RIVER VALLEY
ARCHITECTS, INC.
ROYAL
CONSTRUCTION

smiles in motion
Pediatric Dentistry

NEW BUILDING FOR:
SMILES IN MOTION
RICE LAKE, WI

GENERAL NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS INCLUDING LOCATIONS OF EXISTING UTILITIES AND EASEMENTS.
- ALL WORK SHALL BE IN COMPLIANCE WITH LOCAL, STATE AND NATIONAL CODES FOR RESPECTIVE TRADES.
- DO NOT SCALE DRAWINGS.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS.
- PROVIDE ILLUMINATED EXIT LIGHTS AT ALL EXTERIOR DOORS PER PLAN.
- PROVIDE FIRE EXTINGUISHERS AT THE LOCATIONS SHOWN ON THE PLANS.
- EXIT DOORS SHALL HAVE SUCH FASTENING OR HARDWARE THAT THEY CAN BE OPENED FROM THE INSIDE BY TURNING A SINGLE LEVER (USING A CLOSED FIST) WITHOUT THE USE OF A KEY.
- PROVIDE ACCESS FOR THE DISABLED IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT. ICC/ANSI A117.1-2009.
- PROVIDE A DESIGNATED SPACE ADJACENT TO THE BUILDING FOR THE SEPARATION, TEMPORARY STORAGE AND COLLECTION OF RECYCLABLE MATERIALS.
- DRAWINGS AND SPECIFICATIONS ARE TO BE CONSIDERED AS SUPPLEMENTING EACH OTHER. WORK SPECIFIED, BUT NOT SHOWN, OR SHOW, BUT NOT SPECIFIED SHALL BE PERFORMED AS THOUGH MENTIONED IN BOTH SPECIFICATIONS AND DRAWINGS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING EXPANSION/CONTROL JOINTS IN ALL MATERIALS, SYSTEMS AND BUILDING CONFIGURATIONS INCLUDING CAULKING AS REQUIRED. JOINTS SHALL BE PLACED NO MORE THAN 30 TIMES THE SLAB THICKNESS O.C. BOTH DIRECTIONS IN CONCRETE SLABS, 20' TO 25' O.C. FOR MASONRY WALLS AND 20' TO 30' O.C. BOTH DIRECTIONS FOR GYPSUM BOARD WALLS, SOFFITS, CEILINGS, ETC.
- THERE IS SOME OVERLAP BETWEEN ARCHITECTURAL AND STRUCTURAL PLANS. REVIEW COMPLETE PLANS FOR ARCHITECTURAL/STRUCTURAL WORK.
- INFORMATION PERTAINING TO EXISTING CONDITIONS IS BASED ON AVAILABLE RECORDS AND/OR VISUAL INSPECTION OF THE EXISTING CONDITIONS. WHILE SUCH DATA HAS BEEN COLLECTED WITH REASONABLE CARE, THERE IS NO EXPRESS OR IMPLIED GUARANTEE THAT CONDITIONS SO INDICATED ARE ENTIRELY REPRESENTATIVE OF THOSE ACTUALLY EXISTING. CONTRACTORS SHALL NOTIFY THE ARCHITECT AT ONCE OF ANY DISCREPANCIES BETWEEN THE DRAWINGS AND ACTUAL CONDITIONS ENCOUNTERED. ALL EXISTING BUILDING/FLOOR HEIGHTS AND DIMENSIONS WHERE NEW WORK OCCURS SHALL BE VERIFIED BY ALL TRADES PRIOR TO STARTING CONSTRUCTION.
- THE OWNER AND/OR CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING BUILDING FLOOR ELEVATION. SLOPE GRADE AWAY FROM BUILDING TO INSURE PROPER DRAINAGE OF ALL SURFACES. VERIFY BUILDING ELEVATION AND ALL SITE GRADING WITH OWNER. ALL GRADING WORK OF MORE THAN ONE ACRE SHALL REQUIRE A WATER RESOURCES APPLICATION FOR PROJECT PERMITS (WRAPP) BE FILED WITH THE DNR.
- THE OWNER AND/OR CLIENT HAS ASSUMED RESPONSIBILITY FOR ALL BIDDING, CONSTRUCTION OBSERVATION AND RELATED DETAILS.
- ALL DETAILS NOT INDICATED SHALL BE THE RESPONSIBILITY OF THE OWNER AND CONTRACTOR.

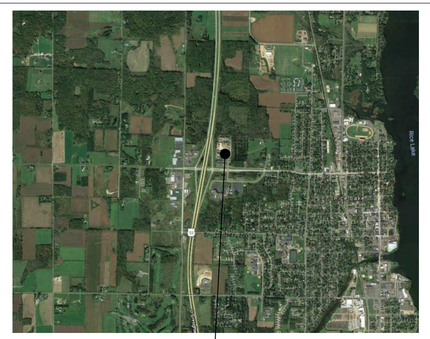
BUILDING INFORMATION

- BUILDING OCCUPANCY:
  B - BUSINESS
- CONSTRUCTION TYPE:
  VB WOOD CONSTRUCTION, UNPROTECTED
- FIRE PROTECTION:
  NONE

BUILDING AREAS	
FIRST FLOOR	7,130 SF
TOTAL=	7,130 SF

NOTE: SEE SHEET A0.2 FOR ADDITIONAL PROJECT INFORMATION /CODE DATA

LOCATION MAP



PROJECT LOCATION:
840 BEAR PAW AVE
RICE LAKE, WI 54868

NORTH
W E
S

PROJECT DIRECTORY

OWNER:
SMILES IN MOTION
583 LAKELAND DRIVE
CHIPPEWA FALLS, WI 54729
PHONE: 715.723.2000

ARCHITECT:
RIVER VALLEY ARCHITECTS, INC.
1403 122nd STREET - SUITE C
CHIPPEWA FALLS, WI 54729
PHONE: 715.832.0875

CIVIL DESIGN:
ADVANCED ENGINEERING CONCEPTS
1360 INTERNATIONAL DRIVE
EAU CLAIRE, WI 54701
PHONE: 715.514.4116

STRUCTURAL DESIGN:
ERICKSEN ROED & ASSOCIATES
3410 OAKWOOD MALL DRIVE
EAU CLAIRE, WI 54701
PHONE: 715.552.5336

GENERAL CONTRACTOR:
ROYAL CONSTRUCTION
3653 GREENWAY ST
EAU CLAIRE, WI 54701
PHONE: 715.832.1986

SHEET INDEX

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A0.1 TITLE SHEET, LOCATION MAP AND DRAWING CONVENTIONS
A0.2 FIRST LEVEL CODE PLAN

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1 TITLE SHEET
2 EXISTING CONDITIONS AND DEMO PLAN
3 SITE PLAN
4 UTILITY PLAN
5 GRADING PLAN
6 EROSION CONTROL PLAN
7 DETAILS
8 DETAILS

ARCHITECTURAL
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A2.0 WALL TYPES
A2.1 FIRST LEVEL FLOOR PLAN
A2.2 FIRST LEVEL DIMENSION PLAN
A2.3 FIRST LEVEL EQUIPMENT PLAN
A2.4 FIRST LEVEL REFLECTED CEILING PLAN
A2.5 ROOF PLAN
A3.1 FIRST LEVEL FINISH PLAN
A3.2 ROOM FINISH SCHEDULE & MATERIAL LEGEND
A4.1 INTERIOR ELEVATIONS
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A5.2 DOOR AND WINDOW DETAILS
A6.1 EXTERIOR 3D VIEWS
A6.2 EXTERIOR ELEVATIONS
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A8.1 INTERIOR DETAILS

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S1.1 GENERAL STRUCTURAL NOTES
S1.2 TYPICAL FOUNDATION, CONCRETE WALL SECTIONS AND DETAILS
S1.3 TYPICAL SLAB ON GRADE SECTIONS AND DETAILS
S1.4 TYPICAL FOUNDATION SCHEDULES
S1.5 TYPICAL FOUNDATION SCHEDULES AND DETAILS
S1.6 TYPICAL FRAMING DETAILS
S2.0 FOUNDATION PLAN
S2.1 ROOF FRAMING PLAN

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NEW BUILDING FOR:
SMILES IN MOTION
RICE LAKE, WI

DATE: 11.8.2018	
MARK	DATE

SHEET NO.
A0.1

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LEGEND

MEANS OF EGRESS:

- EGRESS PATH
- EXIT LIGHT

FIRE EXTINGUISHERS:

- F.E. — FIRE EXTINGUISHER
- F.E.C. — FIRE EXTINGUISHER CABINET

PROJECT INFORMATION / CODE DATA

- **APPLICABLE CODES:**
  2015 INTERNATIONAL BUILDING CODE WITH WISCONSIN AMENDMENTS

  ENTIRE BUILDING SHALL COMPLY WITH THE A117.1 ACCESSIBILITY STANDARD 2009 EDITION
- **BUILDING OCCUPANCY:**
  B - BUSINESS
- **CONSTRUCTION TYPE:**
  VB WOOD CONSTRUCTION, UNPROTECTED
- **FIRE PROTECTION:**
  NONE
- **ALLOWABLE HEIGHT AND AREA:**
  ALLOWABLE BUILDING HEIGHT: 2 STORIES, 40 FT.
  ALLOWABLE BUILDING AREA: 9,000 SQ. FT.

BUILDING AREAS

FIRST FLOOR	7,130 SF
TOTAL=	7,130 SF

OCCUPANCY CALCULATIONS

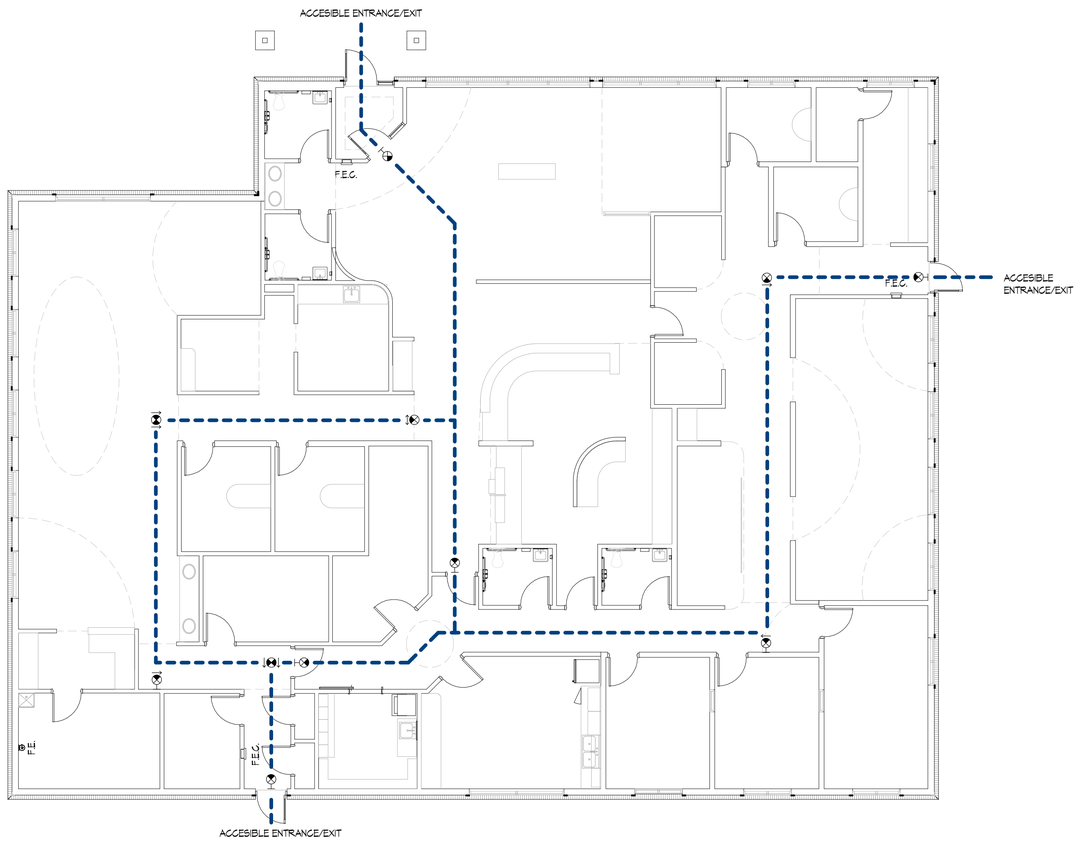
FIRST FLOOR	59
TOTAL OCCUPANT LOAD =	59

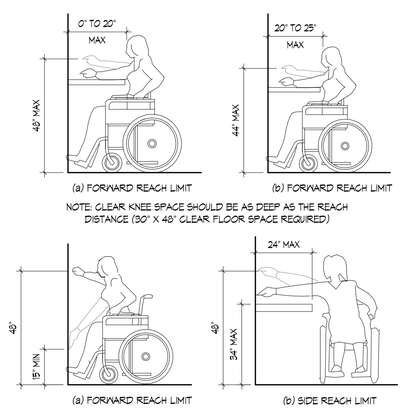
EXIT REQUIREMENTS

LEVEL	OCCUPANCY LOAD	EGRESS WIDTH REQUIRED (INCHES)	EGRESS WIDTH PROVIDED (INCHES)
FIRST FLOOR	59	11.9	108

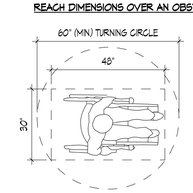
PLUMBING FIXTURE COUNTS

FIXTURE	REQUIRED	PROVIDED
WATER CLOSETS (MALE)	1	2
URINALS	0	0
WATER CLOSETS (FEMALE)	2	2
LAVATORIES (MALE)	1	2
LAVATORIES (FEMALE)	1	2
WATER COOLERS	1	1
SERVICE SINKS	1	1





REACH DIMENSIONS OVER AN OBSTRUCTION



MINIMUM CLEAR FLOOR SPACE

ACCESSIBILITY DIAGRAMS

N.T.S.

W S NORTH E

1 / A0.2 FIRST LEVEL CODE PLAN

1/8" = 1'-0"

0' 4' 8' 16'

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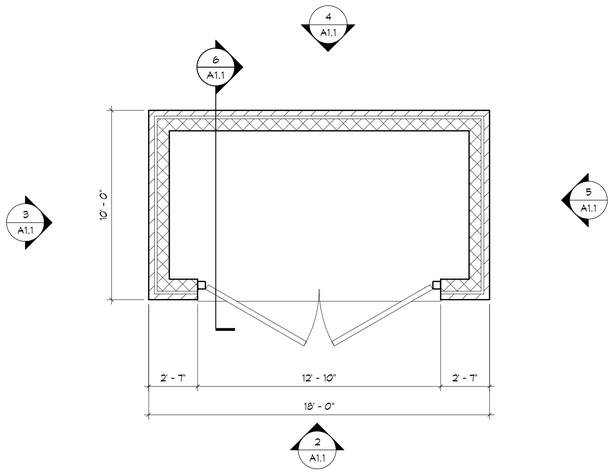
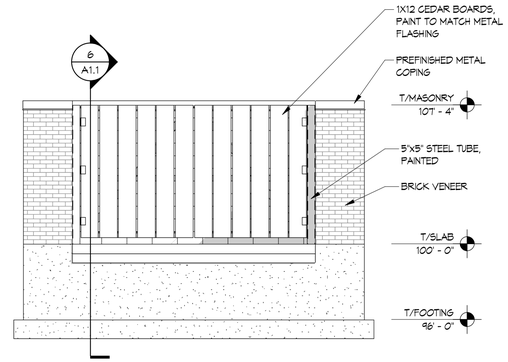
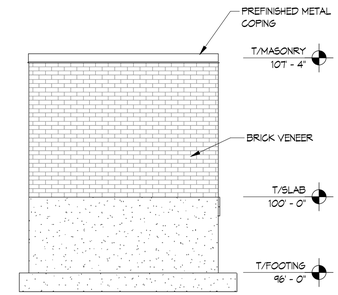


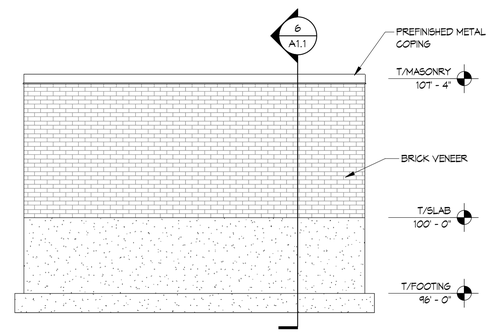
1 A1.1 TRASH ENCLOSURE PLAN
1/4" = 1'-0"



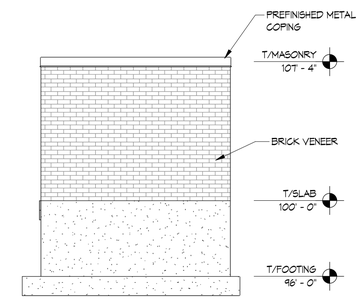
2 A1.1 SOUTH ELEVATION
1/4" = 1'-0"



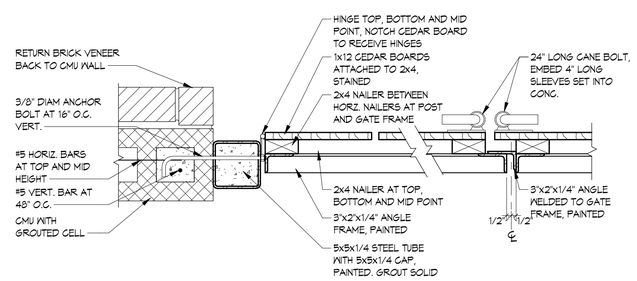
3 A1.1 WEST ELEVATION
1/4" = 1'-0"



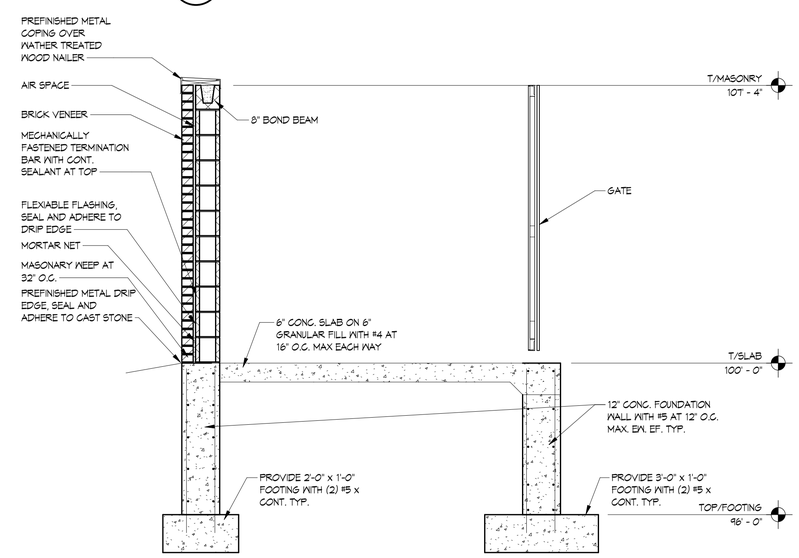
4 A1.1 NORTH ELEVATION
1/4" = 1'-0"



5 A1.1 EAST ELEVATION
1/4" = 1'-0"



7 A1.1 POST/GATE DETAIL
1 1/2" = 1'-0"



6 A1.1 TRASH ENCLOSURE SECTION
1/2" = 1'-0"

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DATE: 11.8.2018

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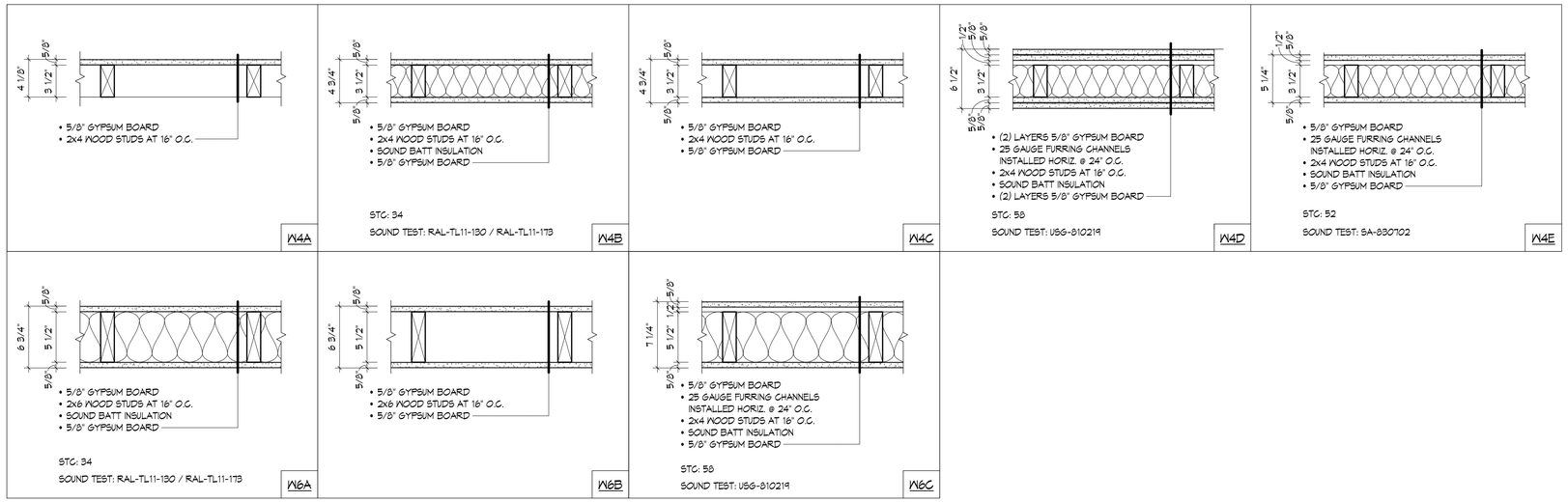
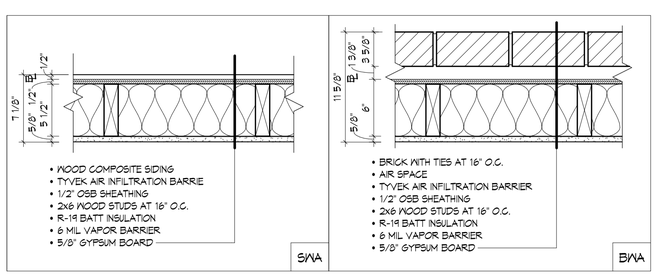


INTERIOR WALL TYPES

1 1/2" = 1'-0"



EXTERIOR WALL TYPES

1 1/2" = 1'-0"

EXTERIOR WALL TYPES LEGEND

EXTERIOR WALL TAG SYMBOL

B/W A.1
- INDICATES THE WALLS EXTERIOR FINISH MATERIAL
- INDICATES THE WALLS CORE MATERIAL
- INDICATES WALL VARIATION
- IF SHOWN - INDICATES WALL FIRE RATING

WALL CORE MATERIAL
C DENOTES: CMU
M DENOTES: METAL STUD
W DENOTES: WOOD STUD
S DENOTES: SHAFT WALL

EXTERIOR FINISH MATERIAL
B DENOTES: BRICK
C DENOTES: CMU/CAST STONE
E DENOTES: EIFS
M DENOTES: METAL PANEL
S DENOTES: STONE

INTERIOR WALL TYPES LEGEND

INTERIOR WALL TAG SYMBOL

W/A A.1
- INDICATES THE PARTITIONS CORE MATERIAL
- INDICATES THE STUD/CMU SIZE TYPE
- INDICATES PARTITION VARIATION
- IF SHOWN - INDICATES PARTITION FIRE/SMOKE RATING

PARTITION STUD/CMU SIZE
1 DENOTES: 1 7/8" STL STUD, 3/4" WD STUD
2 DENOTES: 1 5/8" STL STUD, 1 1/2" WD STUD
3 DENOTES: 2 1/2" STL STUD, 2 1/2" WD STUD
4 DENOTES: 3 5/8" STL STUD, 3 1/2" WD STUD, 3 5/8" CMU
6 DENOTES: 6" STL STUD, 5 1/2" WD STUD, 5 5/8" CMU
8 DENOTES: 8" STL STUD, 7 1/2" WD STUD, 7 5/8" CMU
10 DENOTES: 10" STL STUD, 9 1/2" WD STUD, 9 5/8" CMU
12 DENOTES: 12" STL STUD, 11 5/8" CMU
16 DENOTES: 15 5/8" CMU

PARTITION CORE MATERIAL
C DENOTES: CMU
M DENOTES: METAL STUD
W DENOTES: WOOD STUD
S DENOTES: SHAFT WALL

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NEW BUILDING FOR:
SMILES IN MOTION
RICE LAKE, WI

DATE: 11.9.2018	
MARK	DATE
1	11.15.18

SHEET NO.
A2.0

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LEGEND

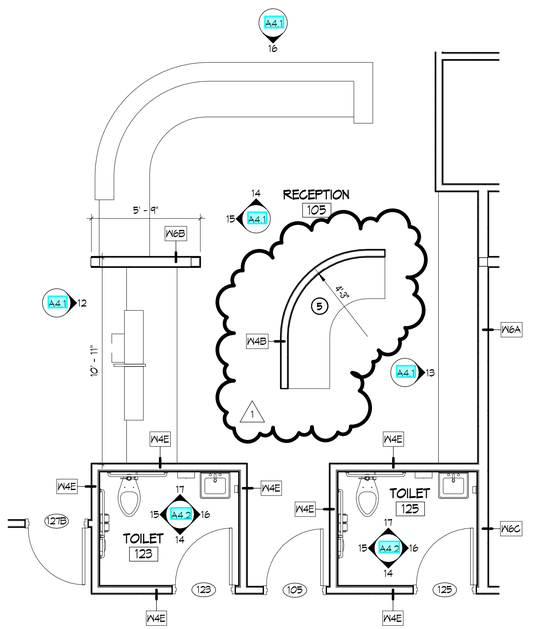
ROOM NAME 101	INDICATES ROOM NAME AND NUMBER
W4A.1	INDICATES WALL TYPE
W#	INDICATES WINDOW OR BORROWED LITE TYPE
101	INDICATES DOOR TYPE

GENERAL FLOOR PLAN NOTES

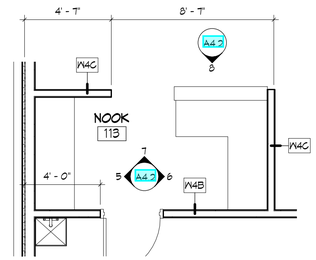
A. ALL INTERIOR DIMENSIONS ARE FROM FACE OF STUD/ MASONRY CONSTRUCTION TO FACE OF STUD/MASONRY CONSTRUCTION, UNLESS NOTED OTHERWISE.
B. "CLEAR DIMENSIONS" ARE DIMENSIONED FROM FACE OF FINISH MATERIAL TO FACE OF FINISH MATERIAL.
C. FOR WALL TYPES SEE SHEET A2.0.
D. GENERAL CONTRACTOR SHALL COORDINATE WITH OWNER, BEFORE INSTALLATION OF GYPSUM BOARD, ANY WOOD BLOCKING, BACKING AND MOUNTING BOARDS REQUIRED FOR OWNER PROVIDED ITEMS.
E. ALL WALLS TO GO TIGHT TO STRUCTURE ABOVE, UNLESS NOTED OTHERWISE.

KEYED FLOOR PLAN NOTES

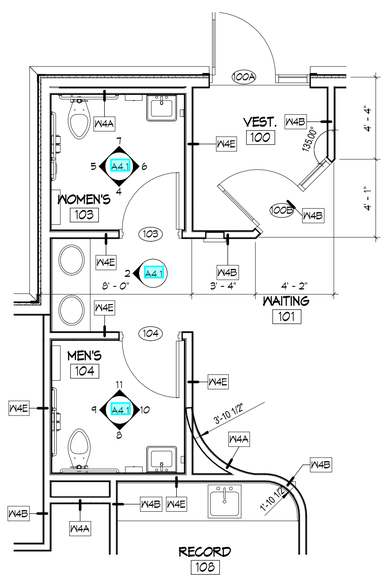
1. FIRE EXTINGUISHER AND FIRE EXTINGUISHER CABINET.
2. WALL MOUNTED FIRE EXTINGUISHER.
3. CARD READER, BY OTHER.
4. 20" x 6'-0" BENCH.
5. BUILT-IN DESK, COORDINATE LAYOUT/DESIGN WITH OWNER AND CABINET MANUFACTURER. CONTRACTOR TO COORDINATE WALL LOCATION AND LAYOUT.



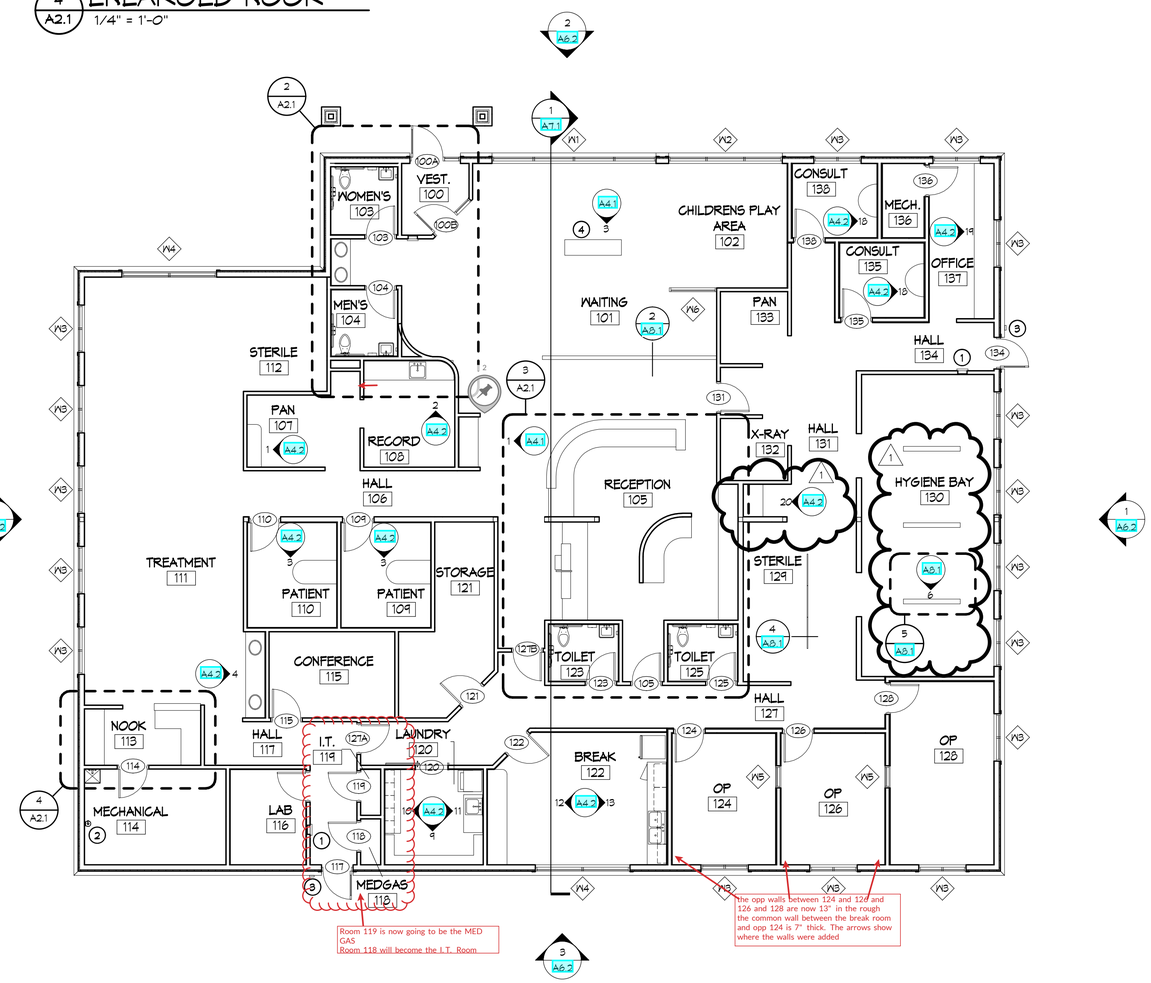
3 A2.1 ENLARGED FLOOR PLAN
1/4" = 1'-0"



4 A2.1 ENLARGED NOOK
1/4" = 1'-0"



2 A2.1 ENLARGED FLOOR PLAN
1/4" = 1'-0"



1 A2.1 FIRST LEVEL FLOOR PLAN
1/8" = 1'-0"

W
S NORTH
E

0' 4' 8' 16'

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GENERAL FLOOR PLAN NOTES

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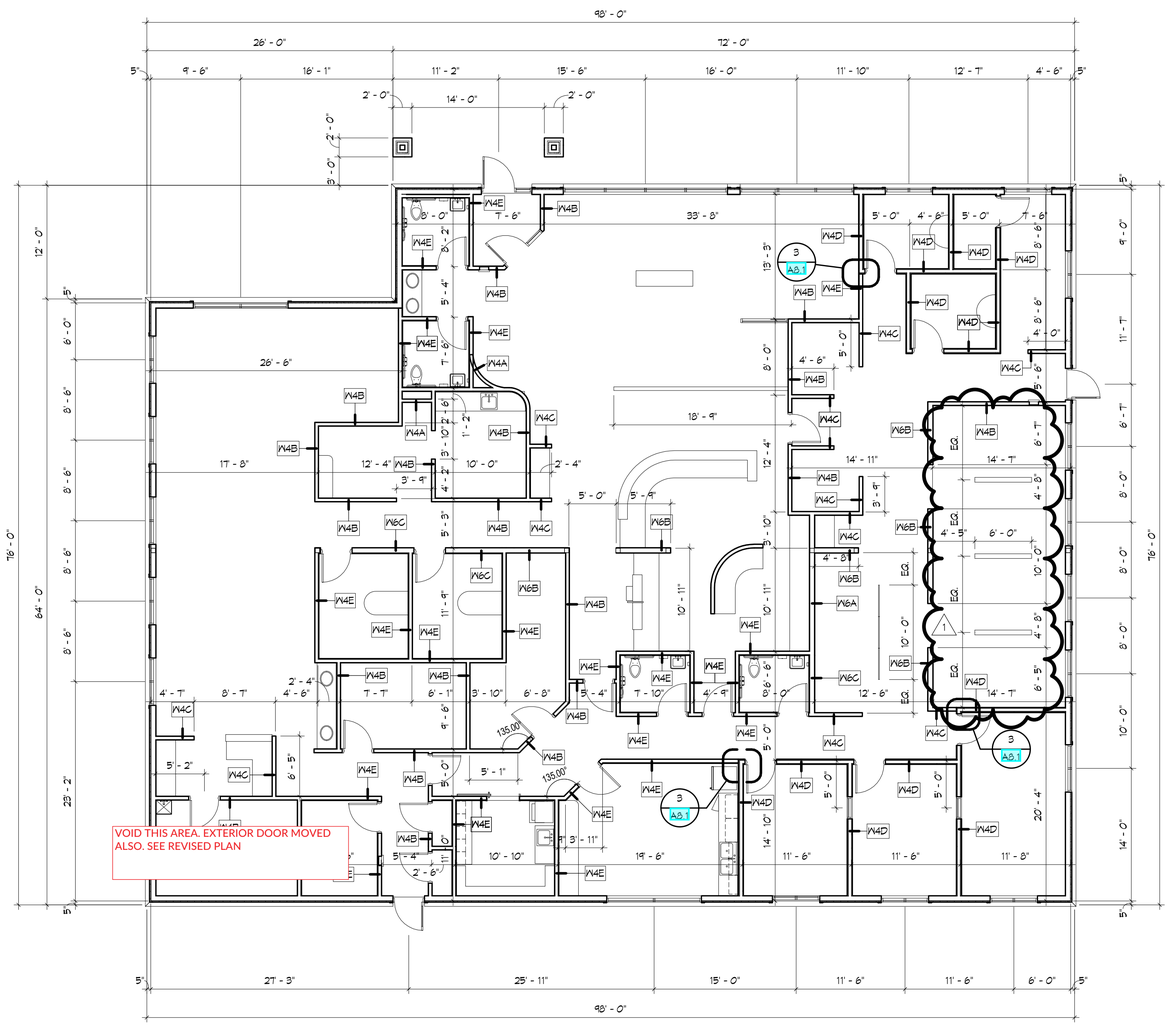

NORTH

1 A2.2 FIRST LEVEL DIMENSION PLAN
1/8" = 1'-0"

0' 4' 8' 16'

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1	11.30.18

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A2.2

DRAWN BY: NML

JOB NO. 18-075

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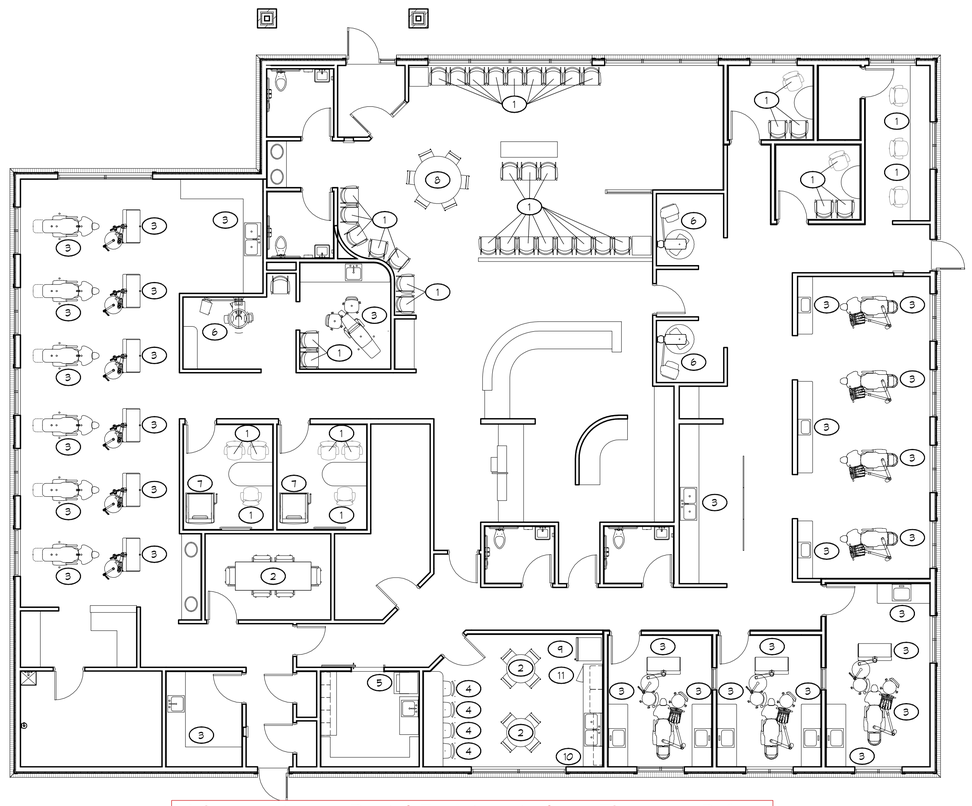
GENERAL EQUIPMENT PLAN NOTES

A. EQUIPMENT PLAN SHOWN FOR REFERENCE ONLY. ACTUAL FURNITURE AND EQUIPMENT QUANTITIES AND LAYOUTS MAY VARY, VERIFY ACTUAL QUANTITIES AND LAYOUTS WITH OWNER.
B. GENERAL CONTRACTOR SHALL COORDINATE WITH OWNER BEFORE INSTALLATION OF GYPSUM BOARD FOR ANY WOOD BLOCKING, BACKING, AND MOUNTING BOARDS REQUIRED FOR OWNER PROVIDED ITEMS.

EQUIPMENT SCHEDULE

TAG	DESCRIPTION
1	CHAIR
2	TABLE & CHAIRS
3	DENTAL EQUIPMENT PROVIDED BY OTHERS
4	STOOL
5	WASHER/DRYER
6	PAN/X-RAY EQUIPMENT
7	PATIENT RECLINER
8	TABLE & CHAIRS WITH IPOD STATION
9	REFRIGERATOR
10	DISHWASHER
11	U/C FREEZER



Make sure to use Dental Equiptment plans. These are Ref Only

W
S NORTH
E

1 / A2.3 FIRST LEVEL EQUIPMENT PLAN
1/8" = 1'-0"

0' 4' 8' 16'

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RIVER VALLEY ARCHITECTS, INC.

NEW BUILDING FOR:
SMILES IN MOTION
RICE LAKE, WI

DATE: 11.8.2018

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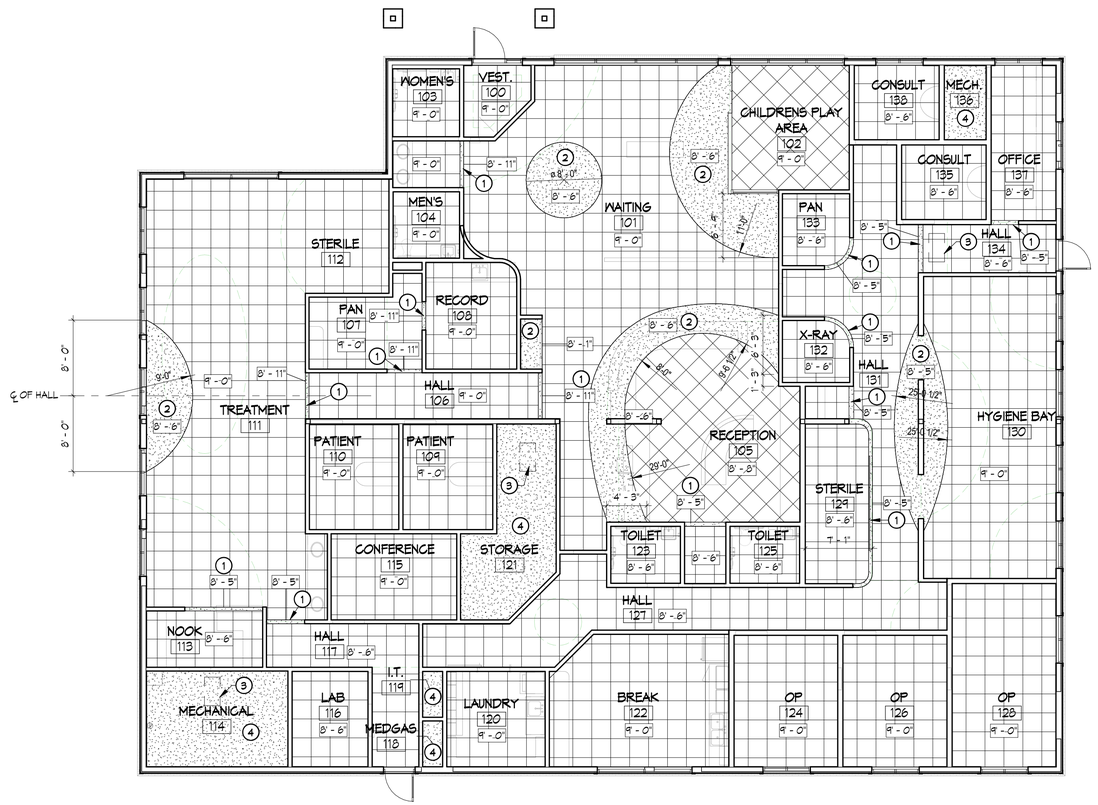
GENERAL RCP NOTES

A. CONTRACTOR SHALL FOLLOW CEILING GRID PATTERN ESTABLISHED ON THE REFLECTED CEILING PLAN. ANY VARIATIONS SHALL BE APPROVED BY THE ARCHITECT.
B. CONTRACTORS SHALL MOUNT SPRINKLER HEADS, SPEAKERS AND AIR DIFFUSERS IN THE CENTER OF WHOLE CEILING PANELS.

KEYED RCP NOTES

1. BULKHEAD: 5/8" GYPSUM BOARD ON WOOD FRAMING AT 16" O.C.
2. SOFFIT: 5/8" GYPSUM BOARD ON WOOD FRAMING AT 16" O.C.
3. ATTIC ACCESS HATCH, 20"X36"
4. EXPOSED GYPSUM WALL BOARD SHEATHING AT UNDERSIDE OF ROOF TRUSSES.



W S NORTH E

1 / A2.4 FIRST LEVEL REFLECTED CEILING PLAN
1/8" = 1'-0"

0' 4' 8' 16'

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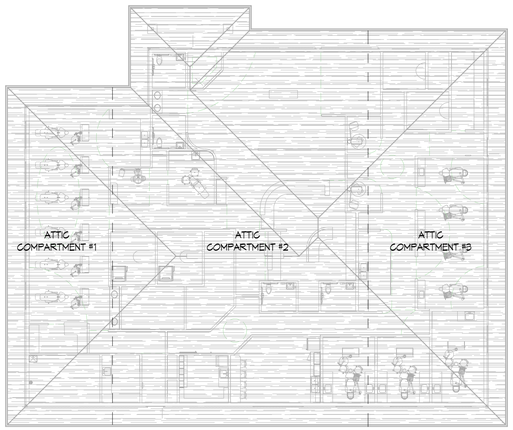
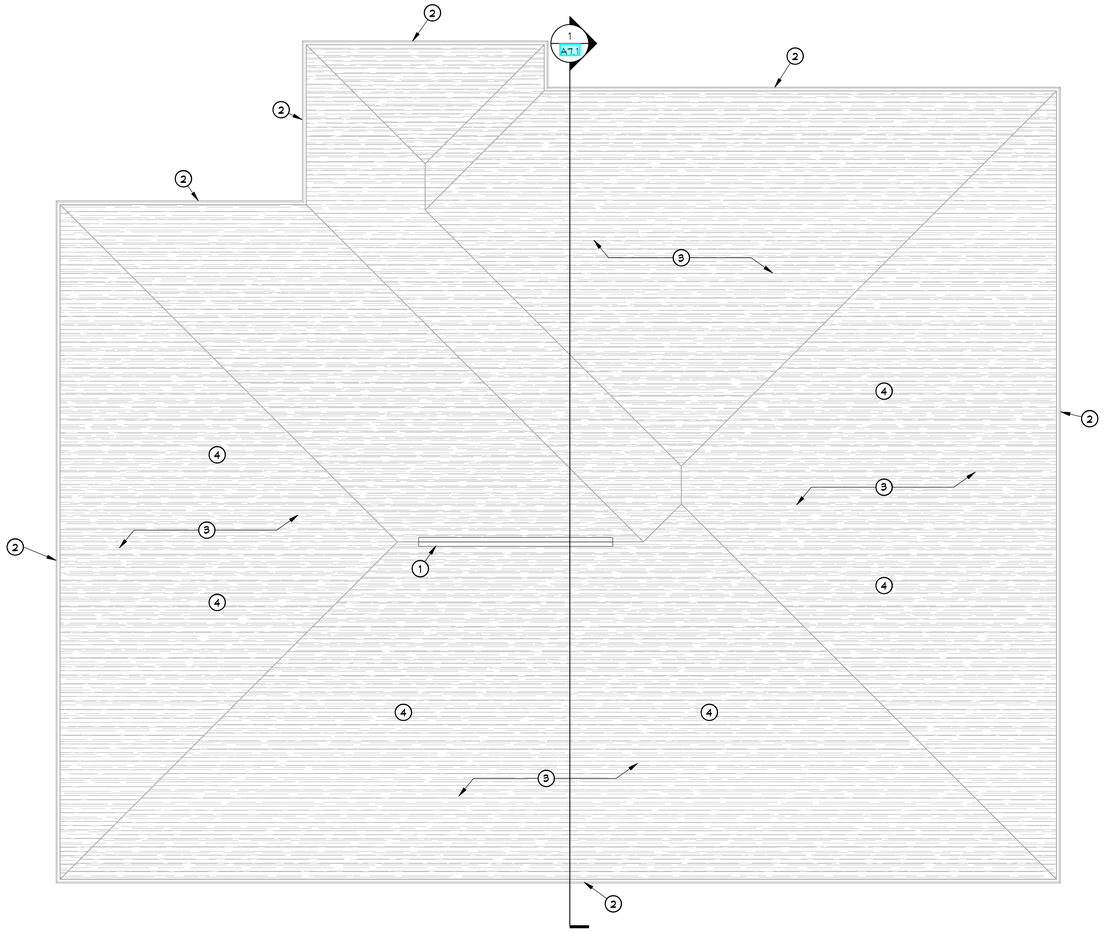
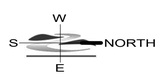


2 A2.5 ATTIC COMPARTMENT PLAN
1/16" = 1'-0"





1 A2.5 ROOF PLAN
1/8" = 1'-0"

0' 4' 8' 16'

GENERAL ROOF PLAN NOTES

A. PROVIDE ICE & WATER DAM PROTECTION AT BUILDING PERIMETER - MIN. 6'-0" UP FROM EXTERIOR WALL EDGE. ADJUST MATERIAL TO MAINTAIN THE 6'-0" MIN. AS THE EXTERIOR WALL JOGS IN AND OUT.
B. PROVIDE ICE & WATER DAM PROTECTION AT ALL EAVES, VALLEYS, CHANGE IN ROOF HEIGHTS, AND ELSEWHERE AS RECOMMENDED BY MATERIAL SUPPLIER.
C. PAINT ALL EXPOSED ROOF VENTS, PIPES, DUCTS, EQUIPMENT, AND OTHER EXPOSED ITEMS TO MATCH ROOF COLOR. PRIME WITH METAL COMPATIBLE PRIMER, THEN PAINT.
D. VERIFY MECH. ROOF PENETRATION WITH M.E.P. LOCATE PENETRATIONS AT INCONSPICIOS LOCATIONS WHERE POSSIBLE.

KEYED ROOF PLAN NOTES

1. CONTINUOUS RIDGE VENT.
2. PREFINISHED SEAMLESS ALUMINUM GUTTER.
3. ASPHALT SHINGLES OVER 15# FELT.
4. PREFINISHED ALUMINUM ROOF VENT.

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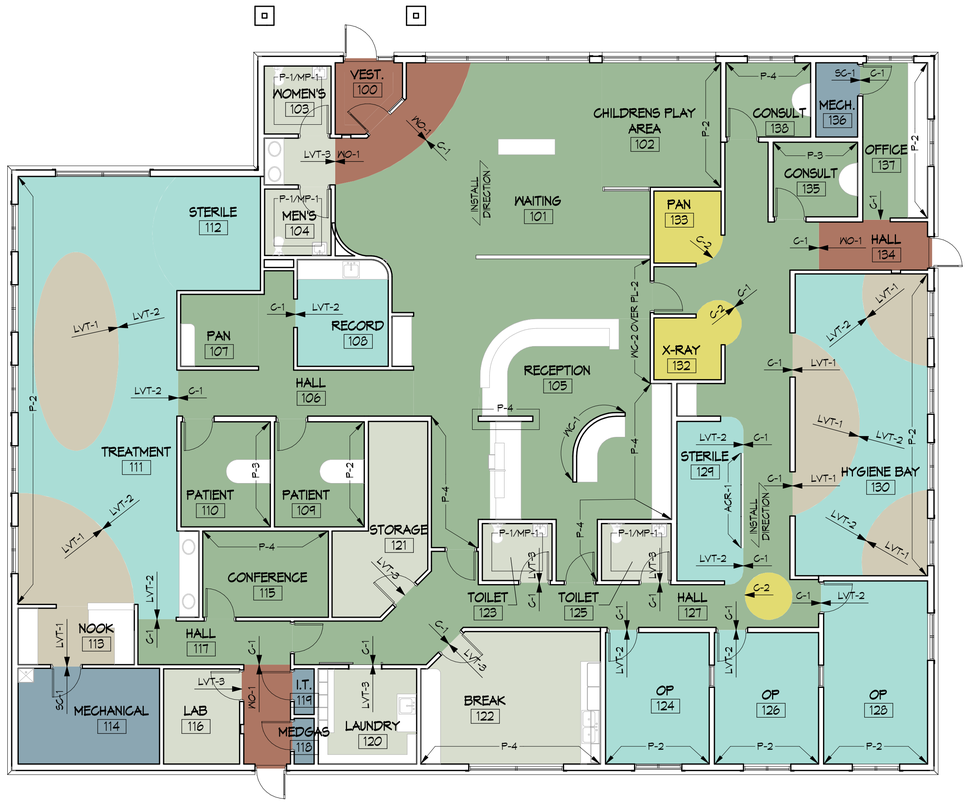
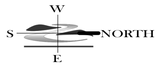
FINISH PLAN LEGEND

- C-1
- C-2
- LVT-1
- LVT-2
- LVT-3
- SC-1
- WO-1
- Calculating...

NOTE:
VERIFY ALL ACCENT PAINT LOCATIONS W/OWNER.





1 / A3.1 FIRST LEVEL FINISH PLAN
1/8" = 1'-0"

0' 4' 8' 16'

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EXTERIOR MATERIAL LEGEND - OPTION 1

MATERIAL	MANUFACTURER	DESCRIPTION	COLOR	NOTES
ALUMINUM FRAMED STOREFRONTS	KAWNEER	ALUMINUM DOORS, FRAMES, AND WINDOWS	DARK BRONZE	
ASPHALT SHINGLES	GAF	TIMBERLINE	MISSION BROWN	
MODULAR BRICK	SIOUX CITY BRICK	SIZE: MODULAR, TEXTURE: VELOUR	BIG HORN	
PREFINISHED METAL	ROLLEX	PREFINISHED METAL DRIP EDGE, FASCIA, AND SOFFIT	BRONZE	
WOOD COMPOSITE LAP SIDING	LP SMARTSIDE	76 SERIES SMARTLOCK CEDAR TEXTURE LAP SIDING	DIAMOND KOTE: PLATINUM	
WOOD COMPOSITE TRIM	LP SMARTSIDE	54 SERIES CEDAR TEXTURE TRIM	DIAMOND KOTE: CLAY	

EXTERIOR MATERIAL LEGEND - OPTION 2

MATERIAL	MANUFACTURER	DESCRIPTION	COLOR	NOTES
ALUMINUM FRAMED STOREFRONTS	KAWNEER	ALUMINUM DOORS, FRAMES, AND WINDOWS	DARK BRONZE	
ASPHALT SHINGLES	GAF	TIMBERLINE	CHARCOAL	
MODULAR BRICK	ENDICOTT	SIZE: MODULAR, TEXTURE: VELOUR	SIENNA IRONSPOT	
PREFINISHED METAL	ROLLEX	PREFINISHED METAL DRIP EDGE, FASCIA, AND SOFFIT	MATCH ALUMINUM FRAMED STOREFRONTS	
WOOD COMPOSITE LAP SIDING	LP SMARTSIDE	76 SERIES SMARTLOCK CEDAR TEXTURE LAP SIDING	DIAMOND KOTE: PELICAN	
WOOD COMPOSITE TRIM	LP SMARTSIDE	54 SERIES CEDAR TEXTURE TRIM	DIAMOND KOTE: SMOKY ASH	

ROOM FINISH SCHEDULE

ROOM		FLOOR		WALLS								CEILING		
				NORTH		EAST		SOUTH		WEST				
NO.	NAME	FINISH	BASE FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	NOTES
100	VEST.	WO-1	CTB-1	GYP. BD.	P-1	GYP. BD.	P-1	GYP. BD.	P-1	GYP. BD.	P-1	ACT-1	PREFIN.	
101	WAITING	C-1	RB-1	GYP. BD.	P-1	GYP. BD.	P-1	GYP. BD.	P-1	GYP. BD.	P-1	ACT-1	PREFIN.	
102	CHILDRENS PLAY AREA	C-1	RB-1	GYP. BD.	P-2	GYP. BD.	P-1	-	-	GYP. BD.	P-1	ACT-1	PREFIN.	
103	WOMEN'S	LVT-3	CT-1	GYP. BD.	P-1/MP-1	GYP. BD.	P-1/MP-1	GYP. BD.	P-1/MP-1	GYP. BD.	P-1/MP-1	ACT-2	PREFIN.	
104	MEN'S	LVT-3	CT-1	GYP. BD.	P-1/MP-1	GYP. BD.	P-1/MP-1	GYP. BD.	P-1/MP-1	GYP. BD.	P-1/MP-1	ACT-2	PREFIN.	
105	RECEPTION	C-1	RB-1	GYP. BD.	P-1	GYP. BD.	P-1	GYP. BD.	-	-	-	ACT-1	PREFIN.	
106	HALL	C-1	RB-1	-	-	GYP. BD.	P-1	-	-	GYP. BD.	P-1	ACT-1	PREFIN.	
107	PAN	C-1	RB-1	GYP. BD.	P-1	GYP. BD.	P-1	GYP. BD.	P-1	GYP. BD.	P-1	ACT-1	PREFIN.	
108	RECORD	LVT-2	RB-2	GYP. BD.	P-1	GYP. BD.	P-1	GYP. BD.	P-1	GYP. BD.	P-1	ACT-1	PREFIN.	
109	PATIENT	C-1	RB-1	GYP. BD.	P-2	GYP. BD.	P-1	GYP. BD.	P-1	GYP. BD.	P-1	ACT-1	PREFIN.	
110	PATIENT	C-1	RB-1	GYP. BD.	P-3	GYP. BD.	P-1	GYP. BD.	P-1	GYP. BD.	P-1	ACT-1	PREFIN.	
111	TREATMENT	LVT-2	RB-2	GYP. BD.	P-1	GYP. BD.	P-1	GYP. BD.	P-2	GYP. BD.	P-1	ACT-1	PREFIN.	
112	STERILE	LVT-2	RB-2	GYP. BD.	P-1	GYP. BD.	P-1	-	-	GYP. BD.	P-1	ACT-1	PREFIN.	
113	NOOK	LVT-1	RB-2	GYP. BD.	P-1	GYP. BD.	P-1	GYP. BD.	P-1	GYP. BD.	P-1	ACT-1	PREFIN.	
114	MECHANICAL	SC-1	RB-1	GYP. BD.	P-1	GYP. BD.	P-1	GYP. BD.	P-1	GYP. BD.	P-1	GYP. BD.	P-1	
115	CONFERENCE	C-1	RB-1	GYP. BD.	P-1	GYP. BD.	P-1	GYP. BD.	P-1	GYP. BD.	P-4	ACT-1	PREFIN.	
116	LAB	LVT-3	RB-2	GYP. BD.	P-1	GYP. BD.	P-1	GYP. BD.	P-1	GYP. BD.	P-1	ACT-1	PREFIN.	
117	HALL	C-1	RB-1	GYP. BD.	P-1	GYP. BD.	P-1	GYP. BD.	P-1	GYP. BD.	P-1	ACT-1	PREFIN.	
118	MEDGAS	SC-1	RB-1	GYP. BD.	P-1	GYP. BD.	P-1	GYP. BD.	P-1	GYP. BD.	P-1	GYP. BD.	P-1	
119	I.T.	SC-1	RB-1	GYP. BD.	P-1	GYP. BD.	P-1	GYP. BD.	P-1	GYP. BD.	P-1	GYP. BD.	P-1	
120	LAUNDRY	LVT-3	RB-2	GYP. BD.	P-1	GYP. BD.	P-1	GYP. BD.	P-1	GYP. BD.	P-1	ACT-1	PREFIN.	
121	STORAGE	LVT-3	RB-2	GYP. BD.	P-1	GYP. BD.	P-1	GYP. BD.	P-1	GYP. BD.	P-1	GYP. BD.	P-1	
122	BREAK	LVT-3	RB-2	GYP. BD.	P-1	GYP. BD.	P-4	GYP. BD.	P-1	GYP. BD.	P-1	ACT-1	PREFIN.	
123	TOILET	LVT-3	CT-1	GYP. BD.	P-1/MP-1	GYP. BD.	P-1/MP-1	GYP. BD.	P-1/MP-1	GYP. BD.	P-1/MP-1	ACT-2	PREFIN.	
124	OP	LVT-2	RB-2	GYP. BD.	P-1	GYP. BD.	P-2	GYP. BD.	P-1	GYP. BD.	P-1	ACT-1	PREFIN.	
125	TOILET	LVT-3	CT-1	GYP. BD.	P-1/MP-1	GYP. BD.	P-1/MP-1	GYP. BD.	P-1/MP-1	GYP. BD.	P-1/MP-1	ACT-2	PREFIN.	
126	OP	LVT-2	RB-2	GYP. BD.	P-1	GYP. BD.	P-2	GYP. BD.	P-1	GYP. BD.	P-1	ACT-1	PREFIN.	
127	HALL	C-1	RB-1	GYP. BD.	P-1	GYP. BD.	P-1	GYP. BD.	P-1	GYP. BD.	P-1	ACT-1	PREFIN.	
128	OP	LVT-2	RB-2	GYP. BD.	P-1	GYP. BD.	P-2	GYP. BD.	P-1	GYP. BD.	P-1	ACT-1	PREFIN.	
129	STERILE	LVT-2	RB-2	-	-	GYP. BD.	P-1	GYP. BD.	P-1	GYP. BD.	P-1	ACT-1	PREFIN.	
130	HYGIENE BAY	LVT-2	RB-2	GYP. BD.	P-2	GYP. BD.	P-1	GYP. BD.	P-1	GYP. BD.	P-1	ACT-1	PREFIN.	
132	X-RAY	C-2	RB-1	GYP. BD.	P-1	GYP. BD.	P-3	GYP. BD.	P-1	GYP. BD.	P-1	ACT-1	PREFIN.	
133	PAN	C-2	RB-1	GYP. BD.	P-1	GYP. BD.	P-1	GYP. BD.	P-1	GYP. BD.	P-5	ACT-1	PREFIN.	
134	HALL	WO-1	RB-2	GYP. BD.	P-1	GYP. BD.	P-1	-	-	GYP. BD.	P-1	ACT-1	PREFIN.	
135	CONSULT	C-1	RB-1	GYP. BD.	P-1	GYP. BD.	P-1	GYP. BD.	P-1	GYP. BD.	P-3	ACT-1	PREFIN.	
136	MECH.	SC-1	RB-1	GYP. BD.	P-1	GYP. BD.	P-1	GYP. BD.	P-1	GYP. BD.	P-1	GYP. BD.	P-1	
137	OFFICE	C-1	RB-1	GYP. BD.	P-2	GYP. BD.	P-1	GYP. BD.	P-1	GYP. BD.	P-1	ACT-1	PREFIN.	
138	CONSULT	C-1	RB-1	GYP. BD.	P-1	GYP. BD.	P-1	GYP. BD.	P-1	GYP. BD.	P-4	ACT-1	PREFIN.	
139	Room	C-2												

2

MATERIAL LEGEND

MATERIAL	KEY	DESCRIPTION	MANUFACTURER & COLOR/PATTERN	TYPICAL LOCATION	NOTES	MANUF. REPRESENTATIVE CONTACT
ACOUSTIC CEILING TILE	ACT-1	ACOUSTICAL CEILING TILE	USG, RADAR CLIMAPLUS 'SLT' 24"X24"X5/8"	TYPICAL THROUGHOUT	WHITE GRID: DX/DXL	
	ACT-2	VINYL COATED CEILING TILE	USG, SHEETROCK LAY-IN CLIMAPLUS 24"X24"X1/2"	TOILET ROOMS	WHITE GRID: DX/DXL	
CONCRETE	SC-1	SEALED CONCRETE	SEALED CONCRETE	SEE FINISH PLAN		
CARPET	C-1	CARPET TILE	MANNINGTON, COLLECTION: URBAN PATINA, STYLE: ELEVATION, COLOR: METRO #14215, SIZE: 18"X36" INSTALLATION: ASHLAR	SEE FINISH PLAN		
	C-2	CARPET ACCENT (BROADLOOM)	SHAW CONTRACT, STYLE: UTOPIAN #50515, COLOR: SPROUT #43326, SIZE: 12' ROLL BROADLOOM	CARPET ACCENT		SHAW CONTRACT, BRAD RYAN brad.ryan@shawinc.com
	WO-1	WALK-OFF CARPET	PATCRAFT, ~~CALYPSOTILE~~, COLOR: CHARCOAL ~~#00590~~ I0304-590; Walk Right In II Modular 24"x24"	SEE FINISH PLAN	Revision Per Email From RVA 12/16/18	
GLAZING/ACRYLIC	ACR-1	ACRYLIC PANEL	LUMICOR, STYLE: MIANZI, SIZE: 3/8" THICK	SEE FINISH PLAN		
PAINT	P-1	PAINT - TYPICAL WALL	SHERWIN WILLIAMS SW6672 'MORNING SUN'	TYPICAL WALL COLOR	SATIN FINISH; SEMI-GLOSS @ TOILET ROOMS	
	P-2	PAINT - ACCENT	SHERWIN WILLIAMS SW6674 'JONQUIL'	YELLOW ACCENT	SATIN FINISH	
	P-3	PAINT - ACCENT	BENJAMIN MOORE 2172-30 'MEXICANA'	RED ACCENT	SATIN FINISH	
	P-4	PAINT - ACCENT	SHERWIN WILLIAMS SW0042 'RUSKIN ROOM GREEN'	GREEN ACCENT	SATIN FINISH	
	P-5	PAINT - ACCENT	SHERWIN WILLIAMS SW6634 'COPPER HARBOR'	ORANGE ACCENT	SATIN FINISH	
	P-6	PAINT - HM FRAMES	TIMELY FRAMES: SC103 - BLACK	TIMELY FRAMES	PREFINISHED BY MFGR.	
SOLID SURFACE	SS-1	SOLID SURFACE	LG HI MACS, "GRAPHITE GRANITE" G103	RECEPTION TRANS TOP & IPAD STATION TOP		
	SS-2	SOLID SURFACE	LG HI MACS, "GRAY GRANITE" G17	RECEPTION WORK TOP		
	SS-3	SOLID SURFACE	WORTH BAER SUPPLY COMPANY, 909 SURFACES, PRIMA COLLECTION, NN4211-PM50-72	HALL WORKSTATION, TOOTHBRUSH STATION, X-RAY		
	SS-4	SOLID SURFACE	WORTH BAER SUPPLY COMPANY, 909 SURFACES, FOUNDATION COLLECTION, NN435-CM50-72	STERILE, OPERATORIES, HYGIENE		
	SS-5	SOLID SURFACE	LG HI MACS, "ARMADILLO" GT909	VANITY TOPS & WINDOW SILLS		
PLASTIC LAMINATE	PL-1	CASEWORK	PIONITE WX031 SUEDE, 'PEARWOOD'	RECEPTION DESK		
	PL-2	WALL ACCENT	CHEMETAL 444, 'FEATHERED ALUMINUM'	SEE FINISH PLAN & INTERIOR ELEVATIONS		
	PL-3	CASEWORK	FORMICA 6206-43 'PLANKED DELUXE, PEAR' ARTISAN FINISH	HALL WORKSTATION, TOOTHBRUSH STATION, X-RAY		
	PL-4	CASEWORK	WILSONART 4940K-18 'ASTRO STRANZ'	STERILE, OPERATORIES, HYGIENE		
	PL-5	CASEWORK	FORMICA 8841-WR 'WHITE ASH WOODBRUSH'	LAB, BREAK ROOM, LAUNDRY		
	PL-6	COUNTERTOP	NEVAMAR VA7002 NON-TEXTURED 'COOLCHIC'	LAB, BREAK ROOM, LAUNDRY	EDGE PROFILE: SQUARE	
RESILIENT	LVT-1	LUXURY VINYL TILE	PATCRAFT, TYPOGRAPHY COLLECTION, STYLE: LETTERPRESS, COLOR: PUNCTUATE, SIZE: 24"X24"	SEE FINISH PLAN & ROOM FINISH SCHEDULE	INSTALLATION: MONOLITHIC	PATCRAFT, JONI JUERGENS, 608.215.9837
	LVT-2	LUXURY VINYL TILE	PATCRAFT, TYPOGRAPHY COLLECTION, STYLE: TYPEFACE, COLOR: PUNCTUATE, SIZE: 24"X24"	SEE FINISH PLAN & ROOM FINISH SCHEDULE	INSTALLATION: MONOLITHIC	PATCRAFT, JONI JUERGENS, 608.215.9837
	LVT-3	LUXURY VINYL TILE	PATCRAFT, REMOVE LVT, COLOR: NEUTRAL TINT 00130, SIZE: 12"x24"	SEE FINISH PLAN & ROOM FINISH SCHEDULE	INSTALLATION: HERRINGBONE PATTERN	PATCRAFT, JONI JUERGENS, 608.215.9837
	RB-1	RESILIENT BASE	JOHNSONITE TRADITIONAL WALL BASE, COLOR: 63 BURNT UMBER	TYPICAL AT CARPET TILE, SEE ROOM FINISH SCH.	4" Not Necessary In Lab 116, Laundry 120, & Storage 121.	
	RB-2	RESILIENT BASE	JOHNSONITE TRADITIONAL WALL BASE, COLOR: 48 GREY	TYPICAL AT LVT, SEE ROOM FINISH SCHEDULE	4"	
	RT-1	RESILIENT TRANSITION	JOHNSONITE, COLOR: 63 BURNT UMBER, SLT-63-H	CARPET TILE TO LVT-1 & LVT-2		
	RT-2	RESILIENT TRANSITION	JOHNSONITE, COLOR: 63 BURNT UMBER, CRS-63-A	CARPET TILE TO SEALED CONCRETE		
DOORS	PD-1	PLASTIC LAMINATE DOORS	FORMICA, 6206-30 'PLANKED DELUXE, PEAR' ARTISAN FINISH	TYPICAL INTERIOR DOOR		
WALL COVERING	WC-1	DIGITAL WALL COVERING	DIGITAL WALL COVERING BY OWNER	SEE FINISH PLAN	WALL SHALL NOT BE TEXTURED TO RECEIVED WC-1	
	WC-2	DIMENSION WALL	MDC DIMENSION WALL, PATTERN: ADIRONDACK, COLOR: WHITE	SEE FINISH PLAN		
	MP-1	METAL PANEL (GALVANIZED)	FINISH TO BE CONFIRMED W/OWNER	SEE FINISH PLAN	PROVIDE RECEIVER CHANNEL AT CAP	

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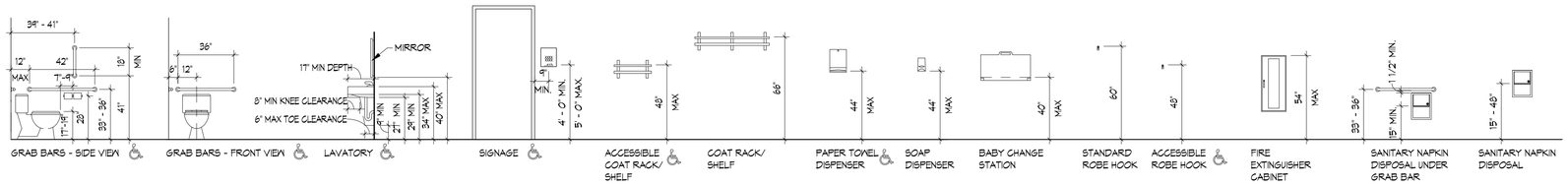

STANDARD MOUNTING HEIGHTS

1/4" = 1'-0"

NOTE

1. THIS DRAWINGS CONTAINS STANDARD SYMBOLS AND DETAILS. NOT ALL ITEMS APPEAR IN THESE DRAWINGS.
2. CONTRACTOR SHALL PROVIDE FIRE TREATED WOOD BLOCKING IN DRYWALL PARTITIONS FOR MOUNTING OF WALL ATTACHED ITEMS INCLUDING, BUT NOT LIMITED TO; GRAB BARS, CABINETS/SHELVING, TOILET PARTITIONS, ACCESSORIES AND DOOR BUMPER STOPS.
3. STANDARD MOUNTING HEIGHTS APPLY TO DRAWINGS UNLESS INDICATED OTHERWISE.

KEYED INTERIOR ELEVATION NOTES

1. PLAM FILLER.
2. 6" DIAMETER GARBAGE DROP.
3. PLAM COUNTERTOP WITH BACKSPLASH.
4. SOAP DISPENSER, BY OWNER.
5. PAPER TOWEL DISPENSER, BY OWNER.
6. 18"X36" MIRROR.
7. TOILET PAPER DISPENSER.
8. GRAB BARS.
9. SANITARY NAPKIN DISPENSER.
10. PLAM COUNTERTOP.
11. WALL BRACKET.
12. PLAM TRANSACTION TOP.
13. WALL MOUNTED TV.
14. ADJUSTABLE STAINLESS STEEL SUPPORT POST.
15. PLAM DIVIDER PANEL, TYPICAL.
16. 12" DEEP PLAM SHELF.
17. STAINLESS STEEL HANGING ROD.
18. HASP LOCK, TYPICAL AT ALL LOCKERS.
19. 24"X36" MIRROR.
20. STACKED WASHER AND DRYER, BY OWNER.
21. PLAM BENCH TOP.
22. REFRIGERATOR, BY OWNER.
23. UNDERCOUNTER FREEZER, BY OWNER.
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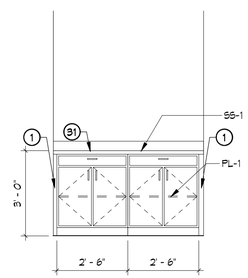
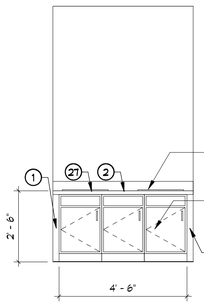
33. OPEN PLAM CABINETS.
34. BABY CHANGING STATION.
35. MAIL SLOTS.



1 A4.1 WAITING #101
3/8" = 1'-0"



2 A4.1 WAITING #101
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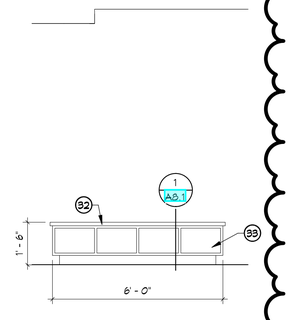
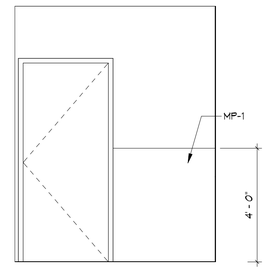


3 A4.1 WAITING #101
3/8" = 1'-0"



4 A4.1 WOMEN'S #103
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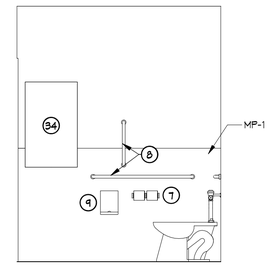

5 A4.1 WOMEN'S #103
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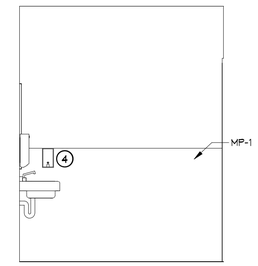

6 A4.1 WOMEN'S #103
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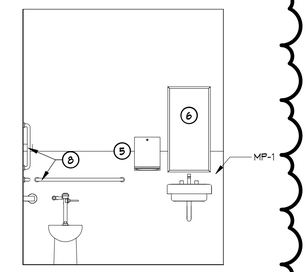

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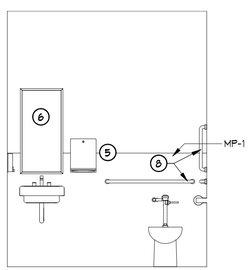

8 A4.1 MEN'S #104
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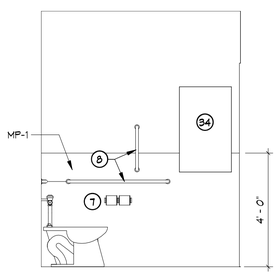

9 A4.1 MEN'S #104
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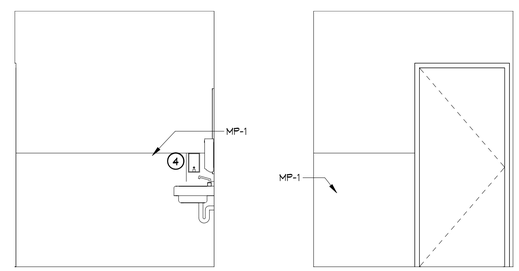
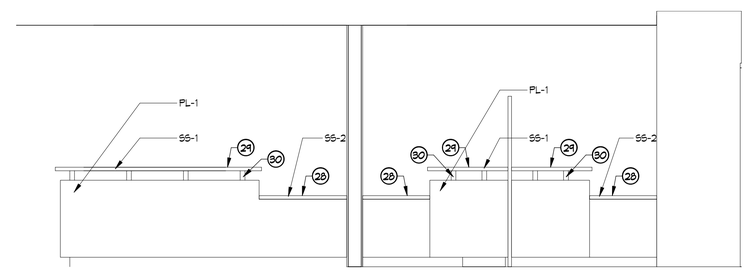
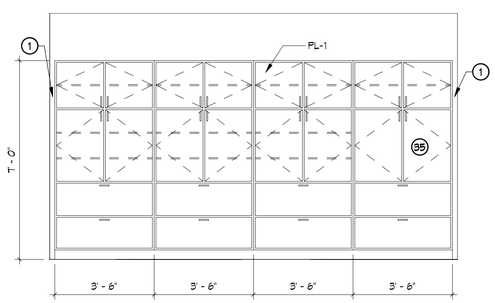


10 A4.1 MEN'S #104
3/8" = 1'-0"

11 A4.1 MEN'S #104
3/8" = 1'-0"



12 A4.1 RECEPTION #105
3/8" = 1'-0"



13 A4.1 RECEPTION #105
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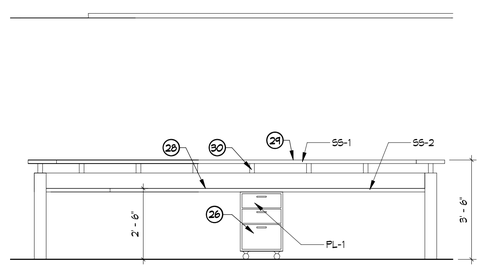

14 A4.1 RECEPTION #105
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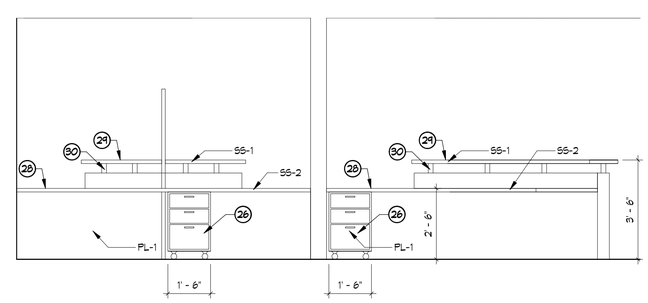
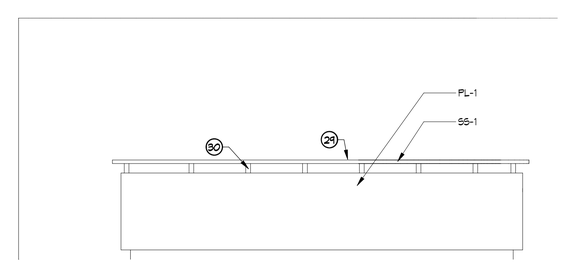


15 A4.1 RECEPTION #105
3/8" = 1'-0"



16 A4.1 RECEPTION #105
3/8" = 1'-0"

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FAX: 715.726.1668
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NEW BUILDING FOR:
SMILES IN MOTION
RICE LAKE, WI

DATE: 11.8.2018

MARK	DATE
2	12.06.18

SHEET NO.
A4.1

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JOB NO. 18-075

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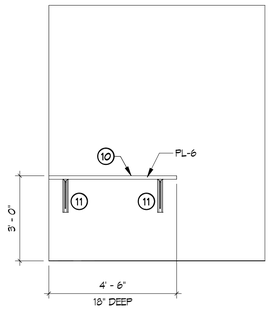

1 A4.2 PAN #107
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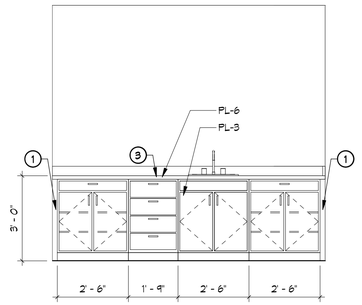

2 A4.2 RECORD #108
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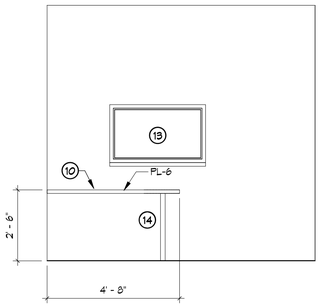

3 A4.2 PAITENT #110
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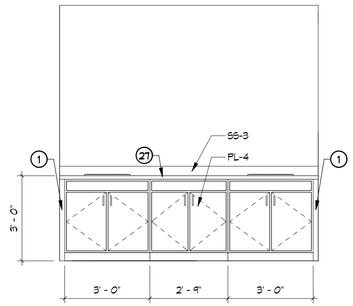

4 A4.2 TREATMENT #111
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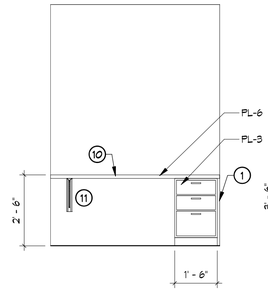
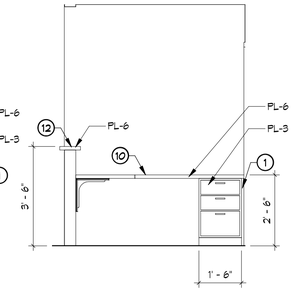
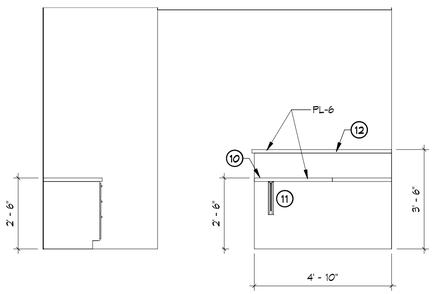


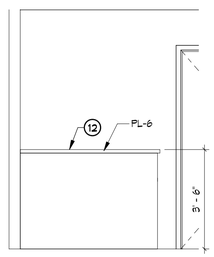
5 A4.2 NOOK #113
3/8" = 1'-0"



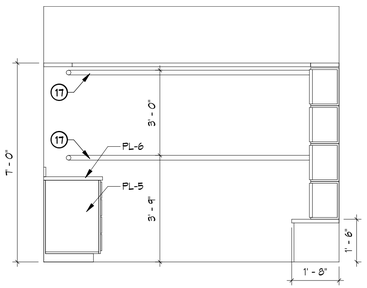
6 A4.2 NOOK #113
3/8" = 1'-0"



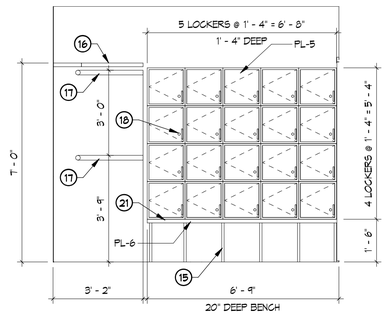
7 A4.2 NOOK #113
3/8" = 1'-0"



8 A4.2 NOOK #113
3/8" = 1'-0"



9 A4.2 LAUNDRY #120
3/8" = 1'-0"



10 A4.2 LAUNDRY #120
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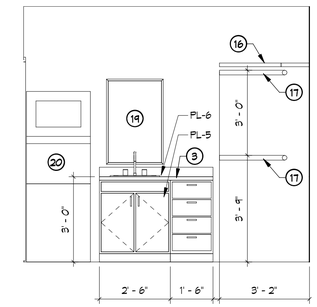
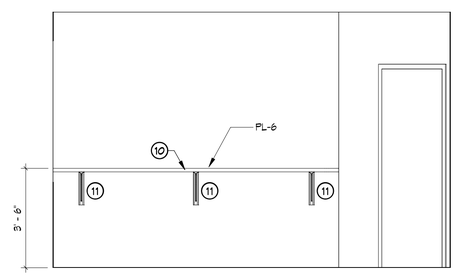


11 A4.2 LAUNDRY #120
3/8" = 1'-0"



12 A4.2 BREAK #122
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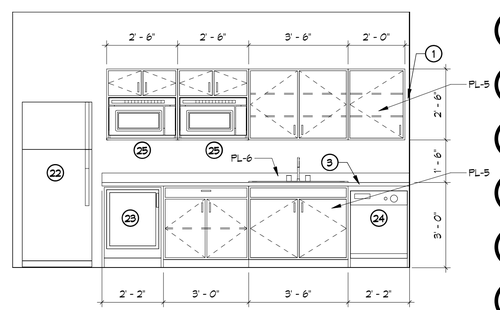

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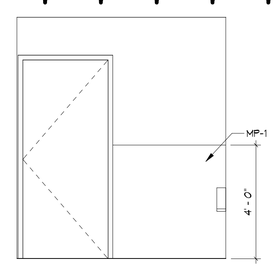
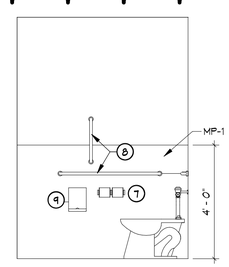
3/8" = 1'-0"



14 A4.2 TOILET #125
3/8" = 1'-0"



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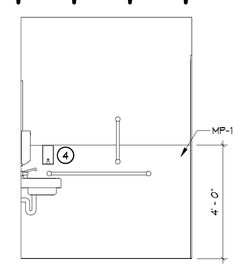

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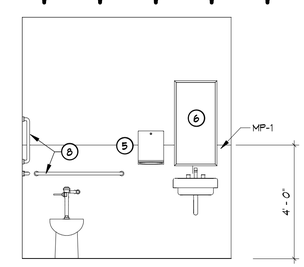

17 A4.2 TOILET #125
3/8" = 1'-0"

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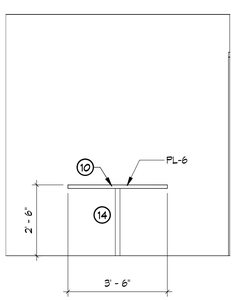

18 A4.2 CONSULT #135
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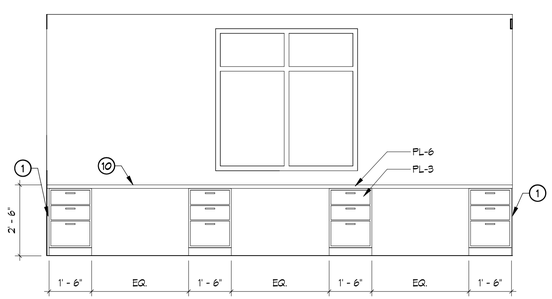

19 A4.2 OFFICE #137
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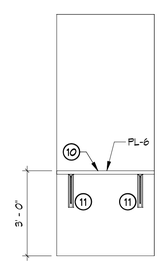

20 A4.2 HALL #131
3/8" = 1'-0"

KEYED INTERIOR ELEVATION NOTES

1. PLAM FILLER.
2. 6" DIAMETER GARBAGE DROP.
3. PLAM COUNTERTOP WITH BACKSPLASH.
4. SOAP DISPENSER, BY OWNER.
5. PAPER TOWEL DISPENSER, BY OWNER.
6. 18"X36" MIRROR.
7. TOILET PAPER DISPENSER.
8. GRAB BARS.
9. SANITARY NAPKIN DISPENSER.
10. PLAM COUNTERTOP.
11. WALL BRACKET.
12. PLAM TRANSACTION TOP.
13. WALL MOUNTED TV.
14. ADJUSTABLE STAINLESS STEEL SUPPORT POST.
15. PLAM DIVIDER PANEL, TYPICAL.
16. 12" DEEP PLAM SHELF.
17. STAINLESS STEEL HANGING ROD.
18. HASP LOCK, TYPICAL AT ALL LOCKERS.
19. 24"X36" MIRROR.
20. STACKED WASHER AND DRYER, BY OWNER.
21. PLAM BENCH TOP.
22. REFRIGERATOR, BY OWNER.
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29. SOLID SURFACE TRANSACTION TOP.
30. STAINLESS STEEL STAND-OFFS.
31. SOLID SURFACE COUNTERTOP WITH INTEGRAL BACKSPLASH.
32. SOLID SURFACE BENCH.
33. OPEN PLAM CABINETS.
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SMILES IN MOTION
RICE LAKE, WI

DATE: 11.8.2018	
MARK	DATE
2	12.06.18

SHEET NO.
A4.2

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JOB NO. 18-075

12/6/2018 10:41:32 AM C:\Revit Locals\18-075 Smiles in Motion - Rice Lake_dakotar.rvt

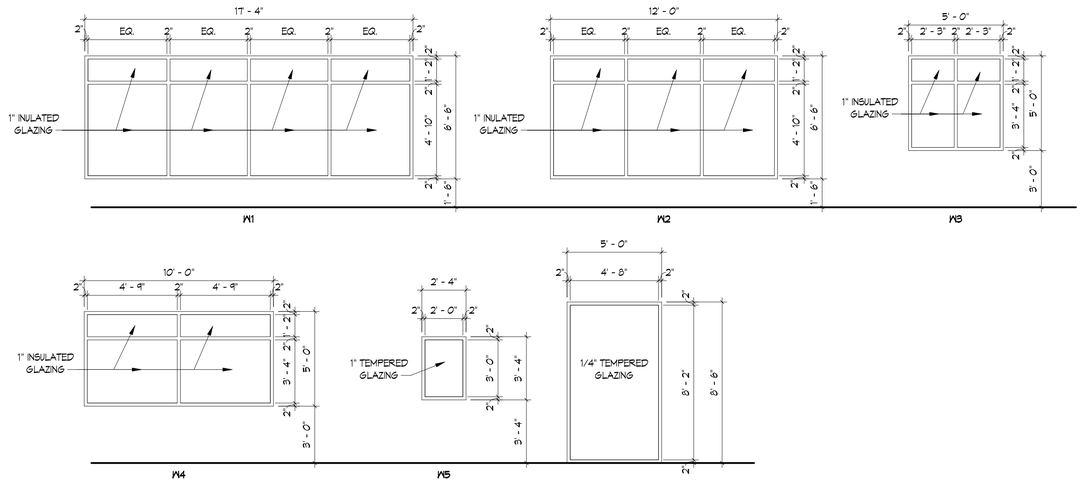
DOOR SCHEDULE

DOOR NUMBER	HARDWARE GROUP	DOOR TYPE	DOOR MATERIAL	DOOR WIDTH	DOOR HEIGHT	LOUVER	FIRE RATING	FRAME TYPE	FRAME MATERIAL	FRAME HEAD	FRAME JAMB	FRAME SILL	NOTES
100A	8	B	ALUMINUM	3' - 4"	7' - 10"	-	-	AL-2	ALUMINUM	1/A5.2	3/A5.2, 5/A5.2	4/A5.2	
100B	7	B	ALUMINUM	3' - 0"	7' - 0"	-	-	AL-3	ALUMINUM	2/A5.1	2/A5.1	-	
103	2	A	WOOD	3' - 0"	7' - 0"	-	-	HM-1	HOLLOW METAL	1/A5.1	1/A5.1	-	
104	2	A	WOOD	3' - 0"	7' - 0"	-	-	HM-1	HOLLOW METAL	1/A5.1	1/A5.1	-	
105	3	A	WOOD	3' - 0"	7' - 0"	-	-	HM-1	HOLLOW METAL	1/A5.1	1/A5.1	-	
109	1	A	WOOD	3' - 0"	7' - 0"	-	-	HM-1	HOLLOW METAL	1/A5.1	1/A5.1	-	
110	1	A	WOOD	3' - 0"	7' - 0"	-	-	HM-1	HOLLOW METAL	1/A5.1	1/A5.1	-	
114	1	A	WOOD	3' - 0"	7' - 0"	-	-	HM-1	HOLLOW METAL	1/A5.1	1/A5.1	-	
115	1	A	WOOD	3' - 0"	7' - 0"	-	-	HM-1	HOLLOW METAL	1/A5.1	1/A5.1	-	
116	1	A	WOOD	3' - 0"	7' - 0"	-	-	HM-1	HOLLOW METAL	1/A5.1	1/A5.1	-	
117	9	B	ALUMINUM	3' - 0"	7' - 10"	-	-	AL-1	ALUMINUM	1/A5.2	3/A5.2, 5/A5.2	4/A5.2	
118	4	A	WOOD	3' - 0"	7' - 0"	-	-	HM-1	HOLLOW METAL	1/A5.1	1/A5.1	-	
119	4	A	WOOD	3' - 0"	7' - 0"	-	-	HM-1	HOLLOW METAL	1/A5.1	1/A5.1	-	
120	6	A	WOOD	3' - 4"	7' - 0"	-	-	NA	NA	6/A5.2	6/A5.2	-	1
121	5	A	WOOD	3' - 0"	7' - 0"	-	-	HM-1	HOLLOW METAL	1/A5.1	1/A5.1	-	
122	1	A	WOOD	3' - 0"	7' - 0"	-	-	HM-1	HOLLOW METAL	1/A5.1	1/A5.1	-	
123	2	A	WOOD	3' - 0"	7' - 0"	-	-	HM-1	HOLLOW METAL	1/A5.1	1/A5.1	-	
124	1	A	WOOD	3' - 0"	7' - 0"	-	-	HM-1	HOLLOW METAL	1/A5.1	1/A5.1	-	
125	2	A	WOOD	3' - 0"	7' - 0"	-	-	HM-1	HOLLOW METAL	1/A5.1	1/A5.1	-	
126	1	A	WOOD	3' - 0"	7' - 0"	-	-	HM-1	HOLLOW METAL	1/A5.1	1/A5.1	-	
127A	3	A	WOOD	3' - 0"	7' - 0"	-	-	HM-1	HOLLOW METAL	1/A5.1	1/A5.1	-	
127B	3	A	WOOD	3' - 0"	7' - 0"	-	-	HM-1	HOLLOW METAL	1/A5.1	1/A5.1	-	
128	1	A	WOOD	3' - 0"	7' - 0"	-	-	HM-1	HOLLOW METAL	1/A5.1	1/A5.1	-	
131	3	A	WOOD	3' - 0"	7' - 0"	-	-	HM-1	HOLLOW METAL	1/A5.1	1/A5.1	-	
134	9	B	ALUMINUM	3' - 0"	7' - 10"	-	-	AL-1	ALUMINUM	1/A5.2	3/A5.2, 5/A5.2	4/A5.2	
135	1	A	WOOD	3' - 0"	7' - 0"	-	-	HM-1	HOLLOW METAL	1/A5.1	1/A5.1	-	
136	1	A	WOOD	3' - 0"	7' - 0"	-	-	HM-1	HOLLOW METAL	1/A5.1	1/A5.1	-	
138	1	A	WOOD	3' - 0"	7' - 0"	-	-	HM-1	HOLLOW METAL	1/A5.1	1/A5.1	-	

NOTES:
1. SLIDING DOOR.

WINDOW SCHEDULE

NO.	WIDTH	HEIGHT	MATERIAL	HEAD	JAMB	SILL	NOTES
W1	17' - 4"	6' - 6"	ALUMINUM	1/A5.2	3/A5.2, 5/A5.2	2/A5.2	
W2	12' - 0"	6' - 6"	ALUMINUM	1/A5.2	3/A5.2, 5/A5.2	2/A5.2	
W3	5' - 0"	5' - 0"	ALUMINUM	1/A5.2	3/A5.2	2/A5.2	
W4	10' - 0"	5' - 0"	ALUMINUM	1/A5.2	3/A5.2	2/A5.2	
W5	2' - 4"	3' - 4"	HOLLOW METAL	1/A5.1	1/A5.1	1/A5.1	
W6	5' - 0"	8' - 6"	ALUMINUM	2/A5.1	2/A5.1	--	



WINDOW ELEVATIONS

1/4" = 1'-0"

DOOR HARDWARE GROUPS

GROUP 1
(3) HINGES
PASSAGE LOCKSET
AUTOMATIC DOOR BOTTOM
GASKETING
WALL STOP

GROUP 2
(3) HINGES
PRIVACY LOCKSET
WALL STOP

GROUP 3
(3) HINGES
PASSAGE LOCKSET
WALL STOP

GROUP 4
(3) HINGES
STOREROOM LOCKSET
OVERHEAD STOP, PUSH SIDE

GROUP 5
(3) HINGES
PASSAGE LOCKSET
CLOSER, PULL SIDE

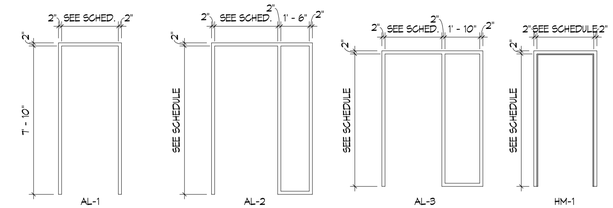
GROUP 6
SLIDING DOOR HARDWARE KIT
- TRACK
- HANGER
- NYLON GUIDE
- STOPS
- MOUNTING BRACKETS
- FASCIA COVER W/ END PLATES

PULL, BACK TO BACK

GROUP 7
CONTINUOUS HINGE
PUSH BAR AND PULL
CLOSER, PULL SIDE

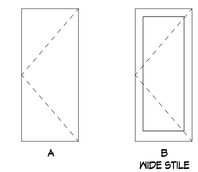
GROUP 8
CONTINUOUS HINGE
RIM EXIT DEVICE
RIM CYLINDER
DOOR PULL
CLOSER, PUSH SIDE
THRESHOLD
WEATHER STRIP
SWEEP

GROUP 9
CONTINUOUS HINGE
RIM EXIT DEVICE
RIM CYLINDER
DOOR PULL
ELECTRIC POWER TRANSFER
CLOSER, PUSH SIDE
THRESHOLD
WEATHER STRIP
SWEEP
CARD READER & POWER SUPPLY BY ACCESS CONTROL PROVIDER



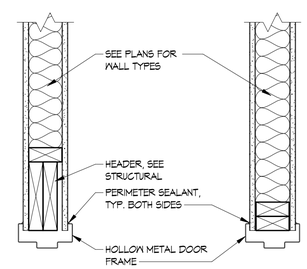
FRAME ELEVATIONS

1/4" = 1'-0"

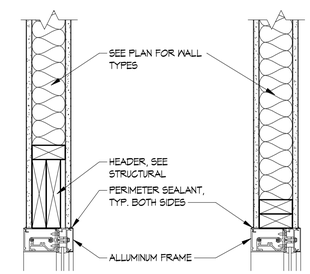


DOOR ELEVATIONS

1/4" = 1'-0"



1 / A5.1 DOOR HEAD / JAMB DETAIL
1 1/2" = 1'-0"



2 / A5.1 DOOR HEAD / JAMB DETAIL
1 1/2" = 1'-0"

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FAX: 715.726.1668
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NEW BUILDING FOR:
SMILES IN MOTION
RICE LAKE, WI

DATE: 11.8.2018

MARK	DATE

SHEET NO.
A5.1

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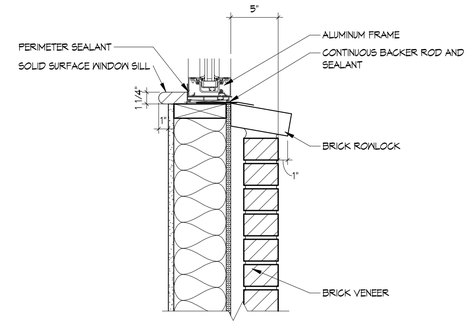
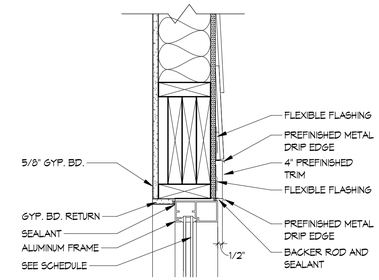
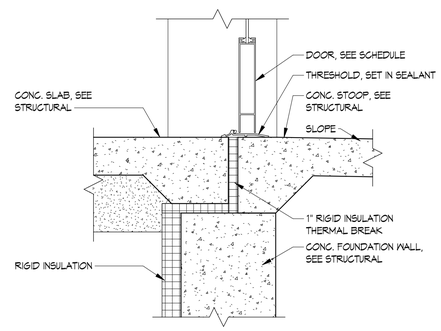


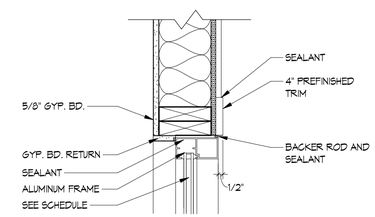
2 / A5.2 WINDOW SILL DETAIL
1 1/2" = 1'-0"



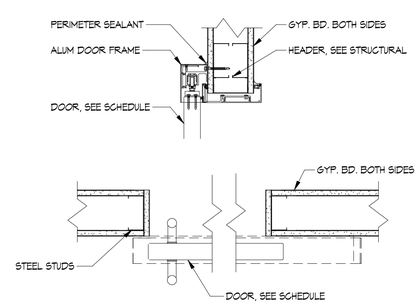
1 / A5.2 DOOR / WINDOW HEAD DETAIL
1 1/2" = 1'-0"



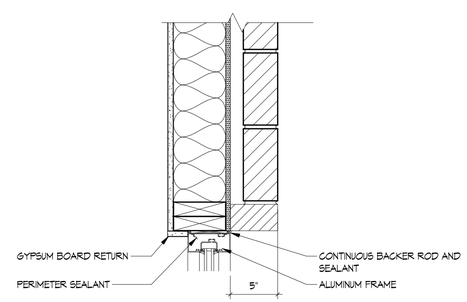
4 / A5.2 DOOR THRESHOLD DETAIL
1 1/2" = 1'-0"



3 / A5.2 DOOR / WINDOW JAMB DETAIL
1 1/2" = 1'-0"



6 / A5.2 SLIDING DOOR HEAD/JAMB
1 1/2" = 1'-0"



5 / A5.2 DOOR JAMB DETAIL
1 1/2" = 1'-0"

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A5.2

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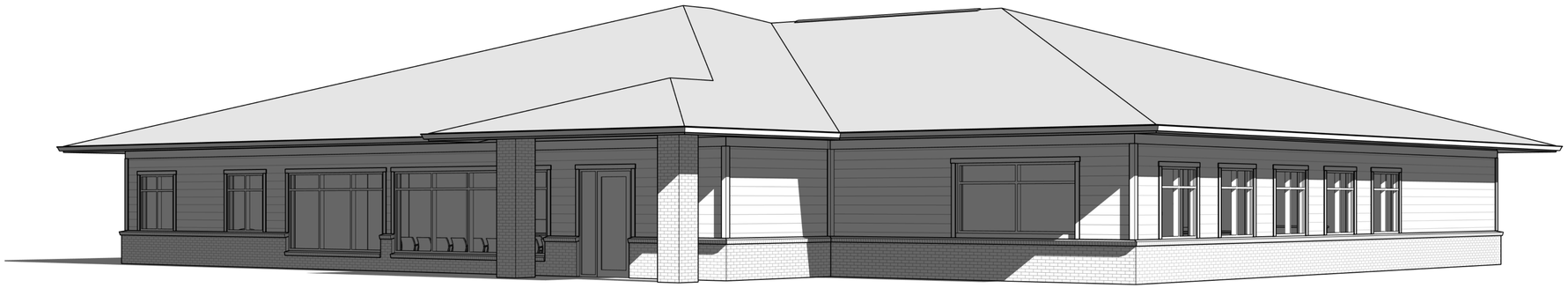
GENERAL NOTES

A. 3D VIEWS ARE FOR INFORMATION ONLY AND DO NOT FORM A PART OF THE CONTRACT DOCUMENTS. THEY DO NOT APPEAR TO INDICATE ALL DETAILS, CHANGES IN MATERIAL AND JOINTS.



1 A6.1 3D VIEW

2 A6.1 3D VIEW

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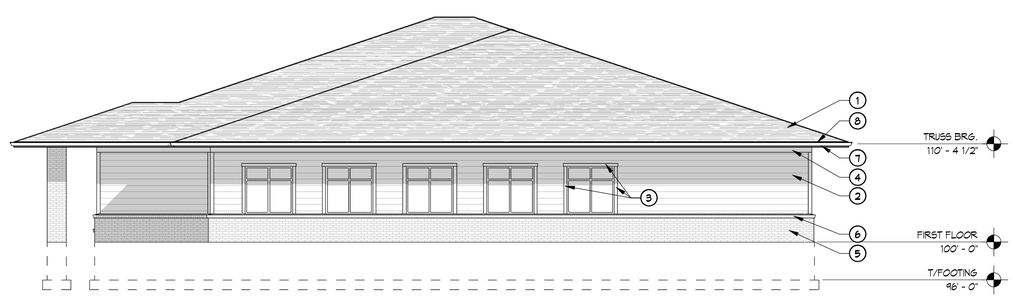
KEYED EXTERIOR ELEVATION NOTES

1. ASPHALT SHINGLES.
2. 7" EXPOSURE WOOD COMPOSITE SIDING.
3. 3 1/2" COMPOSITE TRIM.
4. 6" WOOD COMPOSITE TRIM.
5. BRICK VENEER.
6. BRICK ROWLOCK.
7. PREFINISHED ALUMINUM FASCIA.
8. PREFINISHED ALUMINUM GUTTER AND DOWNSPOUTS.

1 A6.2 NORTH ELEVATION
1/8" = 1'-0"

2 A6.2 WEST ELEVATION
1/8" = 1'-0"

3 A6.2 EAST ELEVATION
1/8" = 1'-0"



4 A6.2 SOUTH ELEVATION
1/8" = 1'-0"

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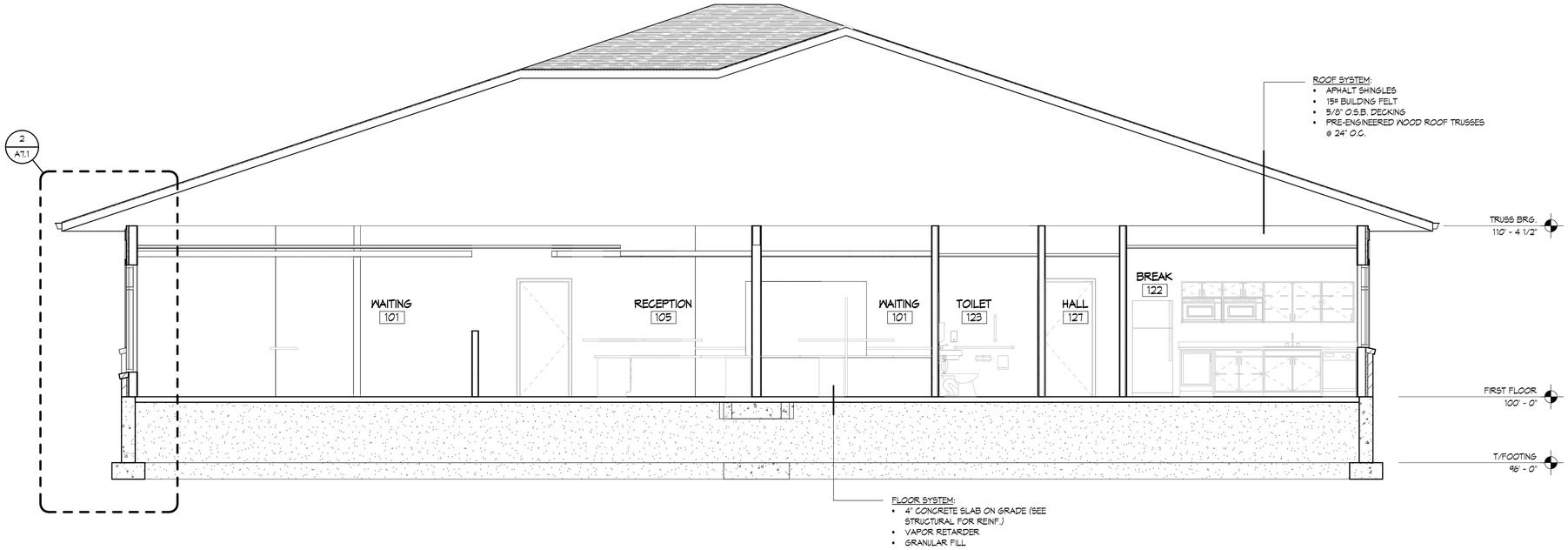
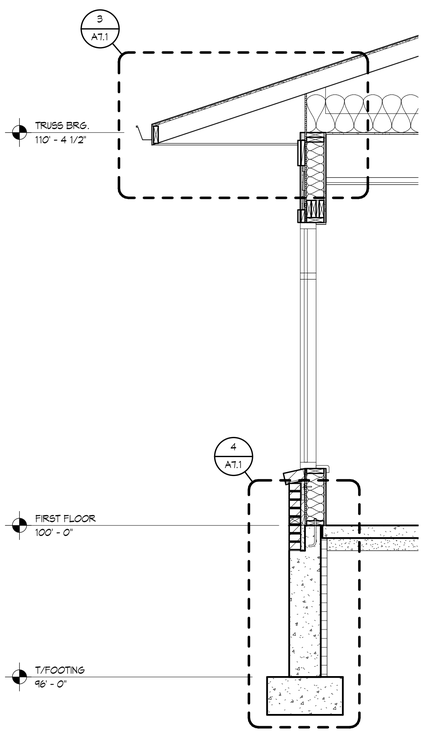
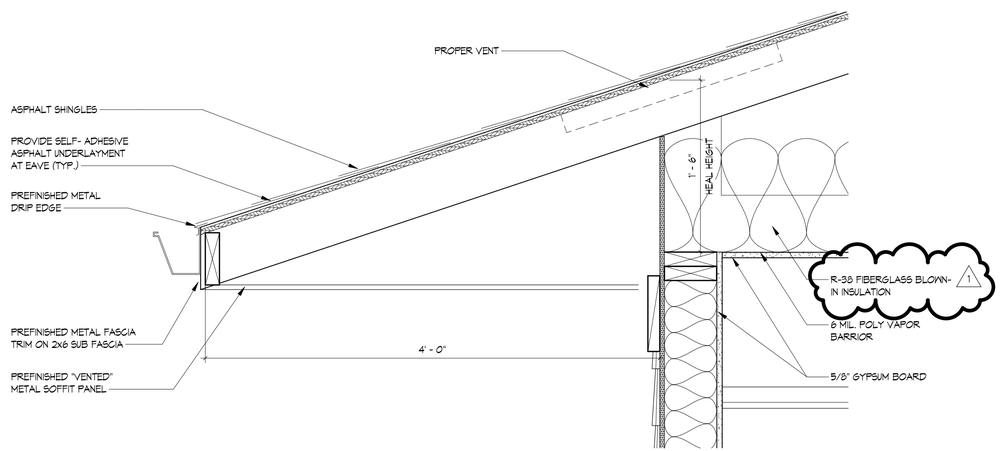


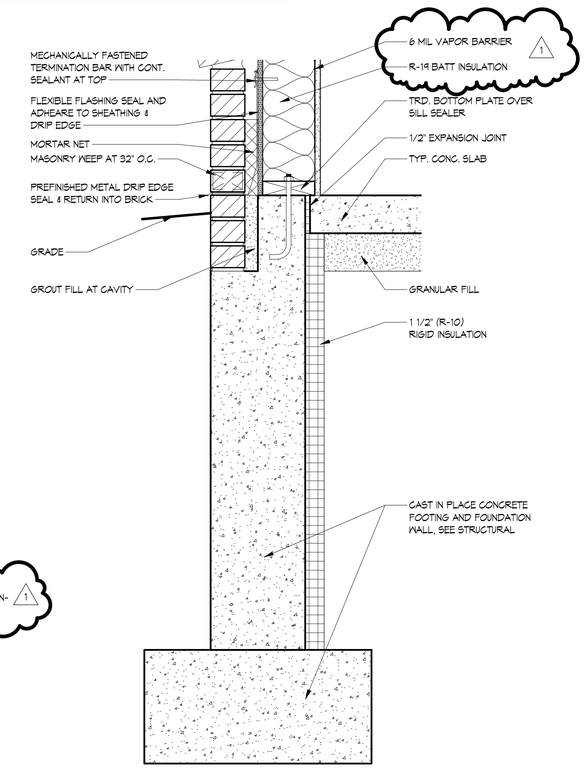
1 / A7.1 BUILDING SECTION
1/4" = 1'-0"



2 / A7.1 WALL SECTION
1/2" = 1'-0"



3 / A7.1 TYPICAL ROOF EDGE DETAIL
1 1/2" = 1'-0"



4 / A7.1 TYPICAL FOUNDATION DETAIL
1 1/2" = 1'-0"

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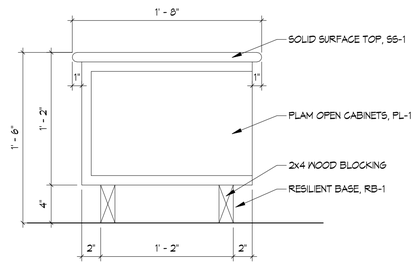
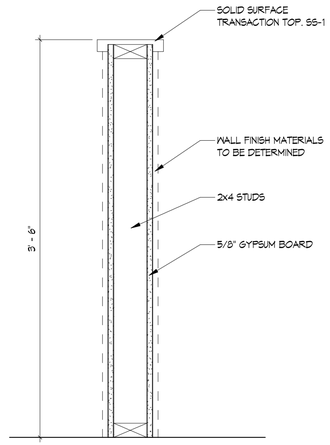
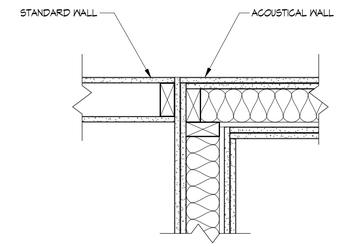


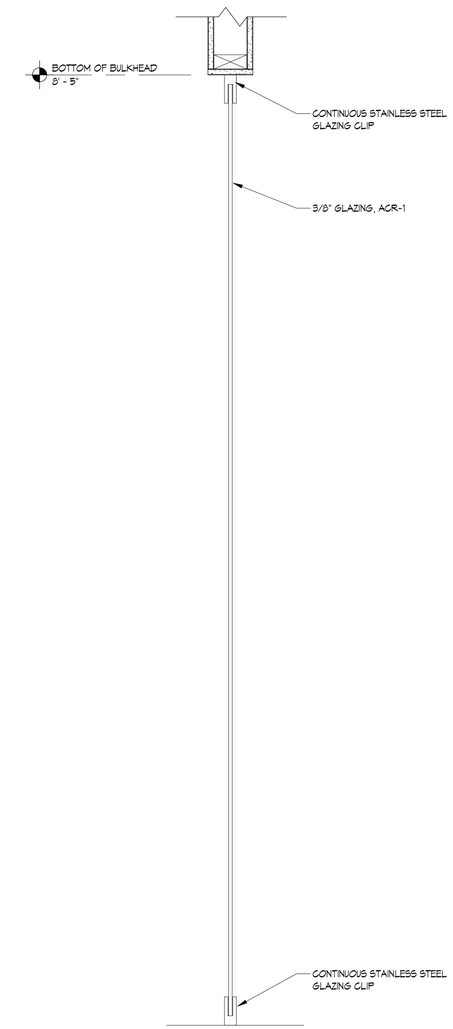
1 A8.1 BENCH DETAIL
1 1/2" = 1'-0"



2 A8.1 HALF-HIGH WALL SECTION
1 1/2" = 1'-0"

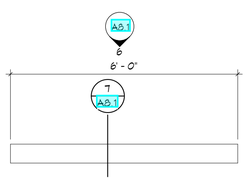


3 A8.1 DETAIL @ ACOUSTICAL WALL
1 1/2" = 1'-0"

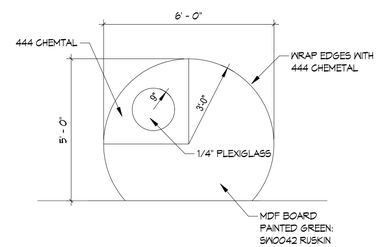


4 A8.1 GLAZING SECTION
1 1/2" = 1'-0"

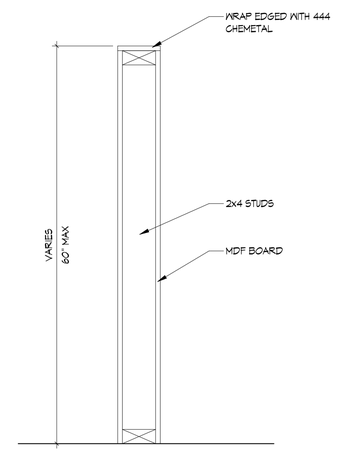
1



5 A8.1 ENLARGED PLAM WALL DETAIL
1/2" = 1'-0"



6 A8.1 PLAM WALL ELEVATION
3/8" = 1'-0"



7 A8.1 PLAM WALL SECTION
1 1/2" = 1'-0"

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NEW BUILDING FOR:
SMILES IN MOTION
RICE LAKE, WI

DATE: 11.8.2018

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ADDENDUM #01

Project:	**Smiles In Motion – Rice Lake**
Date:	**November 15, 2018**
Owner:	**Smiles In Motion** 583 Lakeland Drive Chippewa Falls, WI. 54729 Phone: 715.723.2000
Architect:	**River Valley Architects, Inc.** 1403 122nd St. – Suite C Chippewa Falls, WI. 54729 Phone: 715.832.0875
General Contractor:	**Royal Construction** 3653 Greenway Street Eau Claire, WI. 54701 Phone: 715.832.1986

This addendum is issued to modify, explain or correct the original drawings and is hereby made a part of the Construction Documents for the aforementioned project.

PLAN ITEMS:

Plan Sheet A1.1 – TRASH ENCLOSURE

- *Plan Sheet eliminated from project. Owner to coordinate design and size of trash enclosure.*

Plan Sheet A2.0 – WALL TYPES

- *Revised Exterior Wall Types.*

Plan Sheet A3.2 – EXTERIOR MATERIAL LEGENDS

- *Revised Aluminum Framed Storefront Color to Dark Bronze.*

Plan Sheet A5.2 - DETAILS

- *Revised Details.*

Plan Sheet A7.1 - DETAILS

- *Revised Details.*

** End of Addendum **

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CONSTRUCTION BULLETIN #01

Date: November 30, 2018

Sent to: Jesse Cain, Royal Construction

Project: Smiles In Motion – Rice Lake

Bulletin Description:

By way of this construction bulletin, please see the following information, which provides clarification and/or revisions to the original bid documents dated 11/08/18.

CUT SHEETS

- Reception desk details.

PLAN SHEETS

- Sheet A2.1 – First Level Floor Plan
  - Added Elevation 20/A4.2 in Hall #131.
  - Added half high plam walls in Hygiene Bay #130.
  - Revised desk in Reception 105.
  - Revised note 5.
- Sheet A2.3 – First Level Dimension Plan
  - Added half high plam walls in Hygiene Bay #130.
- Sheet A4.2 – Interior Elevations
  - Added Elevation 20/A4.2 in Hall #131.
- Sheet A8.1 – Interior Details
  - Added details regarding half high plam wall.

If the aforementioned items result in changes to the Contract Sum and/or Contract Time, the Construction Manager/General Contractor shall submit an itemized proposal for changes in the Contract Sum and/or Contract Time. The itemized proposal shall be submitted to the Architect within seven (7) days or the Architect should be notified, in writing, of the date on which proposal submission is anticipated.

THIS IS NOT A CHANGE ORDER, A CONSTRUCTION CHANGE DIRECTIVE, OR A DIRECTION TO PROCEED WITH THE WORK.

ISSUED BY:

Erin Murray, Senior Project Manager 11/30/2018

RIVER VALLEY ARCHITECTS, INC.

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Fax 715.726.1668

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CONSTRUCTION BULLETIN #02

Date: December 6, 2018

Sent to: Jesse Cain, Royal Construction

Project: Smiles In Motion – Rice Lake

Bulletin Description:

By way of this construction bulletin, please see the following information, which provides clarification and/or revisions to the original bid documents dated 11/08/18.

PLAN SHEETS

- Sheet A3.1
  - Updated Finish Plan as shown.
- Sheet A3.2
  - Updated Material Legend and Room Finish Schedule as shown.
- Sheet A4.1
  - Updated Interior Elevations at toilets
- Sheet A4.2
  - Updated Interior Elevations at toilets.

If the aforementioned items result in changes to the Contract Sum and/or Contract Time, the Construction Manager/General Contractor shall submit an itemized proposal for changes in the Contract Sum and/or Contract Time. The itemized proposal shall be submitted to the Architect within seven (7) days or the Architect should be notified, in writing, of the date on which proposal submission is anticipated.

THIS IS NOT A CHANGE ORDER, A CONSTRUCTION CHANGE DIRECTIVE, OR A DIRECTION TO PROCEED WITH THE WORK.

ISSUED BY:

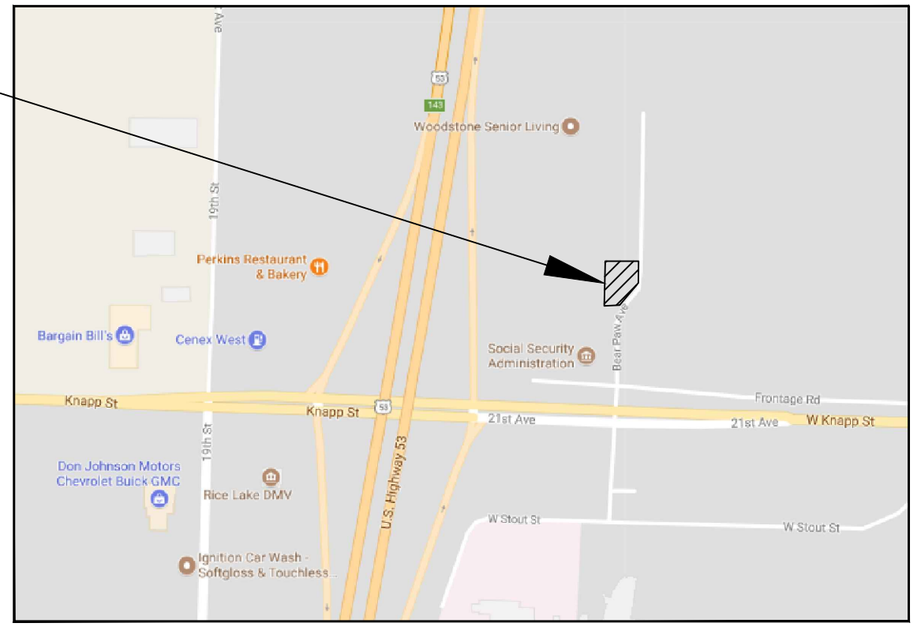
Erin Murray, Senior Project Manager 12/06/2018

SMILES IN MOTION-RICE LAKE
VECTOR PARTNERS LLC
840 BEAR PAW AVENUE
RICE LAKE, WISCONSIN

VICINITY MAP

811 Know what's **below.** **Call** before you dig.

PROJECT LOCATION



LOCATION MAP

CONTACTS

CITY ENGINEER	S.E.H. ATTN: MIKE VAN GILDER (715) 861–1950
DIRECTOR OF COMM. SERV.	CITY OF RICE LAKE ATTN: JIM ANDERSON (715) 234–8215
BUILDING INSPECTOR	CITY OF RICE LAKE ATTN: BILL WAGNER (715) 234–2425
SANITARY	RICE LAKE UTILITIES ATTN: CORY MARGETTA (715) 931–7135
WATER	RICE LAKE UTILITIES ATTN: CHAD PAULSON (715) 651–3374
FIRE DEPT.	CITY OF RICE LAKE FIRE DEPARTMENT ATTN: JAMES RESAC (715) 234–2119
ELECTRIC	RICE LAKE UTILITIES ATTN: TIM AABY (715) 234–7004
GAS	WE ENERGIES 1–800–242–9137 GARY HOVER (715)234–9609; LEWIS KNAPP (715) 234–9605
TELEPHONE	MOSAIC TELECOM – TOM ZWIEFELHOFER (715) 458–5328 DENNIS RUSSETT (715) 458–5400
CABLE	CHARTER COMMUNICATIONS TOM HAASE (715) 715–719–0564
TELEPHONE	CENTURY LINK KYLE SCHLAMPP (715) 234–5573

LEGEND

EXISTING	PROPOSED	
		----BENCHMARK
		----CONTROL POINT
		----SIGN
		----CURB STOP
		----WELL
		----HYDRANT
		----GATE VALVE
		----CURB INLET
		----AREA DRAIN
		----SAN MH
		----STORM MH
		----SAN CLEANOUT
		----GAS MANHOLE
		----LIGHT POLE
		----UTILITY POLE
		----GUY WIRE
		----GUY POLE
		----PULL BOX
		----ELEC PED
		----CABLE PED
		----MAILBOX
		----TELE PED
		----IRON PIPE
		----ROW POST
		----REBAR
W		----WATER MAIN
SAN	SAN	----SANITARY SEWER
STM	STM	----STORM SEWER
OH		----OVERHEAD UTILITY
T		----TELEPHONE LINE
G		----GAS LINE
E		----ELECTRIC LINE
TV		----CABLE TV LINE
		----TREELINE
		----EXISTING TREES
		----MARSH
X		----FENCE LINE
		----WOVEN WIRE FENCE
		----SILT FENCE
		----RETAINING WALL
870	910	----CONTOURS MAJOR ----CONTOURS MINOR

ABBREVIATIONS:
BC=BACK OF CURB
BF=BASEMENT FLOOR ELEVATION
BLK=BLOCK NUMBER
BOT=BOTTOM (ELEV)
CL=CENTERLINE
CS=CURB STOP
ELEV=ELEVATION
EOP=EDGE OF PAVEMENT
EX=EXISTING
FES=FLARED END SECTION
FF=FINISHED FLOOR (ELEV)
FL=FLOWLINE
GF=GARAGE FLOOR (ELEV)
GLG=GROUND LINE GROOVE
HWL=HIGH WATER LEVEL
INV=INVERT
LF=LINEAR FEET
LO=LOOKOUT STYLE HOME
LT=LEFT
MIN=MINIMUM
NWL=NORMAL WATER LEVEL
PC=POINT OF CURVE
PRC=CURVE REVERSAL POINT
PT=POINT OF TANGENCY
RAD=RADIUS
RT=RIGHT
R/W=RIGHT OF WAY
SAN=SANITARY SEWER
SP=SPOT ELEVATION
STA=STATION
STM=STORM SEWER
TC=TOP OF CURB
TYP=TYPICAL
W=WATER FITTINGS
WAT=WATER
WM=WATERMAIN
WO=WALKOUT STYLE HOME

SHEET SCHEDULE

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	EXISTING CONDITIONS AND DEMOLITION PLAN
3	SITE PLAN
4	UTILITY PLAN
5	GRADING PLAN
6	EROSION CONTROL PLAN
7-8	DETAILS

DEVELOPER:
VECTOR PARTNERS LLC
3653 GREENWAY ST.
EAU CLAIRE, WI 54701
715–832–1986
EMAIL: brian@royalbuilt.com

PROJECT ENGINEER:
ADVANCED ENGINEERING CONCEPTS
MATT APPEL, P.E.
1360 INTERNATIONAL DRIVE
EAU CLAIRE, WI 54701
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ROYAL CONSTRUCTION
From Concept to Keys
3653 Greenway Street
Eau Claire, WI 54701
715-832-1986
www.Royalbuilt.com

SCHEDULE OF REQUIRED PERMITS		
APPROVALS NEEDED	DATE SUBMITTED	APPROVAL
CITY OF RICE LAKE		
DSPS – EXTERIOR PLUMBING PERMIT		

AEC PROJECT #:18341 PLANS DATED: OCTOBER 2018

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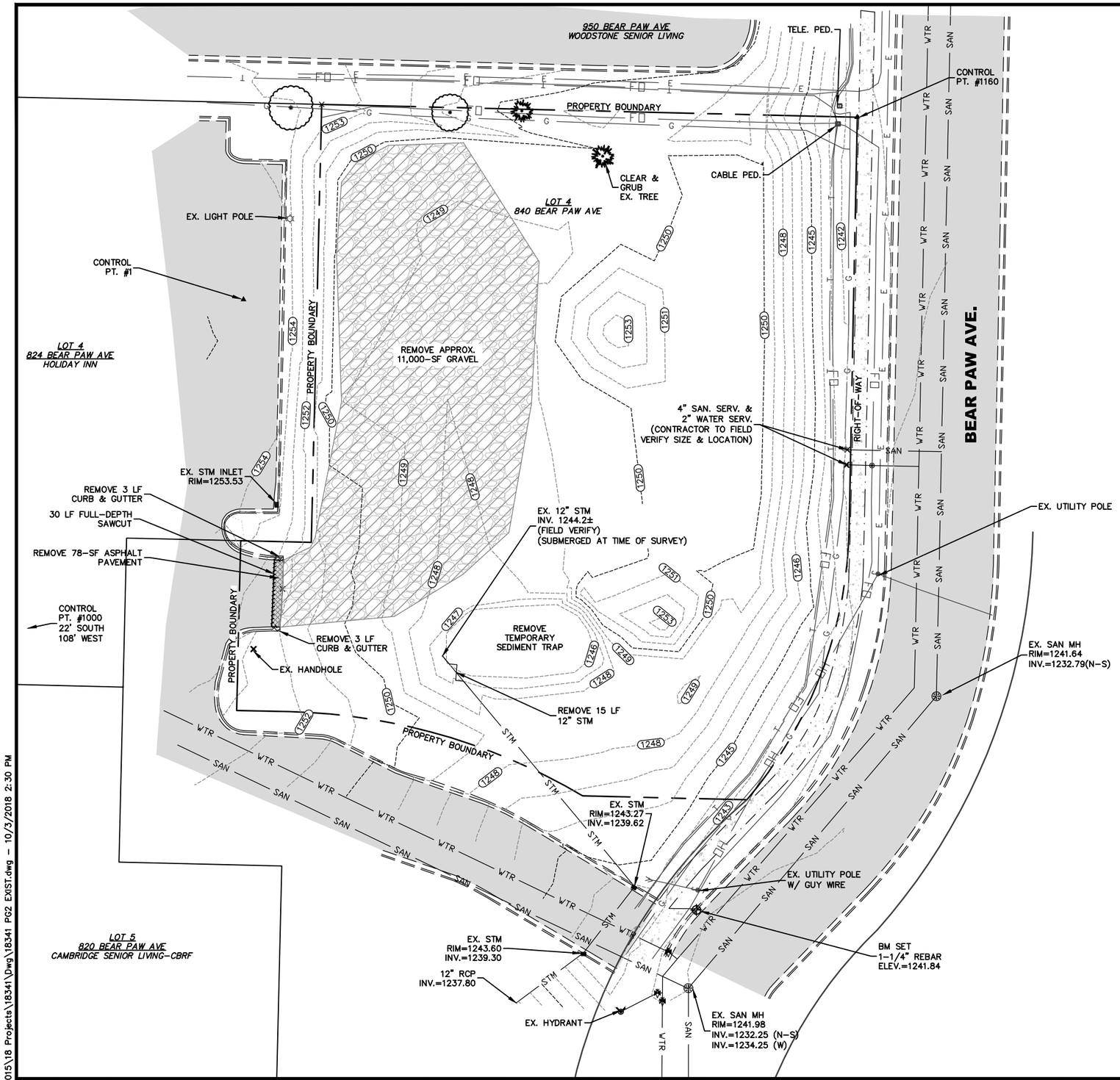

CONTROL – 18341				
POINT #	TYPE	NORTHING	EASTING	ELEVATION
1	PK NAIL	137805.967'	329066.141'	
1000	60d SPIKE	137667.218'	328889.582'	
1160	1" IP	137871.478'	329286.578'	
BENCHMARK	1-1/4" REBAR			1241.84'

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NORTH

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LEGEND

- EXISTING CONTOURS-MNR
- EXISTING CONTOURS-MJR
- REMOVE GRAVEL
- REMOVE PAVEMENT
- FULL-DEPTH SAWCUT
- CURB AND GUTTER REMOVAL
- UTILITY REMOVAL

NOTE:
CONTRACTOR TO FIELD VERIFY EXISTING UTILITY LOCATIONS

GENERAL NOTES:

1. UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY AND ARE NOT SHOWN IN THEIR ENTIRETY. CONTRACTOR SHALL NOTIFY UTILITIES A MINIMUM OF 3 DAYS PRIOR TO ANY EXCAVATION FOR FIELD VERIFICATION OF LOCATIONS. THE CLIENT, CITY, AND THE ENGINEER ARE NOT RESPONSIBLE OR LIABLE FOR ANY DAMAGE CAUSED TO EXISTING UTILITIES.
2. CLEARING AND GRUBBING SHALL ONLY BE IN THOSE LOCATIONS DIRECTED BY THE ENGINEER AND/OR OWNER. CONTRACTOR SHALL PROTECT ALL TREES, SHRUBS, AND CORRESPONDING ROOT SYSTEMS FROM DAMAGE. ALL WORK WITH POTENTIAL IMPACT ON UN-CLEARED TREES AND/OR SHRUBS SHALL BE COORDINATED WITH THE ENGINEER AND/OR OWNER.
3. CONTRACTOR SHALL NOT DISTURB ANY R/W IRONS. ANY REMOVAL SHALL BE APPROVED BY THE ENGINEER, OTHERWISE THE CONTRACTOR SHALL BE BILLED FOR REPLACEMENT.
4. CONTRACTOR SHALL VERIFY THE AMOUNT OF PAVEMENT REMOVAL WITH THE PROJECT MANAGER.
5. CONTRACTOR TO COORDINATE LOCATIONS AND LIMITS OF SAWCUTS WITH THE PROJECT MANAGER.
6. NO TREES OR STUMPS ARE TO BE BURIED ON SITE. CONTRACTOR IS RESPONSIBLE FOR ANY PERMITS FOR BURNING OR MATERIAL DISPOSAL.
7. CONTRACTOR TO REPAIR AND RESTORE ANY DAMAGED OR DISTURBED AREAS OF PAVEMENT, CONCRETE, LANDSCAPING, ELECTRICAL, AND AUTOMATIC IRRIGATION, ETC. TO ITS ORIGINAL CONDITION ON ADJACENT PROPERTIES.
8. IF DURING THE COURSE OF CONSTRUCTION THE CONTRACTOR FINDS ANY DISCREPANCIES OR CONFLICTS BETWEEN THE PROPOSED SITE IMPROVEMENTS INDICATED ON THE PLANS AND THE PHYSICAL CONDITIONS OF THE SITE, OR ANY ERRORS OR OMISSIONS WITHIN THE PLANS OR IN THE SITE LAYOUT AS PROVIDED BY THE ENGINEER, IT SHALL BE THE RESPONSIBILITY OR THE CONTRACTOR TO IMMEDIATELY NOTIFY THE ENGINEER. UNTIL AUTHORIZED TO PROCEED, ANY WORK PERFORMED AFTER SUCH DISCOVERY WILL BE AT THE CONTRACTOR'S SOLE RISK AND EXPENSE.

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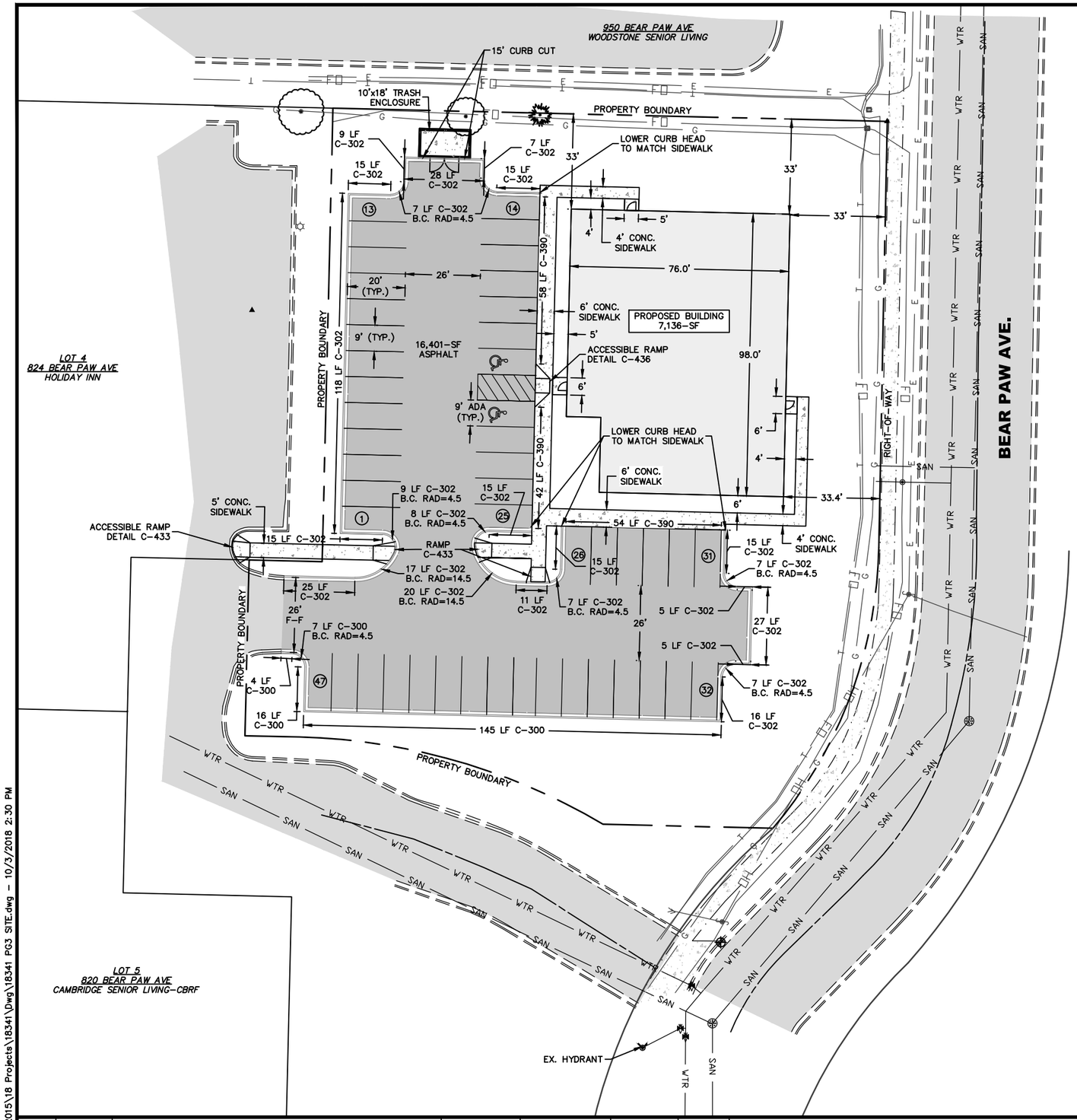
EXISTING CONDITIONS & DEMOLITION PLAN

SMILES IN MOTION-RICE LAKE
VECTOR PARTNERS LLC
840 BEAR PAW AVENUE
RICE LAKE, WI

DWG NAME 18341 PG2 EXIST

DATE 10/2018



Know what's **below.**
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NORTH

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HATCHING LEGEND	
	EXISTING ASPHALT
	EXISTING CONCRETE PAVEMENT
	PROPOSED BITUMINOUS PAVEMENT
	PROPOSED BUILDING
	PROPOSED CONCRETE PAVEMENT (SIDEWALKS: 4" THICKNESS) (IF EXPOSED TO VEHICULAR TRAFFIC: 6" THICKNESS)

SMILES IN MOTION-RICE LAKE

SITE DATA

LOT 4
TOTAL SITE AREA : 46,122-SF (1.06 ACRES)
TOTAL DISTURBED AREA: 40,850-SF (0.94 ACRES)

IMPERVIOUS LOT COVERAGE

ROOFTOP:	7,136-SF (0.16 ACRES)
PAVEMENT/CURB:	17,496-SF (0.40 ACRES)
SIDEWALK/TRASH ENC.:	2,056-SF (0.05 ACRES)
TOTAL IMPERVIOUS:	26,688-SF (0.61 ACRES)
PERCENT IMPERVIOUS:	57.9%

PERVIOUS AREA

OPEN SPACE	19,434-SF (0.44 ACRES)
PERCENT PERVIOUS	42.1%

BUILDING:
FOOTPRINT: 7,136-SF
PROPOSED USE: DENTAL CLINIC

ZONING
HIGHWAY COMMERCIAL DISTRICT (CH)

SETBACKS
FRONT=25'
SIDE=6'
REAR=6'

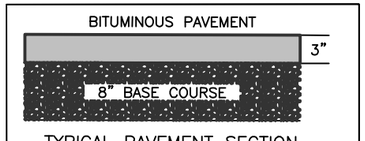
PARKING
REQUIRED: 1 STALL PER 180-SF AND/OR 5 PER DOCTOR
PROVIDED: 47 STALLS (2 ADA ACCESSIBLE)

GENERAL NOTES:

1. UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY AND ARE NOT SHOWN IN THEIR ENTIRETY. CONTRACTOR SHALL NOTIFY UTILITIES A MINIMUM OF 3 DAYS PRIOR TO ANY EXCAVATION FOR FIELD VERIFICATION. THE CITY, THE DEVELOPER, AND THE ENGINEER ARE NOT RESPONSIBLE OR LIABLE FOR ANY DAMAGE CAUSED TO EXISTING UTILITIES.
2. CONTRACTOR SHALL NOT DISTURB ANY R/W IRONS. ANY REMOVAL SHALL BE APPROVED BY THE ENGINEER, OTHERWISE THE CONTRACTOR SHALL BE BILLED FOR REPLACEMENT.
3. CONTRACTOR IS RESPONSIBLE FOR ALL DUST CONTROL NECESSARY THROUGHOUT THE PROJECT. COSTS FOR DUST CONTROL ARE INCIDENTAL TO PROJECT.
4. IF DURING THE COURSE OF CONSTRUCTION THE CONTRACTOR FINDS ANY DISCREPANCIES OR CONFLICTS BETWEEN THE PROPOSED SITE IMPROVEMENTS INDICATED ON THE PLANS AND THE PHYSICAL CONDITIONS OF THE SITE, OR ANY ERRORS OR OMISSIONS WITHIN THE PLANS OR IN THE SITE LAYOUT AS PROVIDED BY THE ENGINEER, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO IMMEDIATELY NOTIFY THE ENGINEER. UNTIL AUTHORIZED TO PROCEED, ANY WORK PERFORMED AFTER SUCH DISCOVERY WILL BE AT THE CONTRACTOR'S SOLE RISK AND EXPENSE.
5. PAINT LINE WORK ON ASPHALTIC PAVING, CONCRETE CURBS, WALKS, AND RAMPS SHALL BE FACTORY MIXED, QUICK DRYING, NON-BLEEDING TRAFFIC MARKING PAINT COMPLYING WITH AASHTO M248, Type COLOR SHALL BE WHITE, EXCEPT WHERE ANOTHER COLOR IS REQUIRED BY CODE. CONTRACTOR SHALL CLEAN SURFACE IN THE AREAS RECEIVING PAINT AND SHALL PAINT ALL MARKINGS AND SYMBOLS WITH TRAFFIC MARKING PAINT. PAINT SHALL BE APPLIED WITH MECHANICAL EQUIPMENT TO PRODUCE UNIFORM STRAIGHT EDGES. CONTRACTOR SHALL APPLY TWO (2) COATS AT MANUFACTURER'S RECOMMENDED RATES.

NOTE:
CONTRACTOR TO FIELD VERIFY EXISTING UTILITY LOCATIONS

BITUMINOUS PAVEMENT



TYPICAL PAVEMENT SECTION

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SITE PLAN

SMILES IN MOTION-RICE LAKE
VECTOR PARTNERS LLC
840 BEAR PAW AVENUE
RICE LAKE, WI

DWG NAME 18341 PG3 SITE

DATE 10/2018

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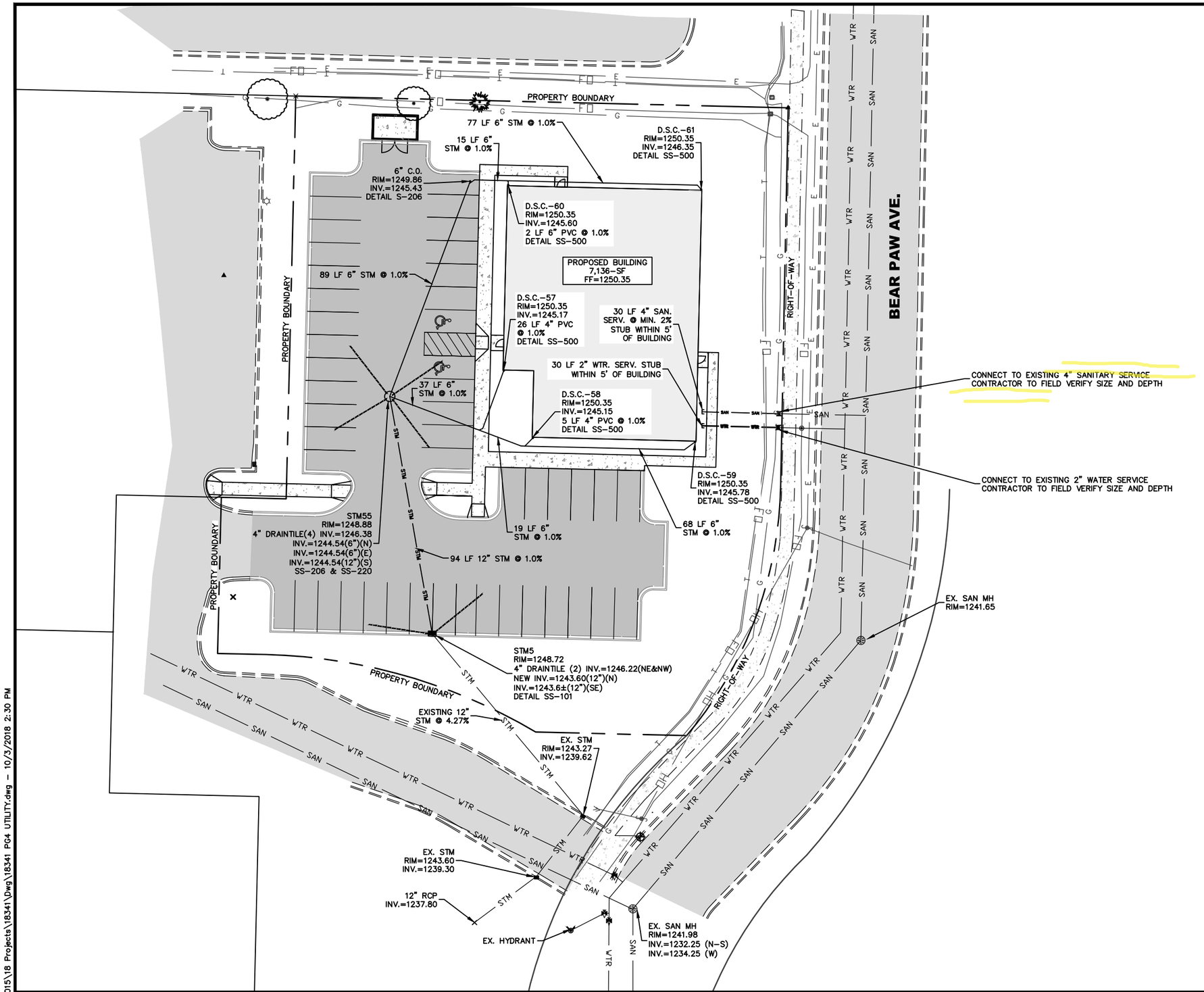

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UTILITY NOTES:

1) STORM AND SANITARY PIPE LENGTHS ARE TO CENTER OF MANHOLE. CONTRACTOR TO VERIFY ACTUAL LENGTH REQUIRED.
2) MANHOLES ARE 48"ø UNLESS OTHERWISE NOTED.
3) SILT FENCE AROUND INLETS AND MANHOLES REQUIRED DURING CONSTRUCTION PER DETAIL C-211.
4) MAINTAIN 8' WATER MAIN COVER. ALL WATER MAIN MUST BE INSTALLED ACCORDING TO CITY OF RICE LAKE (STANDARDS FOR THE INSTALLATION OF WATER MAIN). REFER TO STANDARD DETAILS FOR ALL UTILITY INSTALLATION.
5) 12" CLEARANCE WHEN WATERMAIN GOES OVER SANITARY, WATERMAIN, OR STORM SEWER & 18" SEPARATION WHEN WATERMAIN PASSES UNDER SANITARY, WATER MAIN OR STORM SEWER.
6) CONTRACTOR MUST PROTECT THE SANITARY LATERAL FROM ANY SAND, ROCK, ETC. ENTERING THE PIPE DURING CONSTRUCTION.
7) ALL WATER MAIN PIPING AND HYDRANTS SHALL BE SWAB DIS-INFEECTED PRIOR TO INSTALLATION.
8) IF DURING THE COURSE OF CONSTRUCTION THE CONTRACTOR FINDS ANY DISCREPANCIES OR CONFLICTS BETWEEN THE PROPOSED SITE IMPROVEMENTS INDICATED ON THE PLANS AND THE PHYSICAL CONDITIONS OF THE SITE, OR ANY ERRORS OR OMISSIONS WITHIN THE PLANS OR IN THE SITE LAYOUT AS PROVIDED BY THE ENGINEER, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO IMMEDIATELY NOTIFY THE ENGINEER. UNTIL AUTHORIZED TO PROCEED, ANY WORK PERFORMED AFTER SUCH DISCOVERY WILL BE AT THE CONTRACTOR'S SOLE RISK AND EXPENSE.

NOTE:
CONTRACTOR TO FIELD VERIFY EXISTING UTILITY LOCATIONS

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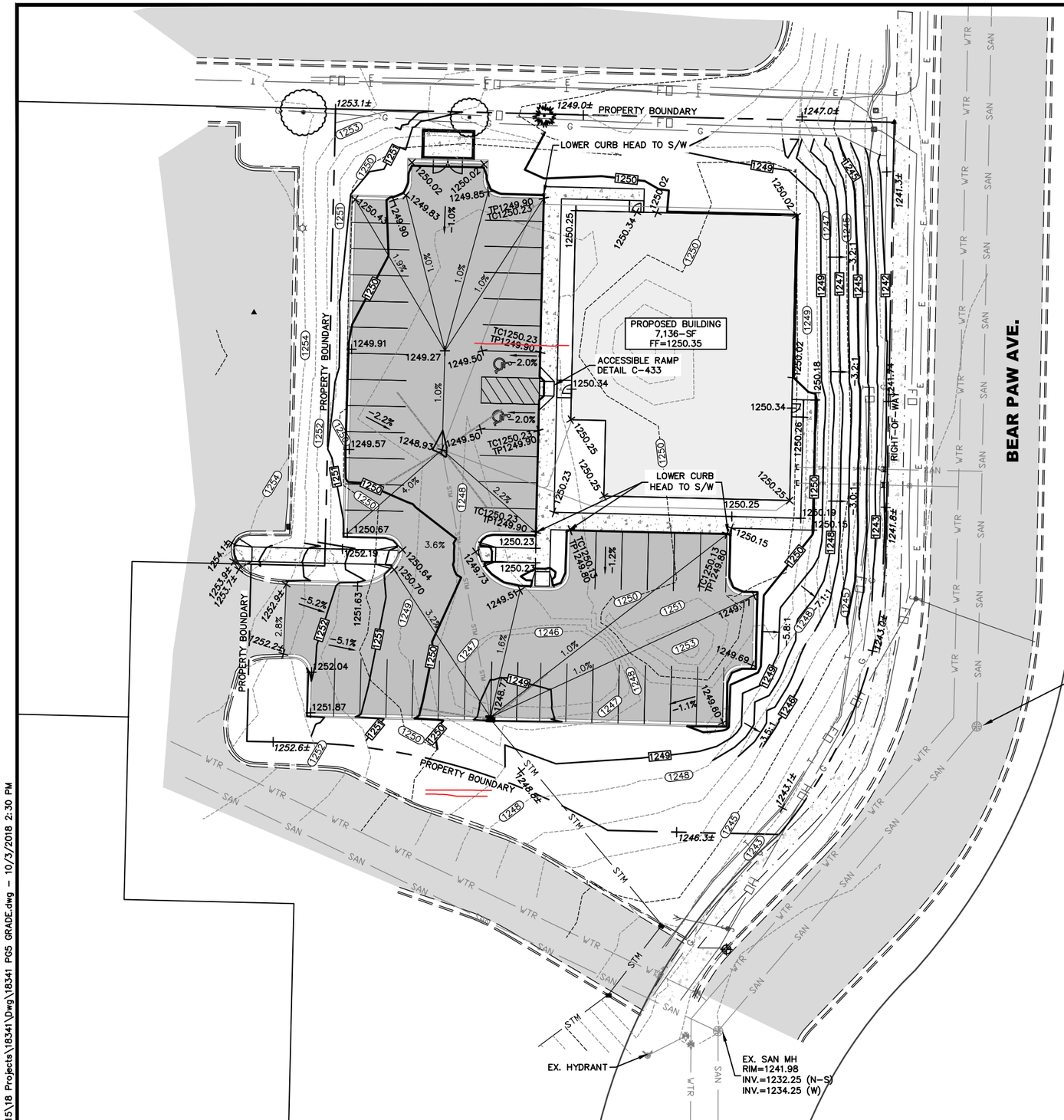
UTILITY PLAN

SMILES IN MOTION-RICE LAKE
VECTOR PARTNERS LLC
840 BEAR PAW AVENUE
RICE LAKE, WI

DWG NAME 18341 PG4 UTILITY

DATE 10/2018



Proposed 6000 sf building

Not what is shown!

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NOTE:
CONTRACTOR TO FIELD VERIFY EXISTING UTILITY LOCATIONS

GRADING LEGEND:	
1106	EXISTING CONTOURS-MNR
1105	EXISTING CONTOUR-MJR
851	FINAL CONTOUR-MJR
849	FINAL CONTOUR-MNR
	DRAINAGE PATTERN LINES
1%	DRAINAGE ARROW
FF	FINISHED FLOOR ELEVATION
+ XXX.XX	PROPOSED SPOT ELEVATION
+ XXX.X±	EXISTING SPOT ELEVATION

GRADING NOTES:

1. ALL CONTOURS ARE COMPUTER GENERATED AND REPRESENT APPROXIMATE LOCATIONS. PROPOSED CONTOURS REPRESENT FINISHED GROUND GRADES AFTER RESTORATION. CONTOURS IN STREET REPRESENT TOP OF PAVEMENT.
2. RECTANGLES REPRESENT BUILDING PAD LOCATIONS, NOT STRUCTURE DIMENSIONS OR POSITION. STRUCTURE PLACEMENT SHALL COMPLY WITH ALL APPLICABLE SETBACKS PER CITY CODE AND FINAL PLAT.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR INSURING POSITIVE DRAINAGE AWAY FROM STRUCTURES.
4. ALL SPOT ELEVATIONS ARE TOP OF ASPHALT UNLESS OTHERWISE NOTED.
5. OVER EXCAVATE BIO-RETENTION CELL TO VIRGIN MATERIAL AND DEEP TILL IN-SITU SOIL. PLACE CLEAN GRANULAR SAND TO ELEV=903.38. CONSTRUCT REMAINING BED PER DETAIL. PLACE EROSION MAT IMMEDIATELY AFTER GRADING. EROSION MAT TO REMAIN IN-PLACE UNTIL THE TIME THAT THE B.R.C. IS PROFESSIONALLY LANDSCAPED AND PLANTED. REPLACE MAT WITH LANDSCAPE MULCH OR NEW EROSION MAT.
6. IF DURING THE COURSE OF CONSTRUCTION THE CONTRACTOR FINDS ANY DISCREPANCIES OR CONFLICTS BETWEEN THE PROPOSED SITE IMPROVEMENTS INDICATED ON THE PLANS AND THE PHYSICAL CONDITIONS OF THE SITE, OR ANY ERRORS OR OMISSIONS WITHIN THE PLANS OR IN THE SITE LAYOUT AS PROVIDED BY THE ENGINEER, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO IMMEDIATELY NOTIFY THE ENGINEER. UNTIL AUTHORIZED TO PROCEED, ANY WORK PERFORMED AFTER SUCH DISCOVERY WILL BE AT THE CONTRACTOR'S SOLE RISK AND EXPENSE.

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GRADING PLAN

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VECTOR PARTNERS LLC
840 BEAR PAW AVENUE
RICE LAKE, WI

DWG NAME 18341 PG5 GRADE

DATE 10/2018

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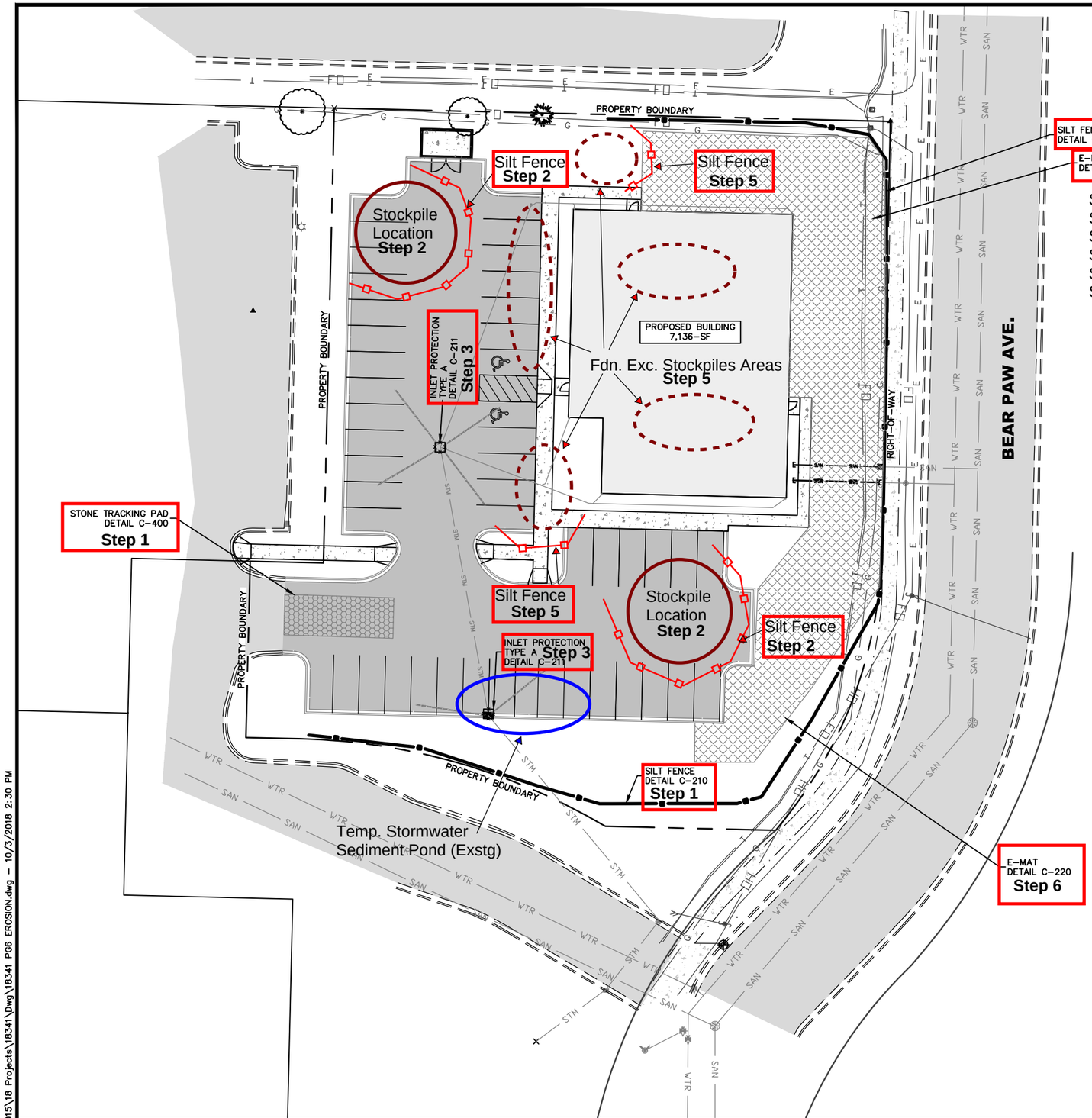

Step 1: Perimeter Silt Fence & Tracking Mat.
Step 2: Rough Grading & Silt-Fence Protected Material Stockpile.
Step 3: UG Utilities & Temp Pond Abandonement.
Step 4: Base Course.
Step 5: Foundations including Excavation & Backfill.
Step 6: Seed & Mat Slopes.

NOTE:
UTILIZE THE EXISTING SEDIMENT TRAP SHOWN ON SHEET 2 AS LONG AS POSSIBLE DURING THE INITIAL STAGES OF CONSTRUCTION

To Be Abandoned During Storm Sewer Installation.
Step 3

NOTE:
THE APPROXIMATE LIMIT OF DISTURBANCE IS 40,850-SF (0.94 ACRES)

Know what's **below.**
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NOTE:
CONTRACTOR TO FIELD VERIFY EXISTING UTILITY LOCATIONS

EROSION CONTROL LEGEND

- SILT FENCE DETAIL C-210
- CONSTRUCTION ENTRANCE DETAIL C-400
- E-MAT DETAIL C-220
- EROSION LOGS DETAIL C-205
- INLET PROTECTION TYPE A DETAIL C-211
- INLET PROTECTION TYPE D DETAIL C-213

THE EROSION CONTROL ON THIS PLAN HAS BEEN PREPARED AS A GUIDE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING, MODIFYING AND IMPLEMENTING AN ALTERNATE EROSION CONTROL PLAN BASED ON THEIR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION THAT IS COMPLEMENTARY TO THIS PLAN.

EROSION CONTROL NOTES:

1. POST WDNR CERTIFICATE OF PERMIT COVERAGE ON SITE AND MAINTAIN UNTIL CONSTRUCTION ACTIVITIES HAVE CEASED, THE SITE IS STABILIZED, AND A NOTICE OF TERMINATION IS FILED WITH WDNR.
2. KEEP A COPY OF THE CURRENT EROSION CONTROL PLAN ON SITE THROUGHOUT THE DURATION OF THE PROJECT.
3. INSPECT AND MAINTAIN ALL INSTALLED EROSION CONTROL PRACTICES UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.
4. CONTRACTOR TO PERFORM WEEKLY INSPECTIONS OF ALL EROSION CONTROL MEASURES, OR AFTER A RAIN EVENT OF 1/2" OR MORE. MAINTENANCE TO BE PERFORMED AS NEEDED TO MAINTAIN EROSION CONTROL.
5. WHEN POSSIBLE: PRESERVE EXISTING VEGETATION, MINIMIZE LAND-DISTURBING CONSTRUCTION ACTIVITY ON SLOPES OF 20% OR MORE, MINIMIZE SOIL COMPACTION, AND PRESERVE TOPSOIL.
6. THE PRIMARY CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED PER DETAIL C-400 OR WDNR TECH. STANDARD #1057. ACCESS INTO THE SITE DURING CONSTRUCTION SHALL ONLY BE AT LOCATIONS WITH TRACKING PADS.
7. INSTALL INLET PROTECTION PRIOR TO LAND-DISTURBING ACTIVITIES IN THE CONTRIBUTING AREA AND/OR IMMEDIATELY UPON INLET INSTALLATION. COMPLY WITH WDNR TECH. STANDARD #1060.
8. TOPSOIL SHALL BE STOCKPILED IN DESIGNATED AREAS AS DETERMINED AT PRE-CONSTRUCTION MEETING. IMMEDIATELY STABILIZE STOCKPILES AND SURROUND STOCKPILES AS NEEDED WITH SILT FENCE OR OTHER PERIMETER CONTROL IF STOCKPILES WILL REMAIN INACTIVE FOR 7 DAYS OR LONGER.
9. INSTALL AND MAINTAIN SILT FENCING PER WDNR TECH. STANDARD #1056. REMOVE SEDIMENT FROM BEHIND SILT FENCES AND SEDIMENT BARRIERS BEFORE SEDIMENT REACHES A DEPTH THAT IS EQUAL TO ONE-HALF OF THE FENCE AND/OR BARRIER HEIGHT.
10. REPAIR BREAKS OR GAPS IN SILT FENCES AND BARRIERS IMMEDIATELY.
11. INSTALL AND MAINTAIN FILTER SOCKS OR BIO-LOGS OR EROSION LOGS IN ACCORDANCE WITH WDNR TECH. STANDARD #1071. EROSION LOGS SHALL BE CONSTRUCTED AT ALL PIPE OUTLETS UNTIL GRADING IS COMPLETE AND RIP RAP HAS BEEN INSTALLED.
12. GRADED SURFACES SHALL BE LEFT IN A SMOOTH, UNIFORM CONDITION FREE OF RUTS, DEPRESSIONS, IRREGULARITIES, LOOSE UNCOMPACTED SOIL, ETC.
13. AS GRADING IS COMPLETED, EROSION LOGS, EROSION MAT, AND RIP RAP SHALL BE INSTALLED.
14. RESTORATION SHALL BE EXECUTED IMMEDIATELY AFTER GRADING HAS BEEN COMPLETED.
15. MAINTAIN EROSION CONTROL UNTIL 100% VEGETATION IS ESTABLISHED. ADDITIONAL EROSION CONTROL MAY BE NEEDED (EROSION MAT AND SILT FENCE). FINE GRADING AND RESEEDING MAY ALSO BE REQUIRED UNTIL VEGETATION IS FULLY ESTABLISHED IN ORDER TO PROVIDE SUFFICIENT NATURAL EROSION CONTROL IN PLACE OF STRUCTURAL MEASURES.
16. PROPERLY DISPOSE OF ALL WASTE AND UNUSED BUILDING MATERIALS (INCLUDING GARBAGE, DEBRIS, CLEANING WASTES, OR OTHER CONSTRUCTION MATERIALS) AND DO NOT ALLOW THESE MATERIALS TO BE CARRIED BY RUNOFF INTO THE RECEIVING CHANNEL.
17. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST PER WDNR TECH. STANDARD #1068.
18. SWEEP/CLEAN UP ALL SEDIMENT/TRASH THAT MOVES OFF-SITE DUE TO CONSTRUCTION ACTIVITY OR STORM EVENTS BEFORE THE END OF THE SAME WORKDAY OR AS DIRECTED BY THE WDNR. SEPARATE SWEPT MATERIALS (SOILS AND TRASH) AND DISPOSE OF APPROPRIATELY.

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EROSION CONTROL PLAN

SMILES IN MOTION-RICE LAKE
VECTOR PARTNERS LLC
840 BEAR PAW AVENUE
RICE LAKE, WI

DWG NAME 18341 PG6 EROSION

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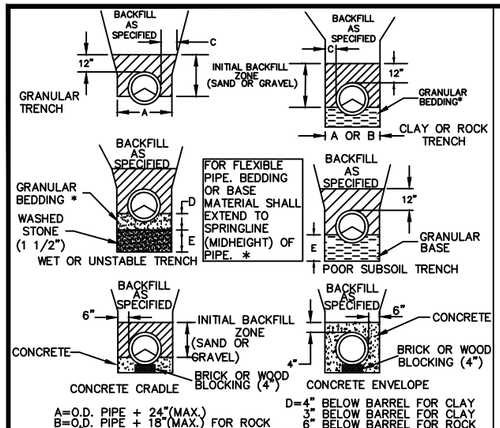
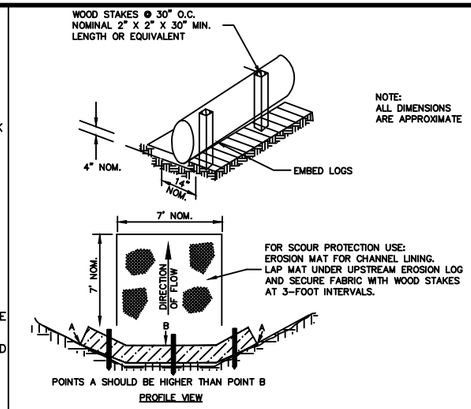


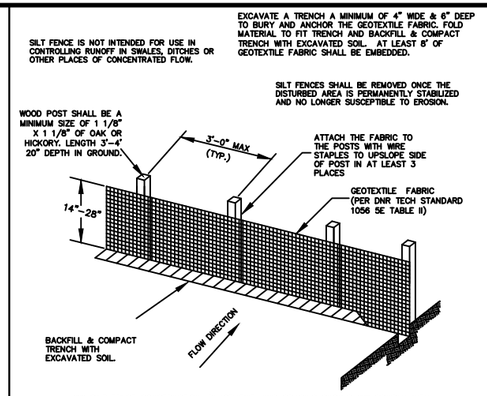
STANDARD TRENCH SECTION

C 100 NOT TO SCALE



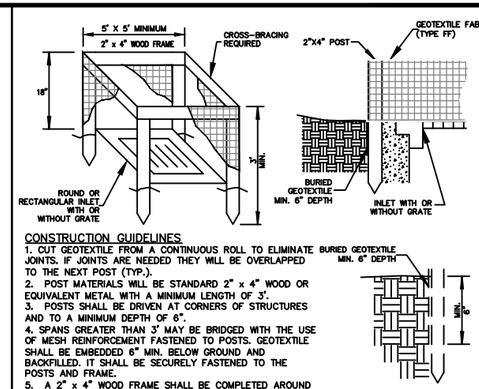
PROPER PLACEMENT OF EROSION LOG BARRIER IN DRAINAGE WAY

C 205 NOT TO SCALE



SILT FENCE DETAIL

C 210 NOT TO SCALE



CONSTRUCTION GUIDELINES

1. CUT GEOTEXTILE FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT POST (TYP.).
2. POST MATERIALS WILL BE STANDARD 2" x 4" WOOD OR EQUIVALENT METAL WITH A MINIMUM LENGTH OF 3'.
3. POSTS SHALL BE DRIVEN AT CORNERS OF STRUCTURES AND TO A MINIMUM DEPTH OF 6".
4. SPANS GREATER THAN 3' MAY BE BRIDGED WITH THE USE OF MESH REINFORCEMENT FASTENED TO POSTS. GEOTEXTILE SHALL BE EMBEDDED 6" MIN. BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE POSTS AND FRAME.
5. A 2" x 4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE GEOTEXTILE FOR OVER FLOW STABILITY.
6. NO SILT FENCE SHALL BE CUT AND PLACED UNDER INLET CASTING.

INLET PROTECTION - TYPE A

C 211 NOT TO SCALE

CONTRACTOR TO INSTALL WDNR TYPE-D INLET PROTECTION IN DOWNSTREAM CURB & GUTTER INLETS. PROVIDE BEAVER DAM-DANDY CURB BAG OR FLEX-STORM CATCH-IT INLET FILTERS OR APPROVED EQUAL.

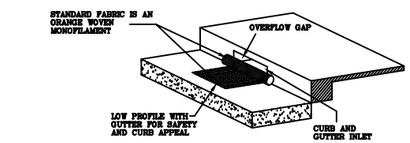
INSTALLATION

1. STAND THE GRATE ON END.
2. SLIDE THE INLET FILTER BAG ON WITH THE DAM ON TOP OF THE GRATE.
3. PULL THE EXCESS DOWN.
4. LAY THE UNIT ON ITS SIDE.
5. CAREFULLY TUCK THE FLAP IN.
6. PRESS THE VELCRO STRIPS TOGETHER.
7. INSTALL THE UNIT MAKING SURE THE FRONT EDGE OF THE GRATE IS INSERTED IN THE FRAME FIRST, THEN LOWER IT BACK INTO PLACE.
8. PRESS THE VELCRO DOTS TOGETHER THAT ARE LOCATED UNDER THE STRAPS TO HOLD THE STRAPS TO THE SURFACE OF THE UNIT.

MAINTENANCE

TO INSURE PROPER OPERATION REMOVE SILT, SEDIMENT, AND DEBRIS FROM THE SURFACE AND THE VICINITY OF THE UNIT WITH A SQUARE POINT SHOVEL OR STIFF BRISTLE BROOM AWAY FROM ENVIRONMENTALLY SENSITIVE AREAS AND WATERWAYS

IN A MANNER SATISFACTORY TO THE ENGINEER/INSPECTOR. REMOVE FINE MATERIAL FROM INSIDE INLET FILTER AS NEEDED. DISPOSE OF OR EMPTY INLET FILTER IN AN APPROPRIATE RECYCLING OR SOLID WASTE FACILITY.



INLET PROTECTION - TYPE D (DANDY CURB BAG)

C 213 NOT TO SCALE

GENERAL NOTES EROSION MAT

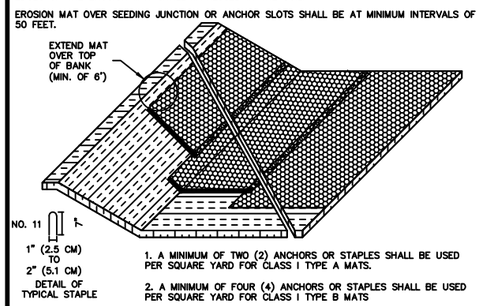
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

LAP JOINTS SHALL NOT BE PLACED IN THE BOTTOM OF V-SHAPED DITCHES.

JUNCTION SLOTS ON ADJACENT STRIPS OF MATTING SHALL BE STAGGERED A MINIMUM OF 4 FEET (1.219 M) APART.

EDGES OF THE EROSION MAT SHALL IMPRESSED IN THE SOIL.

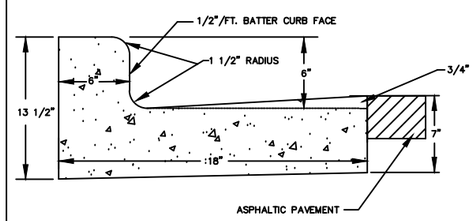
EROSION MAT OVER SEEDING JUNCTION OR ANCHOR SLOTS SHALL BE AT MINIMUM INTERVALS OF 50 FEET.



1. A MINIMUM OF TWO (2) ANCHORS OR STAPLES SHALL BE USED PER SQUARE YARD FOR CLASS I TYPE A MATS.
2. A MINIMUM OF FOUR (4) ANCHORS OR STAPLES SHALL BE USED PER SQUARE YARD FOR CLASS I TYPE B MATS

EROSION CONTROL MAT

C 220 NOT TO SCALE

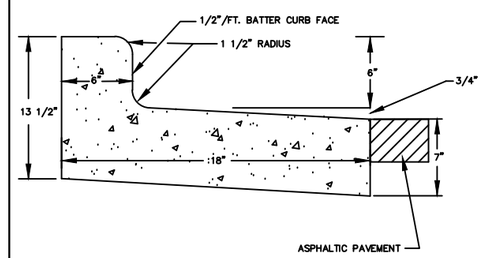


NOTE:

THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SUBGRADE OR BASE COURSE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

18" CURB AND GUTTER DETAIL (TYPE "D")

C 300 NOT TO SCALE

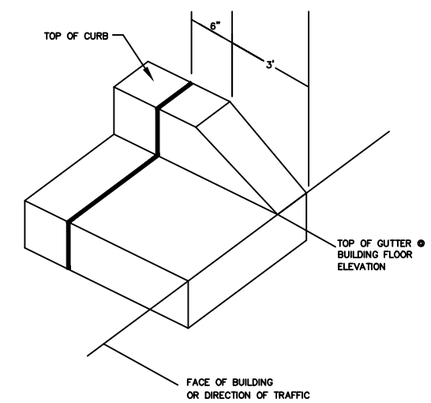


NOTE:

THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SUBGRADE OR BASE COURSE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

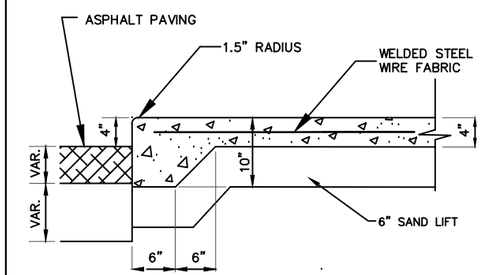
18" CURB AND GUTTER DETAIL TIPPED OUT (TYPE "D")

C 302 NOT TO SCALE



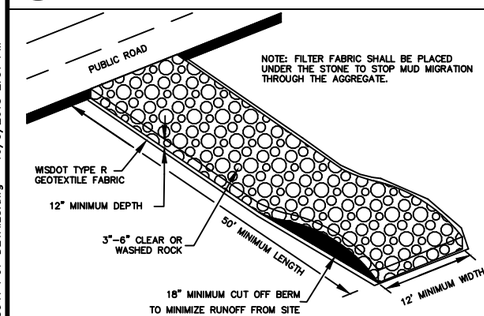
CURB TAPER

C 385 NOT TO SCALE



INTEGRAL CURB AND SIDEWALK DETAIL

C 390 NOT TO SCALE

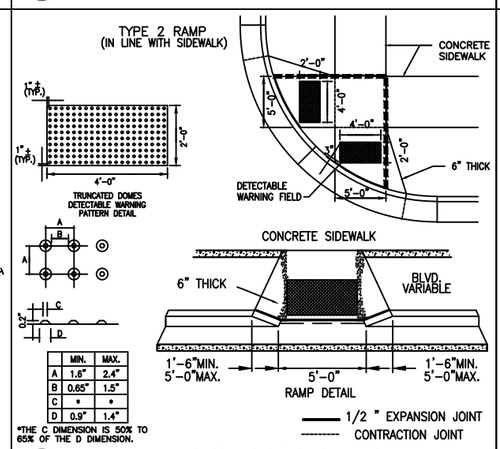


NOTES:

1. IF A 50-FT PAD LENGTH IS NOT POSSIBLE DUE TO SITE GEOMETRY, INSTALL THE MAXIMUM LENGTH PRACTICABLE AND SUPPLEMENT WITH ADDITIONAL PRACTICES AS NEEDED.
2. SLOPE THE TRACKING PAD IN A MANNER TO DIRECT RUNOFF TO AN APPROVED TREATMENT PRACTICE.
3. INSTALL TRACKING PAD ACROSS FULL WIDTH OF THE ACCESS POINT, OR RESTRICT TRAFFIC TO A DEDICATED EGRESS LANE AT LEAST 12-FEET WIDE ACROSS THE TOP OF THE PAD.

STONE TRACKING PAD AND TIRE WASHING DETAIL

C 400 NOT TO SCALE

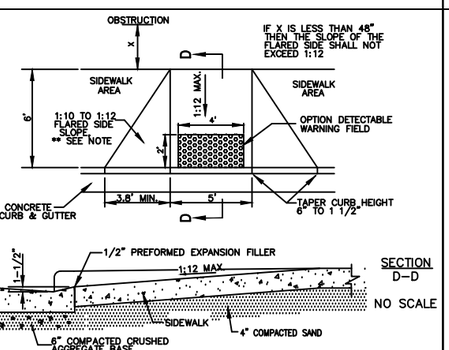


	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

*THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.

HANDICAPPED RAMP

C 433 NOT TO SCALE

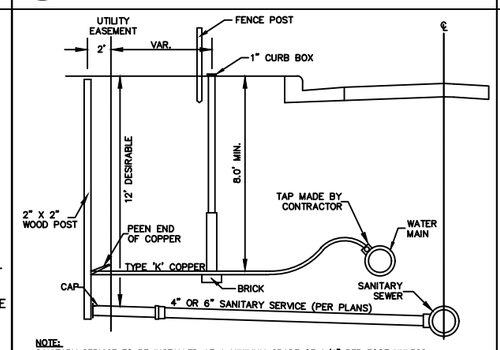


NOTES:

* 2'x4' DETECTABLE WARNING FIELD SHALL BE A METAL PANEL #644-2061, CHROME YELLOW MED. DCC-1003 DEGUSSA, MFR. MetaDome, LLC, 2136 E. DAYTON ST., MADISON, WI 53704, 608-249-8644, (www.metadomelic.com) OR APPROVED EQUAL. INSTALL AS PER MANUFACTURER'S SPECIFICATIONS.
* THE SURFACE TEXTURE OF THE RAMP (EXCLUDING ANY TRUNCATED DOME PANEL) SHALL BE A COARSE BROOMED FINISH, TRANSVERSE TO THE SLOPE OF THE RAMP.

HANDICAP RAMP DETAIL

C 436 NOT TO SCALE



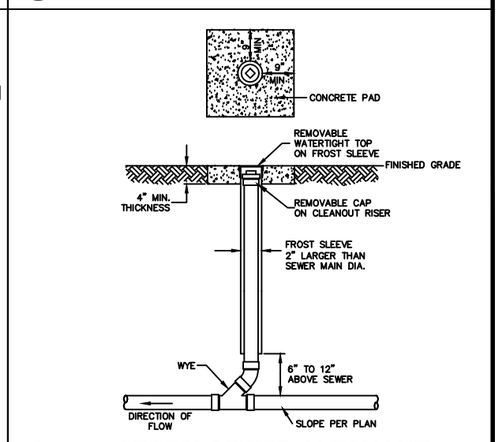
NOTE:

SANITARY SERVICE TO BE INSTALLED AT A MINIMUM GRADE OF 1/4" PER FOOT UNLESS OTHERWISE REQUIRED BY THE MUNICIPALITY.

MINIMUM VERTICAL SEPARATION BETWEEN SERVICES SHALL BE 12" VERTICAL IF LESS THAN 18" HORIZONTAL EXCEPT WHEN WATER SERVICE IS 2 1/2" OR LARGER, THEN AN 8' HORIZONTAL SEPARATION IS REQUIRED.

WATER AND SANITARY SERVICE LATERALS

S 200 NOT TO SCALE



STORM SEWER CLEANOUT

S 206 NOT TO SCALE

NO.	DATE	REVISIONS	DRAFTED BY	DESIGN BY	CHECKED
–	–	–	–	–	–

PROJ. NO. 18341

AEC

ADVANCED ENGINEERING CONCEPTS
1360 INTERNATIONAL DRIVE
EAU CLAIRE, WI 54701
PH: 715-552-0330
info@ris-aec.com
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DETAILS

SMILES IN MOTION-RICE LAKE
VECTOR PARTNERS LLC
840 BEAR PAW AVENUE
RICE LAKE, WI

DWG NAME 18341 PG7 DETAILS

DATE 10/2018

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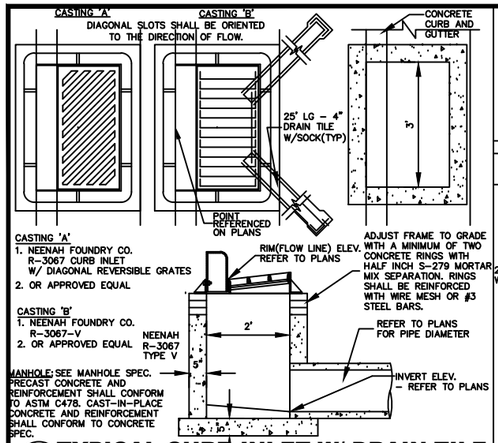
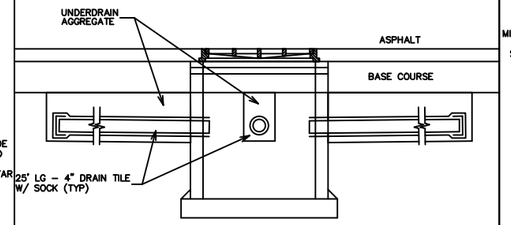


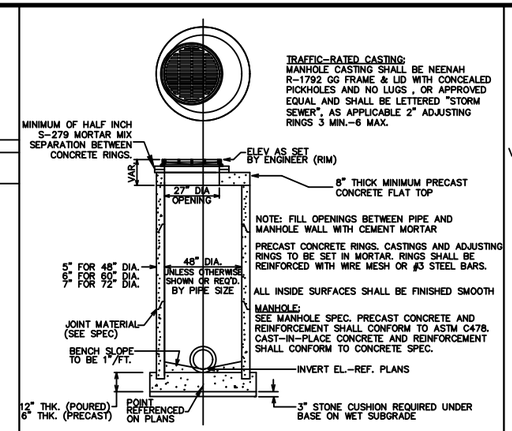
SS 101 **TYPICAL CURB INLET W/ DRAIN TILE**

NOT TO SCALE



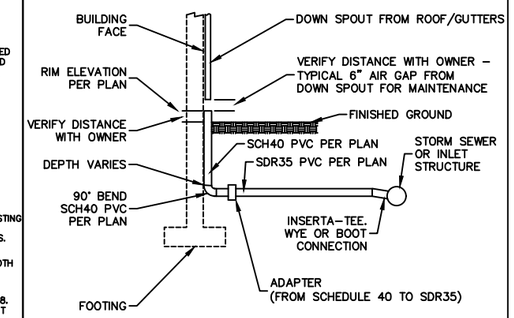
SS 206 **STANDARD UNDERDRAIN MANHOLE**

NOT TO SCALE



SS 220 **STORM AREA INLET MANHOLE**

NOT TO SCALE



SS 500 **DOWN SPOUT COLLECTION DETAIL**

NOT TO SCALE

NO.	DATE	REVISIONS	DRAFTED BY	DESIGN BY	CHECKED
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PROJ. NO. 18341

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EAU CLAIRE, WI 54701
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DETAILS

SMILES IN MOTION–RICE LAKE
VECTOR PARTNERS LLC
840 BEAR PAW AVENUE
RICE LAKE, WI

DWG NAME 18341 PG7 DETAILS

DATE 10/2018

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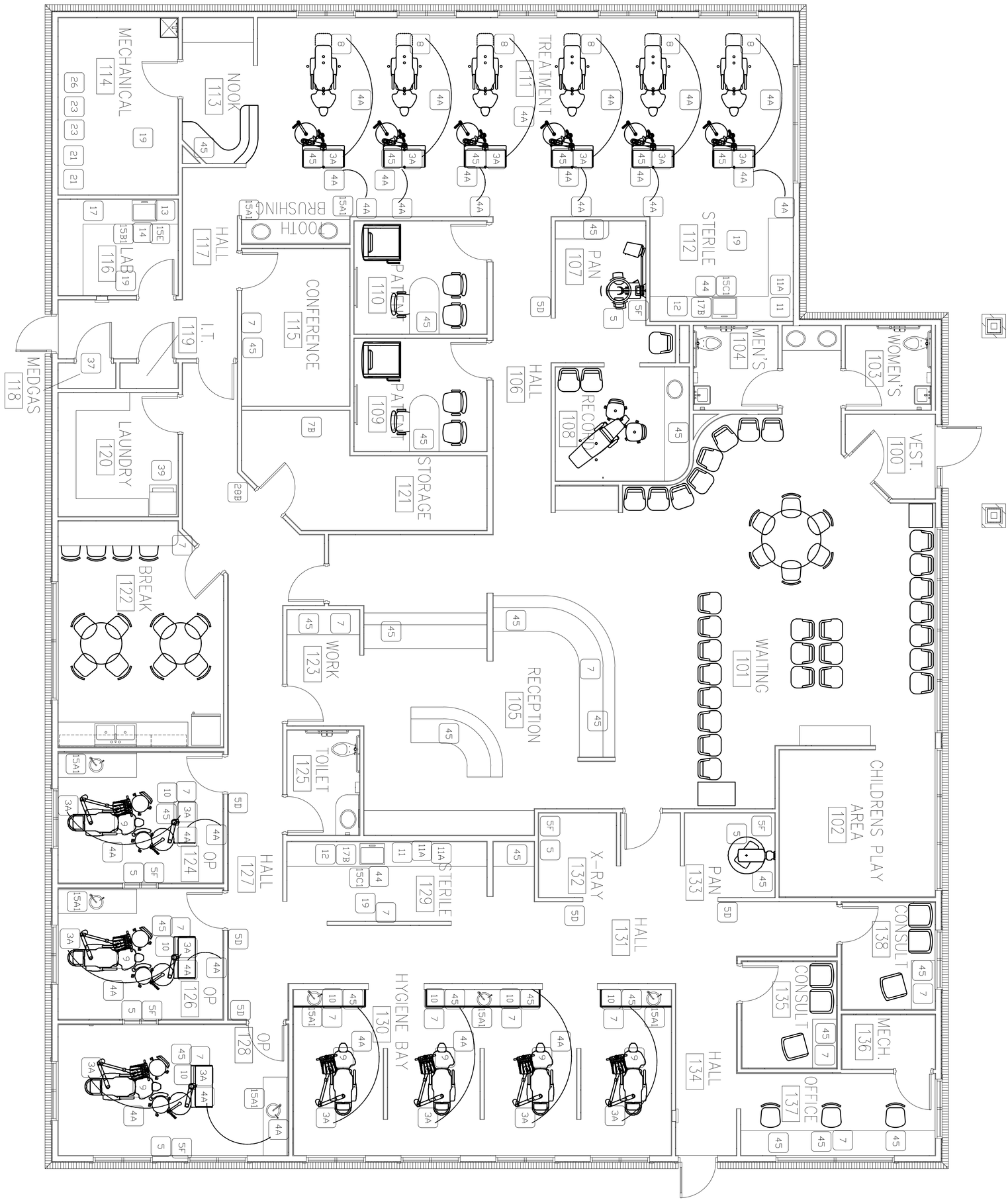

PREFERRED DENTAL SERVICES

PDS EQUIP. SPECIALIST:

RICHARD WILDE - 920-660-4524
richard@pdsdentalequipment.com

PAUL PHELPS - 608-444-6772
paul@pdsdentalequipment.com

PROJECT:
SIMKO
RICE LAKE

-IMPORTANT NOTE -

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ALL DIMENSIONS ARE SUBJECT TO JOB SITE VERIFICATION

DATE: 10-22-18

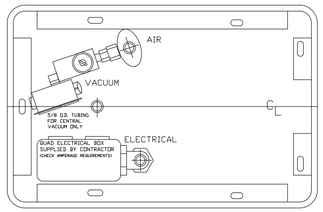
DRAWN BY: P. LeVINE

REVISED:
11-13-18

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

SIZE:
D

SHEET 1 OF 4



CONSULT LOCAL CODES BEFORE INSTALLATION OF THIS UNIT.

3A UTILITY CENTER ASSISTANT'S. SIDE
SELF CONTAINED WATER SYSTEM

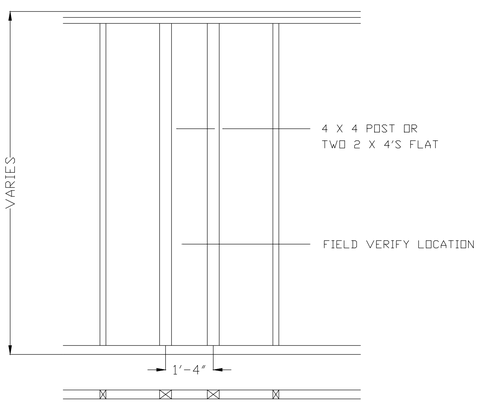
GENERAL NOTES:

1. THIS PLAN SHOWS TYPICAL LOCATIONS OF FLOOR BOX UTILITIES.
2. LOCAL REGULATIONS PROVIDE THAT LICENSED PLUMBERS AND SHALL INSTALL UTILITIES.
3. MAKE SURE ALL PLUMBING CONFORMS TO PREVAILING LOCAL CODES.

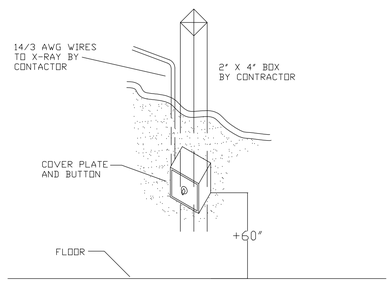
AIR: 1/2" COPPER PIPE N.P.T. PROTRUDING 2" FROM FLOOR OR WALL. SUPPLIED BY CONTRACTOR. MANUAL SHUTOFF VALVE WITH CHROME 3/8" ANGLE STOP SUPPLIED BY PLUMBER AND INSTALLED BY CONTRACTOR. AIR PRESSURE 80-100 P.S.I. AIR PLUMBING SHOULD BE FINISHED CLEAN BEFORE MAKING FINAL CONNECTIONS TO DENTAL EQUIPMENT.

ELECTRICAL: 1/2" CONDUIT AND BOX WITH QUAD OR EQUAL RECEPTACLE SUPPLIED BY CONTRACTOR. WIRE BOX AS PER CODE WITH TOP OF BOX NO HIGHER THAT 5" A.F.F. VOLTAGE: 115V 3 WIRE.

VACUUM: PLUMBING UP TO UTILITY FLOOR BOX UTILITY CENTER SHOULD BE SPECIFIED BY CENTRAL VACUUM SUPPLIER AND TERMINATED IN UTILITY CENTER WITH 5/8" O.D. TUBE PERPENDICULAR TO FLOOR SIMILAR TO DRAIN CONNECTION.

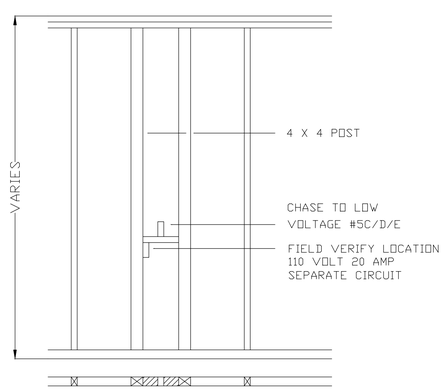


5F X-RAY
MOUNTING SUPPORT

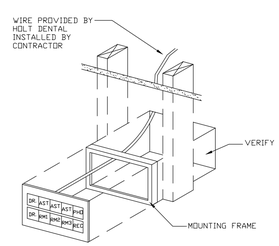


PROVIDED AND INSTALLED BY DENTAL EQUIPMENT COMPANY

5D X-RAY REMOTE MOMENTARY
CONTACT BUTTON



5 X-RAY WALL DETAIL



PROVIDED BY HOLT DENTAL AND INSTALLED BY CONTRACTOR
NOTE: SEE PLAN FOR POWER LOCATION

7 SIGNAL LIGHT
COMMUNICATION SYSTEM

PREFERRED DENTAL SERVICES

DENTAL EQUIPMENT SPECIFICATION SHEET

A = APPLICABLE, ONLY NUMBERS REFERENCED ON THE DENTAL LAYOUT SHEET APPLY

A		COLD WATER	HOT WATER	DRAIN	AIR	NATURAL GAS	VACUUM	N_2O & O	OXYGEN	VENT	ELECTRICAL	VOLTAGE & AMPS	DEDICATED CIRCUIT	LOW VOLTAGE	REMOTE SWITCH	DETAIL NUMBER	SPEC NUMBER
	1			X	X						X	115V - 20A				D-1	1
	2	X			X						X	115V - 20A				D-2	2
	2A				X						X	115V - 20A				D-2A	2A
	3	X			X						X	115V - 20A				D-3	3
A	3A				X		X				X	115V - 20A				D-3A	3A
	4				X						X						4
A	4A																4A
A	5										X	SEE MFG. SPECS	X				5
	5A										X	115V-20A or 220V-20A				D-5A	5A
	5B										X	115V-20A or 220V-20A				D-5B	5B
	5C										X			X		D-5C	5C
A	5D															D-5D	5D
	5E															D-5E	5E
A	5F															D-5F	5F
	6										X	115V - 1A				D-6	6
A	7										X	115V - 15A		X		D-7	7
A	7B										X						7B
A	8										X	115V - 9A				D-8	8
A	9										X	115V - 3A				D-9	9
	9A										X	115V - 3A				D-9A	9A
	9B										X	115V - 3A					9B
	9C										X	115V - 3A					9C
A	10						X	X	X							D-10	10
	10A								X							D-10	10A
	10B																10B
A	11										X	115V 20A	X				11
A	11A										X	115V 20A 50/60 Hz	X			D-11A	11A
	11B										X	220V 15A	X				11B
A	12			X							X	120V 15A	X			D-12	12
	12A										X	115V					12A
	12B	X	X								X	220V	X				12B
A	13	X		X							X	115V				D-13	13
A	14																14
	15	X	X	X													15
A	15A1	X	X	X													15A1
	15A2	X	X	X													15A2
A	15B1	X	X	X													15B1
	15B2	X	X	X													15B1
A	15C1	X	X	X													15C1
	15C2	X	X	X													15C2
	15D	X	X	X													15D
A	15E	X															15E
	15F	X	X	X	X						X	115V					15F
	16				X												16
	16A				X												16A
A	17				X											D-17	17
	17A					X										D-17-3	17A
A	17B				X											D-17-1	17B
	18										X	115V - 15A					18
A	19										X	115V - 15A					19
	20				X						X	See mfg. specs.	X		X	D-20	20
A	21				X						X	See mfg. specs.	X		X	D-21	21
	22	X			X		X			X	X	See mfg. specs.	X		X	D-22	22
A	23				X		X			X	X	See mfg. specs.	X		X	D-23	23
	23A				X		X			X	X	See mfg. specs.	X		X	D-23A	23A
	23B				X		X			X	X	See mfg. specs.	X		X	D-23B	23B
	24																24
	25				X						X						25
A	26	X									X	115V 24A		X	X	D-26	26
	27	X															27
	28										X			X		D-28	28
	28A										X			X		D-28A	28A
A	28B										X			X		D-28B	28B
	30										X	115V					30
	31	X		X							X	115V				D-31	31
	31A										X	115V				D-31A	31A
	32										X	115V				D-32	32
	32A										X						32A
	32B																32B
	33															D-33	33
	33A															D-33A	33A
	34																34
	35										X	115V 15A					35
	36										X	115V 20A	X				36
	36A										X	110V					36A
A	37						X	X	X		X	115V 15A				D-37	37
A	37A																37A
A	38										X	115V 15A	X			D-38	38
	38A																38A
	39	X	X	X		X					X	115V-15A or 220V-20A					39
	40										X	115V 15A					40
	40A										X	115V 15A					40A
	41										X						41
	41A										X						41A
	41A										X			X			41A
	42										X	115V (AMPS VARY)					42
	43										X	115V (AMPS VARY)	X			D-43	43
A	44																44
A	45										X	115V 20A					45
	46										X	115V 20A					46
	47										X						47
	48										X		X				48
	49																

NOTES:

A = APPLICABLE, ONLY NUMBERS REFERENCED ON THE DENTAL LAYOUT SHEET APPLY
ALL EXACT EQUIPMENT LOCATION WILL BE SPOTTED ON THE JOB BY A PREFERRED DENTAL REPRESENTATIVE.
THIS SPECIFICATION SHEET IS INTENDED AS A GUIDE FOR TRADESMEN. THE FLOOR PLANS ENCLOSED HEREIN ARE SUGGESTION FOR THE PLACEMENT OF DENTAL EQUIPMENT. THEY ARE NOTE INTENDED FOR CONSTRUCTION.
ALL REQUIREMENTS TO BE VERIFIED BY MANUFACTURER'S SPEC SHEETS. PROVIDED BY PREFERRED DENTAL.
MANUFACTURER'S SPECS SUPERSEDE ANY AND ALL INFORMATION CONTAINED HEREIN.

SIZE: D
SCALE: 1/4" = 1'-0"
SHEET 2 OF 4

REVISED: 11-13-18

DATE: 10-22-18
DRAWN BY: P. LeVINE

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PROJECT:
SIMKO
RICE LAKE

PREFERRED DENTAL SERVICES
PDS EQUIP. SPECIALIST:
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richard@pdsdentalequipment.com
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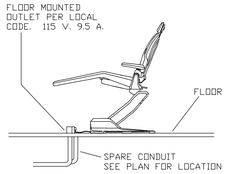
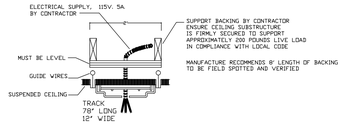
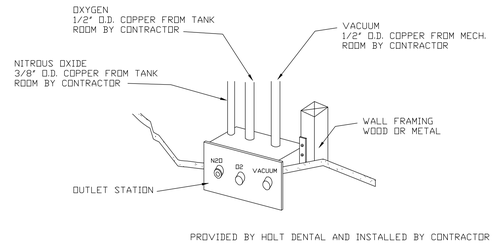
paul@pdsdentalequipment.com



8 DENTAL CHAIR RECEPTACLE

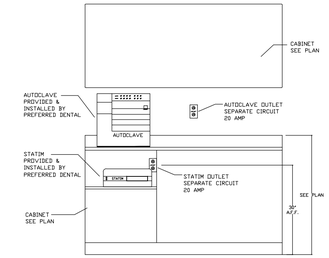


9 DENTAL LIGHT TRACK MOUNT

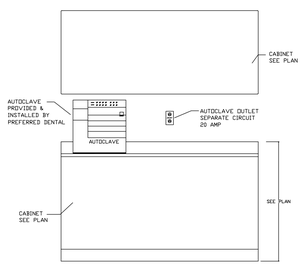


PROVIDED BY HOLT DENTAL AND INSTALLED BY CONTRACTOR

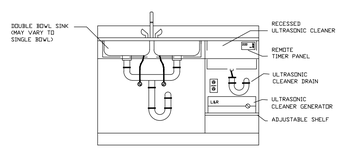
10 NITROUS OXIDE AND OXYGEN STATION



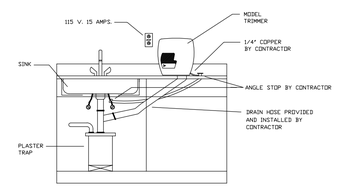
11 STERLIZER STATIM



11A STERLIZER AUTOCLAVE

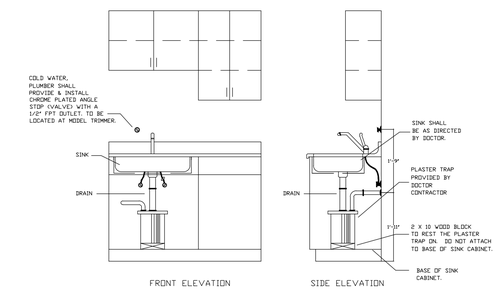


12 ULTRASONIC WASHER



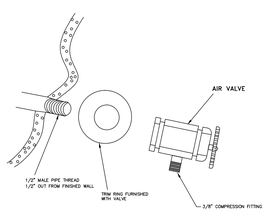
NOTE: EXACT LOCATION AND SINK
SIDE MAY VARY. TO BE SPOTTED BY
HOLT DENTAL EQUIPMENT REP.

13 MODEL TRIMMER



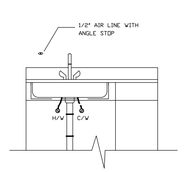
FRONT ELEVATION SIDE ELEVATION

14 PLASTER TRAP



PROVIDED AND INSTALL BY CONTRACTOR

17 AIR VALVE LAB



17B AIR CLEANING STATION

OSPREY

OSPREY SITE INFORMATION

PLACEMENT

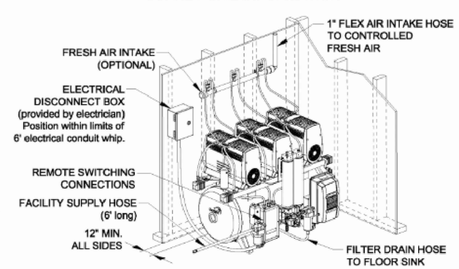
- Indoor use only, in a dust free room.
- Ventilation required for room to remain between 32° to 100°F (0° to 37.7°C). Forced air & HVAC must be used, in addition, if ambient temperatures do no fall into this range
- Do not install on surfaces with more than a 5° incline.

ELECTRICAL

- It is recommended that this equipment be installed by a licensed electrical contractor only and must comply with local and national electrical codes.
- Install a dedicated elecrical circuit of sufficient capacity (See Specification table).
- Any means provided to isolate this device from the supply mains shall isolate all poles simultaneously. The disconnection means and overcurrent protection are to be provided by the installer. This device should always be attached to a dedicated circuit with appropriate wiring and circuit protection.

PLUMBING

- It is recommended that this equipment be installed by a licensed plumbing contractor only and must comply with local and national plumbing codes.
- Connect Drain Hose to fitting on bottom of coalescing filter and direct it into floor drain for disposal of water.
- Connect compressor air outlet to facility plumbing with provided Supply Hose (3/8" mnpt x 3/8" mnpt x 6 ft long).
- Connect Fresh Air Manifold to controlled fresh air source.
- Connect only equipment suitable for listed maximum pressure of the compressor.

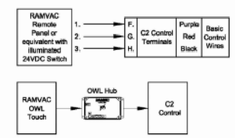


SPECIFICATIONS						
MODEL	OSP22B/ OSP22S	OSP13B/ OSP13S	OSP23B/ OSP23S	OSP24B/ OSP24S	OSP25B/ OSP25S	OSP28B/ OSP28S
MAX USERS	2-3	3-4	3-4	4-6	5-7	8-11
MOTOR PER UNIT	1	2	2	2	2	3
HP PER MOTOR	2	1.25	1.25	LEFT 1.25 RIGHT 2	2	2
VOLTAGE	230V (208-253)	115V (103-126)	230V (208-253)	230V (208-253)	230V (208-253)	230V (208-253)
BREAKER SIZE (recommended)	20 amp	30 amp	20 amp	20 amp	30 amp	40 amp
FUSETRON SIZE (recommended)	FRN 15	FRN 25	FRN 15	FRN 20	FRN 25	FRN 40
UNIT POWER CONSUMPTION	10.5 amps	23 amps	11.5 amps	16.3 amps	21 amps	32 amps
UNIT DIMENSIONS (W x D x H)	29" x 21" x 29"	29" x 21" x 29"	29" x 21" x 29"	35" x 25" x 30"	35" x 25" x 30"	41" x 29" x 32"
WEIGHT	160 lbs	190 lbs	190 lbs	250 lbs	260 lbs	385 lbs
TANK SIZE	12 gallon	12 gallon	12 gallon	20 gallon	20 gallon	30 gallon
dBA LEVELS (with/without Sound Cover)	65/73	70/78	70/78	72/80	76/82	78/84
CFM @ 80 PSI	6.0	6.6	6.6	9.3	12.0	16.1
BTU/HR (heat released to room)	1762	1963	1963	2343	2815	4522
OPERATING PRESSURES	586 kpa/85 psi to 793 kpa/115 psi with ±2% Total Error Band					

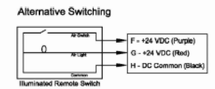
REMOTE SWITCHING

- Maximum wire length for low voltage 18 gauge wire is 500 feet.
- OWL to C2 connection must be made with Cat 6 shielded cable using RJ45 connectors (up to 300 feet).

Recommended Switching



Alternative Switching



THIS SHEET IS NOT INTENDED TO REPLACE THE INFORMATION FOUND IN THE INSTALLATION MANUALS. REFERENCE MANUALS FOR FULL INSTALLATION, SAFETY AND PRECAUTIONS.

RAMVAC Utility

DentalEZ

7595-003A
JANUARY, 2018

21 AIR COMPRESSOR W/DRYER CUT SHEET

SIZE: D

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

SHEET 3 OF 4

REVISED: 11-13-18

DATE: 10-22-18

DRAWN BY: P. LeVINE

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ALL DIMENSIONS ARE SUBJECT TO JOB SITE VERIFICATION

PROJECT:
SIMKO
RICE LAKE

PREFERRED DENTAL SERVICES

PDS EQUIP. SPECIALIST:
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richard@pdsdentalequipment.com

PAUL PHELPS - 608-444-6772
paul@pdsdentalequipment.com

BISON

BISON® - 30 GALLON OTTER TANK™ STACKED SITE INFORMATION

FACILITY EXHAUST LINES

- 2" schedule 80 PVC or CPVC, or metal (not tar coated) with DWV fittings or equivalent. (Option: PVC schedule 40 or equivalent after first 10 feet of run).
- Slope: All horizontal lines toward the vacuum unit, a standard plumbing slope.
- Minimum exhaust length=15 feet from Ramvac pump to outside end.
- Run dedicated exhaust line for each Ramvac unit installed.
- Do not connect to plumbing vents.
- Lines must be installed to prevent condensation.
- Turn outside end down toward ground and screen to prevent entry of water, debris and creatures. Locate to prevent exhaust from entering building.

FACILITY VACUUM LINES FROM OPERATORIES

- 2" (or larger) PVC schedule 40 with DWV fittings or equivalent.
- Minimum slope 1/4" per 10 ft.

TANK TO VACUUM POWER UNIT LINE

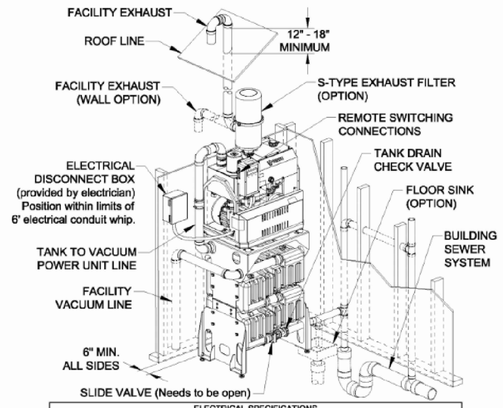
- 2" PVC schedule 40 with DWV fittings or equivalent.
- Use new, clean pipe to connect tank to vacuum power unit. Do NOT reuse old or existing pipe.

TANK DRAIN LINE

Waste pipe, slide valve and drain check valve:

- 1-1/2" PVC schedule 40 with DWV fittings.
- Minimum slope 1/4" per 10 ft.
- Use only Ramvac supplied 1-1/2" drain check valve.
- Drain into building sewer system.

THIS SHEET IS NOT INTENDED TO REPLACE THE INFORMATION FOUND IN THE INSTALLATION MANUALS. REFERENCE MANUALS FOR FULL INSTALLATION, SAFETY AND PRECAUTIONS.



ELECTRICAL SPECIFICATIONS								
MODEL	MOTOR				THHN Wire Size		PROTECTION	
	Hp (kW)	Phase	Voltage	Max Amps	50 ft.	100 ft.	Breaker	Fusetron
Bison 3, 5, 7 60 Hz	3.0 (2.2)	1	230v	16.0 A	10 ga.	10 ga.	20 amp	FRN 25
		3	230v	8.4 A	12 ga.	12 ga.	15 amp	FRN 12
			460v	4.2 A	12 ga.	12 ga.	15 amp	FRN 5
Bison 9 60 Hz	5.0 (3.7)	3	230v	13.2 A	12 ga.	12 ga.	20 amp	FRN 25
			460v	6.6 A	12 ga.	12 ga.	15 amp	FRN 10

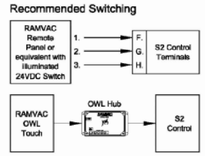
PRODUCT DIMENSIONS	30 GALLON OTTER TANK	BISON 3/ BISON 5	BISON-30 GALLON OTTER TANK STACKED	BISON 7/ BISON 9	50 GALLON CYLINDRICAL TANK
Nominal Width	29" (737 mm)	26" (660 mm)	32" (813 mm)	26" (660 mm)	22" (559 mm)
Nominal Depth	21" (533 mm)	19" (483 mm)	21" (533 mm)	22" (559 mm)	22" (559 mm)
Nominal Height	36" (914 mm)	30" (762 mm)*	70" (1778 mm)*	30" (762 mm)*	62" (1575 mm)
Drain Valve Centerline to Floor	8" (203 mm)	N/A	8" (203 mm)	N/A	5" (127 mm)
dBA Levels	N/A	74/75	74/75/77/79	77/79	N/A

* For S-Type Exhaust Filters add 26 inches to height of power units.

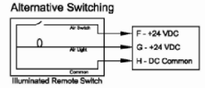
REMOTE SWITCHING

- Maximum wire length for low voltage 18 gauge wire is 500 feet.
- OWL to S2 connection must be made with Cat 6 shielded cable using RJ45 connectors (up to 300 feet).

Recommended Switching



Alternative Switching



NOTES:

- It is recommended that this equipment be installed by licensed electrical and plumbing contractors only and must comply with local and national electrical and plumbing codes.
- Bison 3, 5 & 7 will release 2673 BTU per hour into room. Bison 9 will release 4454 BTU per hour into room. Ventilation required for room to remain between 32° to 104°F (0° to 40°C). Forced air & HVAC must be used, in addition, if ambient temperatures do no fall into this range.

RAMVAC® Utility

DentalEZ Streamline Solutions

7565-002A
JANUARY, 2016

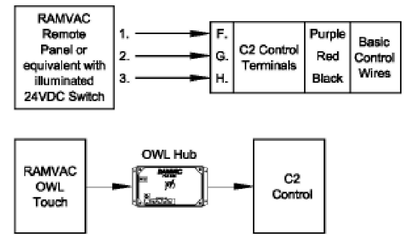
Page 1 / 1

23 VACUUM SYSTEM (DRY) CUT SHEET

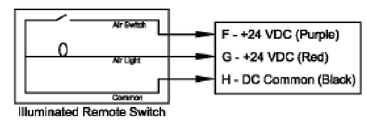
REMOTE SWITCHING

- Maximum wire length for low voltage 18 gauge wire is 500 feet.
- OWL to C2 connection must be made with Cat 6 shielded cable using RJ45 connectors (up to 300 feet).

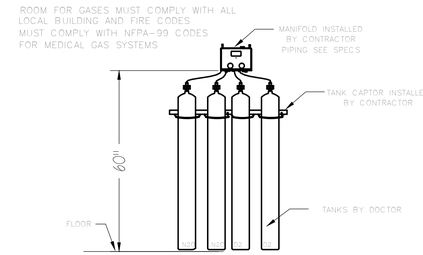
Recommended Switching



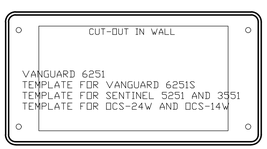
Alternative Switching



28B REMOTE PANEL (AIR & VACUUM)



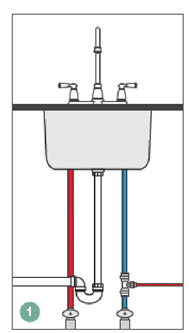
37 NITROUS OXIDE & OXYGEN MANIFOLD SYSTEM

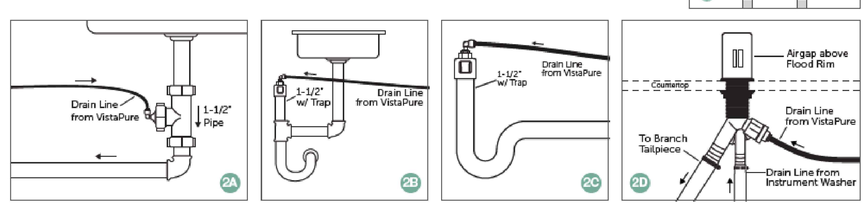


38 NITROUS OSIDE & OXYGEN ALARM SYSTEM

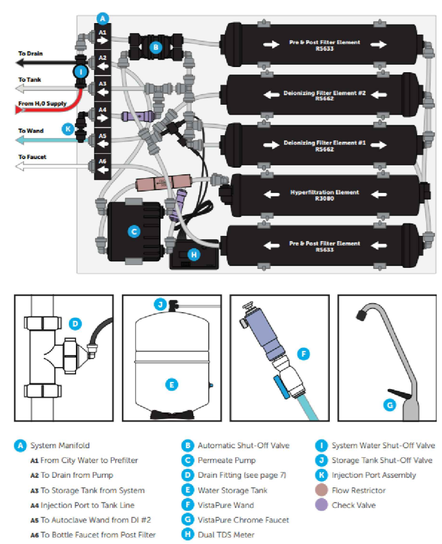
Installation Requirements

1. **¼" connection to municipal cold water supply**
   - Source water should be free of sediment, and softened if hardness exceeds 10 grain/ gallon (or > 171 ppm).
   - Inbound municipal water pressure should be between 40-100 psi.
   - Adapter fittings for 3/8" smooth and braided supply lines are included.
2. **Drain connection using 1-½" material with trap**
   - 1-½" utility tee with both 3/8" and ¼" push-in fittings is included.
   - Air gap accessories are available separately if required by local code authorities.





System Overview



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44 VISTA PURE WATER FILTRATION CUT SHEET

SCALE: 1/4" = 1'-0"
SIZE: D
SHEET 4 OF 4

REVISED: 11-13-18

DATE: 10-22-18
DRAWN BY: P. LeVINE

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ALL DIMENSIONS ARE SUBJECT TO JOB SITE VERIFICATION

PROJECT:
SIMKO
RICE LAKE

PREFERRED DENTAL SERVICES
PDS EQUIP. SPECIALIST:
RICHARD WILDE - 920-660-4524
richard@pdsdentalequipment.com
PAUL PHELPS - 608-444-6772
paul@pdsdentalequipment.com

GENERAL NOTES:
1. RECESSED CANS IN CORRIDORS SHALL WITH em DESIGNATION SHALL BE CONNECTED TO EMERGENCY LIGHTING INVERTER.
2. TYPE EMR FIXTURES ON EXTERIOR SHALL BE CONNECTED TO EMERGENCY LIGHTING INVERTER.
3. EXIT SIGNS SHALL BE BATTERY PACK.
4. CONNECT EXTERIOR BUILDING MOUNTED LIGHTING, AND PARKING LOT LIGHTING TO LIGHTING CONTROL PANEL (LP-1)
KEY NOTES:
1 LOCATE CANS ABOVE RECEPTION DESK IN SOFFIT.

1 LIGHTING PLAN

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

FOR DESIGN PURPOSES ONLY-NOT A CONSTRUCTION DOCUMENT

WERNER ELECTRIC
SOLUTION • SUPPLY • SUPPORT
1338 N HASTINGS WAY
EAU CLAIRE, WI 54703
715-835-5176
www.wernerelec.com

Meyers ELECTRIC
MEYERS ELECTRIC
12586 220TH AVE
DIANE SANDOK
CELL: 715-234-3901
EMAIL: diane@meyerselectricllc.com

SMILES IN MOTION
RICE LAKE, WI

SEAL: LC

"PATTY HEBERT, LC"
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DATE

DESIGN RECORD	
02-07-2019	REVISED
02-18-2019	REVISED
02-25-2019	REVISED
02-27-2019	REVISED
DATE	DESCRIPTION

DESIGN INFORMATION

DESIGNER: PATTY HEBERT, LC
715-835-5176
phebert@wernerelec.com
QUOTES: P. HEBERT
ACCOUNT MANAGER: M. GERMANN

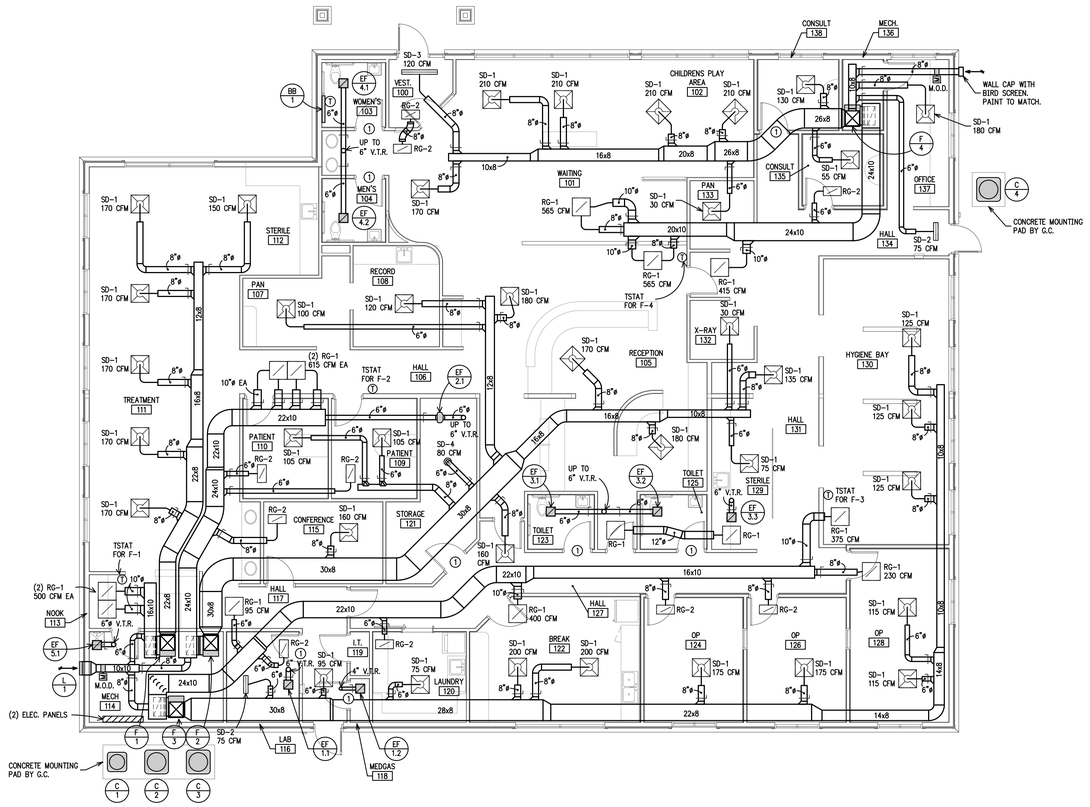
SHEET TITLE
LIGHTING PLAN

SHEET NUMBER
WE100

MECHANICAL SHEET INDEX	
M1.1	MAIN LEVEL FLOOR PLAN – HVAC
M2.1	HVAC SCHEDULES, NOTES, AND DETAILS

MECHANICAL PLAN NOTES:

1. UNDERCUT DOOR, STORAGE ROOM 121:
   UNDERCUT DOOR BY G.C. FIELD COORDINATE.



1 / M1.1 MAIN LEVEL FLOOR PLAN (HVAC)

1/8"= 1'-0"

KURTH SHEET METAL INC
HEATING & COOLING
Custom Fabrication
4115 123rd St
Chippewa Falls, WI
715-723-2211
www.kurthsheetmetal.com

PROPOSED HVAC PLAN FOR:

SMILES IN MOTION

840 BEAR PAW AVENUE

RICE LAKE, WISCONSIN

TITLE:

MAIN LEVEL FLOOR PLAN - HVAC

DO NOT SCALE DRAWINGS
USE FIGURED DIMENSIONS ONLY

PROJECT NO: **18119**

DRAWN BY: **TVA**

DESIGNED BY: **TVA**

DATE: **01-15-19**

SHEET: **M1.1**

APEX Engineering
Eau Claire, Wisconsin
Telephone: 715-835-7736
Web: apexengineering.biz
Project No.: 18119

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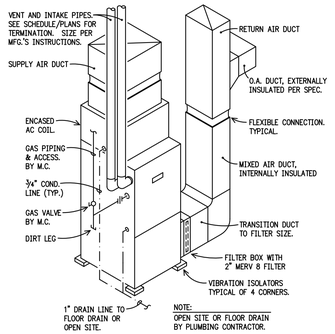
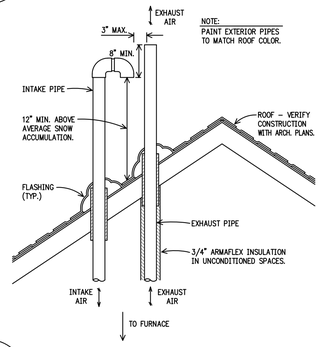


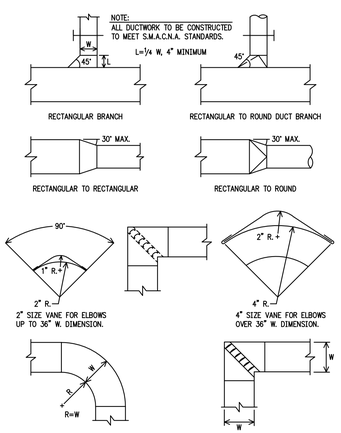
1 / M2.1 GAS FURNACE DETAIL

NO SCALE (WITH AC)



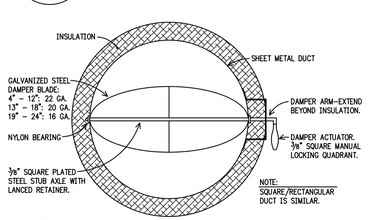
2 / M2.1 VENT/INTAKE TERMINATION DETAIL

NO SCALE (FURNACE/ROOF)



3 / M2.1 DUCTWORK DETAIL

NO SCALE



4 / M2.1 TYPICAL DAMPER DETAIL

NO SCALE

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DUCTWORK/INSULATION SCHEDULE

SYSTEM	DESCRIPTION	CLASS SEAL RATING	VAPOR BARRIER REQ'D	NOTES
SUPPLY AND RETURN PLENUMS FOR ALL AIR HANDLING DEVICES.	GALVANIZED SHEET METAL DUCTWORK WITH 1/2" INTERIOR DUCT LINER PINNED & GLUED AND 2.2" EXTERIOR DUCTWRAP INSULATION.	A	YES	1
SUPPLY MAINS FOR ALL AIR HANDLING DEVICES.	GALVANIZED SHEET METAL DUCTWORK ROUND OR RECTANGULAR WITH 2.2" EXTERIOR DUCTWRAP INSULATION. (R–6 MIN)	A	YES	1,2,3
RETURN MAINS FOR ALL AIR HANDLING DEVICES.	GALVANIZED SHEET METAL DUCTWORK ROUND OR RECTANGULAR.	A	YES	1,2,3
SUPPLY AIR BRANCH DUCTS FROM MAIN TO WITHIN 6' OF DIFFUSER.	GALVANIZED SHEET METAL DUCTWORK ROUND OR RECTANGULAR WITH 2.2" EXTERIOR DUCTWRAP INSULATION. (R–6 MIN)	A	YES	1
RETURN AIR BRANCH DUCTS FROM MAIN TO WITHIN 6' OF DIFFUSER.	GALVANIZED SHEET METAL DUCTWORK ROUND OR RECTANGULAR.	A	NO	1
SUPPLY AND RETURN BRANCH DUCT CONNECTION TO DIFFUSERS.	INSULATED FLEX DUCT, MAXIMUM OF 5–FT TO DIFFUSER. SUPPORT WITH 1" BAND CLAMPS, MAXIMUM SAG OF 2–1/2" BETWEEN CLAMPS.	A	YES	R–4.2
FRESH AIR INTAKE DUCTWORK FROM EXTERIOR TO AIR HANDLING DEVICES.	GALVANIZED SHEET METAL DUCTWORK WITH 2.2" EXTERIOR DUCTWRAP INSULATION. (R–6 MIN)	A	YES	1,2
EXHAUST AIR DUCTWORK WITHIN 10–FEET OF EXTERIOR WALL OR PLENUM DROP THRU ROOF.	GALVANIZED SHEET METAL DUCTWORK ROUND OR RECTANGULAR WITH 2.2" EXTERIOR DUCTWRAP INSULATION. (R–6 MIN)	B	YES	1,2
EXHAUST AIR DUCTWORK BEYOND 10–FEET OF EXTERIOR WALL OR PLENUM DROP THRU ROOF.	GALVANIZED SHEET METAL DUCTWORK ROUND OR RECTANGULAR.	B	NO	1,2
DRIER EXHAUST DUCTWORK.	GALVANIZED SHEET METAL DUCTWORK, NO SCREWS ALLOWED FOR FASTENING. 35' MAX RUN OR PER MANUFACTURERS RECOMMENDATION.	B	NO	1

1. ALL DUCTWORK TO BE FABRICATED PER SMACNA STANDARDS AND INSTALLED PER NFPA 90A AND 90B RECOMMENDATIONS.
2. PROVIDE FLEXIBLE DUCT CONNECTORS ON ALL SUPPLY & RETURN DUCTS CONNECTING TO AIR HANDLING DEVICES.
3. PROVIDE TURNING VANES IN ALL RECTANGULAR 90 DEGREE ELBOWS.

GENERAL MECHANICAL NOTES:

1. ALL WORK SHALL BE IN COMPLIANCE WITH STATE AND LOCAL CODES.
2. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
3. CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND COORDINATING FINAL HVAC EQUIPMENT LOCATION WITH OTHER TRADES BEFORE BEGINNING INSTALLATION AND CONTINUING THROUGHOUT THE PROJECT.
4. PROVIDE FULL SYSTEM START–UP, ONE YEAR PARTS & LABOR WARRANTY, AND 3–RING BINDER WITH O&M MANUALS FOR ALL INSTALLED EQUIPMENT.
5. PROVIDE TESTING, ADJUSTING, AND BALANCING (TAB) FOR THE ENTIRE MECHANICAL SYSTEM IN ACCORDANCE WITH THE CURRENT EDITION OF THE NEBB PROCEDURAL STANDARDS FOR TESTING, ADJUSTING, AND BALANCING OF ENVIRONMENTAL SYSTEMS. INCLUDE TYPE WRITTEN REPORT WHICH SUMMARIZES THE TESTING AND BALANCING AND NOTES ANY DEFICIENCIES FOUND DURING TAB WORK.
6. ALL LINE VOLTAGE POWER AND LINE VOLTAGE CONTROL WIRING SHALL BE BY E.C. ALL LOW VOLTAGE CONTROL WIRING, RELATED CONDUIT, AND GANG BOXES ARE BY M.C. INSTALL ALL THERMOSTAT'S AND SENSORS ON METAL GANG BOXES, RUN ALL LOW VOLTAGE WIRING (SURFACE OR CONCEALED) IN METAL CONDUIT FROM GANG BOX AND TERMINATE ABOVE CEILING OR JOIST SPACE.
7. FURNACE SHALL BE AN APPROVED SEALED COMBUSTION UNIT VENTED TO THE ATMOSPHERE WITH PVC PIPING PER MANUFACTURERS RECOMMENDATIONS.
8. COORDINATE WITH PLUMBING CONTRACTOR FOR THE INSTALLATION OF A FLOOR DRAIN OR RECEPTOR NEAR FURNACE FOR CONDENSATE REMOVAL. IF FLOOR DRAIN IS NOT AVAILABLE, PROVIDE A CONDENSATE PUMP (ONE PER FURNACE) AND PIPE TO NEAREST RECEPTOR.
9. VERIFY 2–PSI NATURAL GAS METER LOCATION WITH LOCAL UTILITIES. ALL NATURAL GAS PIPING SHALL BE B.I. SCHEDULE 40, SIZED, TESTED, AND INSTALLED PER NFPA 54 AND/OR APPLICABLE LOCAL CODE. INSTALL 2" PSI GAS" STICKERS EVERY 10 FT. O/C ON ALL PIPING CARRYING HIGH PRESSURE GAS.
10. PROVIDE A "POUNDS TO INCHES" REGULATOR BETWEEN 2–PSI PIPING AND THE CONVENTIONAL GAS PIPING SYSTEM SERVING EACH APPLIANCE. REGULATOR TO HAVE FULL LOCKUP CAPABILITIES AND INCORPORATE A VENT LIMITING DEVICE OR BE VENTED OUTDOORS. EACH REGULATOR TO BE SIZED TO HANDLE THE GAS LOAD TO THE APPLIANCE IT FEEDS.
11. COMMON SPACE THERMOSTATS SHALL BE 7–DAY ELECTRONIC PROGRAMMABLE TYPE WITH NIGHT SETBACK CAPABILITIES.
12. TEST, ADJUST, AND CALIBRATE ALL CONTROLS UPON COMPLETION OF WORK..
13. INSTALL ALL THERMOSTATS AT 48 INCHES ABOVE FINISHED FLOOR AND PROGRAM PER OWNERS REQUIREMENTS.
14. SEAL ALL EXTERIOR OPENINGS WATER TIGHT.

SEQUENCE OF OPERATION:

FURNACE F–1:

OCCUPIED HOURS:
WITH CONTROLLING THERMOSTAT IN "OCCUPIED" MODE: BLOWER ON FURNACE F–1 AND EXHAUST FANS EF–1.1 & EF–1.2 ARE ENERGIZED AND RUN CONTINUOUS, FRESH AIR INTAKE DAMPER (M.O.D.) SERVING F–1 IS OPEN, AND SPACE TEMPERATURE IS MAINTAINED BY THE OCCUPIED SET POINT OF CORRESPONDING ELECTRONIC PROGRAMMABLE THERMOSTAT.

UNOCCUPIED HOURS:
WITH CONTROLLING THERMOSTAT IN "UNOCCUPIED" MODE: BLOWER ON FURNACE F–1 CYCLES ON & OFF AS REQUIRED, EXHAUST FAN EF–1.1 IS OFF, EXHAUST FAN EF–1.2 REMAINS ENERGIZED AND RUNS 24/7, FRESH AIR INTAKE DAMPER (M.O.D.) SERVING F–1 IS CLOSED, AND SPACE TEMPERATURE IS MAINTAINED BY THE UNOCCUPIED SET POINT OF CORRESPONDING ELECTRONIC PROGRAMMABLE THERMOSTAT.

FURNACE F–2:

OCCUPIED HOURS:
WITH CONTROLLING THERMOSTAT IN "OCCUPIED" MODE: BLOWER ON FURNACE F–2 AND EXHAUST FAN EF–2.1 ARE ENERGIZED AND RUN CONTINUOUS, FRESH AIR INTAKE DAMPER (M.O.D.) SERVING F–2 IS OPEN, AND SPACE TEMPERATURE IS MAINTAINED BY THE OCCUPIED SET POINT OF CORRESPONDING ELECTRONIC PROGRAMMABLE THERMOSTAT.

UNOCCUPIED HOURS:
WITH CONTROLLING THERMOSTAT IN "UNOCCUPIED" MODE: BLOWER ON FURNACE F–2 CYCLES ON & OFF AS REQUIRED, EXHAUST FAN EF–2.1 IS OFF, FRESH AIR INTAKE DAMPER (M.O.D.) SERVING F–2 IS CLOSED, AND SPACE TEMPERATURE IS MAINTAINED BY THE UNOCCUPIED SET POINT OF CORRESPONDING ELECTRONIC PROGRAMMABLE THERMOSTAT.

FURNACE F–3:

OCCUPIED HOURS:
WITH CONTROLLING THERMOSTAT IN "OCCUPIED" MODE: BLOWER ON FURNACE F–3 AND EXHAUST FANS EF–3.1, EF–3.2, & EF–3.3 ARE ENERGIZED AND RUN CONTINUOUS, FRESH AIR INTAKE DAMPER (M.O.D.) SERVING F–3 IS OPEN, AND SPACE TEMPERATURE IS MAINTAINED BY THE OCCUPIED SET POINT OF CORRESPONDING ELECTRONIC PROGRAMMABLE THERMOSTAT.

UNOCCUPIED HOURS:
WITH CONTROLLING THERMOSTAT IN "UNOCCUPIED" MODE: BLOWER ON FURNACE F–3 CYCLES ON & OFF AS REQUIRED, EXHAUST FANS EF–3.1, EF–3.2, & EF–3.3 ARE OFF, FRESH AIR INTAKE DAMPER (M.O.D.) SERVING F–3 IS CLOSED, AND SPACE TEMPERATURE IS MAINTAINED BY THE UNOCCUPIED SET POINT OF CORRESPONDING ELECTRONIC PROGRAMMABLE THERMOSTAT.

FURNACE F–4:

OCCUPIED HOURS:
WITH CONTROLLING THERMOSTAT IN "OCCUPIED" MODE: BLOWER ON FURNACE F–4 AND EXHAUST FANS EF–4.1 & EF–4.2 ARE ENERGIZED AND RUN CONTINUOUS, FRESH AIR INTAKE DAMPER (M.O.D.) SERVING F–4 IS OPEN, AND SPACE TEMPERATURE IS MAINTAINED BY THE OCCUPIED SET POINT OF CORRESPONDING ELECTRONIC PROGRAMMABLE THERMOSTAT.

UNOCCUPIED HOURS:
WITH CONTROLLING THERMOSTAT IN "UNOCCUPIED" MODE: BLOWER ON FURNACE F–4 CYCLES ON & OFF AS REQUIRED, EXHAUST FANS EF–4.1 & EF–4.2 ARE OFF, FRESH AIR INTAKE DAMPER (M.O.D.) SERVING F–4 IS CLOSED, AND SPACE TEMPERATURE IS MAINTAINED BY THE UNOCCUPIED SET POINT OF CORRESPONDING ELECTRONIC PROGRAMMABLE THERMOSTAT.

F # GAS FURNACE SCHEDULE

PLAN SYMBOL	GAS TYPE	INPUT MBH	OUTPUT MBH	AFUE	CFM	MIN. F.A.	EXT. S.P.	BLOWER SIZE	BLOWER DRIVE	BLOWER HP	BLOWER ELEC. DATA	PILOT	VENT SIZE	FILTER	MANUFACTURER & MODEL NO.	NOTES
F–1	2–PSI N.G.	40.0	39.0	95.5	1000	90	0.6	11x8	DIR.	1/2	120/1/60	HSI	2"	20x25x2	CARRIER 59SC5AD40S17–12	1,2,3
F–2	2–PSI N.G.	80.0	78.0	95.5	1600	130	0.8	11x10	DIR.	3/4	120/1/60	HSI	2"	20x25x2	CARRIER 59SC5AD80S21–20	1,2,3
F–3	2–PSI N.G.	80.0	78.0	95.5	1600	200	0.8	11x10	DIR.	3/4	120/1/60	HSI	2"	20x25x2	CARRIER 59SC5AD80S21–20	1,2,3
F–4	2–PSI N.G.	80.0	78.0	95.5	1600	150	0.6	11x10	DIR.	3/4	120/1/60	HSI	2"	20x25x2	CARRIER 59SC5AD80S21–20	1,2,3

1. 7–DAY ELECTRONIC PROGRAMMABLE SETBACK THERMOSTAT WITH AUTO CHANGEOVER & OVERRIDE BUTTON BY HONEYWELL #TH8320 SERIES OR EQUAL.
2. PROVIDE A 3/4" CPVC CONDENSATE LINE TO RECEPTOR OR FLOOR DRAIN.
3. EXTEND 2–PIPE PVC VENTING THRU ROOF PER MANUFACTURES REQUIREMENTS. PAINT TO MATCH.

C # CONDENSING UNIT SCHEDULE

PLAN SYMBOL	SERVING INDOOR UNIT	COOLING CAPACITY MBH	CONDENSING UNIT ELECTRICAL DATA	CONDENSING UNIT MCA	CONDENSING UNIT MANUFACTURER & MODEL NO.	EVAPORATOR COIL MANUFACTURER & MODEL NO.	EVAPORATOR COIL COIL TYPE	SEER RATING	EER RATING	ACCESSORIES	NOTES
C–1	F–1	27.4	208/1/60	16.6	CARRIER 24ABB330A8N3	CARRIER CNPVP3017ALA	UPFLOW CASED	13.0	10.5	TDR, 3/4" X 3/8" INSULATED LINESET	1
C–2	F–2	43.5	208/1/60	24.3	CARRIER 24ABB348A8N3	CARRIER CNPVP4821ALA	UPFLOW CASED	13.0	10.5	TDR, 7/8" X 3/8" INSULATED LINESET	1
C–3	F–3	43.5	208/1/60	24.3	CARRIER 24ABB348A8N3	CARRIER CNPVP4821ALA	UPFLOW CASED	13.0	10.5	TDR, 7/8" X 3/8" INSULATED LINESET	1
C–4	F–4	43.5	208/1/60	24.3	CARRIER 24ABB348A8N3	CARRIER CNPVP4821ALA	UPFLOW CASED	13.0	10.5	TDR, 7/8" X 3/8" INSULATED LINESET	1

1. INSTALL ON CONCRETE MOUNTING PAD BY G.C..

EF # EXHAUST FAN SCHEDULE

PLAN SYMBOL	ROOM NO.	SERVING	CFM	ESP	RPM	CURRENT	ELECTRICAL DATA	DRIVE	FAN TYPE	MANUFACTURER & MODEL NO.	CONTROL	ACCESS.	NOTES
EF–1.1	116	LAB 116	60	0.25"	1070	0.20 A	120/1/60	ECM	CABINET	PANASONIC FV–0510VS1	INTERLOCK WITH F–1	1,3	––
EF–1.2	118	MEDGAS 118	30	0.25"	1070	0.20 A	120/1/60	ECM	CABINET	PANASONIC FV–0510VS1	CONTINUOUS 24/7 OPERATION	1,3	––
EF–2.1	121	FURNACE F–2	130	0.25"	2700	0.7 A	120/1/60	DIR.	INLINE	FANTECH FG 6	INTERLOCK WITH F–2	2,3	––
EF–3.1	123	TOILET RM 123	75	0.25"	1070	0.20 A	120/1/60	ECM	CABINET	PANASONIC FV–0510VS1	INTERLOCK WITH F–3	1,3	––
EF–3.2	125	TOILET RM 125	75	0.25"	1070	0.20 A	120/1/60	ECM	CABINET	PANASONIC FV–0510VS1	INTERLOCK WITH F–3	1,3	––
EF–3.3	129	STORAGE RM 129	50	0.25"	1070	0.20 A	120/1/60	ECM	CABINET	PANASONIC FV–0510VS1	INTERLOCK WITH F–3	1,3	––
EF–4.1	103	TOILET RM 103	75	0.25"	1070	0.20 A	120/1/60	ECM	CABINET	PANASONIC FV–0510VS1	INTERLOCK WITH F–4	1,3	––
EF–4.2	104	TOILET RM 104	75	0.25"	1070	0.20 A	120/1/60	ECM	CABINET	PANASONIC FV–0510VS1	INTERLOCK WITH F–4	1,3	––

1. PROVIDE UNIT WITH NEMA–1 DISCONNECT SWITCH AND GRAVITY BACKDRAFT DAMPER.
2. INCLUDE DISCONNECT SWITCH AND WC SERIES ROTARY TYPE VARIABLE SPEED CONTROLLER MOUNTED ON FAN FOR AIR BALANCING.
3. PROVIDE ROOF CAP WITH EPOXY COATED FINISH, BUILT–IN BACKDRAFT DAMPER AND BIRD SCREEN. PAINT TO MATCH EXTERIOR FINISH.

L # LOUVER SCHEDULE

PLAN SYMBOL	SERVING	TYPE	DIMENSIONS (WxHxD)	FREE AREA (SQ FT)	CFM	VELOCITY (FPM)	MATERIAL TYPE	FLANGE	MANUFACTURER & MODEL NO.	ACCESS.	NOTES
L–1	F–1,2,3	INTAKE	16x16x4	0.62	420	679	ALUM.	CHANNEL	GREENHECK ESD–435	1,2	3

1. PROVIDE LOUVER WITH EXTENDED SILL AND BIRD SCREEN
2. INCLUDE FACTORY APPLIED BAKED ENAMEL FINISH, FINAL COLOR SELECTION BY ARCHITECT.
3. LOUVER SHALL BE FURNISHED BY MECHANICAL CONTRACTOR AND INSTALLED BY GENERAL CONTRACTOR

BB # ELECTRIC BASEBOARD HEATER SCHEDULE

PLAN SYMBOL	ROOM NUMBER	LENGTH	WATTS	KW	AMPS	BTUH	ELECTRICAL DATA	CONTROL	MANUFACTURER & MODEL NO.	ACCESS.	NOTES
BB–1	103	3'–0"	750	0.75	3.6	2560	208/1/60	TAMPERPROOF THERMOSTAT	BERKO BK0C2503W	––	1

1. MOUNT BASEBOARD AT 4" A.F.F.

GRILLE, REGISTER, & DIFFUSER SCHEDULE

PLAN SYMBOL	DESCRIPTION	MATERIAL TYPE	MANUFACTURER & MODEL NO.	ACCESSORIES	NOTES
SD–1	24x24 LAY–IN ARCHITECTURAL SUPPLY DIFFUSER WITH 4–WAY DEFLECTION & SQUARE PLAQUE CENTER CORE	STEEL	PRICE SPD	LAY–IN CEILING	1
SD–2	24" ADJUSTABLE MODULINEAR PLENUM SLOT DIFFUSER WITH 6" INLET, 3–SLOT, 1" SLOT WIDTH AND INTERNAL INSULATION.	STEEL	PRICE TBDI–4100	LAY–IN CEILING	––
SD–3	48" ADJUSTABLE MODULINEAR PLENUM SLOT DIFFUSER WITH 8" INLET, 4–SLOT, 1" SLOT WIDTH AND INTERNAL INSULATION.	STEEL	PRICE TBDI–4100	LAY–IN CEILING	––
SD–4	6" ROUND CEILING SUPPLY DIFFUSER WITH 360 DEGREE DISCHARGE PATTERN AND 2–POSITION ADJUSTABLE STEPPED RINGS.	STEEL	PRICE RCDE	SURFACE MOUNT	––
RG–1	24x24 LAY–IN RETURN AIR GRILLE WITH 1/2x1/2x1/2 GRID CORE AND CHANNEL FRAME	ALUM.	PRICE 80F	PLENUM BOX PAINTED BLACK	––
RG–2	24x12 LAY–IN RETURN AIR GRILLE WITH 1/2x1/2x1/2 GRID CORE AND CHANNEL FRAME	ALUM.	PRICE 80F	PLENUM BOX PAINTED BLACK	––

1. SEE FLOOR PLAN FOR REQUIRED NECK SIZE.

APEX Engineering
Eau Claire, Wisconsin
Telephone: 715-835-7736
Web: apexengineering.biz
Project No.: 18119

KURTH SHEET METAL INC
4115 123rd St
Chippewa Falls, WI
715-723-2211
HEATING & COOLING
Custom Fabrication
www.kurthsheetmetal.com

PROPOSED HVAC PLAN FOR:
SMILES IN MOTION
840 BEAR PAW AVENUE
RICE LAKE, WISCONSIN

TITLE:
HVAC SCHEDULES, NOTES & DETAILS

DO NOT SCALE DRAWINGS
USE FIGURED DIMENSIONS ONLY

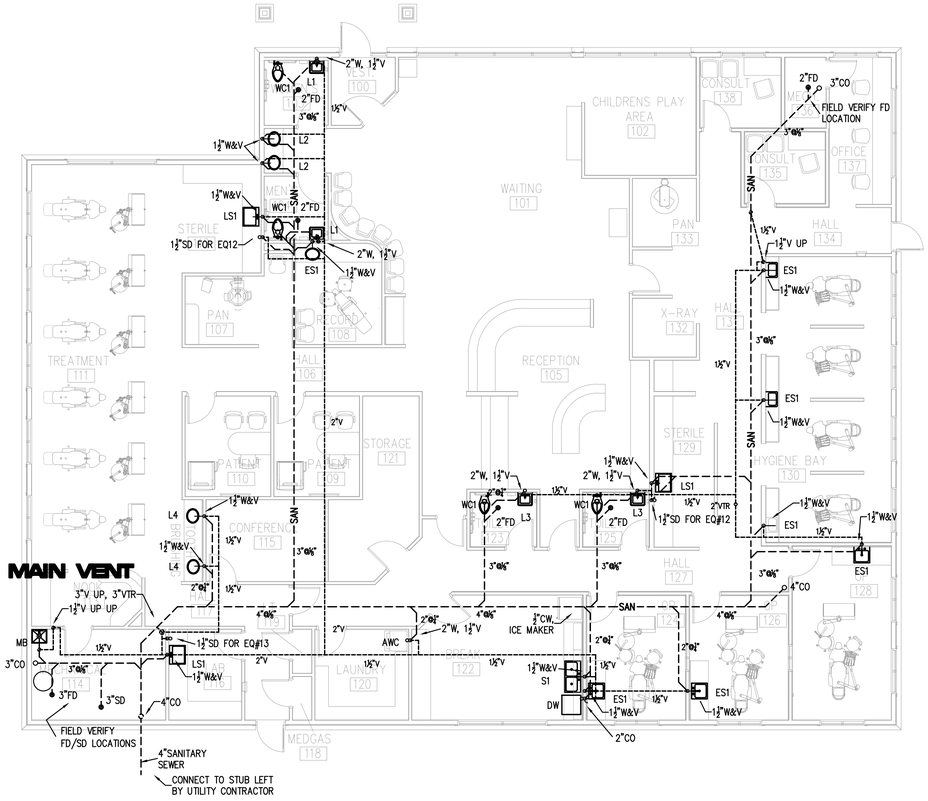
PROJECT NO: **18119**

DRAWN BY: **TVA**

DESIGNED BY: **TVA**

DATE: **01-15-19**

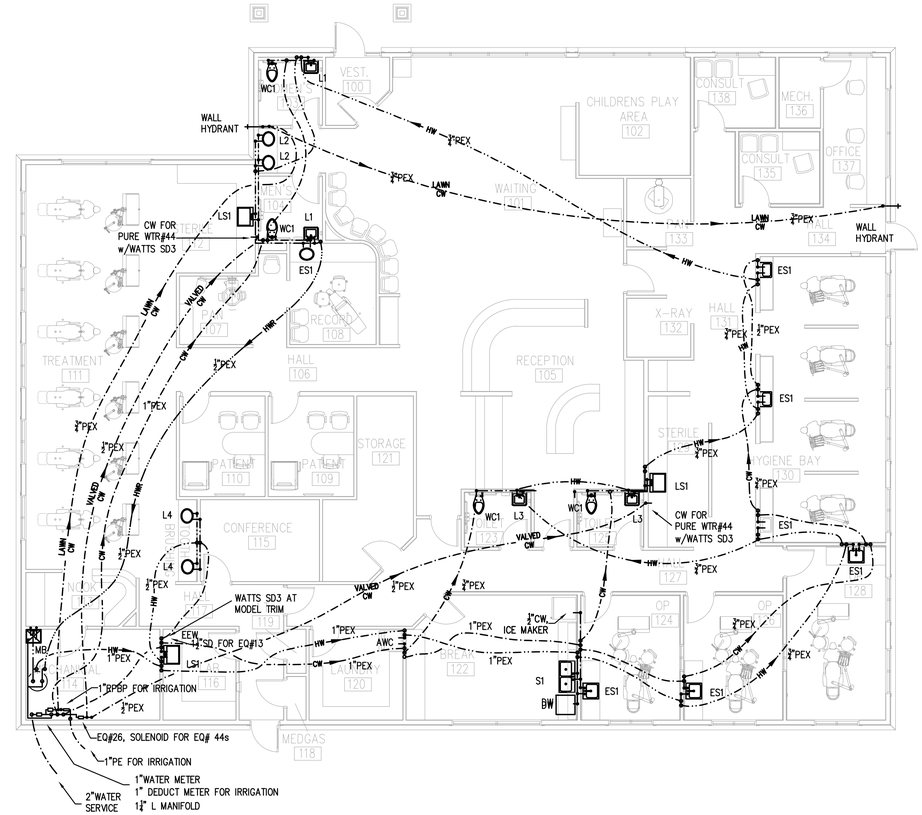
SHEET: **M2.1**



NORTH

FIRST FLOOR PLAN - WASTE AND VENT

1/8"=1'-0"



NORTH

FIRST FLOOR PLAN - WATER

1/8"=1'-0"

ROYAL CONSTRUCTION

3653 GREENWAY STREET
EAU CLAIRE, WI

SHEET INDEX:

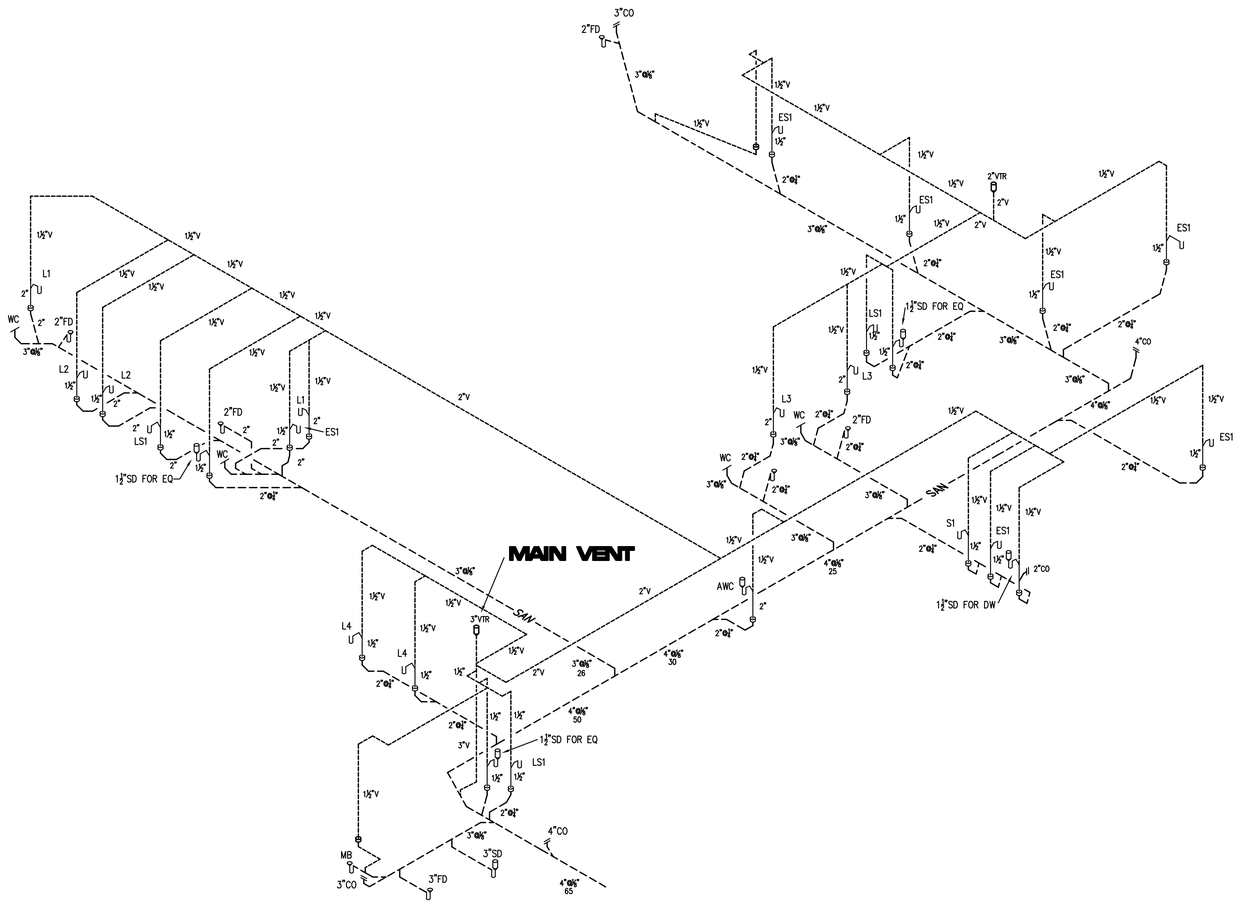
P1 FLOOR PLAN - WASTE AND VENT
FLOOR PLAN - WATER PIPING
SPECIFICATIONS
P2 WASTE & VENT PIPING SCHEMATIC
WATER PIPING SCHEMATIC
P3 PLUMBING SPECIFICATIONS
WATER CALCULATIONS

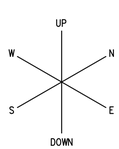
11-08-18

FINAL REVIEW

TAILORED ENGINEERING
7 South Dewey St
Eau Claire, WI 54701
P:608.209.7500

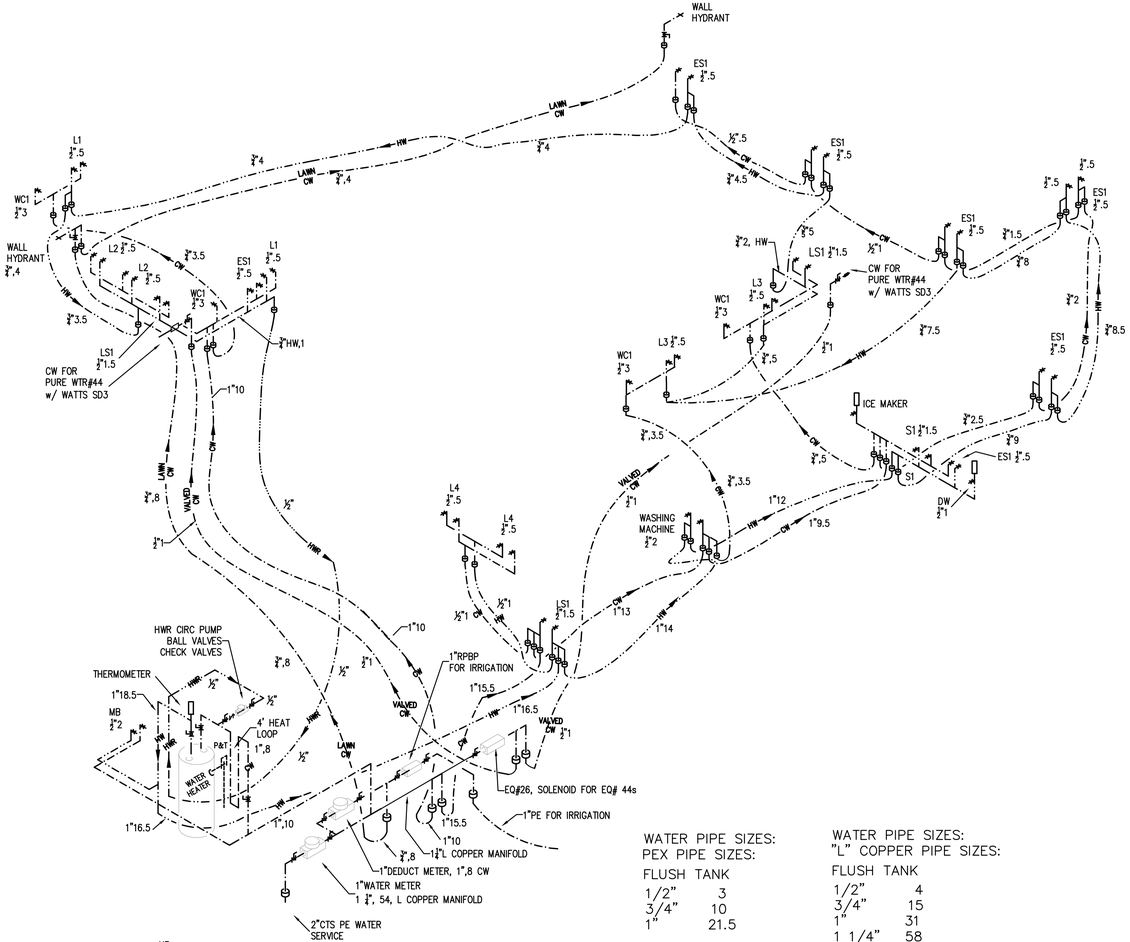
PROJECT TITLE: SMILES IN MOTION 840 BEAR PAW AVE RICE LAKE, WI BARRON COUNTY	DRAWN BY: KH
	CHECKED BY: RN
	DRAWING FILE:
SHEET TITLE: FLOOR PLAN - WASTE AND VENT FLOOR PLAN - WATER PIPING	DATE: 11-09-2018
	SHEET NUMBER: P1





WASTE & VENT PIPING SCHEMATIC

NO SCALE

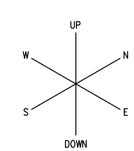


WATER PIPE SIZES:
PEX PIPE SIZES:

FLUSH TANK	
1/2"	3
3/4"	10
1"	21.5

WATER PIPE SIZES:
"L" COPPER PIPE SIZES:

FLUSH TANK	
1/2"	4
3/4"	15
1"	31
1 1/4"	58
1 1/2"	107



WATER PIPING SCHEMATIC

NO SCALE

ROYAL CONSTRUCTION

3653 GREENWAY STREET
EAU CLAIRE, WI

FINAL REVIEW

TAILORED ENGINEERING
7 South Dewey St
Eau Claire, WI 54701
P:608.209.7500

PROJECT TITLE: SMILES IN MOTION 840 BEAR PAW AVE RICE LAKE, WI BARRON COUNTY	DRAWN BY: KH CHECKED BY: RN DRAWING FILE:
SHEET TITLE: FLOOR PLAN - WASTE AND VENT FLOOR PLAN - WATER PIPING SPECIFICATIONS	DATE: 11-09-2018 SHEET NUMBER: P2

11-08-18

WATER CALCULATION WORKSHEET

Information Needed for Water Service Sizing

1. 28 Demand of building in gallons per minute.
2. 60 Low pressure at main
.
3. – Difference in elevation from main to meter (or external pressure tank to building control valve).
4. 1" Size of water meter (if applicable).
5. 200 Developed length from main to meter (or external pressure tank to building control valve.

You Must First Find the Available Pressure After the Water Meter (or at building control valve). To obtain this pressure, you must:

6. 5 Find pressure loss due to friction in 2"CTS PE diameter water service.
7. – Find pressure loss due to elevation, main to meter (or external pressure tank to building control valve). Multiply the difference in elevation by .434 p.s.i./ft.
8. 5 Find pressure loss due to meter. (from manufacturer or AWWA).
9. 50 Subtract the loss due to friction (Step 6), loss due to elevation (Step 7), and loss due to meter (Step 8) from the low main pressure (or low pressure at external pressure tank)(step 2). This calculation is the available pressure after the water meter (or at the building control valve). This answer is entered in Line B, below.

Information Needed for Water Distribution Sizing

Using the following formula, find the pressure available for uniform loss (psi/100' of pipe)

$$A = \frac{B - (C + D + E)}{F} \times 100$$

WHERE:

A. 14 Pressure available for uniform loss (p.s.i./100' of pipe).

B. 50 Available pressure after water meter (at the building control valve or low pressure at internal pressure tank). (See step 9, above).

C. 15 Pressure needed at controlling fixture.

D. 3 Difference in elevation between water meter (building control valve or internal pressure tank) and controlling fixture in feet 6 x .434 p.s.i./ft.

E. --- Pressure loss due to water softeners, water treatment devices, instantaneous water heaters and backflow preventers which serve the controlling fixture. Conventional water heaters usually do not have a pressure loss.

F. 225 Developed length from water meter (building control valve or internal pressure tank) to controlling fixture, 150 x 1.5

With pressure available for uniform loss, go to applicable table for distribution sizing.

SBD-6479 (R. 03/93)

WATER PIPE SIZES:
PEX PIPE SIZES:

FLUSH TANK	
1/2"	3
3/4"	10
1"	21.5

WATER PIPE SIZES:
"L" COPPER PIPE SIZES:

FLUSH TANK	
1/2"	4
3/4"	15
1"	31
1 1/4"	58
1 1/2"	107

PLUMBING SPECIFICIATION

PERMITS
Plumber shall secure all permits and licenses applicable to this branch, pay all fees and comply with all State and Local Codes, ordinances, laws and regulations.

PIPE AND FITTINGS
SANITARY (SAN)
Underground drain, waste and vent piping: SCH 40 PVC pipe and fittings with solvent cement joints
Water Piping:
Water Service: CTS PE, ASTM 2737
Inside of building above ground: PEXa TUBING thru 1", L copper with 95/5 solder joints, CPVC SCH 80 over 2"
Inside of building underground: PEXa TUBING thru 1"

PLUMBING FIXTURES
WC Water Closets
ADA, Mansfield 137-160, vitreous china, elongated bowl, flush tank, siphon jet, vitreous china, elongated bowl, flush tank, siphon jet
bottom outlet water closet, Seat: Bemis white open front seat for elongated bowl.

LAV, L1, HALL HUNG:
Mansfield 2018HB wall hung china lav
Carrier: floor supported leg style carrier with support arms
Chicago 802ABCP, double handle faucet, standard aerator.
Drain: Chrome brass or SS, Perforated strainer, 1 1/4" tailpiece
Supplies: 3/8" chrome plated cast brass angle stop with wheel handle, metal stem, chrome plated flexible copper tube riser and chrome escutcheon.
Trap: semi-cast brass adjustable, polished chrome tube "P" trap and deep pattern escutcheon.
Trap wrap PF-202

LAV, L2, Under counter mount:
Counter tops By Others
Lav bowl: Kohler K-2610-SJ SS bowl for undercounter mounting
Moen S5530 gooseneck single handle faucet, standard aerator.
Supplies: 3/8" chrome plated cast brass angle stop with wheel handle, metal stem, chrome
Drain: Chrome brass or SS, Perforated strainer, 1 1/4" tailpiece
plated flexible copper tube riser and chrome escutcheon.
Trap: semi-cast brass adjustable, polished chrome tube "P" trap and deep pattern escutcheon.
Trap wrap PF-202

LAV, L3:
Mansfield 2018HB wall hung china lav
Carrier: floor supported leg style carrier with support arms
Chicago 895-317 ABCP 5" clear spout, double wrist blade handle faucet, standard aerator.
Supplies: 3/8" chrome plated cast brass angle stop with wheel handle, metal stem, chrome
Drain: Chrome brass or SS, Perforated strainer, 1 1/4" tailpiece
plated flexible copper tube riser and chrome escutcheon.
Trap: semi-cast brass adjustable, polished chrome tube "P" trap and deep pattern escutcheon.
Trap wrap PF-202

LAV, L4:
Counter tops By Others
Lav bowl: By Others
Faucets: By Others
Drain: Chrome brass or SS, Perforated strainer, 1 1/4" tailpiece
Supplies: 3/8" chrome plated cast brass angle stop with wheel handle, metal stem, chrome plated flexible copper tube riser and chrome escutcheon.
Trap: semi-cast brass adjustable, polished chrome tube "P" trap and deep pattern escutcheon.
Trap wrap PF-202

SINK, ES1, Exam Sink
Sink bowl: By Others
Faucet: By Others
Drain: Chrome brass or SS, Perforated strainer, 1 1/4" tailpiece
Supplies: 3/8" chrome plated cast brass angle stop with wheel handle, metal stem, chrome plated flexible copper tube riser and chrome escutcheon.
Trap: semi-cast brass adjustable, polished chrome tube "P" trap and deep pattern escutcheon.

SINK, LS1, Lab Sink
Sink bowl: By Others
Faucet: By Others
Drain: Chrome brass or SS, Perforated basket strainer, 1 1/4" tailpiece
Supplies: 3/8" chrome plated cast brass angle stop with wheel handle, metal stem, chrome plated flexible copper tube riser and chrome escutcheon.
Trap: semi-cast brass adjustable, polished chrome tube "P" trap and deep pattern escutcheon.

SINK, S1, Break Room
Dayton DSE23321 2 compartment SS sink, Moen 7425 faucet, single ADA lever, 8"spread SS crumb cup strainer/removable basket
Supplies: 3/8" chrome plated cast brass angle stop with wheel handle, metal stem, chrome plated flexible copper tube riser and chrome escutcheon.
Trap: semi-cast brass adjustable, polished chrome tube "P" trap and deep pattern escutcheon.

MB1
Mustee #63 floor mount, Chicago 897 faucet, Spout end VB
Trap, stops & supplies

AWC Washing Machine Box
Oaty 38542, PPP mini-restor shock stops

LT1
Mustee #17 floor mount, Chicago 895CP gooseneck faucet
Thermostatic mixer: Powers LFG480 ASSE 1070
Trap, stops & supplies

AWC Washing Machine Box
Oaty 38542

TESTS
Test sanitary drain, waste, vent and water piping as per State and Local Codes.

CODES
All plumbing work, materials, labor and installations shall conform to State and Local Codes.

FIRE RATED PENETRATIONS
All penetrations of fire resistive assembles shall conform to Comm. 84.12 and other applicable State and Local Codes.

In event a conflict of work responsibilities develop over installation requirements, the owner shall determine all work responsibilities for all contractors.

PIPE INSULATION
Insulate all above ground HW, CW & HWR water piping
Insulate all underground HW & HWR water piping
Use fiberglass insulation w/ASJ jacket above ground
Use Imcoa PE closed cell foam insulation for underground HW & HWR piping ground
CW – Thru 2"pipe 1" thick fiberglass insulation with ASJ jacket
HW – Thru 2" pipe 1" thick fiberglass
HWR – all sizes 1" thick fiberglass

EXCAVATION, BACKFILL, FILL REMOVAL AND COMPACTION
Excavate, backfill, and compact fill as required for installation of all underground plumbing piping, fixtures and equipment. Remove excess fill from site.

WALL PENETRATIONS
All holes or openings in new construction shall be saw cut or core drilled only, no breaking out or chopping will be allowed.

CLEANOUTS AND FLOOR DRAINS
Cleanouts – Sioux Chief Products, 4" 852-4-PTR4"
Floor Drains – Sioux Chief,
FD Finished areas -832 series with round NB top, finished areas
FD Mech areas-832 series with round CI top, mech areas
Wall COs to have SS cover plates.

RPBP
WATTS 009LF-QT, 3/4"with valves and strainer, OR EQUAL

CONSTRUCTION COORDINATION
In event a conflict of work responsibilities develop over installation requirements, the owner shall determine all work responsibilities for all contractors.

RUBISH/DEBRIS REMOVAL
Plumber shall remove all rubbish and debris from this work from job site.

VALVES
Ball Valves, Apollo 70LF-200 or equal.
Drain Valves, Apollo 70LF-200-HC

THERMOMETERS
9"tall with thermometer socket

PIPE INSTALLATION
All pipe shall have ends sealed at the end of every day.

UNIONS
Union fittings shall be used when connecting to all equipment.

PIPE HANGERS AND SUPPORTS
All piping and equipment shall be supported as state plumbing code.
Use metal loop hangers and threaded rod
Use Metal trapeze hangers for multiple pipe runs

PIPE LABELS
Use colors per Plumbing code
Painted stencils B/W or W/B, 1" high minimum every 30' and in each room
Label with pipe contents include flow arrows

WALL HYDRANTS
Woodford #67 with spout end VB

ICE MAKER BOX
Oaty wall box with 1/4 turn valve and shock stop

WATER HEATER
Bradford White 50 GALLON electric (verify voltage) with code approved P&T relief valve.

HWR circulating pump
B&G NBF-25, 3 speed circulator, lead free bronze

ROYAL CONSTRUCTION
3653 GREENWAY STREET
EAU CLAIRE, WI

FINAL REVIEW

11-08-18

TAILORED ENGINEERING
7 South Dewey St
Eau Claire, WI 54701
P:608.209.7500

PROJECT TITLE: SMILES IN MOTION 840 BEAR PAW AVE RICE LAKE, WI BARRON COUNTY	DRAWN BY: KH CHECKED BY: RN DRAWING FILE:
SHEET TITLE: WATER CALCULATIONS PLUMBING SPECIFICATIONS	DATE: 11-09-2018 SHEET NUMBER: P3

STRUCTURAL ABBREVIATIONS

ADD	ADDENDUM
ADDL	ADDITIONAL
ALT	ALTERNATE
ANCH	ANCHOR (ANCHORAGE)
ARCH	ARCHITECT, ARCHITECTURAL
@	AT
BSMT	BASEMENT
BM	BEAM
BRG	BEARING
BTWN	BETWEEN
BLK	BLOCK
BB	BOND BEAM
BOT,BO,B/	BOTTOM
BFE	BOTTOM FOOTING ELEVATION
BLKG	BLOCKING
BLDG	BUILDING
CANT	CANTILEVER
CIP	CAST IN PLACE
CLG	CEILING
CTR	CENTER
CL	CENTERLINE
CLR	CLEAR
COL	COLUMN
COMP	COMPOSITE
CONC	CONCRETE
CMU	CONCRETE MASONRY UNIT
CONN	CONNECTION(S)
CONST	CONSTRUCTION
CONST JT	CONSTRUCTION JOINT
CONT	CONTINUOUS
db	REINFORCING BAR DIAMETER
DBL	DOUBLE
DEFL	DEFLECTION
DEG	DEGREES
DL	DEAD LOAD
D, d	DEPTH
DET	DETAIL
DIAG	DIAGONAL
DIA	DIAMETER
DIM	DIMENSION
DWL(S)	DOWEL(S)
DN	DOWN
DWG	DRAWING
EA	EACH
EF	EACH FACE
ELEC	ELECTRICAL
ENGR	ENGINEER
EL	ELEVATION
ELEV	ELEVATOR
EOD	EDGE OF DECK
EOR	ENGINEER OF RECORD
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
ERECT	ERECTION
EW	EACH WAY
EXIST, (E)	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FD	FLOOR DRAIN
FDN/FND	FOUNDATION
FL/FLR	FLOOR
FRMG	FRAMING
FS	FAR SIDE
FT	FOOT (FEET)
FTG	FOOTING
GALV	GALVANIZED
GA	GAGE
GC	GENERAL CONTRACTOR
GB	GRADE BEAM
HD	HEADED
HDR	HEADER
HK	HOOK
HT	HEIGHT
HS	HIGH STRENGTH
HSS	HOLLOW STRUCTURAL TUBE
HORIZ	HORIZONTAL
ID	INSIDE DIAMETER
IF	INSIDE FACE
IN	INCH(S)
INFO	INFORMATION
INT	INTERIOR
JT OR JNT	JOINT
JST	JOIST
JBE	JOIST BEARING ELEVATION
JSD	JOIST SEAT DEPTH
K	KIP (1,000 POUNDS)
K/FT	KIPS PER FOOT
KLF	KIPS PER LINEAL FOOT
K/SF	KIPS PER SQUARE FOOT
L	ANGLE
LB	POUND
LG	LENGTH, LONG
LL	LIVE LOAD
LOC	LOCATION
LONG	LONGITUDINAL
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LWT	LIGHT WEIGHT
M	MOMENT
MAX	MAXIMUM
MCJ	MASONRY CONTROL JOINT
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTL	METAL
(N)	NEW
NO	NUMBER
NOM	NOMINAL
NS	NEAR SIDE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NWT	NORMAL WEIGHT
OC	ON CENTER
OPNG	OPENING
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
/	PER
PC	PRECAST
PERP	PERPENDICULAR
PL	PLATE
PROJ	PROJECTION
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POST-TENSIONED
PVC	POLYVINYL CHLORIDE
R	RADIUS
REF	REFERENCE
REINF	REINFORCEMENT
REQD	REQUIRED
REV	REVERSE/REVISION
RD	ROOF DRAIN
RO	ROUGH OPENING
SCHED	SCHEDULE
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SIP	STRUCTURAL INSULATED PANEL
SJI	STEEL JOIST INSTITUTE
SOG	SLAB ON GRADE
SPA	SPACES
SPEC	SPECIFICATIONS
SQ	SQUARE
STD	STANDARD
STL	STEEL
STIFF	STIFFENER
STIR	STIRRUPS
STRUCT	STRUCTURAL
TBE	TOP OF BEAM ELEVATION
TDE	TOP OF DECK ELEVATION
TEMP	TEMPORARY
TEMP STL	TEMPERATURE STEEL
TFE	TOP OF FOOTING ELEVATION
THK	THICK
T & B	TOP AND BOTTOM
TO, T/	TOP OF
TOS	TOP OF STEEL
TOSL	TOP OF SLAB
TRANSV	TRANSVERSE
TWE	TOP OF WALL ELEVATION
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VIF	VERIFY IN FIELD
W, w	WIDTH
W/	WITH
W/O	WITH OUT
WP	WORK POINT
WT	WEIGHT
WWF	WELDED WIRE FABRIC

TYPICAL MARKS

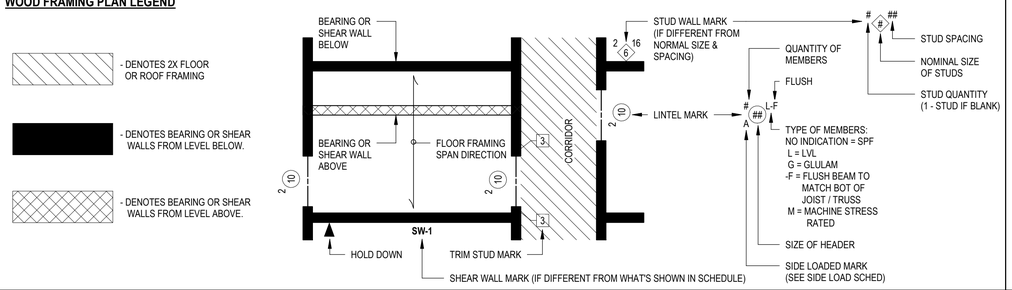
BP-	=	BASE PLATE
BRP-	=	BEARING PLATE
B0 OR B0-000	=	CONCRETE BEAM
CC-	=	CONCRETE COLUMN
CCB-	=	CONCRETE COUPLING BEAM
J0 OR J0-000	=	CONCRETE JOIST
CP-	=	CONCRETE PIER
DP-	=	DRILLED PIER
DPC-	=	DRILLED PIER CAP
EP-	=	EMBED PLATE
GB-	=	GRADE BEAM
F-	=	ISOLATED FOOTING
L-	=	LINTEL
MP-	=	MASONRY PIER
PF-	=	PILE FOUNDATIONS
PB-	=	POST-TENSION BEAM
PC-	=	PRECAST COLUMN
RWF-	=	RETAINING WALL FOOTING
SC-	=	STEEL COLUMN
SH-	=	STEEL HANGER
SP-	=	STEEL POST
WF-	=	WALL FOOTING

STRUCTURAL SHEET INDEX

- • INDICATES DRAWINGS THAT ARE BEING ISSUED.
- •S INDICATES DRAWINGS THAT ARE BEING ISSUED AND SIGNED FOR THE FIRST TIME.
- ▲ INDICATES DRAWINGS THAT HAVE BEEN ISSUED ON SMALL SHEETS OR WRITE UP.

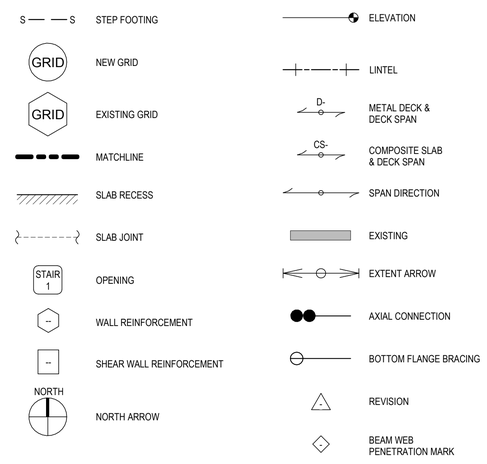
SHEET #	ISSUE: FOUNDATION PERMIT SET 10.05.18	ISSUE: CD ISSUE 11.08.18	ISSUE:	ISSUE:	ISSUE:	ISSUE:	ISSUE:	SHEET TITLE
S1.0		X						STRUCTURAL COVER SHEET
S1.1								GENERAL STRUCTURAL NOTES
S1.2								TYPICAL FOUNDATION, CONCRETE WALL SECTIONS AND DETAILS
S1.3								TYPICAL SLAB ON GRADE SECTIONS AND DETAILS
S1.4								TYPICAL FOUNDATION SCHEDULES
S1.5		X						TYPICAL FRAMING SCHEDULES AND DETAILS
S1.6		X						TYPICAL FRAMING DETAILS
S2.0		X						FOUNDATION PLAN
S2.1		X						ROOF FRAMING PLAN

WOOD FRAMING PLAN LEGEND

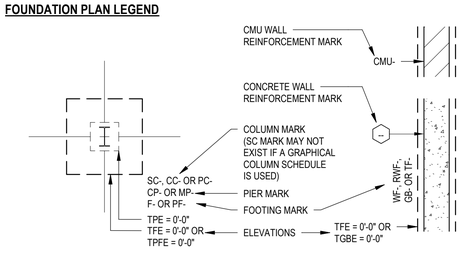


TYPICAL SYMBOLS

- FOR ADDL SYMBOLS SEE PLAN LEGENDS.



FOUNDATION PLAN LEGEND



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RIVER VALLEY ARCHITECTS, INC.

NEW BUILDING FOR:
SMILES IN MOTION
RICE LAKE, WI

WISCONSIN TERRANCE D. NUESSE 38260 EAU CLAIRE, WI PROFESSIONAL ENGINEER
11-8-18

DATE: 11.08.18	
MARK	DATE

SHEET NO.
S1.0

DRAWN BY: TDH

JOB NO. 18-702

C:_Revit_Local_ShortTermLocal\18-702_S18_ Smiles in Motion_Rice Lake_srobertson.rvtMyl

GENERAL STRUCTURAL NOTES

1. DESIGN CRITERIA:

1.1. BUILDING CODES USED FOR DESIGN:

1.1.1. IBC 2015 with Wisconsin amendments.

1.2. FUTURE CONSTRUCTION:

1.2.1. VERTICAL: None.

1.2.2. HORIZONTAL: None.

1.3. DESIGN LOADS:

1.3.1. DEAD AND SUPERIMPOSED DEAD LOADS:

Dead and Superimposed Dead Loads
at Roof Framing . . . . . 25 PSF

1.3.2. WIND LOAD:

Basic Wind Speed: . . . . . 115 MPH
Exposure Classification: . . . . . B

1.3.3. SNOW LOAD:

Ground Snow Load: . . . . . 60 PSF
Flat Roof Snow Load: . . . . . 46.2 PSF
Snow Exposure Factor: 1.0
Snow Load Importance Factor: . . . 1.0
Roof Thermal Factor: 1.1
Roof Slope Factor: 1.0

1.4. DEFLECTION AND DRIFT

1.4.1. Horizontal framing members are designed for deflections as tabulated. Deflections of horizontal to horizontal framing members are additive. Subcontractors shall make allowance for installation and operation of their systems to accommodate these deflections.

PREFABRICATED WOOD TRUSSES
Roof Live Load span/360
Roof Total Load span/240

2. DESIGN STRENGTHS:

2.1. CONCRETE:

2.1.1. All concrete shall be stone aggregate unless noted. See Specifications for additional durability requirements.

2.1.2. Minimum concrete 28-day compressive strength shall be as follows:

f'c (PSI)	Type	Add'l Remarks	Location
4000	NWT		Interior Slabs and Walls
4000	NWT, Air	Note 1	Exterior Slabs and Walls
3000	NWT		Footings

Note 1: Limit Water to Cement Ratio to 0.45

2.2. CONCRETE REINFORCEMENT:

Deformed Bars: FY = 60 KSI ASTM A615
Weldable Deformed Bars: FY = 60 KSI ASTM A706
Welded Wire Fabric: FY = 70 KSI ASTM A185

2.3. DIMENSIONAL LUMBER:

2.3.1. Structural Framing (beams, joists, studs, plates): Spruce-Pine-Fir #1/#2

Fb = 875 PSI
Fv = 135 PSI
Fc parallel = 1,150 PSI
E = 1,400 KSI

2.3.2. Wood Posts (5x5 and larger): Spruce-Pine-Fir #1 or better

Fb = 850 PSI
Fv = 125 PSI
Fc parallel = 700 PSI
E = 1,300 KSI

2.4. LAMINATED VENEER LUMBER (LVL): Grade 2.0 E

Fb = 2,950 PSI
Fv = 290 PSI
E = 2,000 KSI

3. FOUNDATIONS AND EARTHWORK:

3.1. SOILS AND FOUNDATION ENGINEERING REPORT:

3.1.1. Reference the project's geotechnical report prepared by PSI, number 0095500, dated 2-18-16, for additional information and requirements.

3.1.2. This report is for informational purposes only and shall not be considered part of the contract documents. Furthermore, no warranty is made by the owner with regard to the completeness and accuracy of the subsurface investigation data, soil test data, statements and interpretations given in the report.

3.2. GROUND WATER:

3.2.1. Water levels are subject to seasonal and/or annual variations. If necessary, a dewatering system of sufficient capacity shall be installed and operated to maintain the construction area free of water at all times.

3.3. EXCAVATIONS:

3.3.1. Should any questionable conditions be encountered during excavation, notify Owner's Representative immediately.

3.3.2. No engineered fill shall be placed until excavation bottoms have been inspected and approved by the Geotechnical Engineer.

WISCONSIN
TERRANCE D. NUESSE
35560
EAU CLAIRE, WI
PROFESSIONAL ENGINEER

3.3.2. No engineered fill shall be placed until excavation bottoms have been inspected and approved by the Geotechnical Engineer.

3.3.3. Water shall not be permitted to accumulate in footing excavations.

3.3.4. Provide a minimum of 6 inches of granular fill below all interior slabs-on-grade.

3.3.5. The slab-on-grade design is based on a modulus of subgrade reaction of 150 PCI.

3.4. FOOTINGS:

3.4.1. The foundation design is based on a total load net soil pressure of:
Spread Footings 3000 PSF
Wall Footings 3000 PSF

3.4.2. Foundations are assumed to be supported on native material or properly compacted structural fill. All footing excavations shall be inspected, prior to concrete placement, by the Geotechnical Engineer to verify suitable bearing material of capacity as specified.

3.4.3. Notify the Owner's representative when additional excavation is required to reach suitable bearing material.

3.4.4. Footing steps shall be located generally where indicated on the plan, and shall be installed as detailed.

3.4.5. Bottom of exterior building footings surrounding heated areas are to be at least 42 inches below final outside grade unless dimensioned otherwise. Bottom of exterior building footings at stoops or other unheated areas are to be at least 60 inches below final outside grade unless dimensioned otherwise.

3.4.6. All continuous footings shall be centered under walls unless dimensioned otherwise.

3.5. BACKFILLING:

3.5.1. No backfilling and compacting of earth shall be permitted against basement or other foundation walls until all slabs that support the wall against lateral earth pressure have been poured and have reached 75% of their design strength, or unless adequate bracing is provided. Bracing must be reviewed by the Engineer.

3.5.2. Material used for backfill shall be free draining engineered backfill unless noted otherwise. See the Geotechnical Report for additional information.

3.5.3. Both sides of foundation walls shall be backfilled simultaneously so as to prevent overturning or lateral movement of walls. All grade beams shall be adequately braced to prevent lateral movement during backfilling and compaction.

3.5.4. No fill or backfill shall be settled by the use of water.

3.6. FOUNDATION COMPLETION:

3.6.1. The Geotechnical Engineer shall certify in writing that all foundations were placed and completed as specified.

3.7. SHEET PILING AND EARTH RETENTION SYSTEMS:

3.7.1. Sheet piling and earth retention systems shall be designed by the Contractor. Design calculations and drawings shall be submitted for review for conformance to the drawings and construction sequences before installation. See Specifications.

4. CONCRETE:

4.1. REFERENCES:

ACI 315 ACI Detailing Manual
ACI 318 Building Code Requirements for Reinforced Concrete
CRSI MSP Manual of Standard Practice
AWS D1.4 Structural Welding Code - Reinforcing Steel
CRSI Recommended Practice for Placing Reinforcing Bars

4.2. REINFORCING STEEL:

4.2.1. The reinforcing steel Contractor shall fabricate all reinforcement and furnish all accessories, chairs, spacer bars and supports necessary to secure the reinforcement unless shown otherwise on the plans and/or details.

4.2.2. Concrete reinforcement shall be placed according to ACI and CRSI "Recommended Practice for Placing Reinforcing Bars".

4.2.3. Minimum Clear Cover For Concrete Reinforcement:

Footings . . . . . 2" Sides, 3" Bottom, 2" Top
Piers . . . . . 2" to Ties
Foundation Walls
Exterior Face . . . . . 2"
Interior Face . . . . . 2"
Slabs on Grade . . . . . Center of Slab

4.2.4. See typical detail for required bar development lengths and lap splice lengths.

4.2.5. All welded wire fabric shall have one full space plus 2" at splices and wire together.

4.2.6. Continuous top and bottom bars in walls, beams, and grade beams shall be spliced as follows:

1. Top bars - at mid-span
2. Bottom bars - over supports.

4.2.7. Slabs, beams and joists shall not have joints in a horizontal plane. Any stop in concrete work must be made at center of span or at center of support with vertical bulkheads and horizontal keys, unless otherwise shown. All construction joints shall be as detailed unless reviewed by Architect and Structural Engineer.

4.2.8. No welding of reinforcement shall be permitted unless specifically called for or reviewed by the Structural Engineer. Where welding is permitted, all welding of reinforcing bars shall conform to: "Structural Welding Code - Reinforcing Steel". A chemical analysis of the reinforcing bars to be welded shall be submitted for review.

4.2.9. All reinforcement in columns, slabs, and beams exposed to weather and/or corrosive environments shall be epoxy coated. This includes parking, pool areas, and balconies. Beam bottom bars and column vertical bars do not require epoxy coating.

4.3. ANCHORING TO CONCRETE

4.3.1. Headed studs shall be Nelson H4L or S3L with Fu = 65 ksi, or approved equal, unless noted otherwise.

4.3.2. Deformed bar anchors shall be Nelson D2L with FY = 70 ksi or approved equal, unless noted otherwise.

4.3.3. Post-installed anchors shall be installed by qualified personnel in accordance with the Manufacturer's Printed Installation Instructions.

4.3.4. Expansion anchors shall not be loaded until concrete has achieved a minimum age of 7 days. Adhesive anchors shall not be loaded until concrete achieved a minimum age of 21 days.

4.3.5. Expansion anchors shall be Hilti Kwik Bolt TZ or approved equal, unless noted otherwise. Embedment shall be as follows unless noted otherwise:

Diameter	Embedment	Diameter	Embedment
3/8"	2"	5/8"	4"
1/2"	3 1/4"	3/4"	4 3/4"

4.3.6. Adhesive anchors shall be Hilti HIT-RE 500 V3 or HIT-HY 200 with HAS Standard rods or approved equal, unless noted otherwise. Embedment shall be as follows unless noted otherwise:

Diameter	Embedment	Diameter	Embedment
3/8"	3 3/8"	5/8"	5 5/8"
1/2"	4 1/2"	3/4"	6 3/4"

4.3.7. Epoxy for dowels drilled into concrete shall be Hilti HIT-RE 500 V3, HIT-HY 200, or approved equal, unless noted otherwise. Embedment shall be as follows unless noted otherwise:

Bar	Embedment	Bar	Embedment
# 3	3 1/4"	# 5	5 3/4"
# 4	4 3/8"	# 6	6"

4.3.8. Anchor capacity is dependent upon spacing between adjacent anchors and proximity of anchors to edge of concrete. Install anchors in accordance with spacing and edge clearances indicated on the drawings.

5. STRUCTURAL WOOD:

5.1. REFERENCES:

IBC 2015
NFPA National Design Specification for Wood Construction
NFPA Design Values for Wood Construction

5.2. DIMENSION LUMBER:

5.2.1. All member sizes given on plan are nominal dimensions.

5.2.2. Spacing of bridging for floor and roof joists shall not exceed 8' or 6 times the nominal joist depth (whichever is greater).

5.2.3. Wood lintels shall bear the full length on all trim studs, columns, posts or other supporting members indicated on plan.

5.2.4. All beams and joists not bearing on supporting members shall be framed with "Simpson" joist hangers or equal. Use Type LUSXX for single 2x's and Type LUSXX-2 for double 2x's.

5.2.5. All nailing shall be in accordance with IBC Table No. 2304.10.1 unless noted otherwise.

5.2.6. Roof and ceiling joists are shown as a general layout only. Consider joist spacing shown as the maximum spacing with incidental framing, bracing and blocking added as needed for standard wood frame construction.

5.3. PREFABRICATED ROOF TRUSSES:

5.3.1. Trusses shall be designed to meet all loading and spans as indicated on the plans. Design trusses for concentrated loads and cantilevers as indicated on architectural and structural plans.

5.3.2. Typical Roof Truss Design Loads:

Top Chord Live Load . . . . See DESIGN LIVE LOADS and SNOW LOADS above
Top Chord Dead Load . . . . 15 psf
Bottom Chord Dead Load . . 10 psf

5.3.3. Trusses shall be designed and fabricated in accordance with the latest edition of ANSI/TPI 1.

5.3.4. The prefabricated wood truss fabricator is responsible for the design of the trusses, truss connections, etc. Trusses shall be designed and certified by a professional engineer registered in the State where the project is located.

5.3.5. Truss supplier shall furnish all necessary blocking, bracing and connection material to provide a completed installation. This information shall be clearly shown on erection plan.

5.3.6. Contractor shall be responsible for bracing and/or bridging required during construction.

5.3.7. Permanent bracing required by the truss supplier for web members shall be designed and provided by the truss supplier.

5.3.8. Permanent lateral restraint and diagonal bracing shall be installed in accordance with the Structural Building Components Association (SBCA)BCSI B3: "Permanent Restraint / Bracing of Chords and Web Members".

5.3.9. All lumber used in the fabrication of trusses shall be stress graded. Connector plates shall be made of Grade "A" galvanized steel, minimum 20 gage, per TIP Specification.

5.4. LAMINATED VENEER LUMBER:

5.4.1. Laminated Veneer Lumber (indicated LVL on plans) to be supplied and manufactured according to the specification of the Truss Joist Corporation. See Section 1 of these notes for material strength information.

6. MISCELLANEOUS:

6.1. DEFERRED STRUCTURAL SUBMITTALS

6.1.1. The design and documentation of some components defined using performance-based specifications may be deferred until after a building permit is obtained.

6.1.2. Deferred submittals include, but are not limited to, the items listed below.

6.1.3. For the following deferred submittals, the Contractor shall submit shop drawings and calculations signed and stamped by a professional engineer registered in the state where components are installed. These shall be submitted for review prior to fabrication.

Wood Truss Systems

6.1.4. For the following deferred submittals, the Contractor shall submit shop drawings for review prior to fabrication.

Supports for Other Tenant Equipment

6.2. CONSTRUCTION JOINTS:

6.2.1. The Contractor shall submit drawings showing the proposed construction and control joints for all areas. This includes walls, structural floor systems, slabs on grade, etc. This drawing shall be reviewed by the Architect /Engineer and returned to the Contractor prior to pouring any concrete. The construction joint drawing shall be furnished to the fabricators before their shop drawings are submitted.

6.2.2. If the construction joints are changed after being reviewed, revised drawings shall be submitted for review.

6.2.3. Construction joints shall be made as detailed on the drawings.

6.2.4. Construction joints and control joints in concrete foundation walls shall be located at a maximum of 40 foot center spacing.

6.3. ANCHOR RODS:

6.3.1. All anchor rods for mechanical and electrical equipment shall be furnished and located by the respective Subcontractors and set by the General Contractor except where the other Subcontractors furnish their own concrete pads.

6.4. NON LOAD BEARING PARTITION WALLS:

6.4.1. Non load bearing partition walls are generally not shown on the structural drawings. Care shall be taken by the Contractor to maintain a deflection space between the top of partition walls and floor or roof structure above.

6.4.2. See Typical Details and deflection requirements of horizontal framing members in Section 1 of these Notes for minimum deflection space between top of non load bearing partition walls and overhead structure.

6.5. VERIFICATIONS:

6.5.1. The General Contractor shall verify all openings sizes, pad sizes, and locations with the respective Subcontractors.

6.6. CORE DRILLING:

6.6.1. All core drilling shall be done by the Mechanical and Electrical Subcontractors for their own work under the supervision of the General Contractor. No reinforcing steel shall be cut. Verify location of reinforcing steel before core drilling. Do not core through beams or columns. The maximum core hole through slabs shall be 12". If these requirements cannot be met, contact the Engineer.

6.7. GENERAL:

6.7.1. These drawings do not include necessary components for construction safety.

6.7.2. The structural design is based only on the building in its completed state. Contractors and their subs shall take whatever precautions are necessary to withstand all horizontal and vertical loadings that may be encountered during the construction prior to completion of the building.

6.7.3. During construction, the Contractor may encounter existing conditions which are not now known or are at variance with project documentation (Discovery). Such conditions may interfere with new construction or required protection and/or support of existing Work during construction, or may consist of damage or deterioration to structural materials or components which could jeopardize the structural integrity of the building(s).

6.7.4. The Contractor shall notify the Engineer of all Discoveries that the Contractor believes may interfere with proper execution of the Work or jeopardize the structural integrity of the building(s) prior to proceeding with Work related to such Discoveries.

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RIVER VALLEY ARCHITECTS, INC.

NEW BUILDING FOR:
SMILES IN MOTION
RICE LAKE, WI

DATE: 10.05.18	
MARK	DATE

SHEET NO.
S1.1

DRAWN BY: TDH

JOB NO. 18-702

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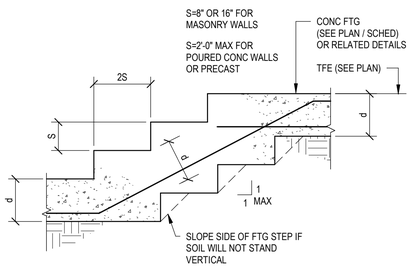
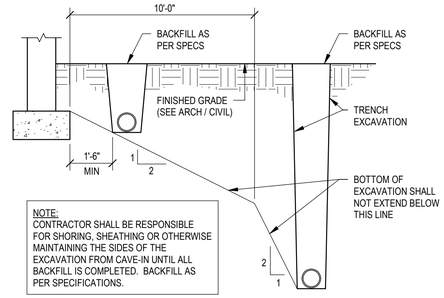
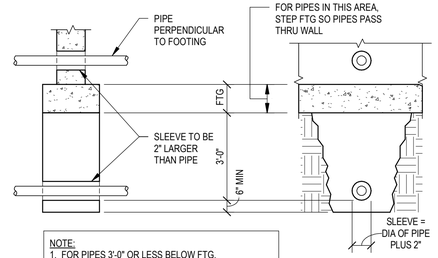


1 S1.2 STEPPED FOOTING DETAIL
NO SCALE



NOTE:
CONTRACTOR SHALL BE RESPONSIBLE FOR SHORING, SHEATHING OR OTHERWISE MAINTAINING THE SIDES OF THE EXCAVATION FROM CAVE-IN UNTIL ALL BACKFILL IS COMPLETED. BACKFILL AS PER SPECIFICATIONS.

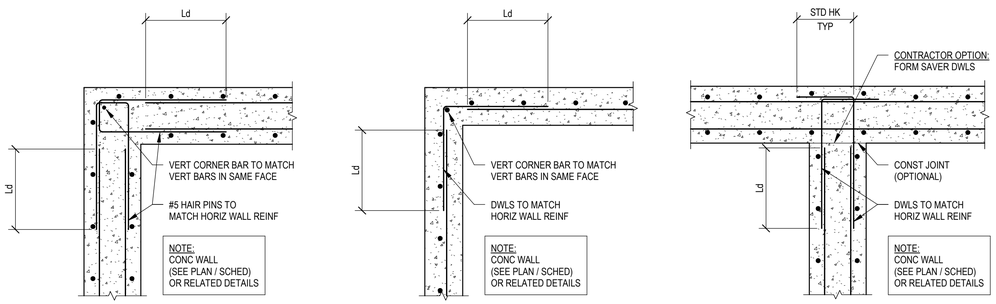
2 S1.2 UTILITIES PARALLEL TO FOOTINGS DETAIL
NO SCALE



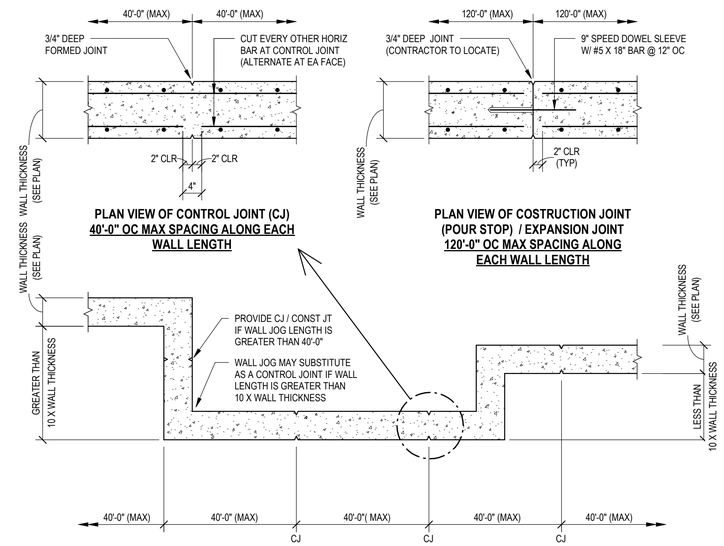
NOTE:
1. FOR PIPES 3'-0" OR LESS BELOW FTG, PROVIDE SLEEVE AND CONCRETE AS SHOWN.

2. FOR PIPES MORE THAT 3'-0" BELOW FTG, USE STEPPED FTG DETAIL TO GET WITHIN 3'-0" MAX.
CONTRACTOR'S OPTION:
OMIT STEPPED FOOTING AND CONCRETE BELOW AND PROVIDE PROPERLY COMPACTED SOIL BETWEEN BOTTOM OF FOOTING TO 6" MIN BELOW PIPE SLEEVE.

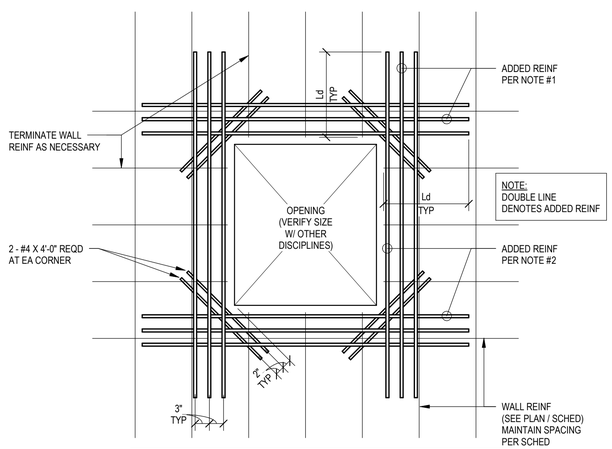
3 S1.2 PIPES PERPENDICULAR TO FOOTINGS DETAIL
NO SCALE



4 S1.2 CONCRETE - REINFORCING AT WALL INTERSECTIONS
NO SCALE



5 S1.2 CONCRETE WALL - PLAN VIEW OF CONSTRUCTION / CONTROL JOINT
NO SCALE



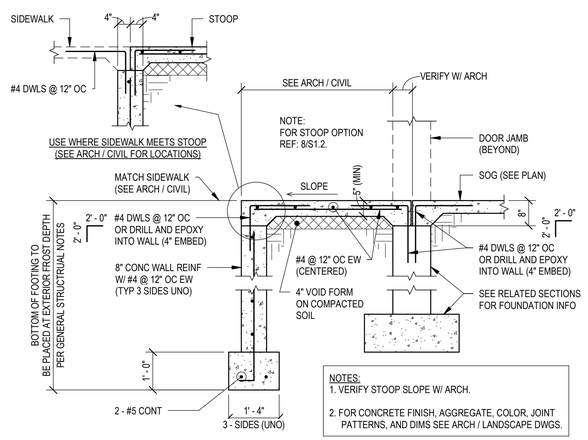
NOTES:

1. ALL BARS INTERRUPTED BY THE OPENING SHALL BE REPLACED WITH ADDITIONAL REINFORCEMENT TO MATCH THE BARS THAT ARE INTERRUPTED. PLACE HALF OF THE ADDITIONAL REINFORCEMENT ON EACH SIDE OF OPENING. IF AN ODD NUMBER OF BARS ARE INTERRUPTED ROUND UP A BAR TO HAVE EQUAL ADDITIONAL BARS ON ALL SIDES.

2. PROVIDE ONE ADDITIONAL BAR TO MATCH WALL REINFORCEMENT ON ALL SIDES OF THE OPENING IN ADDITION TO THE INTERRUPTED BARS.

3. AT OPENINGS LESS THAN 12", REINFORCEMENT AS DETAILED MAY BE ADJUSTED TO BOTH SIDES OF OPENING.

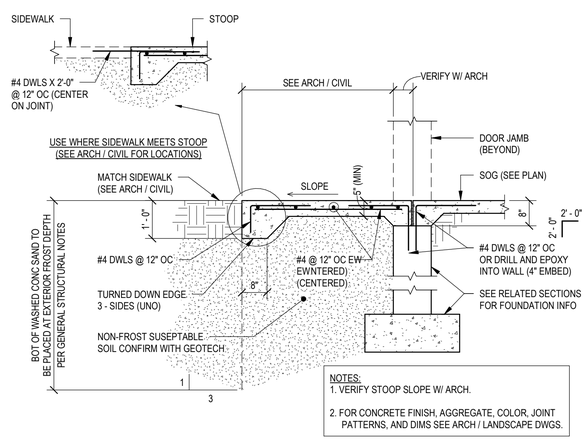
6 S1.2 CONCRETE - ADDL REINF AT WALL OPENINGS
3/4" = 1'-0"



NOTES:
1. VERIFY STOOP SLOPE W/ ARCH.

2. FOR CONCRETE FINISH, AGGREGATE, COLOR, JOINT PATTERNS, AND DIMS SEE ARCH / LANDSCAPE DWGS.

7 S1.2 CONCRETE - STOOP
NO SCALE



NOTES:
1. VERIFY STOOP SLOPE W/ ARCH.

2. FOR CONCRETE FINISH, AGGREGATE, COLOR, JOINT PATTERNS, AND DIMS SEE ARCH / LANDSCAPE DWGS.

8 S1.2 CONCRETE - STOOP (CONTRACTORS OPTION)
NO SCALE

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NEW BUILDING FOR:
SMILES IN MOTION
RICE LAKE, WI

DATE: 10.05.18

MARK	DATE

SHEET NO.
S1.2

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JOB NO. 18-702

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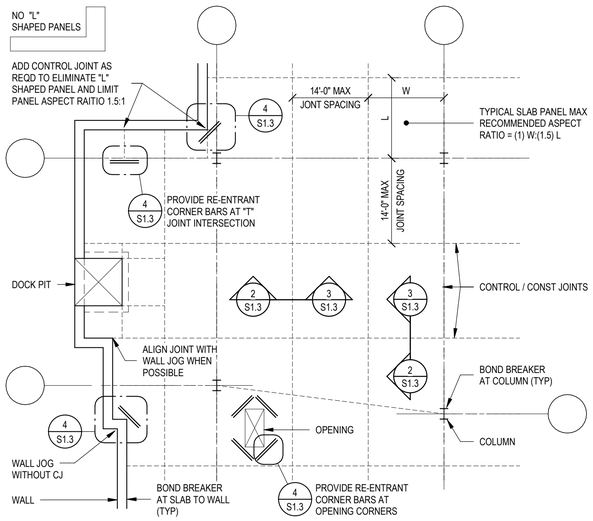
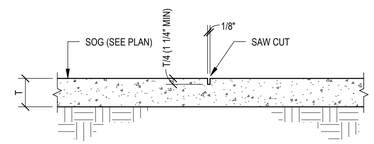


SLAB ON GRADE JOINTING AND ADDITIONAL REINFORCEMENT NOTES

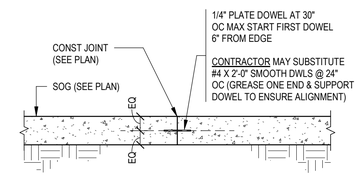
1. MAX CONTROL JOINT SPACING TO BE 14'-0" OC EACH WAY. — ***DELETE AFTER JOINT SPACING IS REVIEWED***
2. CONTRACTOR TO SUBMIT SLAB ON GRADE JOINT PLAN THREE WEEKS PRIOR TO SLAB POUR.
3. LIMIT SLAB PANEL ASPECT RATIO TO 1.5:1.
4. MINIMIZE "L" SHAPED PANELS WHEN AT ALL POSSIBLE OR PROVIDE ADDITIONAL JOINTING OR RE-ENTRANT CORNER BARS.
5. WHENEVER POSSIBLE LOCATE JOINTS UNDER WALL AND FIXTURES.
6. SAW CUTTING SHALL BE DONE AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY TO PERMIT CUTTING WITHOUT CHIPPING, SPALLING OR TEARING BUT NOT MORE THAN 12 HOURS AFTER POURING.

1 / S1.3 SOG - JOINTING AND ADDITIONAL REINFORCEMENT REQUIREMENTS
NO SCALE

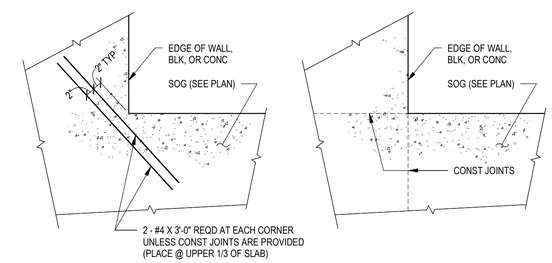
NOTE:
SAW CUTTING SHALL BE DONE AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY TO PERMIT CUTTING WITHOUT CHIPPING, SPALLING OR TEARING BUT NOT MORE THAN 12 HOURS AFTER POURING



2 / S1.3 SOG - CONTROL JOINT
NO SCALE

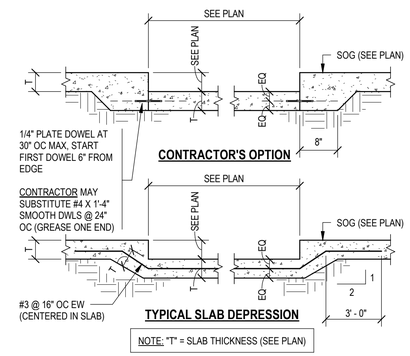


3 / S1.3 SOG - CONSTRUCTION JOINT
NO SCALE

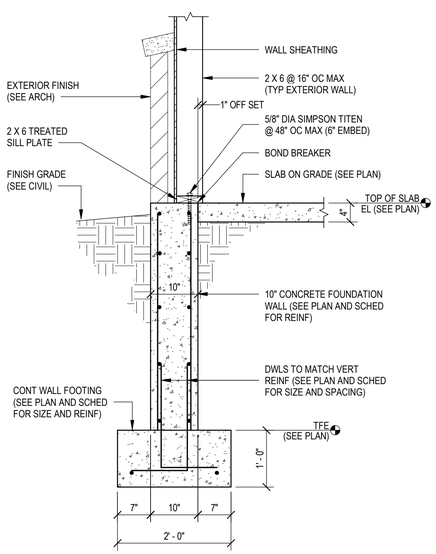


RE-ENTRANT CORNERS W/O CONST JOINTS **RE-ENTRANT CORNERS W/ CONST JOINTS**

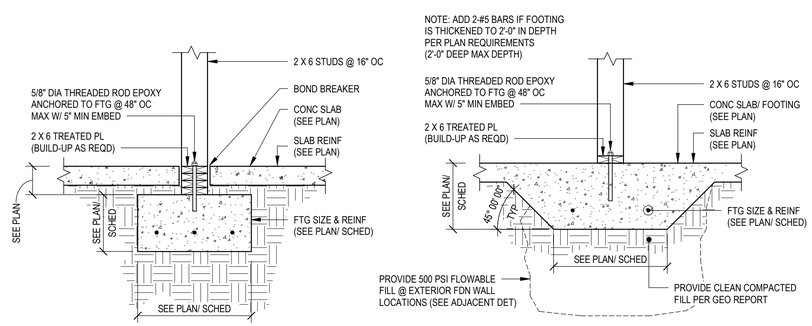
4 / S1.3 SOG - RE-ENTRANT CORNERS
NO SCALE



5 / S1.3 SOG - RECESS / DEPRESSION
NO SCALE

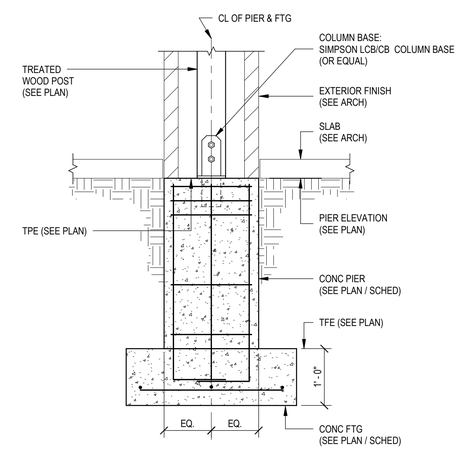


6 / S1.3 TYPICAL EXTERIOR WALL FOUNDATION SECTION
3/4" = 1'-0"



CONTRACTOR OPTION @ INTERIOR BEARING WALL

7 / S1.3 TYPICAL EXTERIOR WALL FOUNDATION SECTION
3/4" = 1'-0"



8 / S1.3 FOOTING & PIER WITH WOOD POST SECTION
3/4" = 1'-0"

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NEW BUILDING FOR:
SMILES IN MOTION
RICE LAKE, WI

DATE: 10.05.18	
MARK	DATE

SHEET NO.
S1.3

DRAWN BY: TDH

JOB NO. 18-702

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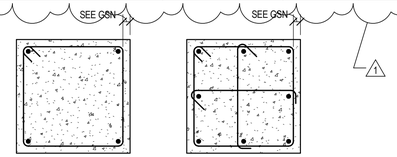
CONCRETE PIER SCHEDULE

MARK	SIZE WIDTH	SIZE LENGTH	REINFORCEMENT VERTICAL	REINFORCEMENT TIES	TYPE	COMMENTS
CP18	1' - 6"	1' - 6"	4 - #8	#3 @ 12" OC MAX	4S	
CP24	2' - 0"	2' - 0"	8 - #8	#3 @ 12" OC MAX	8S	



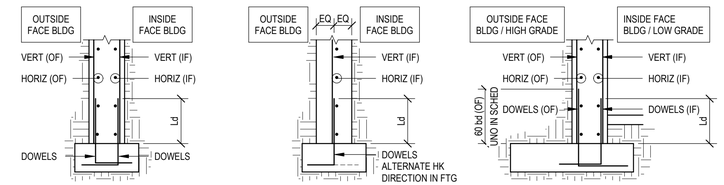
4S 8S

NOTES:
1. AT TOP OF PIER PROVIDE 3 - ADDITIONAL TIES AT 4" OC AROUND ANCHOR BOLTS UNO.
2. STANDARD HOOK ON VERTICAL REINFORCEMENT INTO FOOTING, DOWELS NOT REQUIRED UNO.

#00600A

WALL REINFORCING SCHEDULE

MARK	TYPE	VERTICAL REINFORCING INSIDE FACE (IF)	VERTICAL REINFORCING OUTSIDE FACE (OF)	HORIZONTAL REINFORCING INSIDE FACE (IF)	HORIZONTAL REINFORCING OUTSIDE FACE (OF)	DOWELS	COMMENTS
A	1	#5 @ 12" OC MAX	#5 @ 12" OC MAX	#5 @ 12" OC MAX	#5 @ 12" OC MAX	MATCH VERTS	
B							



TYPE 1 TYPE 2 TYPE 3

NOTES:
1. SEE PLANS / DETAILS / GENERAL NOTES FOR ADDITIONAL WALL REINFORCEMENT REQUIREMENTS.
2. SEE PLANS AND RELATED DETAILS FOR ALL EXTERIOR RETAINING WALL INFORMATION.
3. TYPES INDICATED ABOVE ONLY DEPICT THE STANDARD WALL REINFORCEMENT LAYOUT / ACTUAL FOUNDATION WALL CONDITIONS AND DETAILS ARE AS NOTED ON PLAN AND REFERENCED DETAILS.

#00600D

COLUMN FOOTING SCHEDULE

MARK	SIZE LENGTH	SIZE WIDTH	SIZE THICKNESS	REINFORCEMENT	COMMENTS
F4-0	4' - 0"	4' - 0"	1' - 0"	5 - #5 EACH WAY BOTTOMCH	
F4-6	4' - 6"	4' - 6"	1' - 0"	6 - #5 EACH WAY BOTTOMCH	

WALL FOOTING SCHEDULE

MARK	SIZE WIDTH	SIZE THICKNESS	REINFORCEMENT	COMMENTS
WF1-4	1' - 4"	1' - 0"	2 - #5 CONT BOTTOM	
WF2-0	2' - 0"	1' - 0"	2 - #5 CONT BOTTOM	

CONCRETE REINFORCEMENT DEVELOPMENT LENGTHS & LAP SPLICE LENGTHS

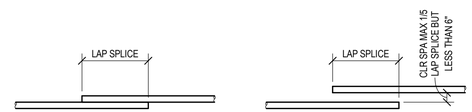
BAR SIZE	f'c ≥ 3,000 PSI		f'c ≥ 4,000 PSI		f'c ≥ 5,000 PSI		f'c ≥ 6,000 PSI		f'c ≥ 7,000 PSI		f'c ≥ 8,000 PSI		f'c ≥ 9,000 PSI		f'c ≥ 10,000 PSI		f'c = ALL
	Ld	Ls	Ld	Ls	Ld	Ls	Ld	Ls	Ld	Ls	Ld	Ls	Ld	Ls	Ld	Ls	Lc
#3	17"	22"	15"	20"	13"	17"	12"	16"	12"	16"	12"	16"	12"	16"	12"	16"	12"
#4	22"	29"	19"	25"	17"	22"	16"	21"	15"	20"	14"	18"	13"	17"	12"	16"	15"
#5	28"	36"	24"	31"	22"	29"	20"	26"	18"	23"	17"	22"	16"	21"	15"	20"	19"
#6	33"	43"	29"	38"	26"	34"	24"	31"	22"	29"	21"	27"	19"	25"	18"	23"	23"
#7	48"	62"	42"	55"	38"	49"	34"	44"	32"	42"	30"	39"	28"	36"	27"	35"	27"
#8	55"	72"	48"	62"	43"	56"	39"	51"	36"	47"	34"	44"	32"	42"	30"	39"	30"
#9	62"	81"	54"	70"	48"	62"	44"	57"	41"	53"	38"	49"	36"	47"	34"	44"	34"
#10	70"	91"	61"	79"	54"	70"	50"	65"	46"	60"	43"	56"	41"	53"	39"	51"	39"
#11	78"	101"	61"	87"	60"	78"	55"	72"	51"	66"	48"	62"	54"	59"	43"	56"	43"

NOTES

Ld = CLASS 'A' LAP SPLICE / DEVELOPMENT LENGTH
Ls = CLASS 'B' LAP SPLICE
Lc = COMPRESSION LAP SPLICE
db = BAR DIAMETER

1. WHERE SPLICES ARE NOT CALLED OUT ON THE DRAWINGS, PROVIDE CLASS B LAP SPLICE (Ls)
2. FOR LIGHT WEIGHT CONCRETE, MULTIPLY LENGTHS BY 1.3.
3. FOR EPOXY BARS, MULTIPLY LENGTHS BY 1.5.
4. FOR HORIZONTAL BARS WITH 12" OF FRESHLY PLACED CONCRETE BELOW, MULTIPLY LENGTHS BY 1.3.
5. WHERE NOTE 3 AND NOTE 4 BOTH APPLY, MULTIPLY LENGTHS BY 1.7.
6. MECHANICAL SPLICES WITH 125% OF BAR YIELD STRENGTH MAY BE USED IN LIEU OF LAPS.

DETAILS



CONTACT LAP SPLICE (PREFERRED) NON-CONTACT LAP SPLICE

#00600F

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NEW BUILDING FOR:
SMILES IN MOTION
RICE LAKE, WI

MARK	DATE
	DATE: 10.05.18
1	10.17.18

SHEET NO.
S1.4
DRAWN BY: TDH
JOB NO. 18-702

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WOOD SHEAR WALL TYPE SCHEDULE

MARK	WALL DESCRIPTION	FASTENING PATTERN: FASTENER SIZE	SPACING: EDGE	SPACING: FIELD	FASTENER LENGTH PENETRATION DEPTH	BLOCKED	5/8" DIA ANCHOR BOLT SPACING	SILL PLATE CONNECTION THROUGH FLOOR SHEATHING	COMMENTS	HOLDDOWN/ STRAP
SW-1	1 - LAYER 1/2" OSB PLYWOOD EXTERIOR SIDE	10d	6" OC	12" OC	1 1/2" PENETRATION INTO STUD (MIN)	YES	48" OC	(6) 16d NAILS PER STUD SPACE	TYPICAL EXTERIOR WALL UNO	-
SW-2	1 - LAYER 1/2" OSB PLYWOOD EXTERIOR SIDE	10d	4" OC	12" OC	1 1/2" PENETRATION INTO STUD (MIN)	YES	32" OC	(6) 16d NAILS PER STUD SPACE	SEE PLAN FOR LOCATION	HDU-8 W/ (7/8") ∅ ANCHOR 4 1/2" MIN WOOD MEMBER THICKNESS
SW-3	1 - LAYER 1/2" OSB PLYWOOD BOTH SIDES	10d	6" OC	12" OC	1 1/2" PENETRATION INTO STUD (MIN)	YES	24" OC	(9) 16d NAILS PER STUD SPACE	SEE PLAN FOR LOCATION	HDU-14 W/ (1") ∅ ANCHOR 4 X 6 MIN WOOD MEMBER THICKNESS

NOTES - GENERAL:
1. SHEATHING SHOWN IS FOR SHEAR STRENGTH OF WALLS ONLY. ADDITIONAL LAYERS OF MATERIAL MAY BE REQUIRED FOR SOUND, FIRE RATING, WEATHER RESISTANCE OR OTHER ARCHITECTURAL REASONS. SEE ARCHITECTURAL WALL TYPES FOR ADDITIONAL INFORMATION.
2. ANY SHEATHING LAYERS APPLIED OUTSIDE OF RESILIENT CHANNEL DO NOT COUNT TOWARD MEETING THE REQUIREMENTS OF THIS SCHEDULE.
3. AT DOUBLE WALL LOCATIONS, THE DESIGNATION APPLIES TO EACH WALL WITHIN THE UNIT SEPARATION WALL ASSEMBLY.
4. ALL WALLS ABOVE ARE TYPICAL UNO ON PLAN.

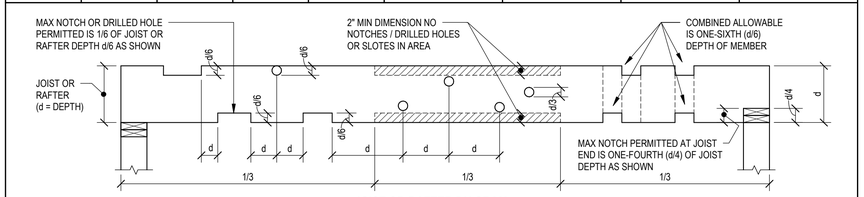
NOTES - GYP PANEL SHEAR WALLS:
1. WHERE BLOCKED WALLS ARE NOTED, BLOCKING SHALL BE 2" NOMINAL OR GREATER. ALL JOINTS IN SHEATHING SHALL OCCUR OVER AND BE FASTENED TO COMMON FRAMING MEMBERS OR COMMON BLOCKING.
2. 6D COOLER NAILS SHALL HAVE A DIAMETER OF 0.092", BE 1 7/8" LONG AND HAVE A 1/4" HEAD. ALTERNATE FASTENERS: WALLBOARD NAIL - 0.0915" DIAMETER X 1 7/8" LONG WITH 19/64" HEAD; 0.120 NAIL X 1 3/4" LONG WITH 3/8" HEAD.
3. 8D COOLER NAILS SHALL HAVE A DIAMETER OF 0.113", BE 2 3/8" LONG AND HAVE A 0.281" HEAD. ALTERNATE FASTENERS: WALLBOARD NAIL - 0.113" DIAMETER X 2 3/8" LONG WITH 3/8" HEAD; 0.120 NAIL X 2 3/8" LONG WITH 3/8" HEAD.
4. #6 SCREWS, WHERE NOTED ABOVE IN THE FASTENER SIZE COLUMN, SHALL BE TYPE S OR W DRYWALL SCREWS AND SHALL CONFORM TO ASTM C 1002.

NOTES - WOOD PANEL SHEAR WALLS:
1. PANELS SHALL NOT BE LESS THAN 4'X 8' EXCEPT AT BOUNDARIES AND CHANGES IN FRAMING.
2. NAILS SHALL BE LOCATED AT LEAST 3/8" FROM THE PANEL EDGES. MAX NAIL SPACING AT PANEL EDGES SHALL BE 6" O.C.
3. ALL WOOD PANEL SHEAR WALLS ARE TO BE BLOCKED. ALL EDGES AND/OR JOINTS OF ALL PANELS SHALL BE SUPPORTED BY AND FASTENED TO COMMON FRAMING MEMBERS OR 2X NOMINAL (MIN) BLOCKING EXCEPT AS NOTED BELOW.
4. PROVIDE 3X NOMINAL WIDTH OF FRAMING MEMBERS OR BLOCKING AT LOCATIONS OF ADJOINING PANEL EDGES FOR SHEAR WALLS WITH NAILING AT 2" O.C.
5. WHERE WOOD PANELS ARE APPLIED ON BOTH FACES OF A SINGLE WALL AND NAIL SPACING IS LESS THAN 6" ON CENTER ON EITHER SIDE, EITHER PANEL JOINTS SHALL BE OFFSET TO FALL ON DIFFERENT FRAMING MEMBERS OR THE WIDTH OF THE NAILED FACE OF THE FRAMING MEMBERS SHALL BE 3" NOMINAL MINIMUM AND NAILING AT ADJOINING PANEL EDGES SHALL BE STAGGERED.
6. WOOD STRUCTURAL PANELS SHALL CONFORM TO THE REQUIREMENTS FOR ITS TYPE IN DOC PS1 OR PS2.

#10002

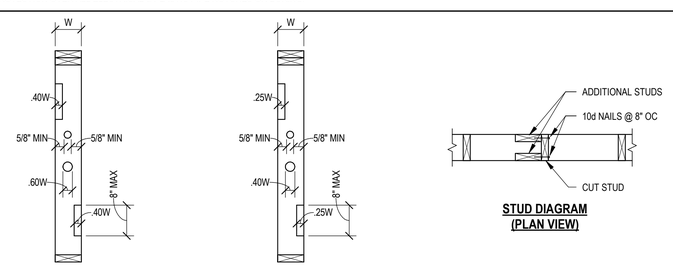
WOOD ALLOWABLE NOTCH & BORED HOLE DIMENSIONS

JOIST & RAFTERS: NOMINAL	ACTUAL	d/6	d/4	d/3	BEARING STUDS: .25W	.40W	NON-BEARING STUDS: .40W	.60W
4"	3 1/2"	5/8"	7/8"	1 1/8"	7/8"	1 3/8"	1 3/8"	2 1/8"
6"	5 1/2"	7/8"	1 3/8"	1 7/8"	1 3/8"	2 1/4"	2 1/4"	3 1/4"
8"	7 1/4"	1 1/4"	1 7/8"	2 3/8"	1 7/8"	2 7/8"	2 7/8"	4 3/8"
10"	9 1/4"	1 1/2"	2 3/8"	3 1/8"	N/A	N/A	N/A	N/A
12"	11 1/4"	1 7/8"	2 7/8"	3 3/4"	N/A	N/A	N/A	N/A
14"	13 1/4"	2 1/4"	3 3/8"	4 3/8"	N/A	N/A	N/A	N/A



JOIST OR RAFTER DIAGRAM (ELEVATION VIEW)

NOTES:
1. HOLES / NOTCHES / SLOTS ARE NOT TO BE LOCATED ADJACENT TO UNSOUND OR LOOSE KNOTS.
2. NOT TO BE USED AT MICRO LAM, PSL, GLULAM BEAMS OR ANY OTHER MANUFACTURED PRODUCTS.
3. PREFERRED LOCATION OF NOTCH IS AT TOP OF MEMBER.
4. INSTALL PLATE PROTECTION OVER ALL ELECTRICAL & PLASTIC PIPE NOTCHES OR BORING.



NON-BEARING STUDS DIAGRAM (SECTION VIEW)

BEARING STUDS DIAGRAM (SECTION VIEW)

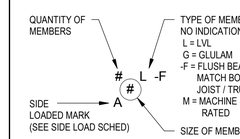
STUD DIAGRAM (PLAN VIEW)

NOTES:
1. HOLES UP TO 60% ARE ALLOWED IN BEARING WALLS AT DOUBLE STUD CONDITIONS PROVIDED NOT MORE THAN TWO SUCCESSIVE DOUBLE STUDS ARE SO BORED.
2. AT BEARING AND NON-BEARING WALL LOCATIONS WHERE THE HOLE SIZE THROUGH THE STUDS EXCEEDS THE ABOVE ALLOWABLE LIMITS (40% AND 60% RESPECTIVELY) PROVIDE TWO ADDITIONAL STUDS PERPENDICULAR TO CUT STUD, SEE STUD DIAGRAM (PLAN VIEW) ABOVE.

#10004

WOOD BEAM / HEADER SCHEDULE

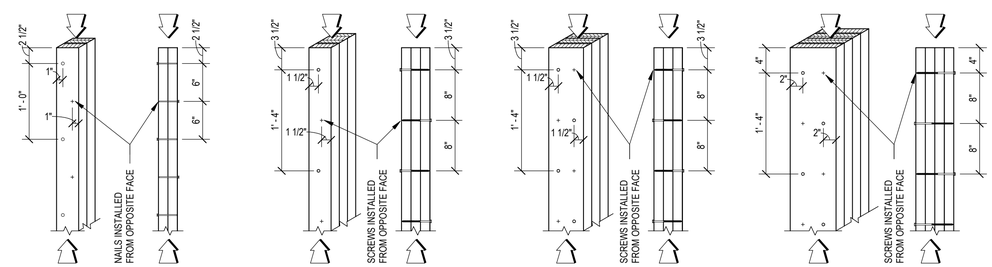
MARK	SIZE	COMMENTS	MARK	SIZE	COMMENTS
2 (6)	2 - 2 X 6	-	2 (8) L	2 - 1 3/4 X 7 1/4 LVL	-
2 (8)	2 - 2 X 8	-	3 (8) L	3 - 1 3/4 X 7 1/4 LVL	-
3 (8)	3 - 2 X 8	-	2 (10) L	2 - 1 3/4 X 9 1/4 LVL	-
2 (10)	2 - 2 X 10	-	3 (10) L	3 - 1 3/4 X 9 1/4 LVL	-
3 (10)	3 - 2 X 10	-	4 (10) L	4 - 1 3/4 X 9 1/4 LVL	-
2 (12)	2 - 2 X 12	-	2 (12) L	2 - 1 3/4 X 11 7/8 LVL	-
3 (12)	3 - 2 X 12	-	3 (12) L	3 - 1 3/4 X 11 7/8 LVL	-
			4 (12) L	4 - 1 3/4 X 11 7/8 LVL	-
			2 (14) L	2 - 1 3/4 X 14 LVL	-
			3 (14) L	3 - 1 3/4 X 14 LVL	-
			4 (14) L	4 - 1 3/4 X 14 LVL	-
			2 (16) L	2 - 1 3/4 X 16 LVL	-
			3 (16) L	3 - 1 3/4 X 16 LVL	-
			4 (16) L	4 - 1 3/4 X 16 LVL	-
			2 (18) L	2 - 1 3/4 X 18 LVL	-
			3 (18) L	3 - 1 3/4 X 18 LVL	-
			4 (18) L	4 - 1 3/4 X 18 LVL	-
			4 (20) L	4 - 1 3/4 X 20 LVL	-
			3 (10) M	3 - 1 3/4 X 9 1/4 MSR	



WOOD BEAM / HEADER KEY

TRIM STUD / POST TAG NOT COVERED BY NOTE 1

NOTES:
1. AT ALL LOCATIONS NOT INDICATED ON PLAN OR PER NOTE 2, PROVIDE 2 - 2X TRIM STUDS AND 1 - 2X KING STUD.
2. AT EXTERIOR WALL OPENINGS PROVIDE THE FOLLOWING KING STUDS:
   - OPNGS 4'-0" OR LESS = 1 - 2X KING STUD
   - OPNGS GREATER THAN 4'-0" TO 8'-0" = 2 - 2X KING STUDS
   - OPNGS GREATER THAN 8'-0" TO 12'-0" = 3 - 2X KING STUDS
   - OPNGS GREATER THAN 12'-0" =NOTIFY ENGINEER OF RECORD



TWO 2" X 4" LAMINATIONS WITH ONE ROW OF STAGGERED 10d COMMON WIRE NAILS (D = 0.148", L = 3")

THREE 2" X 4" LAMINATIONS WITH ONE ROW OF STAGGERED SIMPSON SDW SCREWS (L = 4 3/8")

THREE 2" X 6" LAMINATIONS WITH TWO ROWS OF STAGGERED SIMPSON SDW SCREWS (L = 4 3/8")

FOUR 2" X 6" OR FOUR 2" X 8" LAMINATIONS (SOFTWOODS) WITH TWO ROWS OF STAGGERED SIMPSON SDW SCREWS (L = 6")

1 / S1.5 WOOD - STUD PACK NAILING REQUIREMENTS
NO SCALE

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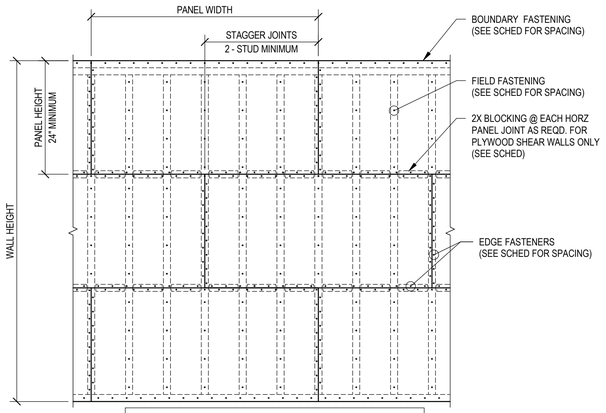
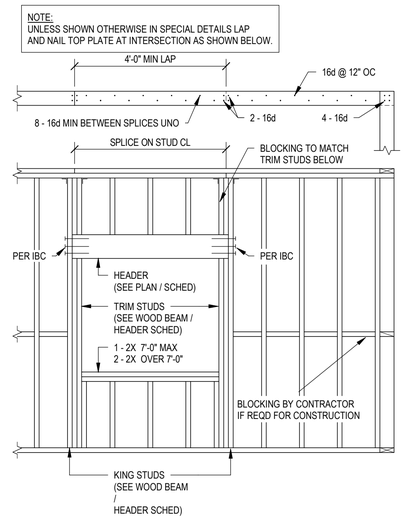
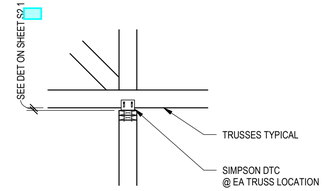


NOTES:
1. SEE SCHEDULE FOR SHEAR WALL NAILING INSTRUCTIONS.
2. MATERIAL SHALL BE PLACED ON OUTSIDE FACE OF WALL OR AS INDICATED IN SCHEDULE.
3. FASTENERS SEE SHEAR WALL SCHEDULES.
4. 5/8" GYP SHEATHING (UNLESS NOTED OTHERWISE).
5. FASTENING PATTERN IS FOR FIRST LAYER OF GYP OR PLYWOOD SHEATHING ON TWO LAYER SYSTEMS.

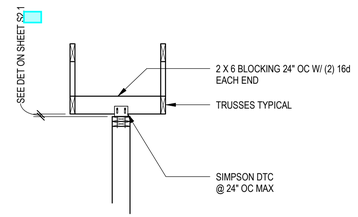
1 / S1.6 TYPICAL EXTERIOR WALL FOUNDATION SECTION
3/4" = 1'-0"



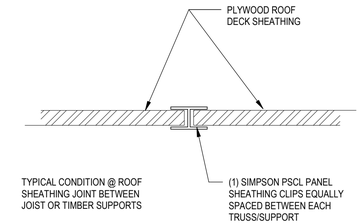
2 / S1.6 STUD WALL FRAMING AT OPENING
1/4" = 1'-0"



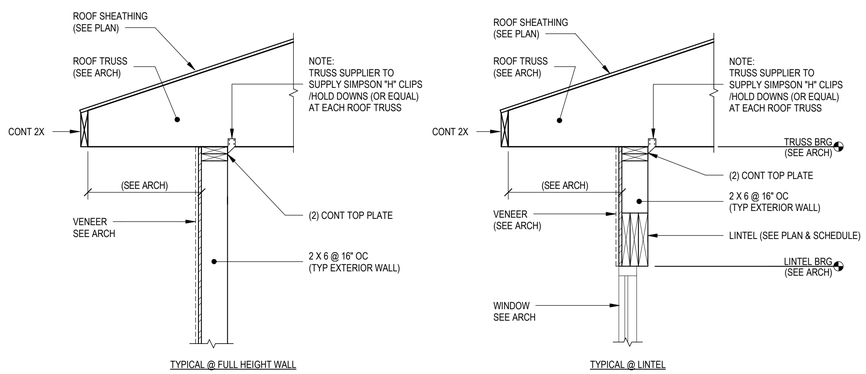
5 / S1.6 NON-LOAD BEARING WALL DETAIL
3/4" = 1'-0"



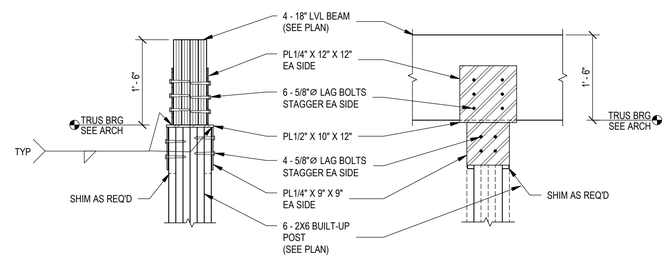
4 / S1.6 NON-LOAD BEARING WALL DETAIL
3/4" = 1'-0"



3 / S1.6 ROOF SHEATHING SIDELAP CONN DETAIL
1" = 1'-0"



6 / S1.6 TYPICAL ROOF TRUSS BEARING DETAIL
3/4" = 1'-0"



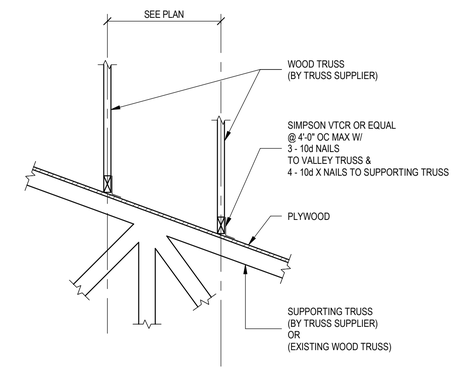
SECTION VIEW **SIDE VIEW**

NOTE:

1.)TRUSSES NOT SHOWN FOR CLAIRITY

2.)PROVIDE 1/4" TOLERANCE

7 / S1.6 FRAMING SECTION
3/4" = 1'-0"



8 / S1.6 TYPICAL ROOF FRAMING DETAIL @ STACKED TRUSS
3/4" = 1'-0"

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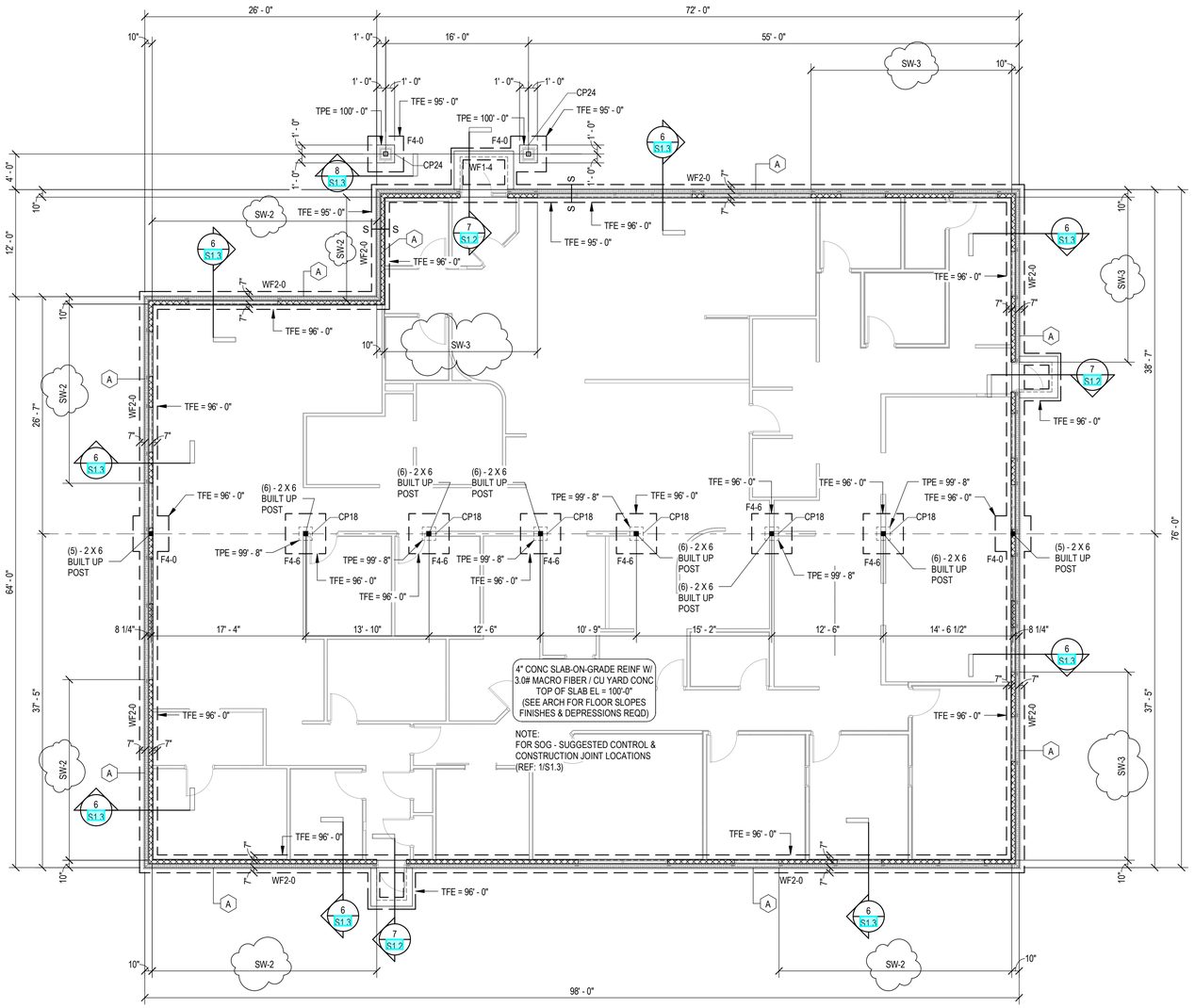

1 S2.0 FOUNDATION PLAN
1/8" = 1'-0"
NORTH

FOUNDATION PLAN SHEET NOTES

A. General

1. See Cover Sheet for structural sheet index defining sheet name, sheet number and issue status.
2. See Cover Sheet for Structural Abbreviations, Typical Marks & Symbols and Plan Legends.
3. Review General Structural Notes and typical details in conjunction with applicable plans. See sheet index on Cover Sheet.
4. Coordinate stoop sizes and locations with Architectural and Civil. See typical details for stoop construction.
5. If present, coordinate the sizes and locations of tunnels, electrical cells, pits, pipes, floor drains, trenches and floor recesses with Architectural, Structural, Mechanical, Civil, and Electrical drawings.
6. Frost protection is required for all foundations if winter conditions are present.

B. Footings

1. "F-" denotes footing mark. See schedule for size and reinforcing.

   "WF-" denotes wall footing mark See schedule for size and reinforcing.
2. Top of footing elevation (TFE) is shown on plan. See typical detail sheets for stepped footing detail.
3. Locations of footing steps on plan are approximate. Contractor shall verify all step locations with Civil grade elevations to maintain minimum frost depths and all Mechanical, Electrical and Plumbing pipe elevations prior to pouring footings. Coordinate footing step locations with precaster if applicable. See typical detail sheets for pipes perpendicular and parallel to footing.
4. All footings shall be centered below walls, columns and piers unless dimensioned otherwise.
5. Provide dowels to walls, columns and piers above. Hooked dowels shall be tied to footing reinforcing prior to pouring concrete.

C. Concrete Piers

1. "CP-" denotes concrete pier mark. See pier schedule for size and reinforcing.
2. Top of pier elevation (TPE =) is shown on plan.
3. All concrete piers shall be centered on grid intersections unless dimensioned otherwise on plan.

D. Slab On Grade

1. Top of slab elevation (TOSL =) is shown on plan.
2. See Architectural drawings for depressions, slab slopes, finishes and drains.
3. Concrete slab thickness shall be as noted on plan. See Architectural drawings for vapor barrier requirements and geotech report for slab sub-base thickness and material specification.
4. Unless noted otherwise, reinforce slab with 3.0 pounds of macro fiber per cubic yard of concrete. Coordinate finishing requirements with owner. Contractor may substitute 6 x 6 - W1.4 x W1.4 WWF chaired in place 1" below top of slab in lieu of macro fiber.
5. Provide control joints(CJ) and construction joints (CONST JT) in slab. See typical foundation details.
6. Concrete Contractor shall submit location of slab control joints (CJ) and construction joints (CONST JT) for review three weeks minimum prior to slab pour.

E. Concrete Walls

1. See wall schedule for reinforcing. Provide additional reinforcing per typical details.
2. See typical details for concrete wall construction joint spacing requirements.
3. See shear wall elevation sheets and details for reinforcing required.
4. Coordinate all exterior wall finish ledge elevations for brick, stone, etc. with architectural drawings.

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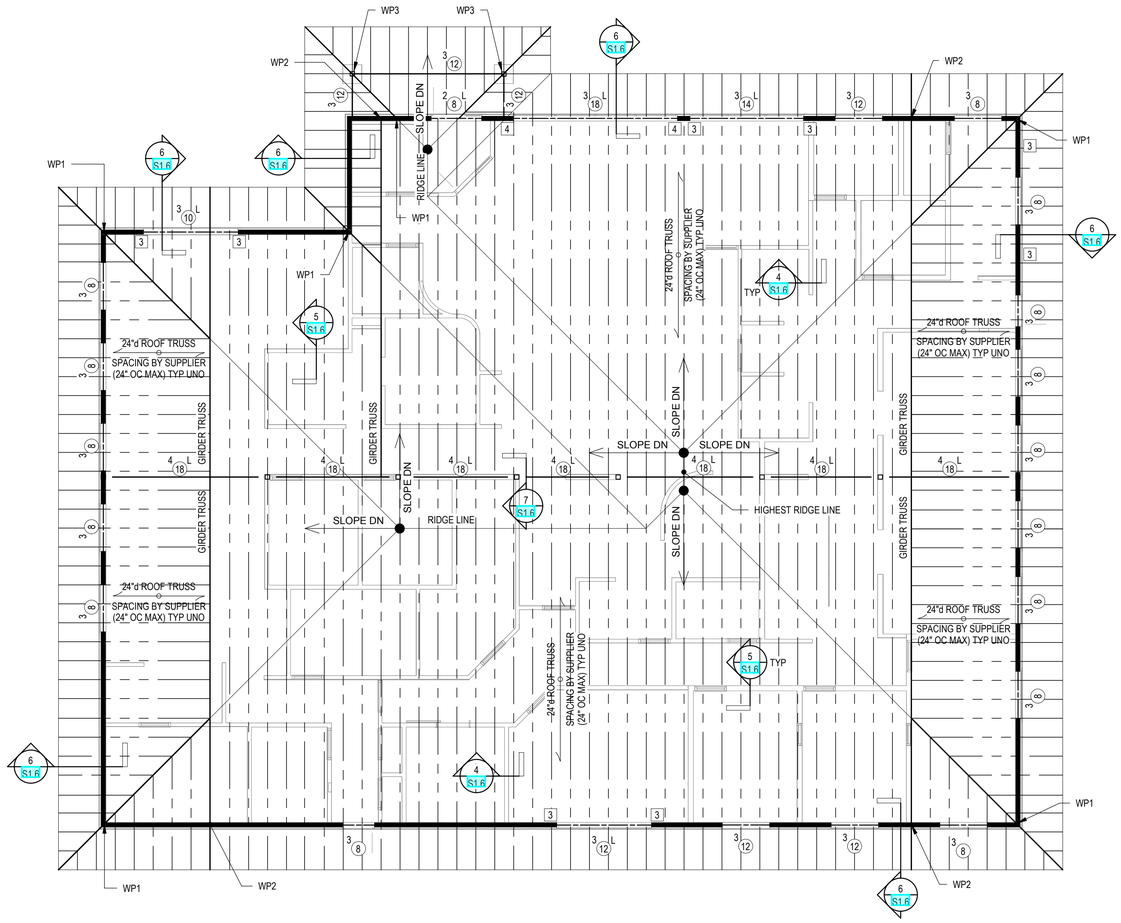


1 S2.1 ROOF FRAMING PLAN
1/8" = 1'-0"

WOOD POST SCHEDULE				
MARK	POST SIZE	BASE PLATE	ANCHOR BOLT	COMMENTS
WP1	2 - 2X6			
WP2	3 - 2X6			
WP3	6X6 TIMBER			

NOTES:
1.VERIFY ALL DIMENSION AND ELEVATION WITH ARCH PRIOR TO CONSTRUCTION
2.WOOD AND TRUSS SUPPLIER TO SELECT CONNECTION HARDWARE SIMPSON OR EQUAL. EOR TO REVIEW DURING SHOP SUBMITTAL PHASE.
3.TRUSS BRG EL= 110' 4 1/2" (ARCH VERIFY)

FRAMING PLAN SHEET NOTES

A. General

1. See Cover Sheet for structural sheet index defining sheet name, sheet number and issue status.
2. See Cover Sheet for Structural Abbreviations, Typical Marks & Symbols and Plan Legends.
3. Review General Structural Notes and typical details in conjunction with applicable plans. See sheet index on Cover Sheet.
4. If present, coordinate the sizes and locations of tunnels, electrical cells, pits, pipes, floor drains, trenches and floor recesses with Architectural, Structural, Mechanical, Civil, and Electrical drawings.
5. Contractor shall coordinate all embedded items required for precast connections. Embedded items to be provided by precast supplier and installed by concrete contractor.

B. Lintels

1. See lintel schedule for lintel types and notes.

C. Prefabricated Wood Trusses

1. See Architectural for truss bearing elevations.
2. Prefabricated wood trusses shall be designed to resist all loads indicated on plans, notes and details. Supplier shall submit calculations signed and stamped by a registered engineer in the state of the project for review and approval prior to fabrication. See General Structural Notes and specifications for other requirements.
3. Truss spacing by truss supplier. Spacing not to exceed 24" oc max.

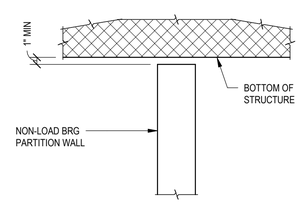
D. Plywood Diaphragms

1. See Architectural for top of sheathing elevations.
2. Roof sheathing shall be 5/8" APA rated plywood / OSB. Attach sheathing to roof framing members with 10d nails (0.128" diameter x 3" long) at 6" OC at panel edges and 12" OC at intermediate supports.
3. All diaphragm nailing shall be done with common nails and shall be driven flush but not fracture the surface of the sheathing. Box or sinker nails must be approved prior to use.
4. As an alternate to hand nailing the contractor shall submit for approval the size and type of nail used for automatic nailing with the approved technical data for its use in nailing horizontal diaphragms.

E. Wood framed Construction

1. See General Structural Notes for additional wood construction information.
2. See schedules for load bearing walls, shear walls, beam / header information, etc.
3. All bottom plates or other wood in contact with precast, concrete or masonry shall be treated.
4. Anchors, hangers and other metal connectors in contact with pressure treated lumber shall be hot dipped galvanized, G185 treated or approved for use with pressure treated lumber by EOR.
5. Provide a minimum of 2 studs (3" length of bearing) at all beam, header and girder truss bearing unless noted otherwise on plan. Full width of beam, header and girder truss must be supported by an equal width of 2X or PSL post. Where posts / stud packs consisting of 3 or more studs occur on a level, identical posts / stud packs shall be constructed on all floors below to final supporting level unless noted otherwise on plan. Solid blocking shall be placed in floor framing space between upper and lower post / stud packs.
6. All wood beams connected to 4 x 4 posts or larger to use Simpson PC/EPC caps or equivalent unless noted otherwise.
7. Mechanical and electrical contractors to design their systems to accommodate 3/8" vertical shrinkage of the structure per floor, from lowest floor to roof.

TYPICAL NON-LOAD BEARING WALLS AT STRUCTURE ABOVE



NOTES:
1. VERTICAL SLIP CONNECTION IS REQUIRED AT ALL NON-LOAD BEARING WALLS SHOWN OR NOT SHOWN ON STRUCTURAL PLANS
SO WALLS DO NOT RECEIVE LOADS FROM THE STRUCTURAL ELEMENTS ABOVE AND BECOME BEARING.

2. SEE ARCHITECTURAL DRAWINGS FOR NON-LOAD BEARING WALL LOCATIONS

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