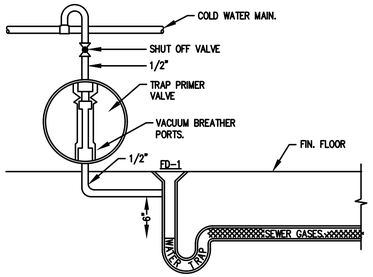
IDAHO DEPARTMENT OF LANDS DPW PROJECT #17-500
DEMO MICA AREA OFFICE A & EXPAND CDA STAFF OFFICE
3284 INDUSTRIAL LOOP, COEUR D'ALENE ID, 83815

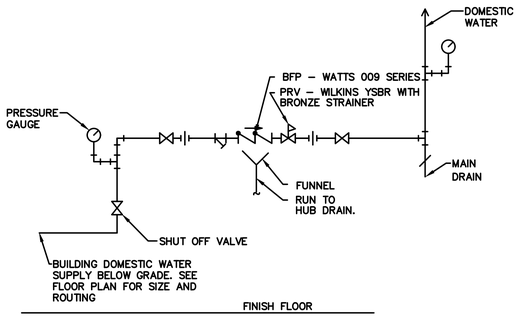
**MECHANICAL: SCHEDULES**

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | MAK |
| DRAWN BY | |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | MAK |
| REVISION | RECORD SET |
| SHEET NO. | M4.02 |



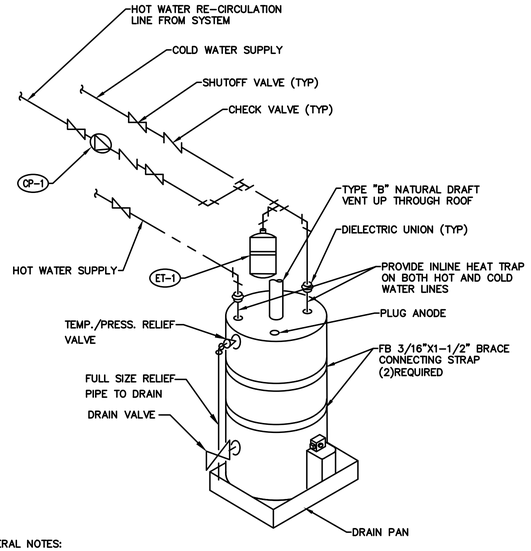

## 1 FLOOR DRAIN & TRAP PRIMER DETAIL

SCALE: NOT TO SCALE dtl#:




## 2 WATER HEADER DETAIL

SCALE: NOT TO SCALE dtl#:

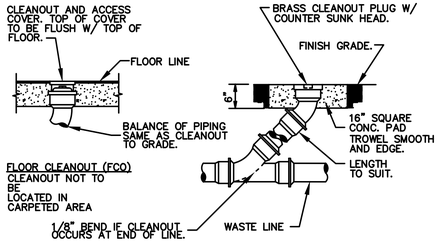



GENERAL NOTES:

1. WATER HEATER SHALL BE SUPPLIED WITH TEMPERATURE CONTROLS WHICH WILL PERMIT THE DISCHARGE TEMPERATURE TO BE SET TO 90° F, BUT WILL BE SET AT 110° F.
2. THE DOMESTIC HOT WATER RECIRCULATION PUMP IS TO BE CONNECTED TO A MINIMUM OF A 7-DAY TIME CLOCK THAT IS CAPABLE OF BEING SET FOR AT LEAST SEVEN (7) DIFFERENT DAY TYPES PER WEEK.
3. THE TIME CLOCK CONTROLLING THE DOMESTIC HOT WATER RECIRCULATION PUMP MUST HAVE BACK-UP CAPABILITIES THAT WILL RETAIN PROGRAM AND TIME SETTINGS FOR AT LEAST TEN (10) HOURS UPON A LOSS OF POWER.

## 4 GAS WATER HEATER

SCALE: NOT TO SCALE




## 3 FLOOR CLEANOUT TO GRADE

SCALE: NOT TO SCALE

## IECC COMPLIANCE

1. ELECTRIC WATER HEATERS LOCATED IN UNCONDITIONED SPACES OR ON CONCRETE FLOORS SHALL BE SEPARATED FORM THE SUPPORTING SURFACE WITH R-10 INSULATION AS DESCRIBED IN SECTION C404.4 OF THE WSEC.
2. PROVIDE HEAT TRAP ON SUPPLY AND DISCHARGE PIPING FROM WATER HEATER AS REQUIRED IN SECTION C404.4 OF WSEC. RHEEM SP2003 OR EQUAL.

## PLUMBING/PIPING SYMBOLS

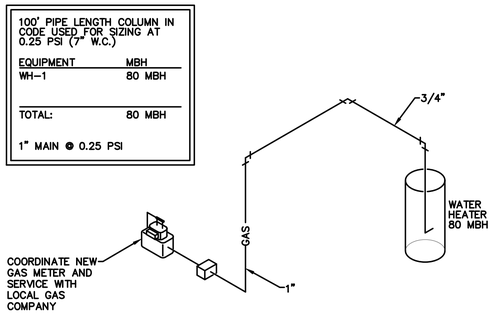
| | |
|---|---|
| | ELBOW UP |
| | ELBOW DOWN |
| | TEE UP |
| | TEE DOWN |
| | CONCENTRIC REDUCER/INCREASER |
| | ECCENTRIC REDUCER/INCREASER |
| | UNION |
| | RISE/DROP IN PIPE |
| | RISE/DROP IN PIPE & 90° TURN |
| | VENT THRU ROOF |
| | CAP |
| | CLEAN-OUT (WALL) |
| | CLEAN-OUT (FLUSH TO FLOOR OR GRADE) |
| | FLOOR DRAIN |
| | CIRCULATING PUMP (POINTS IN DIRECTION OF FLOW) |
| | VALVE (AS INDICATED OR SPECIFIED) |
| | CHECK VALVE |
| | PRESSURE & TEMPERATURE (RELIEF VALVE) |
| | PRESSURE REDUCING VALVE (POINTS TOWARDS LOW PRESSURE) |
| | GAS VALVE |
| S | SOLENOID VALVE |
| | HOSE BIBB |
| | CIRCUIT SETTER |
| | VALVE BOX W/ VALVE (AS SPECIFIED) |
| | CONNECTION TO EXISTING |
| | EXTENSION & CONTINUATION |

## ADDITIONAL SYMBOLS

| | |
|---|---|
| TYPE / # | SECTION DESIGNATION<br>SHEET NUMBER |
| # | DETAIL NUMBER<br>SHEET NUMBER |

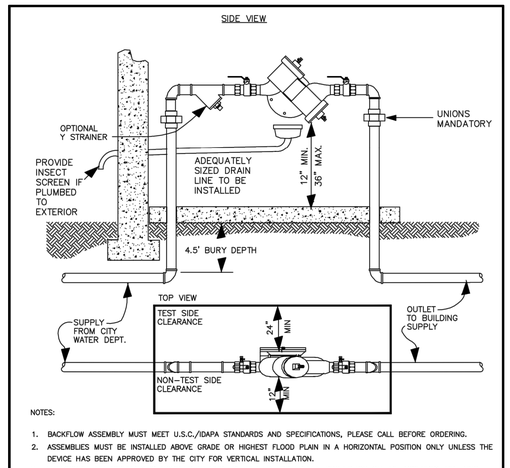
## PLUMBING FIXTURE SCHEDULE

| SYMBOL | DESCRIPTION | MANUFACTURER AND CATALOG # | TRIM & DETAIL REFERENCES | CONNECTIONS | | | | NOTES |
|---|---|---|---|---|---|---|---|---|
| | | | | HW | CW | W | V | |
| WC-1 | WATER CLOSET HANDICAP | CADET III FLOWISE #2835.128 | ELONGATED SEAT AND COVER | – | 1/2" | 3" | 2" | 1.128 GALLON FLUSH TANK, 17" RIM HEIGHT ELONGATED BOWL |
| U-1 | URINAL | AMERICAN STANDARD WASHBROOK 6501.010 (1.0 GPF) | SENSOR OPERATED FLUSH VALVE, FIXTURE CARRIER | – | 3/4" | 2" | 2" | MOUNT TO COMPLY WITH ADA REQUIREMENTS. SEE ARCHITECTURAL PLANS FOR LOCATION OF ADA FIXTURES |
| L-1 | LAVATORY | AMERICAN STANDARD AQUALYN #0476.028 | AMERICAN STANDARD RELIANT 7385.003.002 | 1/2" | 1/2" | 1-1/2" | 1-1/2" | GRID STRAINER, TAIL PIECE, P-TRAP, SUPPLIES, STOPS, ARCHITECTURAL PLANS FOR LOCATION OF ADA FIXTURES, PROVIDE INSULATION ON SUPPLIES AND DRAIN ON ADA FIXTURES, PROVIDE MANUAL MIXING VALVE TO LIMIT HOT WATER SUPPLY TO 105°F |
| S-1 | MOP SINK | MUSTEE 65M 24x36x10 | DELTA 28T910 | 1/2" | 1/2" | 3" | 2" | PROVIDE VACUUM BREAKER, 4' HOSE, HOSE HANGER |
| S-2 | DOUBLE COMPARTMENT SINK | JUST STYLUS DL-2233-A-GR | DELTA 26C3123-TI, INSINKERATOR LC-50 DISPOSAL | 1/2" | 1/2" | 2" | 2" | BASKET STRAINER, TAIL PIECE, P-TRAP, SUPPLIES, STOPS, ARCHITECTURAL PLANS FOR LOCATION OF ADA FIXTURES, PROVIDE INSULATION ON SUPPLIES AND DRAIN ON ADA FIXTURES, PROVIDE MANUAL MIXING VALVE TO LIMIT HOT WATER SUPPLY TO 105°F |
| S-3 | KITCHEN SINK SINGLE COMPARTMENT | JUST STYLUS DLR 1722 | SYMMONS S-245-5-LWG | 1/2" | 1/2" | 2" | 1 1/2" | INSULATE P-TRAP & EXPOSED H.W. LINES. PROVIDE HEAVY GUAGE OPTION |
| SH-1 | SHOWER | AQUATIC 1623BFSTD | 30X60 ADA | 1/2" | 1/2" | 2" | 1 1/2" | PROVIDE GRAB BARS, SEAT AND SHOWER CURTAIN |
| FD-1 | FLOOR DRAIN | JR SMITH FIG 2005 | SQUARE STRAINER, NICKEL BRONZE STRAINER, TRAP PRIMER CONNECTION | – | – | – | – | SEE DRAWINGS FOR DRAIN WASTE AND VENT SIZE |
| DF-1 | DRINKING FOUNTAIN | ELKAY LZSTL8WSLK | GRAY BI-LEVEL WITH WATER BOTTLE FILLER | – | 3/8" | 2" | 1-1/2" | |
| BF-1 | REDUCED PRESSURE BACK FLOW ASSEMBLY | WATTS LF009M-QT | AIR GAP DRAIN FITTING | – | 1-1/4" | – | – | BUILDING PROTECTION |
| WH-1 | GAS WATER HEATER | LOCHINVAR PRN075G | RE: P-2.G | 3/4" | 3/4" | – | – | 75 GALLON STORAGE, 70 MBH INPUT (2) 3" DIRECT VENTS PROVIDE 3" CONCENTRIC VENT KIT. |
| HB-1 | NON-FREEZE WALL HYDRANT | WOODFORD 25 | 3/4" | – | 3/4" | – | – | NON FREEZE WALL HYDRANT WITH INTERIOR VACUUM BREAKER -HANDLE KEY, 3/4 HOSE CONNECT. |
| CP-1 | HOT WATER CIRCULATION PUMP | TACO 006 B4 10 GPM, 9 FT HEAD | N/A | 1/2" | – | – | – | 120/1 ELECTRICAL WITH 1/40 HP |
| ET-1 | EXPANSION TANK | THERM – XTROL ST-5-C | RE: P-2.D | – | – | – | – | |




## 5 GAS CALC & RISER DIAGRAM

SCALE: NOT TO SCALE




NOTES:

1. BACKFLOW ASSEMBLY MUST MEET U.S.C./IDAPA STANDARDS AND SPECIFICATIONS, PLEASE CALL BEFORE ORDERING.
2. ASSEMBLIES MUST BE INSTALLED ABOVE GRADE OR HIGHEST FLOOD PLAIN IN A HORIZONTAL POSITION ONLY UNLESS THE DEVICE HAS BEEN APPROVED BY THE CITY FOR VERTICAL INSTALLATION.
3. ENCLOSURE THE ASSEMBLY IS MOUNTED IN MUST BE HEATED FOR FREEZE PROTECTION OF THE ASSEMBLY, BUT MUST PROVIDE ADEQUATE CLEARANCE FOR TESTING AND MAINTENANCE OF ASSEMBLY, MIN. 12" FOR NON TEST SIDE, 24" FOR THE TEST SIDE.
4. TEST COCKS ARE REQUIRED TO FACE AWAY FROM WALLS AND NEAREST STATIONARY OBJECT, AND AT NO TIME BE LESS THAN 24" CLEARANCE.
5. THERE MUST BE NO UNPROTECTED BRANCH PIPING CONNECTED TO THE SUPPLY PIPE BETWEEN THE CITY SERVICE SUPPLY LINE AND THE ASSEMBLY.
6. IF PREMISE ISOLATION IS REQUIRED AND THE RP HAS NOT BEEN INSTALLED IMMEDIATELY DOWNSTREAM OF THE METER METER BOX, THE ENTIRE LENGTH OF THE WATER SERVICE FROM METER BOX TO THE BACKFLOW ASSEMBLY SHALL BE ENCASED IN 3" – 6" OF CONCRETE PER STANDARD DRAWING W-22.
7. ALL MEASUREMENTS ARE FROM THE LOWEST OR WIDEST PART OF THE ASSEMBLY.
8. ALL ASSEMBLIES ARE SUSCEPTIBLE TO FREEZING AND SHALL BE ADEQUATELY FREEZE PROTECTED.
9. ADEQUATE DRAINAGE FROM THE ASSEMBLY MUST BE PROVIDED.

| REVISION | APPROVED | DATE |
|---|---|---|
| | | |

CITY OF COEUR d'ALENE STANDARD DRAWING

*APPROVED RPBA INSTALL FOR INTERIOR ISOLATION*

APPROVED BY: CITY ENGINEER, PE 7432 DATE: 4/1/08

DWG NO. W-32

## 6 RPBA INSTALLATION DETAIL

SCALE: NOT TO SCALE dtl#:

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# IDAHO DEPARTMENT OF LANDS DPW PROJECT #17-500
## DEMO MICA AREA OFFICE A & EXPAND CDA STAFF OFFICE
## 3284 INDUSTRIAL LOOP, COEUR D'ALENE ID, 83815

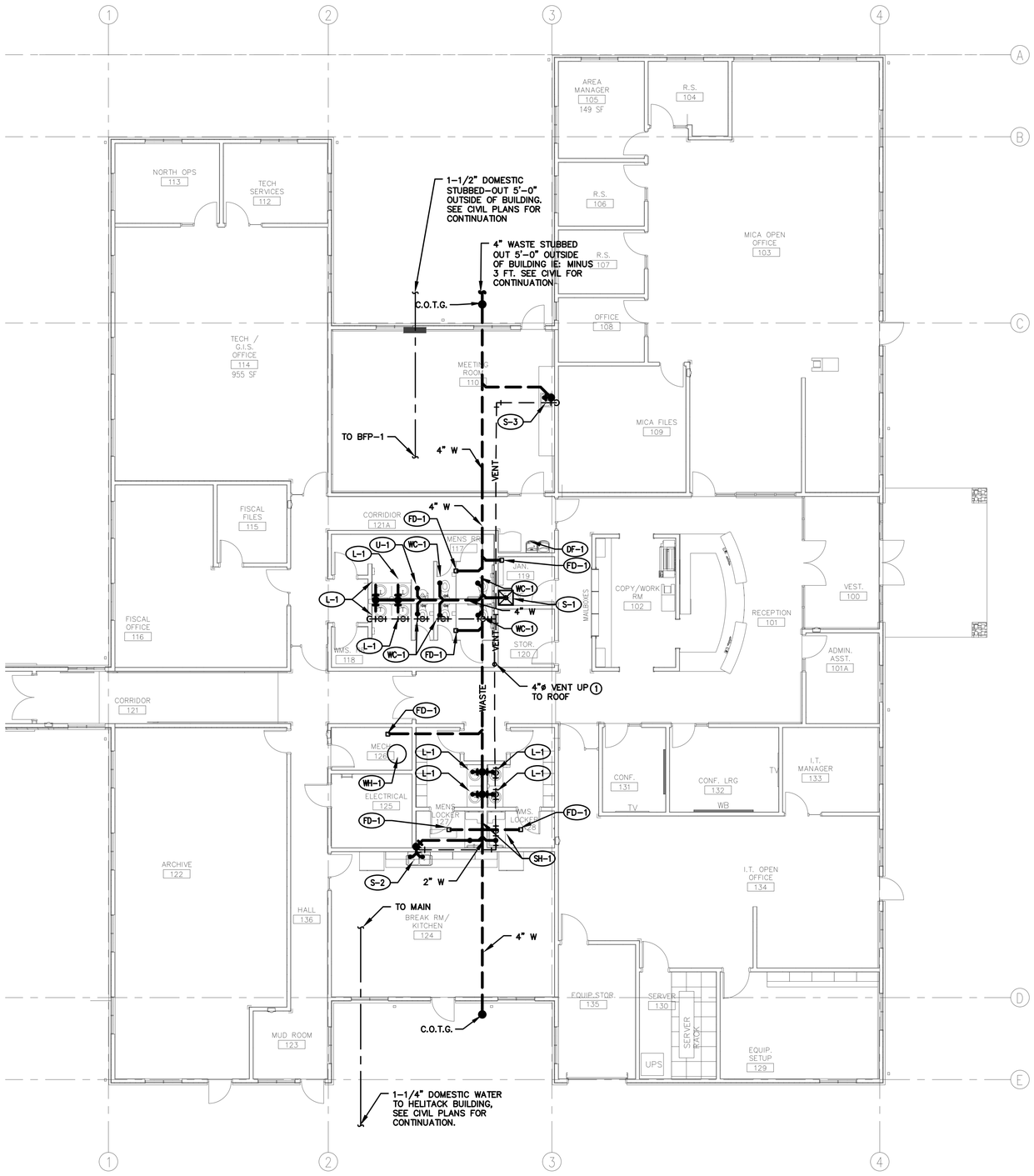
# PLUMBING NOTES, LEGENDS, & SCHEDULES

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | MAK |
| DRAWN BY | |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | MAK |
| REVISION | RECORD SET |
| SHEET NO. | |

# P0.01

## PLUMBING LEGEND

| SYMBOL OR ABBREVIATION | MEANING | SYMBOL OR ABBREVIATION | MEANING |
|---|---|---|---|
| ——— ——— ——— | SOIL OR WASTE BELOW GRADE | C.O.T.G. | CLEAN OUT TO GRADE |
| ——— ——— ——— | SOIL OR WASTE ABOVE GRADE | V | VENT |
| — — — — — — | VENT | C.O. | CLEANOUT |
| ——— HWR ——— | RECIRCULATED HOT WATER | VTR | VENT THRU ROOF |
| ——— CW ——— | COLD WATER | W.C.O. | WALL CLEANOUT |
| ——— HW ——— | HOT WATER | F.C.O. | FLOOR CLEANOUT |
| ———G——— | GAS | CWM | COLD WATER MAIN |




## 1 PLUMBING - WASTE & VENT PLAN

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

NORTH

## GENERAL NOTES

1. SLOPE ALL SEWERS 1/4" PER FOOT WHEN POSSIBLE. NO LINES SHALL BE LESS THAN 1/8" PER FOOT.
2. FOR THE PURPOSES OF CLEARNESS AND LEGIBILITY, DRAWINGS ARE DIAGRAMMATIC AND FOR DESIGN INTENT ONLY. CONTRACTOR MUST VERIFY ALL DIMENSIONS BY FIELD MEASUREMENT BEFORE BEGINNING ANY FABRICATION OR CONSTRUCTION.
3. ALL WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE CURRENT STATE AND LOCAL PLUMBING CODES AND ORDINANCES.
4. CONTRACTOR SHALL INSTALL AL EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
5. COORDINATE EXACT LOCATION OF PIPING WITH OTHER TRADES.
6. ALL SOIL PIPING SHALL BE SCH 40 PVC WITH SOLVENT FITTINGS OR DWV CAST IRON WITH NO HUB FITTINGS.
7. ALL VENT PIPING SHALL BE ABOVE FLOOD RIM LEVEL OF HIGHEST FIXTURE BEFORE CONNECTION TO COMMENT VENTS.
8. HORIZONTAL DRAINAGE PIPE SHALL BE PROVIDED WITH A CLEANOUT AT ITS UPPER TERMINAL AND EACH RUN OF PIPING, THAT IS MORE THAN 100' IN TOTAL DEVELOPED LENGTH. CLEANOUTS SHALL BE PROVIDED IN A DRAINAGE LINE FOR EACH AGGREGATE HORIZONTAL CHANGE OF DIRECTION EXCEEDING ONE HUNDRED THIRTY FIVE DEGREES.

## KEYED NOTES

(1) 4"ø VENT THROUGH ROOF. CONTRACTOR TO LOCATE COMBUSTION VENT SOUTH OF ROOF RIDGE SO NOT VISIBLE FROM ENTRY.

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# IDAHO DEPARTMENT OF LANDS DPW PROJECT #17-500
## DEMO MICA AREA OFFICE A & EXPAND CDA STAFF OFFICE
## 3284 INDUSTRIAL LOOP, COEUR D'ALENE ID, 83815

## PLUMBING: WASTE & VENT PLAN

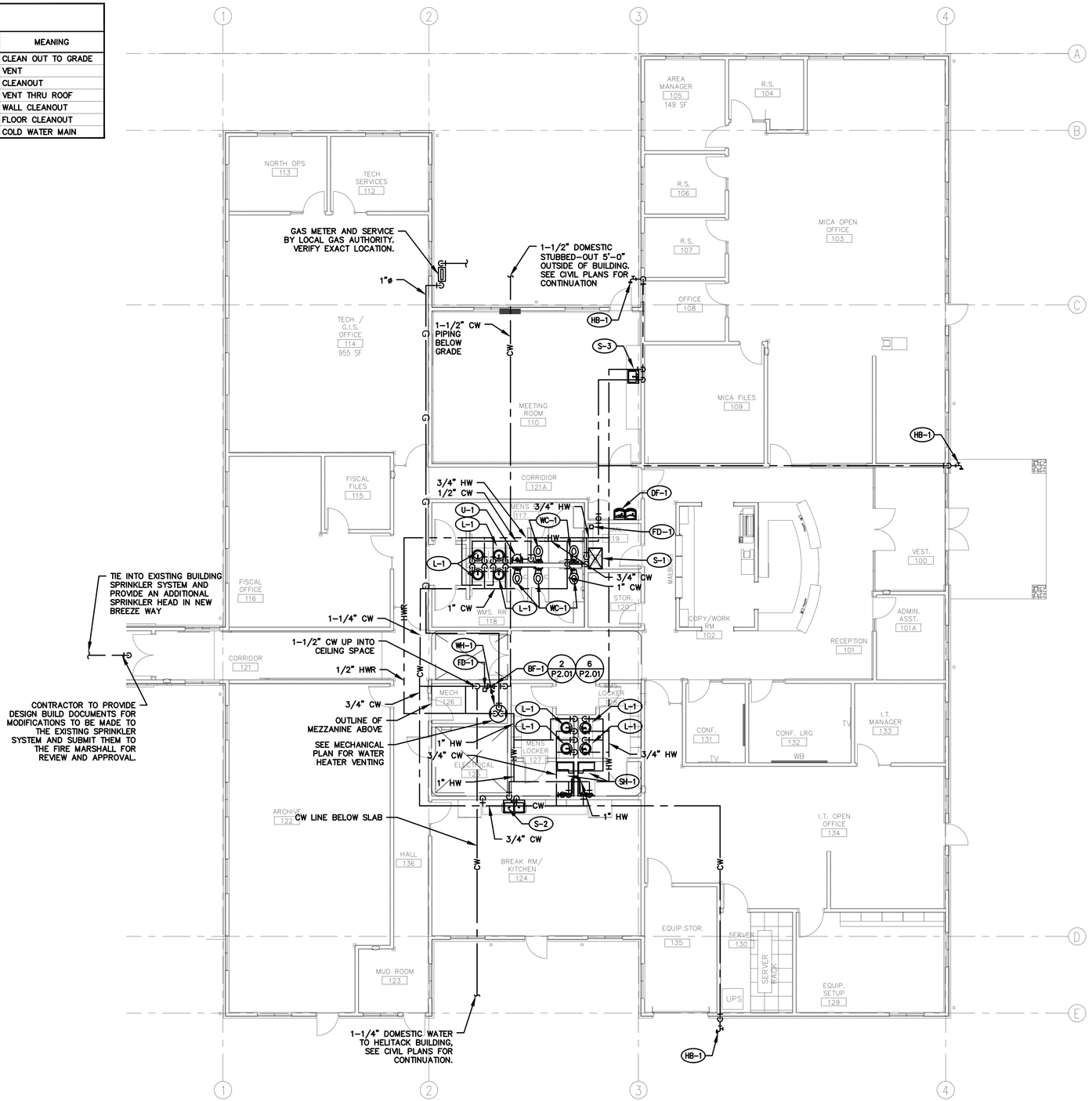
| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | MAK |
| DRAWN BY | |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | MAK |
| REVISION | RECORD SET |

SHEET NO.

**P1.01**

## PLUMBING LEGEND

| SYMBOL OR ABBREVIATION | MEANING | SYMBOL OR ABBREVIATION | MEANING |
|---|---|---|---|
| | SOIL OR WASTE BELOW GRADE | C.O.T.G. | CLEAN OUT TO GRADE |
| | SOIL OR WASTE ABOVE GRADE | V | VENT |
| | VENT | C.O. | CLEANOUT |
| HWR | RECIRCULATED HOT WATER | VTR | VENT THRU ROOF |
| CW | COLD WATER | W.C.O. | WALL CLEANOUT |
| HW | HOT WATER | F.C.O. | FLOOR CLEANOUT |
| G | GAS | CWM | COLD WATER MAIN |




## 1 PLUMBING - DOMESTIC WATER & GAS PLAN

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

NORTH

## GENERAL NOTES

1. FOR THE PURPOSES OF CLEARNESS AND LEGIBILITY, DRAWINGS ARE DIAGRAMMATIC AND FOR DESIGN INTENT ONLY. CONTRACTOR MUST VERIFY ALL DIMENSIONS BY FIELD MEASUREMENT BEFORE BEGINNING ANY FABRICATION OR CONSTRUCTION.
2. ALL WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE CURRENT STATE AND LOCAL PLUMBING CODES AND ORDINANCES.
3. CONTRACTOR SHALL INSTALL ALL EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
4. COORDINATE EXACT LOCATION OF PIPING WITH OTHER TRADES.

## WATER CALCULATION

| | |
|---|---|
| AVAILABLE PRESSURE | 60 |
| BACKFLOW PREVENTOR | −10 |
| PRESS. LOSS ACROSS METER | −6 |
| STATIC PRESS. LOSS (ELEV.) 15'−0" x .43= | −6.5 |
| MIN. PRESS. AT LAST FIXTURE | −8 |
| PERMITTED AVAIL. PIPING PRESS. LOSS | 29.5 |
| TOTAL EQUIVALENT DISTANCE | 250 FT |

ALLOWABLE PRESSURE LOSS PRE 100 FT. = 29.5 X 100 / 150 FT = 19.6

| FIXTURE | QUAN. | F.U DEVICE | TOTAL FU |
|---|---|---|---|
| WATER CLOSET(FLUSH VALVE) | 5 | 3 | 15 |
| URINAL | 1 | 3 | 3 |
| LAVATORY | 8 | 8 | 8 |
| MOP SINK | 1 | 3 | 3 |
| 2−COMPARTMENT SINK | 1 | 1.5 | 1.5 |
| SINGLE COMPARTMENT SINK | 1 | 1.5 | 1.5 |
| SHOWER | 2 | 2 | 4 |
| HOSE BIBB | 1 | 2.5 | 2.5 |
| ADDITIONAL HOSE BIBB | 2 | 1 | 5 |
| | TOTAL F.U. | | 39.5 |

METER SIZE 1−1/2"
SUPPLY MAIN SIZE 1−1/2"

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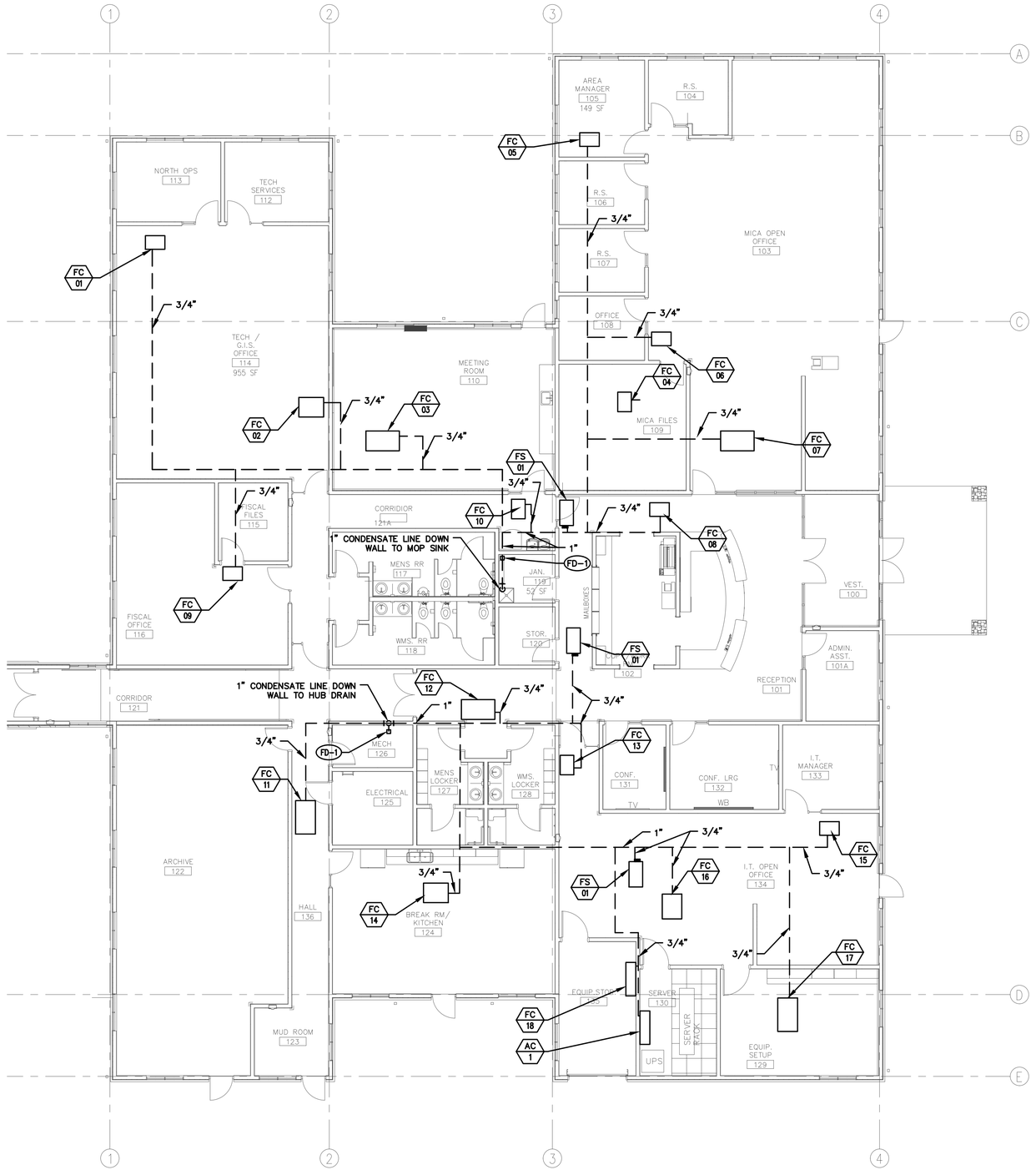
# IDAHO DEPARTMENT OF LANDS DPW PROJECT #17-500
## DEMO MICA AREA OFFICE A & EXPAND CDA STAFF OFFICE
### 3284 INDUSTRIAL LOOP, COEUR D'ALENE ID, 83815

## PLUMBING: DOMESTIC WATER & GAS PLAN

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | MAK |
| DRAWN BY | |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | MAK |
| REVISION | RECORD SET |
| SHEET NO. | P2.01 |




## GENERAL NOTES

1. SLOPE ALL SEWERS 1/4" PER FOOT WHEN POSSIBLE. NO LINES SHALL BE LESS THAN 1/8" PER FOOT.
2. FOR THE PURPOSES OF CLEARNESS AND LEGIBILITY, DRAWINGS ARE DIAGRAMMATIC AND FOR DESIGN INTENT ONLY. CONTRACTOR MUST VERIFY ALL DIMENSIONS BY FIELD MEASUREMENT BEFORE BEGINNING ANY FABRICATION OR CONSTRUCTION.
3. ALL WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE CURRENT STATE AND LOCAL PLUMBING CODES AND ORDINANCES.
4. CONTRACTOR SHALL INSTALL AL EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
5. COORDINATE EXACT LOCATION OF PIPING WITH OTHER TRADES.

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

NORTH

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## DEMO MICA AREA OFFICE A & EXPAND CDA STAFF OFFICE
### 3284 INDUSTRIAL LOOP, COEUR D'ALENE ID, 83815

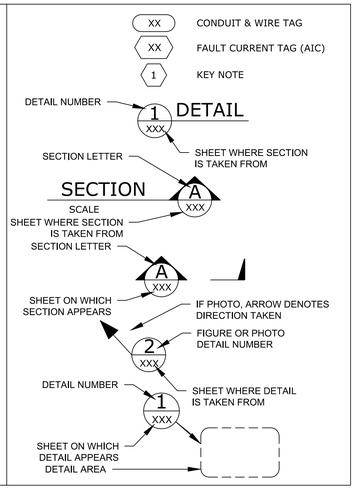
## PLUMBING: CONDENSATE DRAIN PLAN

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | MAK |
| DRAWN BY | |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | MAK |
| REVISION | RECORD SET |
| SHEET NO. | P3.01 |

# ABBREVIATIONS

| | |
|---|---|
| AFC | AVAILABLE FAULT CURRENT |
| AFG | ABOVE FINISHED GRADE |
| AF | AMP FRAME |
| AFCI | ARC FLASH CIRCUIT INTERRUPTER |
| AFF | ABOVE FINISHED FLOOR |
| AIC | AMPERE INTERRUPTING CAPACITY |
| AHJ | AUTHORITY HAVING JURISDICTION |
| ATS | AUTOMATIC TRANSFER SWITCH |
| C | CONDUIT OR CEILING |
| CATV | CABLE TELEVISION |
| CB | CIRCUIT BREAKER |
| CCTV | CLOSED CIRCUIT TELEVISION |
| CL | CONNECTOR LIGHTING |
| CO | CONDUIT ONLY |
| COMM | COMMUNICATIONS |
| DDC | DIRECT DIGITAL CONTROLS |
| DP | DISTRIBUTION PANELBOARD |
| EC | ELECTRICAL CONTRACTOR |
| EM | EMERGENCY |
| EMT | ELECTRICAL METALLIC TUBING |
| ER | EXISTING TO REMAIN |
| FAAP | FIRE ALARM ANNUNCIATOR PANEL |
| FACP | FIRE ALARM CONTROL PANEL |
| FATC | FIRE ALARM TERMINAL CABINET |
| FCIO | FURNISHED BY CONTRACTOR, INSTALLED BY OWNER |
| FOIC | FURNISHED BY OWNER, INSTALLED BY CONTRACTOR |
| GFCI | GROUND FAULT CIRCUIT INTERRUPTER |
| GFP | GROUND FAULT PROTECTION |
| GND | GROUND |
| HTR | HEATER |
| IG | ISOLATED GROUND |
| IMC | INTERMEDIATE METALLIC CONDUIT |
| JBOX | JUNCTION BOX |
| LCP | LIGHTING CONTROL PANEL |
| LTG | LIGHTING |
| MCA | MINIMUM CIRCUIT AMPACITY |
| MCC | MOTOR CONTROL CENTER |
| MDP | MAIN DISTRIBUTION PANEL |
| MGAP | MEDICAL GAS ALARM PANEL |
| MLO | MAIN LUGS ONLY |
| MOCP | MAXIMUM OVERCURRENT PROTECTION |
| MS | MOTOR STARTER |
| MTD | MOUNTED |
| NAC | NOTIFICATION APPLIANCE CABINET |
| NEC | NATIONAL ELECTRICAL CODE |
| NIC | NOT IN CONTRACT |
| NL | NIGHT LIGHT |
| NTS | NOT TO SCALE |
| OC | ON CENTER |
| OH | OVERHEAD |
| OS | OCCUPANCY SENSOR |
| PIV | POST INDICATOR VALVE |
| PNL | PANEL |
| PVC | POLYVINYL CHLORIDE |
| R | EXISTING TO BE REMOVED |
| RCPT | RECEPTACLE |
| RMC | RIGID METAL CONDUIT |
| SAC | SMALL APPLIANCE CIRCUIT |
| SB,SWBD | SWITCHBOARD |
| SG | SWITCHGEAR |
| SPD | SURGE PROTECTIVE DEVICE |
| TEL | TELEPHONE |
| TR | TAMPER RESISTANT |
| TYP | TYPICAL |
| UON | UNLESS OTHERWISE NOTED |
| UL | UNDERWRITERS LABORATORIES |
| UG | UNDERGROUND |
| VD | VOLTAGE DROP |
| VFD | VARIABLE FREQUENCY DRIVE |
| W | WEATHERPROOF (WHILE IN USE) |
| WP | WEATHERPROOF |
| XFMR | TRANSFORMER |

# REFERENCE SYMBOLS




# PROJECT SYMBOLS/LEGENDS/DESIGNATIONS

## LIGHTING

- LUMINAIRE, SURFACE
- LUMINAIRE, RECESSED
- STRIP, SURFACE OR PENDANT AS INDICATED IN LUMINAIRE SCHEDULE
- LUMINAIRE, EMERGENCY
- LUMINAIRE, CEILING MOUNTED
- LUMINAIRE, WALL MOUNT
- LIGHTED EXIT SIGN, ARROW INDICATES DIRECTION
- EMERGENCY WALL PACK
- LUMINAIRE, POLE MOUNTED
- LUMINAIRE, PENDANT MOUNTED

## FIRE ALARM

- FACP — FIRE ALARM CONTROL PANEL
- FAAP — FIRE ALARM ANNUNCIATOR
- SMOKE DETECTOR
- DUCT SMOKE DETECTOR
- F — MANUAL PULL STATION
- HEAT DETECTOR
- HORN STROBE
- C — HORN STROBE CEILING MOUNT
- STROBE
- C — STROBE CEILING MOUNT
- S — SPEAKER STROBE WALL MOUNT

## POWER

- VFD — VARIABLE FREQUENCY DRIVE
- SSS, IC, BP — SOLID STATE STARTER, REDUCED VOLTAGE WITH ISOLATION & BYPASS CONTACTORS
- CONDUCTORS NOT CONNECTED.
- CONDUCTORS CONNECTED.
- PULL OUT SWITCH/PLUG-RECEPTACLE CONNECTION
- NORMALLY OPEN CONTACT (WHEN DE-ENERGIZED)
- NORMALLY CLOSED CONTACT (WHEN DE-ENERGIZED)
- UNIT HEATER
- HARDWIRED CONNECTION
- EQUIPMENT TO BE REMOVED
- ST — SHUNT TRIP PUSHBUTTON OR KEY-SWITCH
- T — THERMOSTAT
- PANELBOARD, SWITCHBOARD, OR SWITCHGEAR. DASHED BOX INDICATES CODE REQUIRED WORKING CLEARANCE
- CONDUIT CONCEALED IN WALL, CEILING, UNDER FLOOR, IN FLOOR SLAB, OR ROUTED UNDERGROUND
- CONDUIT EXPOSED
- E — E — EXISTING CONDUIT ROUTED UNDERGROUND
- OE — OVERHEAD ELECTRICAL
- EXTRA-HARD USAGE FLEXIBLE CORD
- CONDUIT FLEXIBLE.
- CONDUIT TURNED UP OR TOWARD
- CONDUIT TURNED DOWN OR AWAY
- CONDUIT CAPPED
- CONDUIT SEALS. CLASS . I DIV. 1 OR DIV 2 EXPLOSION PROOF
- P1-1, P1 — CONDUIT HOME RUN 3/4"C, 2#12 & 1#12 GND. UNLESS SHOWN OTHERWISE. (EXAMPLE SHOWN: TO PANEL P1, CIRCUIT 1)
- CONDUIT HOME RUN - SEE CONDUIT AND WIRE SCHEDULE.
- HH1 — HANDHOLE WITH DESIGNATION
- J — JUNCTION BOX
- MANUAL OR AUTOMATIC TRANSFER SWITCH.

| SCHEMATIC | PLAN | |
|---|---|---|
| 30A / 2P | CB | CIRCUIT BREAKER, RATING/NO. OF POLES WITH THERMAL MAGNETIC CIRCUIT BREAKER TRIP, UNLESS OTHERWISE NOTED |
| 200/3 200AF | | FUSED CIRCUIT BREAKER, 200/3=BREAKER RATING/POLES, 200AF=FUSE RATING |
| | | GROUND ROD IN GROUND ROD BOX |
| | - + | BATTERY |
| | T | TRANSFORMER |
| 3 | CT | CURRENT TRANSFORMER, NUMBER INDICATES NUMBER OF C.T.'S |
| 10 | | MOTOR, NUMBER INDICATES HORSEPOWER |
| 1/4 | | EXHAUST OR SUPPLY FAN, NUMBER INDICATES H.P. |
| 150W | | ELECTRIC HEATER, WATTAGE INDICATED |
| G | | GENERATOR |
| 2 | | MAGNETIC MOTOR STARTER<br>FVNR = FULL VOLTAGE NON-REVERSING<br>FVR = FULL VOLTAGE REVERSING<br>2 = NEMA SIZE |
| | | MAGNETIC MOTOR STARTER W/DISCONNECT |
| 60A | 60A | DISCONNECT SWITCH, NON FUSED (60A) INDICATES AMPERAGE RATING |
| 100AF 200AS | F 200/100 | DISCONNECT SWITCH, FUSED 200=SWITCH RATING, 100=FUSE RATING |
| M | | UTILITY WATT HOUR METER |
| | $M | MOTOR RATED SWITCH. WHERE "M" INDICATED, PROVIDE A MANUAL MOTOR STARTER W/OVERLOAD |

# COMMUNICATIONS

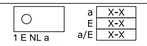
- ▲# — WALL MOUNTED TELECOMMUNICATIONS OUTLET. 18" AFF, UON. # INDICATES QUANTITY OF VOICE AND DATA JACKS. PULLSTRING ALWAYS PROVIDED. WHERE NO QUANTITY IS NOTED, PROVIDE 2 DATA JACKS, AND PULLSTRING
- ▲W — WALL PHONE 43" AFF, PROVIDE 1 DATA JACK, AND PULLSTRING
- ▲# — FLOOR OR CEILING MOUNTED TELECOMMUNICATIONS OUTLET. # INDICATES QUANTITY OF VOICE AND DATA JACKS. PULLSTRING ALWAYS PROVIDED. WHERE NO QUANTITY IS NOTED, PROVIDE 4 DATA JACKS, AND PULLSTRING
- WAP — WIRELESS ACCESS PORT; SEE SPECIAL SYSTEMS CONNECTION SCHEDULE, WHEN INCLUDED ON PLANS.
- (S)(C) — WALL MOUNTED SPEAKER/CLOCK COMBINATION
- (C) — WALL CLOCK
- (S) — WALL OR CEILING MOUNTED SPEAKER
- CABLE TRAY
- TV — TELEVISION OUTLET, 18" AFF UON. STUB 3/4" CO INTO ACCESSIBLE CEILING SPACE.
- SHORT THROW PROJECTOR. MOUNT AT 86" AFF.
- A/V — RECESSED AUDIO FLOOR BACK BOX, OUTLET AND CONDUIT

# SECURITY

- A — ACCESS CONTROL PANEL
- PTZ / PTZ — IP SECURITY CAMERA. CONTRACTOR TO PROVIDE JUNCTION BOX AND 3/4" CONDUIT WITH NYLON PULL STRING TO ACCESSIBLE CEILING SPACE.<br>PTZ = PAN TILT ZOOM<br>NOT SHADED = INDOOR<br>SHADED = OUTDOOR
- PROXIMITY CARD READER
- ADA PUSH BUTTON
- R — REQUEST TO EXIT
- D — DOOR CONTACT
- DH — MAGNETIC DOOR HOLD (SECURITY)

# CIRCUIT DESIGNATION

LUMINAIRE, TYPICAL:




- "1" — INDICATES TYPE PER LUMINAIRE SCHEDULE.
- "NL" — INDICATES NIGHT LIGHT LUMINAIRE.
- X-X — INDICATES PANELBOARD AND CIRCUIT PROVIDING POWER TO SWITCHLEG INDICATED FOR LUMINAIRES CONTAINED IN SAME ROOM/AREA.
- "a" — INDICATES CONTROL PER SWITCH.
- "E" — INDICATES POWER TO UNSWITCHED EMERGENCY LIGHTING CONTAINED IN SAME ROOM/AREA.

RECEPTACLE, TYPICAL: PNL-4 PNL 04

- "PNL" — INDICATES POWER SOURCE.
- "4" — INDICATES CIRCUIT NUMBER.
- PNL X — ROOM CIRCUITING UNLESS OTHERWISE NOTED, ALL RECEPTACLES IN ROOM ARE TO BE CIRCUITED FROM THIS CIRCUIT.

# LUMINAIRE CONTROLS

$x — SWITCH

| | | |
|---|---|---|
| 2 | = | DOUBLE POLE SWITCH |
| 3 | = | THREE WAY SWITCH |
| 4 | = | FOUR WAY SWITCH |
| P | = | SWITCH AND PILOT LAMP |
| K | = | KEY OPERATED SWITCH |
| T | = | SWITCH WITH TIMER |

- PE — PHOTO ELECTRIC CELL
- F — NEW LUMINAIRE CONTROL. SEE LIGHTING CONTROL LEGEND LOCATED ON LIGHTING SHEETS.
- OS — LIGHTING WITHIN ROOM CONTROLLED BY CEILING MOUNTED OCCUPANCY SENSORS. PROVIDE SHOP DRAWINGS OF OCCUPANCY SENSOR SYSTEM AS PER PROJECT SPECIFICATION AS PART OF THE SUBMITTAL PROCESS PRIOR TO COMMENCEMENT OF LABOR.

# SHEET INDEX


| | |
|---|---|
| E0.01 | GENERAL NOTES, ABBREVIATIONS AND LEGENDS |
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| E1.00 | SITE ELECTRICAL PLAN |
| E1.01 | SITE PHOTOMETRICS PLAN |
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| E3.01 | POWER FLOOR PLAN |
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| E4.01 | SYSTEMS FLOOR PLAN |
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| E7.04 | ENERGY CODE COMPLIANCE - HEAT TRACE SCHEDULES |


# RECEPTACLES

- SPECIAL PURPOSE RECEPTACLE, RATING AS INDICATED
- STANDARD RECEPTACLES: 125V, 20A 18" AFF, UON. TYPES: SIMPLEX /DUPLEX /QUADRUPLEX /FLOOR DUPLEX /FLOOR QUADRUPLEX
- GFCI RECEPTACLES: 125V, 20A 18" AFF, UON. TYPES: SIMPLEX /DUPLEX /QUADRUPLEX

| | | |
|---|---|---|
| X | | |
| C | = | CEILING MOUNTED |
| S | = | HALF SWITCHED |
| I | = | ISOLATED GROUND |
| TR | = | TAMPER RESISTANT |
| a | = | LOWER CASE LETTER INDICATES SWITCH CONTROL |
| 2" | = | MEASUREMENT INDICATES HEIGHT ABOVE BACKSPLASH/MILLWORK |
| A | = | INDICATES MOUNT ABOVE BACKSPLASH/MILLWORK. COORDINATE HEIGHT WITH TRADES. |
| USB | = | INDICATES 20A 120V DUPLEX RECEPTACLE WITH USB CHARGER. |
| CT | = | SWITCHED RECEP, INDICATES FULL CONTROLLED DEDICATED 20A 120V DUPLEX |
| CH | = | SWITCHED RECEP, INDICATES HALF CONTROLLED DEDICATED 20A 120V DUPLEX |

- (X) — SURFACE METAL RACEWAY WITH RECEPTACLE @ X" O.C.

THE SYMBOLS, ABBREVIATIONS AND NOTES ON THIS SHEET

ARE INTENDED TO BE GENERAL AND COMPREHENSIVE

AND DO NOT ALL APPLY TO THIS PROJECT

# GENERAL NOTES

1. "GENERAL NOTES" APPLY TO ALL DRAWINGS. "SHEET NOTES" APPLY TO ALL OF THE SHEETS ON WHICH THEY OCCUR. "KEYNOTES" APPLY ONLY WHERE CALLED OUT.
2. ALL EQUIPMENT SHOWN IN BOLD IS TO BE PROVIDED BY CONTRACTOR UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL PROVIDE CONDUIT AND WIRE FROM ALL CONTROL DEVICES TO LUMINAIRES FOR CONTROL OF LUMINAIRES SHOWN.
4. LUMINAIRES SHOWN ON DRAWINGS FOR QUANTITY AND CIRCUITING ONLY. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.
5. ALL FEEDERS AND BRANCH CIRCUITS SHALL CONTAIN AN EQUIPMENT GROUND CONDUCTOR SIZED PER NEC TABLE 250.122. ALL WIRING IS BASED ON CU COPPER PER NEC TABLE 310.15(B)(16), USING 75°C AMPACITIES FOR FEEDERS. IF ALUMINUM IS ALLOWED, CONTRACTOR IS RESPONSIBLE TO RE-SIZE ACCORDING TO NEC AMPACITIES FOR LOADS SHOWN ON DRAWINGS.
6. BRANCH CIRCUIT CONDUCTORS, NOT OTHERWISE IDENTIFIED SHALL BE A MINIMUM 12 AWG FOR RUNS 70 FEET OR LESS AND A MINIMUM 10 AWG FOR RUNS GREATER THAN 70 FEET. QUANTITY AND SIZE SHALL BE "AS REQUIRED" TO SERVE AND CONTROL DEVICE(S) OR EQUIPMENT WITH A MAXIMUM VOLTAGE DROP OF THREE PERCENT. WHERE CONTRACTOR CHOOSES TO RUN MORE THAN THREE CURRENT CARRYING CONDUCTORS WITHIN ONE RACEWAY OR CABLE, CONDUCTORS SHALL BE INCREASED IN SIZE TO COMPENSATE FOR THE DERATING REQUIRED PER NEC SECTION 310.15. CONDUCTOR AMPACITIES SHALL BE TAKEN FROM THE 75°C COLUMN.
7. MINIMUM CONDUIT IN EXTERIOR AND UNDERGROUND LOCATIONS TO BE 1". CONDUITS FROM LUMINAIRES TO LOCAL USER CONTROL DEVICES (SWITCHES, OCCUPANCY SENSORS, ETC.) MAY BE 1/2" OR AS INDICATED IN SPECIFICATIONS. PROVIDE ADDITIONAL CONDUCTOR FOR UNSWITCHED "HOT" TO LIGHTING LUMINAIRES WITH EMERGENCY POWER BATTERIES OR GENERATOR TRANSFER DEVICES.
8. WIRING FOR EMERGENCY LIGHTING CIRCUITS OR OTHER EMERGENCY EQUIPMENT SHALL BE KEPT ENTIRELY INDEPENDENT OF ALL OTHER WIRING AND EQUIPMENT AND SHALL MEET ALL REQUIREMENTS OF NEC SECTION 700.10.
9. CONTRACTOR SHALL PROVIDE CONDUIT AND WIRE FOR ALL CIRCUITS SHOWN ON DRAWINGS.
10. WHERE EQUIPMENT PART NUMBERS ARE SHOWN ON THESE PLANS THEY SHALL SUPERCEDE THE REQUIREMENTS OF THE SPECIFICATIONS.
11. ALL CONDUITS SHALL BE CONCEALED UNLESS OTHERWISE NOTED.. A FULLY FUNCTIONALLY STAND ALONE FIRE ALARM SYSTEM
12. A FULLY FUNCTIONALLY STAND ALONE FIRE ALARM SYSTEM SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR PER SPECIFICATION 28-31-00. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MEET ALL CODE REQUIREMENTS PER NFPA 72 AND THE INTERNATIONAL FIRE CODE AS ADOPTED BY THE STATE OF IDAHO.
13. APPROVAL OF THE SUBMITTED DOCUMENTATION AND DRAWINGS BY AN ELECTRICAL PLAN REVIEW DOES NOT ALLEVIATE THE CONTRACTOR OR INDIVIDUALS FROM ADHERENCE TO THE NATIONAL ELECTRICAL CODE AND LOCAL JURISDICTION REQUIREMENTS AS THEY ARE ADOPTED. FINAL APPROVAL WILL BE BASED UPON ON-SITE ELECTRICAL INSPECTIONS
14. ANY CONDUIT OR DIRECT BURIAL WIRING METHODS RAN IN OR UNDER THE FOOTINGS, SLABS OR FINISHED GRADE MUST BE INSPECTED AND APPROVED PRIOR TO COVER.

RECORD DRAWING:

THE SUPPLEMENTAL ENTRIES AND NOTATIONS ON THIS DRAWING INDICATE CHANGES MADE DURING THE CONSTRUCTION PROCESS AS RECORDED BY THE CONTRACTOR AND TRANSFERED TO THE REPRODUCIBLE DRAWINGS BY THE ENGINEER. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR RELIABILITY OF CONTRACTOR PROVIDED INFORMATION.


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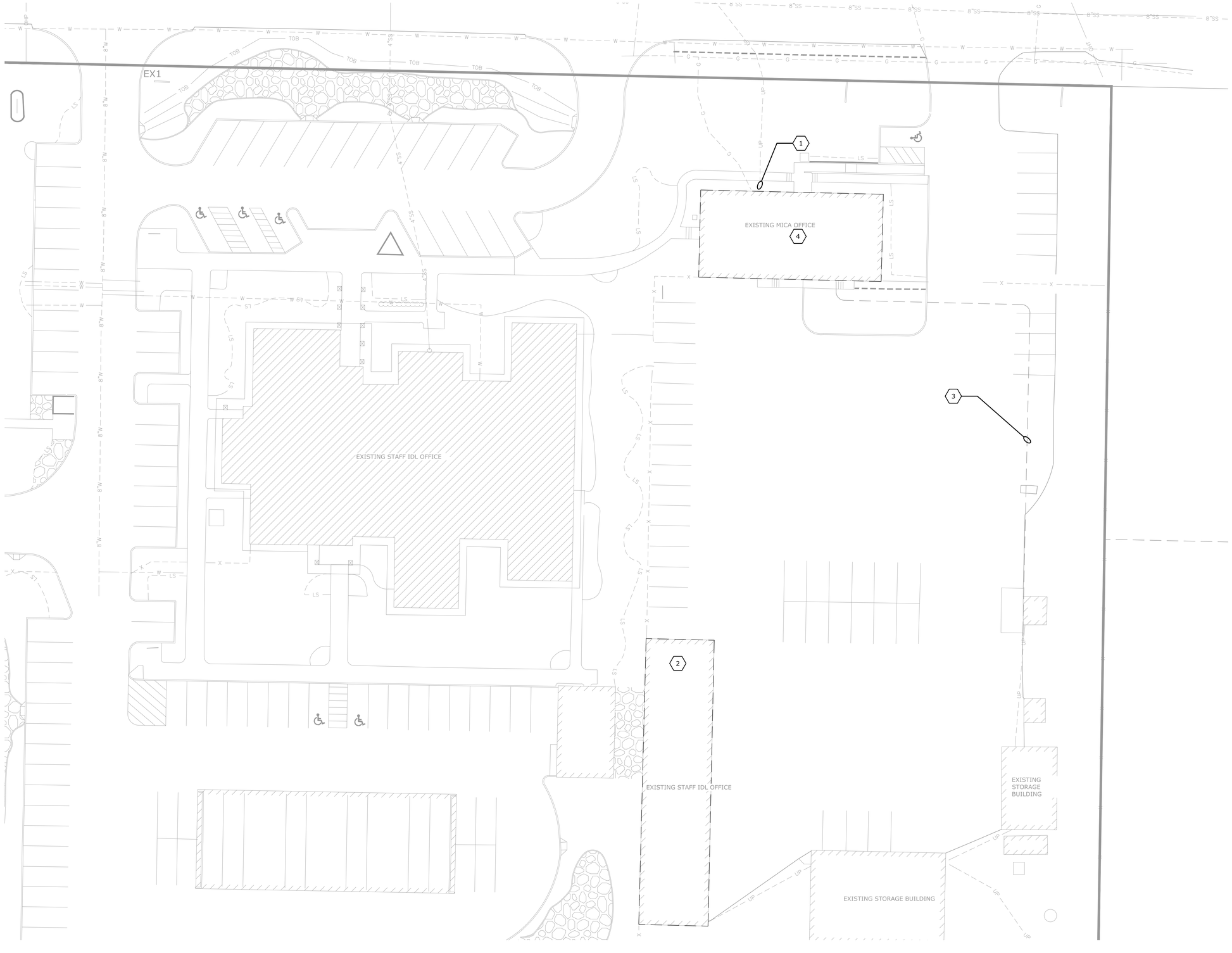
IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500
DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE
3284 INDUSTRIAL LOOP, COEUR D'ALENE, IDAHO, 83814

GENERAL NOTES, ABBREVIATIONS AND LEGENDS

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | AW / MWM |
| DRAWN BY | MWM |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | WJB |
| REVISION | RECORD SET |
| SHEET NO. | |

E0.01




## SHEET NOTES

1. DEVICES SHOWN AS HATCHED SHALL BE DEMOLISHED.
2. EXISTING POWER AND DATA OUTLETS TO REMAIN UNLESS NOTED OTHERWISE.
3. MAINTAIN CONTINUITY OF ELECTRICAL SYSTEMS REMAINING IN OPERATION MAINTAINING CONTINUITY SHALL CONSIST OF REROUTING, INTERCEPTING & EXTENDING CONDUITS AND WIRES AS REQUIRED TO FIXTURES OR DEVICES TO REMAIN.
4. REPAIR, PATCH, AND PAINT ALL DEMO AREAS PER ARCHTIECTURAL SPECIFICATIONS

## KEY NOTES

1. CONTRACTOR TO REMOVE SECONDARY FEEDERS FROM MAIN DISTRIBUTION PANEL OF EXISTING MICA BACK TO SERVICING UTILITY TRANSFORMER. COORDINATE WITH AVISTA FOR REMOVAL OF SERVICE TO EXISTING STRUCTURE. ABANDON EXISTING PATHWAY IN PLACE. STUB, CAP AND LABEL 'SPARE UTILITY PATHWAY'.
2. REMOVE LUMINAIRE LOCATED IN SECTION OF PARKING STRUCTURE THAT IS BEING DEMOLISHED. REMOVE CONDUCTORS BACK TO NEAREST JUNCTION BOX AND SAFE OFF PER SPECIFICATIONS.
3. INTERCEPT AND MARK EXISTING TELECOMMUNICATIONS CONDUIT FROM MICA BUILDING TO STORAGE BUILDING FOR FUTURE RECONNECTION FROM THE OFFICE EXPANSION. REFERENCE E1.00 AND POWER PLANS FOR NEW WORK. ABANDON UNUSED CONDUIT IN PLACE.
4. EXISTING MICA BUILDING TO BE DEMOLISHED. REFERENCE ARCHITECTURAL PHASING PLAN FOR MORE INFORMATION.

## SITE ELECTRICAL DEMOLITION PLAN

SCALE: 1" = 20'-0"

RECORD DRAWING:

THE SUPPLEMENTAL ENTRIES AND NOTATIONS ON THIS DRAWING INDICATE CHANGES MADE DURING THE CONSTRUCTION PROCESS AS RECORDED BY THE CONTRACTOR AND TRANSFERED TO THE REPRODUCIBLE DRAWINGS BY THE ENGINEER. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR RELIABILITY OF CONTRACTOR PROVIDED INFORMATION.

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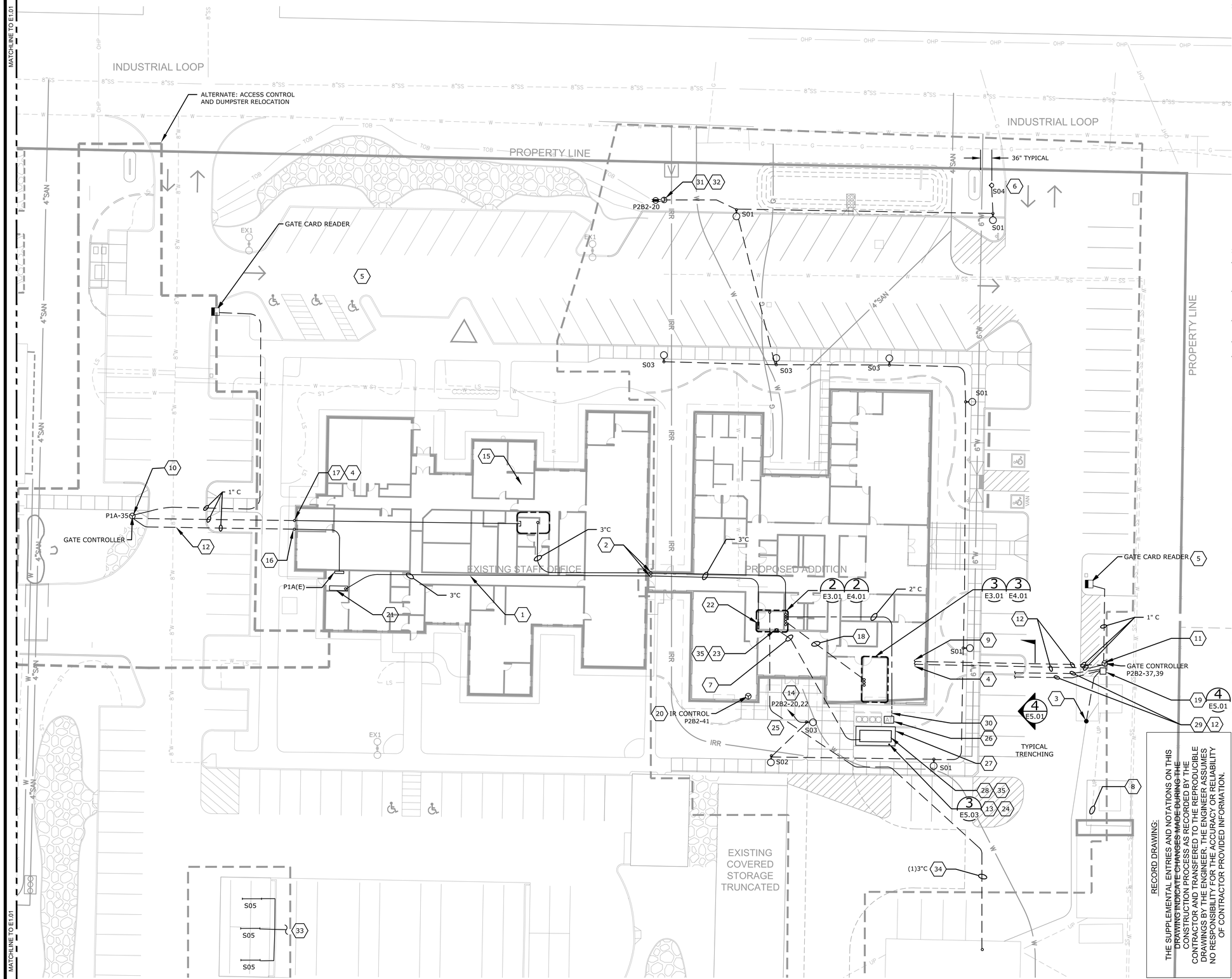
# IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500
## DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE
## 3284 INDUSTRIAL LOOP, COEUR D'ALENE, IDAHO, 83814

SITE ELECTRICAL DEMOLITION PLAN

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | AW / MWM |
| DRAWN BY | MWM |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | WJB |
| REVISION | RECORD SET |

SHEET NO.

ED1.00




## SITE ELECTRICAL PLAN - AREA 1

SCALE: 1" = 20'-0"

## SHEET NOTES

1. REFERENCE CIVIL DRAWING FOR ELEVATION DETAILS.
2. EXISTING UTILITIES SHOWN ARE A BEST EFFORT COMPILATION OF SURFACE LOCATES AND RECORD DRAWING RESEARCH. ACTUAL LOCATION AND/OR EXISTENCE OF UNDERGROUND UTILITIES MAY VARY SIGNIFICANTLY FROM PLAN. ALL UTILITIES SHOWN TO BE LOCATED BY A PRIVATE TONING SERVICE AND/OR POTHOLING PRIOR TO EXCAVATION.
3. REFER TO ARCHITECTURAL, SITE, LANDSCAPE, AND CIVIL DRAWINGS FOR EXACT LOCATIONS AND ELEVATIONS OF ALL LUMINAIRES, TRANSFORMER PADS, AND OTHER SITE ELEMENTS.
4. MAINTAIN ALL EXISTING POWER, LIGHTING, TELECOMMUNICATIONS, AND LOW VOLTAGE SYSTEMS REMAINING IN FULL OPERATIONAL CONDITION. REPAIR DAMAGES AFFECTED BY WORK.
5. OUTSIDE BURIED RACEWAYS SERVING BRANCH CIRCUITING AND ELEC. EQUIPMENT TO BE 1"C., #10AWG UNLESS OTHERWISE NOTED.
6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO WALK THE SITE PRIOR TO BID. FAILURE TO UNDERSTAND EXISTING SITE AND BUILDING CONDITIONS WILL NOT BE ACCEPTED AS REASONING FOR ADDITIONAL POST BID COSTS.
7. ALL PEDESTRIAN AND VEHICLE TRAFFIC AREAS SHALL BE PROPERLY ILLUMINATED DURING EVENING HOURS AS REQUIRED BY OWNER. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY LIGHTING WHERE EXISTING LIGHTING HAS BEEN REMOVED AND PERMANENT LIGHTING IS NOT YET INSTALLED OR WHERE LIGHTING BRANCH CIRCUITS HAVE BEEN INTERRUPTED DUE TO CONSTRUCTION.

## KEY NOTES

1. ROUTE ELECTRICAL FEEDER WITHIN ACCESSIBLE CEILING SPACE OF HALLWAY AS INDICATED. REFER TO ELECTRICAL ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
2. TRANSITION INTO ACCESSIBLE CEILING SPACE OF NEW BUILDING AS INDICATED. COORDINATE ROUTING WITH OTHER DISCIPLINES. REFERENCE POWER/SYSTEMS PLANS FOR MORE INFORMATION.
3. INTERCEPT EXISTING TELECOMMUNICATIONS CONDUIT TO THE STORAGE BUILDING AND EXTEND TO NEW DATA/IT SPACE.
4. PROVIDE 1" CONDUIT BACK TO EXISTING DATA/IT SPACE.
5. INSTALL CARD READER DUAL PEDESTAL CEO MODEL #72-9C-DSP OR APPROVED EQUAL. COORDINATE LOCATION WITH LANDSCAPE.
6. PROVIDE NEW SIGN LIGHT FOR NEW BUILDING SIGN. EXTEND CIRCUIT AND CONTROLS TO NEW LOCATION.
7. POWER AND CONTROLS TO ATS. POWER TO GENERATOR/BLOCK HEATER. REFERENCE ONE-LINE DIAGRAM FOR FEEDER SIZES AND POWER PLANS FOR MORE INFORMATION.
8. EXISTING POWER UNDERGROUND.
9. EXTEND PATHWAY TO ELECTRICAL ROOM. REFERENCE 2/E3.01.
10. MOTORIZED AUTOMATIC CANTILEVER GATE.
11. MOTORIZED AUTOMATIC SLIDE VEHICULAR GATE.
12. ASPHALT SAWCUTS SHALL BE PERPENDICULAR THROUGH EXISTING ASPHALT DRIVE AISLES TO AVOID DIAGONAL PATCHING CONDITIONS. CONFIRM SAWCUT/ROUTING WITH CIVIL AND LANDSCAPE PLANS.
13. REFERENCE E6.01 FOR DISTRIBUTION. REFERENCE GROUNDING DETAIL ON SHEET E5.01.
14. EXTERIOR LIGHTING CONTROLLED BY WAY OF PHOTOCELL LOCATED ON ROOF THROUGH CONTACTOR LOCATED IN ELECTRICAL ROOM.
15. APPROXIMATE LOCATION OF EXISTING BUILDING IT ROOM. CONTRACTOR SHALL FIELD VERIFY PRIOR TO COMMENCING WORK.
16. ROUTE CONDUIT UNDERGROUND TO EXISTING BUILDING ENVELOPE AND PENETRATE THROUGH BUILDING. COORDINATE EXACT PENETRATION LOCATION WITH ARCHITECT AND OWNER PRIOR TO WORK. EXTEND PATHWAY ABOVE CEILING STRUCTURE WITHIN BUILDING TO POWER SOURCE. SURFACE MOUNTED PATHWAY(S) TO SHALL BE PAINTED TO MATCH EXISTING CONDITIONS.
17. ROUTE CONDUIT UNDERGROUND TO EXISTING BUILDING ENVELOPE AND PENETRATE THROUGH BUILDING. COORDINATE EXACT PENETRATION LOCATION WITH ARCHITECT AND OWNER PRIOR TO WORK. EXTEND PATHWAY ABOVE CEILING STRUCTURE WITHIN BUILDING TO DATA/IT SPACE. SURFACE MOUNTED PATHWAY(S) TO SHALL BE PAINTED TO MATCH EXISTING CONDITIONS.
18. PROVIDE (3)3"C FROM DATA/IT SPACE TO SERVER ROOM. REFERENCE SYSTEMS PLANS FOR MORE INFORMATION.
19. PROVIDE NOMINAL 24 X 24 X 22 DEEP HANDHOLE.
20. IRRIGATION CONTROLLER. PROVIDE (1)1"C FOR DATA BACK TO IT SPACE. REFERENCE E3.01 AND E4.01 FOR MORE INFORMATION. COORDINATE FINAL LOCATION WITH LANDSCAPE AND ARCHITECTURAL PRIOR TO ROUGH-IN.
21. (E) MAIN DISTRIBUTION PANEL
22. NEW DISTRIBUTION PANEL 'P1G'
23. OFOI AUTOMATIC TRANSFER SWITCH 'ATS-Y'
24. GROUND ROD
25. HOMERUN TO CIRCUIT 'P2B2-20,22'. EXTERIOR LIGHTING CONTROLLED BY WAY OF PHOTOCELL LOCATED ON ROOF THROUGH CONTACTOR LOCATED IN ELECTRICAL ROOM.
26. OFOI RADIO TOWER, SEE DETAIL 6/E5.03 FOR CFCI TOWER GROUNDING REQUIREMENTS
27. GENERATOR PAD CFCI
28. GENERATOR OFOI
29. PROVIDE (1) 3" C TO DATA ROOM AND (1) 3" C TO SERVER ROOM.
30. PROVIDE (1)2" UNDERGROUND FROM SERVER ROOM UP THROUGH CONCRETE TOWER BASE. REFERENCE DETAIL 6/E5.03.
31. PROVIDE POWER TO RPBA PREMISE ISOLATION BOX FOR CIVIL. REFERENCE CIVIL FOR MORE DETAILS AND EXACT LOCATION.
32. PROVIDE (1) HOT LEG AND (1) NEUTRAL FOR 120V SIGN LIGHT.
33. EXTEND EXISTING LIGHTING CIRCUIT UNDER EXISTING SHELTER TO NEW LIGHT FIXTURES.
34. PROVIDE PATHWAY FOR FIBER OPTIC FROM ELEC/IT ROOM TO EXISTING BUILDING. SHARE TRENCH WITH WATER LINE. PROVIDE 24" SEPARATION. COORDINATE FINAL ROUTING WITH CIVIL AND LANDSCAPE.
35. PER NEC 110.24A - THE SERVICE EQUIPMENT SHALL BE LEGIBLY MARKED IN THE FIELD WITH MAXIMUM AVAILABLE FAULT CURRENT , AND THE DATE THE FAULT CURRENT CALCULATION WAS PERFORMED AND COMPLY WITH NEC 110.21B.

RECORD DRAWING:
THE SUPPLEMENTAL ENTRIES AND NOTATIONS ON THIS DRAWING(S) AS MODIFYING THE CONSTRUCTION PERFORMED BY THE CONTRACTOR AND TRANSFERRED TO THE REPRODUCIBLE DRAWINGS BY THE ENGINEER, THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR RELIABILITY OF CONTRACTOR PROVIDED INFORMATION.

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## DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE
## 3284 INDUSTRIAL LOOP, COEUR D'ALENE, IDAHO, 83814

SITE ELECTRICAL PLAN - AREA 1

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | AW / MWM |
| DRAWN BY | MWM |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
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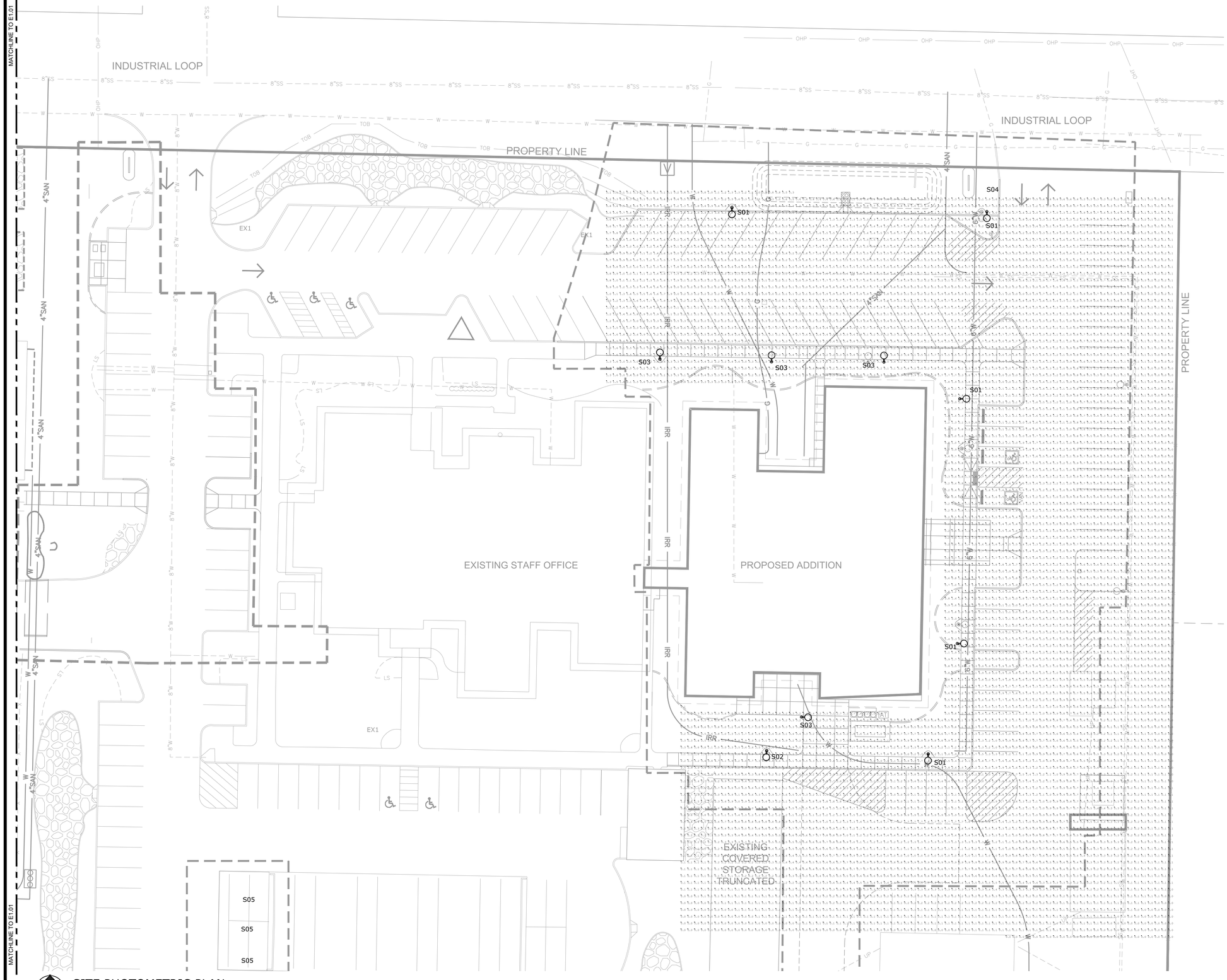
| REVISION | RECORD SET |
| SHEET NO. | E1.00 |




SITE PHOTOMETRIC PLAN

SCALE: 1" = 20'-0"

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## DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE
## 3284 INDUSTRIAL LOOP, COEUR D'ALENE, IDAHO, 83814

SITE PHOTOMETRIC PLAN

RECORD DRAWING:

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| PROJECT NO. | 1658 |
| DESIGNED BY | AW / MWM |
| DRAWN BY | MWM |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | WJB |
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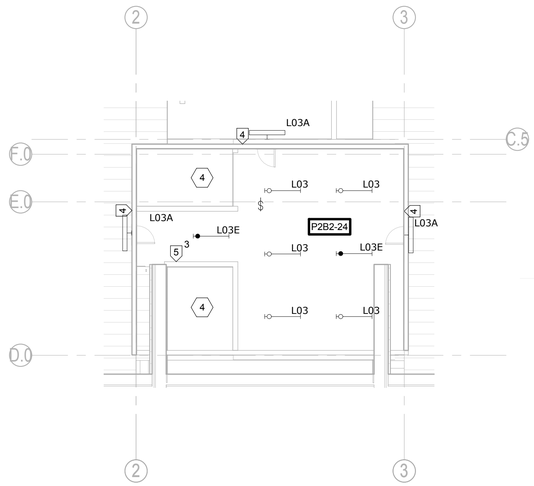


## 1 LIGHTING MECHANICAL MEZZANINE

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

## 1 LIGHTING FLOOR PLAN

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

## SHEET NOTES

1. COORDINATE ALL DEVICE MOUNTING HEIGHTS WITH ARCHITECTURAL ELEVATIONS AND CASEWORK. SEE ARCHITECTURAL PLANS FOR DETAILS.

2. CEILING MOUNTED OCCUPANCY SENSOR QUANTITIES AND LOCATIONS ARE NOT SHOWN ON THESE PLANS. AREAS REQUIRING OCCUPANCY SENSOR(S) ARE NOTED WITH A OS SYMBOL AS SHOWN IN THE LIGHTING CONTROL SCHEDULE BELOW, OR KEYED NOTE. QUANTITIES AND LOCATIONS ARE TO BE AS PER CHOSEN MANUFACTURER'S RECOMMENDATIONS. PROVIDE SHOP DRAWINGS OF OCCUPANCY SENSOR SYSTEM AS PER PROJECT SPECIFICATION AS PART OF THE SUBMITTAL PROCESS PRIOR TO COMMENCEMENT OF LABOR.

3. OCCUPANCY SENSOR OPERATION TO BE MANUAL ON/AUTO OFF EXCEPT FOR CORRIDORS, OPEN OFFICE 134 AND RESTROOMS. THESE SPACES TO BE AUTO ON/AUTO OFF OPERATION.

4. EXTERIOR WALL PACKS TO BE CENTERED ON TRIM UNLESS OTHERWISE NOTED FROM ARCHITECTURAL.

## KEY NOTES

| # | |
|---|---|
| 1 | CONTROLS MEZZANINE LIGHTS. REFERENCE ENLARGED PLAN 1/E2.01 |
| 2 | FIXTURE TYPE TO LIGHT FRONT ENTRANCE SIGN. COORDINATE WITH ARCHITECTURAL DETAILS. |
| 3 | CONTRACTOR TO PROVIDE FLEXIBLE CONDUIT ONLY TO FIXTURE IN THIS AREA. NO RIGID CONDUIT TO BE USED WITHIN THIS AREA OF WORK PER ABOVE CEILING STRUCTURE PER OWNER REQUEST. |
| 4 | CONDUIT NOT TO BE ROUTED THROUGH OPEN SPACE. |
| 5 | COORDINATE FINAL LOCATION OF FIXTURES WITH ARCHITECTURAL RCP AND LOCATION OF FULL HEIGHT PARTITION WALL FOR SYSTEMS FURNTIRE PRIOR TO INSTALLATION. |

## LIGHTING CONTROL SCHEDULE

| | |
|---|---|
| 1 | LINE VOLTAGE WALL OCCUPANCY SENSOR SWITCH. NUMBER OF BUTTONS PER SWITCHING SHOWN |
| 2 | LOW VOLTAGE SWITCH. NUMBER OF BUTTONS PER SWITCHING ZONES SHOWN. AUTO-OFF VIA OCCUPANCY SENSOR. PROVIDE POWER PACK(S) IN ACCESSIBLE CEILING SPACE AS REQUIRED<br># = 3 OR 4 FOR 3-2AY/4-WAY CONDITIONS<br>a = SWITCHING ZONE |
| 3 | SINGLE ZONE LOW VOLTAGE SWITCH. AUTO-OFF VIA OCCUPANCY SENSOR.<br># = 3 OR 4 FOR 3-2AY/4-WAY CONDITIONS |
| 4 | LINE VOLTAGE TOGGLE SWITCH. |
| 5 | LINE VOLTAGE TOGGLE SWITCH WITH LIGHTED LIGHT. |
| 6 | SINGLE ZONE LOW VOLTAGE WALL OCCUPANCY SENSOR SWITCH WITH RAISE/LOWER CAPABILITY.<br># = 3 OR 4 FOR 3-2AY/4-WAY CONDITIONS |
| OS | ALL INTERIOR AREAS TO HAVE MANUAL ON/AUTO OFF LIGHTING CONTROL WITH THE USE OF DUAL TECHNOLOGY SENSORS UNLESS OTHERWISE NOTED. EXCEPT WHERE A WALL SWITCH OCCUPANCY SENSOR IS NOTED, SENSORS SHALL BE CEILING MOUNTED. VERIFY LAYOUT WITH VENDOR SHOP DRAWINGS PRIOR TO PLACEMENT |


RECORD DRAWING:
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# IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500

## DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE

## 3284 INDUSTRIAL LOOP, COEUR D'ALENE, IDAHO 83815

LIGHTING FLOOR PLAN

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | AW / MWM |
| DRAWN BY | MWM |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
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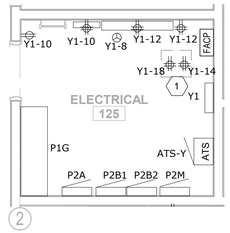
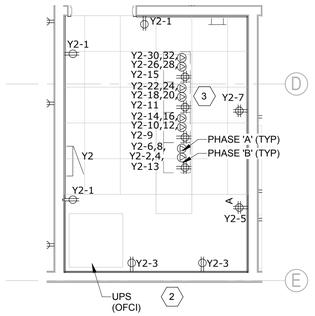


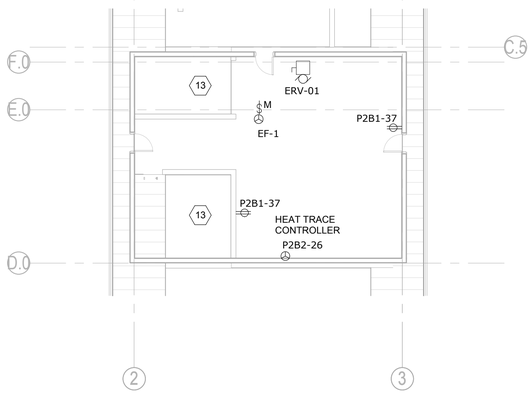

## 2 ENLARGED POWER PLAN - ELECTRICAL ROOM

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



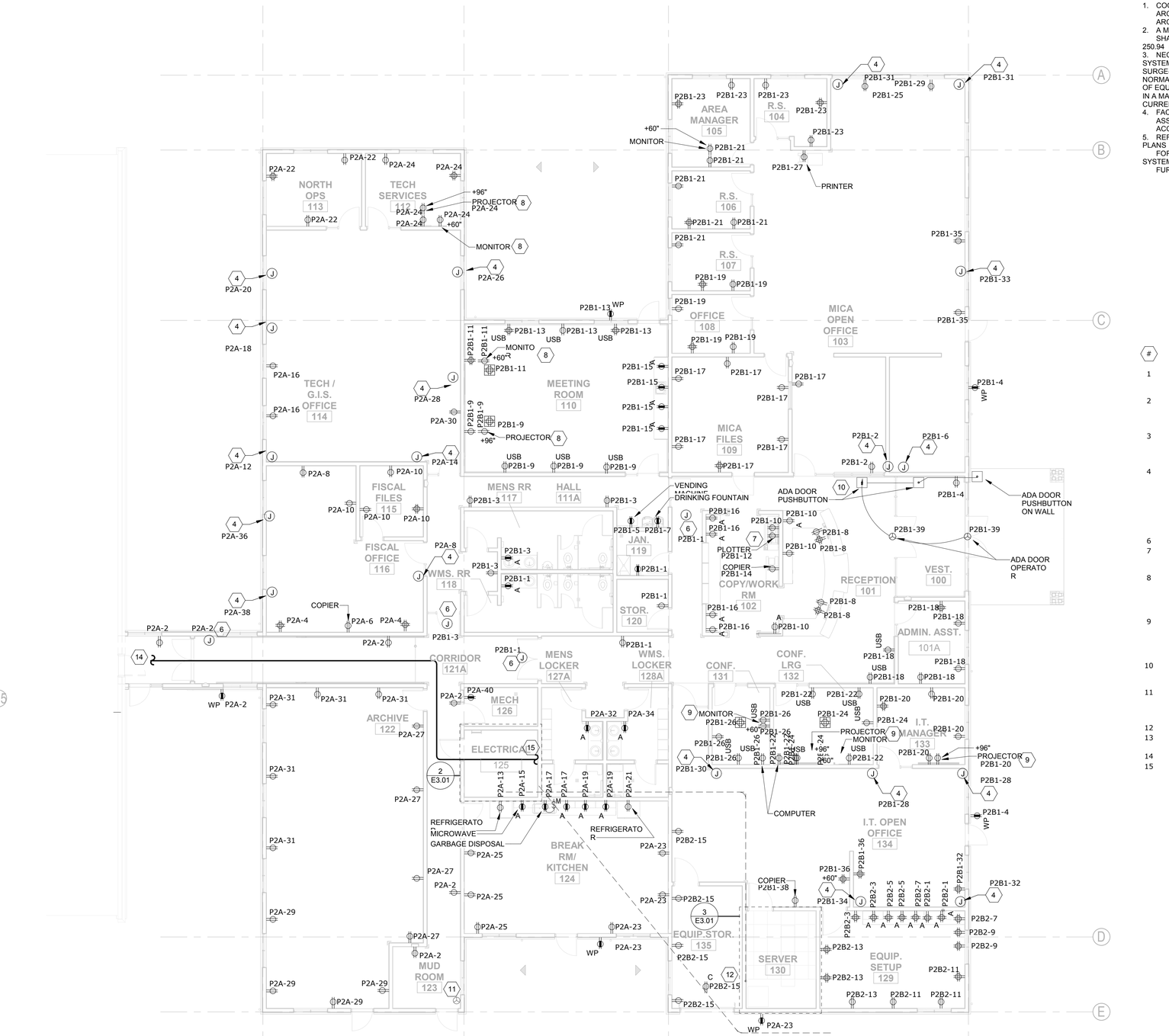

## 3 ENLARGED POWER PLAN - SERVER ROOM

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




## 4 POWER MECHANICAL MEZZANINE

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




## POWER FLOOR PLAN

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

## SHEET NOTES

1. COORDINATE ALL DEVICE MOUNTING HEIGHTS WITH ARCHITECTURAL ELEVATIONS AND CASEWORK. SEE ARCHITECTURAL PLANS FOR DETAILS.
2. A MEANS TO CONNECT AND BOND OTHER SYSTEMS SHALL BE PROVIDED IN ACCORDANCE WITH NEC 250.94 (INTERSYSTEM BONDING TERMINATION)
3. NEC 250.6 – THE GROUNDING OF ELECTRICAL SYSTEMS, CIRCUIT CONDUCTORS, SURGE ARRESTORS, SURGE- PROTECTIVE DEVICES, AND CONDUCTIVE NORMALLY NON-CURRENT CARRYING METAL PARTS OF EQUIPMENT SHALL BE INSTALLED AND ARRANGED IN A MANNER THAT WILL PREVENT OBJECTIONABLE CURRENT.
4. FACTORY PREWIRED OFFICE CUBICLES AND ASSOCIATED ELECTRICAL WIRING SHALL BE IN ACCORDANCE WITH NEC 605.
5. REFERENCE FINAL ARCHITECTURAL FURNITURE PLANS
   FOR COORDINATION PRIOR TO ROUGH IN OF SYSTEMS
   FURNITURE.

## KEY NOTES

| # | |
|---|---|
| 1 | L5-30R RECEPTACLES SHALL BE MOUNTED AT TOP OF RACK. PROVIDE CONDUIT AND CONDUCTORS AS REQUIRED. |
| 2 | UPS FURNISHED BY THE OWNER AND SHALL BE INSTALLED BY THE CONTRACTOR. SEE SHEET E6.01 FOR ADDITIONAL INFORMATION AND REQUIREMENTS. |
| 3 | PROVIDE GROUNDING GRID FOR RAISED FLOOR AND CONNECT TO EACH METAL PEDESTAL. PROVIDE GROUND CONNECTION FROM GRID TO EACH SERVER RACK. |
| 4 | PROVIDE JUNCTION BOX AND CONNECTION TO MODLULAR SYSTEMS FURNITURE WHIP. COORDINATE WITH MANUFACTURER FOR FINAL INSTALLATION DETAILS AND LOCATION. RECEPTACLES ARE PART OF FURNITURE SUPPLIED. COORDINATE FINAL REQUIREMENT WITH SYSTEMS FURNITURE MANUFACTURER PRIOR TO INSTALLATION. |
| 6 | POWER FOR MAGNETIC HOLD OPEN. |
| 7 | PROVIDE CORRECT NEMA CONFIGURATION FOR OFOI EQUIPMENT. COORDINATE WITH OWNER PRIOR TO INSTALLATION. |
| 8 | COORDINATE FINAL ELEVATIONS AND LOCATIONS FOR SHORT THROUGH PROJECTORS AND VIDEO DISPLAYS WITH ARCHITECTURAL. REFERENCE A8.02 FOR MORE DETAILS. |
| 9 | COORDINATE FINAL ELEVATIONS AND LOCATIONS FOR SHORT THROUGH PROJECTORS AND VIDEO DISPLAYS WITH ARCHITECTURAL. REFERENCE A8.04 FOR MORE DETAILS. |
| 10 | MOUNT DEVICE BELOW WINDOW. COORDINATE FINAL ELEVATIONS WITH ARCHITECTURAL DETAILS. |
| 11 | IRRIGATION CONTROLLER. REFERENCE SITE PLAN FOR MORE INFORMATION. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. |
| 12 | POWER FOR OVERHEAD DOOR. |
| 13 | CONDUIT NOT TO BE ROUTED THROUGH OPEN SPACE. |
| 14 | CONTINUE PATHWAY ON SHEET E3.03 |
| 15 | CONTINUE PATHWAY ON SHEET E3.03 |

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# IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500
## DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE
## 3284 INDUSTRIAL LOOP, COEUR D'ALENE, IDAHO 83815

POWER FLOOR PLAN

RECORD DRAWING:

THE SUPPLEMENTAL ENTRIES AND NOTATIONS ON THIS DRAWING INDICATE CHANGES MADE DURING THE CONSTRUCTION PROCESS AS RECORDED BY THE CONTRACTOR AND TRANSFERED TO THE REPRODUCIBLE DRAWINGS BY THE ENGINEER. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR RELIABILITY OF CONTRACTOR PROVIDED INFORMATION.

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | MM |
| DRAWN BY | AW |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | WJB |
| REVISION | 05/05/17 |
| SHEET NO. | |

E3.01

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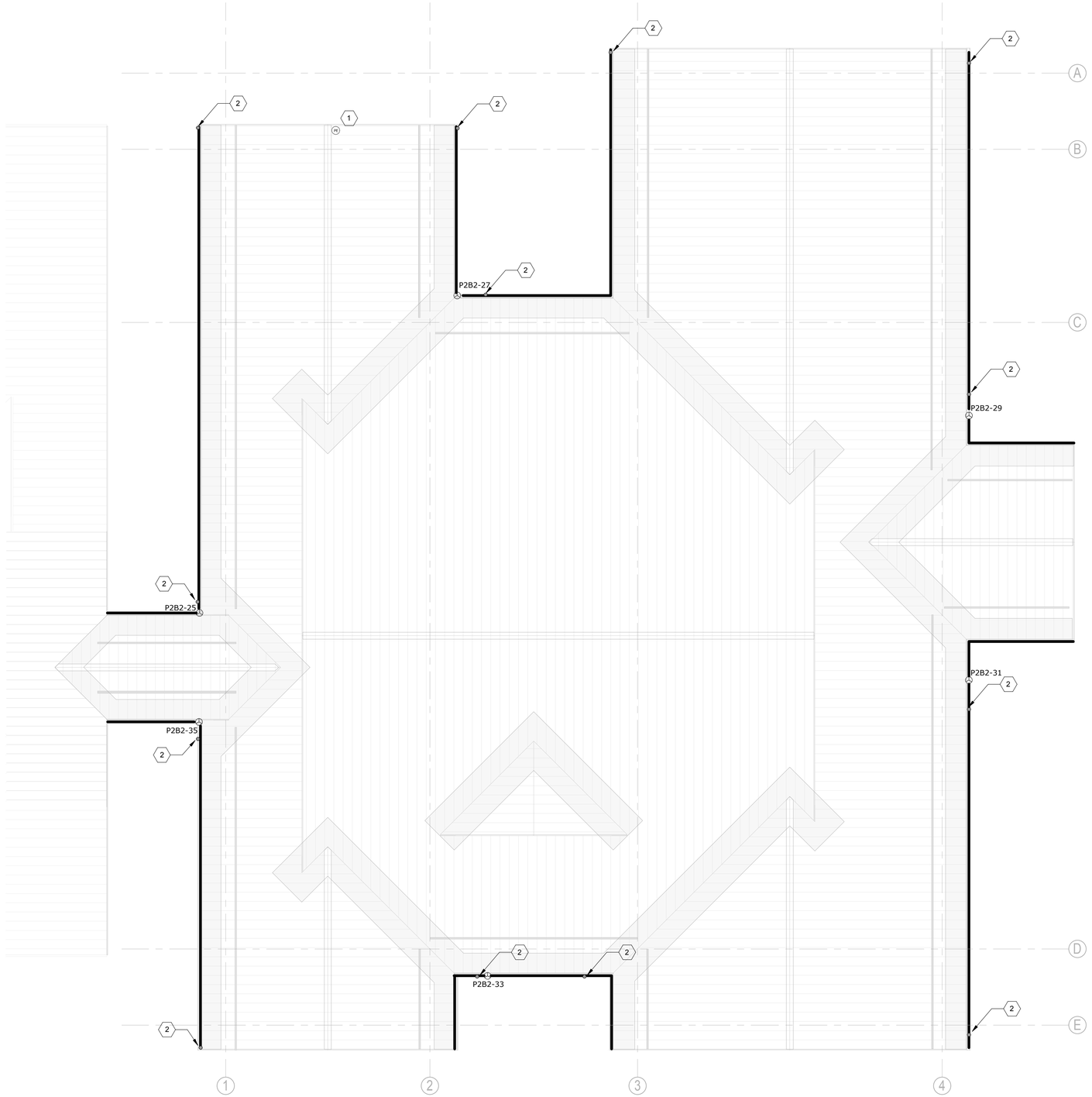


## KEY NOTES

| # | |
|---|---|
| 1 | PHOTOCELL TO BE MOUNTED ON TOP OF GABLE END, FACING TRUE NORTH IN A LOCATION THAT WILL NOT INHERENT ANY SHADOWING OR LIGHT OBSTRUCTIONS ABOVE OR SURROUNDING THE DEVICE. |
| 2 | DOWN SPOUT -ADD HEAT TRACE TO DOWN SPOUT |

## POWER ROOF PLAN

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

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# IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500

## DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE

## 3284 INDUSTRIAL LOOP, COEUR D'ALENE, IDAHO 83815

POWER ROOF PLAN

RECORD DRAWING:
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| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | MM |
| DRAWN BY | Author |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | WJB |
| REVISION | 05/05/17 |
| SHEET NO. | E3.02 |

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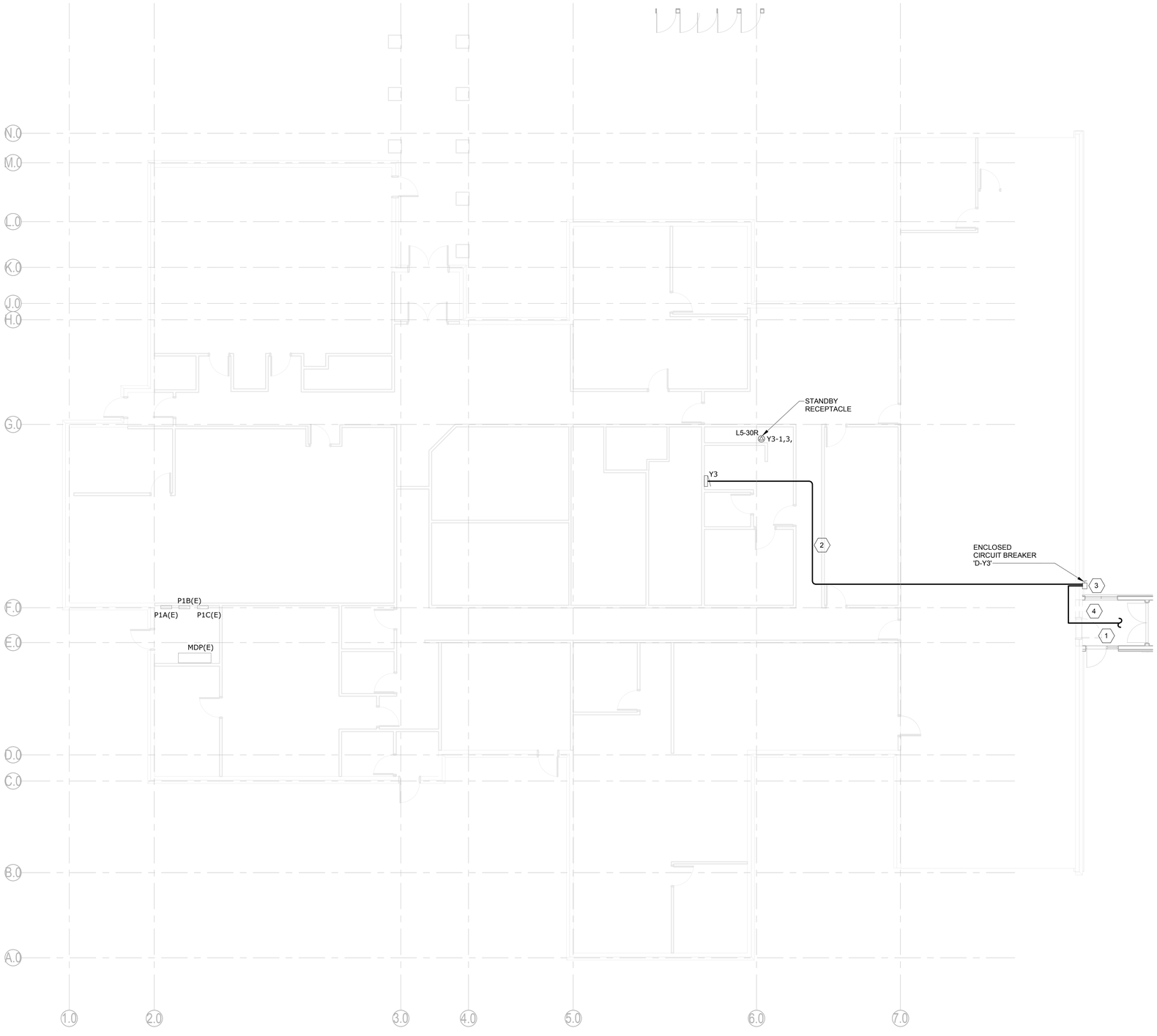


## KEY NOTES

| # | |
|---|---|
| 1 | CONDUIT TO PANEL 'Y1 ROUTED ABOVE CEILING STRUCTURE'. REFER TO SHEETS E3.01 AND E6.01 FOR ADDITIONAL INFORMATION AND REQUIREMENTS. |
| 2 | CONDUIT ROUTED WITHIN EXISTING ACCESSIBLE CEILING SPACE. REMOVE AND REPLACE CEILING TILES AS REQUIRED. |
| 3 | DISCONNECT SHALL BE MOUNTED ABOVE EXISTING BRICK/STONE ON EXISTING BUILDING. |
| 4 | MAINTAIN 2-HOUR FIRE RATING BETWEEN BUILDINGS. |

## POWER FLOOR PLAN - EXISTING BUILDING

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

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# IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500

## DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE

## 3284 INDUSTRIAL LOOP, COEUR D'ALENE, IDAHO 83815

POWER FLOOR PLAN - EXISTING BUILIDING

RECORD DRAWING:
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| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | MM |
| DRAWN BY | Author |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | WJB |
| REVISION | 12/05/17 |
| SHEET NO. | |

E3.03

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## SHEET NOTES

1. SEE ELECTRICAL MECHANICAL SCHEDULE ON SHEET E8.01 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
2. COORDINATE ALL DEVICE MOUNTING HEIGHTS WITH ARCHITECTURAL ELEVATIONS AND CASEWORK. SEE ARCHITECTURAL PLANS FOR DETAILS.

MECHANICAL POWER FLOOR PLAN
SCALE: 1/8" = 1'-0"


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# IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500

## DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE

## 3284 INDUSTRIAL LOOP, COEUR D'ALENE, IDAHO 83815

MECHANICAL POWER FLOOR PLAN

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|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | MM |
| DRAWN BY | AW |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | WJB |
| REVISION | 05/05/17 |
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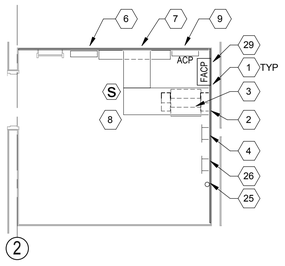
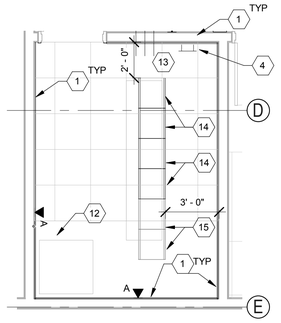


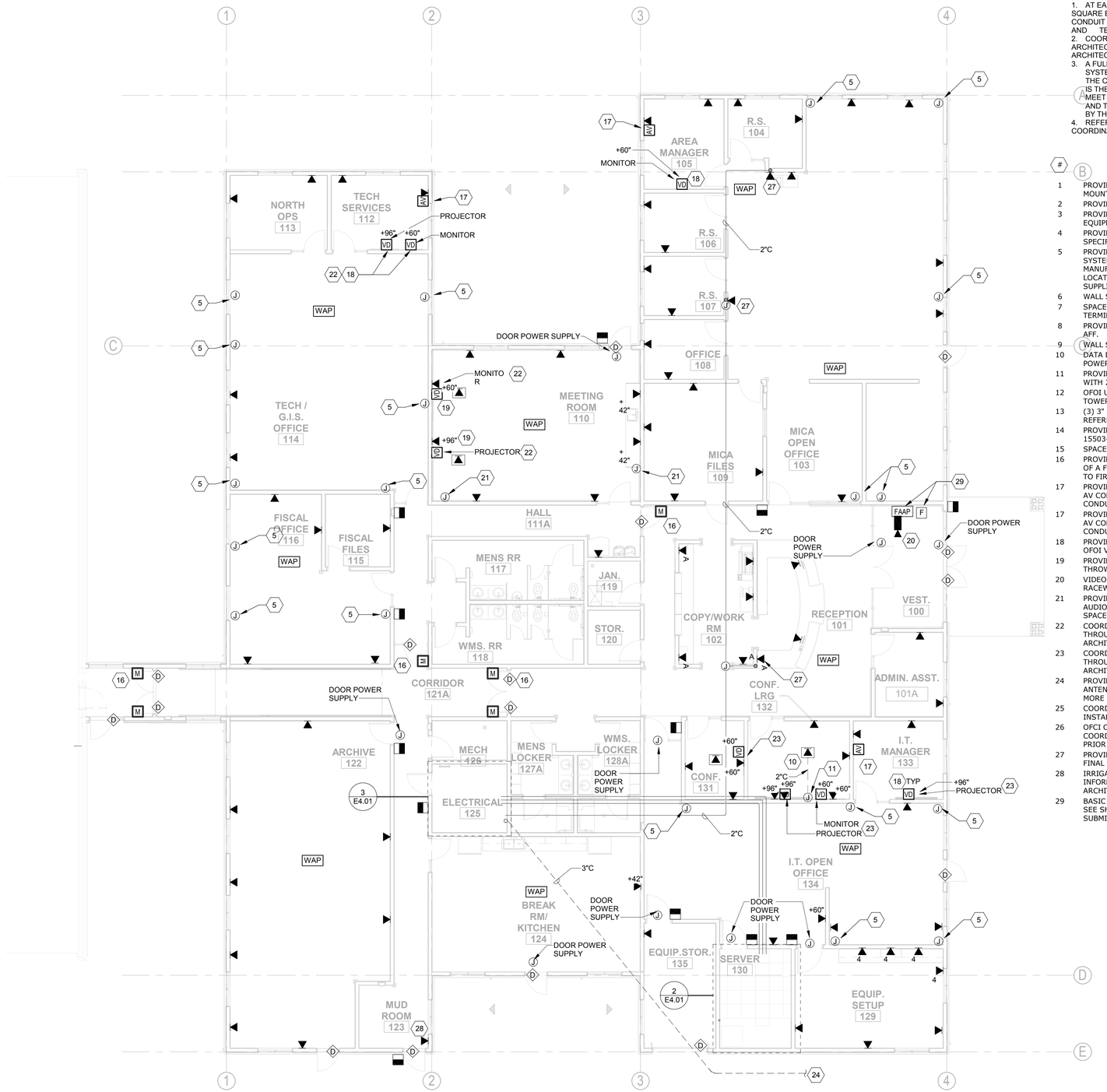

## 2 ENLARGED SYSTEMS PLAN - ELECTRICAL ROOM

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




## 3 ENLARGED SYSTEMS PLAN - SERVER ROOM

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




## SYSTEMS FLOOR PLAN

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

## SHEET NOTES

1. AT EACH SPECIAL SYSTEMS DEVICE LOCATION, PROVIDE 4" SQUARE BACKBOX WITH SINGLE GANG MUDRING AND 1" CONDUIT INTO ACCESSIBLE CEILING SPACE. DEVICE, CABLING, AND TERMINATIONS BY OTHERS.
2. COORDINATE ALL DEVICE MOUNTING HEIGHTS WITH ARCHITECTURAL ELEVATIONS AND CASEWORK. SEE ARCHITECTURAL PLANS FOR DETAILS.
3. A FULLY FUNCTIONALLY STAND ALONE FIRE ALARM SYSTEM SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR PER SPECIFICATION 28-31-00. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MEET ALL CODE REQUIREMENTS PER NFPA 72 AND THE INTERNATIONAL FIRE CODE AS ADOPTED BY THE STATE OF IDAHO.
4. REFERENCE FINAL ARCHITECTURAL FURNITURE PLANS FOR COORDINATION PRIOR TO ROUGH IN OF SYSTEMS FURNITURE.

## KEY NOTES

| # | |
|---|---|
| 1 | PROVIDE 3/4" FIRE RATED PLYWOOD PAINTED WHITE 8' TALL MOUNTED VERTICALLY 12" AFF. |
| 2 | PROVIDE 6" CABLE MANAGER |
| 3 | PROVIDE CHATS UNIVERSAL 84" TALL 2-POST 19" UNIVERSAL EQUIPMENT RACK |
| 4 | PROVIDE TELECOM MAIN GROUND BUS BAR. REFERENCE SPECIFICATION SECTION 271100 FOR MORE INFORMATION. |
| 5 | PROVIDE JUNCTION BOX AND CONNECTION TO MODLULAR SYSTEMS FURNITURE WHIP. COORDINATE WITH MANUFACTURER FOR FINAL INSTALLATION DETAILS AND LOCATION. DATA LOCATIONS ARE A PART OF FURNITURE SUPPLIED. |
| 6 | WALL SPACE RESERVED FOR SECURITY PANELS |
| 7 | SPACE RESERVED FOR SERVICE ENTRANCE TELEPHONE TERMINAL BOARD. PROVIDE 4'W X 8'T SPACE. |
| 8 | PROVIDE 12"W x 4"W LADDER CABLE TRAY MOUNTED AT 8'-0" AFF. |
| 9 | WALL SPACE RESERVED FOR ACCESS CONTROL PANELS |
| 10 | DATA DEVICE MOUNTED WITHIN FLOOR BOX AS SHOWN ON POWER PLAN SHEET E3.01. |
| 11 | PROVIDE 4-11/16" X 4-11/16" EXTRA DEEP JUNCTION BOX WITH 2"C AND 1-1/4"C TO ACCESSIBLE CEILING SPACE ABOVE. |
| 12 | OFOI UPS - SCHNEIDER ELECTRIC - MODEL: SYA16K16PXR TOWER UNIT, NOMINAL 60"H x 20"W x 30"D |
| 13 | (3) 3" CONDUITS ABOVE CEILING FROM ELEC/DATA ROOM 125. REFERENCE SYSTEMS PLAN FOR ROUTING. |
| 14 | PROVIDE SERVER RACK. CHATSWORTH QUADRARACK 15503-X03 |
| 15 | SPACE ALLOCATED FOR (2) FUTURE RACKS. |
| 16 | PROVIDE AUTOMATIC RELEASE FUNCTIONALITY IN THE EVENT OF A FIRE ALARM. PROVIDE HARDWARE AND 1" CONDUIT BACK TO FIRE ALARM CONTROL PANEL. |
| 17 | PROVIDE 4" X 4" X 4" AV BACK BOX ADJACENT TO POWER FOR AV COMPONENTS AS SPECIFIFIED BY OWNER. PROVIDE 2" CONDUIT BETWEEN AV BACK BOX AND VD BACK BOX(ES). |
| 17 | PROVIDE 4" X 4" X 4" AV BACK BOX ADJACENT TO POWER FOR AV COMPONENTS AS SPECIFIFIED BY OWNER. PROVIDE 2" CONDUIT BETWEEN AV BACK BOX AND VD BACK BOX. |
| 18 | PROVIDE 4" X 4" X 4" VD BACK BOX ADJACENT TO POWER FOR OFOI VIDEO DISPLAY OR SHORT THROW PROJECTOR AS NOTED. |
| 19 | PROVIDE 2" CONDUIT BETWEEN VIDEO DISPLAY OR SHORT THROW PROJECTOR BACKBOX AND FLOORBOX. |
| 20 | VIDEO SURVEILLANCE SYSTEM OFOI. PROVIDE BACKBOX AND RACEWAY BACK TO DATA/IT SPACE IN ELECTRICAL 125 |
| 21 | PROVIDE 4" BACKBOX, MUDRING, AND PLATE FOR FUTURE AUDIO SYSTEMS CONTROL. PROVIDE 2" CONDUIT TO CEILING SPACE. |
| 22 | COORDINATE FINAL ELEVATIONS AND LOCATIONS FOR SHORT THROUGH PROJECTORS AND VIDEO DISPLAYS WITH ARCHITECTURAL. REFERENCE A8.02 FOR MORE DETAILS. |
| 23 | COORDINATE FINAL ELEVATIONS AND LOCATIONS FOR SHORT THROUGH PROJECTORS AND VIDEO DISPLAYS WITH ARCHITECTURAL. REFERENCE A8.04 FOR MORE DETAILS. |
| 24 | PROVIDE 3"C UNDERGROUND FROM IT/ELEC SPACE 125 TO ANTENNA BASE. REFERENCE 3/E4.01 AND 4/E5.03 FOR FOR MORE DETAILS. |
| 25 | COORDINATE FINAL STUB UP LOCATION WITH OWNER PRIOR TO INSTALLATION ANTENNA GROUNDING. |
| 26 | OFCI COPPER GROUND BUS BAR FOR ANTENNA/RADIO S YSTEM. COORDINATE FINAL ELEVATION AND LOCATIN WITH OWNER PRIOR TO INSTALLATION. |
| 27 | PROVIDE DATA DROP FOR ANTENNA EQUIPMENT. COORDINATE FINAL ELEVATION WITH OWNER PRIOR TO ROUGH-IN. |
| 28 | IRRIGATION CONTROLLER. REFERENCE SITE PLAN FOR MORE INFORMATION. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. |
| 29 | BASIC FIRE ALARM COMPONENTS ARE SHOWN FOR REFERENCE. SEE SHEET NOTE 3 AND SPECIFICATION SECTION 283100 FOR SUBMITTAL REQUIREMENTS. |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# IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500

## DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE

3284 INDUSTRIAL LOOP, COEUR D'ALENE, IDAHO 83815

SYSTEMS FLOOR PLAN

RECORD DRAWING:

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| PROJECT NO. | 1658 |
| DESIGNED BY | MM |
| DRAWN BY | AW |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
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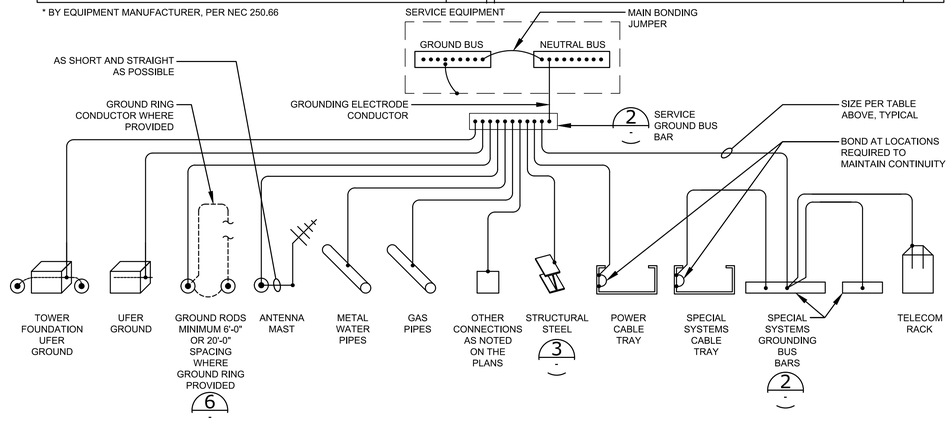
## DETAIL NOTES

1. MAKE CONNECTION TO ALL AVAILABLE ELECTRODES. NOT ALL MAY BE PRESENT.
2. ALL GROUNDING AND BONDING TO BE IN ACCORDANCE WITH THE CURRENT VERSION OF THE NEC THAT HAS BEEN ACCEPTED FOR USE IN EACH JURISDICTION AND AS AMENDED BY LOCAL AUTHORITY HAVING JURISDICTION.
3. GROUND RODS TO BE INSTALLED OUTSIDE OF BUILDING ROOF'S DRIP LINE.

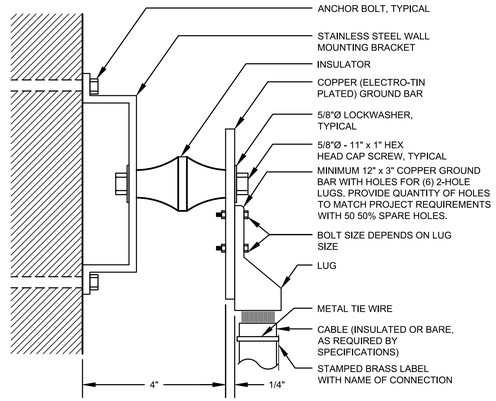
## GROUNDING ELECTRODE AND BONDING CONDUCTOR SIZING SCHEDULE

| ITEM | SIZE | ITEM | SIZE |
|---|---|---|---|
| MAIN BONDING JUMPER | * | METAL WATER PIPES | #3/0 |
| INTERSYSTEM BONDING BUS BAR | #3/0 | GAS PIPES | #6 |
| GROUNDING ELECTRODE CONDUCTOR | #3/0 | OTHER CONNECTIONS AS NOTED ON PLANS | #6 |
| CONCRETE ENCASED REBAR (UFER) | #3/0 | STRUCTURAL STEEL | #3/0 |
| GROUND RODS (IF WITHOUT GROUND RING) | #6 | POWER CABLE TRAY, SPECIAL SYSTEMS CABLE TRAY | #2 |
| GROUND RING (WITH OR WITHOUT GROUND RODS AS NOTED) | #2 | SPECIAL SYSTEMS GROUNDING BUS BARS | #3/0 |
| ANTENNA MAST | #6 | TELECOM RACK ENCLOSURES | #2 |

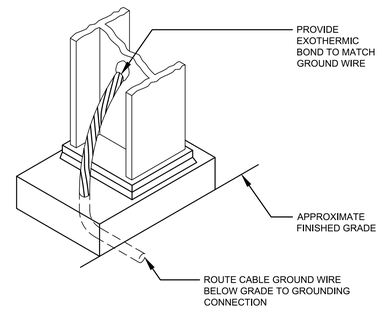
* BY EQUIPMENT MANUFACTURER, PER NEC 250.66



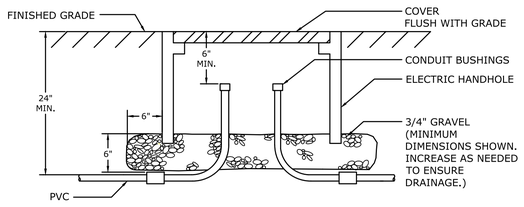

### 1 - GROUNDING ELECTRODE AND BONDING SYSTEM
SCALE: NTS



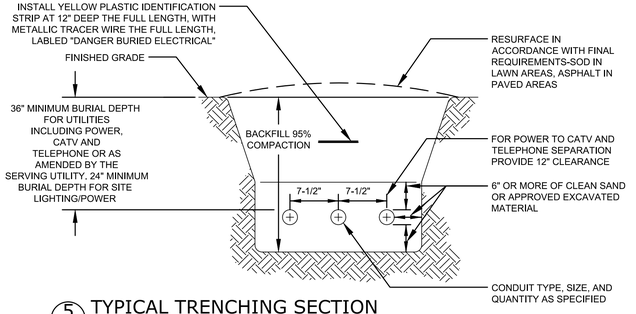

### 2 - TYPICAL GROUND BUS BAR FOR INTERSYSTEM AND SERVICE GROUNDING
SCALE: NTS



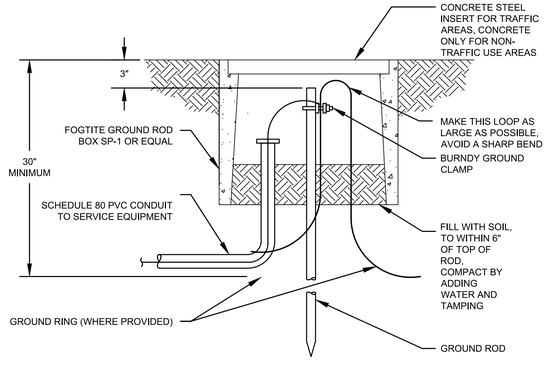

### 3 - CABLE TAIL TO STEEL
SCALE: NTS




### 4 - TYPICAL HANDHOLE DETAIL
SCALE: NTS



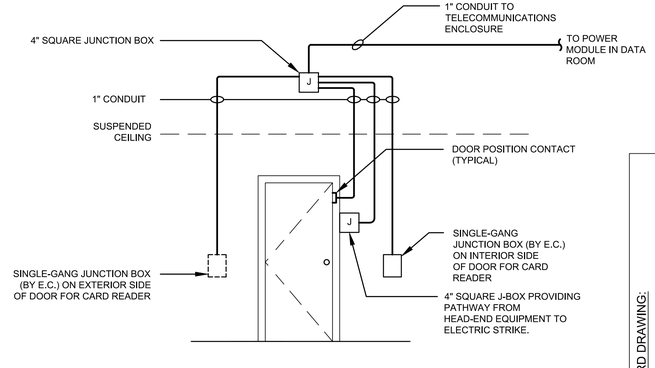

### 5 - TYPICAL TRENCHING SECTION
SCALE: NTS




### 6 - TYPICAL GROUND WELL
SCALE: NTS

## DETAIL NOTES

1. FIELD COORDINATE JUNCTION BOXES WITH ARCHITECTURAL. COORDINATE REQUIREMENTS WITH DIVISION 8 DOOR SPECIFICATIONS.
2. ACCESS CONTROL SYSTEM EQUIPMENT PROVIDED BY OWNER. CONTRACTOR TO PROVIDE RACEWAY ONLY.
3. COORDINATE ALL FINAL ELECTRICAL REQUIREMENTS WITH CHOICE ACCESS CONTROL VENDOR.




### 7 - SECURITY ACCESS DOOR CONTROL
SCALE: NTS

RECORD DRAWING:

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# IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500
## DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE
## 3284 INDUSTRIAL LOOP, COEUR D'ALENE, IDAHO, 83814

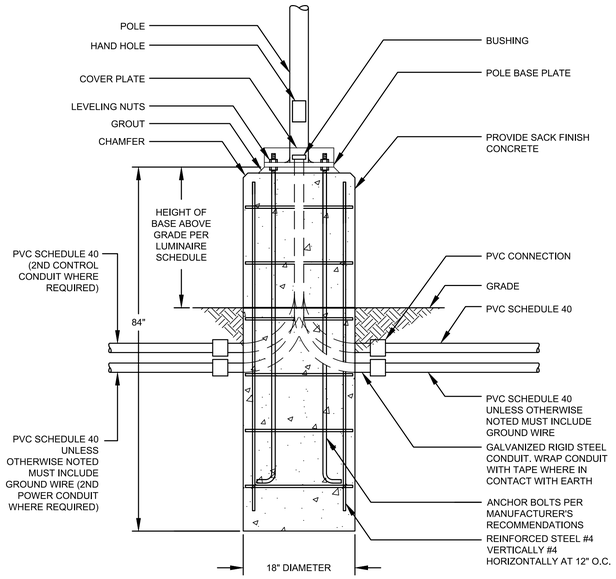
ELECTRICAL DETAILS

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | AW / MWM |
| DRAWN BY | MWM |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | WJB |
| REVISION | RECORD SET |
| SHEET NO. | |

E5.01

## DETAIL NOTES

CONTRACTOR MAY CHOOSE TO PROVIDE ADJACENT HANDHOLE FOR POWER/CONTROL WIRING AND EASE OF CONSTRUCTABILITY. HANDHOLE TO BE APPROPRIATELY RATED FOR SURFACE BEING INSTALLED WITHIN. COORDINATE LOCATION WITH LANDSCAPING AND ALL OTHER ADJACENT ELEMENTS. PROVIDE SACK FINISH CONCRETE FOR BASE FOR SMOOTH FINISH

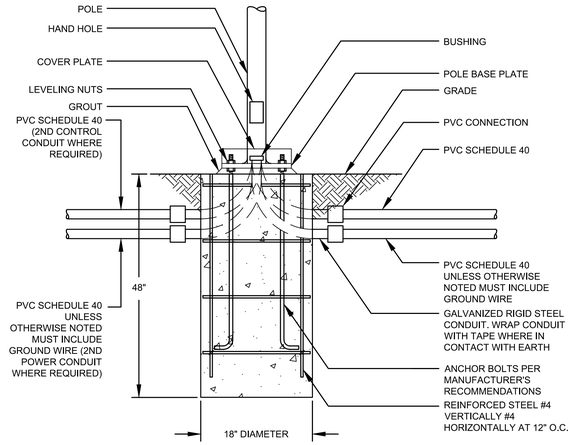



1 - POLE BASE ASSEMBLY - FIXTURE TYPE 'S01'

SCALE: NTS

## DETAIL NOTES

1. CONTRACTOR MAY CHOOSE TO PROVIDE ADJACENT HANDHOLE FOR POWER/CONTROL WIRING AND EASE OF CONSTRUCTABILITY. HANDHOLE TO BE APPROPRIATELY RATED FOR SURFACE BEING INSTALLED WITHIN. COORDINATE LOCATION WITH LANDSCAPING AND ALL OTHER ADJACENT ELEMENTS.

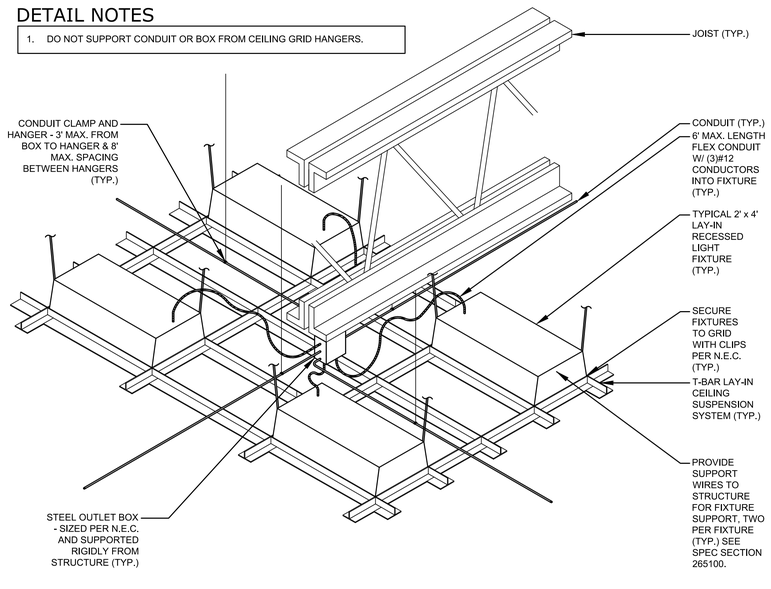



2 - POLE BASE [TYPE] ASSEMBLY- FIXTURE TYPE 'S02,S03'

SCALE: NTS

## DETAIL NOTES

1. DO NOT SUPPORT CONDUIT OR BOX FROM CEILING GRID HANGERS.

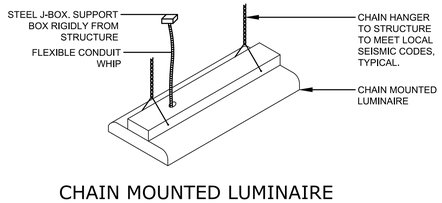



4 - TYPICAL RECESSED LED LIGHTING INSTALLATION

SCALE: NTS

## DETAIL NOTES

1. MODIFY CHAIN LENGTH TO PROVIDE MOUNTING HEIGHT AS REQUIRED ON DRAWINGS. (9'-0" A.F.F. TO BOTTOM OF LUMINAIRE UNLESS OTHERWISE NOTED OR REQUIRED).
2. PROVIDE TWO CHAIN HANGERS FOR EACH LUMINAIRE, ADJUST TO HANG LUMINAIRE LEVEL.

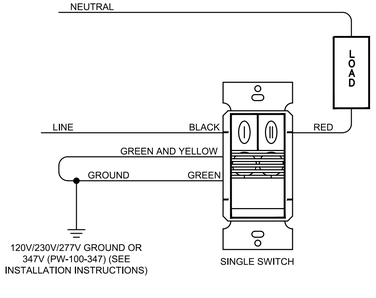



5 - CHAIN MOUNTED LUMINAIRE INSTALLATION

SCALE: NTS

## DETAIL NOTES

1. ALL SENSORS TO BE DUAL TECHNOLOGY TYPE. SENSOR MUST INCLUDE VISIBLE STATUS SIGNAL. REFER TO ALL APPLICABLE ENERGY CODES FOR PRODUCT REQUIREMENTS. SENSOR MUST HAVE BUILT-IN SENSITIVITY CALIBRATION AND ADJUSTMENT.




6 - WALL OCCUPANCY/VACANCY SENSOR

SCALE: NTS

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# IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500

## DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE

3284 INDUSTRIAL LOOP, COEUR D'ALENE, IDAHO, 83814

ELECTRICAL DETAILS

RECORD DRAWING:

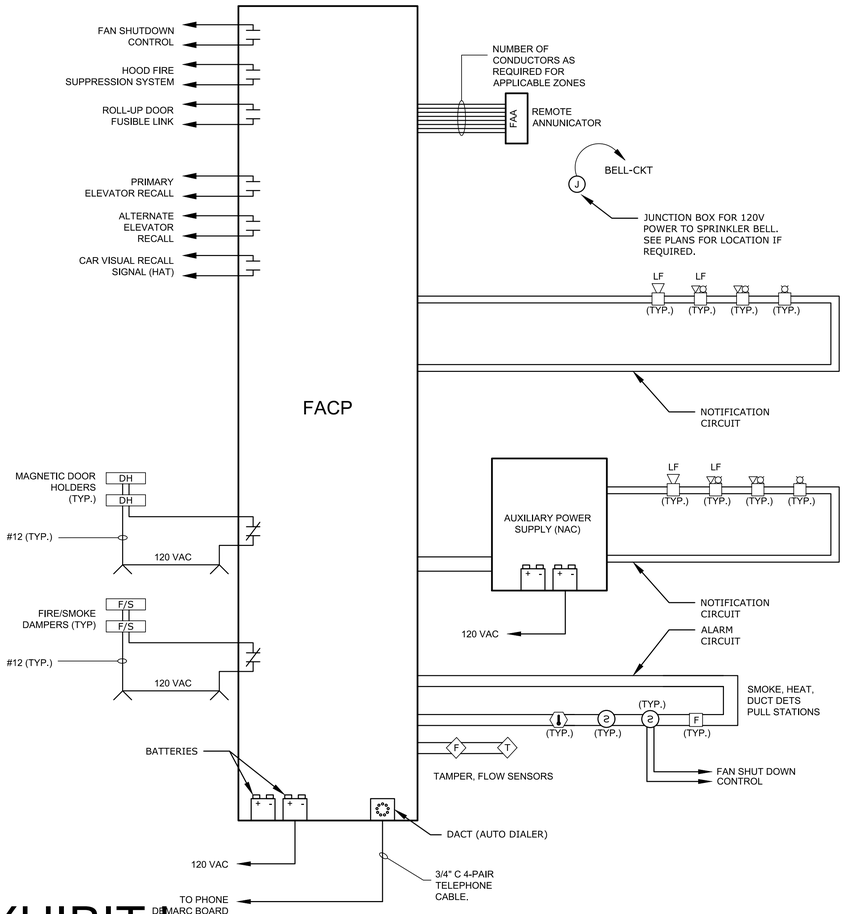
THE SUPPLEMENTAL ENTRIES AND NOTATIONS ON THIS DRAWING INDICATE CHANGES MADE DURING THE CONSTRUCTION PROCESS AS RECORDED BY THE CONTRACTOR AND TRANSFERED TO THE REPRODUCIBLE DRAWINGS BY THE ENGINEER. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR RELIABILITY OF CONTRACTOR PROVIDED INFORMATION.

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | AW / MWM |
| DRAWN BY | MWM |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | WJB |
| REVISION | RECORD SET |
| SHEET NO. | |

E5.02

## DETAIL NOTES

1. FIRE ALARM SYSTEM AS SHOWN IS SCHEMATIC ONLY AND DOES NOT INDICATE ALL DEVICES, EQUIPMENT, WIRING. PROVIDE COMPLETE SYSTEM WITH ALL REQUIRED DEVICES AND EQUIPMENT AND SUBMIT ENGINEERED DRAWINGS TO AHJ FOR REVIEW AND APPROVAL.

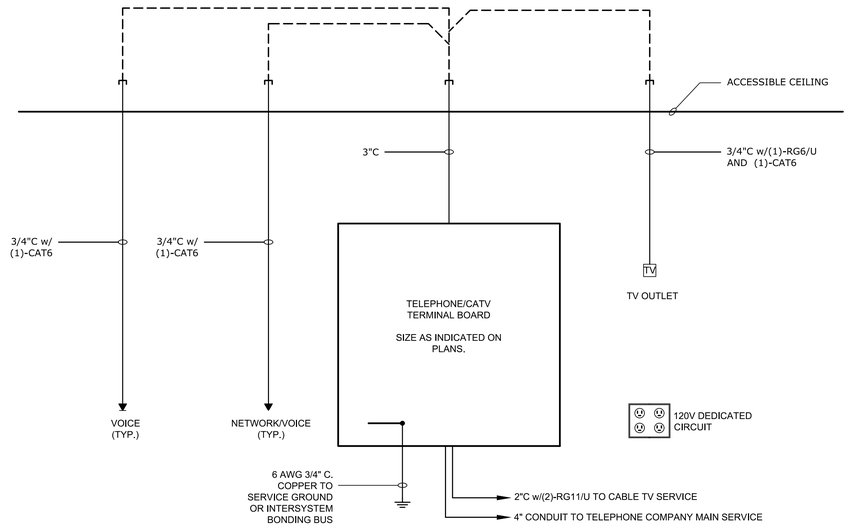



EXHIBIT

1 TYPICAL FIRE ALARM RISER DIAGRAM
SCALE: NTS

## DETAIL NOTES

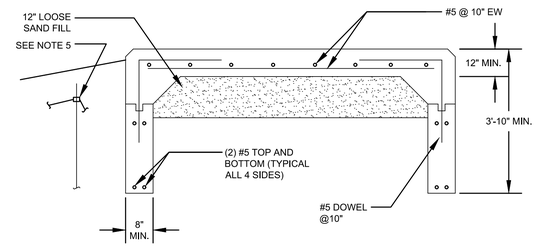
1. COMMUNICATIONS DIAGRAM AS SHOWN IS SCHEMATIC AND DOES NOT INDICATE ALL DEVICES, EQUIPMENT, WIRING. PROVIDE COMPLETE SYSTEM WITH ALL REQUIRED DEVICES AND EQUIPMENT.




2 TYPICAL COMMUNICATIONS RISER DIAGRAM
SCALE: NTS

## DETAIL NOTES

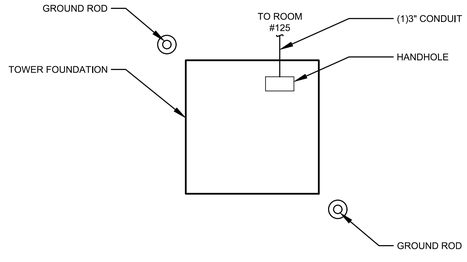
1. THE DESIGN IS BASED ON AN ALLOWABLE SOIL BEARING PRESSURE OF 2500PSF, IF SUITABLE SOILS ARE NOT FOUND AT THE ELEVATIONS SHOWN, EXCAVATE AND REPLACE WITH ENGINEERED FILL AS DIRECTED BY THE ENGINEER.
2. ALL CONCRETE SHALL ACHIEVE 4000 PSI AT 28 DAYS AND SHALL BE AIR ENTRAINED. CHAMFER EXPOSED EDGES 3/4".
3. PROVIDE OPENINGS FOR GENERATOR PRIMARY AND SECONDARY CIRCUITS AS REQUIRED. COORDINATE WITH OFOI GENERATOR EQUIPMENT AS SELECTED BY OWNER.
4. ADJUST PAD DIMENSIONS FOR EQUIPMENT SUPPLIED. PAD SHALL BE MINIMUM 8 INCHES LONGER AND WIDER THAN EQUIPMENT SUPPLIED.
5. FURNISH AND INSTALL (4) 3/4"X10' GROUND RODS IN UNDISTURBED SOIL NEAR PAD CORNERS. INTERCONNECT WITH #4/0 BARE COPPER GROUND CABLE. CONNECT TO GENERATOR GROUND LUG AND TO EXISTING MAIN SWITCHBOARD GROUND BUS WITH #4/0 CABLE.
6. PROVIDE A MINIMUM OF (6) 1/2" DIAMETER THREADED J-HOOKS EXTENDING 10" INTO THE PAD FOR GENERATOR FRAME MOUNTING. VERIFY LOCATIONS AND EXACT INSTALLATION DETAILS WITH GENERATOR MANUFACTURER PRIOR TO COMMENCEMENT OF WORK.
7. GENERATOR FASTENERS SHOULD INCLUDE EARTHQUAKE RESTRAINTS DESIGNED FOR ZONE AND RECOMMENDED BY GENERATOR MANUFACTURER.
8. PROVIDE WORKING CLEARANCE TO MEET MANUFACTURERS CLEARANCE RECOMMENDATIONS AND SITE CONDITIONS
9. MAINTAIN A MINIMUM FINAL WORKING CLEARANCE OF 3'-0" AT EACH END AND AT THE REAR OF THE GENERATOR AND 10'-0" CLEAR FRONTAL ACCESS FOR PREVENTATIVE MAINTENANCE AND REPAIR. VERIFY REQUIREMENTS WITH GENERATOR MANUFACTURER AND SITE CONDITIONS.




3 GENERATOR PAD MOUNTING
SCALE: NTS

## DETAIL NOTES

1. COORDINATE FOUNDATION WITH CIVIL PLANS. COORDINATE WITH MANUFACTURER PROVIDED DRAWINGS TO INCLUDE THE HANDHOLE, CONDUIT, AND GROUNDING. COORDINATE WITH CIVIL PLANS FOR FOUNDATION LOCATION.
2. GROUND RODS PER SPECIFICATIONS. BOND FOUNDATION REBAR AND TOWER TO BOTH GROUND RODS. PROVIDE 6 AWG GND BOND TO NEW OFFICE BUILDING GROUNDING SYSTEM.
3. HANDHOLE TO BE 18" X 18" X 18" MINIMUM CAST IN PLACE CONCRETE WITH REMOVABLE CONCRETE LID LABELED "RADIO".
4. FIELD COORDINATE FINAL LOCATION AND REQUIREMENTS WITH OWNER.




4 TOWER FOUNDATION DETAIL
SCALE: NTS

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# IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500
## DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE
## 3284 INDUSTRIAL LOOP, COEUR D'ALENE, IDAHO, 83814

ELECTRICAL DETAILS

RECORD DRAWING:
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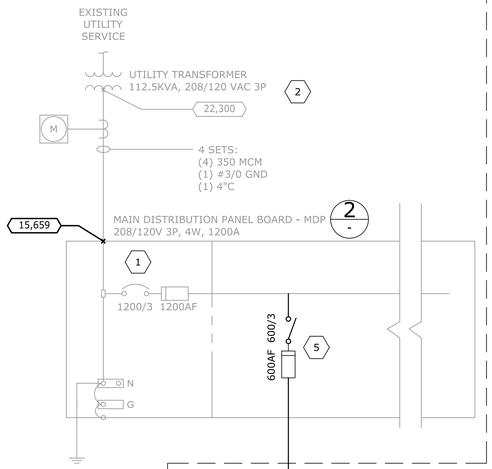
| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | AW / MWM |
| DRAWN BY | MWM |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | WJB |
| REVISION | RECORD SET |
| SHEET NO. | |

E5.03




1 / - PARTIAL ONE-LINE DIAGRAM - IDL OFFICE BUILDING

SCALE : NTS

2 / - EXISTING MAIN DISTRIBUTION PANEL BOARD - MDP

SCALE : NTS

## FEEDER SCHEDULE

| CIRCUIT SIZE AMPS | QTY SETS (NOTE 7) | CONDUIT TRADE SIZE (NOTE 2) NONE (NOTE 6) 3 PH 3 W | N 3 PH 4W | G (NOTE 5) 3 PH or 1 PH 3W EGC | NG 3 PH 4W EGC | NGI 3 PH 4W EGC/IEGC | NNG 3 PH 4W EGC | NNGI 3 PH 4W EGC/IEGC | GS (NOTE 8) 1 PH 2W EGC | (NOTE 1) CONDUCTORS (NOTE 4) PHASE/ NEUTRAL | (NOTE 2) CONDUCTORS (NOTE 4) EGC/ IEGC | AMPACITY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15 | 1 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 12 | 12 | 15 |
| 20 | 1 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 12 | 12 | 20 |
| 25 | 1 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 10 | 10 | 25 |
| 30 | 1 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 10 | 10 | 30 |
| 35 | 1 | * 3/4 | 1 | 3/4 | 1 | 1 | 1 | 1 | 3/4 | 8 | 10 | 35 |
| 40 | 1 | * 3/4 | 1 | 3/4 | 1 | 1 | 1 | 1 | 3/4 | 8 | 10 | 40 |
| 45 | 1 | 1 | 1 | 1 | 1 | 1-1/4 | 1-1/4 | 1-1/4 | 3/4 | 6 | 10 | 55 |
| 50 | 1 | 1 | 1 | 1 | 1 | 1-1/4 | 1-1/4 | 1-1/4 | 3/4 | 6 | 10 | 55 |
| 60 | 1 | * 1 | 1-1/4 | 1 | 1-1/4 | 1-1/4 | 1-1/2 | 1-1/2 | 3/4 | 4 | 10 | 70 |
| 70 | 1 | * 1 | 1-1/4 | 1-1/4 | 1-1/4 | 1-1/4 | 1-1/2 | 1-1/2 | 3/4 | 4 | 8 | 70 |
| 80 | 1 | 1-1/4 | 1-1/4 | 1-1/4 | 1-1/2 | 1-1/2 | 2 | 2 | 1 | 2 | 8 | 85 |
| 90 | 1 | 1-1/4 | 1-1/4 | 1-1/4 | 1-1/2 | 2 | 2 | 2 | 1 | 2 | 8 | 95 |
| 100 | 1 | * 1-1/4 | 1-1/2 | 1-1/2 | 2 | 2 | 2 | 2-1/2 | 1-1/4 | 1 | 8 | 110 |
| 110 | 1 | 1-1/4 | 1-1/4 | 1-1/4 | 1-1/2 | 1-1/2 | 2 | 2-1/2 | 1 | 1 | 6 | 115 |
| 125 | 1 | * 1-1/4 | 1-1/2 | 1-1/2 | 2 | 2 | 2 | 2-1/2 | 1-1/4 | 1/0 | 6 | 130 |
| 150 | 1 | * 1-1/2 | 2 | 1-1/2 | 2 | 2 | 2-1/2 | 2-1/2 | 1-1/4 | 1/0 | 6 | 150 |
| 175 | 1 | 1-1/2 | 2 | 2 | 2 | 2 | 2-1/2 | 2-1/2 | 1-1/4 | 2/0 | 6 | 175 |
| 200 | 1 | 2 | 2 | 2 | 2-1/2 | 2-1/2 | 2-1/2 | 3 | 1-1/4 | 3/0 | 6 | 200 |
| 225 | 1 | * 2 | 2-1/2 | 2 | 2-1/2 | 2-1/2 | 3 | 3 | 1-1/2 | 4/0 | 4 | 230 |
| 250 | 1 | 2-1/2 | 2-1/2 | 2-1/2 | 3 | 3 | 3 | 3-1/2 | 2 | 250 | 4 | 255 |
| 300 | 1 | * 2-1/2 | 3 | 3 | 3 | 3 | 3-1/2 | 4 | 2 | 350 | 4 | 310 |
| 350 | 1 | * 3 | 3-1/2 | 3 | 3-1/2 | 3-1/2 | 4 | 5 | 2-1/2 | 500 | 2 | 380 |
| 400 | 2 | 2 | 2 | 2 | 2-1/2 | 2-1/2 | 2-1/2 | 3 | 1-1/2 | 3/0 | 3 | 400 |
| 450 | 2 | * 2 | 2-1/2 | 2 | 2-1/2 | 2-1/2 | 3 | 3 | 1-1/2 | 4/0 | 2 | 460 |
| 500 | 2 | 2-1/2 | 2-1/2 | 2-1/2 | 3 | 3 | 3 | 3-1/2 | 2 | 250 | 1 | 510 |
| 600 | 2 | * 2-1/2 | 3 | 3 | 3 | 3 | 3-1/2 | 4 | 2 | 350 | 1 | 620 |
| 700 | 2 | * 3 | 3-1/2 | 3 | 3-1/2 | 3-1/2 | 4 | 5 | 2-1/2 | 500 | 1/0 | 760 |
| 800 | 3 | * 2-1/2 | 3 | 2-1/2 | 3 | 3 | 3-1/2 | 3-1/2 | 2 | 300 | 1/0 | 855 |

| CIRCUIT SIZE AMPS | QTY SETS (NOTE 6) | CONDUIT TRADE SIZE (NOTE 2) NONE (NOTE 5) 3 PH 3 W | N 3 PH 4W | G (NOTE 4) 3 PH or 1 PH 3W EGC | NG 3 PH 4W EGC | NGI 3 PH 4W EGC/IEGC | NNG 3 PH 4W EGC | NNGI 3 PH 4W EGC/IEGC | GS (NOTE 7) 1 PH 2W EGC | CONDUCTORS (NOTE 4) PHASE/ NEUTRAL | EGC/ IEGC | AMPACITY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1000 | 4 | 2-1/2 | 2-1/2 | 2-1/2 | 3 | 3 | 4 | 4 | 2 | 250 | 2/0 | 1020 |
| 1200 | 4 | * 2-1/2 | 3 | 3 | 3 | 3-1/2 | 4 | 5 | 2 | 350 | 3/0 | 1240 |
| 1600 | 5 | 2-1/2 | 3 | 3 | 3-1/2 | 3-1/2 | 4 | 4 | 2-1/2 | 400 | 4/0 | 1675 |
| 2000 | 6 | 3 | 3 | 3 | 3-1/2 | 3-1/2 | 4 | 5 | 2-1/2 | 400 | 250 | 2010 |
| 2500 | 8 | * 3 | 3 | 2-1/2 | 3 | 3 | 4 | 4 | 2-1/2 | 400 | 350 | 2680 |
| 3000 | 8 | * 3 | 3-1/2 | 3-1/2 | 3-1/2 | 4 | 4 | 5 | 2-1/2 | 500 | 400 | 3040 |
| 4000 | 12 | 3 | 3 | 3 | 3-1/2 | 4 | 4 | 5 | 2-1/2 | 400 | ** 400 | 4020 |
| 5000 | 12 | * 3 | 3 | 3 | 3-1/2 | 4 | 4 | 5 | * 3 | 600 | ** 600 | 5040 |

NOTE 1 This Table is valid for insulation Types THWN-2 and XHHW-2. The raceway fill calculations have been performed using Type THWN-2 for phase/neutral conductor sizes 4 AWG through 600 kcmil, and Type XHHW-2 for sizes 12 through 6 AWG. Dimensions are from NEC Ch.9, Table 5. The EGC/IEGC insulation is the same as it is for the phase/neutral conductors.

NOTE 2 For motor circuits, use appropriate Motor Connection Schedule, before applying this Wiring Schedule.

NOTE 3 Conduit size is based on Schedule 80 PVC.

NOTE 4 Conductor sizes are limited to 12 AWG through 600 kcmil, and are based on: 60 deg C terminals for circuits rated 100 amps or less, and on 75 deg C terminal and on 75 deg C terminals for all other sizes.

NOTE 5 For three wire Single Phase feeders and branch circuits, use this column.

NOTE 6 For Single Phase services, use this column.

NOTE 7 For parallel sets, it is permissible to use other quantities that comply with the Code.

NOTE 8 For two-wire single phase feeders and branch circuits, use this column.

* Consider increasing the raceway by one trade size to prevent possible jamming [NEC Chapter 9, Table 1, Informational Note No. 2].

** The EGC is not required to be larger in size than the circuit conductors [250.122(A)].

| SUBSCRIPT | CIRCUIT IDENTIFICATION KEY |
|---|---|
| NONE | (3) PHASE CONDUCTORS, (0) EGC OF THE WIRE TYPE. |
| N | (3) PHASE CONDUCTORS, (1) NEUTRAL CONDUCTOR, (0) EGC OF THE WIRE TYPE. |
| NN | (3) PHASE CONDUCTORS, (200% RATED) NEUTRAL CONDUCTOR, (0) EGC OF THE WIRE TYPE. |
| G | (3) PHASE CONDUCTORS, (1) EGC |
| NG | (3) PHASE CONDUCTORS, (1) NEUTRAL CONDUCTOR, (1) EGC |
| NNG | (3) PHASE CONDUCTORS, (200% RATED) NEUTRAL CONDUCTOR, (1) EGC |
| NGI | (3) PHASE CONDUCTORS, (1) NEUTRAL CONDUCTOR, (1) EGC, (1) ISOLATED EGC (IEGC) |
| NNGI | (3) PHASE CONDUCTORS, (200% RATED) NEUTRAL CONDUCTOR, (1) EGC, (1) ISOLATED EGC (IEGC) |
| GS | (2) PHASE CONDUCTORS, (1) EGC |

## SHEET NOTES

1. PARTIAL ONE LINE. SEE RECORD DRAWING SHEET E400 FOR COMPLETE SYSTEM DIAGRAM.

## KEY NOTES

1. PROVIDE PHENOLIC LABEL INDICATING MAIN SERVICE DISCONNECT LOCATIONS.
2. PEAK DEMAND 70 KW PER AVISTA.
3. SERVICE ENTRANCE RATED.
4. RELOCATE EXISTING 200A BREAKER FOR CONDENSOR TO UNUSED SPACE ABOVE.
5. REPLACE EXISTING 200A AND 400A SPARE BUCKETS WITH A 600A MAIN FUSED BREAKER FOR MDP P1G. MATCH EXISTING MANUFACTURER.
6. OFOI UPS, 16KW.
7. PROVIDE (6) 14AWG FOR CONTROL TO ATS. PROVIDE (2) 14AWG TO GENERATOR ANNUNCIATOR. COORDINATE LOCATION OF ANNUNCIATOR WITH POWER PLANS.
8. ATS OFOI. PROVIDE FEEDERS TO WIREWAY IN SPACE WHERE ATS IS SHOWN FROM GENERATOR. PROVIDE 10'-0" COIL LOOP OF ALL CONDUCTORS AT BOTH ENDS.
9. GENERATOR OFOI.
10. PROVIDE (2)120V CIRCUITS FOR BATTERY CHARGER AND BLOCK HEATER.

RECORD DRAWING:

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# IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500

## DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE

## 3284 INDUSTRIAL LOOP, COEUR D'ALENE, IDAHO, 83814

ELECTRICAL ONE-LINE DIAGRAM

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | AW / MWM |
| DRAWN BY | MWM |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | WJB |
| REVISION | RECORD SET |
| SHEET NO. | E6.01 |

## Lighting Fixture Schedule

| Type | Watts | Description | Manufacturer | Model | Mounting | Code | Voltage | Finish | Comments |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |
| L01 | 23W | RECESSED 6" ROUND APERTURE LED DOWNLIGHT, NOMINALLY 5-11/16" RECESS DEPTH. COLD ROLLED STEEL HOUSING. SELF-FLANGED, CLEAR, MATTE DIFFUSE ALZAK LOWER CONE REFLECTOR. INTEGRAL LED DRIVER, DIMMABLE TO 10%. | LITHONIA | LDN6-35-20-L06-AR-LD-120-EZ10 | RECESSED | 3500K INTEGRAL LED, NOMINAL 2000 LUMEN OUTPUT | 120 V | | |
| L01E | 23W | SIMILAR TO TYPE 'L01' EXCEPT WITH EMERGENCY BATTERY PACK. | LITHONIA | LDN6-35-20-L06-AR-LD-120-EZ10 -EL | RECESSED | 3500K INTEGRAL LED, NOMINAL 2000 LUMEN OUTPUT | 120 V | | PROVIDE 90 MIN EMERGENCY BACKUP BATTERY. |
| L02 | 17W | 6" SURFACE MOUNTED SHOWER LIGHT | PROGRESS | P8022-xx30K9-AC1-L10 | SURFACE | 3000K INTEGRAL LED, NOMINAL1000 LUMEN OUTPUT | 120 V | WHITE | |
| L03 | 42W | CHAIN HUNG LED LENSED STRIP FIXTURE NOMINAL 3 1/2"W X 3 1/4"D X 48"L. COMPACT DESIGN COLD-ROLLED STEEL, HIGH REFLECTANCE BAKED WHITE ENAMEL FINISH. MEDIUM DIFUSE SNAP IN LENS. ELECTRONIC DRIVER | EATON | SNLED SERIES | CHAIN HUNG | 3500K LED - NOMINAL 3000 LUMENS PER 4-FOOT - 105 DEGREE BEAM DISTRIBUTION | 120 V | WHITE | |
| L03A | 42W | SIMILAR TO TYPE 'L03E' BUT WALL MOUNTED | EATON | SNLED SERIES | WALL | 3500K LED - NOMINAL 3000 LUMENS PER 4-FOOT - 105 DEGREE BEAM DISTRIBUTION | 120 V | WHITE | PROVIDE 90 MIN EMERGENCY BACKUP BATTERY. |
| L03E | 42W | SIMILAR TO TYPE 'L03' EXCEPT WITH EMERGENCY BATTERY PACK. | EATON | SNLED SERIES | CHAIN HUNG | 3500K LED - NOMINAL 3000 LUMENS PER 4-FOOT - 105 DEGREE BEAM DISTRIBUTION | 120 V | WHITE | PROVIDE 90 MIN EMERGENCY BACKUP BATTERY. |
| L04 | 80W | LINEAR DIR/IND PENDANT LED. NOMINAL 8" WIDE X 1-1/2" HIGH WITH DRIVER HOUSING AT 2.3"H X 8' LONG. EXTRUDED ALUMINIUM & 2-PIECE ALLOW END CAPS. INTEGRAL ELECTRONIC DIMMABLE DRIVER. DISTRIBUTION 35% UP - 65% DOWN. | CORELITE | J3-U-L-3-L35-1-D-120-AC-48-STD -W | PENDANT | 3500K LED - NOMINAL 4900 LUMENS PER 4-FOOT | 120 V | WHITE | |
| L04A | 40W | LINEAR DIR/IND PENDANT LED. NOMINAL 8" WIDE X 1-1/2" HIGH WITH DRIVER HOUSING AT 2.3"H X 4' LONG. EXTRUDED ALUMINIUM & 2-PIECE ALLOW END CAPS. INTEGRAL ELECTRONIC DIMMABLE DRIVER. DISTRIBUTION 35% UP - 65% DOWN. | CORELITE | J3-U-L-3-L35-1-D-120-AC-48-STD -W | PENDANT | 3500K LED - NOMINAL 4900 LUMENS PER 4-FOOT | 120 V | WHITE | |
| L05 | 18W | SURFACE WALL MOUNTED LINEAR LED VANITY ALUMINUM PLATED HOUSING WITH CHROME FINISH. HIGH PERFORMANCE EXTRUDED ACRYLIC LENS. NORMAL 2 ½" DIAMETER X 47" LONG. | EUREKA | MOONSET PLUS 47.18.40 | WALL | 4000K LED - NOMINAL 4200 LUMEN OUTPUT | 120 V | | |
| L06 | 40W | RECESSED 2 x 4 x 4 1/2"D STEEL HOUSING WITH INJECTION MOLDED END PLATES FOR RIGIDITY. SATIN WHITE LENSES PROVIDING DIRECTED OPTICAL DISTRIBUTION. IESNA LM79 AND LM-80 STANDARD. | LITHONIA | 2FSL4 40L EOHN LP835 | RECESSED | 3500K LED - NOMINAL 4200 LUMEN OUTPUT | 120 V | N/A | |
| L06B | 40W | SIMILAR TO TYPE 'L06' EXCEPT SURFACE MOUNTED | LITHONIA | | SURFACE | 3500K LED - NOMINAL 4200 LUMEN OUTPUT | 120 V | | |
| L06E | 40W | SIMILAR TO TYPE 'L06' EXCEPT WITH EMERGENCY BATTERY PACK. | LITHONIA | 2FSL4 40L EOHN LP835-EL14L | RECESSED | 3500K LED - NOMINAL 4200 LUMEN OUTPUT | 120 V | | PROVIDE 90 MIN EMERGENCY BACKUP BATTERY. |
| L07 | 34W | RECESSED 2 x 2 x 4 1/2"D STEEL HOUSING WITH INJECTION MOLDED END PLATES FOR RIGIDITY. SATIN WHITE LENSES PROVIDING DIRECTED OPTICAL DISTRIBUTION. IESNA LM79 AND LM-80 STANDARD. | LITHONIA | 2FSL2-33L EOHN LP835 | RECESSED | 3500K LED - NOMINAL 3300 LUMEN OUTPUT | 120 V | | |
| L07E | 34W | SIMILAR TO TYPE 'L07' EXCEPT WITH EMERGENCY BATTERY PACK. | LITHONIA | 2FSL2-33L EOHN LP835 | RECESSED | 3500K LED - NOMINAL 3300 LUMEN OUTPUT | 120 V | | PROVIDE 90 MIN EMERGENCY BACKUP BATTERY. |
| L08 | 13W | RECESSED 4" ROUND APERTURE LED DOWNLIGHT, NOMINALLY 5-1/2" RECESS DEPTH. COLD ROLLED STEEL HOUSING. SELF-FLANGED, CLEAR, SEMI-SPECULAR ALZAK LOWER CONE REFLECTOR PROVIDES NOMINALLY 50 DEGREE CUTOFF TO IMAGE OF LENS. INTEGRAL LED DRIVER, DIMMABLE TO 10%. | LITHONIA | LDN4-35-10-L04-AR-LD-120-EZ10 | RECESSED | 3500K LED - NOMINAL 1000 LUMEN OUTPUT | 120 V | | |
| L09 | 16W | EXTERIOR SLOPED ADJUSTABLE RECESSED 6" ROUND APERTURE LED DOWNLIGHT, NOMINALLY 7-1/2" RECESS DEPTH. UL LISTED FOR DAMP LOCATIONS | JUNO | IC926LED9G4-41K-U-620HZ-SC | RECESSED | 4000K INTEGRAL LED, NOMINAL1000 LUMEN OUTPUT | 120 V | | |
| L09E | 16W | SIMILAR TO TYPE 'L09' EXCEPT WITH EMERGENCY BATTERY PACK. | JUNO | IC926LED9G4-41K-U-620HZ-SC | RECESSED | 4000K INTEGRAL LED, NOMINAL1000 LUMEN OUTPUT | 120 V | | |
| L10 | 22 | EXTERIOR LED WALL PACK. NOMINAL 12.5" WIDTH X 5.75" HEIGHT. STANDARD MANUFACTURER FINISH AS CHOSEN BY ARCHIECT. UL WET LISTED. | LITHONIA | WSTM-LED | WALL | 3000K LED NOMINAL 1300 LUMEN OUTPOUT | 120 V | | MOUNT FIXTURE AT CENTER OF TRIM WORK TO CENTER OF FIXTURE UNLESS OTHERWISE NOTED. COORDINATE FINAL ELEVATION WITH ARCHITECTURAL ELEVATIONS. |
| L10E | 22 | SIMILAR TO TYPE 'L10' EXCEPT WITH EMERGENCY BATTERY PACK. | LITHONIA | WSTM-LED | WALL | 3000K LED NOMINAL 1300 LUMEN OUTPOUT | 120 V | | |
| L11 | 34W | 6" WIDE LINEAR RECESSED | AXIS | BEAM6 | RECESSED | 3500K LED - NOMINAL 2000 LUMEN OUTPUT | 120 V | | |
| L12 | 7W | SURFACE MOUNT MONOPOINT SIGN LIGHT | BK LIGHTING | AL-MN-LED-E67-NFL-13-B | RECESSED | 4000K INTEGRAL LED, NOMINAL700 LUMEN OUTPUT | 120 V | ALUMINUM | |
| S01 | 137W | POLE MOUNTED SINGLE-HEAD LED CUT-OFF LUMINAIRE, NOMINAL 17-1/2" X 17-1/2" X 7". TYPE III LIGHT DISTRIBUTION. 700Ma DRIVER. | LITHONIA | KAD LED-60C-700-40K-R3--208-RPD | 25' HIGH, ROUND STEEL POLE. | LED BOARD, NEUTRAL WHITE LEDS 4000K - NOMINAL 8500 LUMENS | 208 V | ALUMINUM | 25' POLE MOUNTED ON 30" BASE (REFERENCE DETAILS) |
| S02 | 73W | PEDESTRIAN POLE MOUNTED SINGLE-HEAD LED CUT-OFF LUMINAIRE, NOMINAL 17-1/2" X 17-1/2" X 7". TYPE II LIGHT DISTRIBUTION. 1000Ma DRIVER. | LITHONIA | KAD LED-20C-1000-40K-R2--208-RPD | 12' HIGH, ROUND STEEL POLE. | LED BOARD, NEUTRAL WHITE LEDS 4000K - NOMINAL 8500 LUMENS | 208 V | ALUMINUM | 12' POLE FLUSH WITH GRADE.(REFERENCE DETAILS) |
| S03 | 73W | PEDESTRIAN POLE MOUNTED SINGLE-HEAD LED CUT-OFF LUMINAIRE, NOMINAL 17-1/2" X 17-1/2" X 7". TYPE V LIGHT DISTRIBUTION. 1000Ma DRIVER. | LITHONIA | KAD LED-20C-1000-40K-R5--208-RPD | 12' HIGH, ROUND STEEL POLE. | LED BOARD, NEUTRAL WHITE LEDS 4000K - NOMINAL 8500 LUMENS | 208 V | ALUMINUM | 12' POLE FLUSH WITH GRADE.(REFERENCE DETAILS) |
| S04 | 15W | INGRADE MONUMENT SIGN LIGHT | WAC | WAC 5022_SP_0 | INGRADE | | 208 V | ALUMINUM | 16' POLE FLUSH WITH GRADE. |
| S05 | 62W | SURFACE MOUNTED GASKETED 2-LAMP T8 PARKING STRUCTURE LIGHT | LITHONIA | DMW | SURFACE (PARKING STRUCTURE). | LED BOARD, NEUTRAL WHITE LEDS 4000K - NOMINAL 8500 LUMENS | 208 V | ALUMINUM | 16' POLE FLUSH WITH GRADE. |
| X01 | 3W | CEILING OR WALL MOUNTED SINGLE FACE GREEN LED EXIT SIGN. DIE-FORMED GALVANIED STEEL. ALUMINUM HOUSING TRIM MOUNTS FLUSH ONTO WALL OR CEILING. UL924 STANDARD. | LITHONIA | LQM-S-W-3-R-120/277-ELN | SURFACE | LED | 120 V | ALUMINUM | |
| X02 | 3W | X02 – SIMILAR TO X01, EXCEPT DOUBLE FACES. | LITHONIA | LQM-S-W-3-R-120/277-ELN | SURFACE | | 120 V | ALUMINUM | |

## MECHANICAL EQUIPMENT ELECTRICAL CONNNECTION SCHEDULE

| Equipment ID | Equipment Description | Equipment Location | LOAD FLA | LOAD HP | LOAD WATT | LOAD MCA | LOAD MOCP | Voltage 1 | Phase | Panel | Circuit Number | Conduit & Feeder | Disc at Unit | Motor Starter | VFD | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AC-1 | AC UNIT | SERVER ROOM | 7.7 | 1 | | 9.6 A | 20 A | 208 V | 1 | | | 3/4"C-3#12,#12G | - | | | POWERED BY ASSOCIATED CONDENSOR UNIT |
| CP-1 | CIRCULATION PUMP | MECH 127 | 0.0 | 0 | 300 W | 0.0 A | 15 A | 120 V | 1 | P2M | 41 | 3/4"C-2#12,#12G | 20A | | | MOTOR RATED SWITCH |
| EF-1 | EXHAUST FAN | MECH 127 | 0.0 | 0 | 960 W | 0.0 A | 20 A | 120 V | 1 | P2M | 18 | 3/4"C-2#12,#12G | 20A | | | MOTOR RATED SWITCH |
| ERV-01 | ENERGY RECOVERY VENTILATOR | MECH MEZZ | 4.8 | 1 | 1662 W | 6.0 A | 20 A | 208 V | 3 | P2M | 10,12,14 | 3/4"C-3#12,#12G | 20A | DIV 23 | | |
| FCU-01 | FAN COIL UNIT | TECH SERVICES 112 | 0.8 | 0 | 290 W | 1.0 A | 20 A | 208 V | 1 | P2M | 1,3 | 3/4"C-2#12,#12G | 20A | | | DOUBLE POLE MOTOR RATED SWITCH |
| FCU-02 | FAN COIL UNIT | TECH OFFICE 114 | 1.0 | 0 | 345 W | 1.2 A | 20 A | 208 V | 1 | P2M | 1,3 | 3/4"C-2#12,#12G | 20A | | | DOUBLE POLE MOTOR RATED SWITCH |
| FCU-03 | FAN COIL UNIT | MEETING ROOM 110 | 1.4 | 0 | 520 W | 1.8 A | 20 A | 208 V | 1 | P2M | 5,7 | 3/4"C-2#12,#12G | 20A | | | DOUBLE POLE MOTOR RATED SWITCH |
| FCU-04 | FAN COIL UNIT | MICA FILES 109 | 0.8 | 0 | 290 W | 1.0 A | 20 A | 208 V | 1 | P2M | 9,11 | 3/4"C-2#12,#12G | 20A | | | DOUBLE POLE MOTOR RATED SWITCH |
| FCU-05 | FAN COIL UNIT | MANAGER 105 | 0.8 | 0 | 290 W | 1.0 A | 20 A | 208 V | 1 | P2M | 13,15 | 3/4"C-2#12,#12G | 20A | | | DOUBLE POLE MOTOR RATED SWITCH |
| FCU-06 | FAN COIL UNIT | OFFICE 106/107/108 | 0.4 | 0 | 150 W | 0.5 A | 20 A | 208 V | 1 | P2M | 13,15 | 3/4"C-2#12,#12G | 20A | | | DOUBLE POLE MOTOR RATED SWITCH |
| FCU-07 | FAN COIL UNIT | OPEN OFFICE103 | 1.4 | 0 | 520 W | 1.8 A | 20 A | 208 V | 1 | P2M | 9,11 | 3/4"C-2#12,#12G | 20A | | | DOUBLE POLE MOTOR RATED SWITCH |
| FCU-08 | FAN COIL UNIT | VEST 100 | 0.8 | 0 | 290 W | 1.0 A | 20 A | 208 V | 1 | P2M | 17,19 | 3/4"C-2#12,#12G | 20A | | | DOUBLE POLE MOTOR RATED SWITCH |
| FCU-09 | FAN COIL UNIT | FISCAL 115 | 0.8 | 0 | 1580 W | 1.0 A | 20 A | 208 V | 1 | P2M | 21,23 | 3/4"C-2#12,#12G | 20A | | | DOUBLE POLE MOTOR RATED SWITCH |
| FCU-10 | FAN COIL UNIT | HALL 121 | 0.8 | 0 | 290 W | 1.0 A | 20 A | 208 V | 1 | P2M | 17,19 | 3/4"C-2#12,#12G | 20A | | | DOUBLE POLE MOTOR RATED SWITCH |
| FCU-11 | FAN COIL UNIT | ARCHIVE 122 | 1.4 | 0 | 520 W | 1.8 A | 20 A | 208 V | 1 | P2M | 25,27 | 3/4"C-2#12,#12G | 20A | | | DOUBLE POLE MOTOR RATED SWITCH |
| FCU-12 | FAN COIL UNIT | LOCKERS 127/128 | 1.4 | 0 | 520 W | 1.8 A | 20 A | 208 V | 1 | P2M | 29,31 | 3/4"C-2#12,#12G | 20A | | | DOUBLE POLE MOTOR RATED SWITCH |
| FCU-13 | FAN COIL UNIT | CONF 131 | 0.8 | 0 | 290 W | 1.0 A | 20 A | 208 V | 1 | P2M | 29,31 | 3/4"C-2#12,#12G | 20A | | | DOUBLE POLE MOTOR RATED SWITCH |
| FCU-14 | FAN COIL UNIT | KITCHEN 124 | 1.0 | 0 | 345 W | 1.2 A | 20 A | 208 V | 1 | P2M | 33,35 | 3/4"C-2#12,#12G | 20A | | | DOUBLE POLE MOTOR RATED SWITCH |
| FCU-15 | FAN COIL UNIT | IT MANAGER 133 | 0.8 | 0 | 290 W | 1.0 A | 20 A | 208 V | 1 | P2M | 37,39 | 3/4"C-2#12,#12G | 20A | | | DOUBLE POLE MOTOR RATED SWITCH |
| FCU-16 | FAN COIL UNIT | OPEN OFFICE 134 | 1.0 | 0 | 345 W | 1.2 A | 20 A | 208 V | 1 | P2M | 37,39 | 3/4"C-2#12,#12G | 20A | | | DOUBLE POLE MOTOR RATED SWITCH |
| FCU-17 | FAN COIL UNIT | EQUIPMENT 129 | 0.4 | 0 | 150 W | 0.5 A | 20 A | 208 V | 1 | P2M | 2,4 | 3/4"C-2#12,#12G | 20A | | | DOUBLE POLE MOTOR RATED SWITCH |
| FCU-18 | FAN COIL UNIT | STORAGE 135 | 0.8 | 0 | 150 W | 1.0 A | 20 A | 208 V | 1 | P2M | 2,4 | 3/4"C-2#12,#12G | 20A | | | DOUBLE POLE MOTOR RATED SWITCH |
| FS-01A | FLOW SELECTOR | HALL 121 | 0.8 | 0 | 250 W | 1.2 A | 20 A | 208 V | 1 | P2M | 17,19 | 3/4"C-2#12,#12G | 20A | | | DOUBLE POLE MOTOR RATED SWITCH |
| FS-01B | FLOW SELECTOR | VEST 100 | 0.8 | 0 | 250 W | 1.2 A | 20 A | 208 V | 1 | P2M | 17,19 | 3/4"C-2#12,#12G | 20A | | | DOUBLE POLE MOTOR RATED SWITCH |
| FS-01C | FLOW SELECTOR | OPEN OFFICE 134 | 0.8 | 0 | 250 W | 1.2 A | 20 A | 208 V | 1 | P2M | 37,39 | 3/4"C-2#12,#12G | 20A | | | DOUBLE POLE MOTOR RATED SWITCH |
| HP-1 | HEAT PUMP | EXTERIOR | 28.0 | 1 | 7280 W | 35.0 A | 50 A | 208 V | 1 | P2M | 6,8 | 1"C-3#8,#10G | 20A | | | PROVIDE INTERLOCK WITH AC UNIT |
| HP-2 | HEAT PUMP | EXTERIOR | 52.9 | 20 | 19065 W | 66.1 A | 70 A | 208 V | 1 | P1G | 5 | SEE ONE-LINE | 70A | | | |
| HP-3 | HEAT PUMP | EXTERIOR | 41.7 | 15 | 14445 W | 52.1 A | 60 A | 208 V | 1 | P1G | 6 | SEE ONE-LINE | 60A | | | |
| WH-1 | GAS WATER HEATER | MECH 127 | 1.6 | 0 | 500 W | 2.4 A | 20 A | 120 V | 1 | P2M | 16 | 3/4"C-2#12,#12G | 20A | | | SINGLE POLE MOTOR RATED SWITCH |

RECORD DRAWING.

THE SUPPLEMENTAL ENTRIES AND NOTATIONS ON THIS DRAWING INDICATE CHANGES MADE DURING THE CONSTRUCTION PROCESS AS RECORDED BY THE CONTRACTOR AND TRANSFERED TO THE REPRODUCIBLE DRAWINGS BY THE ENGINEER. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR RELIABILITY OF CONTRACTOR PROVIDED INFORMATION.

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# IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500

## DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE

3284 INDUSTRIAL LOOP, COEUR D'ALENE, IDAHO 83815

SCHEDULES

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | MM |
| DRAWN BY | Author |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | WJB |
| REVISION | 05/05/17 |
| SHEET NO. | |

E7.01

# Switchboard: P1G

**Location:** | **Volts:** 120/208 Wye | **A.I.C. Rating:** 42,000
**Supply From:** | **Phases:** 3 | **Mains Type:** MCB
**Mounting:** WALL | **Wires:** 4 | **Mains Rating:** 600 A
**Enclosure:** TYPE 1 SERVICE ENTRANCE | **MCB Rating:** 600 A

**Notes:**

| CKT | Circuit Description | # of Poles | Frame Size | Trip Rating | Load | Remarks |
|---|---|---|---|---|---|---|
| 1 | P2A | 3 | 400 A | 225 A | 26040 VA | |
| 2 | P2B1 | 3 | 400 A | 225 A | 64552 VA | |
| 3 | P2M | 3 | 200 A | 150 A | 18627 VA | |
| 4 | Y1 | 3 | 400 A | 225 A | 16092 VA | |
| 5 | Motor HP-3 | 3 | 100 A | 70 A | 19065 VA | |
| 6 | Motor HP-4 | 3 | 100 A | 60 A | 14445 VA | |
| 7 | SPD | 3 | -- | 60 A | 2500 VA | |
| 8 | Spare | 3 | -- | 200 A | 0 VA | |
| 9 | Spare | 3 | -- | 200 A | 0 VA | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |
| 16 | | | | | | |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |
| | | | | **Total Conn. Load:** | 161290 VA | |
| | | | | **Total Amps:** | 448 A | |

**Legend:**

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| Equipment | 9760 VA | 100.00% | 9760 VA | | |
| HVAC | 7925 VA | 100.00% | 7925 VA | **Total Conn. Load:** | 161290 VA |
| Lighting - Dwelling Unit | 192 VA | 100.00% | 192 VA | **Total Est. Demand:** | 143525 VA |
| Motor | 42452 VA | 111.23% | 47219 VA | **Total Conn.:** | 448 A |
| Other | 0 VA | 0.00% | 0 VA | **Total Est. Demand:** | 398 A |
| Receptacle | 59620 VA | 58.39% | 34810 VA | | |
| Spare | 6500 VA | 100.00% | 6500 VA | | |
| Lighting | 9421 VA | 125.00% | 11776 VA | | |
| Power | 22900 VA | 100.00% | 22900 VA | | |
| Receptacles - General | 2880 VA | 100.00% | 2880 VA | | |

**Notes:**

# Branch Panel: P2B1

**Location:** ELECTRICAL 125 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 14,000
**Supply From:** P1G | **Phases:** 3 | **Mains Type:** MLO
**Mounting:** Surface | **Wires:** 4 | **Mains Rating:** 225 A
**Enclosure:** Type 1 | **MCB Rating:**

**Notes:**

| CKT | Circuit Description | Trip | Poles | A | | B | | C | | Poles | Trip | Circuit Description | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Room 101, 120, 118 | 20 A | 1 | 1320... | 1380... | | | | | 1 | 20 A | Receptacle MICA OPEN OFFICE 103 | 2 |
| 3 | Room 117, 119, 37 | 20 A | 1 | | | 1920... | 540 VA | | | 1 | 20 A | Receptacle MICA OPEN OFFICE 103 | 4 |
| 5 | CORRIDIOR 121A | 20 A | 1 | | | | | 180 VA | 1200... | 1 | 20 A | Power | 6 |
| 7 | Receptacle CORRIDIOR 121A | 20 A | 1 | 1200... | 1080... | | | | | 1 | 20 A | Receptacle RECEPTION 101 | 8 |
| 9 | Receptacle MEETING ROOM 110 | 20 A | 1 | | | 1260... | 720 VA | | | 1 | 20 A | Receptacle Room 102, 101 | 10 |
| 11 | Receptacle MEETING ROOM 110 | 20 A | 1 | | | | | 900 VA | 180 VA | 1 | 20 A | Receptacle COPY/WORK RM 102 | 12 |
| 13 | Receptacle MEETING ROOM 110 | 20 A | 1 | 1080... | 1500... | | | | | 1 | 20 A | Receptacle COPY/WORK RM 102 | 14 |
| 15 | MEETING ROOM 110 | 20 A | 1 | | | 720 VA | 720 VA | | | 1 | 20 A | Receptacle COPY/WORK RM 102 | 16 |
| 17 | Receptacle MICA FILES 109 | 20 A | 1 | | | | | 1440... | 1260... | 1 | 20 A | Receptacle Room 101, 101A | 18 |
| 19 | Receptacle Room 108, 107 | 20 A | 1 | 1260... | 1080... | | | | | 1 | 20 A | Receptacle I.T. MANAGER 133 | 20 |
| 21 | Receptacle Room 105, 106 | 20 A | 1 | | | 1260... | 900 VA | | | 1 | 20 A | Receptacle CONF. LRG 132 | 22 |
| 23 | Receptacle Room 104, 103 | 20 A | 1 | | | | | 1260... | 900 VA | 1 | 20 A | Receptacle CONF. LRG 132 | 24 |
| 25 | Power - SYSTEMS FURNITURE | 20 A | 1 | 180 VA | 1260... | | | | | 1 | 20 A | Receptacle CONF. 131 | 26 |
| 27 | Receptacle MICA OPEN OFFICE 103 | 20 A | 1 | | | 1500... | 1200... | | | 1 | 20 A | Receptacle I.T. OPEN OFFICE 134 | 28 |
| 29 | Receptacle MICA OPEN OFFICE 103 | 20 A | 1 | | | | | 180 VA | 1200... | 1 | 20 A | Receptacle I.T. OPEN OFFICE 134 | 30 |
| 31 | Power | 20 A | 1 | 1600... | 1560... | | | | | 1 | 20 A | Power | 32 |
| 33 | Power | 20 A | 1 | | | 1200... | 1200... | | | 1 | 20 A | Receptacle I.T. OPEN OFFICE 134 | 34 |
| 35 | Power | 20 A | 1 | | | | | 360 VA | 960 VA | 1 | 20 A | Receptacle I.T. OPEN OFFICE 134 | 36 |
| 37 | Receptacle | 20 A | 1 | 360 VA | 1500... | | | | | 1 | 20 A | Receptacle I.T. OPEN OFFICE 134 | 38 |
| 39 | Equipment ADA DOOR OPERATORS | 20 A | 1 | | | 1600... | 0 VA | | | 1 | 20 A | Spare | 40 |
| 41 | Spare | 20 A | 1 | | | | | 0 VA | 0 VA | 1 | 20 A | Spare | 42 |
| | | | | **Total Load:** | | 23837 VA | | 23159 VA | | 17563 VA | | | |
| | | | | **Total Amps:** | | 206 A | | 200 A | | 146 A | | | |

**Legend:**

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| Equipment | 7700 VA | 100.00% | 7700 VA | | |
| Lighting - Dwelling Unit | 192 VA | 100.00% | 192 VA | **Total Conn. Load:** | 64552 VA |
| Other | 0 VA | 0.00% | 0 VA | **Total Est. Demand:** | 55349 VA |
| Receptacle | 32940 VA | 65.18% | 21470 VA | **Total Conn.:** | 179 A |
| Spare | 1000 VA | 100.00% | 1000 VA | **Total Est. Demand:** | 154 A |
| Lighting | 9261 VA | 125.00% | 11576 VA | | |
| Power | 11800 VA | 100.00% | 11800 VA | | |
| Receptacles - General | 1980 VA | 100.00% | 1980 VA | | |

**Notes:**

# Branch Panel: P2A

**Location:** ELECTRICAL 125 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 14,000
**Supply From:** P1G | **Phases:** 3 | **Mains Type:** MLO
**Mounting:** Surface | **Wires:** 4 | **Mains Rating:** 225 A
**Enclosure:** Type 1 | **MCB Rating:**

**Notes:**

| CKT | Circuit Description | Trip | Poles | A | | B | | C | | Poles | Trip | Circuit Description | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Spare | 0 A | 1 | 0 VA | 1380... | | | | | 1 | 20 A | Receptacle Room 101 | 2 |
| 3 | Spare | 0 A | 1 | | | 0 VA | 720 VA | | | 1 | 20 A | Receptacle FISCAL OFFICE 116 | 4 |
| 5 | Spare | 0 A | 1 | | | | | 0 VA | 1500... | 1 | 20 A | Receptacle FISCAL OFFICE 116 | 6 |
| 7 | Spare | 0 A | 1 | 0 VA | 1380... | | | | | 1 | 20 A | Receptacle FISCAL OFFICE 116 | 8 |
| 9 | Spare | 20 A | 1 | | | 0 VA | 900 VA | | | 1 | 20 A | Receptacle Room 115, 116 | 10 |
| 11 | Spare | 20 A | 1 | | | | | 0 VA | 1200... | 1 | 20 A | Receptacle TECH / G.I.S. OFFICE 114 | 12 |
| 13 | Receptacle BREAK RM/ KITCHEN 124 | 20 A | 1 | 1500... | 1200... | | | | | 1 | 20 A | Power - SYSTEMS FURNITURE | 14 |
| 15 | Receptacle BREAK RM/ KITCHEN 124 | 20 A | 1 | | | 1500... | 360 VA | | | 1 | 20 A | Receptacle TECH / G.I.S. OFFICE 114 | 16 |
| 17 | Receptacle BREAK RM/ KITCHEN 124 | 20 A | 1 | | | | | 360 VA | 1200... | 1 | 20 A | Power - SYSTEMS FURNITURE | 18 |
| 19 | Receptacle BREAK RM/ KITCHEN 124 | 20 A | 1 | 360 VA | 1200... | | | | | 1 | 20 A | Power - SYSTEMS FURNITURE | 20 |
| 21 | Receptacle BREAK RM/ KITCHEN 124 | 20 A | 1 | | | 180 VA | 720 VA | | | 1 | 20 A | Receptacle NORTH OPS 113 | 22 |
| 23 | Receptacle BREAK RM/ KITCHEN 124 | 20 A | 1 | | | | | 900 VA | 1080... | 1 | 20 A | Receptacle TECH SERVICES 112 | 24 |
| 25 | Receptacle Room 124, 101 | 20 A | 1 | 540 VA | 1200... | | | | | 1 | 20 A | Power - SYSTEMS FURNITURE | 26 |
| 27 | Receptacle Room 101, 122 | 20 A | 1 | | | 720 VA | 1200... | | | 1 | 20 A | Power - SYSTEMS FURNITURE | 28 |
| 29 | Receptacle ARCHIVE 122 | 20 A | 1 | | | | | 720 VA | 180 VA | 1 | 20 A | Receptacle TECH / G.I.S. OFFICE 114 | 30 |
| 31 | Receptacle ARCHIVE 122 | 20 A | 1 | 900 VA | 180 VA | | | | | 1 | 20 A | Receptacle MENS LOCKER 127 | 32 |
| 33 | Spare | 0 A | 1 | | | 0 VA | 180 VA | | | 1 | 20 A | Receptacle WMS. LOCKER 128 | 34 |
| 35 | Space | -- | -- | | | | | 0 VA | 1200... | 1 | 20 A | Power - SYSTEMS FURNITURE | 36 |
| 37 | Spare | 20 A | 1 | 0 VA | 1200... | | | | | 1 | 20 A | Power - SYSTEMS FURNITURE | 38 |
| 39 | Spare | 20 A | 1 | | | 0 VA | 180 VA | | | 1 | 20 A | Receptacle MECH 126 | 40 |
| 41 | Spare | 20 A | 1 | | | | | 0 VA | 0 VA | 1 | 0 A | Spare | 42 |
| | | | | **Total Load:** | | 11040 VA | | 6660 VA | | 8340 VA | | | |
| | | | | **Total Amps:** | | 94 A | | 56 A | | 72 A | | | |

**Legend:**

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| Receptacle | 14040 VA | 85.61% | 12020 VA | | |
| Power | 11100 VA | 100.00% | 11100 VA | **Total Conn. Load:** | 26040 VA |
| Receptacles - General | 900 VA | 100.00% | 900 VA | **Total Est. Demand:** | 24020 VA |
| | | | | **Total Conn.:** | 72 A |
| | | | | **Total Est. Demand:** | 67 A |

**Notes:**

# Branch Panel: P2B2

**Location:** ELECTRICAL 125 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 14,000
**Supply From:** P2B1 | **Phases:** 3 | **Mains Type:** MLO
**Mounting:** Surface | **Wires:** 4 | **Mains Rating:** 225 A
**Enclosure:** Type 1 | **MCB Rating:**

**Notes:**

| CKT | Circuit Description | Trip | Poles | A | | B | | C | | Poles | Trip | Circuit Description | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Receptacle EQUIP. SETUP 129 | 20 A | 1 | 720 VA | 78 VA | | | | | 1 | 20 A | Lighting | 2 |
| 3 | Receptacle EQUIP. SETUP 129 | 20 A | 1 | | | 720 VA | 1396... | | | 1 | 20 A | Lighting Room 101, 37 | 4 |
| 5 | Receptacle EQUIP. SETUP 129 | 20 A | 1 | | | | | 720 VA | 994 VA | 1 | 20 A | Lighting Room 113, 112, 115 | 6 |
| 7 | Receptacle EQUIP. SETUP 129 | 20 A | 1 | 720 VA | 880 VA | | | | | 1 | 20 A | Lighting Room 106, 107, 108, 105, 104 | 8 |
| 9 | Receptacle EQUIP. SETUP 129 | 20 A | 1 | | | 720 VA | 837 VA | | | 1 | 20 A | Lighting | 10 |
| 11 | Receptacle EQUIP. SETUP 129 | 20 A | 1 | | | | | 720 VA | 1009... | 1 | 20 A | Lighting Room 102, 101, 120, 119 | 12 |
| 13 | Receptacle EQUIP. SETUP 129 | 20 A | 1 | 1260... | 923 VA | | | | | 1 | 20 A | Lighting Room 133, 132, 131 | 14 |
| 15 | Receptacle Room 101, 134, 135 | 20 A | 1 | | | 1620... | 982 VA | | | 1 | 20 A | Lighting Room 124 | 16 |
| 17 | Spare | 0 A | 1 | | | | | 0 VA | 988 VA | 1 | 20 A | Lighting | 18 |
| 19 | Spare | 0 A | 1 | 0 VA | 533 VA | | | | | 2 | 20 A | Lighting Site Lighting | 20 |
| 21 | Spare | 0 A | 1 | | | 0 VA | 533 VA | | | -- | -- | -- | 22 |
| 23 | Spare | 0 A | 1 | | | | | 0 VA | 348 VA | 1 | 20 A | Lighting - Mechanical Mezz | 24 |
| 25 | Equipment - Heat Trace (NOTE 1) | 20 A | 1 | 500 VA | 500 VA | | | | | 1 | 20 A | Equipment - Heat Trace Controller | 26 |
| 27 | Equipment - Heat Trace (NOTE 1) | 20 A | 1 | | | 1000... | 0 VA | | | 1 | 20 A | Spare | 28 |
| 29 | Equipment - Heat Trace (NOTE 1) | 20 A | 1 | | | | | 1200... | 0 VA | 1 | 20 A | Spare | 30 |
| 31 | Equipment - Heat Trace (NOTE 1) | 20 A | 1 | 1200... | 0 VA | | | | | 1 | 20 A | Spare | 32 |
| 33 | Equipment - Heat Trace (NOTE 1) | 20 A | 1 | | | 500 VA | 0 VA | | | 1 | 20 A | Spare | 34 |
| 35 | Equipment - Heat Trace (NOTE 1) | 20 A | 1 | | | | | 1200... | 0 VA | 1 | 20 A | Spare | 36 |
| 37 | GATE CONTROLLER - WEST | 20 A | 2 | 250 VA | 0 VA | | | | | 1 | 20 A | Spare | 38 |
| 39 | -- | -- | -- | | | 250 VA | 0 VA | | | 1 | 20 A | Spare | 40 |
| 41 | IRRIGATION CONTROLLER | 20 A | 1 | | | | | 500 VA | 0 VA | 1 | 20 A | Spare | 42 |
| | | | | **Total Load:** | | 7493 VA | | 8457 VA | | 7584 VA | | | |
| | | | | **Total Amps:** | | 62 A | | 71 A | | 63 A | | | |

**Legend:**

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| Equipment | 6100 VA | 100.00% | 6100 VA | | |
| Lighting - Dwelling Unit | 192 VA | 100.00% | 192 VA | **Total Conn. Load:** | 23526 VA |
| Other | 0 VA | 0.00% | 0 VA | **Total Est. Demand:** | 25811 VA |
| Receptacle | 7200 VA | 100.00% | 7200 VA | **Total Conn.:** | 65 A |
| Spare | 1000 VA | 100.00% | 1000 VA | **Total Est. Demand:** | 72 A |
| Lighting | 9261 VA | 125.00% | 11576 VA | | |

**Notes:**
1) PROVIDE GFPD BREAKER FOR SNOW MELT EQUIPMENT.

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IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500
DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE
3284 INDUSTRIAL LOOP, COEUR D'ALENE, IDAHO 83815

PANEL SCHEDULES

RECORD DRAWING:
THE SUPPLEMENTAL ENTRIES AND NOTATIONS ON THIS DRAWING INDICATE CHANGES MADE DURING THE CONSTRUCTION PROCESS AS RECORDED BY THE CONTRACTOR AND TRANSFERED TO THE REPRODUCIBLE DRAWINGS BY THE ENGINEER. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR RELIABILITY OF CONTRACTOR PROVIDED INFORMATION.

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | MM |
| DRAWN BY | Author |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | WJB |
| REVISION | 05/05/17 |
| SHEET NO. | |

E7.02

# Branch Panel: P2M

**Location:** ELECTRICAL 125
**Supply From:** P1G
**Mounting:** Surface
**Enclosure:** Type 1

**Volts:** 120/208 Wye
**Phases:** 3
**Wires:** 4

**A.I.C. Rating:** 14,000
**Mains Type:** MLO
**Mains Rating:** 150 A
**MCB Rating:**

**Notes:**

| CKT | Circuit Description | Trip | Poles | A | | B | | C | | Poles | Trip | Circuit Description | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | HVAC TECH / G.I.S. OFFICE 114 | 20 A | 2 | 318 VA | 150 VA | | | | | 2 | 20 A | HVAC Room 135, 129 | 2 |
| 3 | -- | -- | -- | | | 318 VA | 150 VA | | | -- | -- | -- | 4 |
| 5 | HVAC MEETING ROOM 110 | 20 A | 2 | | | | | 260 VA | 3640... | 2 | 50 A | Motor HP-1 / AC-1 | 6 |
| 7 | -- | -- | -- | 260 VA | 3640... | | | | | -- | -- | -- | 8 |
| 9 | HVAC Room 109, 103 | 20 A | 2 | | | 405 VA | 554 VA | | | 3 | 40 A | Motor ERV-1 | 10 |
| 11 | -- | -- | -- | | | | | 405 VA | 554 VA | -- | -- | -- | 12 |
| 13 | HVAC Room 105, 103, 109 | 20 A | 2 | 220 VA | 554 VA | | | | | -- | -- | -- | 14 |
| 15 | -- | -- | -- | | | 220 VA | 500 VA | | | 1 | 20 A | Equipment WH-1 | 16 |
| 17 | HVAC RECEPTION 101 | 20 A | 2 | | | | | 540 VA | 960 VA | 1 | 20 A | Equipment Space 121C | 18 |
| 19 | -- | -- | -- | 540 VA | 0 VA | | | | | 1 | 0 A | Spare | 20 |
| 21 | HVAC Room 115, 37 | 20 A | 2 | | | 790 VA | 0 VA | | | 2 | 20 A | Spare | 22 |
| 23 | -- | -- | -- | | | | | 790 VA | 0 VA | -- | -- | -- | 24 |
| 25 | HVAC ARCHIVE 122 | 20 A | 2 | 260 VA | 0 VA | | | | | 2 | 20 A | Spare | 26 |
| 27 | -- | -- | -- | | | 260 VA | 0 VA | | | -- | -- | -- | 28 |
| 29 | HVAC RECEPTION 101 | 20 A | 2 | | | | | 405 VA | 0 VA | 2 | 20 A | Spare | 30 |
| 31 | -- | -- | -- | 405 VA | 0 VA | | | | | -- | -- | -- | 32 |
| 33 | HVAC Room 124, 135 | 20 A | 2 | | | 173 VA | 0 VA | | | 1 | 20 A | Spare | 34 |
| 35 | -- | -- | -- | | | | | 173 VA | 0 VA | 1 | 20 A | Spare | 36 |
| 37 | HVAC Room 134, 129 | 20 A | 2 | 443 VA | 0 VA | | | | | 1 | 20 A | Spare | 38 |
| 39 | -- | -- | -- | | | 443 VA | 0 VA | | | 1 | 20 A | Spare | 40 |
| 41 | Equipment MECH 126 CP-1 | 20 A | 1 | | | | | 300 VA | 0 VA | 1 | 20 A | Spare | 42 |
| | | **Total Load:** | | 6789 VA | | 3812 VA | | 8027 VA | | | | | |
| | | **Total Amps:** | | 60 A | | 32 A | | 71 A | | | | | |

**Legend:**

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| Equipment | 1760 VA | 100.00% | 1760 VA | | |
| HVAC | 7925 VA | 100.00% | 7925 VA | **Total Conn. Load:** | 18627 VA |
| Motor | 8942 VA | 120.35% | 10762 VA | **Total Est. Demand:** | 20447 VA |
| | | | | **Total Conn.:** | 52 A |
| | | | | **Total Est. Demand:** | 57 A |

**Notes:**

# Branch Panel: Y1

**Location:** ELECTRICAL 125
**Supply From:** P1G
**Mounting:** Surface
**Enclosure:** Type 1

**Volts:** 120/208 Wye
**Phases:** 3
**Wires:** 4

**A.I.C. Rating:** 14,000
**Mains Type:** MCB
**Mains Rating:** 225 A
**MCB Rating:** 225 A

**Notes:**

| CKT | Circuit Description | Trip | Poles | A | | B | | C | | Poles | Trip | Circuit Description | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Y2 | 100 A | 3 | 3060... | 1400... | | | | | 3 | 100 A | Y3 | 2 |
| 3 | -- | -- | -- | | | 4080... | 1400... | | | -- | -- | -- | 4 |
| 5 | -- | -- | -- | | | | | 3720... | 0 VA | -- | -- | -- | 6 |
| 7 | Spare | 20 A | 1 | 0 VA | 300 VA | | | | | 1 | 20 A | Equipment ELECTRICAL 125 | 8 |
| 9 | Spare | 20 A | 1 | | | 0 VA | 540 VA | | | 1 | 20 A | Receptacle | 10 |
| 11 | Spare | 20 A | 1 | | | | | 0 VA | 720 VA | 1 | 20 A | Receptacle | 12 |
| 13 | Spare | 20 A | 1 | 0 VA | 360 VA | | | | | 1 | 20 A | Receptacle | 14 |
| 15 | Spare | 20 A | 1 | | | 0 VA | 160 VA | | | 1 | 20 A | Lighting | 16 |
| 17 | Spare | 20 A | 1 | | | | | 0 VA | 360 VA | 1 | 20 A | Receptacle | 18 |
| 19 | Spare | 20 A | 1 | 0 VA | 0 VA | | | | | 1 | 0 A | Spare | 20 |
| 21 | Spare | 20 A | 1 | | | 0 VA | 0 VA | | | 1 | 0 A | Spare | 22 |
| 23 | Spare | 20 A | 1 | | | | | 0 VA | 0 VA | 1 | 0 A | Spare | 24 |
| 25 | Spare | 20 A | 1 | 0 VA | 0 VA | | | | | 1 | 0 A | Spare | 26 |
| 27 | Spare | 20 A | 1 | | | 0 VA | 0 VA | | | 1 | 0 A | Spare | 28 |
| 29 | Spare | 20 A | 1 | | | | | 0 VA | 0 VA | 1 | 0 A | Spare | 30 |
| 31 | | | | | | | | | | | | | 32 |
| 33 | | | | | | | | | | | | | 34 |
| 35 | | | | | | | | | | | | | 36 |
| 37 | | | | | | | | | | | | | 38 |
| 39 | | | | | | | | | | | | | 40 |
| 41 | | | | | | | | | | | | | 42 |
| | | **Total Load:** | | 5120 VA | | 6172 VA | | 4800 VA | | | | | |
| | | **Total Amps:** | | 43 A | | 52 A | | 40 A | | | | | |

**Legend:**

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| Equipment | 300 VA | 100.00% | 300 VA | | |
| Receptacle | 12640 VA | 89.56% | 11320 VA | **Total Conn. Load:** | 16092 VA |
| Spare | 3000 VA | 100.00% | 3000 VA | **Total Est. Demand:** | 14810 VA |
| Lighting | 160 VA | 125.00% | 200 VA | **Total Conn.:** | 45 A |
| | | | | **Total Est. Demand:** | 41 A |

**Notes:**

# Branch Panel: Y2

**Location:** Space 127C
**Supply From:** Y1
**Mounting:** Surface
**Enclosure:** Type 1

**Volts:** 120/208 Wye
**Phases:** 3
**Wires:** 4

**A.I.C. Rating:** 14,000
**Mains Type:** MCB
**Mains Rating:** 100 A
**MCB Rating:** 100 A

**Notes:**

| CKT | Circuit Description | Trip | Poles | A | | B | | C | | Poles | Trip | Circuit Description | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Receptacle SERVER 130 | 20 A | 1 | 540 VA | 300 VA | | | | | 2 | 30 A | Receptacle SERVER 130 | 2 |
| 3 | Receptacle SERVER 130 | 20 A | 1 | | | 360 VA | 300 VA | | | -- | -- | -- | 4 |
| 5 | Receptacle SERVER 130 | 20 A | 1 | | | | | 360 VA | 300 VA | 2 | 30 A | Receptacle SERVER 130 | 6 |
| 7 | Receptacle SERVER 130 | 20 A | 1 | 360 VA | 300 VA | | | | | -- | -- | -- | 8 |
| 9 | Receptacle SERVER 130 | 20 A | 1 | | | 360 VA | 300 VA | | | 2 | 30 A | Receptacle SERVER 130 | 10 |
| 11 | Receptacle SERVER 130 | 20 A | 1 | | | | | 360 VA | 300 VA | -- | -- | -- | 12 |
| 13 | Receptacle SERVER 130 | 20 A | 1 | 360 VA | 300 VA | | | | | 2 | 30 A | Receptacle SERVER 130 | 14 |
| 15 | Receptacle SERVER 130 | 20 A | 1 | | | 360 VA | 300 VA | | | -- | -- | -- | 16 |
| 17 | Spare | 20 A | 1 | | | | | 0 VA | 300 VA | 2 | 30 A | Receptacle SERVER 130 | 18 |
| 19 | Spare | 20 A | 1 | 0 VA | 300 VA | | | | | -- | -- | -- | 20 |
| 21 | Spare | 20 A | 1 | | | 0 VA | 300 VA | | | 2 | 30 A | Receptacle SERVER 130 | 22 |
| 23 | Spare | 20 A | 1 | | | | | 0 VA | 300 VA | -- | -- | -- | 24 |
| 25 | Spare | 20 A | 1 | 0 VA | 300 VA | | | | | 2 | 30 A | Receptacle SERVER 130 | 26 |
| 27 | Spare | 20 A | 1 | | | 0 VA | 300 VA | | | -- | -- | -- | 28 |
| 29 | Spare | 20 A | 1 | | | | | 0 VA | 300 VA | 2 | 30 A | Receptacle SERVER 130 | 30 |
| 31 | Spare | 20 A | 1 | 0 VA | 300 VA | | | | | -- | -- | -- | 32 |
| 33 | Spare | 20 A | 1 | | | 0 VA | 1500... | | | 1 | 20 A | Battery Chargers | 34 |
| 35 | Spare | 20 A | 1 | | | | | 0 VA | 1500... | 1 | 20 A | Block Heater | 36 |
| 37 | Spare | 20 A | 1 | 0 VA | 0 VA | | | | | 1 | 20 A | Spare | 38 |
| 39 | Spare | 20 A | 1 | | | 0 VA | 0 VA | | | 1 | 20 A | Spare | 40 |
| 41 | Spare | 20 A | 1 | | | | | 0 VA | 0 VA | 1 | 20 A | Spare | 42 |
| | | **Total Load:** | | 3060 VA | | 4080 VA | | 3720 VA | | | | | |
| | | **Total Amps:** | | 26 A | | 35 A | | 32 A | | | | | |

**Legend:**

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| Receptacle | 7860 VA | 100.00% | 7860 VA | | |
| Spare | 3000 VA | 100.00% | 3000 VA | **Total Conn. Load:** | 10860 VA |
| | | | | **Total Est. Demand:** | 10860 VA |
| | | | | **Total Conn.:** | 30 A |
| | | | | **Total Est. Demand:** | 30 A |

**Notes:**

# Branch Panel: P1A(E)

**Location:**
**Supply From:**
**Mounting:** Surface
**Enclosure:** Type 1

**Volts:** 120/208 Wye
**Phases:** 3
**Wires:** 4

**A.I.C. Rating:** 22,000
**Mains Type:** MCB
**Mains Rating:** 225 A
**MCB Rating:** 225 A

**Notes:**

| CKT | Circuit Description | Trip | Poles | A | | B | | C | | Poles | Trip | Circuit Description | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | COMPUTER (EXISTING) | 20 A | 1 | 800 VA | 1060... | | | | | 1 | 20 A | 132,133,134,136,137 (EXISITNG) | 2 |
| 3 | COMPUTER (EXISTING) | 20 A | 1 | | | 800 VA | 1020... | | | 1 | 20 A | 138 (EXISITNG) | 4 |
| 5 | COMPUTER (EXISTING) | 20 A | 1 | | | | | 800 VA | 1190... | 1 | 20 A | 138 (EXISITNG) | 6 |
| 7 | COMPUTER (EXISTING) | 20 A | 1 | 800 VA | 1128... | | | | | 1 | 20 A | 102,138 (EXISITNG) | 8 |
| 9 | COMPUTER (EXISTING) | 20 A | 1 | | | 1200... | 686 VA | | | 1 | 20 A | 135 (EXISITNG) | 10 |
| 11 | COMPUTER (EXISTING) | 20 A | 1 | | | | | 800 VA | 1152... | 1 | 20 A | 142,143 (EXISITNG) | 12 |
| 13 | COMPUTER (EXISTING) | 20 A | 1 | 1080... | 1164... | | | | | 1 | 20 A | 101,106,146 (EXISITNG) | 14 |
| 15 | COMPUTER (EXISTING) | 20 A | 1 | | | 1200... | 1375... | | | 1 | 20 A | 128 (EXISITNG) | 16 |
| 17 | COMPUTER (EXISTING) | 20 A | 1 | | | | | 800 VA | 1260... | 1 | 20 A | 126,131 (EXISITNG) | 18 |
| 19 | EXT (EXISTING) | 20 A | 1 | 800 VA | 541 VA | | | | | 1 | 20 A | 128,131 (EXISITNG) | 20 |
| 21 | COMPUTER (EXISTING) | 20 A | 1 | | | 1200... | 120 VA | | | 1 | 20 A | EMERG LIGHTS (EXISITNG) | 22 |
| 23 | COMPUTER (EXISTING) | 20 A | 1 | | | | | 800 VA | 1324... | 1 | 20 A | NIGHT LIGHTS (EXISITNG) | 24 |
| 25 | COMPUTER (EXISTING) | 20 A | 1 | 800 VA | 0 VA | | | | | 1 | 20 A | Spare | 26 |
| 27 | COMPUTER (EXISTING) | 20 A | 1 | | | 720 VA | 0 VA | | | 1 | 20 A | Spare | 28 |
| 29 | COMPUTER (EXISTING) | 20 A | 1 | | | | | 1200... | 0 VA | 1 | 20 A | Spare | 30 |
| 31 | COMPUTER (EXISTING) | 20 A | 1 | 1200... | 0 VA | | | | | 1 | 20 A | Spare | 32 |
| 33 | COMPUTER (EXISTING) | 20 A | 1 | | | 800 VA | 0 VA | | | 1 | 20 A | Spare | 34 |
| 35 | Power GATE CONTOLLER | 20 A | 1 | | | | | 1080... | 0 VA | 1 | 20 A | Spare | 36 |
| 37 | Space | -- | -- | 0 VA | 0 VA | | | | | -- | -- | Space | 38 |
| 39 | Space | -- | -- | | | 0 VA | 0 VA | | | -- | -- | Space | 40 |
| 41 | Space | -- | -- | | | | | 0 VA | 0 VA | -- | -- | Space | 42 |
| | | **Total Load:** | | 9373 VA | | 9121 VA | | 10406 VA | | | | | |
| | | **Total Amps:** | | 78 A | | 76 A | | 87 A | | | | | |

**Legend:**

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| Spare | 27620 VA | 100.00% | 27820 VA | | |
| Power | 1080 VA | 100.00% | 1080 VA | **Total Conn. Load:** | 28900 VA |
| | | | | **Total Est. Demand:** | 28900 VA |
| | | | | **Total Conn.:** | 80 A |
| | | | | **Total Est. Demand:** | 80 A |

**Notes:**

RECORD DRAWING:

THE SUPPLEMENTAL ENTRIES AND NOTATIONS ON THIS DRAWING INDICATE CHANGES MADE DURING THE CONSTRUCTION PROCESS AS RECORDED BY THE CONTRACTOR AND TRANSFERED TO THE REPRODUCIBLE DRAWINGS BY THE ENGINEER. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR RELIABILITY OF CONTRACTOR PROVIDED INFORMATION.

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XX.XX.XXXX

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208.620.3314

■ Surveyor
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IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500
DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE
3284 INDUSTRIAL LOOP, COEUR D'ALENE, IDAHO 83815

PANEL SCHEDULES

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | MM |
| DRAWN BY | Author |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | WJB |
| REVISION | 05/05/17 |
| SHEET NO. | |

E7.03

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# COMcheck Software Version 4.0.5.5
# Interior Lighting Compliance Certificate

**Project Information**

Energy Code: 2012 IECC
Project Title: DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE
Project Type: Addition

Construction Site:
3284 INDUSTRIAL LOOP
COEUR D'ALENE, ID 83815

Owner/Agent:

Designer/Contractor:
MARK MARTIN
TRINDERA
1875 N LAKEWOOD DRIVE
COEUR D'ALENE, ID 83814
208-676-8001
mmartin@trindera.com

**Allowed Interior Lighting Power**

| A Area Category | B Floor Area (ft2) | C Allowed Watts / ft2 | D Allowed Watts (B X C) |
|---|---|---|---|
| 1-WHOLE BUILDING (Office) | 12086 | 0.85 | 10273 |
| | | Total Allowed Watts = | 10273 |

**Proposed Interior Lighting Power**

| A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast | B Lamps/ Fixture | C # of Fixtures | D Fixture Watt. | E (C X D) |
|---|---|---|---|---|
| 1-WHOLE BUILDING (Office) | | | | |
| LED 1: L01 / L01E: RECESSED 6" DOWNLIGHT: Other: | 1 | 18 | 23 | 414 |
| LED 2: L02: RECESSED 6" SHOWER DOWNLIGHT: Other: | 1 | 4 | 17 | 68 |
| LED 3: L03 / L03E: CHAIN HUNG LED STRIP: Other: | 1 | 9 | 42 | 378 |
| LED 4: L03A: WALL MOUNT LED STRIP: Other: | 1 | 2 | 42 | 84 |
| LED 5: L04: LINEAR DIR/IND PENDANT LED.: Other: | 1 | 1 | 80 | 80 |
| LED 6: L04A: LINEAR DIR/IND PENDANT LED.: Other: | 1 | 1 | 40 | 40 |
| LED 7: L05: SURFACE WALL MOUNTED LINEAR LED: Other: | 1 | 4 | 18 | 72 |
| LED 8: L06 / L06E: RECESSED 2 x 4 DIR/IND: Other: | 1 | 116 | 40 | 4640 |
| LED 9: L06B: RECESSED 2 x 4 DIR/IND: Other: | 1 | 2 | 40 | 80 |
| LED 10: L07 / L07E: RECESSED 2 x 2 DIR/IND: Other: | 1 | 31 | 34 | 1054 |
| LED 11: L08: RECESSED 4" DOWNLIGHT: Other: | 1 | 11 | 13 | 143 |
| LED 12: L11: 6" WIDE LINEAR RECESSED: Other: | 1 | 1 | 68 | 68 |
| | | | Total Proposed Watts = | 7121 |

**Interior Lighting PASSES: Design 31% better than code**

**Interior Lighting Compliance Statement**

*Compliance Statement:* The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2012 IECC requirements in COMcheck Version 4.0.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

MARK MARTIN - ELEC DESIGNER
Name - Title

Signature

05-03-2017
Date

# COMcheck Software Version 4.0.5.5
# Exterior Lighting Compliance Certificate

**Project Information**

Energy Code: 2012 IECC
Project Title: DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE
Project Type: Addition
Exterior Lighting Zone: 2 (Residential mixed use area)

Construction Site:
3284 INDUSTRIAL LOOP
COEUR D'ALENE, ID 83815

Owner/Agent:

Designer/Contractor:
MARK MARTIN
TRINDERA
1875 N LAKEWOOD DRIVE
COEUR D'ALENE, ID 83814
208-676-8001
mmartin@trindera.com

**Allowed Exterior Lighting Power**

| A Area/Surface Category | B Quantity | C Allowed Watts / Unit | D Tradable Wattage | E Allowed Watts (B X C) |
|---|---|---|---|---|
| CANOPIES (Entry canopy) | 279 ft2 | 0.25 | Yes | 70 |
| FACADE LIGHTING (Illuminated length of facade wall or surface) | 2064 ft | 2.5 | No | 5160 |
| PARKING (Parking area) | 34603 ft2 | 0.06 | Yes | 2076 |
| WALKWAYS (Walkway < 10 feet wide) | 540 ft of | 0.7 | Yes | 378 |
| | | | Total Tradable Watts (a) = | 2524 |
| | | | Total Allowed Watts = | 7684 |
| | | | Total Allowed Supplemental Watts (b) = | 600 |

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 600 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

**Proposed Exterior Lighting Power**

| A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast | B Lamps/ Fixture | C # of Fixtures | D Fixture Watt. | E (C X D) |
|---|---|---|---|---|
| CANOPIES ( Entry canopy 279 ft2): Tradable Wattage | | | | |
| LED 1: L09 / L09E: EXTERIOR SLOPED ADJUSTABLE: Other: | 1 | 8 | 16 | 128 |
| LED 2: L12: EXTERIOR MONOPONT: Other: | 1 | 4 | 7 | 28 |
| FACADE LIGHTING ( Illuminated length of facade wall or surface 2064 ft): Non-tradable Wattage | | | | |
| LED 4: L01 / L01E: WALL MOUNT CYLINDER: Other: | 1 | 9 | 23 | 207 |
| LED 6: L10 / L10E: WALL MOUNT SCONCE: Other: | 1 | 10 | 22 | 220 |
| PARKING ( Parking area 34603 ft2): Tradable Wattage | | | | |
| LED 9: S01: SITE POLE TYPE 3: Other: | 1 | 5 | 137 | 685 |
| LED 10: S02: PEDESTRIAN POLE TYPE 5: Other: | 1 | 1 | 73 | 73 |
| LED 11: S03: PEDESTRIAN POLE TYPE 5: Other: | 1 | 4 | 73 | 292 |
| LED 12: S05: SURFACE MOUNT: Other: | 1 | 3 | 124 | 372 |
| WALKWAYS ( Walkway < 10 feet wide 540 ft of walkway length): Tradable Wattage | | | | |
| LED 8: S03: PEDESTRIAN POLE TYPE 5: Other: | 1 | 1 | 73 | 73 |
| | | | Total Tradable Proposed Watts = | 1651 |

**Exterior Lighting PASSES: Design 47% better than code**

**Exterior Lighting Compliance Statement**

*Compliance Statement:* The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2012 IECC requirements in COMcheck Version 4.0.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

MARK MARTIN - ELEC DESIGNER
Name - Title

Signature

05-03-2017
Date

## HEAT TRACE SOUTH-EAST EAVE PARTS LIST

| ID | Description | Part No. | # per package | Order Qty. (NOTE 1) | NOTES |
|---|---|---|---|---|---|
| | PARTS LIST (NOTE 2, 3) | | | | |
| A | GFPD CIRCUIT BREAKERS | NA | NA | 1 | OR APPROVED EQUAL |
| B | CONNECTION WIRE | NA | NA | AS NEEDED | OR APPROVED EQUAL |
| C | HEAT SHRINKABLE SPLICE KIT | FTC-HST | 2 | 2 | OR APPROVED EQUAL |
| D | ROOF ATTACHMENT CLIPS | GMK-RC | 50 | 1 | OR APPROVED EQUAL |
| E | DOWNSPOUT HANGAR | GM-RAKE | 27 | 2 | OR APPROVED EQUAL |
| F | END SEAL | RayClic-E | 27 | 3 | OR APPROVED EQUAL |
| G | UV-RESISTANT CABLE TIE | CT-CABLE-TIE | 100 | AS NEEDED | OR APPROVED EQUAL |
| H | HEATING CABLE | GM-1XT | BY LENGTH (FT) | 110 | OR APPROVED EQUAL |
| I | CONTROLLER | APS-3C | 1 | 1 | OR APPROVED EQUAL |
| J | GIT SENSOR & WIRING | GIT-1 | 1 | 1 | OR APPROVED EQUAL |
| K | CONTACTOR | E304 | 1 | 1 | OR APPROVED EQUAL |

**NOTE 1** - QUANTITIES ARE APPROXIMATE. CONTRACTOR TO PERFORM OWN QUANTITY CALCULATIONS AND ASSUME ALL RESPONSIBILITY FOR COMPLETE INSTALLATION.
**NOTE 2** - WHERE A DISCREPANCY EXISTS BETWEEN DATA SHOWN HERE OR ON OTHER DRAWINGS, THE CONTRACTOR SHALL BID THE MOR
**NOTE 3** - ICESTOP SYSTEM MANUFACTURER'S REPERESENTATIVE IS BRUCE BELL 509.499.5508

**CABLE LENGTH CALCULATIONS**

| HEAT PROTECTED AREA | CABLE LENGTH NEEDED | CIRCUIT CONTRACTOR CONNECTION |
|---|---|---|
| VALLEYS & ROOF-WALL INTERSECTIONS | 0 | - |
| GUTTERS | 75 | P2B2-31 |
| DOWNSPOUTS | 20 | " |
| ROOF DRAINS | 0 | |
| CRICKETS | 0 | |
| EAVES | 11.2 | - |
| 10% SPARE CABLE | 11 | - |
| **HEAT CABLE LENGTH NEEDED (FT)** | 117.2 | |

## HEAT TRACE SOUTH EAVE PARTS LIST

| ID | Description | Part No. | # per package | Order Qty. (NOTE 1) | NOTES |
|---|---|---|---|---|---|
| | PARTS LIST (NOTE 2, 3) | | | | |
| A | GFPD CIRCUIT BREAKERS | NA | NA | 1 | OR APPROVED EQUAL |
| B | CONNECTION WIRE | NA | NA | AS NEEDED | OR APPROVED EQUAL |
| C | HEAT SHRINKABLE SPLICE KIT | FTC-HST | 2 | 2 | OR APPROVED EQUAL |
| D | ROOF ATTACHMENT CLIPS | GMK-RC | 50 | 1 | OR APPROVED EQUAL |
| E | DOWNSPOUT HANGAR | GM-RAKE | 27 | 2 | OR APPROVED EQUAL |
| F | END SEAL | RayClic-E | 27 | 4 | OR APPROVED EQUAL |
| G | UV-RESISTANT CABLE TIE | CT-CABLE-TIE | 100 | AS NEEDED | OR APPROVED EQUAL |
| H | HEATING CABLE | GM-1XT | BY LENGTH (FT) | 80 | OR APPROVED EQUAL |
| I | CONTROLLER | APS-4C | 1 | 1 | OR APPROVED EQUAL |
| J | GIT SENSOR & WIRING | GIT-1 | 1 | 1 | OR APPROVED EQUAL |
| K | CONTACTOR | E304 | 1 | 1 | OR APPROVED EQUAL |

**NOTE 1** - QUANTITIES ARE APPROXIMATE. CONTRACTOR TO PERFORM OWN QUANTITY CALCULATIONS AND ASSUME ALL RESPONSIBILITY FOR COMPLETE INSTALLATION.
**NOTE 2** - WHERE A DISCREPANCY EXISTS BETWEEN DATA SHOWN HERE OR ON OTHER DRAWINGS, THE CONTRACTOR SHALL BID THE MOR
**NOTE 3** - ICESTOP SYSTEM MANUFACTURER'S REPERESENTATIVE IS BRUCE BELL 509.499.5508

**CABLE LENGTH CALCULATIONS**

| HEAT PROTECTED AREA | CABLE LENGTH NEEDED | CIRCUIT CONTRACTOR CONNECTION |
|---|---|---|
| VALLEYS & ROOF-WALL INTERSECTIONS | 0 | - |
| GUTTERS | 45 | P2B2-33 |
| DOWNSPOUTS | 20 | " |
| ROOF DRAINS | 0 | |
| CRICKETS | 0 | |
| EAVES | 11.2 | - |
| 10% SPARE CABLE | 8 | - |
| **HEAT CABLE LENGTH NEEDED (FT)** | 84.2 | |

## HEAT TRACE SOUTH-WEST EAVE PARTS LIST

| ID | Description | Part No. | # per package | Order Qty. (NOTE 1) | NOTES |
|---|---|---|---|---|---|
| | PARTS LIST (NOTE 2, 3) | | | | |
| A | GFPD CIRCUIT BREAKERS | NA | NA | 1 | OR APPROVED EQUAL |
| B | CONNECTION WIRE | NA | NA | AS NEEDED | OR APPROVED EQUAL |
| C | HEAT SHRINKABLE SPLICE KIT | FTC-HST | 2 | 2 | OR APPROVED EQUAL |
| D | ROOF ATTACHMENT CLIPS | GMK-RC | 50 | 1 | OR APPROVED EQUAL |
| E | DOWNSPOUT HANGAR | GM-RAKE | 27 | 2 | OR APPROVED EQUAL |
| F | END SEAL | RayClic-E | 27 | 3 | OR APPROVED EQUAL |
| G | UV-RESISTANT CABLE TIE | CT-CABLE-TIE | 100 | AS NEEDED | OR APPROVED EQUAL |
| H | HEATING CABLE | GM-1XT | BY LENGTH (FT) | 100 | OR APPROVED EQUAL |
| I | CONTROLLER | APS-4C | 1 | 1 | OR APPROVED EQUAL |
| J | GIT SENSOR & WIRING | GIT-1 | 1 | 1 | OR APPROVED EQUAL |
| K | CONTACTOR | E304 | 1 | 1 | OR APPROVED EQUAL |

**NOTE 1** - QUANTITIES ARE APPROXIMATE. CONTRACTOR TO PERFORM OWN QUANTITY CALCULATIONS AND ASSUME ALL RESPONSIBILITY FOR COMPLETE INSTALLATION.
**NOTE 2** - WHERE A DISCREPANCY EXISTS BETWEEN DATA SHOWN HERE OR ON OTHER DRAWINGS, THE CONTRACTOR SHALL BID THE M
**NOTE 3** - ICESTOP SYSTEM MANUFACTURER'S REPERESENTATIVE IS BRUCE BELL 509.499.5508

**CABLE LENGTH CALCULATIONS**

| HEAT PROTECTED AREA | CABLE LENGTH NEEDED | CIRCUIT CONTRACTOR CONNECTION |
|---|---|---|
| VALLEYS & ROOF-WALL INTERSECTIONS | 0 | - |
| GUTTERS | 60 | P2B2-35 |
| DOWNSPOUTS | 20 | " |
| ROOF DRAINS | 0 | |
| CRICKETS | 0 | |
| EAVES | 11.2 | - |
| 10% SPARE CABLE | 10 | - |
| **HEAT CABLE LENGTH NEEDED (FT)** | 101.2 | |

## HEAT TRACE NORTH-EAST EAVE PARTS LIST

| ID | Description | Part No. | # per package | Order Qty. (NOTE 1) | NOTES |
|---|---|---|---|---|---|
| | PARTS LIST (NOTE 2, 3) | | | | |
| A | GFPD CIRCUIT BREAKERS | NA | NA | 1 | OR APPROVED EQUAL |
| B | CONNECTION WIRE | NA | NA | AS NEEDED | OR APPROVED EQUAL |
| C | HEAT SHRINKABLE SPLICE KIT | FTC-HST | 2 | 2 | OR APPROVED EQUAL |
| D | ROOF ATTACHMENT CLIPS | GMK-RC | 50 | 1 | OR APPROVED EQUAL |
| E | DOWNSPOUT HANGAR | GM-RAKE | 27 | 2 | OR APPROVED EQUAL |
| F | END SEAL | RayClic-E | 27 | 3 | OR APPROVED EQUAL |
| G | UV-RESISTANT CABLE TIE | CT-CABLE-TIE | 100 | AS NEEDED | OR APPROVED EQUAL |
| H | HEATING CABLE | GM-1XT | BY LENGTH (FT) | 110 | OR APPROVED EQUAL |
| I | CONTROLLER | APS-4C | 1 | 1 | OR APPROVED EQUAL |
| J | GIT SENSOR & WIRING | GIT-1 | 1 | 1 | OR APPROVED EQUAL |
| K | CONTACTOR | E304 | 1 | 1 | OR APPROVED EQUAL |

**NOTE 1** - QUANTITIES ARE APPROXIMATE. CONTRACTOR TO PERFORM OWN QUANTITY CALCULATIONS AND ASSUME ALL RESPONSIBILITY FOR COMPLETE INSTALLATION.
**NOTE 2** - WHERE A DISCREPANCY EXISTS BETWEEN DATA SHOWN HERE OR ON OTHER DRAWINGS, THE CONTRACTOR SHALL BID THE MORE
**NOTE 3** - ICESTOP SYSTEM MANUFACTURER'S REPERESENTATIVE IS BRUCE BELL 509.499.5508

**CABLE LENGTH CALCULATIONS**

| HEAT PROTECTED AREA | CABLE LENGTH NEEDED | CIRCUIT CONTRACTOR CONNECTION |
|---|---|---|
| VALLEYS & ROOF-WALL INTERSECTIONS | 0 | - |
| GUTTERS | 75 | P2B2-29 |
| DOWNSPOUTS | 20 | " |
| ROOF DRAINS | 0 | |
| CRICKETS | 0 | |
| EAVES | 11.2 | - |
| 10% SPARE CABLE | 11 | - |
| **HEAT CABLE LENGTH NEEDED (FT)** | 117.2 | |

## HEAT TRACE NORTH EAVE PARTS LIST

| ID | Description | Part No. | # per package | Order Qty. (NOTE 1) | NOTES |
|---|---|---|---|---|---|
| | PARTS LIST (NOTE 2, 3) | | | | |
| A | GFPD CIRCUIT BREAKERS | NA | NA | 1 | OR APPROVED EQUAL |
| B | CONNECTION WIRE | NA | NA | AS NEEDED | OR APPROVED EQUAL |
| C | HEAT SHRINKABLE SPLICE KIT | FTC-HST | 2 | 3 | OR APPROVED EQUAL |
| D | ROOF ATTACHMENT CLIPS | GMK-RC | 50 | 1 | OR APPROVED EQUAL |
| E | DOWNSPOUT HANGAR | GM-RAKE | 27 | 3 | OR APPROVED EQUAL |
| F | END SEAL | RayClic-E | 27 | 5 | OR APPROVED EQUAL |
| G | UV-RESISTANT CABLE TIE | CT-CABLE-TIE | 100 | AS NEEDED | OR APPROVED EQUAL |
| H | HEATING CABLE | GM-1XT | BY LENGTH (FT) | 120 | OR APPROVED EQUAL |
| I | CONTROLLER | APS-4C | 1 | 1 | OR APPROVED EQUAL |
| J | GIT SENSOR & WIRING | GIT-1 | 1 | 1 | OR APPROVED EQUAL |
| K | CONTACTOR | E304 | 1 | 1 | OR APPROVED EQUAL |

**NOTE 1** - QUANTITIES ARE APPROXIMATE. CONTRACTOR TO PERFORM OWN QUANTITY CALCULATIONS AND ASSUME ALL RESPONSIBILITY FOR COMPLETE INSTALLATION.
**NOTE 2** - WHERE A DISCREPANCY EXISTS BETWEEN DATA SHOWN HERE OR ON OTHER DRAWINGS, THE CONTRACTOR SHALL BID THE MOR
**NOTE 3** - ICESTOP SYSTEM MANUFACTURER'S REPERESENTATIVE IS BRUCE BELL 509.499.5508

**CABLE LENGTH CALCULATIONS**

| HEAT PROTECTED AREA | CABLE LENGTH NEEDED | CIRCUIT CONTRACTOR CONNECTION |
|---|---|---|
| VALLEYS & ROOF-WALL INTERSECTIONS | 0 | - |
| GUTTERS | 80 | P2B2-27 |
| DOWNSPOUTS | 30 | " |
| ROOF DRAINS | 0 | |
| CRICKETS | 0 | |
| EAVES | 11.2 | - |
| 10% SPARE CABLE | 13 | - |
| **HEAT CABLE LENGTH NEEDED (FT)** | 134.2 | |

## HEAT TRACE NORTH-WEST EAVE PARTS LIST

| ID | Description | Part No. | # per package | Order Qty. (NOTE 1) | NOTES |
|---|---|---|---|---|---|
| | PARTS LIST (NOTE 2, 3) | | | | |
| A | GFPD CIRCUIT BREAKERS | NA | NA | 1 | OR APPROVED EQUAL |
| B | CONNECTION WIRE | NA | NA | AS NEEDED | OR APPROVED EQUAL |
| C | HEAT SHRINKABLE SPLICE KIT | FTC-HST | 2 | 2 | OR APPROVED EQUAL |
| D | ROOF ATTACHMENT CLIPS | GMK-RC | 50 | 1 | OR APPROVED EQUAL |
| E | DOWNSPOUT HANGAR | GM-RAKE | 27 | 2 | OR APPROVED EQUAL |
| F | END SEAL | RayClic-E | 27 | 3 | OR APPROVED EQUAL |
| G | UV-RESISTANT CABLE TIE | CT-CABLE-TIE | 100 | AS NEEDED | OR APPROVED EQUAL |
| H | HEATING CABLE | GM-1XT | BY LENGTH (FT) | 120 | OR APPROVED EQUAL |
| I | CONTROLLER | APS-4C | 1 | 1 | OR APPROVED EQUAL |
| J | GIT SENSOR & WIRING | GIT-1 | 1 | 1 | OR APPROVED EQUAL |
| K | CONTACTOR | E304 | 1 | 1 | OR APPROVED EQUAL |

**NOTE 1** - QUANTITIES ARE APPROXIMATE. CONTRACTOR TO PERFORM OWN QUANTITY CALCULATIONS AND ASSUME ALL RESPONSIBILITY FOR COMPLETE INSTALLATION.
**NOTE 2** - WHERE A DISCREPANCY EXISTS BETWEEN DATA SHOWN HERE OR ON OTHER DRAWINGS, THE CONTRACTOR SHALL BID THE M
**NOTE 3** - ICESTOP SYSTEM MANUFACTURER'S REPERESENTATIVE IS BRUCE BELL 509.499.5508

**CABLE LENGTH CALCULATIONS**

| HEAT PROTECTED AREA | CABLE LENGTH NEEDED | CIRCUIT CONTRACTOR CONNECTION |
|---|---|---|
| VALLEYS & ROOF-WALL INTERSECTIONS | 0 | - |
| GUTTERS | 85 | P2B2-25 |
| DOWNSPOUTS | 20 | " |
| ROOF DRAINS | 0 | |
| CRICKETS | 0 | |
| EAVES | 11.2 | - |
| 10% SPARE CABLE | 12 | - |
| **HEAT CABLE LENGTH NEEDED (FT)** | 128.2 | |

RECORD DRAWING:
THE SUPPLEMENTAL ENTRIES AND NOTATIONS ON THIS DRAWING INDICATE CHANGES MADE DURING THE CONSTRUCTION PROCESS AS RECORDED BY THE CONTRACTOR AND TRANSFERED TO THE REPRODUCIBLE DRAWINGS BY THE ENGINEER. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR RELIABILITY OF CONTRACTOR PROVIDED INFORMATION.

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7825 MEADOWLARK WAY
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208.672.8787

# IDAHO DEPARTMENT OF LANDS DPW PROJECT # 17-500
## DEMO MICA AREA OFFICE & EXPAND CDA STAFF OFFICE
## 3284 INDUSTRIAL LOOP, COEUR D'ALENE, IDAHO, 83814
## ENERGY CODE COMPLIANCE - HEAT TRACE SCHEDULES

| | |
|---|---|
| PROJECT NO. | 1658 |
| DESIGNED BY | AW / MWM |
| DRAWN BY | MWM |
| ISSUE DATE | 08.27.2018 |
| PHASE | CLOSEOUT |
| CHECKED BY | WJB |
| REVISION | RECORD SET |
| SHEET NO. | E7.04 |

JOHNSON BARROW

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Coquitlam, BC V3B 7B1

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Boise, ID 83713

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801 W. Riverside Ave., STE 512
Spokane, WA 99201

# EXHIBIT "C"

Site Evaluation with JCI for: Idaho Department of Lands
3284 Industrial Loop, Coeur d'Alene, ID 83815
Prepared by Dan Hurst 11.3.25
509-808-0196
Dhurst@jbarrow.com

I met with Steven Carlson and Brendan Hill of JCI to discuss the problems that system was having, what has been done and advise corrective action. I was told that both Multi V 5 outdoor units have had the coils replaced due to leaks and all three compressors have been replaced either by JCI or a previous service provider. The sub-unit had recently had the single compressor replaced. The Main unit had CH26 error codes on both compressors 1 and 2 so JCI had disabled compressor operation. I advised not running the system at all or to plan on replacing all three compressors at the same time along with making necessary system piping corrections. They said that they were considering replacing the ODUs if the appropriate replacements were available. I told them that they would need to have a discussion with Tanner about product availability. We did an evaluation walk to spot check and document what was found on the existing installation. During our evaluation walk I found numerous deficiencies that did not fall in compliance with the LG IOM. HP-2 and HP-3 are the same system typical twin chassis installation. JCI is working on an evaluation based upon our discussion building wide. They will be measuring out line lengths and 90's in the system. I also advised spot checking line sizes as they go and update to get a corrected LATs trim charge calculation. I helped Steven and Brendan get the LG HVAC Service App for troubleshooting and to test compressors and inverter PCB boards to see what needs to be replaced and if the board readings are still withing tolerance. The following is what was seen while on site with some references for corrective action. We did not look at the entirety of the building installation however I believe this is a good example of the existing installation practice and deficiencies that are likely unseen as well.

LG
HEAT PUMP
POMPE À CHALEUR
MODEL/MODÈLE ARUM216BTE5
208/230 V 60 Hz 3 Ph
MAX. FUSE or CKT.BKR. FUSIBLE MAX. ou DISJONCTEUR MAX. 80.0 A
MINIMUM CIRCUIT AMPACITY COURANT ADMISSIBLE MINIMAL DU CIRCUIT 60.3 A
REFRIGERANT FACTORY CHARGED RÉFRIGÉRANT R410A 37.5 lbs
DESIGN PRESSURE(H/L) PRESSION DE CALCUL(H/B) 450 / 240 psig
AC.L.S OUTDOOR USE UTILISATION EN EXTÉRIEUR
MADE IN KOREA FABRIQUÉ EN CORÉE
CURRENT COURANT
TOTAL 54.2 A
COMPRESSOR A/B/C 24.3 / 21.9 / - A
FAN MOTOR (A/B) 4.0 / 4.0 A
COMPRESSOR LOCKED ROTOR AMPS(A/B/C) - A
AHRI CERTIFIED
www.ahridirectory.org
Variable Refrigerant Flow (VRF) Multi-Split AC and HP
AHRI Standard 1230
CONFORMS TO ANSI/UL STD 1995
CERTIFIED TO CAN/CSA STD C22.2 NO. 236
3091879
Intertek
Short-circuit current:
5kA rms symmetrical, 208 / 230V maximum
WARNING-RISK OF ELECTRIC SHOCK. DISCONNECT ALL POWER BEFORE SERVICING.
AVERTISSEMENT-RISQUE DE DÉCHARGE ÉLECTRIQUE. DÉCONNECTEZ L'ALIMENTATION AVANT TOUTE INTERVENTION.
CAUTION-MOVING PARTS DO NOT OPERATE UNIT WITH GRILLE REMOVED
ATTENTION-PIÈCES MOBILES. NE FAITES PAS FONCTIONNER L'UNITÉ SI LA GRILLE EST RETIRÉE
ARUM216BTE5
AWGBLUS
SERIAL NO.710KCLH0SW92 10.2017
38199-7100SW92-C71JJL 701M06MS
HP-3
HEAT PUMP SERVING FAN

LG
HEAT PUMP
POMPE À CHALEUR
MODEL/MODÈLE
ARUM121BTE5
208/230 V 60 Hz 3 Ph
MAX. FUSE or CKT.BKR.
FUSIBLE MAX. ou DISJONCTEUR MAX.
40.0 A
MINIMUM CIRCUIT AMPACITY
COURANT ADMISSIBLE MINIMAL DU CIRCUIT
30.9 A
REFRIGERANT FACTORY CHARGED
R410A 23.2 lbs
DESIGN PRESSURE(H/L)
PRESSION DE CALCUL(H/B)
450 / 240 PSIG
AC L S
OUTDOOR USE
UTILISATION EN EXTÉRIEUR
MADE IN KOREA
FABRIQUE EN CORÉE
CURRENT
COURANT
TOTAL
26.3 A
COMPRESSOR A/B/C
FAN MOTOR (A/B)
18.3 / - / -
4.0 / 4.0 A
COMPRESSOR LOCKED ROTOR AMPS(A/B/C)
- A
AHRI CERTIFIED
www.ahridirectory.org
Variable Refrigerant Flow (VRF) Multi-Split AC and HP
AHRI Standard 1230
CONFORMS TO
ANSI/UL STD 1995
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CAUTION-MOVING PARTS. DO NOT OPERATE UNIT
WITH GRILLE REMOVED.
ATTENTION-PIÈCES MOBILES. NE FAITES PAS
FONCTIONNER L'UNITÉ SI LA GRILLE EST RETIRÉE.
ARUM121BTE5
AWGBLUS
SERIAL NO.710KCZP0ST73 10.2017
38195 – 7100ST73 – C71JJE 701M06MR
HP–2
HEAT PUMP SERVING FAN COILS

Found that both chassis were connected to I-beam support fame with beam clamps and no vibration isolation pad(s). No base pan heaters are installed. Units are very low to the ground. I would advise checking the minimum height per local code for this. Typically I see units mounted 18”-24” off the ground for defrost considerations and snow clearance.

JOHNSON BARROW

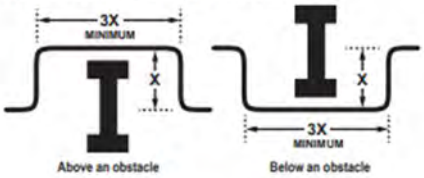
Beam clamps are used to attach units to the I-beam frame they sit on/

Missing and inadequate insulation. Improper pipe support and improper pipe clamps. Y branches are not level.

## Obstacles

When an obstacle, such as an I-beam or concrete T, is in the path of the planned refrigerant pipe run, it is best practice to route the pipe over the obstacle. If adequate space is not available to route the insulated pipe over the obstacle, then route the pipe under the obstacle. In either case, it is imperative the length of the horizontal section of pipe above or below the obstacle be a minimum of three (3) times the longest vertical rise (or fall) at either end of the segment.

Figure 32: Installing Piping Above and Below an Obstacle.




## Pipe Supports

A properly installed pipe system must be adequately supported to avoid pipe sagging. Sagging pipes become oil traps that lead to equipment malfunction.

Pipe supports must never touch the pipe wall; supports must be installed outside (around) the primary pipe insulation jacket. Insulate the pipe first because pipe supports must be installed outside (around) the primary pipe insulation jacket. Clevis hangers must be used with shields between the hangers and insulation. Field provided pipe supports must be designed to meet local codes. If allowed by code, use fiber straps or split-ring hangers suspended from the ceiling on all-thread rods (fiber straps or split ring hangers can be used as long as they do not compress the pipe insulation). Place a second layer of insulation over the pipe insulation jacket to prevent chafing and compression of the primary insulation in the confines of the support clamp.

A properly installed pipe system will have sufficient supports to avoid pipes from sagging during the life of the system. As necessary, place supports closer for segments where potential sagging could occur. Maximum spacing of pipe supports must meet local codes. If local codes do not specify pipe support spacing, pipe must be supported:

- Maximum of five (5) feet on center for straight segments of pipe up to 3/4 inches outside diameter size.
- Maximum of six (6) feet on center for pipe up to one (1) inch outside diameter size.
- Maximum of eight (8) feet on center for pipe up to two (2) inches outside diameter size.

Wherever the pipe changes direction, place a hanger within twelve (12) inches on one side and within twelve (12) to nineteen (19) inches of the bend on the other side. Support piping at indoor units, Y-branch, and Header fittings as shown.

Figure 33: Pipe Hanger Details.

***Note:***
*Use a 4" + long sheet curved sheet metal saddles between hanger bracket and insulation to promote linear expansion/contraction.*

Figure 34: Typical Pipe Support Location—Change in Pipe Direction.

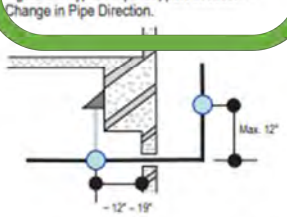



Figure 35: Pipe Support at Indoor Unit.

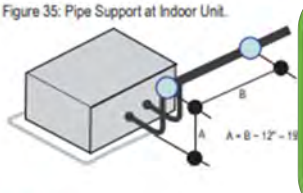



Figure 36: Pipe Support at Y-branch Fitting.

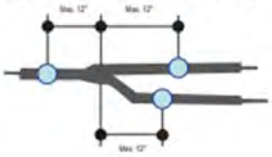
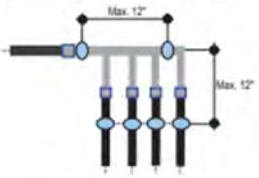



Figure 37: Pipe Support at Header Fitting.



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# INSTALLING FOR HEAT PUMP OPERATION

MULTI V 5 WITH LGRED®

## Outdoor Unit Y-Branch Kits

**⃠ No Substitutions on Piping Components**

**Only LG supplied Y-branch and Header fittings can be used to join one pipe segment to two or more segments. ⃠ Third-party or field-fabricated components such as tee's, Y-fittings, couplings, headers, or other branch fittings are not permitted. The only field-provided fittings allowed in a Multi V piping system are 45° and 90° long radius elbows and full port ball valves (if applicable).**

### Outdoor Unit Y-Branches

Outdoor unit Y-branches can only be installed in a horizontal or vertical UP configuration.

**⃠ The vertical DOWN configuration is not permitted.**

When installed vertically, position the Y-branch at a level lower than the outdoor units it serves, so the straight-through leg is within ±3° of plumb. When installed horizontally, the straight-through leg must be level, and the branch leg must be within ±5° of horizontal rotation.

Outdoor unit Y-branches must always be installed with the two port ends connected to the piping coming from the outdoor units, and the single port end towards the indoor unit refrigerant piping system supporting the indoor units. Outdoor unit Y-branches are usually installed close to the outdoor unit, leaving enough space for servicing and maintenance.

Figure 38: Indoor Unit Y-Branch Horizontal Configuration.

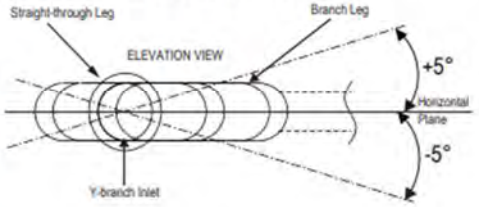



Figure 39: Indoor Unit Y-branch Vertical Installation Alignment Specifications.

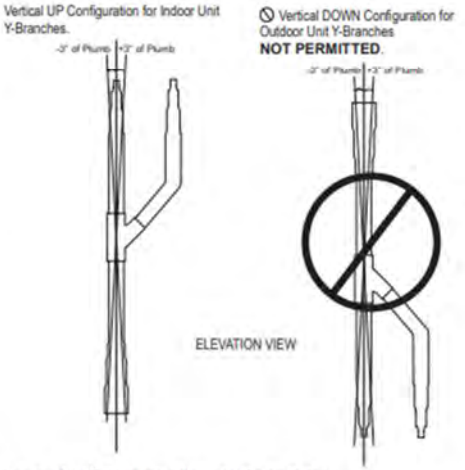



Figure 40: Diagram of an Incorrect Outdoor Unit Y-branch Installation.

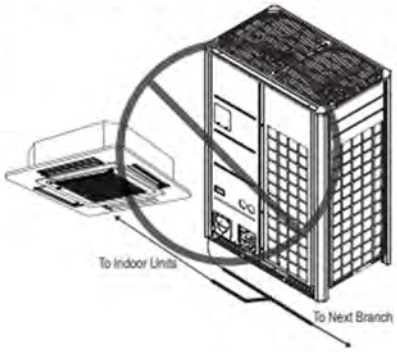
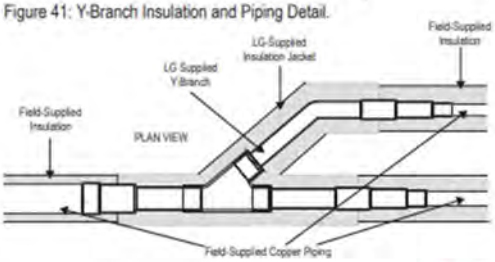



Figure 41: Y-Branch Insulation and Piping Detail.



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## Note:

- ⃠ *Do not insulate gas and liquid pipes together as this can result in pipe leakage and malfunction due to extreme temperature fluctuations.*
- *Always properly insulate the piping. Insufficient insulation will result in condensation, reduced heating/cooling performance, etc. Also, if the pipes aren't insulated properly, condensation could potentially cause damage to building finishes. Pay special attention to insulating the pipes installed in the ceiling plenum.*
- *Fully insulate the piping connections.*
- *Follow locals codes and the designer's instructions when selecting ethylene propylene diene methylene (EPDM) insulation wall thickness.*

Table 49: Minimum Refrigerant Pipe EPDM Insulation Wall Thickness Requirements.[1]

| Classification / Piping O.D. | | Air-conditioned location | | Non-air conditioned location | |
|---|---|---|---|---|---|
| | | 1. Typical Conditioned Location | 2. Special Conditioned Location | 3. Typical Unconditioned Location | 4. Special Unconditioned Location |
| Liquid pipe | ø1/4 inches | >1/2 inches | >1/2 inches | >1/2 inches | >1/2 inches |
| | ø3/8 inches | | | | |
| | ≥ø1/2 inches | >1/2 inches | >1/2 inches | >1/2 inches | >1/2 inches |
| Vapor pipe | ø3/8 inches | >1/2 inches | >3/4 inches | >3/4 inches | >1 inch |
| | ø1/2 inches | | | | |
| | ø5/8 inches | | | | |
| | ø3/4 inches | | | | |
| | ø7/8 inches | | | | |
| | ø1 inch | | | | |
| | ø1-1/8 inches | >3/4 inches | >1 inch | >1 inch | |
| | ø1-1/4 inches | | | | |
| | ø1-3/8 inches | | | | |
| | ø1-1/2 inches | | | | |
| | ø1-3/4 inches | | | | |

[1] *The thickness of the above insulation material is based on heat conductivity of 0.61 Btu/in/h/ft²/°F.*

### 1. Typical Conditioned Location

A building plenum or space that contains conditioned air that does not exceed 80°F DB.

### 2. Special Conditioned Location

1. When the location is air conditioned, but there is severe temperature/humidity difference due to high ceilings.
   - Church, auditorium, theater, lobby, etc.
2. When the location is air conditioned, but internal temperature/humidity are high.
   - Bathroom, swimming pool, locker room, etc.

### 3. Typical Unconditioned Location

An unconditioned space inside a building.

### 4. Special Unconditioned Location: If conditions 1 and 2 below are present.

1. An unconditioned space or plenum of a building.
2. An area where there is an elevated humidity level.

### 5. Additional Insulation for Indoor Units Will be Required in Humid Environments.

The air conditioner factory insulation has been tested according to "ISO Conditions with Mist," and it satisfies the requirements. If the system has been operating for a long time in a high humidity environment (dew point temperature: more than 73°F), condensate is likely to form. If this happens, install 3/8 inch thick EPDM insulation that is plenum-rated with a heat-resistance factor of more than 248°F.



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Inverted traps are required as it is over 6.6” from the center of the Y-branch to the valve braze connection point on the ODU. Measures out at 5’+ from the Y-branch to the 90 and an additional 2’ from the 90 to the unit valves. Additionally, the piping appears to slope down to the second (sub) unit. This should be verified and corrected as needed adhering to the “pipe slope” section. Missing and inadequate insulation observed. Insulation should be 1” wall thickness and have no air gaps and UV protected to prevent degradation.

HP-2

Technical Academy
55
56
57
58
59

# REFRIGERANT PIPING FOR SEPARATED OUTDOOR UNITS



2. Inverted traps are required when:
   a. Piping in a horizontal direction from the outdoor Y-branch towards an outdoor unit or another outdoor unit Y-branch is greater than 6.6'.
   The inverted trap must be installed close to the outdoor unit Y-branch (no more than 6.6' away).
   b. Anytime piping turns downward leaving an outdoor unit Y-branch toward an outdoor unit or another outdoor unit Y-branch.
   The inverted trap must be installed close to the outdoor unit Y-branch (no more than 6.6' away), and before the pipe toward the outdoor unit turns downward.

Figure 91: Examples of Inverted Traps.

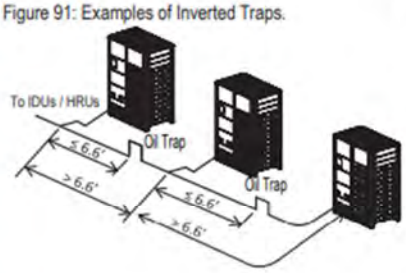
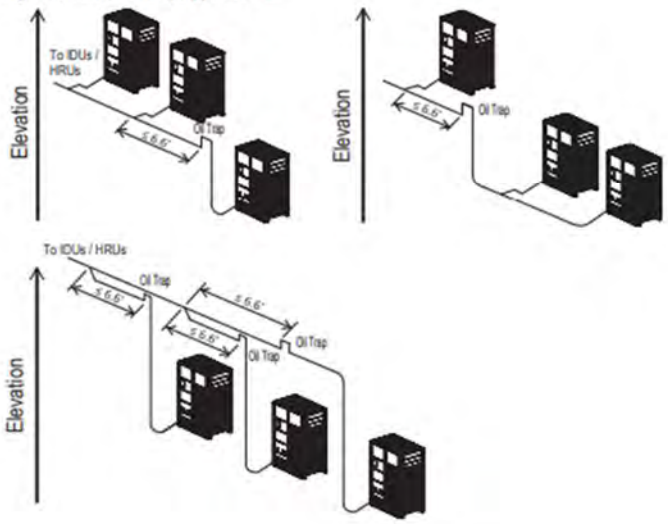


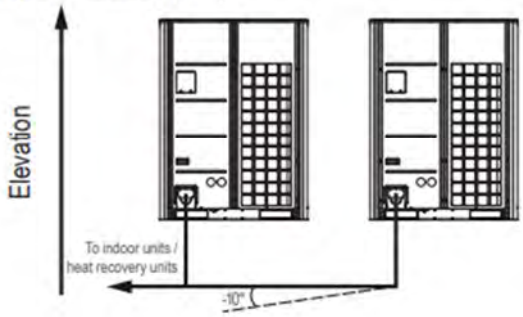

Figure 92: Inverted Trap Applications.




## Pipe Slope

Horizontal pipe slope must be level or slightly away from the outdoor units, otherwise refrigerant and oil will migrate toward the outdoor units and accumulate in the pipe segment serving the frame that is not running or at the lowest elevation. Piping must ⃠ never slope more than -10° (see figure) without installing an inverted trap within 6.6' of the outdoor unit Y-branch and before the pipe slopes downward toward the outdoor unit.

Figure 93: Allowable Pipe Slope.





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# REFRIGERANT PIPING FOR SEPARATED OUTDOOR UNITS



Dual-frame and triple-frame systems must be installed with all outdoor units located next to each other. In conditions where the dual-frame or triple-frame outdoor units need to be separated, the following rules must be followed (rules ⃠ do not apply to single-frame outdoor units):

1. Measurements.

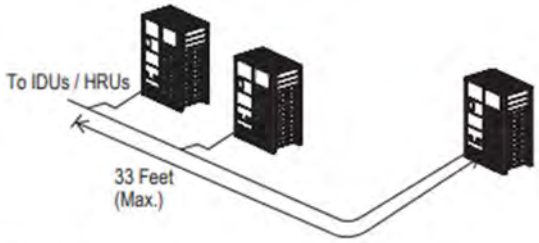
All measurements must be made from the union center of the outdoor unit Y-branch.

Figure 86: Y-branch Measurement Location.

2. Maximum pipe length from first outdoor unit Y-branch to farthest outdoor unit.

Total pipe length from the first outdoor unit Y-branch to the piping connection at the farthest outdoor unit must not exceed thirty-three (33) feet.

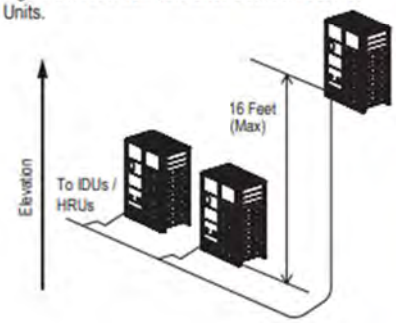
Figure 87: Maximum Pipe Length from First Outdoor Unit Y-branch to Farthest Outdoor Unit.




3. Elevation difference between outdoor units.

The elevation difference between the highest and lowest elevation outdoor unit must not exceed sixteen (16) feet.

Figure 88: Elevation Difference Between Outdoor Units.




## Trapping

1. When required, all traps must be inverted type traps ≥8" in the vapor line(s).

   **a. Heat pump outdoor units would be trapped in the suction vapor line, and heat recovery outdoor units would be trapped in the high AND low pressure vapor lines.**

   b. Inverted traps are defined as any piping that is ≥8" in a vertical direction up the horizontal pipe it elevates from.

Figure 89: Traps for Heat Pump and Heat Recovery Systems

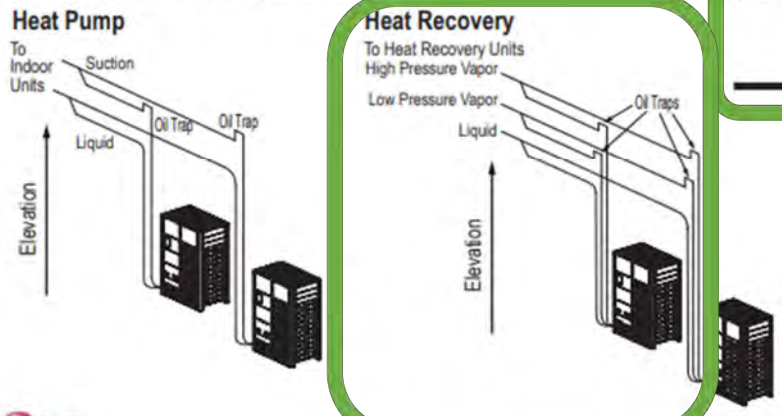
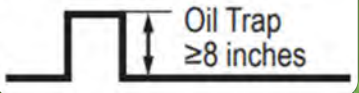



Figure 90: Close Up of An Inverted Oil Trap.

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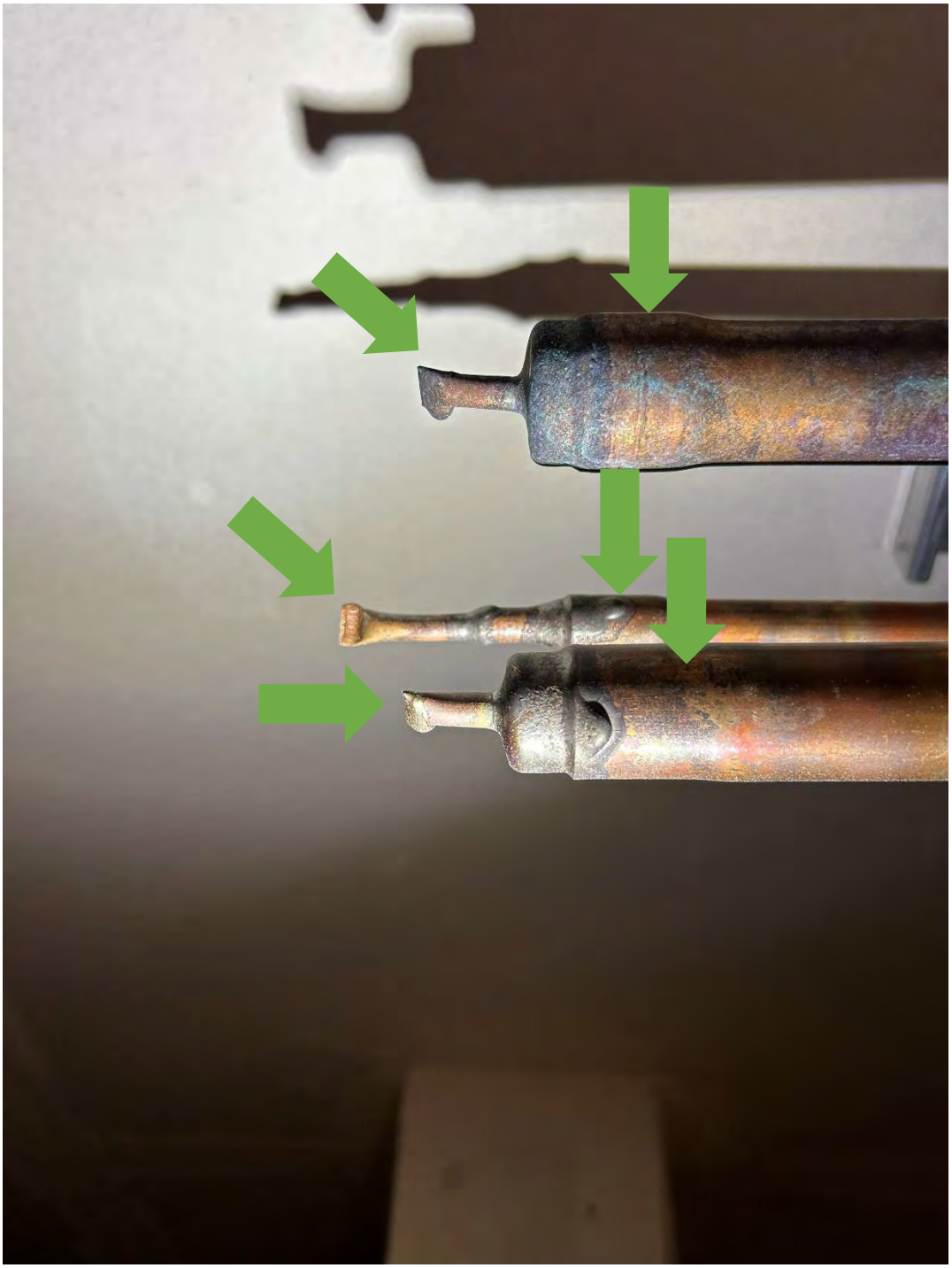
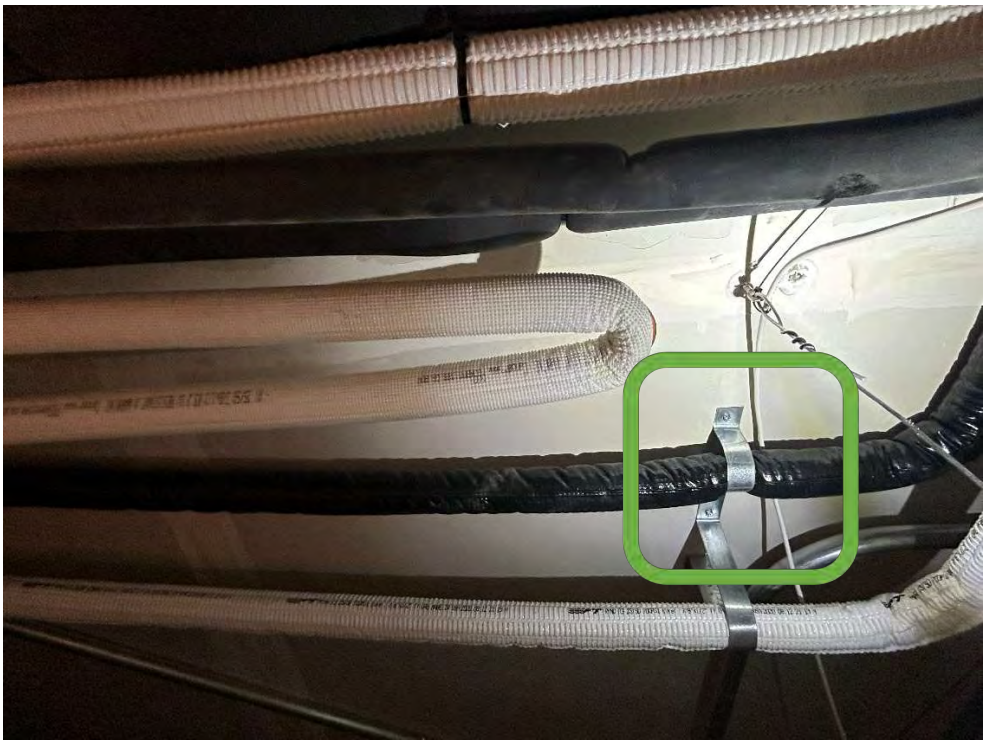
Missing supports for the Y-branches, 20” rule violations and air gaps in pipe insulation.



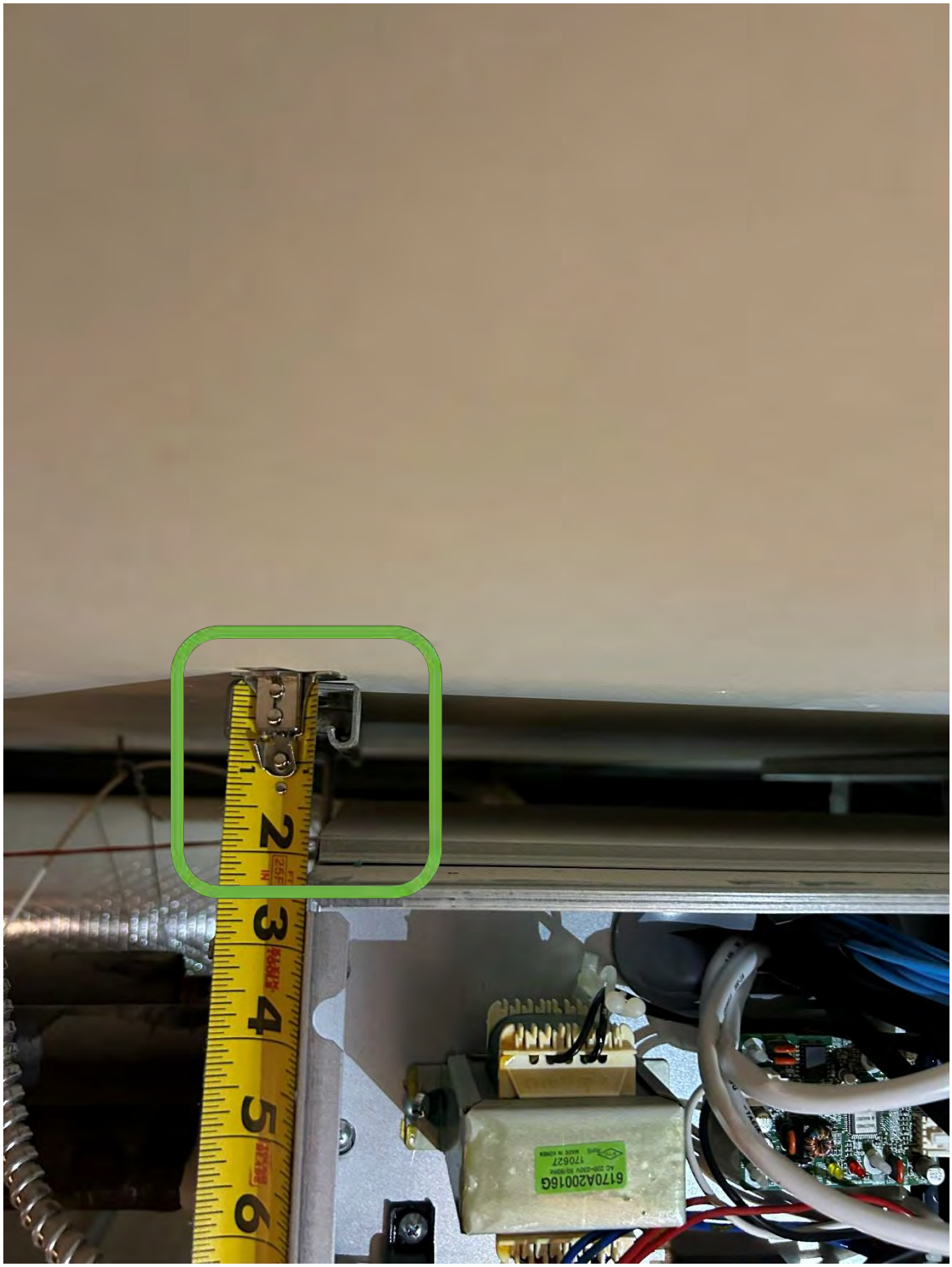
Factory stems left in place the main part of the lines should be cut and have a refrigeration rated cap brazed in place and insulation over lines tight to the HRU.

20” Rule violation



Pipe insulation being compressed

Pipe insulation should be tight to the side of the Heat Recover Unit (HRU)

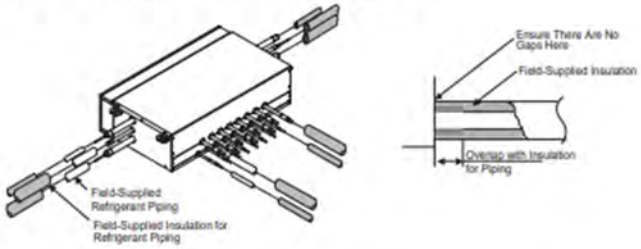



HRU Minimum service clearance is not observed in current installation. It should be a minimum of 4” for service access

## Insulation on Heat Recovery Unit Ports

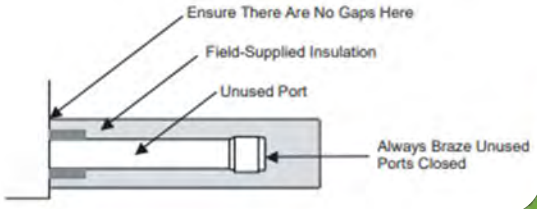
All ports and all connected piping to and from the heat recovery units must be completely insulated. Insulation must comply with all applicable local, state, and federal codes.

Figure 102: Insulating Heat Recovery Unit Piping and Ports.




***Note:***
*On whichever port or pipe not used, the factory-provided cap must be removed, and that port / pipe must be recapped and completely insulated.*

Figure 103: Preparing Unused Heat Recovery Unit Ports.





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# PLACEMENT CONSIDERATIONS

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Selecting the Best Location / Clearance Requirements for the Heat Recovery Unit(s)

## Selecting the Best Location / Clearance Requirements

***Note:***

*Heat recovery units are for use with systems designed for heat recovery operation only.*

Select an installation space for the heat recovery unit that meets the following conditions:

- Install the heat recovery unit indoors in a level and upright position.
- Ensure there is enough space in the installation area for service access.
- Install the heat recovery unit in a location where any sound it may generate will not disturb occupants in the surrounding rooms.
- Install the refrigerant piping and electrical wiring system in an easily accessible location.

**Dont's**

- *Refrigerant pipes must not exceed lengths specified by LG Electronics.*
- *Do not install the heat recovery unit in a location where it would be subjected to strong radiation heat from heat sources.*
- *Avoid an installation environment where oil splattering or vapor spray may occur.*
- *Avoid an installation environment where high-frequency electric noise could occur.*
- *Condensate drain piping is not required.*

Figure 9: PRHR023A to 043A Clearance Requirements.

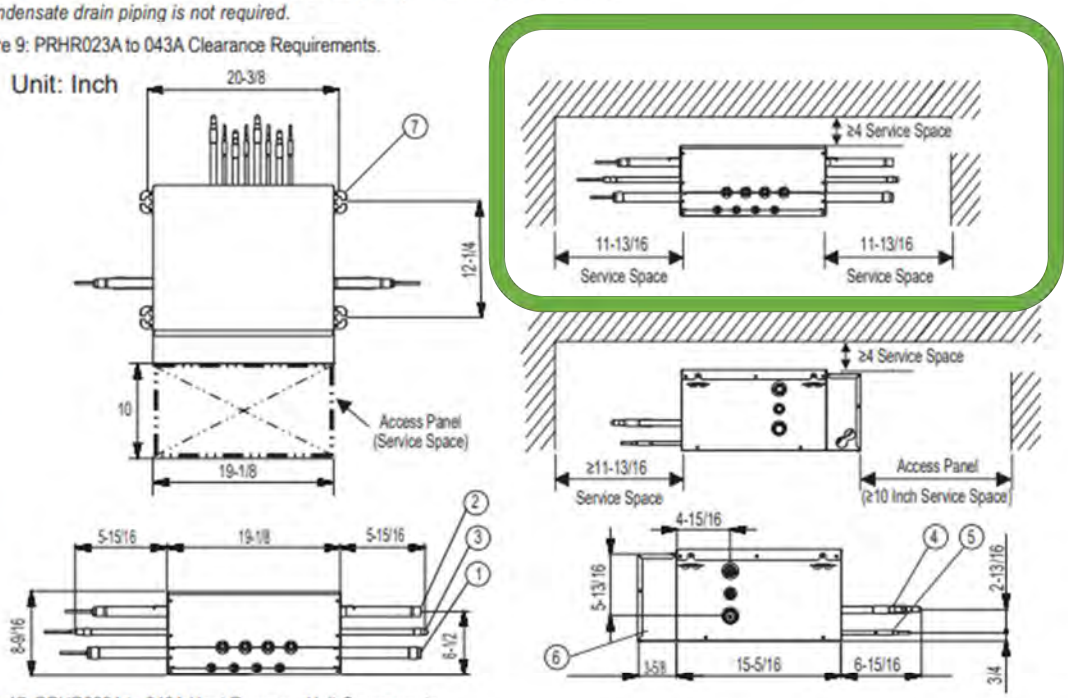


Table 17: PRHR023A to 043A Heat Recovery Unit Components.

| No. | Component Name | Connection Size (in.) / Type | | |
|---|---|---|---|---|
| | | PRHR023A | PRHR033A | PRHR043A |
| 1 | Low Pressure Vapor Pipe Connection Port | 7/8 Braze | 1-1/8 Braze | 1-1/8 Braze |
| 2 | High Pressure Vapor Pipe Connection Port | 3/4 Braze | 7/8 Braze | 7/8 Braze |
| 3 | Liquid Pipe Connection Port | 3/8 Braze | 1/2 Braze | 5/8 Braze |
| 4 | Indoor Unit Vapor Pipe Connection Port | 5/8 Braze | 5/8 Braze | 5/8 Braze |
| 5 | Indoor Unit Liquid Pipe Connection Port | 3/8 Braze | 3/8 Braze | 3/8 Braze |
| 6 | Control Box | – | – | – |
| 7 | Metal Hanger Bracket (Field-Supplied Suspension Bolt) | 5/16 or 7/16 | 5/16 or 7/16 | 5/16 or 7/16 |



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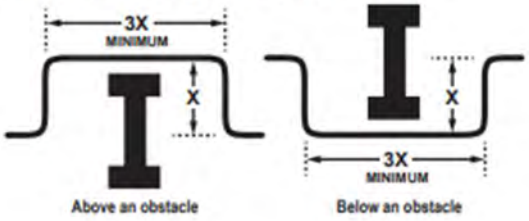
LG

## Obstacles

When an obstacle, such as an I-beam or concrete T, is in the path of the planned refrigerant pipe run, it is best practice to route the pipe over the obstacle. If adequate space is not available to route the insulated pipe over the obstacle, then route the pipe under the obstacle. In either case, it is imperative the length of the horizontal section of pipe above or below the obstacle be a minimum of three (3) times the longest vertical rise (or fall) at either end of the segment.

Figure 26: Installing Piping Above and Below an Obstacle.




## Pipe Supports

A properly installed pipe system must be adequately supported to avoid pipe sagging. Sagging pipes become oil traps that lead to equipment malfunction.

Pipe supports must ⊘ never touch the pipe wall; supports must be installed outside (around) the primary pipe insulation jacket. Insulate the pipe first because pipe supports must be installed outside (around) the primary pipe insulation jacket. Clevis hangers must be used with shields between the hangers and insulation. Field provided pipe supports must be designed to meet local codes. If allowed by code, use fiber straps or split-ring hangers suspended from the ceiling on all-thread rods (fiber straps or split ring hangers can be used as long as they do not compress the pipe insulation). Place a second layer of insulation over the pipe insulation jacket to prevent chafing and compression of the primary insulation in the confines of the support clamp.

A properly installed pipe system will have sufficient supports to avoid pipes from sagging during the life of the system. As necessary, place supports closer for segments where potential sagging could occur. Maximum spacing of pipe supports must meet local codes. If local codes do not specify pipe support spacing, pipe must be supported:

- Maximum of five (5) feet on center for straight segments of pipe up to 3/4 inches outside diameter size.
- Maximum of six (6) feet on center for pipe up to one (1) inch outside diameter size.
- Maximum of eight (8) feet on center for pipe up to two (2) inches outside diameter size.

Wherever the pipe changes direction, place a hanger within twelve (12) inches on one side and within twelve (12) to nineteen (19) inches of the bend on the other side. Support piping at indoor units, Y-branch, and Header fittings as shown.

Figure 27: Pipe Hanger Details.

***Note:***

*Use a 4" + long sheet curved sheet metal saddles between hanger bracket and insulation to promote linear expansion/contraction.*

Figure 28: Typical Pipe Support Location—Change in Pipe Direction.

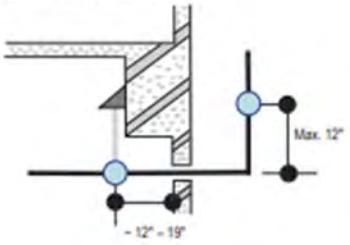



Figure 29: Pipe Support at Indoor Unit.

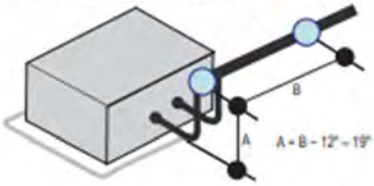



Figure 30: Pipe Support at Y-branch Fitting.

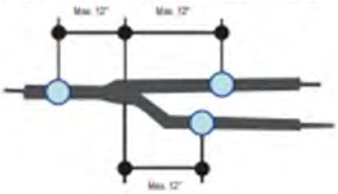
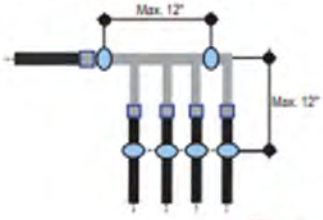



Figure 31: Pipe Support at Header Fitting.



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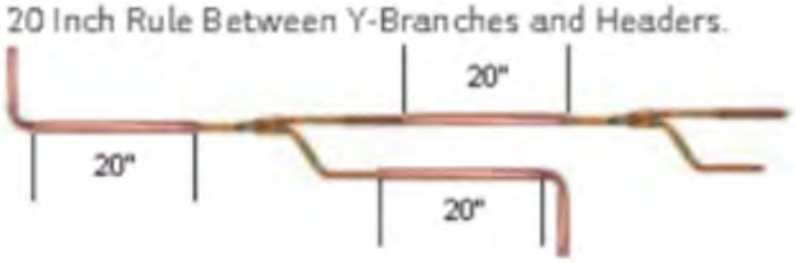
LG Life's Good

## Y-Branch Measurement:

During installation, y-branches must have 20" of straight pipe entering and leaving the component. The point of measurement will always be from the ends of the component as shown below:




## *ODU Y-Branch Measurement [CHANGE]:

Dual-frame and triple-frame systems must be installed with all outdoor units located next to each other. In conditions where the dual-frame or triple-frame outdoor units need to be separated, the following rules must be followed (rules ⃠ do not apply to single-frame outdoor units):

1. Measurements.

All measurements must be made from the union center of the outdoor unit Y-branch.

Figure 86: Y-branch Measurement Location.

**This measurement point on ODU y-branches for inverted oil trap installation will be changed from center-point to end-point measurement for consistency. Literature will be modified in MV-i manuals. Existing and pre-MV-i installations will honor the measurement point as currently shown in the above description.*

LG ELECTRONICS U.S.A., INC.
Air Conditioning Technologies
4300 North Point Parkway
Alpharetta, GA 30022

# 20" Rule Clarification and Y-Branch Measurement Location

## 20''Inch Rule for Piping Installation:

When installing piping, ensure there is at least 20'' inches of straight pipe before and/or after any piping *components* such as Indoor Units (IDUs), Heat Recovery Boxes, Headers, Y-branches, AHU Kits, and similar equipment.

For fittings like long-radius 90° & 45° elbows, and similar, maintain a minimum of 20'' inches of straight pipe downstream before connecting to another fitting whenever possible.

Note: Minimizing sections of piping shorter than 20'' inches between fittings can improve system performance and reduce nuisance refrigerant noise. This excludes full-port ball valves and straight couplings.

## From the IOM:

One of the most critical elements of a Multi V system is the refrigerant piping. The table below lists pipe length limits that must be followed in the design of a Multi V refrigerant pipe system:

Table 20: Multi V 5 Refrigerant Piping System Limitations

| | | |
|---|---|---|
| Pipe Length (ELF = Equivalent Length of pipe in Feet) | Longest total equivalent piping length | 3,280 feet |
| | Longest distance from outdoor unit to indoor unit | 656 feet (Actual) 738 feet (Equivalent) |
| | Distance between fittings and indoor units | ≥20 inches |
| | Distance between fittings and Y-branches | ≥20 inches |
| | Distance between two Y-branches | ≥20 inches |
| | Distance between two series-piped heat recovery units | ≥20 inches |
| | Minimum distance between indoor unit to any Y-branch | 3 feet from indoor unit to Y-branch |
| | Maximum distance between first Y-branch to farthest indoor unit | 131 feet (295 feet for conditional applications) |
| Elevation (All Elevation Limitations are Measured in Actual Feet) | If outdoor unit is above or below indoor unit | 360 feet |
| | Between indoor units on heat pump systems, or indoor units connected to separate parallel heat recovery units | 131 feet |
| | Between indoor units connected to single heat recovery unit or series heat recovery units | 49 feet |

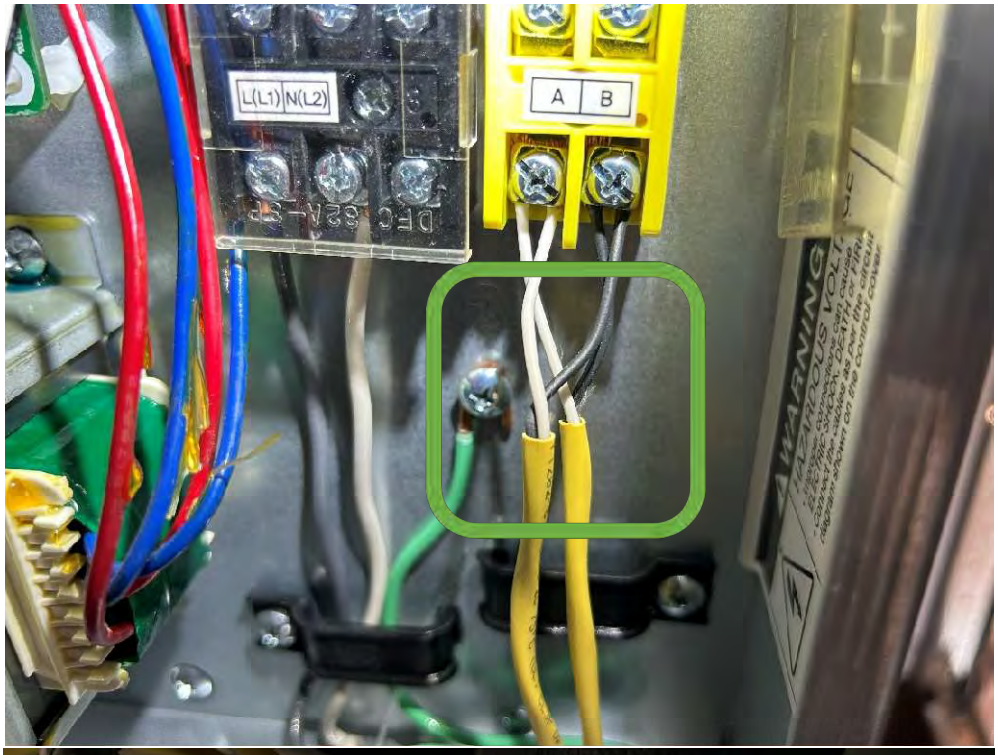
Table 21: Equivalent Piping Length for Y-branches, Headers, and Other Piping Components

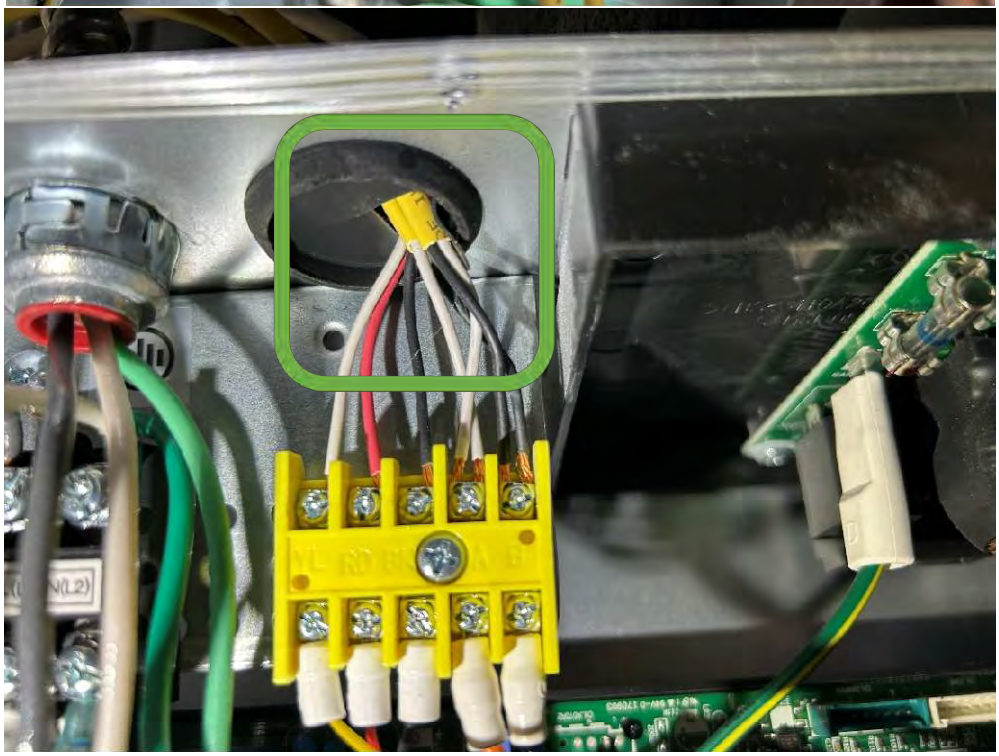
| Component | Size (Inches) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1/4 | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1-1/8 | 1-1/4 | 1-3/8 | 1-1/2 | 1-5/8 | 1-3/4 | 2-1/8 |
| Long Radius Elbow (ft.) | 0.5 | 0.6 | 0.7 | 0.8 | 1.2 | 1.3 | 1.5 | 1.6 | 1.8 | 2.0 | 2.1 | 2.3 | 2.5 | 2.8 |
| Y-branch (ft.)[1] | 1.6 | | | | | | | | | | | | | |
| Header (ft.) | 3.3 | | | | | | | | | | | | | |
| Heat Recovery Unit (ft.) (For Heat Recovery Systems only) | 8.2 | | | | | | | | | | | | | |

[1]Kit contains two Y-branches: one for liquid and one for vapor.

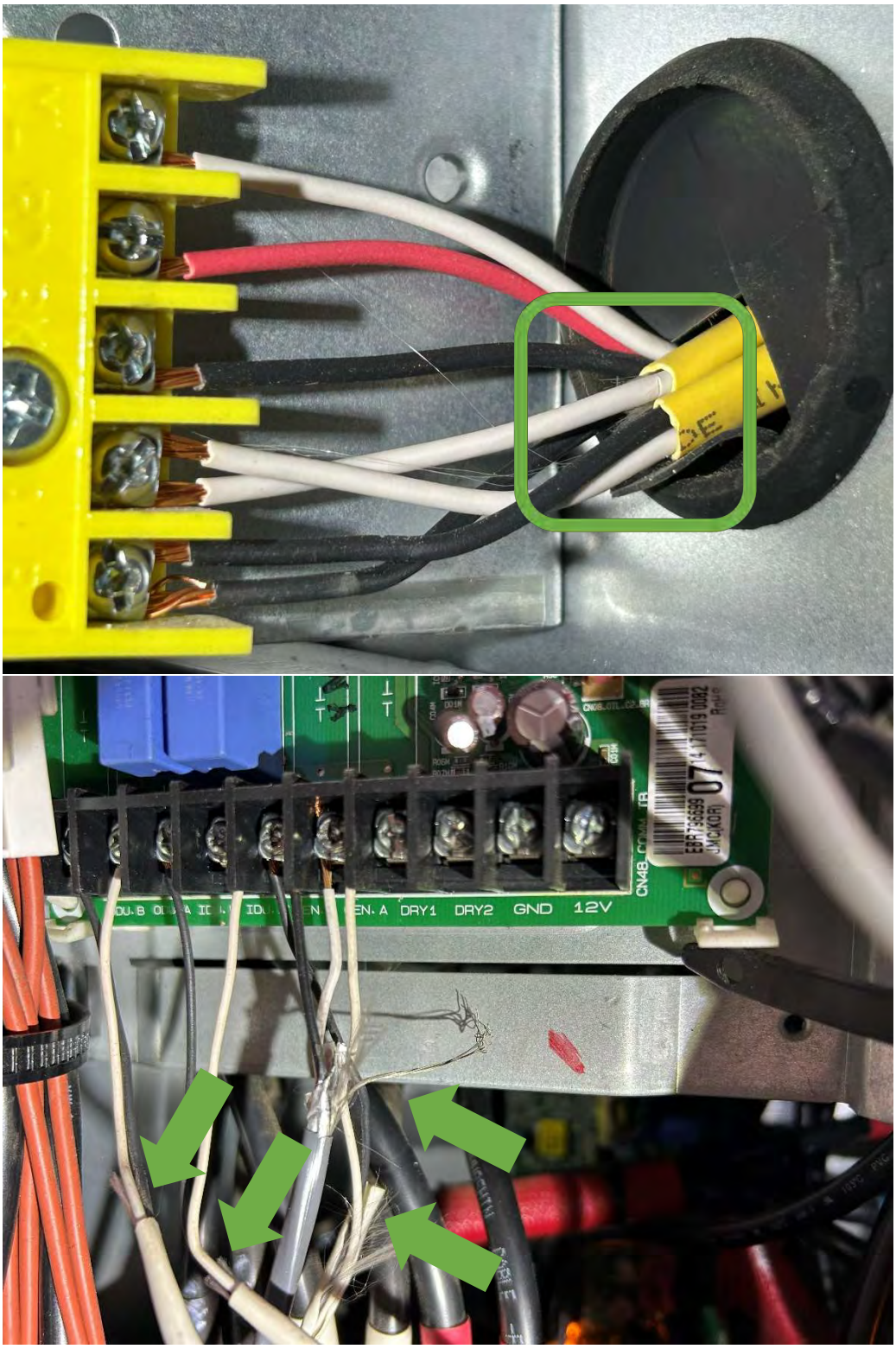
Control wiring does not meet IOM specifications. IDU, ODU and CEN Daisy Chain should be 18 AWG 2-conductor, twisted, stranded, shielded wire. I observed multiple instances that have no shield wire. I also observed an instance of a 3-conductor wire being used on the Master ODU CEN Daisy Chain and one wire set had a shield and the other did not. There were no communication errors showing at this time.

No shield wires.

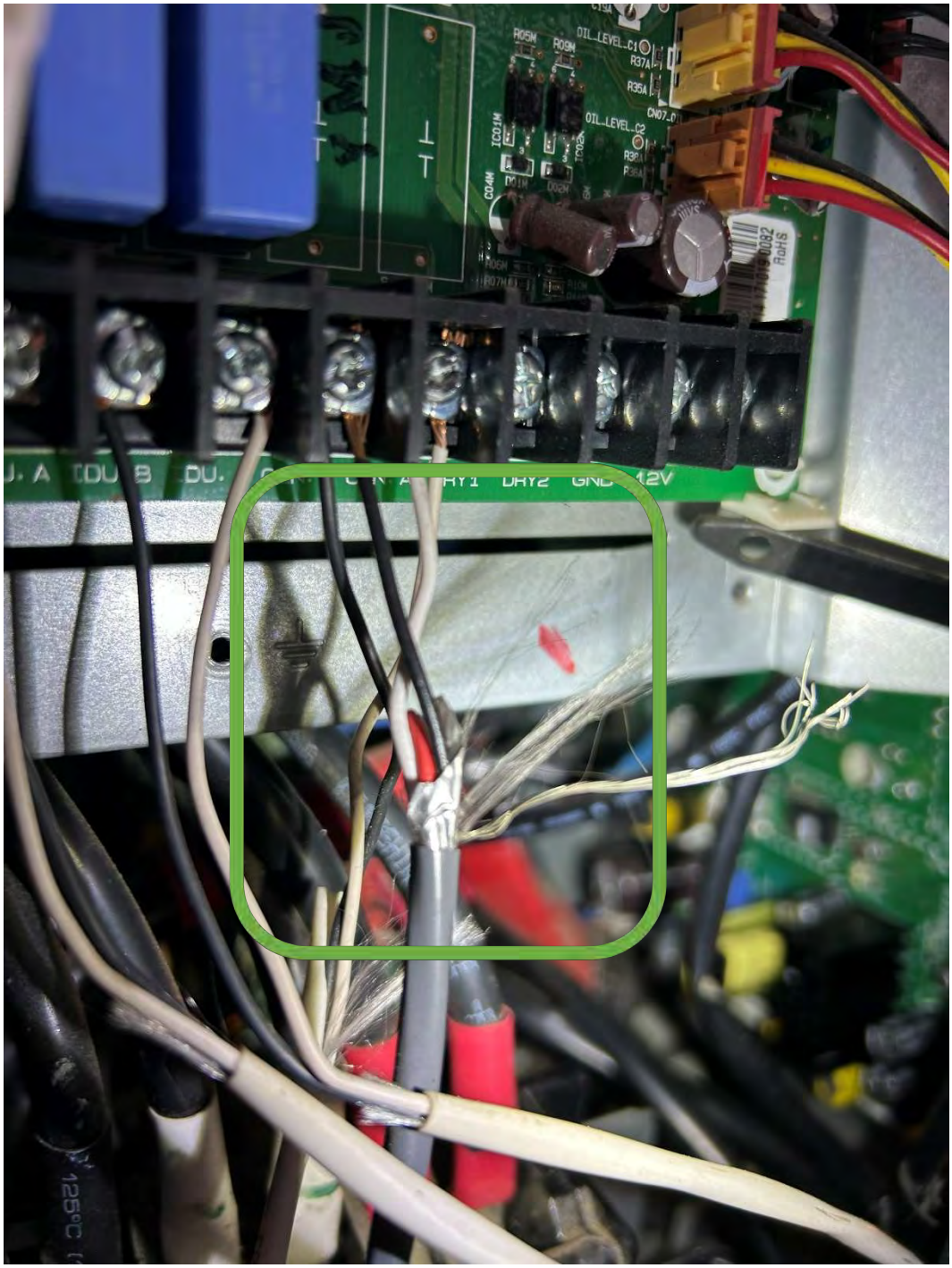


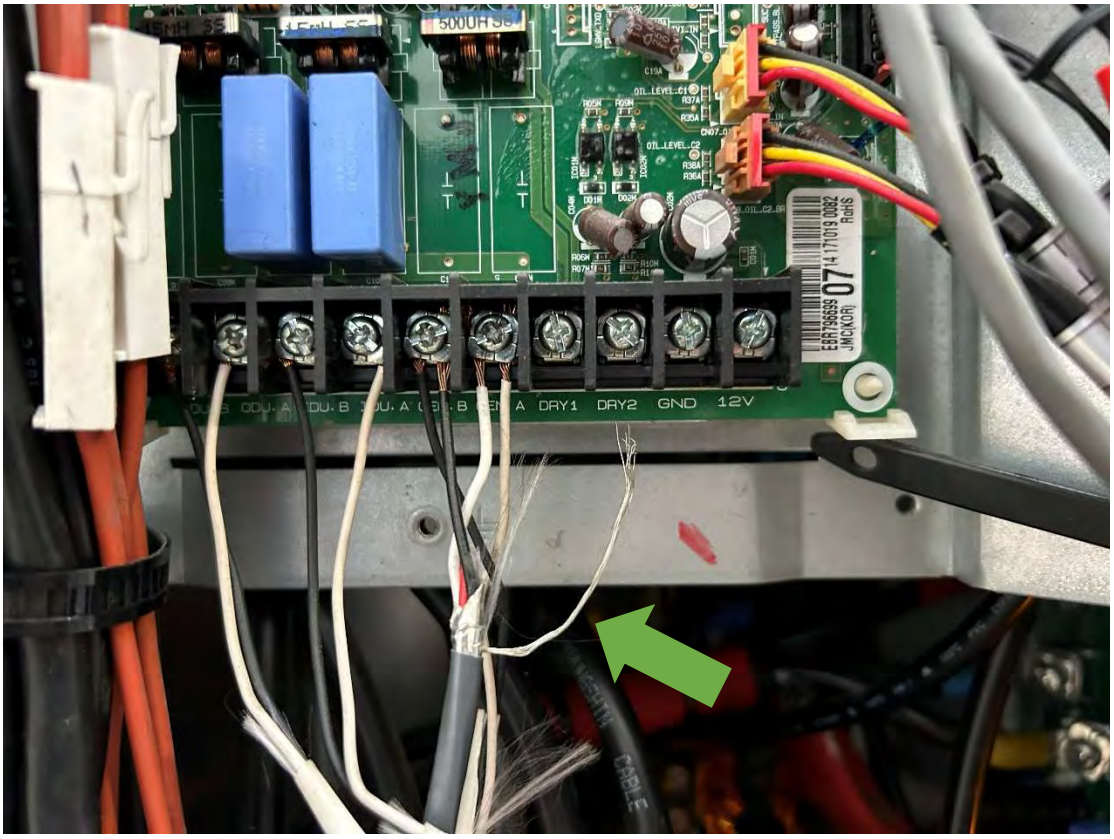
No shield wires.




No shield wires.

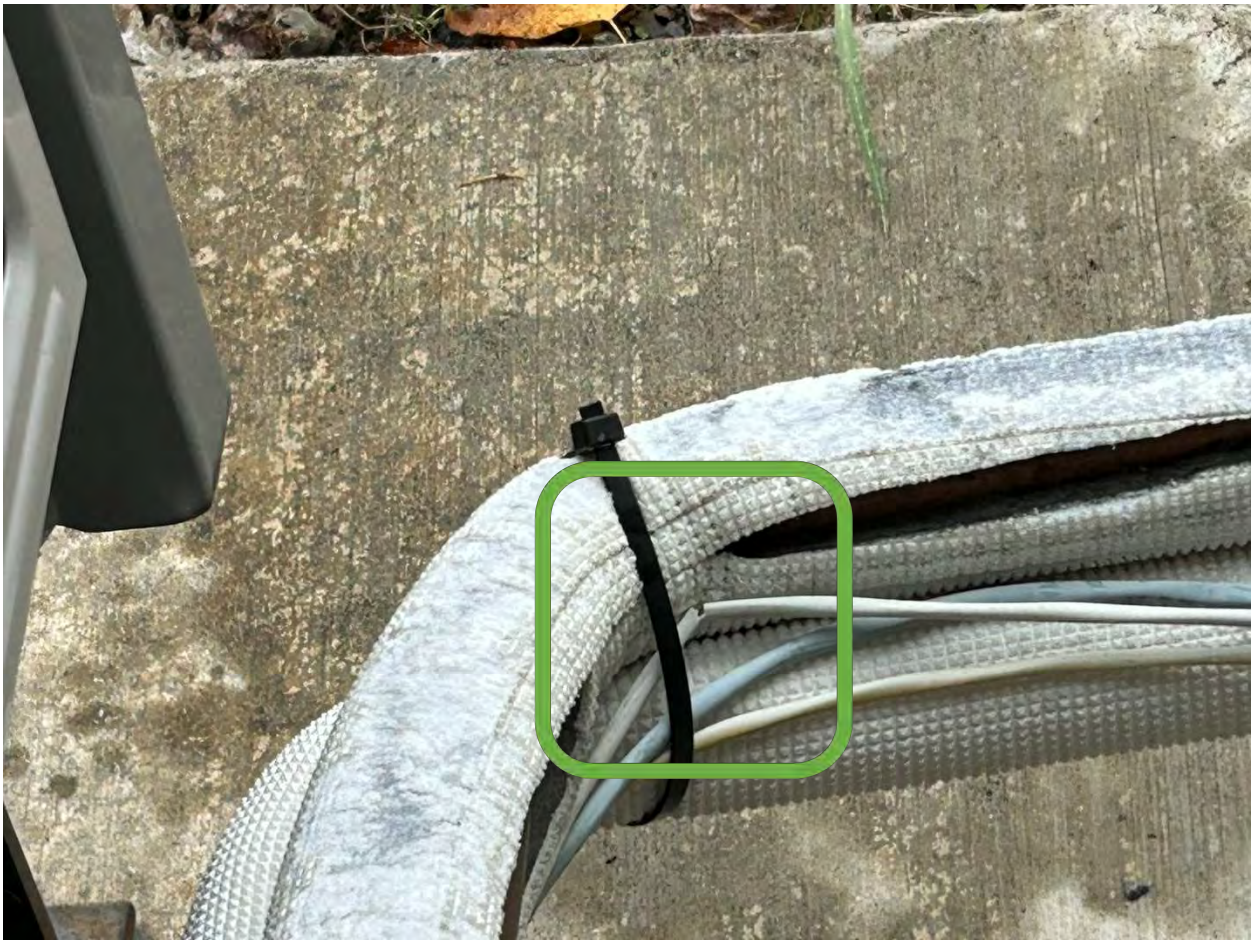



3 -conductor wire observed and is incorrect per IOM only 2-conductor is allowed.




One of the CEN comm wires has a shield, the other does not.

Wire splice is not allowed.



Communication wire jacket is degrading and cracking.

# ELECTRICAL

Communication Cable Specifications



## Communication Cable Specifications From Outdoor Unit to Indoor Units / Heat Recovery Units

- Communication cable from Master Outdoor Unit to Indoor Units / Heat Recovery Units is to be 18 AWG, 2-conductor, twisted, stranded, shielded. Ensure the communication cable shield is properly grounded to the Master Outdoor Unit chassis only. ⃠ Do not ground the Outdoor Unit to Indoor Units / Heat Recovery Units communication cable at any other point. Wiring must comply with all applicable local and national codes.
- Cable shields between the connected devices must be tied together and continuous from the master outdoor unit to the last component connected.
- Start the communication cable at the master outdoor unit and route to the indoor units / heat recovery units in a daisy chain configuration. ⃠ Do not install in a starburst configuration.
- Indoor Unit / Heat Recovery Unit Communication Bus: The communication terminals are labeled differently among the indoor units, depending on type (currently for indoor units: A / B, 3[A] / 4[B], or 3 / 4; for heat recovery units: A / B). Refer to the wiring diagram schematic found in the indoor unit itself, or to the indoor unit wiring diagrams in the Engineering Manuals for more information. Match IDU A and B terminals on outdoor unit to A (3) and B (4) terminals on indoor units / heat recovery units.
- Insulation as required by NEC and local codes.
- Rated for continuous exposure of temperatures up to 140°F.
- Maximum allowable communication cable length is 3,281 feet.

### ⚠WARNING

- *Ground wiring is required to prevent accidental electrical shock during current leakage, communication problems from electrical noise, and motor current leakage. ⃠ Do not connect the ground line to the pipes. There is risk of fire, electric shock, explosion, physical injury or death.*
- *⃠ Never ground the shield of the communications cable to the indoor unit frame or other grounded entities of the building. Inadequate connections will generate heat, cause a fire, and physical injury or death.*

### *Note:*

- *Always verify the communication cable is connected to a communications terminal on the outdoor unit(s). ⃠ Never apply line voltage power to the communication cable connection. If contact is made, the PCBs will be damaged.*
- *⃠ Never use a common multiple-core communications cable. Each communications bus must be provided a separate cable (i.e., between outdoor unit(s) and indoor units, outdoor units and central controller(s). If communications cables of separate systems are wired using a common multiple-core cable, it will result in a poor communications signal and unacceptable system operation.*

Figure 116: Correct Master Outdoor Unit to Indoor Unit / Heat Recovery Unit Communication Wiring—Daisy Chain Configuration.

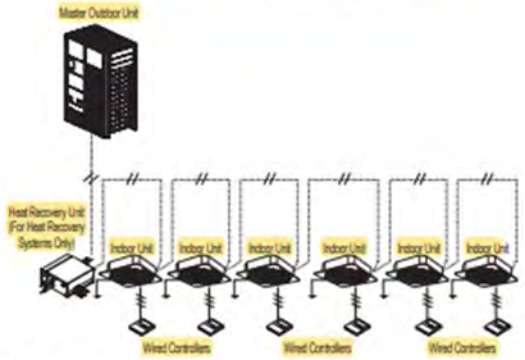
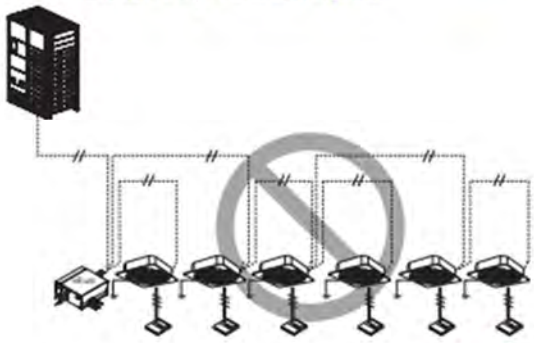



Figure 117: Incorrect Master Outdoor Unit to Indoor Unit / Heat Recovery Unit Communication Wiring—Starburst Configuration.





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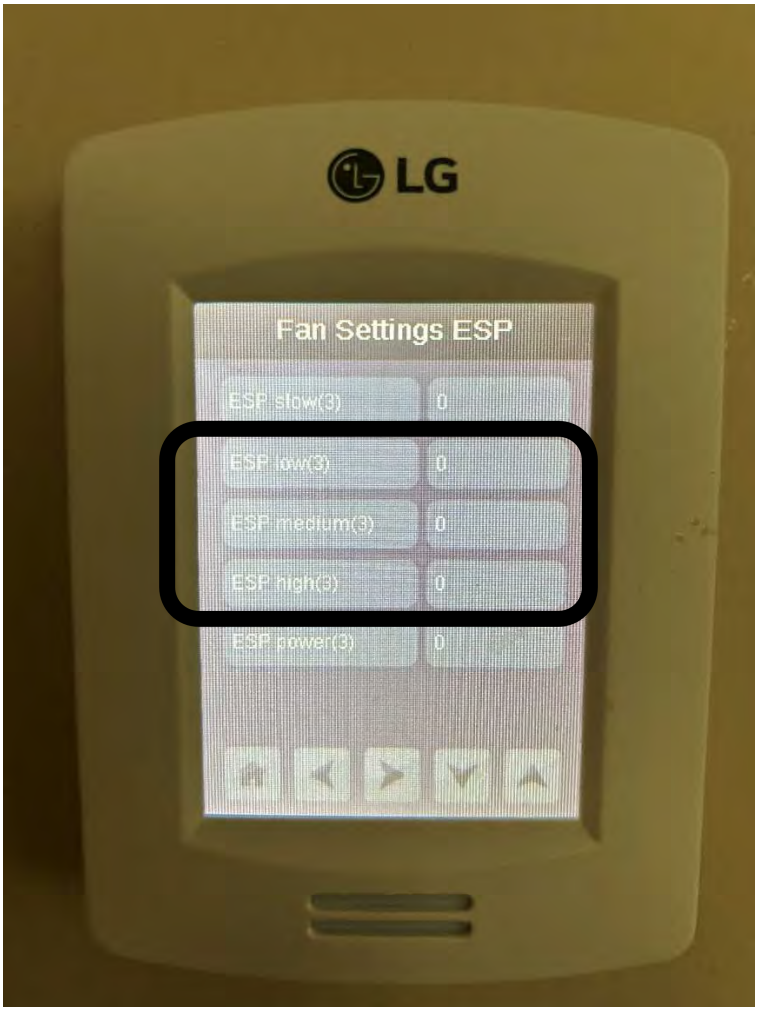
Spot checked various fan coils to see if the system had been properly air balanced. From looking at the lack of ESP values being input on Low, Medium and High the system does not appear to be properly air balanced. This could explain performance issues and compressor failures along with the other deficiencies previously documented.


LG
Fan Settings ESP
ESP slow(3)
0
ESP low(3)
0
ESP medium(3)
0
ESP high(3)
0
ESP power(3)
0

LG
Fan Settings ESP
ESP slow(3)
0
ESP low(3)
0
ESP medium(3)
0
ESP high(3)
0
ESP power(3)
0

## Indoor Unit Temperature Sensing Location, continued.

### Considerations for Ducted Units—Single Zone, Single Unit

- When using the return air temperature sensor of a ducted indoor unit, ensure that the air temperature being sensed is directly from the space and not air mixed with outside air or open plenums. Also, the temperature sensed by the return air temperature sensor when the ducted indoor unit fan is not operating could be affected by the distance of the duct run.
- If the return air is not representative of the space due to outside air introduction, open plenum, or other reasons, using a remote controller or remote temperature button sensor is required.

### Considerations for Ducted Units—Multiple Spaces, Single Indoor Unit

In some applications, a single ducted unit is used to serve multiple smaller spaces. The indoor unit will still control based on the sensed space temperature.

1. Use the return air temperature sensor to sense a common return from all of the spaces served by the indoor unit.

***Note:***

*If outside air is introduced into the indoor unit or an open plenum is used, ⃠ do not use this option for sensing temperature.*

2. Use a remote controller in the most often occupied area along with a remote temperature button sensor in another area. When the combination sensing method is used, the indoor unit uses the sensed value farthest from the set point. (Function Code 4 must be set to 003.)
3. Use multiple remote temperature button sensors in a series-parallel configuration to average the space temperature across multiple spaces.

***Note:***

*For more information, see the "Temperature Sensing Applications Guide" on www.mylghvac.com.*

## Setting External Static Pressure

Ducted units will need the fan speed adjusted to deliver the required airflow at the external static pressure (ESP) of the duct system. Settings are made using a wired remote controller and the air flow information found in the specific indoor unit's engineering manual. For instructions on how to set the ESP through the wired remote controller, consult the user's, owner's, and / or installation manual for that particular controller.

***Note:***

*It is always best if the air balance is completed prior to a request for an LG trained commissioner. If the air balancing contractor has not completed the work before commissioning, the LG trained commissioner is not responsible for setting the indoor unit air flow rates, fan speeds, or ensuring the air volume delivered at each indoor unit is per project specifications. Excessive or restricted airflow will impact the ability of the LG trained commissioner to successfully complete system commissioning. If any problems exist, request verification from the Test and Balance contractor. If necessary, provide instruction to the air balance technician on how to adjust the indoor unit fan setting value.*

### Summary of External Static Pressure Procedure

1. Request / review the final air balance report (that includes the actual measured ESP[s] and required air flow rate[s]).
2. Note all required fan setting value changes.
3. Perform all required ESP (fan) setting value changes. A separate ESP (fan) setting value must be selected for each available indoor unit fan speed.
4. Check all fan setting values on zone controllers to verify adjustments were made.
5. Record the values on the Pre-Commissioning Device Configuration Worksheet.





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# PRE-COMMISSIONING

## Setting External Static Pressure





### Determining External Static Pressure and Setting the Values

1. For ducted indoor units, the Engineering Manual includes tables listing setting values as they relate to ESP and airflow. The installer can use the available range of ESP settings to adjust for ductwork in the system (consult the latest engineering manual; see www.lghvac.com). See table below for an example.

### *Note:*

*The indoor unit fan(s) cannot be allowed to operate outside manufacturer's parameters. Extended operation in these conditions will result in*

- *Fan surge (noisy & slow pulsating airflow), and / or*
- *Fan motor failure*

Table 85: Example of Ducted Unit External Static Pressure and Air Flow Table from an Engineering Manual.

| Set Value | Static Pressure (in. wg) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0.19 | 0.23 | 0.31 | 0.39 | 0.47 | 0.55 | 0.59 | 0.62 | 0.66 | 0.70 | 0.78 |
| 91 | 1,642 | 1,543 | 1,349 | 1,105 | 819 | 494 | 317 | 130 | - | - | - |
| 96 | 1,762 | 1,628 | 1,518 | 1,183 | 1,098 | 649 | 483 | 317 | 91 | - | - |
| 101 | 1,839 | 1,772 | 1,691 | 1,395 | 1,320 | 964 | 889 | 628 | 314 | 215 | - |
| 106 | 1,815 | 1,808 | 1,779 | 1,568 | 1,522 | 1,176 | 1,133 | 1,020 | 741 | 632 | 293 |
| 111 | 1,892 | 1,896 | 1,868 | 1,762 | 1,705 | 1,433 | 1,419 | 1,158 | 1,112 | 960 | 618 |
| 116 | - | - | - | 1,967 | 1,794 | 1,582 | 1,504 | 1,416 | 1,327 | 1,147 | 974 |
| 121 | - | - | - | - | 1,843 | 1,794 | 1,776 | 1,613 | 1,575 | 1,370 | 1,137 |
| 126 | - | - | - | - | - | - | 1,921 | 1,808 | 1,779 | 1,624 | 1,536 |

2. The table below presents the ESP settings that the unit comes with from the factory, plus an additional "standard" setting.

Table 84: Example of Ducted Unit External Static Pressure and Air Flow (with Settings) from an Engineering Manual.

| Model | Capacity (MBh) | Mode | | Setting Value | Standard ESP (in. wg) | CFM | Min. ESP (in. wg) | Max. ESP (in. wg) |
|---|---|---|---|---|---|---|---|---|
| ARNU483**** | 48.1 | High (Factory Set) | High | 116 | 0.55 | 1,582 | 0.39 | 0.78 |
| | | | Mid | 111 | | 1,434 | | |
| | | | Low | 106 | | 1,176 | | |
| | | Standard | High | 106 | 0.39 | 1,568 | 0.27 | 0.55 |
| | | | Mid | 102 | | 1,395 | | |
| | | | Low | 95 | | 1,183 | | |

3. Once the available system static pressure requirements and the desired airflow rate are known, select the required ESP (fan) setting value(s). A separate ESP (fan) setting value must be selected for each available indoor unit fan speed.

### *Note:*

*Fan RPM = fan setting value x 10.*

4. Record the values on the Pre-Commissioning Device Configuration Worksheet. If the fan setting value was left at the factory default, insert "000" in the blank.



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# Replacing a Compressor in a Multi V Outdoor Unit

This document describes a typical procedure to remove and replace a compressor in an LG Multi V outdoor unit (ODU). If you are unsure of any step, contact LG Technical Support before taking any action.

**Note:**

***This document describes typical Multi V IV ODU compressor removal and replacement. For additional information, contact LG Technical Support.***

## Safety

**⚠WARNING**

**High voltages capable of causing death or severe injury are used in this equipment.**

***Remove input power before removing the compressor. Failure to remove input power can result in electric shock, severe injury, or death.***

**High pressure R410A refrigerant is used in this system.**

***Ensure the refrigerant is removed from the system before disconnecting any refrigerant pipe connections. Failure to remove refrigerant before disconnecting may result in an explosion. Flame from a brazing torch can cause refrigerant to create a caustic vapor. Failure to observe this warning can result in severe injury or death.***

**Note:**

***Safety of personnel is the primary concern during all procedures. Use the appropriate tools and accessories. Plan your work and do not work alone, if possible. Know how to obtain emergency medical and fire fighting assistance.***

***This equipment is intended for installation and maintenance by personnel trained in the required construction, mechanical, electrical, and/or other disciplines. Personnel must be familiar with and follow the applicable national, state, and/or local codes and hold all pertinent national, state and or local licensing to perform service on this equipment.***

## Compressor Failure

**Note:**

***Use the appropriate screwdriver. LG outdoor unit (ODU) and indoor unit (IDU) screws are Japanese Industrial Standard (JIS) screws, not phillips head. Using a phillips head screwdriver can damage the screws.***

**Note:**

***Follow these instructions to reduce the chance of repeat compressor failure. Failure to follow these procedures can result in severe equipment damage.***

1. When troubleshooting has isolated a system fault to a failed compressor, the entire compressor assembly must be replaced. There are no replaceable parts inside a compressor.
2. Determine if the problem is due to mechanical failure or electrical burnout. Test the refrigerant for acid contamination. Use an acid test kit for R410 refrigerant and PVE oil. If the refrigerant does not contain acid, the failure is mechanical. If the oil does contain acid, the failure is electrical. Electrical failures can contaminate the oil and refrigerant.
3. Recover all refrigerant from the system. Put the ODU(s) in vacuum mode and use a recovery machine to recover the refrigerant.
   - If the refrigerant contains acid, do not reuse the recovered refrigerant. When recharging the system after repair, use new refrigerant.
   - If the refrigerant does not contain acid, the recovered refrigerant can be reused.

## Compressor Failure – continued

**⚠WARNING**

**High voltages capable of causing death or severe injury are used in this equipment.**
***Remove input power before removing the compressor. Failure to remove input power can result in electric shock, severe injury, or death.***

**High pressure R410A refrigerant is used in this system.**
***Ensure the refrigerant is removed from the system before disconnecting any refrigerant pipe connections. Failure to remove refrigerant before disconnecting may result in an explosion. Flame from a brazing torch can cause the refrigerant to create a caustic vapor. Failure to observe this warning can result in severe injury or death.***

4. Disconnect input power from the system and remove the failed compressor.
5. Seal the compressor pipes by brazing them closed. Sealing the pipes preserves the compressor oil for future testing.
6. If the compressor failure is mechanical, cleaning the refrigerant piping is not required. Skip steps 7 through 11.
7. If the compressor failed due to electrical burnout, clean the refrigerant piping with a commercial flushing agent such as Nu-Calgon RX-11 or equivalent. Be sure to follow the cleaning agent manufacturer's instructions carefully to ensure all foreign material is cleaned out of the refrigerant pipes.
8. Install a temporary suction line filter drier in the suction line. Locate the filter drier as close as possible to the compressor to reduce the possibility of further contamination. Use a filter drier compatible with R410 refrigerant and of the correct size for your system. Refer to the filter drier manufacturer's instructions.
9. For heat pump systems, if the filter drier is installed external to the ODU, lock the system into cooling only mode. If the system is not in cooling only mode, the filter drier material can break apart and contaminates can be reintroduced into the system due to hot gas reverse flowing though the drier. To operate the system in heating mode, install the filter drier inside the ODU chassis in the low pressure vapor line going to the compressor. There is no need to lock the system into heat only mode if the drier is installed in the compressor suction line inside the ODU..
10. For heat recovery systems, install the filter drier outside the ODU in the low pressure vapor line.
11. Shut off valves can be installed on both sides of the filter driers if desired. If shut off valves are used, they must meet these minimum specifications:
    - Compatible with R410 and PVE (Polyvinyl Ether) oil
    - Temperature operating range of -40°F to 300°F
    - Working pressure of 550PSI and capable of handling 700PSI
    - Full flow with 0PSI pressure drop
    - Service port
    - Brazed connections
12. Install the new compressor. Flow nitrogen through the system while brazing the compressor pipe connections to prevent oxidation and scale formation in the copper pipe.
13. Reconnect power and all other connections to the new compressor.
14. Reapply power to the system. Put the system back into refrigerant vacuum mode.
15. Pressurize the system to 550 PSIG with dry nitrogen. The system must hold this pressure for 24 hours to verify the system is leak and moisture free.
16. After passing the nitrogen test, triple evacuation of the system is required. Between each evacuation cycle, break the vacuum with nitrogen to remove moisture in the piping system. During the final evacuation the vacuum must reach at least 500 microns. At this point, turn off the vacuum pump. The vacuum must remain at 500 microns or better for one hour. If the vacuum does not remain at 500 microns or better, then check for leaks or moisture in the system.

## Compressor Failure – continued

17. If the vacuum holds for one hour, the system is ready to be recharged with refrigerant. Refer to the factory nameplate on the ODU(s) for the appropriate charge. Determine the additional charge by calculating the actual lengths of the liquid lines. The charge can also be calculated with LG's LATS software.
18. After recharging the system, take the system out of refrigerant vacuum mode. Verify the refrigerant charge is correct for the system.
19. Put the system back into normal operating mode. Using LG Monitoring View (LGMV) software may help in determining the cause of the failure.
20. After 24 to 48 hours of normal operation, measure the pressure drop across the filter drier. Perform another acid test to determine if the vapor line filter drier(s) require changing. If the pressure drop is 10 to 15 PSI or greater, change the filter drier. Replaceable core filter driers will reduce labor and time costs when replacing filter driers.
21. After two weeks of normal operation, perform another acid test. If the acid test is negative, the filter driers can be removed from the system. If the acid level is still high, replace the filter drier and test the system for acid again after another two weeks. Repeat this two week cycle until the system is free of acid.

**Advised corrective action:**

Re-configure piping to comply with 20" rule.
Support Y branches per IOM inside and outside.
Install inverted traps on high- and low-pressure vapor lines at ODU between main- and sub-units.
Ensure proper pipe slope at ODUs.
Make sure that Y-branches are level.
Remove factory port stubs on HRUs.
New insulation on ODU piping.
Fix and repair insulation on indoor piping.
Proper communication wire and practice.
Have all ducted fan coils properly air balanced with ESP settings set in thermostat configuration.
Replace all three compressors with LG compressor replacement practice.
Measure oil from each compressor and record.
Test for acid in system/oil.
Send oil out for third party analysis.
Add a filter bypass on suction line.
Add base pan heater.
Once all repairs and corrections are made run and save performance data on system for analysis. System needs to return to full operational capability to determine if there are any other issues.

****** The screen shots have been provided as a courtesy to help in understanding what corrections need to be made and are NOT a substitute for the complete (IOM) Installation and Operation Manual, (EM) Engineering Manual or other exhaustive LG documentation available at https://lghvac.com/commercial/ under "Resources". ******