GCCM TO DETERMINE EXTENTS OF STAGING AREA. OFF-SITE STAGING MAY ALSO BE PROVIDED WEST 3/4" CONSTRUCTION AND DISTURBANCE ZONE INDICATED IS ANTICIPATED ZONE. IF CONSTRUCTION OR 8'-0" STRIP SOD FROM ALL AREAS ANTICIPATED TO BE DISTURBED 2' 1/4" = 1'-0" REF: 1/ A702

GCCM TO PROVIDE SECURITY FENCING AND ACCESS GATES AS REQUIRED TO CONTROL SITE. GCCM TO PROVIDE VEHICLE WASH/DEBRI REMOVAL STATION AT SITE ENTRY POINTS.

ALL LANDSCAPED AREAS TO RECEIVE AUTOMATIC IRRIGATION SYSTEM 1'-6" ACID ETCH FINISH 7'-11 5/8"

IRRIGATION SYSTEM NOTES

SITE NOTES:
- SEE CIVIL FOR CONTINUATION OF SITE WORK, LANDSCAPING, IRRIGATION, TREE PROTECTION AND EARTHWORK. SITE WORK WITHIN CONSTRUCTION BOUNDARY TO INCLUDE, BUT IS NOT LIMITED TO, THE FOLLOWING:
  1. 20' OF WORK. SEE SPECIFICATIONS FOR TREE PROTECTION MEASURES
  2. STOCKPILES WITH PROTECTIVE FABRIC COVER AND PERIMETER SILT FENCING
  3.

- MAIN FLOOR ELEVATION: 4884.10'
- REFERENCE ELEVATION: 100'-0"
- VEHICLE PARKING. ANY ON-SITE PARKING MUST BE PRE-APPROVED BY GCCM.
- VERIFY STAGING USEAGE WITH GCCM.

- PRIOR TO CONSTRUCTION:
  1.
  2.
  3.
  4.
  5.

- OPEN SPACE EXCEEDS 20% OF TOTAL SITE AREA, PROJECT MEETS 4.33% SITE NOTES:
- SEE CIVIL AND LANDSCAPE DRAWINGS AND FULL SPECIFICATION FOR COMPLETE INFORMATION ON SITE WORK, LANDSCAPING, IRRIGATION, TREE PROTECTION AND EARTHWORK. SITE WORK WITHIN CONSTRUCTION BOUNDARY TO INCLUDE, BUT IS NOT LIMITED TO, THE FOLLOWING:
  1. 20' OF WORK. SEE SPECIFICATIONS FOR TREE PROTECTION MEASURES
  2. STOCKPILES WITH PROTECTIVE FABRIC COVER AND PERIMETER SILT FENCING
  3.

- PRIOR TO CONSTRUCTION:
  1.
  2.
  3.
  4.
  5.

- OPEN SPACE EXCEEDS 20% OF TOTAL SITE AREA, PROJECT MEETS 4.33% SITE NOTES:
TREATED SILL NAILER AS REQUIRED
CONTINUOUS FLEXIBLE FLASHING AROUND WINDOW OPENING
SEALANT & BACKER ROD
CONTINUOUS CLEAT
24 GA. PFM
MATCH ADJ CONC. COPING

EXTEND SILL FLASHING MIN. 4" UNDER WINDOW,
SET FRAME IN SEALANT BEAD

WRB METAL SIDING - SEE ELEVATIONS.
SHEATHING INTERIOR EXTERIOR
BACKER ROD & SEALANT EA SIDE
PFM JAMB FLASHING TO MATCH METAL SIDING COLOR
SEE FLOOR PLAN FOR WALL TYPE
CONT INSUL MTL CORNER BEAD SEALANT

ALUM CURTAIN WALL SYSTEM FULLY INSULATE SHIM SPACE
2 7/8" 1 1/2" 1/2"

CFM SILL FLASHING TO BEND AROUND CORNER,
RUN TO N. SIDE OF WALL RUN THRU-WALL FLASHING UP UNDER SILL FLASHING AND CURTAIN WALL

CURTAIN WALL CORNER CAULK JOINT
PRECAST THRU WALL FLASHING UNDER PRECAST PFM SILL FLASHING
SILL FLASHING TO BEND AROUND CORNER, RUN TO N. SIDE OF WALL RUN THRU-WALL FLASHING UP UNDER SILL FLASHING AND CURTAIN WALL

CURTAIN WALL SILL @ PRECAST
CURTAIN WALL AT MTL SIDING
CURTAIN WALL SILL @ MTL SIDING
CURTAIN WALL CORNER - 90°
CURTAIN WALL SILL @ MTL SIDING
CURTAIN WALL JAMB @ METAL SIDING
CURTAIN WALL JAMB @ TERRACE WALL
CURTAIN WALL HEAD @ SLOPED SOFFIT
CURTAIN WALL JAMB @ MTL SIDING
CURTAIN WALL HEAD @ SLOPED SOFFIT
CURTAIN WALL JAMB @ MTL SIDING
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CURTAIN WALL HEAD @ SLOPED SOFFIT
CURTAIN WALL JAMB @ MTL SIDING
CURTAIN WALL HEAD @ SLOPED SOFFIT
CURTAIN WALL JAMB @ MTL SIDING
HEADER PER STRUCTURAL METAL SOFFIT - SEE CEILING PLANS FOR TYPE SOFFIT J-CLOSURE
BACKER ROD & SEALANT

ALUM. STOREFRONT SYSTEM

CHAMFER ALL EDGES OF OPENING
BACKER ROD & SEALANT
FILL VOIDS WITH SPRAY FOAM

SEALANT JOINT STARTER SILL SET IN 2 SEALANT BEADS

F CHAMFER ALL EDGES OF OPENING
BACKER ROD & SEALANT
FILL VOIDS WITH SPRAY FOAM

SEALANT JOINT J METAL EDGE SAWCUT DRIP JAMB SIMILAR EXCEPT DELETE DRIP CUT

SUPPORT ANGLE BACKER ROD & SEALANT EACH SIDE

ALUM STOREFRONT SYSTEM

WRB - WRAP INTO OPENING HEADER PER STRUCTURAL MORTAR NET
WEEPS @ 24" O.C.

LAP WRB OVER THRU-WALL FLASHING CONT INSULATION

BRICK VENEER

GWB CORNER BEAD TYPICAL

7"

A407 6 A402 5 A407

A407 3 A407

A402 6 A404 7 A407

A407 4 A407 6 A407

BACKER ROD & SEALANT, TYP ALUM STOREFRONT COMPOSITE DECK PER STRUCTURAL CONC WALK WHERE OCCURS - ELEVATION VARIES 1/2" FIBER JOINT, FILL TOP W SEALANT

FINISH FLEXIBLE MEMBRANE FLASHING OVER INSUL. AND UNDER STOREFRONT SET ALL CW AND STOREFRONT IN SILL SEAL

SEE FLOOR PLANS FOR WALL TYPE INSULATE VOIDS
6"

GRID 2"

CONT 4x6x1/4" ALUM BRAKE METAL RIGID INSULATION 2"

ALUM. CURTAIN WALL ALUM. INTERIOR STOREFRONT SYSTEM BACKER ROD & SEALANT ALUM. STOREFRONT FRAME WALL ABOVE AS REQUIRED TO SUPPORT STOREFRONT CEILING FINISH WHERE OCCURS PER RCP INSULATE WALLS ABOVE STOREFRONT AT VESTIBULES

JAMB FRAMING PER STRUCTURAL BACKER ROD & SEALANT EA SIDE

GWB ALUM. STOREFRONT SYSTEM SILL SET IN MASTIC EXPANSION ANCHOR CONCRETE SLAB

BUILDING SHELL PERMIT SET 15-0103 MSU NEW DINING HALL STOREFRONT DETAILS

3" = 1'-0" REF: 6/ A203 INTERIOR STOREFRONT HEAD DETAIL @ SFi79

3" = 1'-0" REF: 14/ A203 TYP. SILL DETAIL @ BASEMENT6

3" = 1'-0" REF: 14/ A203 TYP. HEAD DETAIL @ BASEMENT4

3" = 1'-0" REF: 14/ A203 TYP. SILL DETAIL @ BASEMENT4

3" = 1'-0" REF: 7/ A202 STOREFRONT HEAD @ BRICK3

STOREFRONT SILL @ SLAB STOREFRONT JAMB @ CORTEN
STOREFRONT HEAD @ BRICK
CURTAIN WALL JAMB @ CORTEN CW SILL TYP. HEAD DETAIL @ BASEMENT TYP. SILL DETAIL @ BASEMENT CW 13 @ SFi7

3" = 1'-0" REF: 1/ A202 STOREFRONT SILL @ SLAB5

3" = 1'-0" REF: 1/ A203 INTERIOR STOREFRONT HEAD8

3" = 1'-0" INTERIOR STOREFRONT JAMB10

3" = 1'-0" REF: 3/ A501 INTERIOR STOREFRONT SILL11

TYPICAL HANDRAIL NOTES

1. HANDRAIL BRACKET ATTACHED TO VERTICAL PIPE W/ 1/2" BENT BAR & POST

2. RETURN HANDRAILS TO WALLS AT TOP AND BOTTOM OF RUN.

3. MAINTAIN CLEAR SPACE OF 1 1/2" BETWEEN FINISH WALL SURFACE AND HANDRAIL.

4. HANDRAIL 1 1/2" VERTICAL PIPE @ 48" O.C.

5. STL STAIR STRINGER

6. RETURN HANDRAIL TO FLOOR WHERE

7. 3'-6"

8. TACTILE WARNING STRIP

9. GUARDRAIL W/ HANDRAIL AT SERVICE STAIR

10. TYPICAL HANDRAIL TERMINATION AT GUARDRAIL

11. TYPICAL HANDRAIL NOTES

12. 1 1/2" = 1'-0" REF: 3/ A403

13. SOUTH EXTERIOR STAIR SECTION

14. SOUTH EXTERIOR STAIR - BASEMENT

15. SOUTH EXTERIOR STAIR SECTION

16. 3" = 1'-0" REF: 1/ A102

17. BASEMENT PLAN - SW SVC STAIR & ELEVATOR - MAIN FLOOR

18. BASEMENT OFFICE

19. TRENCH DRAIN - SEE PLUMBING DWGS

20. 14 EQ RISERS

21. 10 EQ RISERS

22. 19 EQ RISERS

23. 17 TREADS @ 11"

24. 11 TREAD DEPTH

25. 9 TR @ 11"

26. 100'-0"

27. 86'-6"

28. 9'-9"
TRANSPARENT FINISH - STAINED & SEALED
ALUMINUM
STEEL SECTIONAL DOOR FRAME
SEE WINDOW ELEVATIONS FOR FRAME TYPES FOR ALUMINUM
2'-10"
FACTORY FINISH
ALL METAL DOORS AND FRAMES TO BE PRIMED AND PAINTED.
ALL DOORS TO HAVE ADA COMPLIANT THRESHOLDS WITH 1/2"
CONTRACTOR TO USE ARCHITECT’S DOOR TYPE PLAN DESIGNATION
ALUMINUM
ALUMINUM STOREFRONT
PAINT
2"
HOLLOW METAL
ALL HARDWARE ON FIRE-RATED DOORS MUST BE APPROVED FOR
ANODIZED FINISH - DARK BRONZE
WOOD - SOLID CORE
DOOR SCHEDULE
GENERAL DOOR NOTES:

1. INSTALL HANGING BRACKET AS NECESSARY TO SUPPORT THE DOOR.
2. INSTALL WIND-RESISTANT HEAD JAMBフレーム FOR FRAMES WITH A WIND-RATED HEAD.
3. INSTALL SELF-ADHESIVE HEAD FLASHING AT EACH JAMB. WRAP FLASHING OVER THE HEAD JAMB AND SILL FLASHING.
4. INSTALL AIR INFLATION BARRIER BACK INTO PLACE. TAPE AROUND ROUGH OPENING BEFORE FLASHING IS INSTALLED TO HELP FACILITATE FLASHING INSTALLATION.
5. INSTALL METAL JAMB AND SILL FLASHING OVERLAPPING AIR INFILTRATION BARRIER APRON. FLASHING MUST TURN UP JAMBS A MINIMUM OF 8" AND EXTEND BEYOND JAMBS A MINIMUM OF 8".
6. CUT OPENINGS AS OVERLAP.
7. INSTALL 9" WIDE STRIP OF ADHESIVE SILL FLASHING (OR STEEL LINTEL) AS METAL JAMB AND SILL FLASHING MUST TURN UP JAMBS A MINIMUM OF 8" AND EXTEND BEYOND JAMBS A MINIMUM OF 8".
8. INSTALL SELF-ADHESIVE FLEXIBLE FLASHING AT EACH JAMB. WRAP FLASHING AROUND FLAP IN THE WEATHER BARRIER SYSTEM PER MANUFACTURER'S RECOMMENDATIONS.
9. INSTALL 4" WIDE STRIP OF ADHESIVE JAMB FLASHING.
10. INSTALL FLEXIBLE SELF-ADHESIVE SILL FLASHING AT THE HEAD. INSTALL HEAD FLASHING USING SAME PREFIN. METAL DRIP-EDGE HEAD FLASHING AS METAL JAMB AND SILL FLASHING.

CAMPUS PLANNING, MONTANA STATE UNIVERSITY
PHONE: 406.994.5413 FAX: 406.994.5665

DOOR TYPES

GLAZING LEGEND

WINDOW TYPES

WINDOW FLASING DETAIL

ABBREVIATIONS

DOOR FRAME TYPES

GLAZING - INSULATED AT EXTERIOR DOORS

DETAILS
GAS SERVICE LOCATION MAP

DATE: 10-26-16

SHEET: 15-0103

PPA # B16-019

GAS SERVICE LOCATION MAP

S 11TH AVE
W HARRISON ST

C301

J:\2016\B16-019 MSU Dining Hall\CADD\CIVIL\Dining Hall Sheets\B16-019 MSUDH C301.dwg, 10/26/2016 1:59:33 PM, ACH
**GENERAL LAYOUT NOTES**

1. **LANDSCAPING SYMBOL LEGEND**
   - **Symbol** | **Description** | **Legend**
   - **Y** | **CURB**
   - **R** | **RAMP**
   - **V** | **VERTICAL**
   - **L** | **LEVEL**
   - **F** | **FACE**
   - **C** | **CURB**
   - **T** | **TERRAIN**

2. **NOTE**: Landscape symbols are shown on the plans and project drawings. These symbols are to be used as a guide for the installation of landscaping features and equipment. Any discrepancies or conflicts should be resolved on site prior to planting.

3. **NOTE**: All landscape elements are shown on the landscape plans for project administration and are to be constructed in accordance with project specifications. Any changes or modifications must be approved in writing by the architect.

4. **NOTE**: Unless otherwise noted, all layout dimensions are to be measured from the face of the existing curb, face of the wall, or face of the face of the architectural elements. All dimensions may vary from the plan due to actual lengths along sloped surfaces.

5. **NOTE**: All architectural elements are shown on the landscape plans for project administration and are to be constructed in accordance with project specifications. Any changes or modifications must be approved in writing by the architect.

6. **NOTE**: All detached walks shall be constructed parallel to the existing curb and any conflicts shall be resolved in the field by the architect.

7. **NOTE**: Utility/vegetation conflicts may exist. Verify location and depth of all utilities prior to seeding/sodding or planting.

8. **NOTE**: Any discrepancies shall be resolved in the field by the architect.

9. **NOTE**: All architectural elements are shown on the landscape plans for project administration and are to be constructed in accordance with project specifications. Any changes or modifications must be approved in writing by the architect.

10. **NOTE**: Any discrepancies shall be resolved in the field by the architect.

11. **NOTE**: All architectural elements are shown on the landscape plans for project administration and are to be constructed in accordance with project specifications. Any changes or modifications must be approved in writing by the architect.

12. **NOTE**: Any discrepancies shall be resolved in the field by the architect.

**SHEET INDEX**

- **LG1.01** | **GRADING LAYOUT**
- **LL1.02** | **SITE LAYOUT PLAN**
- **LN1.01** | **LANDSCAPE GENERAL NOTES**
- **LD5.01** | **C.I.P. CONCRETE WALLS**
- **LD5.02** | **C.I.P. CONCRETE WALLS**
- **LD5.03** | **C.I.P. CONCRETE WALLS**
- **LD5.04** | **C.I.P. CONCRETE WALLS**
- **LD5.05** | **CONCRETE STAIRS & HANDRAIL**
- **LD5.06** | **CONCRETE STAIRS & HANDRAIL**
- **X-XX** | **TOPLINE**
- **0.1** | **1.0' CONTOUR INTERVAL**
- **1.0** | **1.0' CONTOUR INTERVAL**

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**NOTES:**

1. **NOTE**: Existing materials, procedures, and installation. Notify architect of location of existing and proposed materials. Any discrepancies or conflicts shall be resolved in the field by the architect.

2. **NOTE**: Building or building elements shall be constructed parallel to the existing curb and any conflicts shall be resolved in the field by the architect.

3. **NOTE**: All layout dimensions are to be measured from the face of the existing curb, face of the wall, or face of the face of the architectural elements. All dimensions may vary from the plan due to actual lengths along sloped surfaces.

4. **NOTE**: All architectural elements are shown on the landscape plans for project administration and are to be constructed in accordance with project specifications. Any changes or modifications must be approved in writing by the architect.

5. **NOTE**: Any discrepancies shall be resolved in the field by the architect.

6. **NOTE**: All architectural elements are shown on the landscape plans for project administration and are to be constructed in accordance with project specifications. Any changes or modifications must be approved in writing by the architect.

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8. **NOTE**: All architectural elements are shown on the landscape plans for project administration and are to be constructed in accordance with project specifications. Any changes or modifications must be approved in writing by the architect.
1) SLOPED PLANTING CIP CONCRETE BAND - NORTH FACADE

DATE: 10/26/2016 5:14:27 PM

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Helena, Montana 59601
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ARCHITECTURE - PLANNING - DESIGN

CIP CONCRETE BAND - NORTH FACADE

ELEVATION - LAWN TERRACE

SECTION - BUTTRESS SUPPORT

SECTION - LAWN TERRACE

1/2" = 1'-0"
**TYPICAL SHRUB/VINE PLANTING**

- **2 X ROOTBALL DIAMETER MIN.**
- **MIX AS PER SPEC.**
- **PREPARE AND PLACE PLANTING SOIL BANK SOIL TO TOP OF THE ROOTBALL 2" ABOVE FINISH GRADE.**
- **REMOVE ALL ROPE, TWINE AND REMOVE CONTAINER OR BRANCHES FROM SHRUBS. SHRUB REMOVE ONLY INJURED OR DEAD FENCE.**
- **COMPLETELY PEEL BACK, CUT AND SPACING AS PER PLANS, LAYOUT WIRE. SET ROOTBALL PLUMB IN VARIES.**
- **PLANT ROOTBALL 3"-4" HIGH WITH PIT. MIX AS PER SPEC.**
- **PREPARE AND PLACE BACKFILL SOIL CUT AND REMOVE TOP 1/3RD OF WIRE COVER TOP OF ROOTBALL WITH SOIL.**
- **MULCH IN CONTACT WITH TREE 1/2" DIA. WHITE PVC PIPE. WIRE INJURED OR DEAD BRANCHES FROM SHRUBS. DO NOT CUT TREE LEADER, PRUNE ONLY CROSSOVER LIMBS, TREE LEADERS AND CO-DOMINANT LEADERS.**
- **APPLY TREE WRAP FROM BOTTOM OF TRUNK TO FIRST BRANCH, WRAP SHOULD ALLOW 3"-4" AREA OF TRUNK TO FIRST BRANCH, WRAP PAPER WITH STAKE AND FASTENERS IMMEDIATELY AFTER PLANTING, FLAG WIRE WITH SHOVEL TIPS.**
- **SECURE TREE STAKES MIN. 2 FEET IN A 6" DIA. CONCRETE ATTACHMENT OF TRUNK.**
- **PLANTS 1" HIGHER THAN FINISH GRADE.**
- **DO NOT PLACE MULCH OVER MULCH PLANTING BED AS SPECIFIED.**
- **SCARIFIED SOIL.**
- **SCARIFIED SOIL.**
- **SCARIFIED SOIL.**
- **SCARIFIED SOIL.**
- **SCARIFIED SOIL.**
- **SCARIFIED SOIL.**
1. A GEOTECHNICAL INVESTIGATION HAS BEEN COMPLETED AND A REPORT HAS BEEN PREPARED BY
   
2. DATA ON INDICATED SUBSURFACE CONDITIONS ARE NOT INTENDED AS REPRESENTATIONS OR
   
3. STABILITY OF CONSTRUCTION EXCAVATION AND WORKER SAFETY ARE THE RESPONSIBILITY OF THE
   
4. GROUNDWATER WAS NOT ENCOUNTERED AT BORING LOCATIONS DURING THE DRILLING OPERATION.
   
5. IN ORDER TO ENSURE THE SAFETY AND EFFICIENCY OF THE CONSTRUCTION OPERATION, THE CONTRACTOR
   
6. CHAMFER ALL EXPOSED CORNERS 3/4" UNLESS OTHERWISE NOTED ON THE DRAWINGS.
   
7. THE STRUCTURE SHALL BE ADEQUATELY BRACED FOR SOIL, WIND, EARTHQUAKE AND CONSTRUCTION
   
8. PROVIDE SUPPORTS FOR REINFORCING AS SPECIFIED TO MAINTAIN BAR POSITION IN CONCRETE. AT
   
9. AT SLABS-ON-GRADE, PROVIDE SLAB CONTRACTION JOISTS IN ACCORDANCE W/ DETAIL 5/S300.
   
10. WHERE "DRILLING & EPOXYING" OF REINFORCING STEEL OR THREADED ANCHOR RODS (ASTM A36, U.N.O.)
    
11. WELDING: COMPLY W/ AWS D1.1 . USE E70xx ELECTRODES FOR SMAW WELDING PROCESS,
    
12. CAST-IN-PLACE CONCRETE:
    
13. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
    
14. WHERE "DRILLING & EPOXYING" OF REINFORCING STEEL OR THREADED ANCHOR RODS (ASTM A36, U.N.O.)
    
15. WELDING: COMPLY W/ AWS D1.1 . USE E70xx ELECTRODES FOR SMAW WELDING PROCESS,
    
16. CAST-IN-PLACE CONCRETE:
    
17. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
    
18. WHERE "DRILLING & EPOXYING" OF REINFORCING STEEL OR THREADED ANCHOR RODS (ASTM A36, U.N.O.)
    
19. WELDING: COMPLY W/ AWS D1.1 . USE E70xx ELECTRODES FOR SMAW WELDING PROCESS,
    
20. CAST-IN-PLACE CONCRETE:
    
21. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
HATCHED AREA OF UPPER ROOF HAS BEEN DESIGNED FOR AN ADD.'L 5 PSF (MAX.) OF DL FOR FUTURE PV ARRAYS

DRIFT LENGTH
ADD.'L DRIFT
(MAX.), PSF
ADD.'L DRIFT
(MIN.), PSF

30 PSF SNOW DRIFT AREA

34 PSF

34 PSF

59 PSF

69 PSF
A.1

FLOOR OPENING

BM.-TO-BM.

10/26/2016 5:20:33 PM

VENEER LEDGER

COORD. REQ. W/ ARCH

ANGLE, TYP.

1 1/2" = 1'-0"

REF:  A/S400 1 FLOOR FRAMING DETAIL

BYPASS SLAB

ANGLE TO

REF. WALL SECTION FOR

SUPPORT

5/16" 3-12 STITCH FILLET WELD

99' - 7"

FDN. WALL REQ., TYP.

TYP.

CONTINUOUS L6x"A"x9/16"

VENEER LEDGER SIZED IN

BM.

3

S301

11

1 1/2" = 1'-0"

REF:  1/S202 9 FLOOR FRAMING DETAIL

2

S302

5/16"

2

S301

5/8" DIAM. x 6" HAS @ 12" O.C. (UNDERSIDE) &

CONTINUOUS L5x5x5/16 CLOSURE ANGLE W/

COORD. REQ. W/ ARCH

STL. STUD CURTAIN WALL,

STL. STUD WALL

S302

ANGLE, TYP.

BM., SEE PLAN FOR

COMPOSITE FLOOR

S301

4

LEVEL 1

CONN., TYP.

BM.-TO-BM.

CONN., TYP.

FLOOR BM., SEE PLAN

MEZZANINE

MTL. DECK, SEE PLAN

CONC. ON COMPOSITE

DECK, SEE PLAN FOR

CONC. ON COMPOSITE MTL.

4

100' - 0"

LEVEL 1

CONN., TYP.

BM.-TO-BM.

CONN., TYP.

114' - 0"

FLOOR DECK, SEE

PLAN FOR DECK

FLOOR BM., SEE PLAN

CALLOUT

PLAN FOR DECK

112' - 1 1/4"

1'0" OF WALL, CONT. AROUND

STRUCTURAL NOTES FOR

REF. WALL SECTION FOR

ATTACHMENT REQ.

FDN. WALL REQ., TYP.

GRADE, REF. STRUCT.

EXTERIOR SLAB-ON-

LEVEL 1

CONN., TYP.

BM.-TO-BM.

CONN., TYP.

5/16"

112' - 11"

114' - 0"

116' - 0"

1'0"

7.0°

4.8

SAME

0

RADIUS

112' - 1 1/4"

LEVEL 1

11

EXTERIOR DOOR, COORD.

CLOSURE ANGLE

T/W:

WEB

T/ST:

BM. FLANGE

BM. SEAT (IN BLUE) W/ 3/4"

VERTICAL STIFFENERS (IN

COL.

T/ST:

A

2"

1' - 4"

T/W:

5/16"

1/2" PJF

8.8°

7.0°

4"

1/8" / 12"


**PLUMBING FIXTURE SCHEDULE**

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<th>Material &amp; Finish</th>
<th>TRIM RL/ORL</th>
<th>WASTE</th>
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<td>COLD</td>
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<td>HOT</td>
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<td>REMARKS</td>
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<td>NA</td>
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<td>2&quot;</td>
<td>1-1/2&quot;</td>
<td>--</td>
<td>--</td>
<td>3.0</td>
<td>2.0</td>
</tr>
<tr>
<td>PROVIDE COMPLETE WITH NO HUB OUTLET</td>
<td>ROUND NICKEL</td>
<td>BRONZE</td>
<td>STRAINER HEAD</td>
<td>TRAP PRIMER</td>
<td>PROVIDE COMPLETE WITH NO HUB OUTLET</td>
<td>ROUND NICKEL</td>
<td>BRONZE</td>
</tr>
<tr>
<td>5.0*</td>
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</tr>
<tr>
<td>STRAINER HEAD</td>
<td>PORCELAIN</td>
<td>ENAMEL</td>
<td>LINED CAST IRON BODY</td>
<td>WITH ALUMINUM</td>
<td>PORCELAIN</td>
<td>ENAMEL</td>
<td>LINED CAST IRON BODY</td>
</tr>
<tr>
<td>2.0 3.0 8.0 1.5 1.5 3.0 2.0 4.0 4.0 2.5</td>
<td>FS-2 ZURN Z1901 12&quot;X12&quot;X8&quot; DEEP FLOOR SINK</td>
<td>WITH ALUMINUM</td>
<td>LINED CAST IRON BODY</td>
<td>WITH ALUMINUM</td>
<td></td>
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<tr>
<td>STATE UNIVERSITY</td>
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<tr>
<td>NOTES: PROVIDE ALL FIXTURES WITH APPROPRIATE COMMERCIAL GRADE SUPPORTS/CARRIERS, P-TRAPS, STOP VALVLES, BRAIDED FLEXIBLE PIPING INSULATION AND HAMMER ARRESTORS. PROVIDE AND INSTALL TRAP PRIMERS FOR ALL FLOOR DRAINS AND FLOOR SINKS UNLESS OTHERWISE INDICATED. INSTALL ALL TRAP PRIMERS IN RECESSED WALL MOUNTED BOXES IN AN ACCESSIBLE LOCATION. FIELD COORDINATE LOCATION OF TRAP PRIMERS WALL BOXES, WATER CLOSETS, LAVATORIES, AND URINALS FOR ADA COMPLIANCY WITH ARCHITECT/ENGINEER.</td>
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</tbody>
</table>

**NATURAL GAS SCHEDULE**

- 2.237 STEP-UP COUNTER RANGE: 180,000 BTU/HR
- 1.062 COUNTER GRIDDLE: 180,000 BTU/HR
- 2.246 PASTA COOKER: 106,000 BTU/HR
- 2.448 ROTATING TORTILLA GRILL: 50,000 BTU/HR
- 2.210 STONE HEARTH OVEN: 350,000 BTU/HR
- FUTURE GAS LOAD: 500,000 BTU/HR
- 1.072B 40 GAL. TILT KETTLE: 100,000 BTU/HR
- 1.071 20 QT. TILT COUNTER KETTLE: 31,000 BTU/HR

**DOMESTIC WATER SERVICE SIZING TABLE**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>BATHTUB OR COMBINATION BATH/SHOWER</td>
<td>2.0</td>
</tr>
<tr>
<td>CLOTHES WASHER</td>
<td>17</td>
</tr>
<tr>
<td>DRINKING FOUNTAIN OR WATER COOLER</td>
<td>0.0</td>
</tr>
<tr>
<td>HOSE BIBB</td>
<td>20</td>
</tr>
<tr>
<td>LAVATORY</td>
<td>17</td>
</tr>
<tr>
<td>WATER CLOSET, 1.6 GPF GRAVITY TANK</td>
<td>4.0</td>
</tr>
<tr>
<td>WASHFOUNTAIN</td>
<td>0.0</td>
</tr>
<tr>
<td>WATER CLOSET 1.6 GPF FLUSHOMETER VALVE</td>
<td>4.0</td>
</tr>
</tbody>
</table>

**SANITARY SEWER SERVICE SIZING TABLE**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>BATHTUB OR COMBINATION BATH/SHOWER (FILL)</td>
<td>0.03</td>
</tr>
<tr>
<td>CLOTHES WASHER</td>
<td>0.0000042500</td>
</tr>
<tr>
<td>DRINKING FOUNTAIN OR WATER COOLER</td>
<td>0.0</td>
</tr>
<tr>
<td>HOSE BIBB</td>
<td>0.0</td>
</tr>
<tr>
<td>LAVATORY</td>
<td>1.0</td>
</tr>
<tr>
<td>WATER CLOSET, 1.6 GPF GRAVITY TANK</td>
<td>3.0</td>
</tr>
<tr>
<td>WASHFOUNTAIN</td>
<td>0.0</td>
</tr>
<tr>
<td>WATER CLOSET 1.6 GPF FLUSHOMETER VALVE</td>
<td>4.0</td>
</tr>
</tbody>
</table>

**GREASE INTERCEPTOR SIZING**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>GREASE INTERCEPTOR FIXTURE UNITS</td>
<td>4.0</td>
</tr>
</tbody>
</table>

**TOTAL FIXTURE UNITS: 344**

**TOTAL REQUIRED CAPACITY: 3,377,000 BTU/HR**

**MAXIMUM FIXTURE UNITS ALLOWED: 428**

**TOTAL WSFU = 375.5**

**TOTAL PEAK FLOW = 24" DIA ACCESS WITH (TYP) 4" DIA VENT PIPE**

**TOTAL WASTE PIPE = 24" DIA ACCESS WITH (TYP) 6" PVC OUTLET**

**NOTES:**
- PROVIDE 2" MIN DRAIN
- SIZED REGARDING UPC TABLE 702.2 (b)
- FUTURE DOMESTIC WATER FIXTURE UNITS
- FUTURE SANITARY FIXTURE UNITS

**THE GREASE INTERCEPTOR SHALL BE SIZED IN ACCORDANCE WITH UNIFORM PLUMBING CODE.**

**REMARKS:**
- PROVIDE 2" MIN DRAIN
- SIZED REGARDING UPC TABLE 702.2 (b)
- PROVIDE 2" MIN DRAIN
GENERAL SITE ELECTRICAL NOTES

1. SEE SPECIFICATIONS FOR DETAILS ON TRANSFORMER, CABLE, TESTING, IDENTIFICATION, ETC.

STREET
ARRISON

B.) SEE CIVIL DRAWINGS FOR EXISTING SITE LIGHTING ETC WITH CIVIL & LANDSCAPE DRAWINGS.

STATE UNIVERSITY
MONTANA

NEW SITE LIGHTING FEEDER:
1"C, (2) #8, #10 GND. TYPICAL INTERCEPT EXISTING SITE HAND HOLE Z1(R)
Z2(R)
Z1(E)
Z1(R)
J J

KEY NOTES:

CONNECTION TO MAIN DISCONNECT SWITCH INSIDE ELECTRICAL ROOM. STUB (2) 2" CONDUITS THRU BASEMENT WALL TO SITE AS EXISTING PRIMARY DUCTBANK TO REMAIN FOUNDATION WALL (TO LCP1)

PROVIDE CONNECTION TO LIGHTED HANDRAIL (BY OTHERS).

FIELD LOT EAST LIN

NEW SECONDARY FEEDER TO MDS LOCATION IN Z2(R)
D-8 D-8
D-8

EXISTING PRIMARY DUCTBANK:
(6) 4/0 MV-90 CABLE STUB THRU FOUNDATION WALL INTO BASEMENT SPACE. FROM HERE, CONDUIT IS TO BE ROUTED OVERHEAD PARANTHESIS). DO NOT ROUTE UNDER BASEMENT SLAB.

EXISTING PRIMARY

NEW DINING HALL TRANSFORMER & VAULT SPLICE IN NEW CONDUIT AT THIS LOCATION.

EXISTING CHEM-BIO

TRANSFORMER & VAULT

E.5 PROVIDE 50A WEATHERPROOF RECEPTACLE, HUBBELL CS6369 & 50A WEATHERPROOF SPECIAL WEATHERPROOF COVER HBL7774WO.

NEW HANDHOLE TO TIE IN TO EXISTING SITE LIGHTING FEEDER.

NEW primary feeders:
(6) 4" CONDUIT SEE DETAIL 3 / ES02.

NEW HANDHOLE TO TIE IN TO AS REQUIRED.

EXISTING PRIMARY DUCTBANK:
SEE SEQUENCE OF OPERATION ON DETAIL 6 / ES02.

EXISTING CIRCUITING. RE-FEED NEW HANDHOLE TO TIE IN TO AS REQUIRED.

EXISTING CIRCUITING. RE-FEED NEW HANDHOLE TO TIE IN TO AS REQUIRED.

EXISTING POLE & HEAD TO REMAIN AS IS. 277V EXTERIOR LIGHTING AS SHOWN.

EXISTING POLE & HEAD, RELOCATED AS SHOWN ON PLANS. SEE DETAIL 2 ON THIS SHEET. 277V EXTERIOR LIGHTING AS SHOWN.

PHILLIPS 960C-S-4-UNIV-BLP, OR PRIOR APPROVED EQUAL.

SIDEWALK (WHERE PRESENT)
SIDEWALK (WHERE PRESENT)
SIDEWALK (WHERE PRESENT)
SIDEWALK (WHERE PRESENT)
SIDEWALK (WHERE PRESENT)

TRANSFORMER 9C-4

TRANSFORMER

DIRECT EMBEDDED TAPERED CONCRETE

DIRECT EMBEDDED TAPERED CONCRETE

SIDEWALK
SIDEWALK

CONDUIT OPENING
CONDUIT OPENING
CONDUIT OPENING
CONDUIT OPENING
CONDUIT OPENING

4'-8" POLE
4'-8" POLE
4'-8" POLE
4'-8" POLE
4'-8" POLE

1/16" = 1'-0" ES01 SHEET:

DATE STAMP:
PROPOSED ROUTE FROM MSU DINING HALL TO RENNIE LIBRARY FOR FIBER & TELEPHONE. PROVIDE 400 PAIR CABLE & MORE.

PROPOSED ROUTE FROM MSU DINING HALL TO SHERRICK HALL FOR FIBER & TELEPHONE. PROVIDE 400 PAIR CABLE, WITH A FIRE RETARDANT PVC JACKET.

PROPOSED ROUTE FROM SHERRICK HALL TO RENNIE LIBRARY FOR FIBER & TELEPHONE. PROVIDE 400 PAIR CABLE.

PROPOSED ROUTE FROM RENNIE LIBRARY TO RENNE LIBRARY FOR FIBER & TELEPHONE. PROVIDE 400 PAIR CABLE & MORE.

CONDUIT CAT6