# **ARCHITECT:**

# DESTREE DESIGN ARCHITECTS, INC.

222 WEST WASHINGTON AVE. SUITE 310 MADISON, WI 53703 PH: 608.268.1499 **CONTACT: TYLER SMITH** 

# **MEP ENGINEER:**

# HEIN ENGINEERING GROUP

319 WEST BELTLINE HWY #111 MADISON, WI 53713 PH: 608.288.9260 **CONTACT: MIKE HEIN** 

# STRUCTURAL ENGINEER:

MP-SQUARED STRUCTURAL ENGINEERS, LLC.

583 D'ONOFRIO DRIVE #201 MADISON, WI 53719 PH: 608.821.4774 **CONTACT: MARK LINDLOFF** 

# OLBRICH GARDENS

# RESTROOM ADDITION DECEMBER 12, 2012 3330 ATWOOD AVENUE

MADISON, WI

# **DEFINITIONS:**

ABOVE FINISHED FLOOR

**SYMBOL LEGEND:** 

TYPE CALLOUT

**DETAIL CALLOUT** 

**KEYNOTE CALLOUT** 

WINDOW CALLOUT

**DEMO WALL** 

**DEMO DOOR** 

**NEW DOOR** 

1 KEY PLAN

PLAN NORTH

**XTG WALL** 

**DETAIL AND WALL PARTITION** 

INTERIOR ELEVATION CALLOUT

**ELEV - ELEVATION EACH WAY** 

FURNISHIED BY OWNER INSTALLED BY OWNER

**GENERAL CONTRACTOR** GYPSUM WALL BOARD

HEIGHT

**HOLLOW METAL** 

MECHANICAL, ELECTRICAL, PLUMBING

NOT TO SCALE PLAM - PLASTIC LAMINATE

PAINT REQUIRED TYPICAL

WOOD EXISTING

# **GENERAL NOTES:**

FIELD VERIFY ALL DIMENSIONS, CONSULT ARCHITECT W/ INCONSISTENCIES.

CONTRACTOR TO COMPLY WITH ALL APPLICABLE BUILDING CODES.

DIMENSIONS ARE FROM EDGE OF STUD TO EDGE OF STUD, EXISTING PARTITION DIMENSIONS ARE FROM GWB WALL FINISH TO EDGE OF NEW STUD.

CONTRACTOR TO PREP AND LEVEL ALL FLOORS FOR 1/8" TOLERANCE.

# **ELECTRICAL/DATA NOTES:**

SCHEDULE PRELIMINARY WALK-THRU W/ OWNER & ARCHITECT PRIOR TO INSTALL.

- CONTRACTOR TO COORDINATE SUBMITTAL OF ALL NECESSARY DRAWINGS AND CALCULATIONS FOR APPROVAL.
- SEE REFLECTED CEILING PLAN FOR LAYOUT PURPOSES. ENGINEERING OF LIGHTING, SWITCHING AND CIRCUITS BY ELECTRICIAN.
- ELECTRICIAN TO PROVIDE, LOCATE AND INSTALL EMERGENCY EGRESS LIGHTING AND EXIT SIGNS AS REQUIRED BY FIRE MARSHALL, VERIFY LOCATIONS W/ ARCHITECT PRIOR TO INSTALL.
- COORDINATE POWER REQUIREMENTS WITH OWNER & ARCHITECT.
- LIGHTING FIXTURES TO BE BUILDING STANDARDS, OR AS NOTED ON LIGHT FIXTURE SCHEDULE.

# **HVAC NOTES:**

- CONTRACTOR TO COORDINATE SUBMITTAL OF ALL NECESSARY DRAWINGS AND CALCULATIONS FOR APPROVAL.
- 2. HVAC CONTRACTOR TO MODIFY EXISTING CONDITIONS AS REQUIRED PER DRAWINGS AND BUILDING STANDARDS.

# FIRE ALARM NOTES:

- CONTRACTOR TO COORDINATE SUBMITTAL OF ALL NECESSARY DRAWINGS AND CALCULATIONS FOR APPROVAL.
- 2. VERIFY WALL LOCATIONS OF ALL STROBE AND HORN LOCATIONS W/ ARCHITECT PRIOR TO INSTALLATION.

# **PLUMBING NOTES:**

- CONTRACTOR TO COORDINATE SUBMITTAL OF ALL NECESSARY DRAWINGS AND CALCULATIONS FOR APPROVAL.
- CONTRACTOR TO MODIFY EXISTING CONDITIONS AS REQUIRED PER DRAWINGS AND BUILDING STANDARDS.

# **CODE SUMMARY:**

PROJECT DESCRIPTION: LEVEL-2 ALTERATION OF XTG CORRIDOR, & ADA TOILET ROOM ADDITION.

OCCUPANCY: A-3 CONSTRUCTION TYPE: IIB- UNSPRINKLERED

STORIES:1 FLOORS:

# **SQUARE FOOTAGES**

BUILDING FOOTPRINT = 40,514 SF ALTERATION AREA = 401 SF ADDITION FOOTPRINT = 585 SF

# **SHEET INDEX:**

# TITLE

# **ARCHITECTURAL**

DEMOLITION PLAN A000

FLOOR PLAN, CEILING PLAN, ROOF PLAN

**EXTERIOR ELEVATIONS INTERIOR ELEVATIONS** 

DETAILS

**SCHEDULES** A900

SCHEDULES, ROOM FINISH PLAN

# STRUCTURAL

**NOTES** 

FOUNDATION PLAN, ROOF FRAMING PLAN

S601 **DETAILS** S701 **DETAILS SCHEDULES** 

# **MECHANICAL**

**DETAILS** 

DEMO PLAN, NEW DUCTWORK PLAN RADIANT FLOOR PLAN, PIPING PLAN DETAILS, SCHEDULES

# **ELECTRICAL**

DEMO PLAN, LIGHTING PLAN, POWER PLAN **SCHEDULES** 

# **PLUMBING**

UNDERGROUND PLUMBING PLAN PLUMBING PLAN

# RISER DIAGRAMS, SCHEUDLES

SHEET:

ISSUANCES:

PROJECT:

DATE:

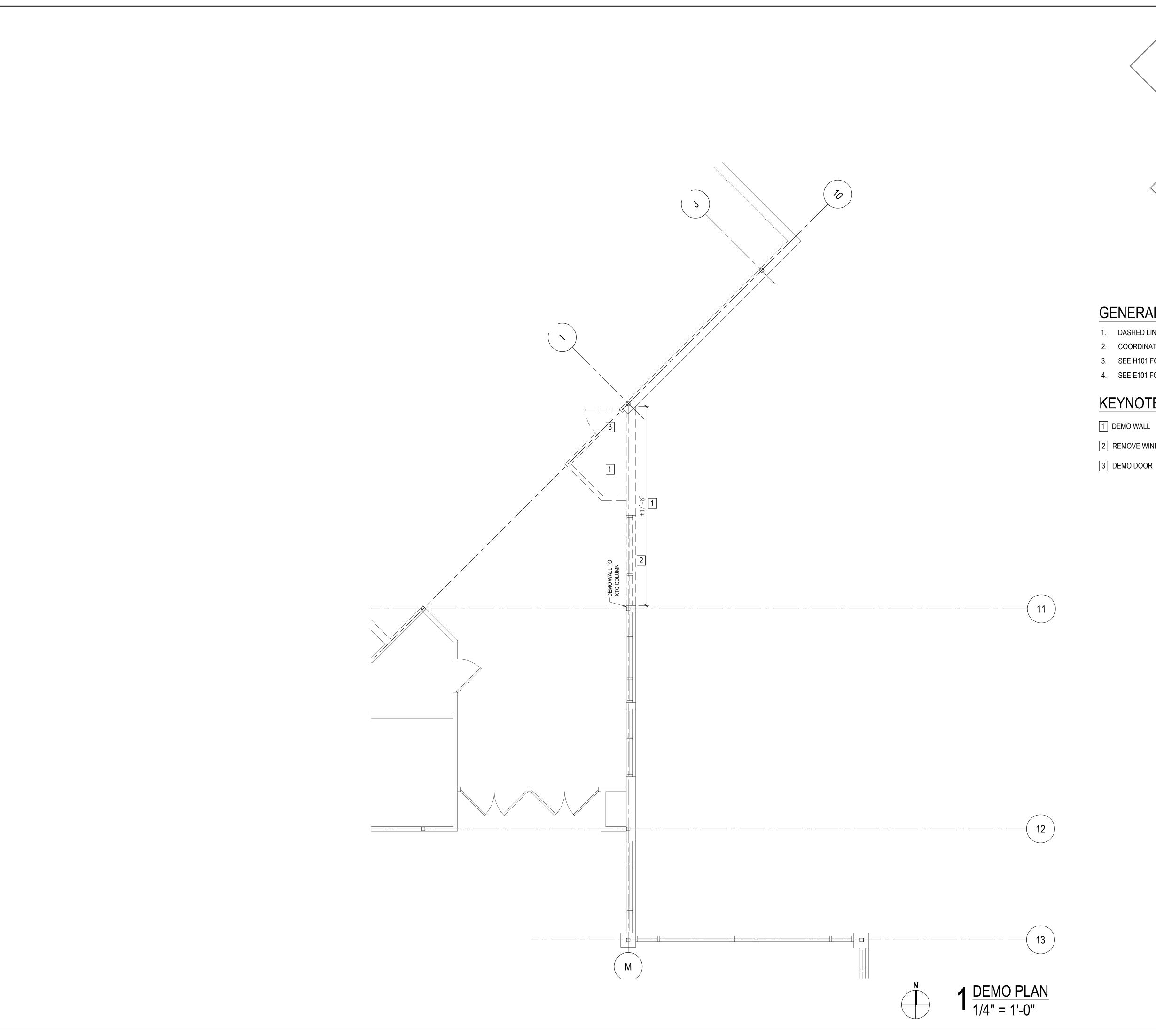
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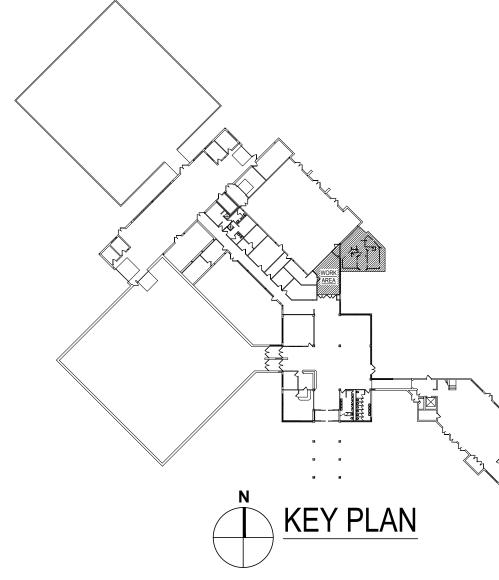
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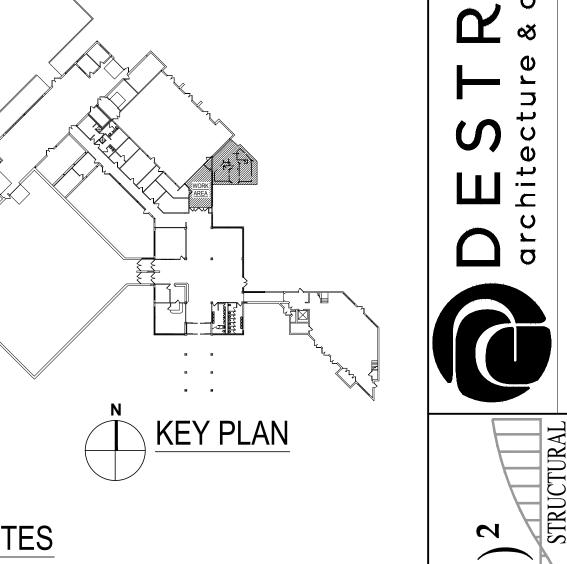


# GENERAL NOTES

- 1. DASHED LINES DENOTE DEMOLITION
- 2. COORDINATE SALVAGE OF ALL DEMO'D MATERIALS WITH OWNER.
- 3. SEE H101 FOR HVAC DEMO.
- 4. SEE E101 FOR ELECTRICAL DEMO.

# **KEYNOTES**

2 REMOVE WINDOW TO BE RELOCATED.



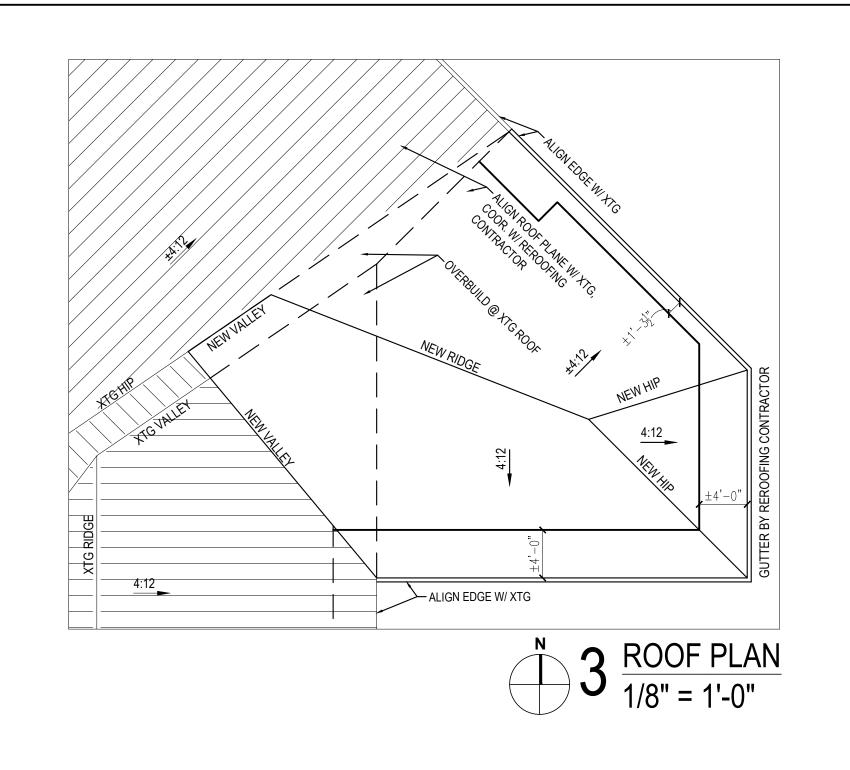
**HEIN** Engineering Group

ISSUANCES:

12.21.12

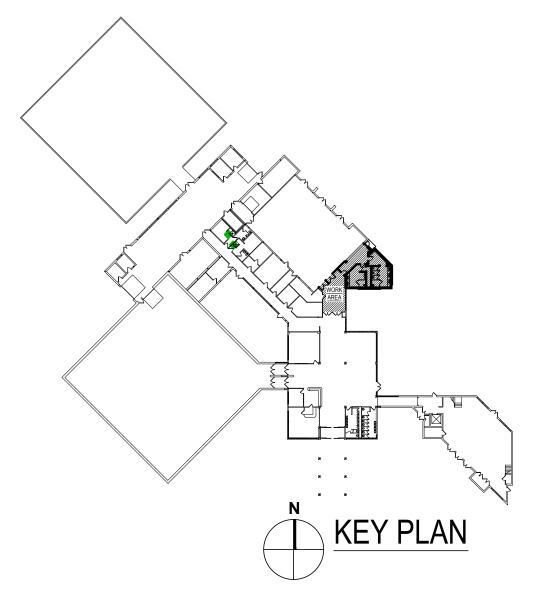
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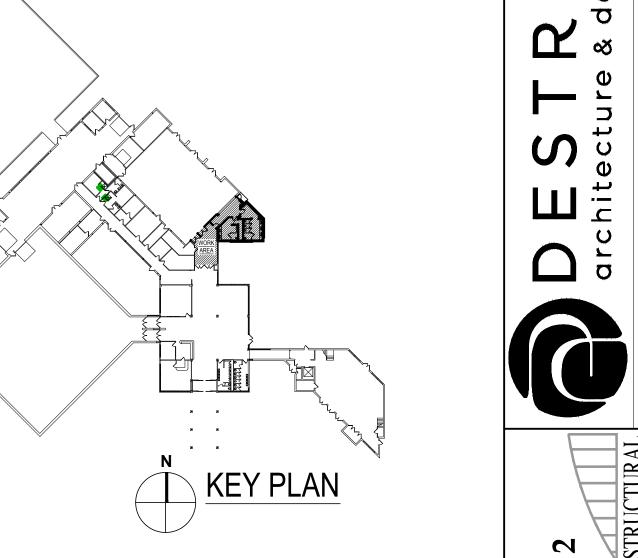
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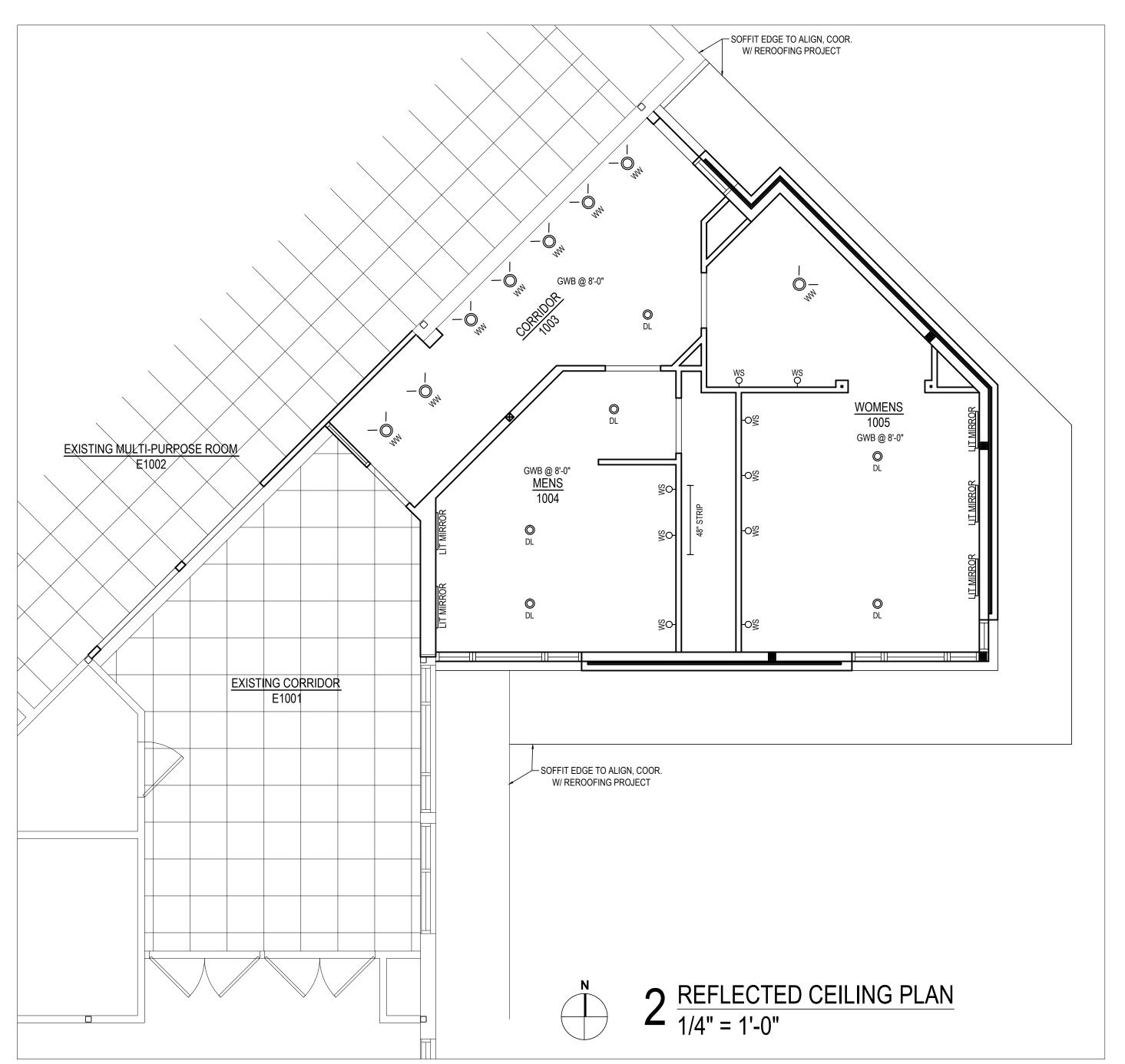


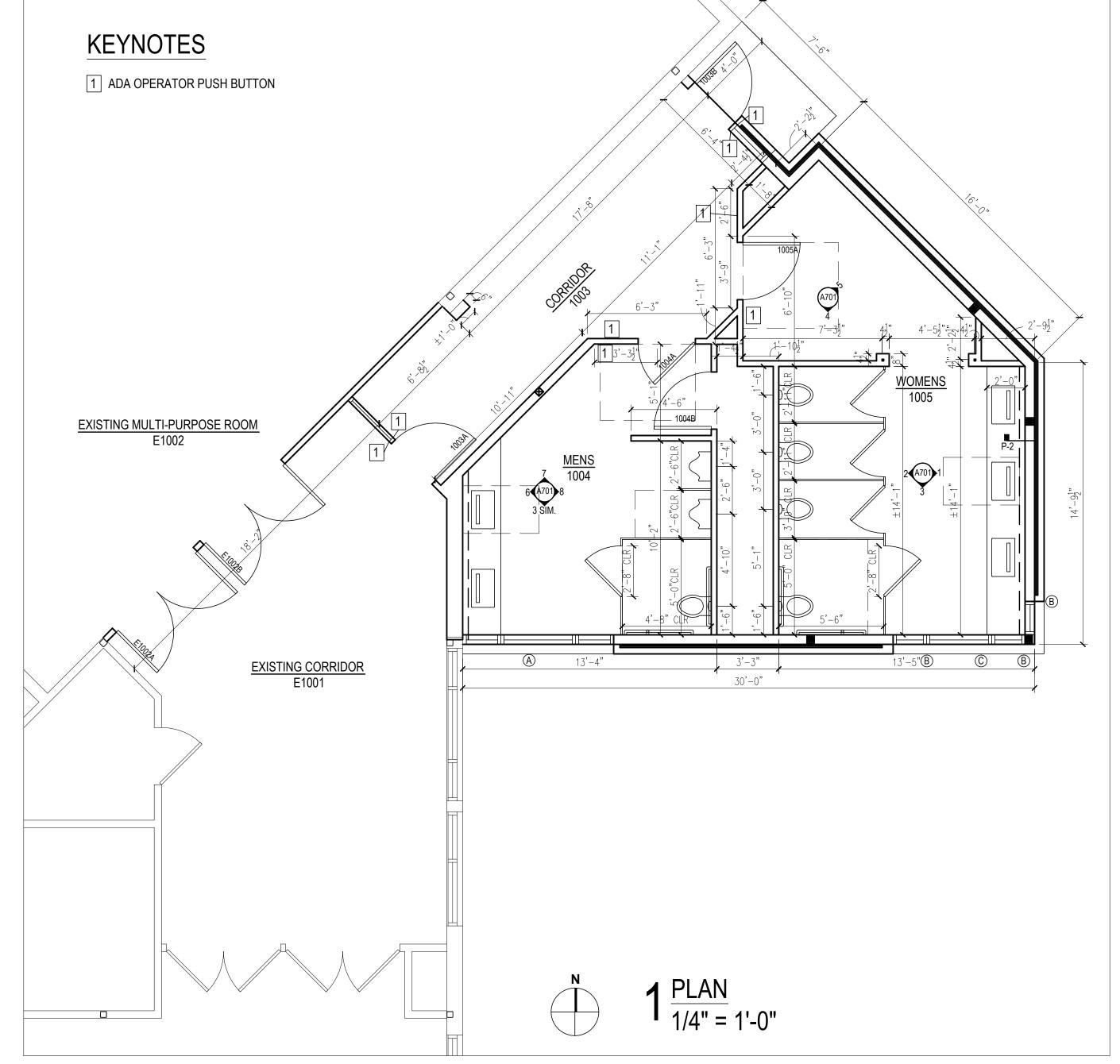
# GENERAL NOTES

1. ALL INTERIOR PARTITIONS TO BE TYPE P-1 UNLESS OTHERWISE NOTED.







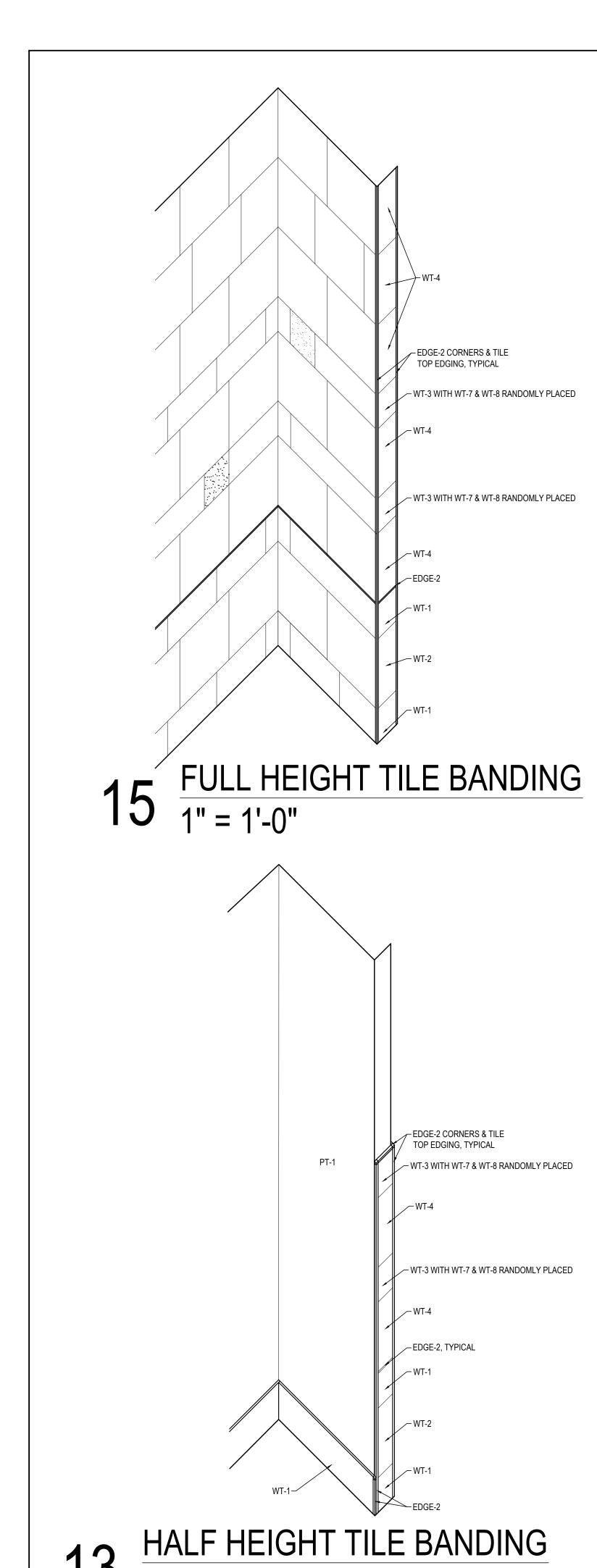


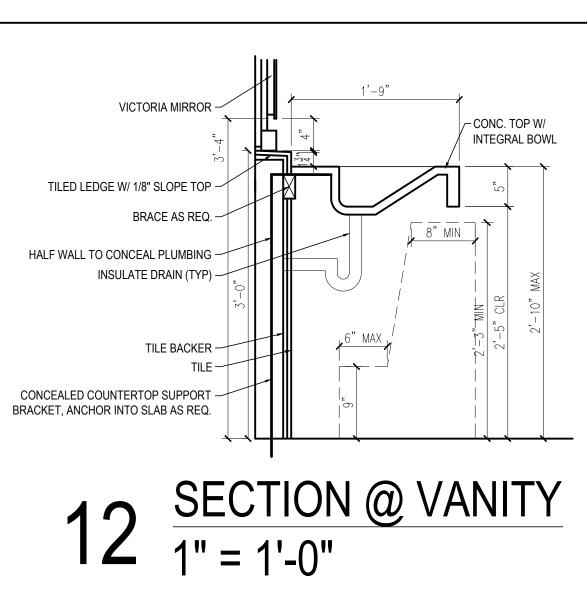


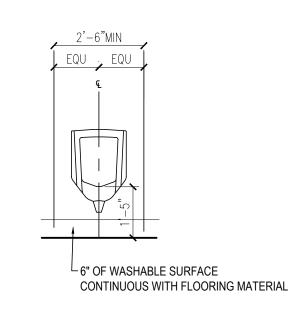
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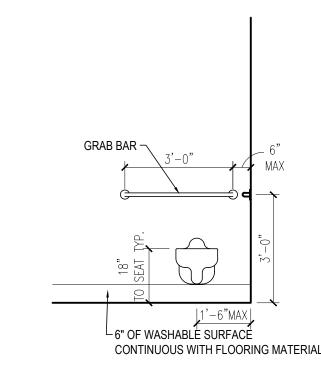
# **GENERAL NOTES** 1. PATCH XTG MASONRY AS REQUIRED. 2. CONTRACTOR TO VERIFY ALL MASONRY EXPANSION JOINT LOCATIONS WITH ARCHITECT. 3. MATERIALS: STONE: EDEN STONE INC. WINDSOR BLEND 4. ROOFING/ROOF INSULATION TO BE BY OWNER PROVIDED CONTRACTOR. 5. SEE SPECIFICATION MANUAL FOR ADDITIONAL INFORMATION. 2 ROOF/INSULATION BY $\neg$ REROOFING CONTRACTOR ROOF/INSULATION BY REROOFING CONTRACTOR ALIGN ROOF PLANE W/ XTG, >— ALIGN ROOF PLANE W/ XTG, COOR. W/ REROOFING PROJECT COOR. W/ REROOFING PROJECT SOFFIT TO ALIGN W/ XTG TOP OF WALL (ALIGN W/ XTG) ELEV. +/-108'-1" FASCIA DETAIL BY REROOFING CONTRACTOR FASCIA DETAIL BY — TOP OF WALL (ALIGN W/ XTG) ELEV. +/-108'-1" - HEAD TO MATCH XTG REROOFING CONTRACTOR /-- HEAD TO MATCH XTG HEAD TO MATCH XTG $\neg$ HEAD TO MATCH XTG -WINDOW HEAD (ALIGN W/ XTG) ELEV. +/-107'-4.5" WINDOW HEAD (ALIGN W/ XTG) ELEV. +/-107'-4.5" **HEIN** Engineering Group WINDOWS TO -MATCH XTG SOFFIT TO ALIGN W/ XTG WINDOWS TO MATCH XTG -SILL HGT TO — MATCH XTG SILL HGT TO MATCH XTG FIRST FLOOR (ALIGN W/ XTG) FIRST FLOOR (ALIGN W/ XTG) STONE TO MATCH XTG, — STONE TO MATCH XTG, EDEN:WINDSOR CONTRACTOR TO PROVIDE MOCK-UP FOR APPROVAL PRIOR TO INSTALL EDEN:WINDSOR CONTRACTOR TO PROVIDE MOCK-UP FOR APPROVAL PRIOR TO INSTALL $2^{\frac{\text{EAST ELEVATION}}{1/4" = 1'-0"}}$ $3 \frac{NORTH ELEVATION}{1/4" = 1'-0"}$ EXISTING 12 4 ROOF/INSULATION BY REROOFING CONTRACTOR FASCIA DETAIL BY TREROOFING CONTRACTOR SOFFIT TO ALIGN W/ XTG HEAD TO MATCH XTG TOP OF WALL (ALIGN W/ XTG) ELEV. +/-108'-1" WINDOW HEAD (ALIGN W/ XTG) ELEV. +/-107'-4.5" ISSUANCES: 12.21.12 PROJECT: NUMBER: 120410.00 FIRST FLOOR (ALIGN W/ XTG) ELEV. +100'-0" DATE: 12.21.12 STONE TO MATCH XTG, — EDEN:WINDSOR CONTRACTOR TO PROVIDE MOCK-UP FOR APPROVAL PRIOR TO INSTALL $1 \frac{\text{SOUTH ELEVATION}}{1/4" = 1'-0"}$ SHEET:



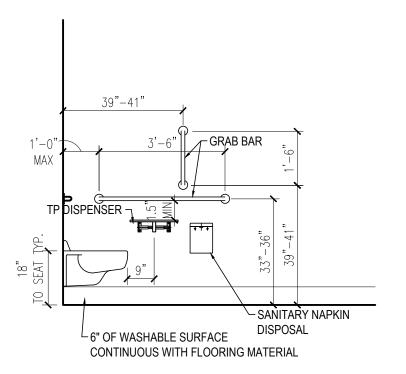




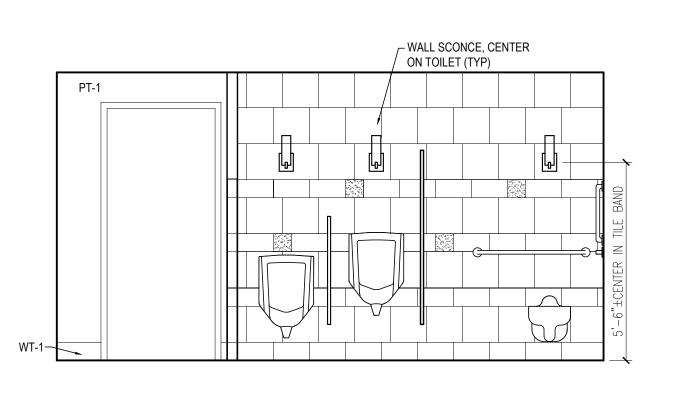
TYPICAL ADA ELEVATION



 $\frac{10}{3/8"} = \frac{1'-0"}{1}$ 



TYPICAL ADA ELEVATION 3/8" = 1'-0"



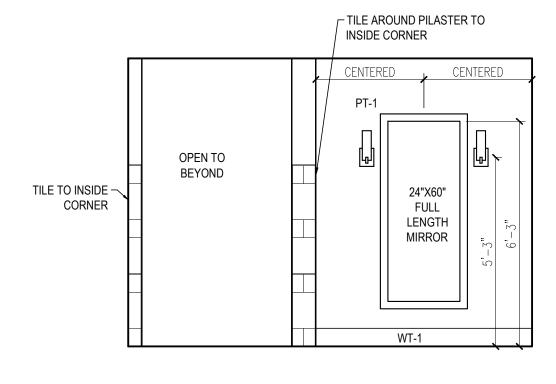
PT-1

CONC COUNTER TOP

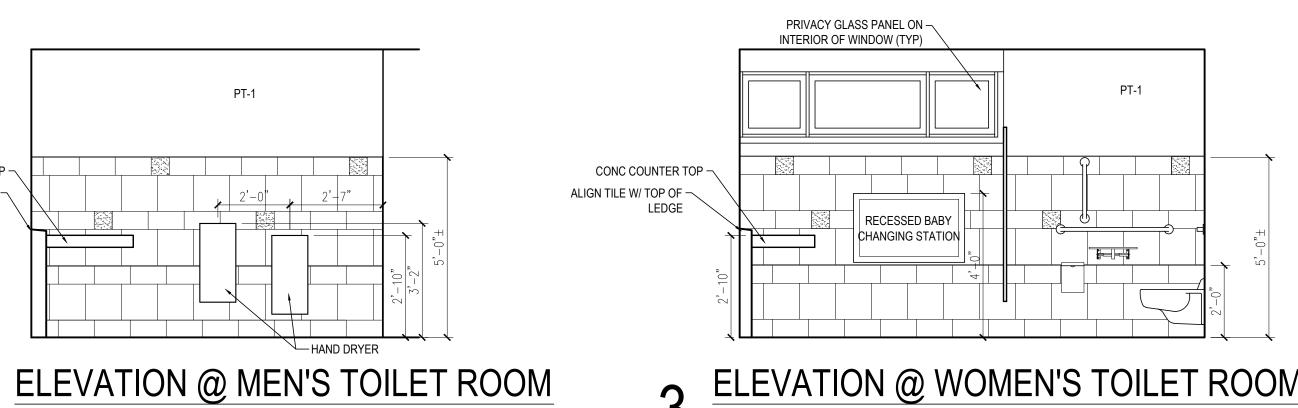
3/8" = 1'-0"

ALIGN TILE W/ TOP OF --LEDGE

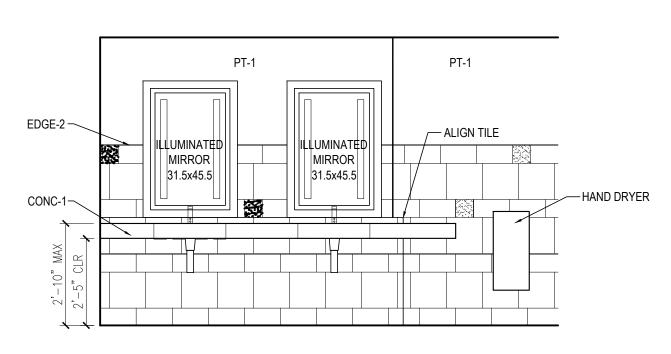
ELEVATION @ MEN'S TOILET ROOM 3/8" = 1'-0"



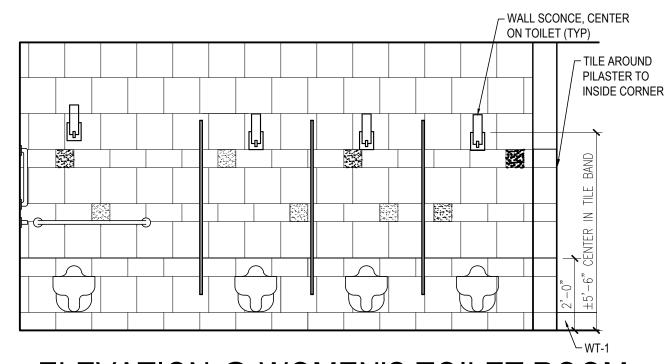
4 ELEVATION @ WOMEN'S TOILET ROOM 3/8" = 1'-0"



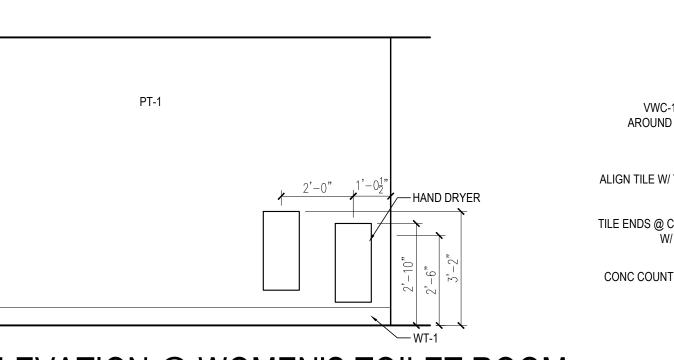
ELEVATION @ WOMEN'S TOILET ROOM 3/8" = 1'-0"



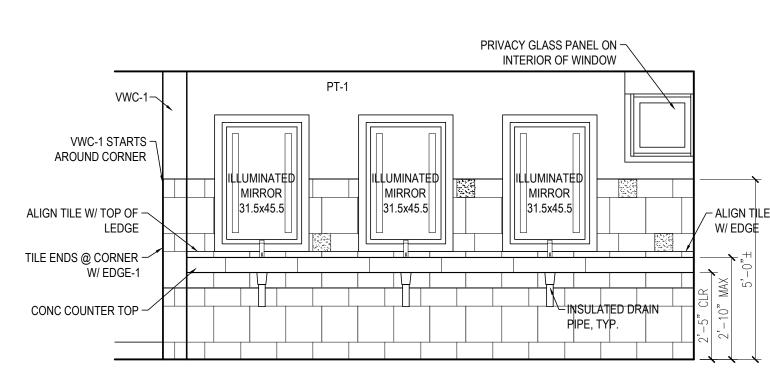
ELEVATION @ MEN'S TOILET ROOM
3/8" = 1'-0"



ELEVATION @ WOMEN'S TOILET ROOM  $2 \frac{\text{ELEVATION}}{3/8" = 1'-0"}$ 



ELEVATION @ WOMEN'S TOILET ROOM 3/8" = 1'-0"

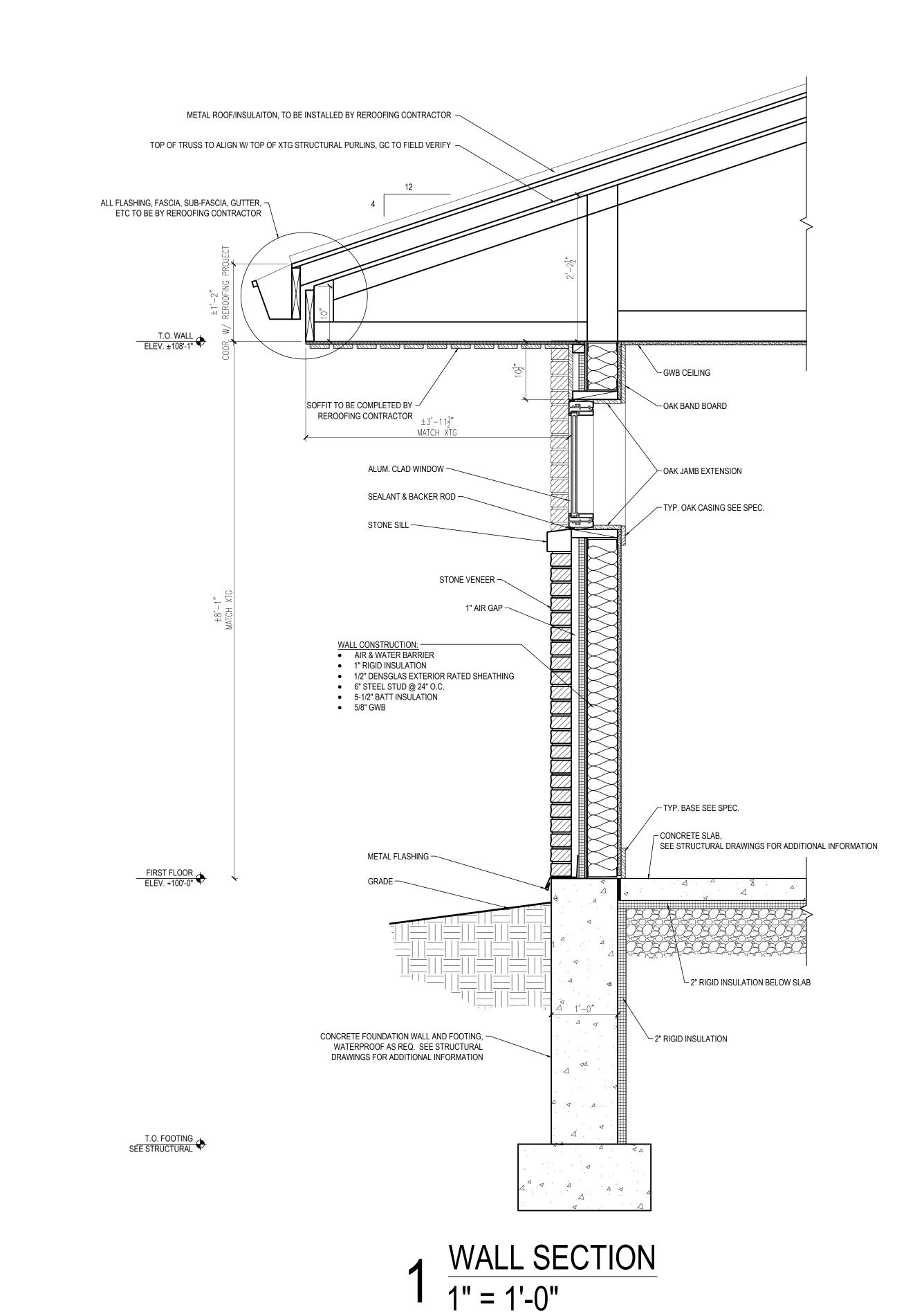


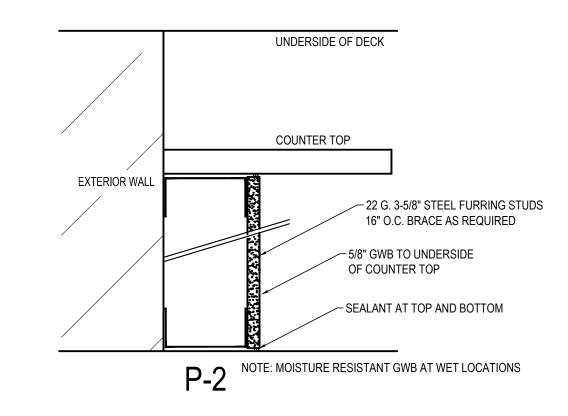
ELEVATION @ WOMEN'S TOILET ROOM 3/8" = 1'-0"

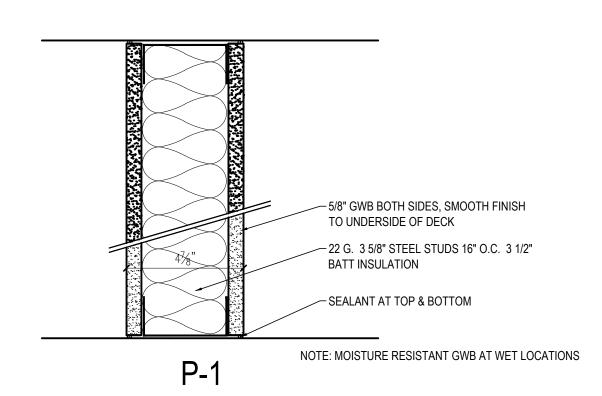
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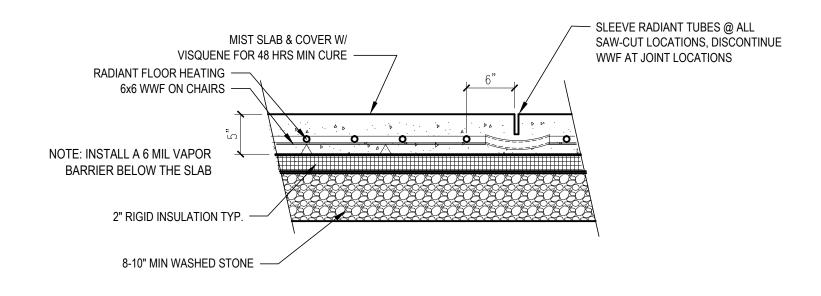
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 $10 \frac{\text{WALL PARTITION DETAILS}}{3" = 1'-0"}$ 



 $9 \frac{\text{SLAB DETAIL}}{1" = 1'-0"}$ 

ISSUANCES:
CD'S 12.21.12

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**HEIN** Engineering Group

PROJECT:

NUMBER: 120410.00

DATE: 12.21.12

SHEET:

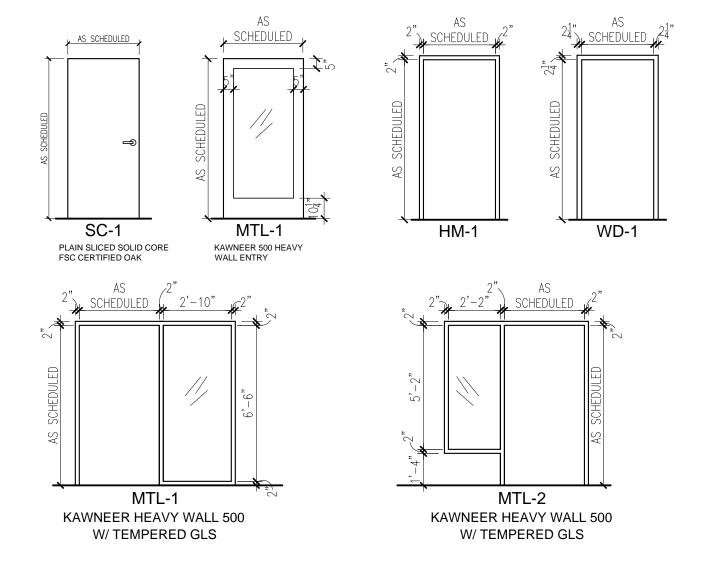
A800

# DOOR SCHEDULE

#	SIZE	THK	MATERIAL	DR TYPE	FRAME TYPE	SIDELIGHT	GLASS	LOCK SET	RATING	CLOSER	REMARKS
E1002A	(2)3'-0"x7'-0"	1 3/4"	OAK	SC-1	WD-1			YES		YES W/ HOLDOPEN	KICKPLATE, KICK-DOWN HOLD OPEN
E1002B	(2)3'-0"x7'-0"	1 3/4"	OAK	SC-1	WD-1			YES		YES W/ HOLDOPEN	KICKPLATE, KICK-DOWN HOLD OPEN
1003A	3'-0"x7'-0"	2"	ALUMINUM	MTL-1	MTL-1	YES	YES	YES		YES	ADA THRESHOLD, KICKPLATE, ADA OPERATOR, ALARM ROUGH-IN, EGRESS HARDWARE, KICK-DOWN HOLD OPEN
1003B	3'-0"x7'-0"	2"	ALUMINUM	MTL-1	MTL-2	YES	YES	YES		YES	ADA THRESHOLD, SWEEP, KICKPLATE, ADA OPERATOR, ALARM ROUGH-IN, EGRESS HARDWARE
1004A	3'-0"x7'-0"	1 3/4"	OAK	SC-1	WD-1			PUSH/PULL		YES	KICKPLATE, ADA OPERATOR
1004B	3'-0"x7'-0"	1 3/4"	OAK	SC-1	WD-1			STOREROOM		YES	
1005A	3'-0"x7'-0"	1 3/4"	OAK	SC-1	WD-1			PUSH/PULL		YES	KICKPLATE, ADA OPERATOR

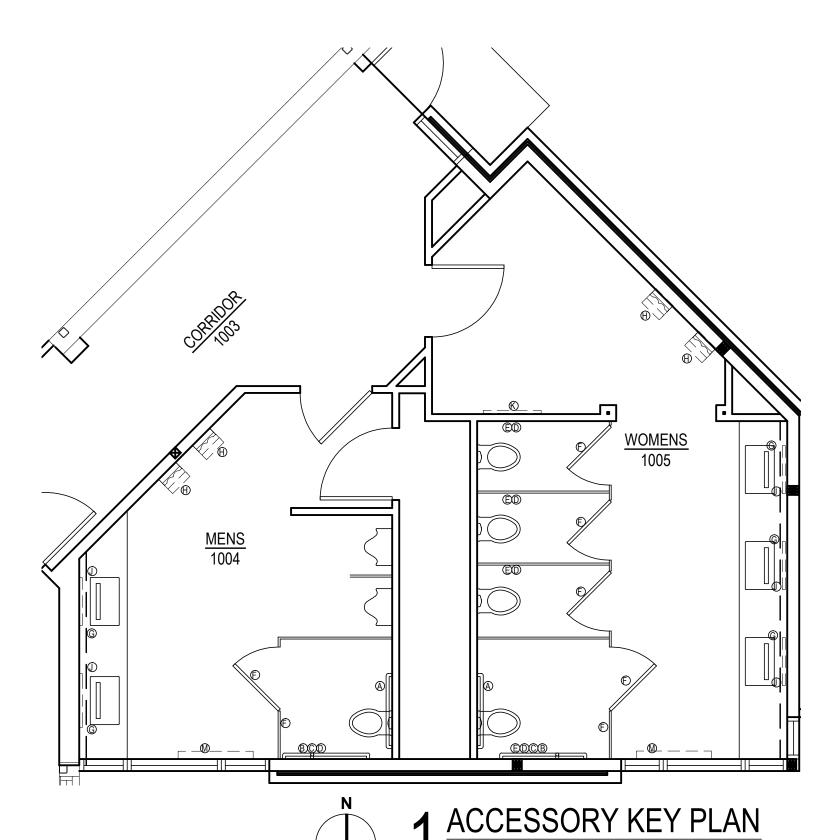
- ALL DOORS TO HAVE 4" RETURN ON HINGE SIDE UNLESS OTHERWISE NOTED.
- VERIFY LOCKING W/ OWNER, CONTRACTOR TO COOR. KEYING TO MATCH XTG.

- DOOR STOPS, HINGES AND CLOSERS TO MATCH HARDWARE SELECTION UNLESS OTHERWISE NOTED.
- CONTRACTOR TO FIELD VERIFY ALL DOOR OPENINGS PRIOR TO ORDERING.
- HOLLOW METAL FRAMES TO BE PAINTED PT-2, SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION.
- 8. ARCHITECT TO APPROVE DOOR AND HARDWARE SHOPS PRIOR TO ORDERING.
- 9. CONTRACTOR TO COORDINATE FOIC DOOR SIGNAGE WITH OWNER.



	WINDOW SCHEDULE											
CALLOU	CALLOUT FRAME SIZE ROUGH OPENING TYPE MODEL NUMBER REMARKS											
A	XTG	8'-0" x 1'-9-3/4"	XTG	XTG	RELOCATED WINDOW, PRIVACY GLASS PANEL ON INTERIOR							
B	1'-9" x 1'-9"	1'-9-3/4" x 1'-9-3/4"	TRANSOM	2121	FROSTED PRIVACY GLASS PANEL ON INTERIOR							
(A) (B) (B)	3'-5" x 1'-9"	3'-5-3/4" x 1'-9-3/4"	AWNING	4121	FROSTED PRIVACY GLASS PANEL ON INTERIOR							

- 1. CONTRACTOR TO FIELD VERIFY ALL OPENINGS PRIOR TO ORDERING.
- WINDOWS ARE SPECIFIED AS PELLA TO MATCH EXISTING.
- ARCHITECT TO APPROVE WINDOW AND HARDWARE SHOPS PRIOR TO ORDERING.
- EXTERIOR CLAD AND INTERIOR WOOD TO MATCH XTG WINDOWS.
- CONTRACTOR TO VERIFY ALL SILLS, RAILS, STYLES, ETC. SIZES MATCH XTG WINDOWS.
- HARDWARE FINISH TO MATCH XTG WINDOWS.
- DOOR STOPS,HINGES AND CLOSERS TO MATCH HARDWARE SELECTION UNLESS OTHERWISE NOTED.
- CONTRACTOR TO COORDINATE FOIC DOOR SIGNAGE WITH OWNER.
- PRIVACY GLASS TO BE INSTALLED ON INSIDE OF WINDOW FRAME, STOPS TO BE STAINED TO MATCH WINDOW FRAME.



	TOILET ROOM ACCESSORY SCHEDULE										
KEY	ITEM	MANUF.	MODEL#	REMARKS							
Α	36" GRAB BAR	BOBRICK	B-6806	OR EQUAL							
В	42" GRAB BAR	BOBRICK	B-6806	OR EQUAL							
С	18" VERTICAL GRAB BAR	BOBRICK	B-6806	OR EQUAL							
D	TOILET PAPER DISPENSER	BOBRICK	B-2840	OR EQUAL, WITH THEFT RESISTANT SPINDLE							
Е	SANITARY DISPOSAL	BOBRICK	B-270	OR EQUAL							
F	COAT HOOK	BOBRICK	B-6727	OR EQUAL							
G	SOAP DISPENSER	BOBRICK	B-826	HARD WIRED							
Н	HAND DRYER	DYSON									
J	VANITY MIRROR	MAJESTIC	VICTORIA	BACK-LIT MIRROR, VERIFY LEAD TIME							
K	FULL LENGTH MIRROR	MAJESTIC	CUSTOM	24"X60" MIRROR W/ FRAME TO MATCH THE VICTORIA, VERIFY LEAD TIME							
М	BABY CHANGING STATION	KOALA	KB110-SSRE	USE 3.5" BATT INSULATION IN BEHIND, $\underline{\text{DO NOT}}$ COMPRESS 5.5" INSULATION							

1. ALL ACCESSORIES TO BE INSTALLED PER ADA REQUIREMENTS.

2 **HEIN** Engineering Group

ISSUANCES:

CD'S	12.21.12
PRO IFCT	

IPROJECT: 120410.00 12.21.12

RC	OOM FINISH SCHED	ULE									
		FLOORING		CASEWORK	WALLS				CEILING		
#	ROOM	MATERIAL	BASE	COUNTERS	NORTH	EAST	SOUTH	WEST	MATERIAL	HGT	REMARKS
E1001	EXISTING CORRIDOR	XTG	XTG						XTG	XTG	PATCH ALL FINISHES AS REQ. TO MATCH ADJACENT XTG, WOOD CROWN BAND TO MATCH XTG
E1002	EXISTING MULTI-PURPOSE ROOM	XTG	XTG						XTG	XTG	
1003	CORRIDOR	TILE-1/TILE-2	TB-1		STONE-1/PT-2	PT-2	PT-2	PT-2	PT-4	8'-0"	
1004	MENS TOILET ROOM	TILE-1/TILE-2	WT-1	CONC-1	TILE/PT-1	TILE/PT-1	TILE/PT-1	TILE/PT-1	PT-4	8'-0"	
1005	WOMENS TOILET ROOM	TILE-1/TILE-2	WT-1	CONC-1	PT-1	TILE/PT-1	TILE/PT-1	TILE/PT-1	PT-4	8'-0"	

## NOTES:

- 1. CONTRACTOR TO SUBMIT ALL MATERIAL SAMPLES TO ARCHITECT FOR APPROVAL PRIOR TO INSTALL.
- 2. SEE SPECIFICATION BOOK FOR ADDITIONAL MATERIAL SELECTION INFORMATION.
- 2. PAINT ON ALL METAL SURFACES (DOORS, DOOR FRAMES, FINNED TUBE COVERS, IN WALL SUPPLY/RETURN GRILLES, ETC.) TO BE SPRAY APPLIED.
- 8. WALL TEXTURE TO MATCH ADJACENT WALLS AT PATCH/INFILL LOCATIONS.
- 4. WALL TEXTURE AT NEW WALLS TO BE LIGHT ORANGE PEEL.
- 5. PAINT ENTIRE WALL AT PATCH/INFILL LOCATIONS.
- 6. ALL WALL PANELS/GRILLES/VENTS TO BE PAINTED WALL COLOR.
- 7. TILE BASE TO BE INSTALLED AT ALL NEW TILE FLOOR LOCATIONS.
- 8. ALL GROUT TO BE EPOXY TYPE.
- 9. GROUT AT TILE-1 TO MATCH XTG, CONTRACTOR TO PROVIDE GROUT MIXED MOCK-UP FOR ARCHITECT TO APPROVE, PRIOR TO INSTALL.

# ROOM FINISH SELECTIONS:

## FLOO

TILE-1: UNICOM STARKER, NATURAL SLATE COLLECTION, COLOR: AUTUMN, SIZE: 16"X 24", CONTACT: MARK KUEPPER,

INSULATION & SUPPLY, 920.757.1516

GROUT: LATICRETE, 00% EPOXY, COLOR: 67 AUTUMN GREEN

TILE-2: CROSSVILLE, COLLECTION: COLOR BLOX, COLOR: TREE HOUSE A1114, SIZE: 6"X12"

GROUT: LATICRETE, 100% EPOXY, COLOR: 67 AUTUMN GREEN

## BASE:

TB-1: UNICOM STARKER, NATURAL SLATE COLLECTION, COLOR: AUTUMN, SIZE: 4"X16", CONTACT: MARK KUEPPER, INSULATION

& SUPPLY, 920.757.1516

GROUT: LATICRETE, 100% EPOXY, COLOR: 67 AUTUMN GREEN
WB-1: PATCH AS REQ. MATCH XTG 3-1/2"x3/4" SQUARE STOCK, FILL, SEAL, STAIN W/ 2-COATS SATIN "NATURAL"

# TRIM:

## TIXIIVI.

# CEILING BAND BOARD: PATCH AS REQ. MATCH XTG 11-1/4"x3/4", FILL, SEAL, STAIN W/ 2-COATS SATIN "NATURAL"

# PT-1: SHERWIN WILLIAMS, STUCCO 7569, EGGSHELL (MAIN)

- PT-2: SHERWIN WILLIAMS, PEARLY WHITE 7009, EGGSHELL (MAIN)
- DT 2. MATCH EVICTING CEMI CLOCC (METAL DOOD EDAMES)
- PT-3: MATCH EXISTING, SEMI-GLOSS (METAL DOOR FRAMES)
- PT-4: MATCH EXISTING (CEILING)
- WT-1: CROSSVILLE, COLLECTION: COLOR BLOX, COLOR: TREE HOUSE A1114, SIZE: 6"x12"
- GROUT: LATICRETE, 100% EPOXY, COLOR: 67 AUTUMN GREEN
- WT-2: CROSSVILLE, COLLECTION: COLOR BLOX, COLOR: TREE HOUSE A1114, SIZE: 12"x18" GROUT: LATICRETE, 100% EPOXY, COLOR: 67 AUTUMN GREEN
- WT-3: CROSSVILLE, COLLECTION: COLOR BLOX, COLOR: SAND BOX A1101, SIZE: 6"x12"
- GROUT: LATICRETE, 100% EPOXY, COLOR: 39 MUSHROOM
  WT-4: CROSSVILLE, COLLECTION: COLOR BLOX, COLOR: SAND BOX A1001, SIZE: 12"x18"
- GROUT: LATICRETE, 100% EPOXY, COLOR: 39 MUSHROOM
- WT-5: CROSSVILLE, MIXOLOGY BRONZE COLLECTION, FLORAL MEDALLION, 6"x6" DECO, MX101.10606FM
  - (18 TILES RANDOMLY PLACED PER DETAIL 15/A700)
- GROUT: LATICRETE, 100% EPOXY, COLOR: 39 MUSHROOM
  WT-6: CROSSVILLE, MIXOLOGY BRONZE COLLECTION, VINE, 6"x6" DECO, MX101.10606V
  - (18 TILES RANDOMLY PLACED PER DETAIL 15/A700)
  - GROUT: LATICRETE, 100% EPOXY, COLOR: 39 MUSHROOM

# STONE-1: XTG STONE

EDGE-1: SCHLUTER SYSTEMS, QUADEC(Q-80-ABGB), BRUSHED ANTIQUE BRONZE ANODIZED ALUMINUM

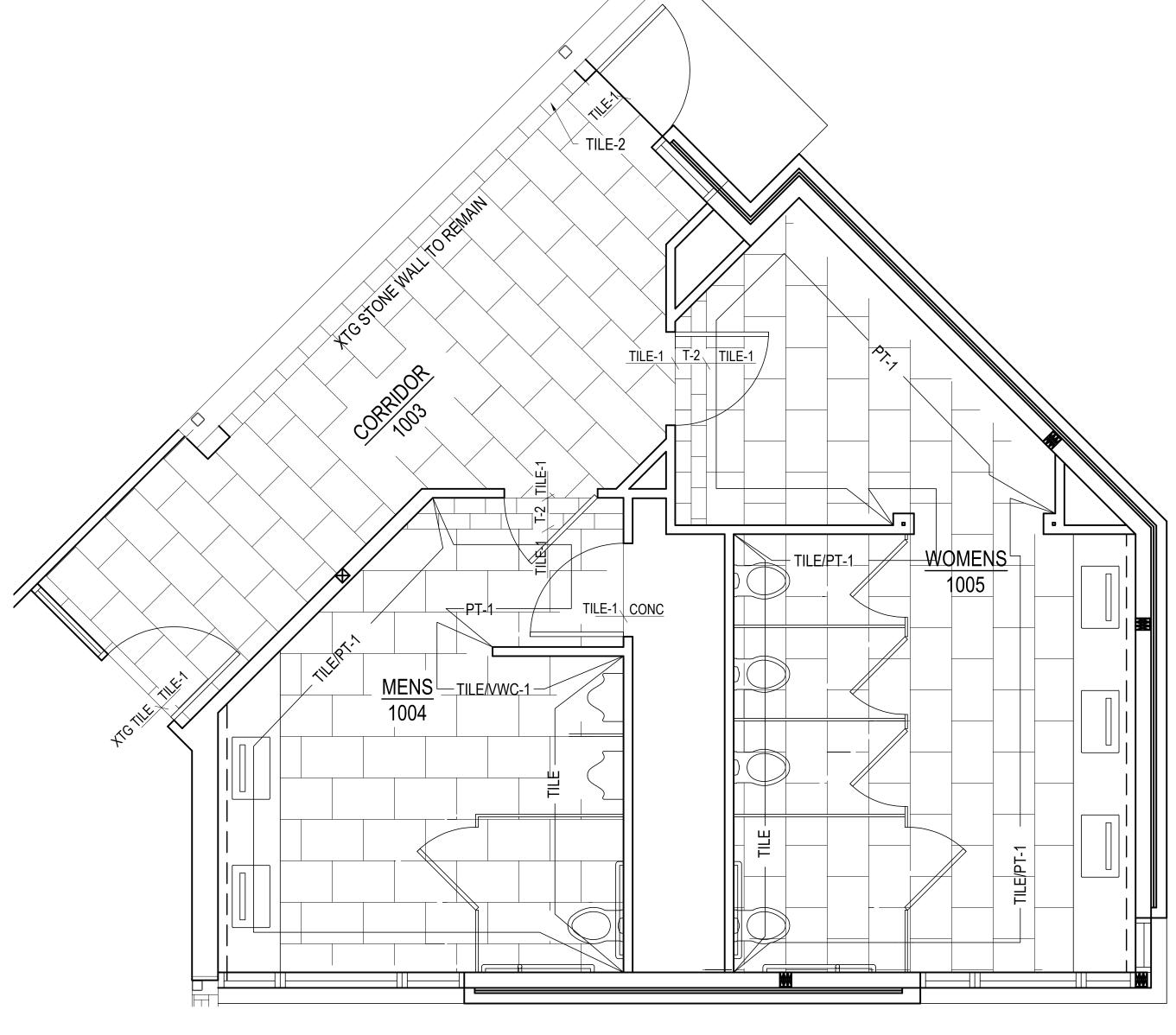
# COUNTER TOPS:

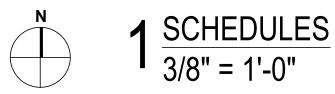
CONC-1: CUSTOM CRETEWERKS INTEGRAL CONCRETE COUNTERTOPS & SINK, N-EARTHED COLOR COLLECTION, COLOR:

# ASH, SINK: GATES 24"

# TOILET PARTITIONS:

HADRIAN TOILET PARTITIONS, FLOOR TO CEILING MOUNTED AND WALL HUNG URINAL SCREEN, 815 BRONZE METALLIC POWDER COATED





ESTREC chitecture & design







SLBRICH GARDENS

STROOM ADDITIO

3330 ATWOOD AVENUE

ISSUANCES:

CD'S 12.21.12 ---- ----PROJECT:

NUMBER: 120410.00

DATE: 12.21.12

REV: ----

SHEET:

A901

1. DESIGNED IN ACCORDANCE WITH THE CURRENT WISCONSIN COMMERICAL BUILDING CODE BASED ON IBC 2009. 2. DESIGN LOADS:

2.1. ROOF DEAD LOAD 2.2. ROOF LIVE LOAD: 20 PSF (REDUCIBLE) 2.3. DESIGN SNOW LOAD: Pq = 30.0 PSFPf = 0.7(Ce)(Ct)(Cs)(I)(Pg)Ce = 1.0Ct = 1.10Cs = 1.01 = 1.0UNIFORM ROOF DESIGN SNOW LOAD = 23.1 PSF NOTE: UNBALANCED SNOW & DRIFTING SNOW CONSIDERED FOR DESIGN. SEE ROOF FRAMING PLAN FOR ADDITIONAL LOADING. 2.4. WIND DESIGN CRITERIA WIND SPEED = 90 MPH EXPOSURE = BI = 1.0Kzt = 1.0

GCpi = +/- .018

SEISMIC DESIGN CATEGORY = B

TOTAL BASE SHEAR = 0.055\*W

SEISMIC USE GROUP = 1

2.5. SEISMIC DESIGN CRITERIA:

SDS = 0.104

SD1 = 0.044

SITE CLASS = D

WIND PRESSURE = 20 PSF

SEISMIC RESISTING SYSTEM = LIGHT FRAME WALLS WITH SHEAR PANELS

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL CONDITIONS PRIOR TO BIDDING. THIS INCLUDES INSURING ERECTION CAN BE PERFORMED AS DETAILED ON THE PLANS. IF MODIFICATIONS ARE NEEDED TO FACILITATE ERECTABILITY THE BIDDING CONTRACTOR SHALL NOTIFY THE OWNER, ARCHITECT AND ENGINEER AND CLEARLY COMMUNICATE ASSUMPTIONS IN BID DOCUMENTS. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ADDITIONAL COSTS DUE TO REQUIRED MODIFICATIONS OF THESE PLANS TO FACILITATE ERECTION SEQUENCING ETC.
- THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON NEW OR EXISTING STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.
- THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR HAVING AN INDEPENDENT ENGINEER DESIGN AND FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES. THE STRUCTURAL ENGINEER SEAL ON THESE DRAWINGS ASSUMES NO LIABILITY FOR THE STRUCTURE DURING CONSTRUCTION.
- 4. THE CONTRACTOR IS RESPONSIBLE FOR ALL MEANS AND METHODS OF CONSTRUCTION AND ALL JOB SITE SAFETY.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL BUILDING MATERIALS AND COMPONENTS. COMPONENT LOCATIONS ARE SHOWN FOR DESIGN INTENT, NOT EXACT LOCATION, UNLESS NOTED SPECIFICALLY. INDEPENDENTLY PREPARED SHOP DRAWINGS ARE REQUIRED OF ALL TRADES FOR COORDINATION AND BEST PRACTICE. ERRORS OR OMISSIONS IN INSTALLATION DUE TO THE CONTRACTOR'S FAILURE TO COORDINATE THE WORK WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR
- 6. THE CONTRACTOR SHALL FIELD VERIFY ALL SIZES, DIMENSIONS, ELEVATIONS AND LOCATIONS, ETC. OF ELEMENTS OF THE EXISTING CONSTRUCTION WHICH ARE RELATIVE TO THE NEW CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY OF ANY DESCREPANCIES BETWEEN CONSTRUCTION DOCUMENTS AND ACTUAL FIELD CONDITIONS.
- THE ENGINEER HAS MADE ASSUMPTIONS CONCERNING THE SOUNDNESS OF THE EXISTING BUILDING, INCLUDING THAT THE EXISTING BUILDING WAS DESIGNED AND CONSTRUCTED IN CONFORMITY WITH GOOD DESIGN AND CONSTRUCTION PRACTICES. THE CONTRACTOR SHALL TAKE EXTRAORDINARY PRECAUTIONS CONCERNING PRESERVATION OF THE BUILDING DURING DEMOLITION AND NEW CONSTRUCTION WORK. THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR THE PRESERVATION OF THE EXISTING STRUCTURE.

- 1. NET ALLOWABLE SOIL BEARING CAPACITY: 2,000 PSF (ASSUMED CONTRACTOR TO FIELD VERIFY).
- 2. PROJECT GEOTECHNICAL REPORT SUPERSEDES GEOTECHNICAL INFORMATION PROVIDED ON STRUCTURAL PLANS.
- WHEN IT IS POSSIBLE FOR GROUND WATER TO SEEP TOWARD SUBGRADE FOUNDATIONS AND RETAINING WALLS, THESE WALLS SHALL HAVE A POSITIVE DRAINAGE SYSTEM AT THE BASE OF THE WALL CONSISTING OF A PERFORATED DRAIN PIPE PROTECTED BY A GEOTEXTILE FABRIC SURROUNDED BY CONCRETE SAND (TORPEDO SAND). NEAR THE BASE OF THE WALL. OTHER BACK FILL MATERIAL SHALL BE SAND WITH LESS THAN 12% PASSING THE #200 SIEVE.
- 4. DO NOT USE EXCESSIVE COMPACTION EFFORTS ADJACENT TO BASEMENT OR RETAINING WALLS. SUCCESSIVE PASSES OF A COMPACTOR CAN RESULT IN WALL PRESSURE BUILD UP BEYOND THE DESIGN INTENT.
- 5. REFER TO THE GEOTECHNICAL INVESTIGATION FOR INFORMATION REGARDING EXCAVATION, SIDE SLOPES, SUB-GRADE PREPARATION, AND FILL RECOMMENDATIONS.
- 6. PROVIDE SUB-GRADE PREPARATION AS PER THE PLANS OR PROJECT GEOTECHNICAL REPORT.
- WHEN UNDERPINNING IS REQUIRED EXISTING FOOTINGS SHALL BE SEQUENTIALLY UNDERPINNED WITH UNDERMINED FOOTING SEGMENTS NOT TO EXCEED 4'-0" AT ANY TIME WITHOUT PRIOR AUTHORIZATION. THE GENERAL CONTRACTOR SHALL SUBMIT FOR REVIEW TO THE PROJECT STRUCTURAL ENGINEER A DETAILED CONSTRUCTION SEQUENCE PLAN. THE PLAN SHALL INCLUDED INTENDED METHODS, MATERIALS AND A PRECONSTRUCTION SURVEY OF THE EXISTING BUILDING AND HAVE PROVISIONS FOR MONITORING THE EXISTING CRACKS.
- 8. REMOVE TOPSOIL FROM BENEATH ALL PROPOSED CONSTRUCTION AREAS. SALVAGE AND STOCK PILE TOPSOIL, CUT/FILL MATERIAL AS NECESSARY TO MATCH GRADES SHOWN ON DRAWINGS.
- 9. GRADE AREAS IN ACCORDANCE WITH ELEVATIONS AND GRADES SHOWN ON THE SITE DRAWINGS AND AS REQUIRED FOR DRAINAGE.
- 10. SLAB ON GROUND TO BE CONSTRUCTED ON A MINIMUM OF 6" OF CRUSHED STONE OR GRANULAR FILL COMPACTED TO 95% MODIFIED PROCTOR OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
- 11. ALL FILL MATERIAL USED IN GRADING OPERATIONS SHALL CONSIST OF EARTH, WHICH IS FREE OF DEBRIS, BOULDERS OR ORGANIC MATERIAL. FILL SHALL BE PLACED IN MAXIMUM OF 12" LIFTS AND COMPACTED TO 95% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
- 12. THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 4'-0" BELOW FINISHED GRADE.
- 13. ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR COMPACTED FILL HAVING A MINIMUM ALLOWABLE BEARING CAPACITY EQUAL TO THE PRESUMPTIVE CAPACITY ABOVE.
- 14. THE ENGINEER SHALL BE NOTIFIED IF ACTUAL FIELD CONDITIONS DO NOT MEET BEARING REQUIREMENTS, OR IF QUESTIONABLE SOIL CONDITIONS ARE DISCOVERED INCLUDING BUT NOT LIMITED TO PEAT AND OTHER HIGH ORGANIC SOILS.
- 15. ALL BEARING SOIL OR FILL MUST BE PROTECTED FROM FREEZING. THE CONTRACTOR SHALL PROVIDE PROTECTION TO PREVENT FROST PENETRATION BELOW THE CONCRETE BEARING ELEVATIONS. ANY FROZEN SOIL BELOW THE FOUNDATION BEARING LEVEL MUST BE REMOVED PRIOR TO PLACING CONCRETE.
- 16. ALL SLABS ON GRADE AREAS SHALL BE PROOF ROLLED. ALL SOFT SPOTS SHALL BE REMOVED AND REPLACED WITH COMPACTABLE FILL.

# **CONCRETE CONSTRUCTION:**

- 1. ALL CONCRETE DESIGN AND CONSTRUCTION SHALL CONFORM TO THE LOCAL BUILDING CODE REQUIREMENTS AND THOSE OF THE LATEST EDITION OF THE FOLLOWING STANDARDS: ACI 318, ACI 315, ACI 301, AND ACI 305 & 306.
- 2. ALL CONCRETE UNLESS SPECIFICALLY NOTED SHALL BE NORMAL WEIGHT (145 PCF) AND SHALL ACHIEVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH (fc') AS FOLLOWS:
  - FOOTINGS BELOW FROST LINE: f'c = 3,000 PSIEXTERIOR FOUNDATION WALLS AND GRADE BEAMS

ALL OTHER CONCRETE

FORMED LIFTS SHALL BE GENERALLY LEVEL.

3. ALL CONCRETE SUBJECT TO EXTERIOR EXPOSURE SHALL BE AIR ENTRAINED TO 6% ( $\pm/-$  1.5%) AND HAVE A MAXIMUM 1" AGGREGATE. ALL CONCRETE WITHOUT SUPERPLASTICIZERS SHALL HAVE A MAXIMUM SLUMP OF 4".

f'c = 4,000 PSI

f'c = 4.000 PSI

f'c = 4,500 PSI

f'c = 3,000 PSI

4. ALL SLABS ON GROUND SHALL BE A MINIMUM 6-BAG MIX.

THAT ARE EXPOSED TO FREEZING:

INTERIOR AND EXTERIOR SLAB ON GROUND:

SLAB ON GROUND WITH FORK TRUCK TRAFFIC

- 5. UNLESS THE MIX DESIGN INCLUDES THE USE OF SUPERPLASTICIZERS, CONCRETE WITH A SLUMP GREATER THAN 5" SHALL BE
- 6. ALL CONCRETE REINFORCING STEEL TO BE ASTM A615 GRADE 60. ALL WELDED WIRE FABRIC (WWF) TO BE ASTM A-185. ALL REINFORCING SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI 315 AND 315R.
- 7. ALL REINFORCING BARS AND WWF SHALL BE SET ON CHAIRS AND TIED IN PLACE.
- 8. CONCRETE SLABS ON GROUND CONTAINING WELDED WIRE REINFORCEMENT FABRIC (WWF) SHAL HAVE THE WWF LOCATED IN THE MIDDLE TO THE UPPER ONE-THIRD OF THE SLAB. WELDED WIRE REINFORCEMENT FABRIC SHALL BE SUPPORTED WITH APPROVED MATERIALS OR SUPPORTS AT SPACINGS NOT TO EXCEED 3 FEET (914 MM) OR IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. WELDED PLAIN WIRE REINFORCEMENT FABRIC FOR CONCRETE SHALL CONFORM TO ASTM A 185.
- 9. AFTER CONCRETING HAS STARTED, IT SHALL BE CARRIED ON AS A CONTINUOUS OPERATION UNTIL PLACING OF A PANEL OR SECTION, AS DEFINED BY ITS BOUNDARIES OR PREDETERMINED JOINTS, IS COMPLETED. CONCRETE SHALL BE DEPOSITED AS NEARLY AS PRACTICABLE TO ITS FINAL POSITION TO AVOID SEGREGATION DUE TO REHANDLING OR FLOWING.
- 10. CONCRETING OPERATIONS SHALL BE CARRIED ON AT SUCH A RATE THAT THE CONCRETE IS AT ALL TIMES PLASTIC AND FLOWS READILY INTO SPACES BETWEEN REINFORCEMENT.
- 11. CONCRETE SHALL BE THOROUGHLY CONSOLIDATED BY SUITABLE MEANS DURING PLACEMENT AND SHALL BE THOROUGHLY WORKED AROUND REINFORCEMENT AND EMBEDDED FIXTURES AND INTO CORNERS OF THE FORMS. THE TOP SURFACES OF VERTICALLY
- 12. CONCRETE SHALL BE CURED ABOVE 50°F (10°C) AND IN A MOIST CONDITION FOR AT LEAST THE FIRST SEVEN DAYS AFTER
- 13. ALL FLAT WORK CONCRETE SHALL BE COVERED IMMEDIATELY FOLLOWING SAW CUTTING AND MAINTAINED CONTINUOUSLY WET FOR A MINIMUM OF 7-DAYS AFTER PLACING. CURING SHEETS ARE TO BE USED AND REMAIN IN PLACE. CURING COMPOUNDS MAY BE USED APPLIED MUST BE APPLIED PER THE MANUFACTURES RECOMMENDATIONS. SUBMIT PRODUCT DATA TO A/E FOR APPROVAL.
- 14. RETEMPERED CONCRETE, CONCRETE THAT HAS BEEN REMIXED AFTER INITIAL SET OR PARTIALLY HARDENED SHALL NOT BE USED IN THE STRUCTURE.
- 15. SLAB REINFORCING, BARS OR WWF, SHALL BE PLACED WITHIN 1-1/2" OF THE TOP OF THE SLAB UNLESS NOTED OTHERWISE. PLACING REINFORCING ON CHAIRS OR BOLSTERS AT 3' TO 4' ON CENTER IS REQUIRED. LIFTING REINFORCING AFTER CONCRETE IS PLACED IS NOT CONSIDERED TO BE AN EFFECTIVE MEANS OF PLACEMENT AND SHALL NOT BE ALLOWED WITHOUT PRIOR WRITTEN CONSENT OF THE ENGINEER.
- 16. ALL LAPS SHALL BE "B" SPLICES UNLESS NOTED OTHERWISE ON THE DRAWINGS OR UNLESS SPECIAL CARE IS TAKEN FOR THE REINFORCING TO BE DETAILED AND PLACED TO PROVIDE STAGGERED LAPS.
- 17. ALL CONCRETE SHALL BE CURED FOR A MINIMUM OF SEVEN DAYS.
- 18. UNLESS OTHERWISE APPROVED, ALL EXPOSED CONCRETE WALLS SHALL BE CURED WITH FORMS LEFT IN PLACE FOR SEVEN DAYS. IF FORMS CAN NOT BE LEFT IN PLACE THE CONTRACTOR SHALL SUBMIT IN WRITING TO THE ENGINEER ALL PROPOSED CURING METHODS.
- 19. WALL CRACKS DUE TO IMPROPER CURING METHODS, OR WEATHER PROTECTION SHALL BE THE RESPONSIBILITY OF THE
- 20. MINIMUM EMBEDMENT UNLESS NOTED OTHERWISE. THREADED RODS SHALL HAVE A NUT AND WASHER SECURED TO THE EMBEDDED END EITHER BY WELD OR DOUBLE NUT.
- 21. GROUT USED TO PROVIDE LEVEL BEARING OF COLUMN BASE PLATES SHALL BE NON-SHRINK, NON-METALLIC GROUT WITH A COMPRESSIVE STRENGTH 500 PSI OR MORE GREATER THAN THE COMPRESSIVE STRENGTH OF THE SUPPORTING CONCRETE
- 22. UNLESS NOTED OTHERWISE ON THE DRAWINGS ALL REINFORCING SHALL BE LAPPED TO DEVELOP ITS CAPACITY AS FOLLOWS:

BAR SIZE	STANDARD	TOP BAR	"B" SPLICE	HOOK
#3	13"	16"	16"	6"
#4	17"	22"	22"	8"
<b>#</b> 5	21"	27"	27"	10"
#6	25"	32"	32"	12"
#7	33"	43"	43"	14"

- 23. MULTIPLY B-SPLICE LENGTHS BY 1.3 FOR TOP BAR CONDITIONS. TOP BARS ARE HORIZONTAL BARS WITH 12 INCHES OR MORE OF CONCRETE BELOW.
- 24. SLAB-ON-GRADE SHALL HAVE CLASS "A" TOLERANCE.
- 25. A 6-MIL. (MIN.) POLYETHYLENE VAPOR BARRIER WITH JOINTS LAPPED NOT LESS THAN 6" SHALL BE PLACED BETWEEN THE BASE COURSE OR SUBGRADE AND THE CONCRETE FLOOR.
- 26. CALCIUM CHLORIDE AND OR ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL NOT BE USED.
- 27. PLACING OF CONCRETE SHALL BE DONE IN CONFORMANCE WITH ACI-306 FOR COLD WEATHER AND ACI-305 FOR HOT WEATHER.
- 28. EXPOSED FOUNDATION WALLS SHALL HAVE VERTICAL CONTROL JOINTS SPACED NOT MORE THAN 25'-0" ON CENTER. EACH JOINT SHALL BE 3/4" WIDE BY 1/4 WALL DEPTH DEEP AND V-CHAMFERED ON BOTH SIDES. HORIZONTAL WALL REINFORCING SHALL BE DISCONTINUOUS AT THE CONTROL JOINT LOCATION. THE LOCATION OF WALL CONTROL JOINTS SHALL BE MID BAY BETWEEN COLUMNS
- 29. EXPOSED FOUNDATIONS WALLS SHALL HAVE EXPANSION JOINTS LOCATED AT EVERY FOURTH CONTROL/CONTRACTION JOINT. SEE CONCRETE DETAILS FOR SPECIFIC CONSTRUCTION REQUIREMENTS.
- 30. CONSTRUCTION JOINTS SHALL BE LOCATED AT CONTROL JOINTS OR CONTRACTION JOINTS.
- 31. FLOOR SLAB CONTROL JOINTS SHALL FOLLOW THE INTENT SHOWN ON THE PLAN BUT SHALL NOT EXCEED AN ASPECT RATIO OF 1.5 TO 1.0. ALL REENTRANT CORNERS SHALL HAVE CONTROL JOINTS EXTENDING OUT FROM THE INSIDE CORNER. DEAD-END "T" CONTROL JOINTS INTO CONTINUOUS JOINTS SHALL BE AVOIDED.
- 32. PIPE SLEEVES OVER 1-1/2" WHICH PASS THROUGH CONCRETE WALLS OR SLABS SHALL BE SCHEDULE 40 GALVANIZED STEEL PIPE. ALL OTHER SLEEVES SHALL BE 18 GAUGE SHEET METAL. SLEEVES SHALL BE ONE SIZE LARGER THAN OUTSIDE DIAMETER OF PIPE PASSING THROUGH SLEEVE. VERIFY SIZE AND NUMBER WITH MECHANICAL, ELECTRICAL, AND PLUMBING CONTRACTORS.
- 33. ALUMINUM CONDUIT SHALL NOT BE EMBEDDED IN CONCRETE.

# STEEL CONSTRUCTION:

- 1. STRUCTURAL STEEL DESIGN AND FABRICATION SHALL BE IN ACCORDANCE WITH THE AISC ASD 13TH EDITION STEEL MANUAL.
- 2. W-SHAPES SHALL CONFORM TO ASTM A992 (Fy = 50 ksi).
- 3. PLATE STEEL SHALL CONFORM TO ASTM A36 (Fy = 36 KSI).
- 4. ALL SQUARE AND RECTANGULAR HSS SHALL CONFORM TO ASTM A500, GRADE B (Fy = 46 KSI).
- 5. ALL ROUND HSS WITH A WALL THICKNESS LESS THAN OR EQUAL TO 5/8" SHALL CONFORM TO ASTM A500, GRADE B (Fy = 46
- 6. ALL SQUARE AND ROUND BARS SHALL CONFORM TO ASTM A36 (Fy = 36 KSI).
- 7. THE STRUCTURAL STEEL FABRICATOR SHALL BE RESPONSIBLE FOR THE SELECTION, DESIGN AND DETAILING OF ALL CONNECTIONS NOT FULLY DETAILED ON THE CONTRACT DRAWINGS.

- 8. CONNECTION DETAILS ARE INDICATED ON THE DRAWINGS FOR DESIGN INTENT ONLY. WHEN BOLTS ARE SHOWN ON SPECIFIC DETAILS, UNLESS THE NUMBER OF BOLTS IS SHOWN NUMERICALLY, USE GRAPHICAL REPRESENTATION FOR DESIGN CONCEPT ONLY.
- 9. WHERE MOMENT CONNECTIONS ARE INDICATED, PROVIDE CONNECTION TO DEVELOP FULL MOMENT CAPACITY OF WEAKER SECTION TO BE CONNECTED, UNLESS A SPECIFIC VALUE IS SHOWN.
- 10. ALL SHEAR CONNECTIONS NOT SPECIFICALLY DETAILED ON THE DRAWING SHALL BE SELECTED AND DETAILED BY THE FABRICATOR. ALL CONNECTIONS SHALL BE SELECTED FROM AISC ASD LOAD TABLES TO SUPPORT MAXIMUM LOADS SHOWN ON DRAWINGS OR FOR THE FULL UNIFORM LOAD CAPACITY OF THE MEMBER PER AISC. DOUBLE ANGLE CONNECTIONS ARE PREFERRED WHEN
- 11. ALL GALVANIZED MEMBERS SHALL BE GALVANIZED BY THE "DRY GALVANIZING PROCESS" AS DEFINED BY AGA (FLUX AND GALVANIZING APPLIED IN SEPARATE STEPS). PROVIDE ALTERNATE COST TO GALVANIZE PER THE "WET" METHOD (FLUX AND GALVANIZING IN ONE STEP). GALVANIZED MEMBERS SHALL NOT BE QUENCH COOLED.
- 12. ALL HOLLOW ENCLOSED STEEL MEMBERS SHALL HAVE WEEP HOLES AS REQUIRED. HOLES SHALL BE LOCATED IN THE CENTER OF THE LONGER WALLS OF RECTANGULAR TUBES AND PLACED TO FACE THE INSIDE OR AWAY FROM PUBLIC VIEW WHEN POSSIBLE. INDICATE WEEP HOLE LOCATIONS ON SHOP DRAWINGS.
- 13. ALL CONNECTION BOLTING IS TO BE WITH  $\frac{3}{4}$ "  $\phi$  A-325N BOLTS UNLESS NOTED OTHERWISE. BOLTS NEED ONLY BE TIGHTENED TO THE SNUG-TIGHT CONDITION. SNUG-TIGHT IS DEFINED AS THE TIGHTNESS OBTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A PERSON USING AN ORDINARY SPUD WRENCH.
- 14. ALL CONNECTIONS BOLTING DENOTED AS SLIP CRITICAL "SC" SHALL BE FULLY TIGHTENED BOLTS WITH HARDENED WASHERS. SECTIONS CONNECTED WITH SLIP CRITICAL CONNECTIONS SHALL NOT BE PRIMED OR PAINTED PRIOR TO INSTALLATION. LOAD INDICATOR BOLTS ARE REQUIRED FOR ALL SC CONNECTIONS.
- 15. STUD ANCHORS ARE TO BE NELSON STUDS OR EQUIVALENT.
- 16. ALL WELDING OF NEW STEEL TO BE WITH E70XX ELECTRODES.
- 17. ALL WELDING SHALL COMPLY WITH THE AWS STRUCTURAL WELDING CODES. ALL WELDING TO BE PERFORMED BY AWS PRE-QUALIFIED WELDERS CERTIFIED FOR THE GIVEN APPLICATION.
- 18. ALL WELDING OF GALVANIZED MATERIAL SHALL BE PERFORMED IN SUCH A MANOR AS TO SATISFY ALL OSHA AND AWS REQUIREMENTS. ALL FIELD WELDED LOCATIONS SHALL BE PREPARED AND PRIMED WITH A ZINC RICH PRIMER PRIOR TO PAINTING PER THE MANUFACTURER'S RECOMMENDATIONS. THE SPECIFIC PRIMER TO BE USED SHALL BE TNEMEC SERIES 90-97 Tneme-Zinc @ 3.0-4.0 mils DFT OR APPROVED EQUAL.
- 19. ALL EXTERIOR EXPOSED STEEL SHALL BE PRIMED WITH A ZINC RICH PRIMER AND PAINTED WITH AN APPROPRIATE EXTERIOR PAINT. ALL PAINTING AND STEEL PREP SHALL BE IN CONFORMANCE WITH THE MANUFACTURES SPECIFICATIONS.
- 20. SUBMIT PRODUCT DATA FOR EACH TYPE OF PRODUCT SPECIFIED. SUBMIT MIL TEST REPORTS SIGNED BY MANUFACTURES CERTIFYING THAT THEIR PRODUCTS COMPLY WITH REQUIREMENTS.
- 21. SUBMIT SHOP DRAWINGS DETAILING FABRICATION OF STRUCTURAL STEEL COMPONENTS

# COLD-FORMED STEEL:

- STUDS LISTED ARE MINIMUM SIZES AND ARE TO BE USED ONLY AS AN AID IN BIDDING. EXACT SIZES AND SPACINGS OF ALL COLD-FORMED METAL FRAMING SHALL BE DETERMINED BY THE COLD-FORMED FRAMING DESIGNER. SHOP DRAWINGS AND SUPPORTING CALCULATIONS SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER IN THE STATE OF WISCONSIN. SEE COLD-FORMED METAL FRAMING NOTES FOR ADDITIONAL INFORMATION
- 2. THE COLD-FORMED METAL FRAMING SHALL BE COMPLETELY DESIGNED AND SUPPLIED BY THE CONTRACTOR FOR ALL GRAVITY, LATERAL, AND OTHER LOADS INDUCED BY THE BUILDING MATERIALS SHOWN ON THE PROJECT DRAWINGS, AND THE DESIGN LOADS APPLIED IN ACCORDANCE WITH THE BUILDING CODE LISTED IN THE DESIGN DATA.
- 3. MEMBER SECTION PROPERTIES AND ALLOWABLE STRESSES SHALL BE CALCULATED IN ACCORDANCE WITH THE PROVISIONS OF THE LATEST EDITION OF THE A.I.S.I. "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS."
- 4. SHOP DRAWINGS AND SUPPORTING CALCULATIONS FOR THE COLD-FORMED METAL FRAMING SYSTEM, INCLUDING ALL STUDS, JOISTS, HEADERS, JAMBS, SILLS, AND ASSOCIATED CONNECTION DETAILS, SHALL BE SEALED & SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF WISCONSIN.
- 5. HEADERS AND JAMBS AT OPENINGS MAY CONSIST OF BUILT-UP COLD-FORMED METAL SECTIONS OR HOT ROLLED STEEL SECTIONS (TUBES, ANGLES, ETC.) SOME CONDITIONS MAY NECESSITATE HOT-ROLLED STEEL SECTIONS, AND ARE TO BE SUPPLIED AND INSTALLED BY THE COLD-FORMED METAL CONTRACTOR.
- 6. MECHANICAL BRIDGING SHALL BE INSTALLED PRIOR TO THE ATTACHMENT OF FACING MATERIALS AND SHALL BE SECURED IN A MANNER TO PREVENT STUD ROTATION AND BE SPACED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. MAXIMUM SPACING SHALL BE 6'-0" ON CENTER FOR LATERALLY LOADED WALLS AND 4'-0" ON CENTER FOR AXIALLY LOADED WALLS.
- 7. PROVIDE WEB STIFFENERS AT HORIZONTAL AND VERTICAL REACTION POINTS.
- 8. PROVIDE ALL HORIZONTAL AND VERTICAL ATTACHMENT MECHANISMS WHERE REQUIRED.
- 9. PROVIDE JACK STUDS OR CRIPPLES BELOW WINDOW SILLS, AND ABOVE WINDOW AND DOOR HEADS. THESE SHALL BE SECURELY ATTACHED TO SUPPORTING MEMBERS.
- 10. ALL WELDING SHALL BE PERFORMED BY AWS D1.3 CERTIFIED WELDERS IN ACCORDANCE WITH THE PROVISIONS OF THE LATEST EDITION OF AWS D1.3, "SPECIFICATIONS FOR WELDING SHEET STEEL IN STRUCTURES."
- 11. TEMPORARY BRACING SHALL BE PROVIDED AND REMAIN IN PLACE UNTIL THE STRUCTURE IS COMPLETELY STABILIZED. PRIOR TO ATTACHMENT OF WALL SHEATHING, PROVIDE TEMPORARY BRACING TO RESIST BUCKLING OF LOAD-BEARING STUDS, TEMPORARY X-BRACING TO RESIST LATERAL WIND AND SEISMIC LOADS AND ANY OTHER TEMPORARY BRACING DEEMED NECESSARY DURING CONSTRUCTION. TEMPORARY BRACING IS THE RESPONSIBILITY OF THE COLD-FORMED METAL INSTALLER.
- 12. ALL FIELD CUTTING OF STUDS MUST BE DONE BY SAWING OR SHEARING. TORCH CUTTING OF COLD-FORMED MEMBERS IS UNACCEPTABLE.
- 13. STUDS SHALL NOT DEVIATE FROM PLUMB, LEVEL AND TRUE TO LINE OF 1/8" IN 10'-0" OR IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- 14. MAXIMUM DEFLECTIONS FOR STUDS BACKING UP EXTERIOR BUILDING SKIN MATERIALS SHALL BE LIMITED TO THE FOLLOWING: BRICK / STONE L/360 EIFS / STUCCO
- METAL PANELS / WOOD SIDING L/240 15. ALL COLD-FORMED METAL FRAMING SHALL CONFORM TO:
  - PAINTED SECTIONS: 10, 12, 14 & 16 GA A570 Fy=50,000 PSI Fy=33,000 PSI PAINTED SECTIONS: 18 & 20 GA - A611 GD C GALVANIZED SECTIONS: 10, 12, 14 & 16 GA - A446 GD D Fy=50,000 PSI GALVANIZED SECTIONS: 18 & 20 GA - A446 GD A Fy=33,000 PSI
- 16. REFER TO PLANS AND DETAILS FOR GAUGE AND SIZE REQUIREMENTS OF COLD-FORMED METAL FRAMING MEMBERS.
- 17. ALL FRAMING PRODUCTS SHALL BE FORMED FROM STEEL POSSESSING A COATING CORRESPONDING TO THE MINIMUM REQUIREMENTS OF ASTM C955.
- 18. ALL SIDE CLIPS, SUPPORT CLIPS, AND CLIP ANGLES ARE 50 ksi, UNLESS NOTED OTHERWISE.
- 19. NOMENCLATURE: CONFORMS TO SSMA STANDARDS, PRODUCT TECHNICAL INFORMATION, PAGE 5 (www.SSMA.com), FOR "GENERIC" FRAMING MANUFACTURER.
- 20. GALVANIZING: ALL FRAMING TO BE GALVANIZED, G60 COATING MINIMUM, UNLESS NOTED OTHERWISE.
- 21. SUGGESTED WELD METAL AND PROCESS FOR SHOP WELDING ARE: 60 ksi WELD MATERIAL STRENGTH (MINIMUM). SUGGESTED METHODS FOR FIELD WELDING: 1/8" UNLESS NOTED OTHERWISE, E60XX (MINIMUM) ELECTRODE- SMAW - OR "GASLESS" MIG. MINIMUM WELD THROAT THICKNESS (t) MUST MATCH OR EXCEED THE BASE STEEL THICKNESS OF THE THINNEST CONNECTED PART UNLESS NOTED OTHERWISE.
- 22. ZINC RICH PAINT: FOR WELD TOUCH-UP USE PAINT 20 TYPE II ORGANIC ZINC RICH.
- 23. FASTENERS: SHALL BE CORROSION-RESISTANT CADMIUM OR ZINC PLATED SCREWS, NUTS, BOLTS, WASHERS AND OTHER FASTENERS.

- 24. UNLESS NOTED OTHERWISE, REFER TO LITERATURE PUBLISHED BY HILTI FASTENING SYSTEMS, INC. FOR EXPANSION BOLT, OR POWDER ACTUATED FASTENER (P.A.F.) INFORMATION, AND ITW BUILDEX, INC. FOR TEKS SCREW DATA. ALTERNATE MANUFACTURER'S FASTENERS OF COMPARABLE SPECIFICATIONS AND LOAD CAPACITIES ARE ACCEPTABLE WITH APPROVAL. ALL FASTENER'S SUBJECT TO TENSION SHALL HAVE 15MM (MINIMUM) DIAMETER STEEL WASHERS.
- 25. ALL CONCRETE SCREW FASTENERS SHALL BE THOSE AS MANUFACTURED AND TESTED BY TAPCON CONCRETE ANCHORS OR APPROVED EQUAL, OR AS INDICATED ON THE DRAWINGS.

# PRE-ENGINEERED, PRE-FABRICATED COLD-FORMED STEEL ROOF TRUSSES:

- 1. ALL LIGHT GAGE STEEL SHALL BE PERFORMANCE DESIGNED PER THE SPECIFICATIONS OF THE LATEST EDITION OF THE AMERICAN IRON AND STEEL INSTITUTE (AISI) NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, INCLUDING SUPPLEMENTS.
- PROPORTION LOADS PER THE LATEST EDITION OF THE WISCONSIN ENROLLED COMMERCIAL BUILDING CODE BASED ON THE INTERNATIONAL BUILDING CODE.
- 3. PROVIDE METAL STUDS, ROOF TRUSSES, AND JOISTS AS INDICATED ON THE STRUCTURAL AND ARCHITECTURAL DRAIWNGS, AS
- 3.1. STRUCTURAL PERFORMANCE: DESIGN, FABRICATE, AND ERECT COLD-FORMED STEEL TRUSSES TO WITHSTAND SPECIFIED DESIGN LOADS WITHIN LIMITS AND UNDER CONDITIONS REQUIRED. DESIGN LOADS: AS SPECIFIED.
- DEFLECTIONS: AS SPECIFIED. 3.2. DESIGN FRAMING SYSTEMS TO PROVIDE FOR MOVEMENT OF FRAMING MEMBERS WITHOUT DAMAGE OR OVERSTRESSING, SHEATHING FAILURE, CONNECTION FAILURE, UNDUE STRAIN ON FASTENERS AND ANCHORS, OR OTHER DETRIMENTAL EFFECTS WHEN SUBJECT TO A MAXIMUM AMBIENT TEMPERATURE CHANGE (RANGE) OF 120 DEG F (67 DEG C).
- SUBMIT DETAILED ROOF TRUSS LAYOUTS INDICATING PLACEMENT OF TRUSSES. SUBMIT INDIVIDUAL TRUSS DRAWINGS, SEALED AND SIGNED BY A QUALIFIED REGISTERED PROFESSIONAL ENGINEER, VERIFYING
  - ACCORDANCE WITH LOCAL BUILDING CODE AND DESIGN REQUIREMENTS. INCLUDE: DESCRIPTION OF DESIGN CRITERIA.
    - ENGINEERING ANALYSIS DEPICTING MEMBER STRESSES AND TRUSS DEFLECTION. TRUSS MEMBER SIZES AND THICKNESS AND CONNECTIONS AT TRUSS JOINTS. TRUSS SUPPORT REACTIONS.
  - TOP CHORD, BOTTOM CHORD AND WEB BRACING REQUIREMENTS. SUBMIT FINAL ROOF AND FLOOR PLAN DRAWINGS SEALED AND SIGNED BY A QUALIFIED REGISTERED PROFESSIONAL ENGINEER DEPICTING FINAL INSTALLED TRUSS ASSEMBLY. INCLUDE:
    - ALL TRUSS TO TRUSS CONNECTIONS

SPECIFIED HEREIN, AND AS NEEDED FOR A COMPLETE AND PROPER INSTALLATION.

ALL TRUSS TO STRUCTURE (BEARING) CONNECTIONS PLAN AND DETAILS FOR THE LOCATION OF ALL PERMANENT LATERAL AND DIAGONAL BRACING AND/OR BLOCKING REQUIRED IN THE TOP CHORD, WEB, AND BOTTOM CHORD PLANES.

FASTENINGS:

HEADER WHICHEVER IS LESS.

- 4.1. FOR ALL CHORD AND WEB MEMBERS: FABRICATE COMPONENTS OF STRUCTURAL QUALITY STEEL SHEET PER ASTM A653 WITH
- A MINIMUM YIELD STRENGTH OF 50,000 PSI. 4.2. BRACING, BRIDGING AND BLOCKING MEMBERS: FABRICATE COMPONENTS OF COMMERCIAL QUALITY STEEL SHEET PER ASTM A653 WITH A MINIMUM YIELD STRENGTH OF 33,000 PSI.
- 5. FINISH: PROVIDE COMPONENTS WITH PROTECTIVE ZINC COATING COMPLYING WITH ASTM A653, MINIMUM G60 COATING.
- 6. PROVIDE MANUFACTURER'S STANDARD STEEL TRUSS MEMBERS, BRACING, BRIDGING, BLOCKING, REINFORCEMENTS, FASTENERS AND ACCESSORIES WITH EACH TYPE OF STEEL FRAMING REQUIRED, AS RECOMMENDED BY THE MANUFACTURER FOR THE APPLICATIONS INDICATED AND AS NEEDED TO PROVIDE A COMPLETE COLD-FORMED STEEL TRUSS ROOF OR FLOOR ASSEMBLY.

## 7.1. MANUFACTURER RECOMMENDED SELF-DRILLING SCREWS WITH CORROSION-RESISTANT PLATED FINISH. FASTENERS SHALL BE OF SUFFICIENT SIZE AND NUMBER TO ENSURE THE STRENGTH OF THE CONNECTION.

1. ALL WINDOW FRAMES SHALL BE INSTALLED TO ALLOW FOR A MINIMUM OF L/600 OR 1/2 INCH VERTICAL DEFLECTION OF THE

7.2. WELDING: COMPLY WITH AWS D1.1 WHEN APPLICABLE AND AWS D1.3 FOR WELDING BASE METALS LESS THAN 1/8" THICK.

- 2. ALL DRAWINGS ARE OF EQUAL IMPORTANCE IN DEFINING THE WORK OF THE CONTRACT DOCUMENTS. CONTRACTOR SHALL CAREFULLY REVIEW AND COMPARE ALL DRAWINGS DURING THE BIDDING PERIOD AND BEFORE INSTALLATION OF THEIR WORK. ANY
- 3. EVERY EFFORT HAS BEEN MADE TO PROVIDE TO SCALE DRAWINGS, HOWEVER THE DRAWINGS ARE NOT NECESSARILY TO SCALE -USE GIVEN DIMENSIONS.

INCONSISTENCIES IN THE DRAWINGS SHALL BE REPORTED PROMPTLY TO THE ENGINEER AND ARCHITECT FOR CLARIFICATION.

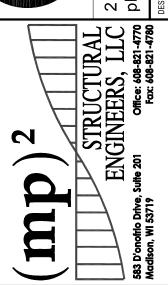
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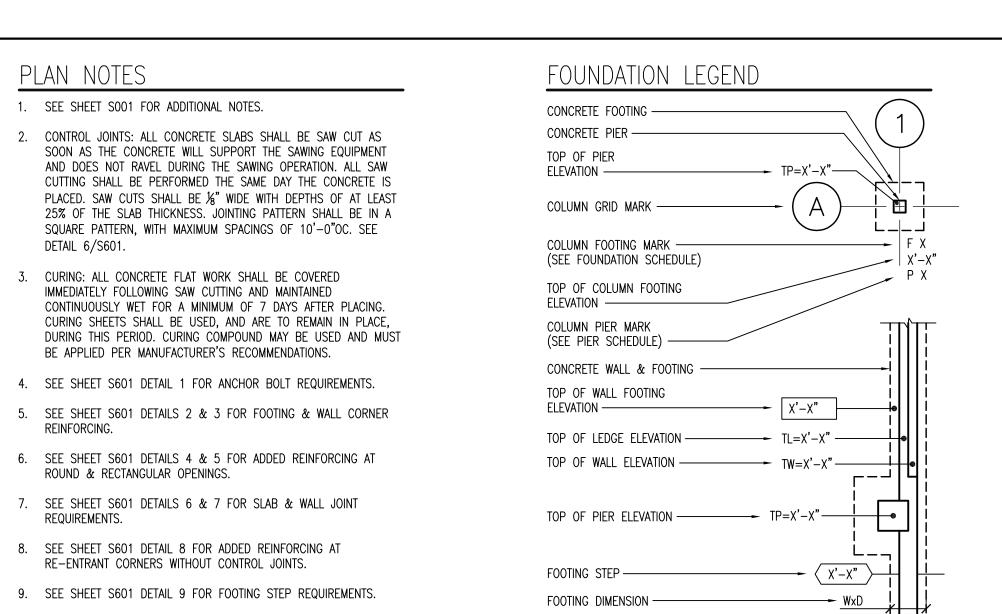
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**ISSUANCES:** 12.21.2012 PROJECT NUMBER: 120410.00 12.21.2012 DATE: REV:



EXPANSION JOINT-SEE NOTES FOR WALL CONTROL JOINT SPACING -

10. TOP OF FOOTING ELEVATION = 96'-0" UNO.

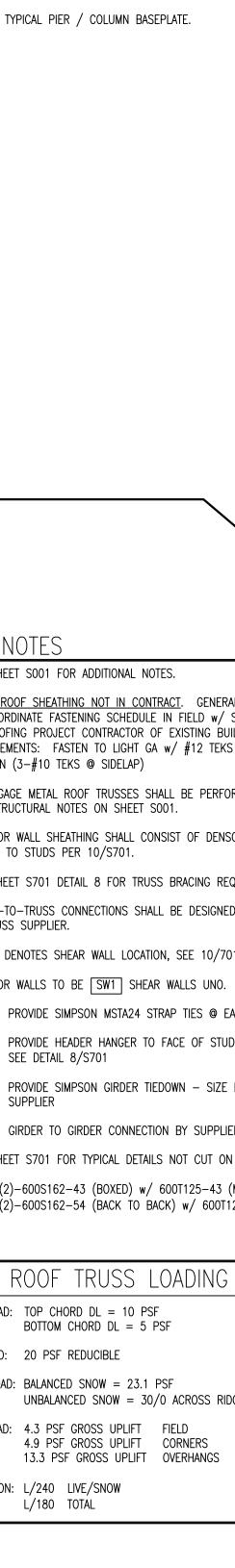
½% PAB7 ANCHOR BOLT.

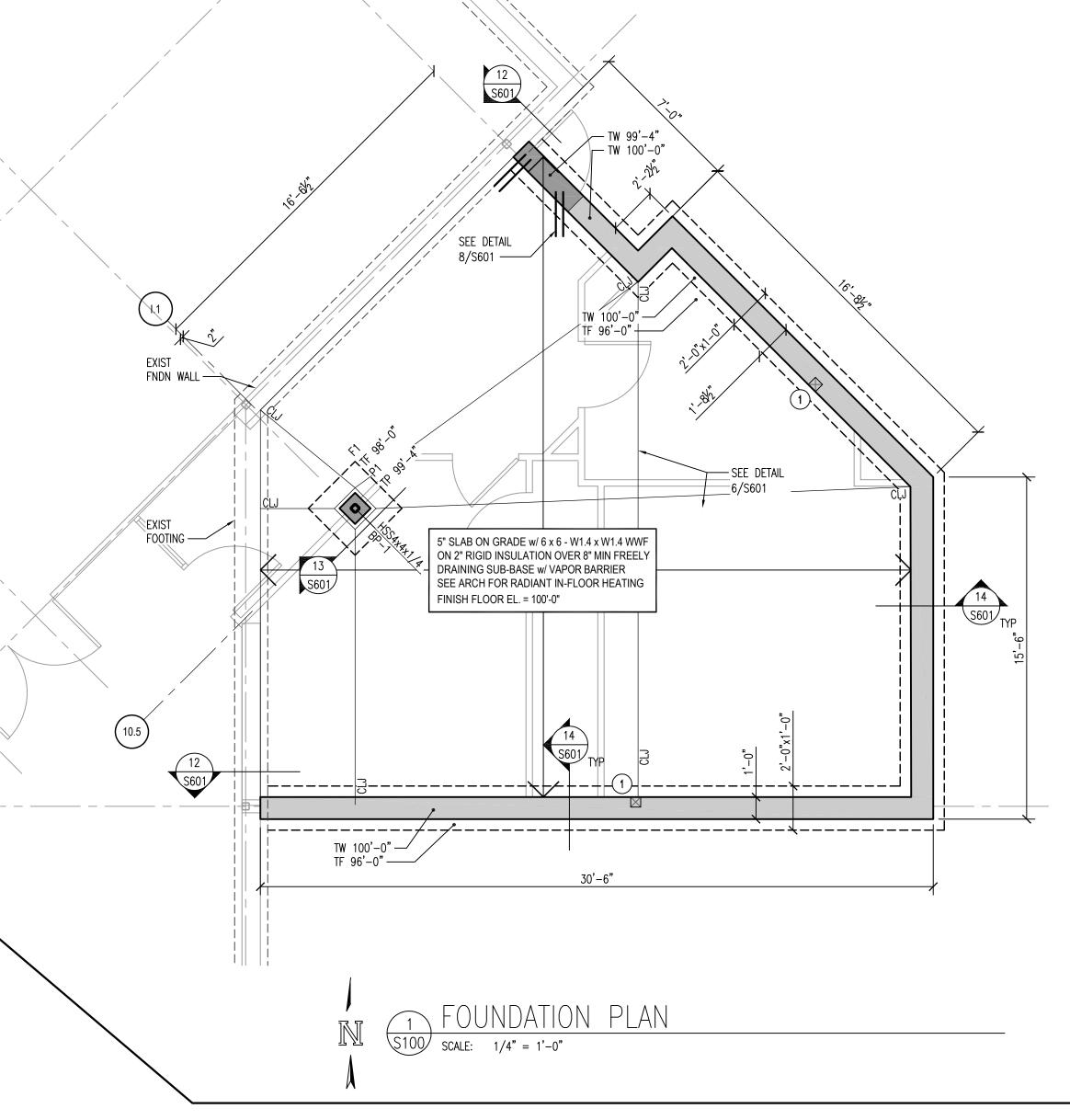
11. (1) - PROVIDE SIMPSON S/HDU9 HOLDOWN @ BASE w/

FOOTING SCHEDULE							
FOOTING MARK	FOOTING DIMENSION (W x L x D)	FOOTING REINFORCING EACH WAY, BOTTOM					
F1	3'-0" x 3'-0" x 1'-0"	(3) #5's EW					
. CENTER	FOOTING UNDER COLUMN A	ND/OR PIER.					

PIER SCHEDULE									
	Ā	B	C	D					
PIER MARK	PIER DIMENSION (W x L)		PIER REINFO	RCING	TYPE	REMARKS			
P1	1'-0	" x 1'-0"	4-#6 VERT \ TIES @ 10		A	TP 99'-4" UNO			

- 1. CENTER PIER UNDER COLUMN <u>OR</u> UNDER BEAM BEARING UNLESS NOTED
- 2. SEE DETAIL 11/S6.1 FOR TYPICAL PIER / COLUMN BASEPLATE.





# COLD-FORMED METAL PRODUCT IDENTIFICATION

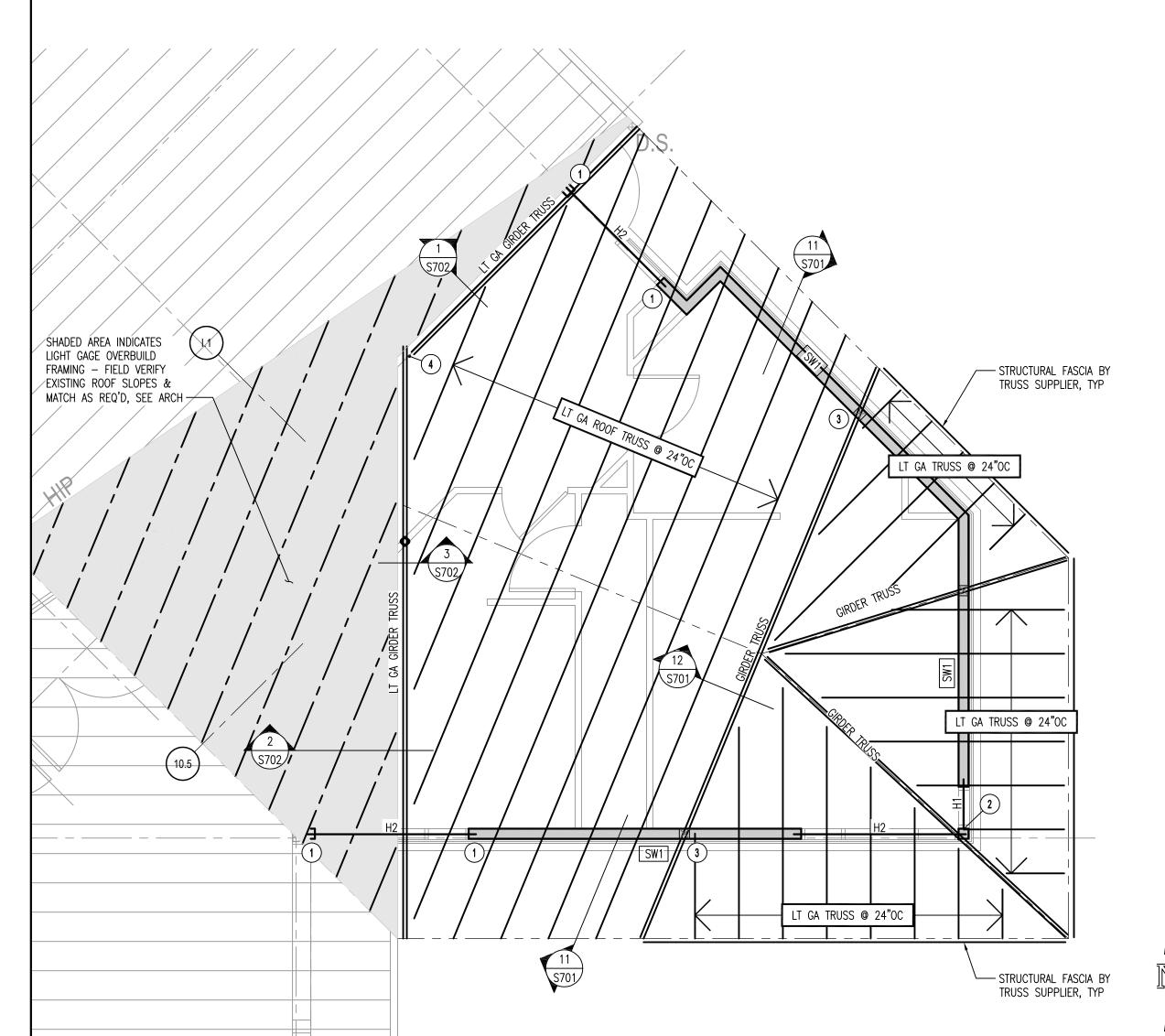
PRODUCT GEOMETRIES MUST MEET OR EXCEED THE MINIMUM PROPOSED BY THE STEEL STUD MANUFACTURERS ASSOCIATION FOR INDUSTRY STANDARDIZATION. FOR SSMA DESIGNATIONS SEE

<u>MEMBER</u>	R SECTION TA	ABLE			MEMB	BER THICKNESS TA	ABLE			
SECTION	SSMA IDENTIFICATION	FLANGE WIDTH		MILS	GAUGE	MINIMUM DELIVERED THICKNESS	DESIGN THICKNESS			
STUDS	\$137 \$162 \$200 \$250	1 ½" 1 ½" 2" 2 ½"		33 43 54 68	20 18 16 14	0.0329" 0.0428" 0.0538" 0.0677"	0.0346" 0.0451" 0.0566" 0.0713"			
TRACKS	T125 T200	1 1/4"		97 118	12 10	0.0966" 0.1180"	0.1017" 0.1242"			
	MEMBER DEPTH (WEB SIZE) TABLE  SSMA PRODUCT IDENTIFICATION									
SSMA IDENTIFICATIO 600	MEMBER DN DEPTH 6"		80	0S1 1	162- 1	$\frac{43}{1} \frac{(50ksi)}{1}$				
362 800 1000	3 5/8" 8" 10"	MEMBER SHAPE	R DEPTH —			MIL THICKNESS GF	ELD STRENGTH (IF REATER THAN 33ksi)			

# COLD FORMED METAL STUD FRAMING SCHEDULE

TIMINING SCHEDOLL							
WALL TYPE	STUD SIZE	TRACK					
EXTERIOR WALLS	600S162-43 @ 16"oc	600T125-43					
INTERIOR NON-LOAD BEARING WALLS	362S162-33 @ 24"oc MAX (SEE ARCH)	362T162-33					

- BEARING WALL SCHEDULE NOTES: 1. STUD SIZES, GAGES, AND SPACINGS SHOWN ARE MINIMUM VALUES. CONDITIONS AT HEADERS, JAMBS, ETC. WILL REQUIRE ADDITIONAL FRAMING AND IS TO BE ACCOUNTED FOR DURING BIDDING. COLD-FORMED METAL STEEL SUPPLIER TO VERIFY STUD SIZE, GAUGE & SPACING.
- 2. FOR CONDITIONS WHERE STUD SPACING DOES NOT MATCH ROOF TRUSS FRAMING SPACING, STRUCTURAL COLD-FORMED TOP TRACKS OR HOT-ROLLED STEEL SECTIONS SHALL BE USED TO TRANSFER OFFSET POINT LOADS, AND ARE TO BE DESIGNED, SUPPLIED, AND INSTALLED BY THE COLD-FORMED CONTRACTOR.
- 3. PROVIDE HORIZONTAL STRAP BLOCKING AT ALL SHEATHING EDGES. PROVIDE SOLID BLOCKING BETWEEN THE FIRST TWO END STUDS AND AT 10'-0" O.C. SEE DETAIL 10/S701 -SHEARWALL NOTES FOR ADDITIONAL REQUIREMENTS.



# 1. SEE SHEET S001 FOR ADDITIONAL NOTES.

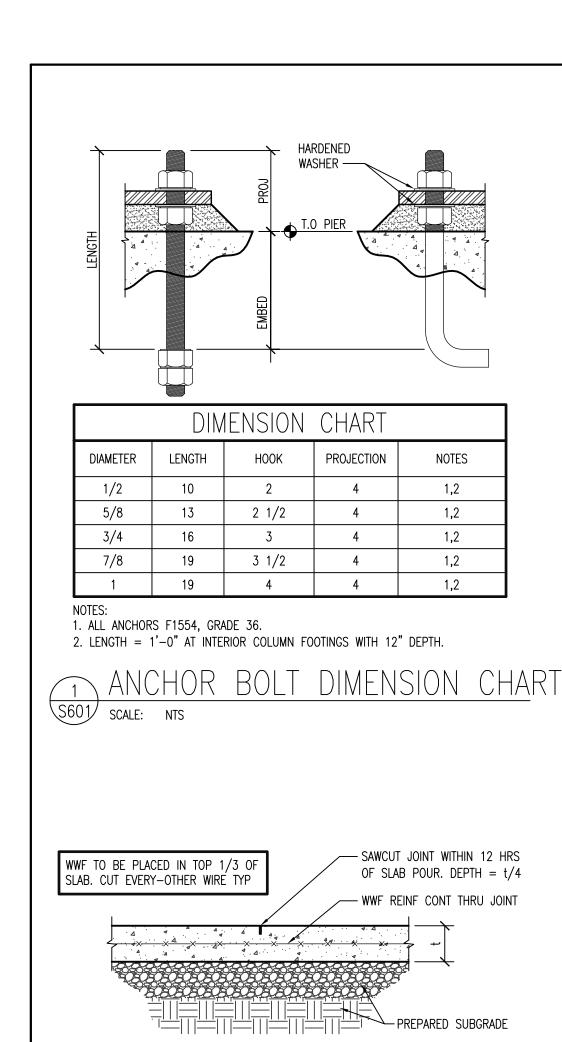
- 2. <u>METAL ROOF SHEATHING NOT IN CONTRACT</u>. GENERAL CONTRACTOR TO COORDINATE FASTENING SCHEDULE IN FIELD w/ SEPARATE RE-ROOFING PROJECT CONTRACTOR OF EXISTING BUILDING. MIN. REQUIREMENTS: FASTEN TO LIGHT GA w/ #12 TEKS IN 30/4 PATTERN (3-#10 TEKS @ SIDELAP)
- 3. LIGHT GAGE METAL ROOF TRUSSES SHALL BE PERFORMANCE DESIGNED PER STRUCTURAL NOTES ON SHEET SOO1.
- 4. EXTERIOR WALL SHEATHING SHALL CONSIST OF DENSGLASS, SEE ARCH. FASTEN TO STUDS PER 10/S701.
- 5. SEE SHEET S701 DETAIL 8 FOR TRUSS BRACING REQUIREMENTS.
- 6. TRUSS-TO-TRUSS CONNECTIONS SHALL BE DESIGNED AND SUPPLIED BY TRUSS SUPPLIER.
- 7. SWx DENOTES SHEAR WALL LOCATION, SEE 10/701.
- 8. EXTERIOR WALLS TO BE SW1 SHEAR WALLS UNO.
- 9. 1 PROVIDE SIMPSON MSTA24 STRAP TIES @ EA END OF HEADER
- 10. (2) PROVIDE HEADER HANGER TO FACE OF STUD BY SUPPLIER,
- 11. 3 PROVIDE SIMPSON GIRDER TIEDOWN SIZE BY TRUSS SUPPLIER
- 12. (4) GIRDER TO GIRDER CONNECTION BY SUPPLIER
- 13. SEE SHEET S701 FOR TYPICAL DETAILS NOT CUT ON PLAN.
- 14. H1 (2)-600S162-43 (BOXED) w/ 600T125-43 (MIN) 15. H2 - (2)-600S162-54 (BACK TO BACK) w/ 600T125-54 (MIN)

R	ROOF TRUSS LOADING
DEAD LOAD:	TOP CHORD DL = 10 PSF BOTTOM CHORD DL = 5 PSF
LIVE LOAD:	20 PSF REDUCIBLE
SNOW LOAD:	BALANCED SNOW = 23.1 PSF UNBALANCED SNOW = 30/0 ACROSS RIDGE
WIND LOAD:	4.3 PSF GROSS UPLIFT FIELD 4.9 PSF GROSS UPLIFT CORNERS 13.3 PSF GROSS UPLIFT OVERHANGS
DEFLECTION:	L/240 LIVE/SNOW L/180 TOTAL



ISSUANCES: 12.21.2012 PROJECT: 120410.00 NUMBER: 12.21.2012 DATE: REV:

**HEIN** Engineering Group



CONTROL JOINT

CONSTRUCTION JOINT

WWF TO BE PLACED IN TOP 1/3 OF

6 SLAB JOINTS S601 SCALE: 3/4"=1'-0"

SLAB. CUT EVERY-OTHER WIRE TYP

5/8" SMOOTH DOWEL BARS @

2'-0"OC. 8" EA WAY. GREASE

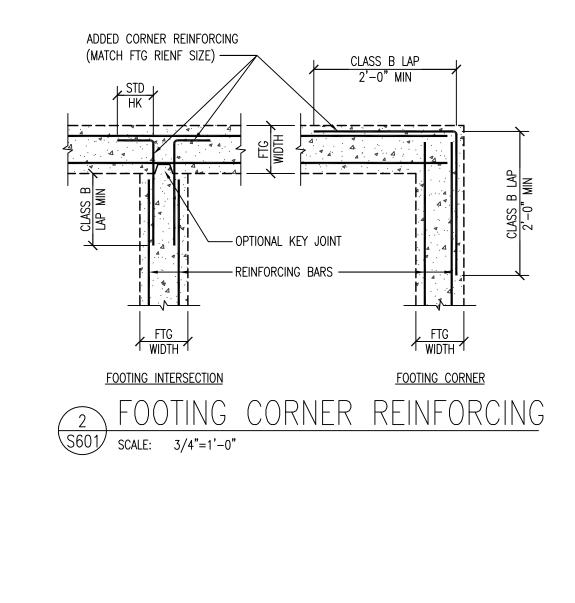
ONE END & CENTER ON SLAB

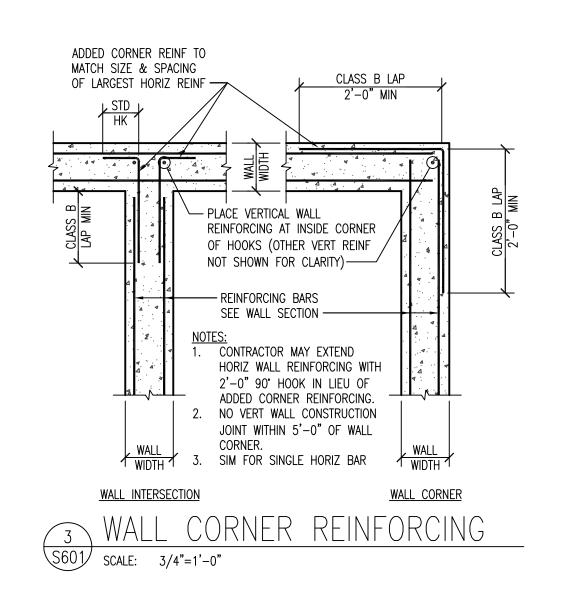
-PREPARED SUBGRADE

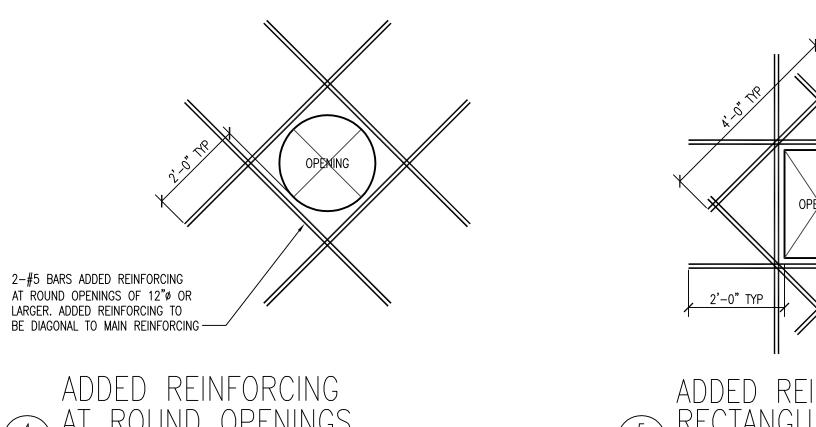
CONTRACTOR OPTION: SUBSTITUTE FIBERMESH 350 IN PLACE OF WWF

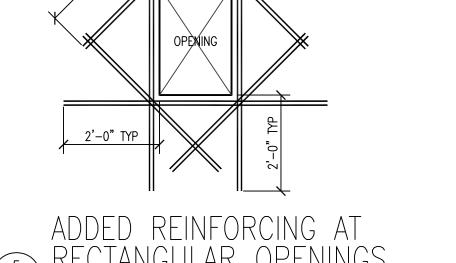
- WWF REINF DISCONTINUOUS

THRU JOINT







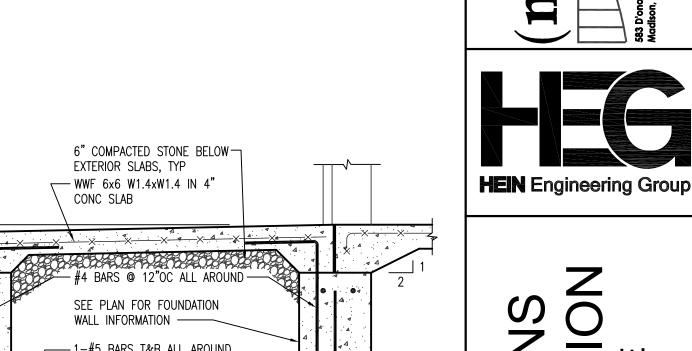


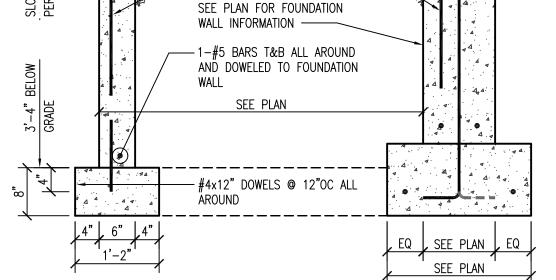
S601 SCALE: 1/2"=1'-0"

OPËNING (TYP FOR OPENINGS LARGER

THAN 12" SQUARE)

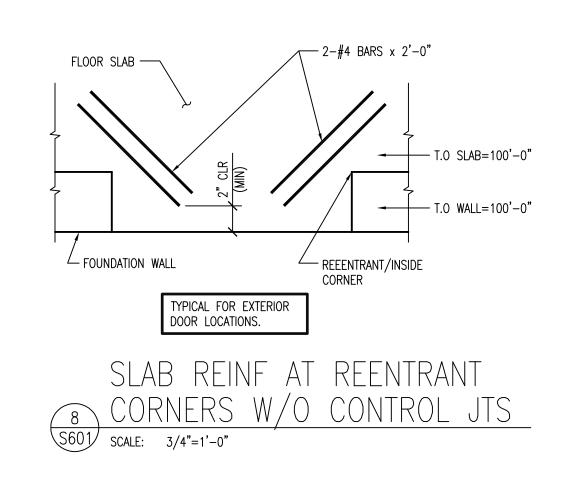
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STOOP AT DOOR/WINDOW
S601 SCALE: 3/4"=1'-0"

CAST WALL W/ JOIST INSER 3/4" x t/4  DO NOT PASS LONGITUDINA WALL REINF STEEL THRU JOHN BACK 3" EA SIDE —	L		JOINT SEALANT. TOOL SURFACE TO SMOOTH & FIRM INTO JOINT  PREFORMED ROUND BACKUP MATERIAL
REINFORCING CONCEPTUAL ONLY, SEE WALL SECTIONS FOR SIZE & SPACING	1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<u>y</u> "	#5 x 3'-0" SMOOTH DOWEL @ 16"OC GREASE ONE END
SEE PLAN & CONCRETE CONSTRUCTION NOTES FOR LOCATION REQUIREMENTS.  7  S601  SCALE: 3/4"=1'-0	)NTROL	JOIN	<u>IT</u>



CONC DIAMOND. FILL AROUND COL AFTER FLOOR

IS CAST & COLUMNS ARE

SEALANT (WHERE REQD)— PREFORMED JOINT FILLER-

ELASTROMETRIC JOINT

CARRYING FULL DEAD LOAD —

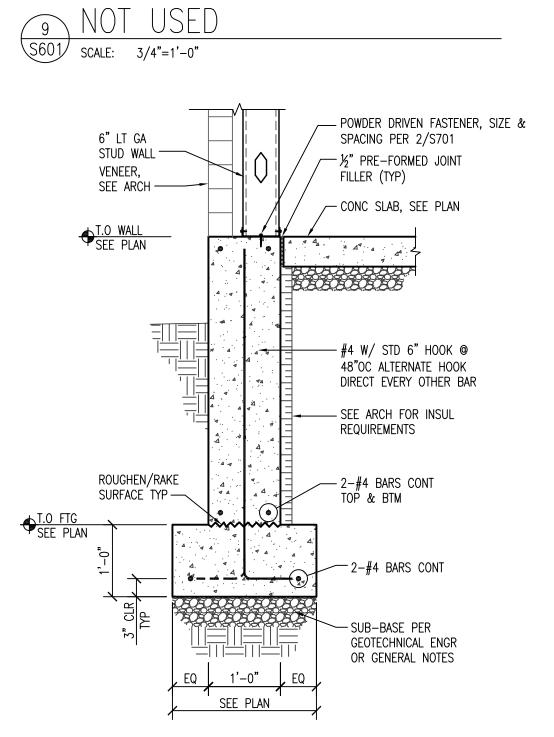
— COL, SEE PLAN

- ¾"ø ANCHOR BOLTS. SEE

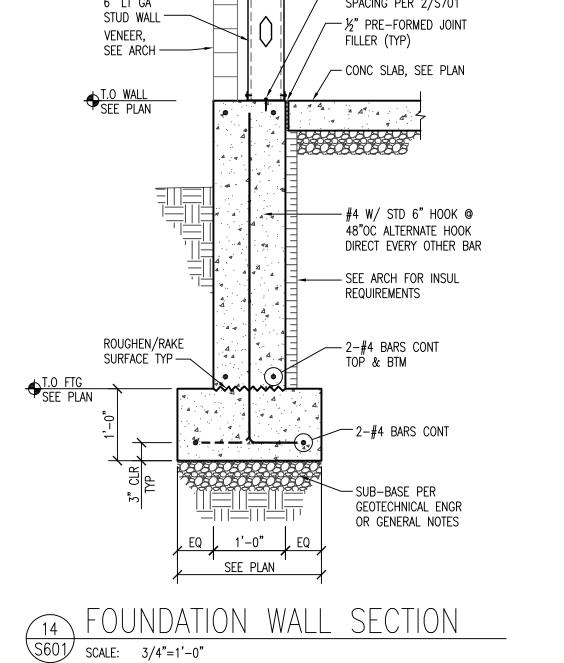
DETAIL 1/S601 FOR SPACING & LOCATION

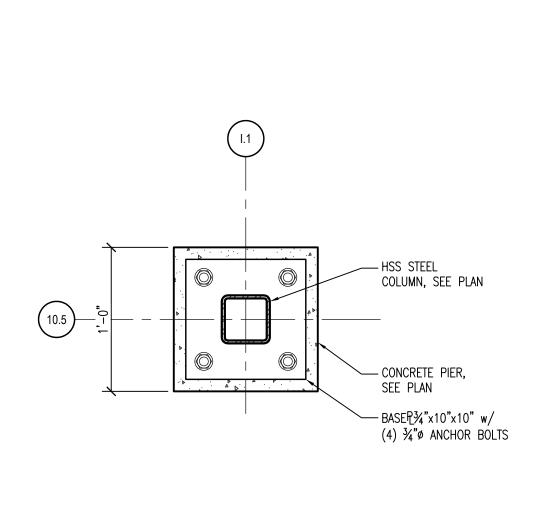
- 1½" NON-SHRINK NON-METALLIC GROUT

— 3-#3 TIES IN TOP 8"

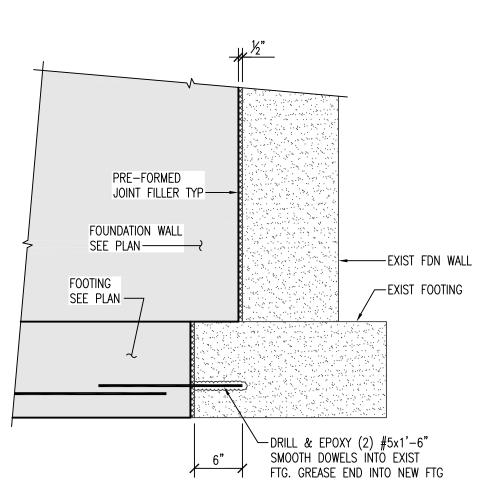


\$601 SCALE: 1/2"=1'-0"

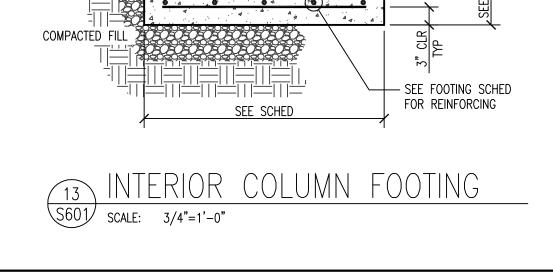


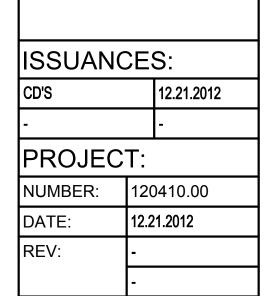


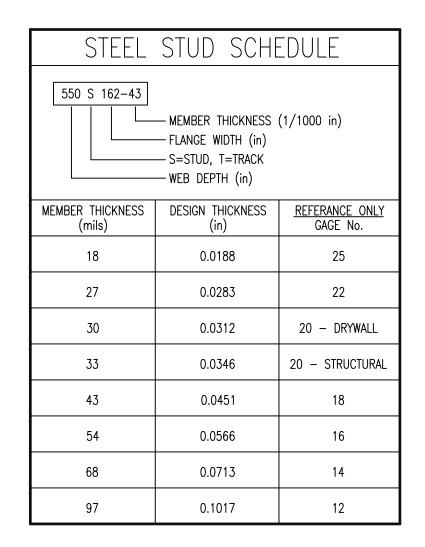














-FILL CAVITY WITH INSUL PRIOR TO ERECTION

CONNECTIONS ARE TO

BE (2) #10 @ 12"OC.

TRAČK TO STUDS ARE (2) #10 @ 24°OC

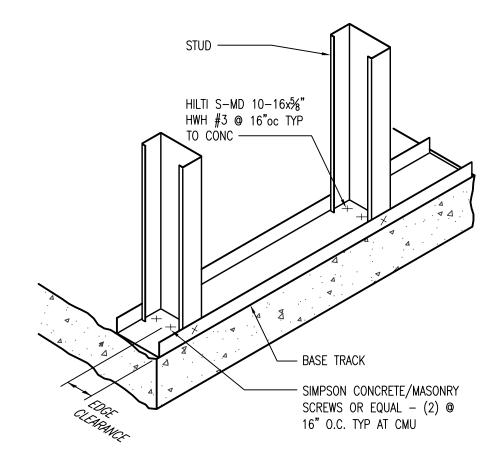
— STUD TO STUD

TYPICAL CORNER FRAMING

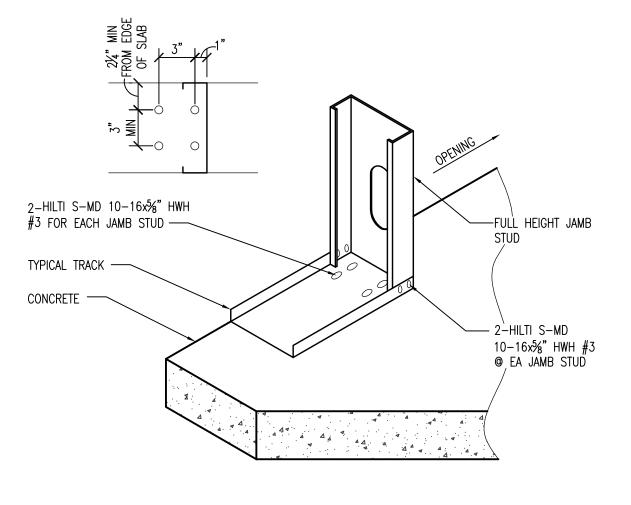
S701 SCALE: NTS

#10 x 1/2"

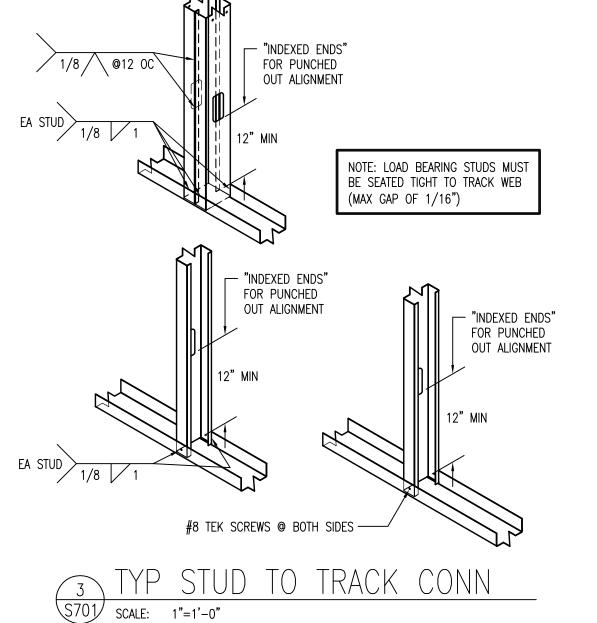
PAN HEAD -



BOTTOM TRACK ANCHORAGE \$701 SCALE: 1"=1'-0"



JAMB ANCHORAGE S701 SCALE: NTS



#10 TEK @ 12"OC-

SEE SECTIONS

%" METAL DECK NOT PART OF THIS PROJECT. DESIGNED, SUPPLIED

SEE ARCH.

AND INSTALLED BY OTHERS

EXT. SHEATHING

SEE ARCH. —

SCREWED HEADER

- COLD FORM ROOF TRUSSES, SEE

DESIGN BY SUPPLIER

SEE ARCH

PLAN FOR SPACING AND PROFILE,

-TRUSS TIE DOWN ANCHOR @ EACH TRUSS.

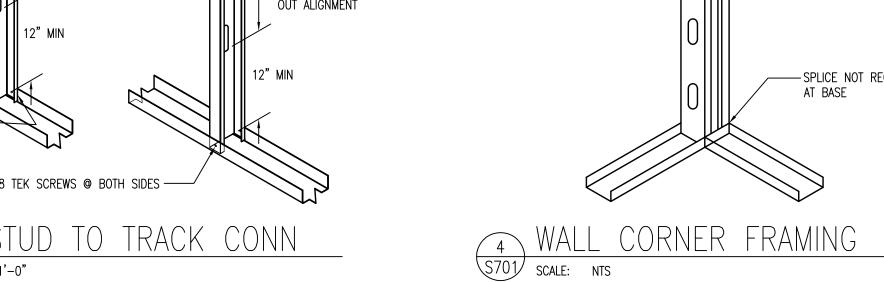
PROVIDE (2) SIMPSON H2.5 HURRICANE

TIES FOR FIRST 22' FROM BUILDING

CORNERS (ENDZONE, SEE PLAN)

6" LT GA STUD @ 16"oc

PROVIDE (1) SIMPSON H2.5 HURRICANE TIE

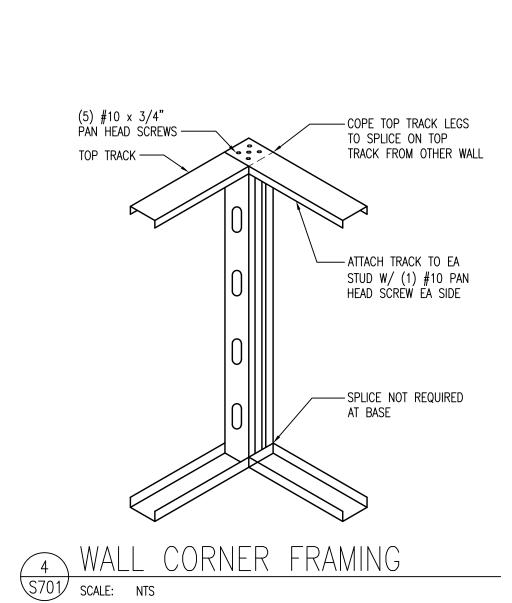


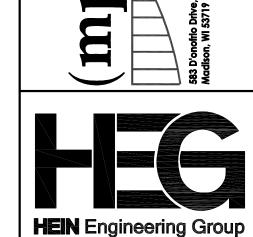
- DIETRICH S-SERIES CLIP TOP & BOT BY SUPPLIER

- DIETRICH H-SERIES HEADER HANGER BS BY SUPPLIER

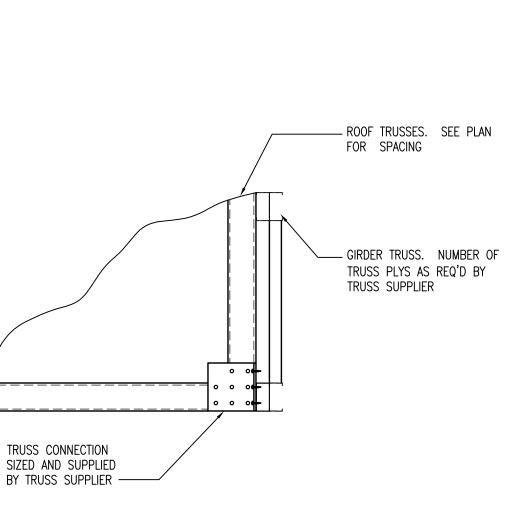
SEE ELEVATIONS

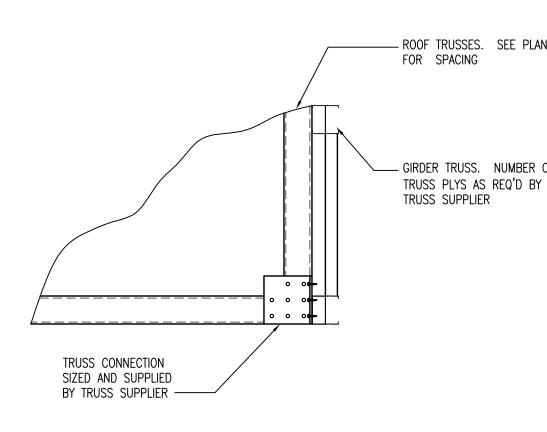
BOXED HEADER CONNECTION





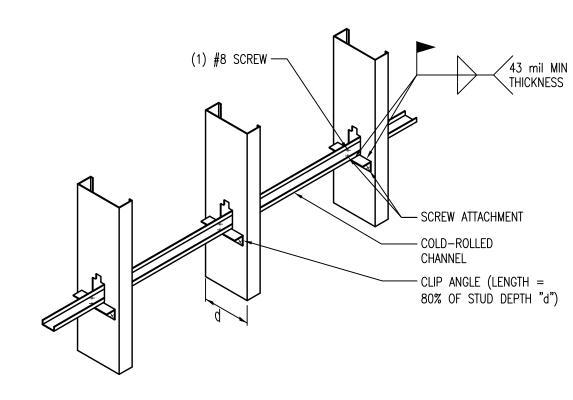




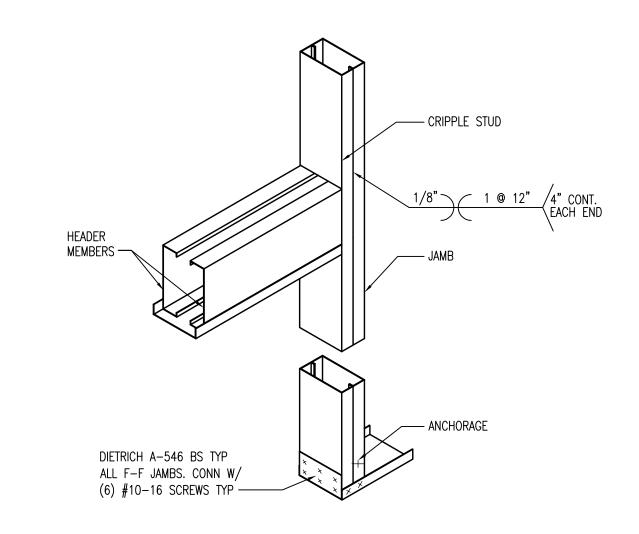


WELDED HEADER

TRUSS TO \$701\scale: 1"=1'-0"

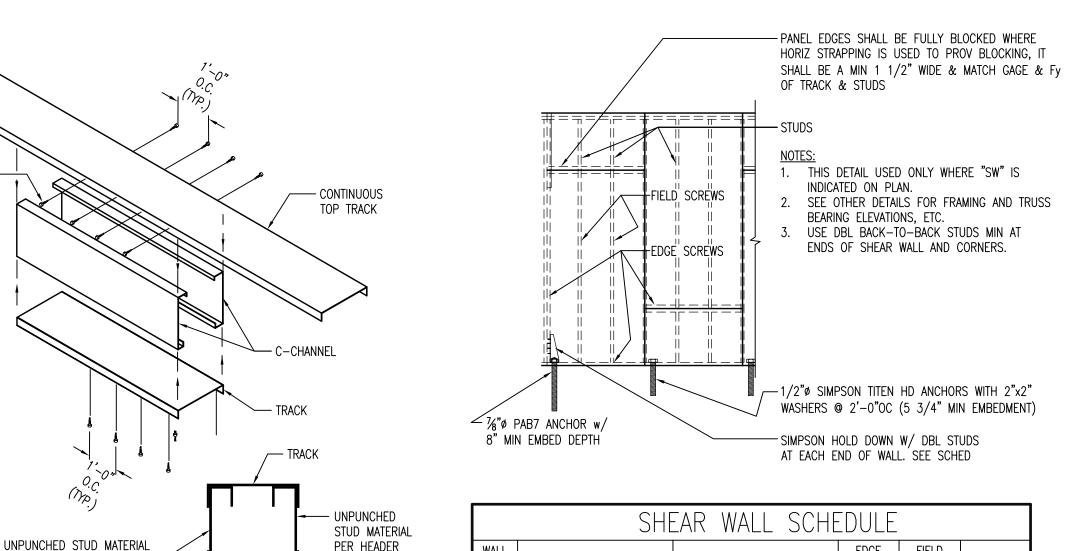


BRIDGING COLD-ROLLED CHANNEL WITH CLIP ANGLE S701 SCALE: 1"=1'-0"



# COLD-FORMED METAL SHEARWALL NOTES

- 1. ALL WALLS USED AS SHEAR WALLS FOR RESISTING WIND & SEISMIC LATERAL FORCES SHALL CONFORM TO THE FOLLOWING MINIMUM REQUIREMENTS PER THE WECBC 2002, SECTION 2211.
- 2. FOR SCREWED CONNECTIONS, SCREWS SHALL BE OF SUFFICIENT LENGTH TO PENETRATE THROUGH THE COLD-FORMED STEEL FRAMING MEMBER BY AT LEAST THREE EXPOSED
- 3. STUDS SHALL BE A MINIMUM 1  $\frac{1}{8}$ "x3  $\frac{1}{2}$ " WITH A  $\frac{3}{8}$ " RETURN LIP. AS A MINIMUM, STUDS SHALL BE DOUBLED (BACK TO BACK) AT SHEAR WALL ENDS.
- 4. TRACK SHALL BE A MINIMUM 1  $\frac{1}{4}$ "x3  $\frac{1}{2}$ ", SAME GAUGE AS STUD.
- 5. BOTH STUDS AND TRACK SHALL HAVE A MINIMUM UNCOATED BASE METAL THICKNESS OF 0.033 INCH (0.84mm) AND SHALL BE OF THE FOLLOWING GRADES OF STRUCTURAL QUALITY STEEL: ASTM A653 SS GRADE 33, ASTM A792 SS GRADE 33, OR ASTM A875 SS GRADE 33.
- 6. FASTENERS ALONG THE EDGES IN SHEAR PANELS SHALL BE PLACED NOT LESS THAN 3/8" IN FROM PANEL EDGES.
- 7. ALL PANEL EDGES SHALL BE FULLY BLOCKED. WHERE HORIZONTAL STRAPPING IS USED TO PROVIDE SUCH BLOCKING, IT SHALL BE A MINIMUM 1 1/2" WIDE AND OF THE SAME MATERIAL & THICKNESS AS THE TRACK & STUDS. PANELS LESS THAN 12" WIDE SHALL NOT BE USED.
- 8. GYPSUM BOARD PANEL SHEATHING: 8.1. LIGHT FRAMED COLD FORMED STEEL WALL SYSTEMS SHEATHED WITH GYPSUM BOARD ARE PERMITTED TO RESIST HORIZONTAL FORCES PROVIDED BY WIND.
- WALL IS TO BE SHEATHED BOTH SIDES OF WALL. GYPSUM BOARD SHALL BE APPLIED PERPENDICULAR TO STUDS IN ACCORDANCE WITH TABLE 2211.1(2). END JOINTS SHALL NOT OCCUR OVER THE SAME STUD.
- SCREWS USED TO ATTACH GYPSUM BOARD SHALL BE A MINIMUM OF NO. 6 IN ACCORDANCE WITH ASTM C 954, AND SHALL BE OF SUFFICIENT LENGTH TO PENETRATE INTO THE COLD FORMED STEEL FRAMING MEMBERS BY AT LEAST 3 EXPOSED THREADS.

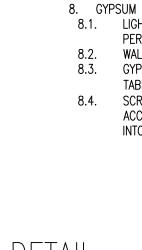


PER HEADER

SCHEDULE

	SHE	ear wall sche	EDULE		
WALL LOC	SHEATHING	FASTENER SIZE	EDGE SPACING	FIELD SPACING	HOLD DOWN
SW1	½" GYPSUM BOARD, BOTH SIDES OF WALL	#6x1" SELF-TAPPING w/ MIN 0.292"ø HEAD	4"0C	4"0C	SIMPSON S/HDU9





ROOF TRUSS BEARING DETAIL \$701 SCALE: 1"=1'-0"

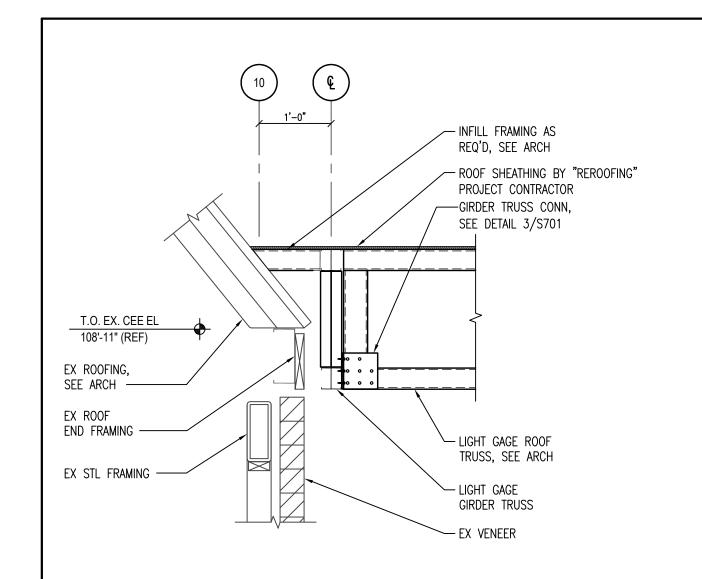
LEG UP AT BOXED COLUMN-S701 SCALE: NTS

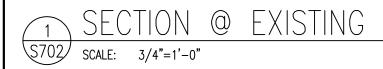
PER HEADER SCHEDULE ----

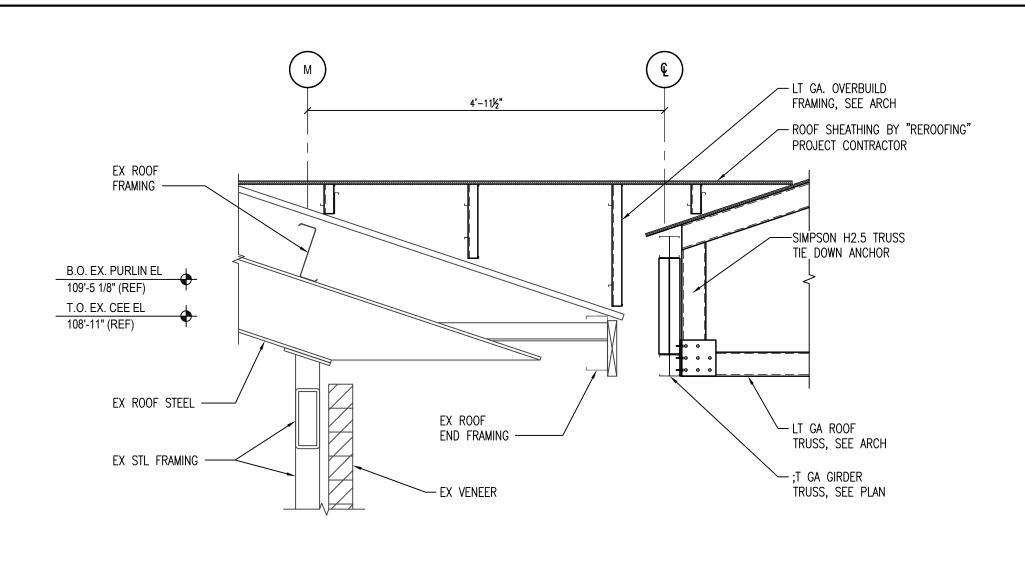
PROJECT: 120410.00 NUMBER: 12.21.2012 DATE: REV: SHEET:

12.21.2012

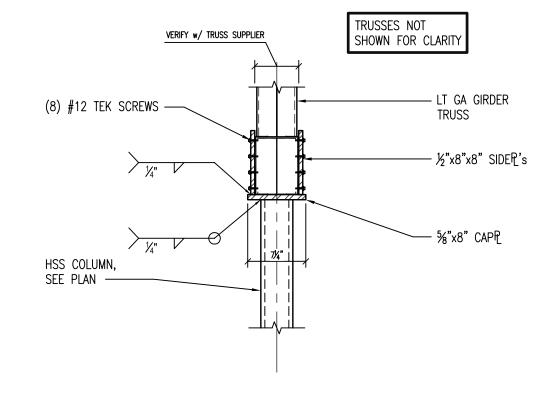
ISSUANCES:





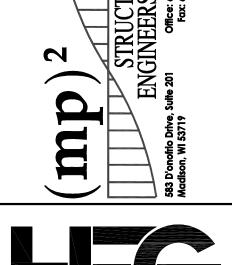


2 SECTION @ EXISTING \$702 SCALE: 3/4"=1'-0"









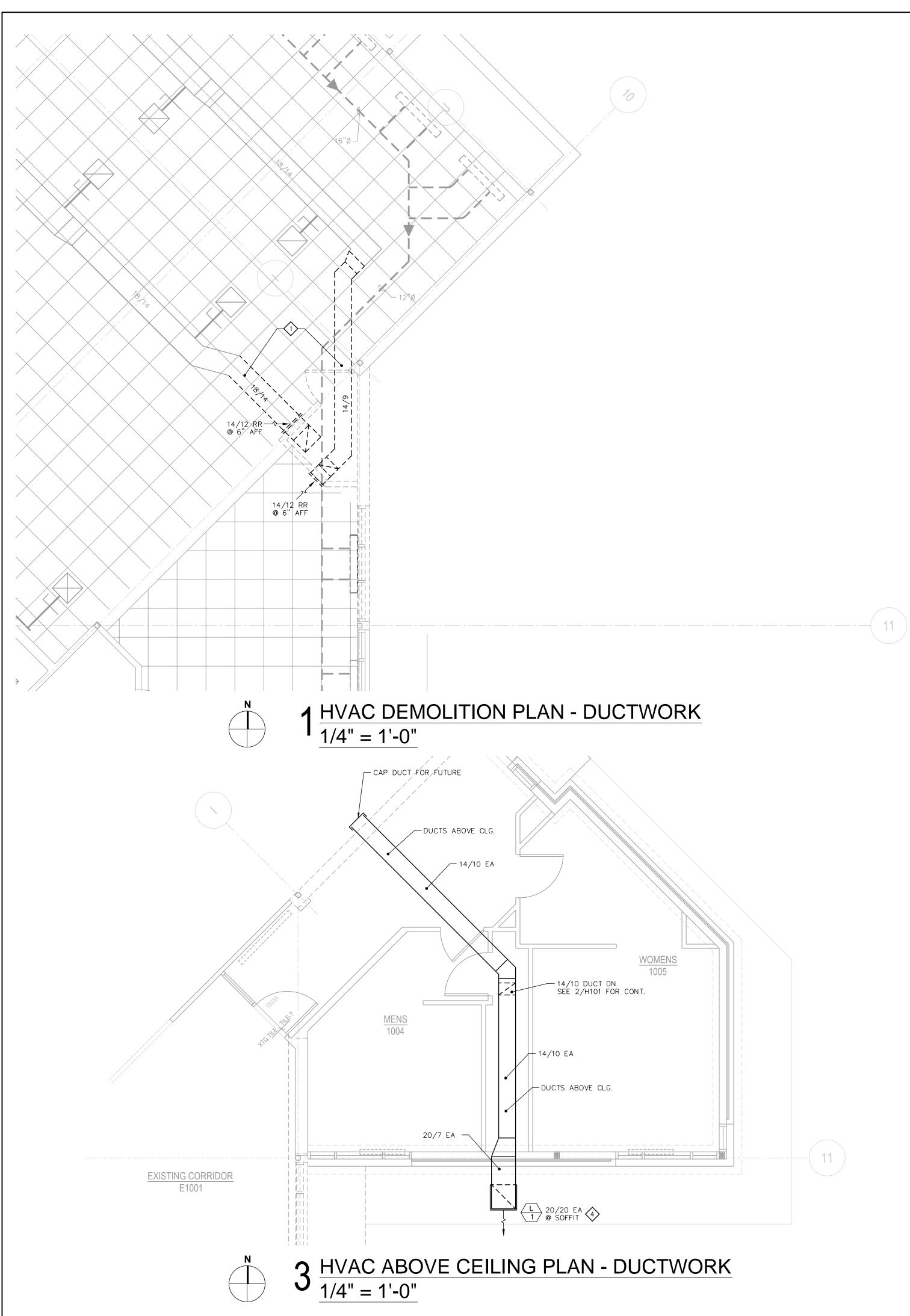


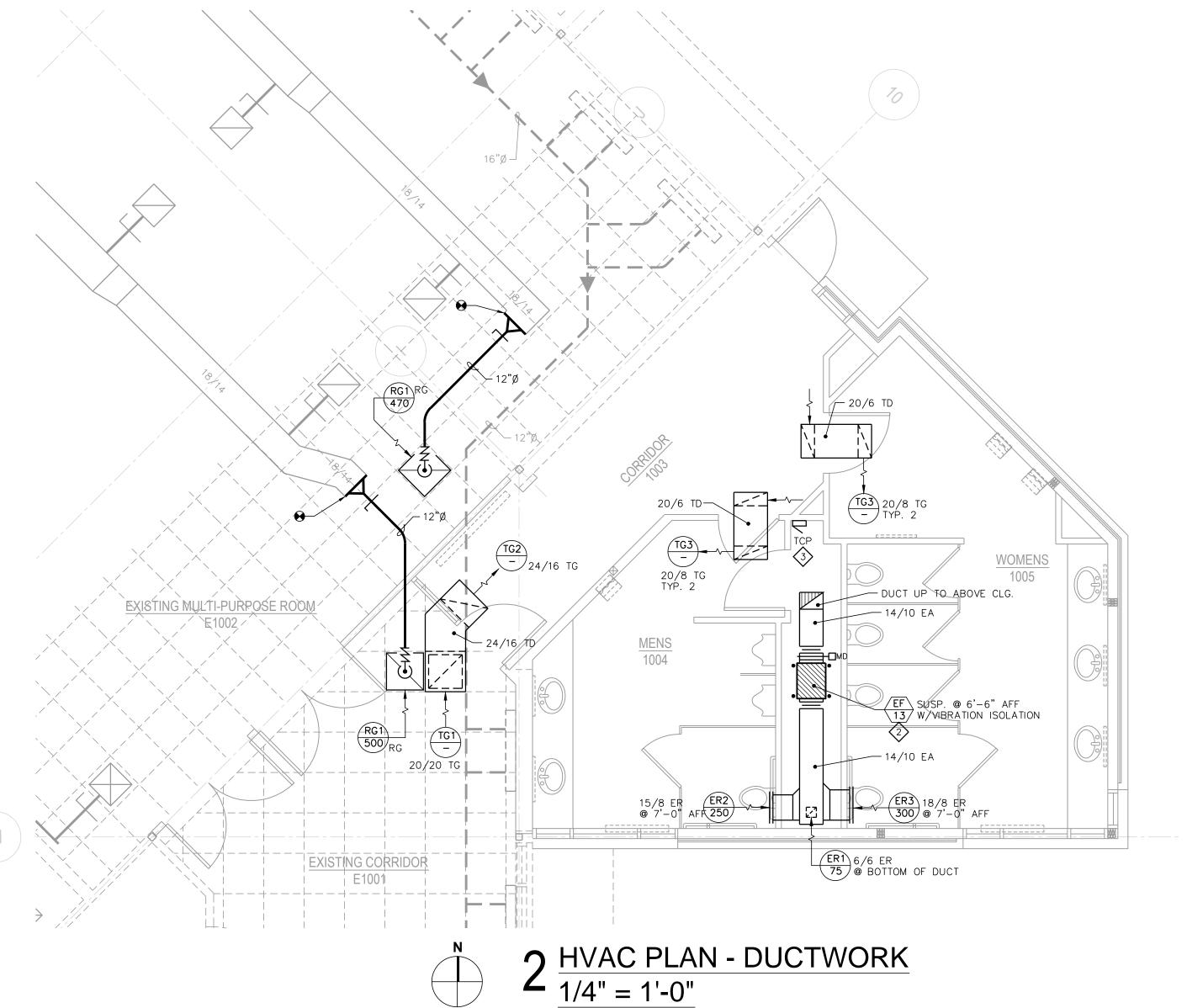
OLBRICH GARDENS
RESTROOM ADDITION
3330 ATWOOD AVENUE

ISSUANCES:					
CD'S		12.21.2012			
-		-			
PROJECT:					
NUMBER:	120	120410.00			
DATE:	12.2	1.2012			
REV:	-				

SHEET:

S702



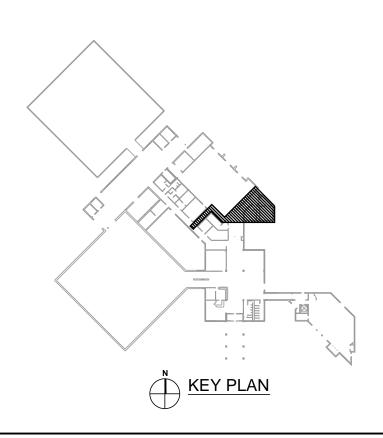


**HVAC GENERAL NOTES:** 

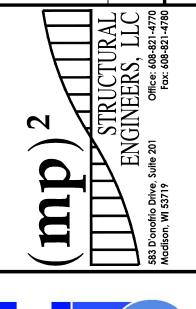
- HVAC CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF HVAC WORK WITH OTHER TRADES.
- 2. COORDINATE PROVISIONS FOR OPENINGS IN NEW CONSTRUCTION WITH THE GENERAL CONTRACTOR FOR APPROVAL PRIOR TO STARTING WORK.
- 3. HVAC CONTRACTOR IS RESPONSIBLE FOR CUTTING AND PATCHING WALLS, FLOORS & CEILINGS FOR NEW HVAC WORK, IF REQUIRED.
- 4. COORDINATE FINAL CEILING REGISTER AND GRILLE LOCATIONS WITH OTHER
- 5. CONCEAL ALL CONTROL WIRING IN FINISHED AREAS.
- 6. COORDINATE DUCTWORK ROUTING WITH OTHER TRADES TO MAINTAIN SCHEDULED CEILING HEIGHTS.
- 7. PROVIDE PROPER SERVICE CLEARANCES AND ACCESS SPACE FOR ALL NEW EQUIPMENT.
- 8. PROVIDE ACCESS PANELS AT INACCESSIBLE CEILINGS FOR EQUIPMENT, WHERE REQUIRED.
- COORDINATE DUCT ROUTING AND WALL PENETRATION LOCATIONS WITH GENERAL CONTRACTOR AND OTHER TRADES.

# HVAC PLAN NOTES:

- DISCONNECT & REMOVE DUCTWORK & RETURN REGISTER BACK TO MAIN DUCT. PROTECT FOR CONTINUATION WITH NEW PLAN.
- $\stackrel{\frown}{2}$  interlock ef-13 operation with occupied building schedule by temperature control contractor.
- 3 TEMPERATURE CONTROL PANEL.
- COORDINATE LOUVER OPENING WITH GENERAL CONTRACTOR.



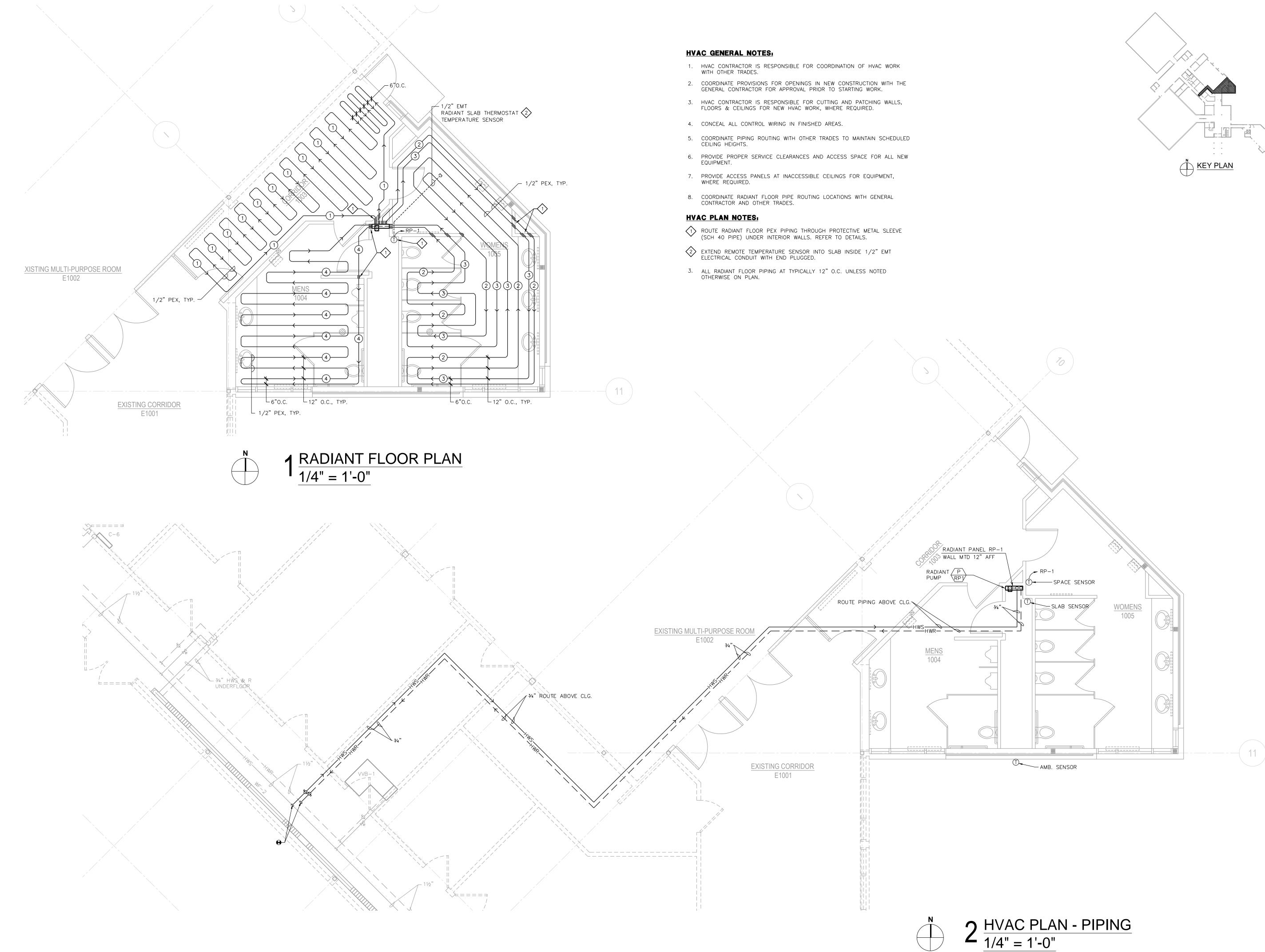






319 W. Beltline Hwy, Suite 111 Madison, WI 53713 Phone: (608) 288-9260 email: hein@chorus.net Project No. H1222

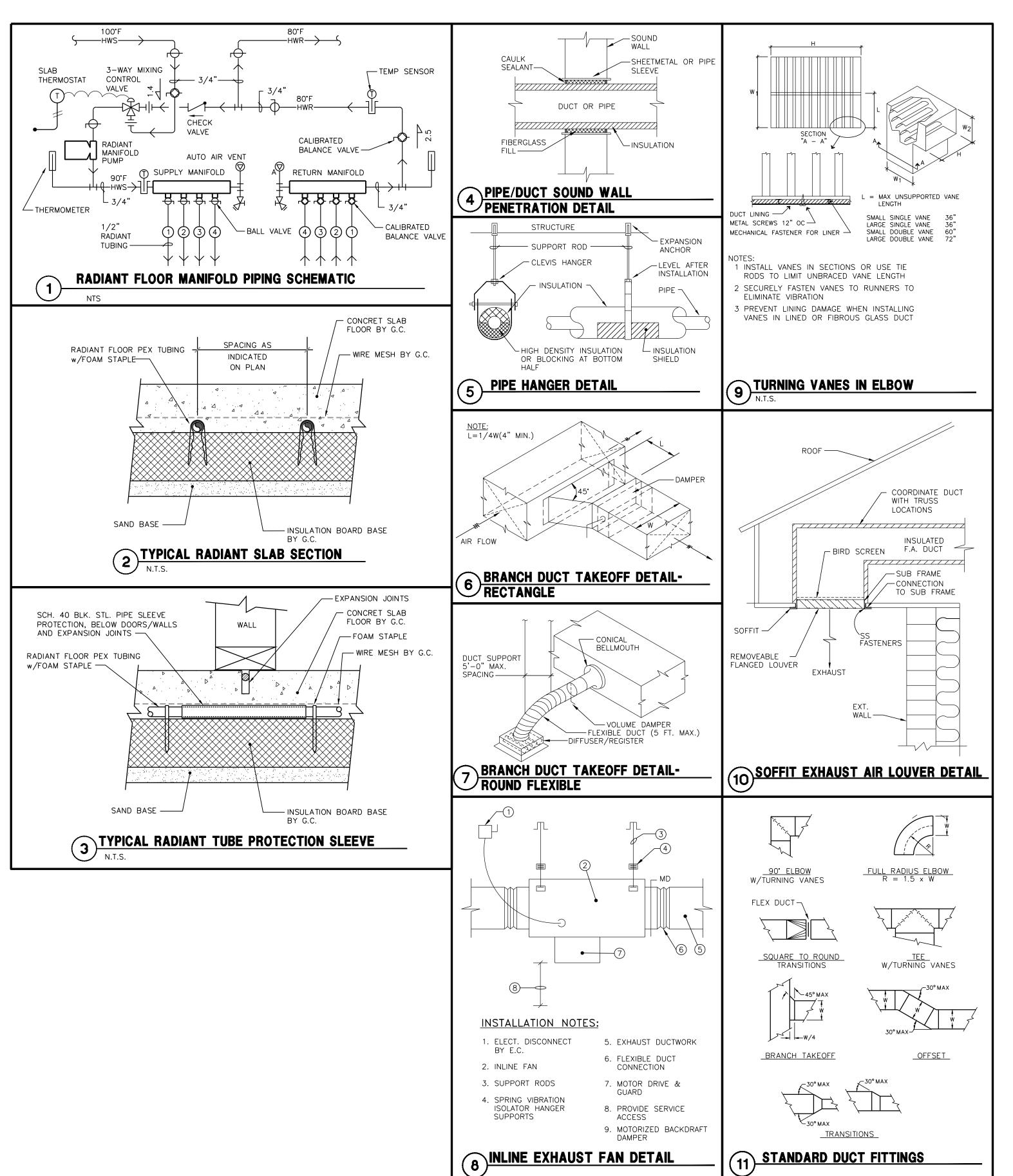
OLBRICH GARDENS
RESTROOM ADDITION
3330 ATWOOD AVENUE





Project No. H1222

ISSUANCES: 12.21.12 PROJECT: 120410.00 DATE: 12.21.12



	D	<b>IFFUS</b>	ERS, RE	GIST	ers a	ND G	RILL	ES SCHEDULE	
<u>TAG</u>	MFGR	MODEL	SIZE NECK (WxH)	FACE (L)	MOUNTING	SERVICE	<u>CFM</u>	REMARKS	
RG1	CARNES	RALMH-T	12"ø (20"×20")	24"×24"	T-BAR/CLG	RETURN	470-500	134 ALUM. RETURN GRILLE	
TG1	CARNES	RALMH-T	20"x20"	24"x24"	T-BAR/CLG	TRANSFER	_	①③ ALUM. TRANSFER GRILLE	
TG2	CARNES	RALMH-C	24"x16"	_	SURFACE/CLG	TRANSFER	_	①⑤ ALUM. TRANSFER GRILLE	
TG3	CARNES	RALMH-C	20"×8"	_	SURFACE/CLG	TRANSFER	_	①⑤ ALUM. TRANSFER GRILLE	
ER1	CARNES	RNJMH	6"x6"	_	DUCT	EXHAUST	75	①② ALUM. EXHAUST REGISTER	
ER2	CARNES	RNJMH	15"x8"	_	SURFACE/WALL	EXHAUST	250	①②⑤ ALUM. EXHAUST REGISTER	
ER3	CARNES	RNJMH	18"×8"	_	SURFACE/WALL	EXHAUST	300	①②⑤ ALUM. EXHAUST REGISTER	
REMARKS:  ① WHITE FINISH.  ② OPPOSED BLADE DAMPER.  ③ T-BAR PANEL.  ④ SQUARE TO ROUND TRANSITION.  ⑤ CONCEALED HANGER.									

	LOUVER SCHEDULE							
<u>TAG</u>	MANUFACTURER	<u>MODEL</u>	<u>TYPE</u>		LOUVER DEPTH x W x HT	FREE AREA S.F.	SERVICE	<u>REMARKS</u>
L-1	VENT PRODUCTS	2730-31-34	STAT.	EXT. ALUM.	2" × 20" × 20"	1.01	EXHAUST AIR	123
_	① BIRD SCREEN - ALUM. ② FLANGED FRAME WITH BUCK FRAME.							

3 POWDER COAT BAKED ENAMEL FINISH; FINAL COLOR SELECTION BY ARCHITECT.

PUMP SC	HEDULE	RP-1 RAD	ANT F	LOOR	SCHE	DULE
AG	P-RP1	LOOP #	1	2	3	4
ANUFACTURER	GRUNDFOS	SERVICE	CORRIDOR 1003	WOMEN'S 1005	WOMEN'S 1005	MEN'S 1004
DDEL NO.	UP15-42F	UPWARD LOAD(BTUH/FT <sup>2</sup> )	16	16	16	16
PE	INLINE	TOTAL LOAD(BTUH/FT <sup>2</sup> )	20	20	20	20
CATION	BASEMENT MECH.	TOTAL LOAD(BTU/HR )	2900	3200	3200	2600
RVICE	HW RADIANT	FLR COVERING R-VALUE	0.25	0.25	0.25	0.25
	PANEL-RP-1	PNL SURFACE TEMP(°F)	80	80	80	80
М	3	AREA (FT )	144	162	130	130
H (FT)	10	TUBE SIZE (IN)	1/2"	1/2"	1/2"	1/2"
P (WATTS)	(85)	ROOM LOOP LENGTH(FT)	177	128	125	146
FICIENCY (%)	N.A.	LEADER LENGTH (FT)	10	10	10	10
ICTION I.D.	3/4"ø	TOTAL LOOP LENGTH(FT)		138	135	156
JTLET I.D.	3/4"ø	EWT (°F)	90	90	90	90
OTOR: ORSEPOWER	1/25	FLOW (GPM)	0.6	0.7	0.7	0.5
LTAGE/PHASE	115/1	LOOP WPD (FT)	2.7	2.8	2.8	1.7
A :MARKS:	0.74  RADIANT FLR RP-1	MANIFOLD TOTALS:  SUPPLY WATER TEMP (*F RETURN WATER TEMP (*F MANIFOLD FLOW (GPM) :	= 80 = 1.2	MANIFOLD S MANIFOLD H	E TEMP (*F) : SIZE = 1"Ø SEATING CAP (	

MANIFOLD SUPPLY FLOW (GPM) = 2.5

EXHAUS	T FAN SCHEDULE
TAG	EF-13
MANUFACTURER	GREENHECK
MODEL NO.	SQ-100-VG
AREA SERVED	TOILETS & MECH.
CFM	625
ESP *WG	1/2"
RPM	1249
MOUNTING	SPRING VIB. HANGERS
DRIVE	DIRECT
SONES (INLET/RADIATED)	6.3/3.0
ELECTRICAL:	
MOTOR HP (BHP)	1/4 (0.06)
FAN F.L.A.	5.8
VOLTAGE/PHASE	115/1
CONTROL	OCCUPIED BLDG MODE
REMARKS:	INLINE EF (1)(2)(3)(4)(5)(6)(7)
	OLTAGE CONTROLS WIRED BY E.C. WITH TEMPERATURE CONTROL BUILDING CHEDULE. UNIT—MOUNTED POTENTIOMETER FOR

③ SPRING/NEOPRENE VIBRATION ISOLATION HANGERS.

5 DIRECT-COUPLED EXTERNAL ACTUATOR (BELIMO).

6 NEMA 1 DISCONNECT SWITCH UNIT-MOUNTED.

7 CLOSED-CELL INSULATED HOUSING.

4 MOTORIZED (115V) OPPOSED BLADE, LOW-LEAKAGE DAMPER.

HVAC	SYMBOL	SCHEDUL
SYMBOL	DES	CDIDTION

4	70-500	134	) ALUM. RETURN	N GRILLE			PIPING
:   -		13	ALUM. TRANS	SFER GRILLE		——HWS——	HOT WATER SUPPLY PIPING
:   -		(1)(5)	ALUM. TRANS	SFER GRILLE		—HWR—	HOT WATER RETURN PIPING
:   -		<u> (15</u>	ALUM. TRANS	SFER GRILLE		——C——	CONDENSATE PIPING
7	75 ①② ALUM. EXHAUST REGISTER					0	PIPE UP
2	250 (1)2(5) ALUM. EXHAUST REGISTER					C	PIPE DOWN
3	00	1)2)5	) ALUM. EXHAL	JST REGISTER		—Ф—	BALL VALVE
			REGISTER				DRAIN VALVE
	TG = TR. RG = RE						TWO WAY TEMP CONTROL
			REGISTER			——————————————————————————————————————	VALVE THREE WAY TEMP CONTROL VALVE
						<b></b>	CALIBRATED BALANCING VALVE
						<del></del>	INLINE STRAINER
_		1				——I	UNION
<u>F.</u>	<u>SERVICE</u>	=   <u>Re</u>	MARKS_				THERMOMETER
	EXHAUST AIR	1	23			—	FLEXIBLE CONNECTION ANCHOR
						<u></u>	T & P TEST WELL
CT.							AIR VENT A = AUTOMATIC M = MANUAL
						<b>—</b>	REDUCER, CONCENTRIC
	FLO	OR	SCHE	DULE		<u> </u>	IMMERSION WELL
	(2)		(3)	(4)			SQUARE/RECTANGULAR
)R —	WOME 100	5	WOMEN'S 1005	MEN'S 1004	^~~	~ <del>~</del>	SUPPLY DIFFUSER, GRILLE OR REGISTER-HORIZONTAL MOUNT
	16		16	16			SQUARE/RECTANGULAR
	20		20	20	~~	~ <del>~</del>	RETURN/EXHAUST REGISTER OR GRILLE-HORIZONTAL
	320		3200	2600			MOUNT
	0.2		0.25	0.25	<b> </b>		SUPPLY REGISTER OR
	80		80	80			GRILLE VERT. MOUNT
	162		130	130	<b></b>	<del>-</del> -₩-	RETURN/EXHAUST REGISTER OR GRILLE VERT. MOUNT
	1/2		1/2"	1/2"			
	128		125	146			VERTICAL SUPPLY DUCT DOWN
	10		10	10			VERTICAL RETURN/EXHAUST
	138		135 90	156			DUCT DOWN
	+			90			VOLUME DAMPER
	2.8		0.7 2.8	0.5 1.7	  -	¬MD →	MOTORIZED DAMPED
	2.0	•	2.0	1.7	1	11	MOTORIZED DAMPER
					₽		FLEXIBLE CONNECTION
	MANIF	OLD S	E TEMP (°F) = IZE = 1"Ø EATING CAP (				SQUARE ELBOW W/TURNING VANES
2.	.5	220 11	(			D R	RADIUS ELBOW, $R/D = 1.5$
T	FAN	l S	CHEDU	JLE		x D	RADIUS TAKEOFF R/D = 1.5 "X"=TAKE-OFF WIDTH
			CC 47				

100

BOD

DUCT RISE(R) OR DROP(D)

DIFFUSER/REGISTER/GRILLE

EXHAUST CFM

THERMOSTAT

ACCESS PANEL

**ABBREVIATIONS** 

EXHAUST AIR FRESH AIR RETURN AIR SUPPLY AIR

DIAMETER

AUTOMATIC CONTROL DAMPER

ABOVE FINISHED FLOOR

BOTTOM OF DUCT

TRANSFER GRILLE

TRANSFER DUCT

EXHAUST FAN LOUVER PUMP

EQUIPMENT SYMBOL

EQUIPMENT SYMBOLS

**HEIN** Engineering Group

319 W. Beltline Hwy, Suite 111

Madison, WI 53713

Project No. H1222

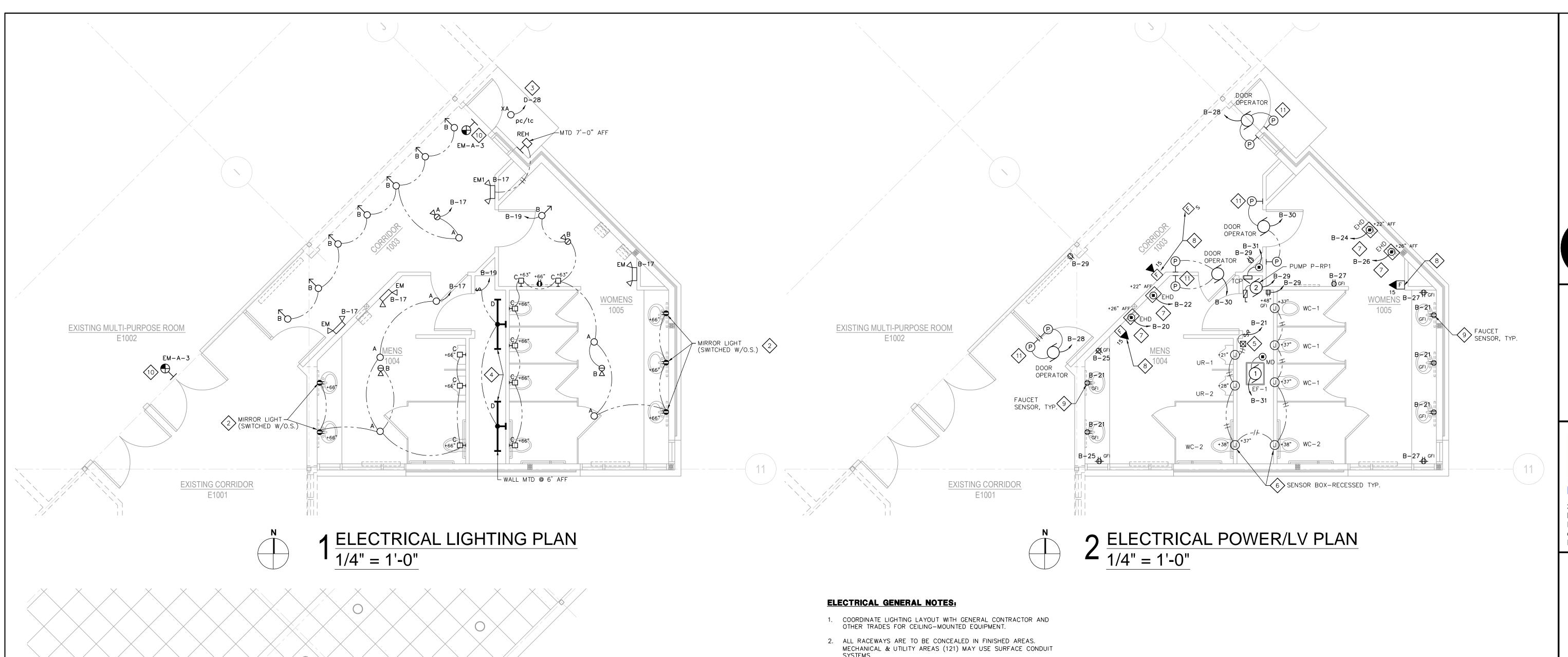
Phone: (608) 288-9260

email: hein@chorus.net

ISSUANCES:			
CD'S		12.21.12	
PROJEC	CT:		
NUMBER:	120	0410.00	
DATE:	12.	21.12	
REV:			

SHEET:

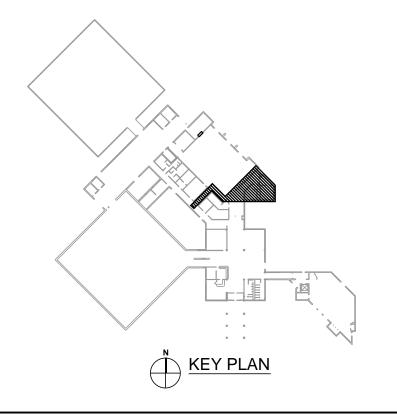
H103



- 3. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING CONDITIONS.
- 4. COORDINATE AND SCHEDULE ALL WORK WITH THE GENERAL CONTRACTOR AND LOW-VOLTAGE CABLING PRIOR TO STARTING.
- 5. EXTEND LIGHTING AND POWER CIRCUITS AS INDICATED FROM PANEL 'B (SQUARE 'D' - NQ) IN STORAGE 33 AS LOCATED BY BUILDING PLAN ON SHEET E102. PROVIDE NEW 20A/1P CIRCUIT BREAKERS (SQUARE 'D' QOB120) FOR NEW CURCUITS.
- 6. EXTEND EXIT LIGHT TO NEAREST EXIST CIRCUIT FROM EMERGENCY PANEL 'EMA' CIRCUIT #3.

# **ELECTRICAL POWER/LV PLAN NOTES:**

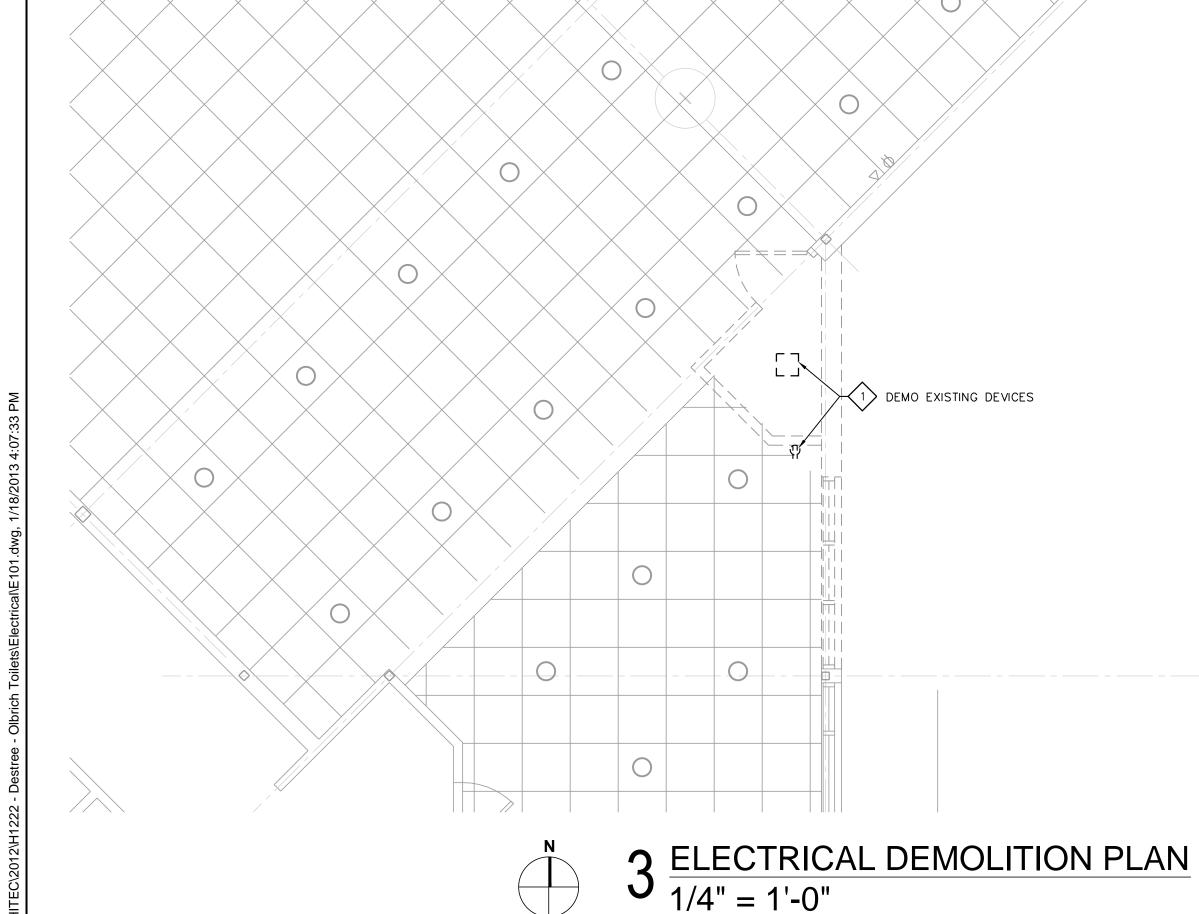
- DISCONNECT AND REMOVE EXISTING RECEPTACLE AND LIGHT FIXTURE .
  REMOVE CONDUCTORS AND RACEWAY SYSTEM BACK TO FIRST JUNCTION BOX OR DEVICE BOX.
- COORDINATE SWITCH RECEPTACLE FINAL LOCATION WITH ILLUMINATED MIRROR REPLACEMENT BY THE GENERAL CONTRACTOR.
- 3 EXTEND EXTERIOR SOFFIT LIGHT TO NEAREST EXTERIOR LIGHTING CIRCUIT (D-28) OUTSIDE MULTIPURPOSE RM12.
- COORDINATE MOUNTING SURFACE OF LIGHT FIXTURES WITH PIPING, DUCTWORK AND OTHER EQUIPMENT FOR CONFLICTS.
- 5 COORDINATE POWER TO LOW-VOLTAGE TRANSFORMER FOR FLUSH VALVES BY PLUMBING TRADE. PROVIDE MASTER PILOT LIGHT SWITCH FOR POWER TO FLUSH VALVES AND LABEL. ROUTE ALL LV CABLING IN
- 6 PROVIDE 4"x4"x2%" RECESSED BOX WITH PLASTER RING FOR SENSOR MOUNTING HEIGHT TO CENTER OF BOX. COORDINATE INSTALLATION WITH PLUMBING TRADE. COORDINATE FINAL MOUNTING HEIGHT LOCATION WITH GENERAL CONTRACTOR.
- PROVIDE 4"x4"x2%" RECESSED BOX WITH PLASTER RING FOR SENSOR MOUNTING. NOTE MOUNTING HEIGHT TO CENTER OF BOX. COORDINATE INSTALLATION WITH PLUMBING TRADE. PROVIDE POWER CONNECTION TO HAND DRYERS (1400W, 120V/1Ø). COORDINATE FINAL MOUNTING HEIGHT LOCATION WITH GENERAL CONTRACTOR.
- 8 EXTEND EXISTING FIRE ALARM SYSTEM INITIATION AND ANNUCIATION CIRCUITS TO NEW FA DEVICES. REFER TO BUILDING PLAN ON SHEET E102 FOR FA EQUIPMENT LOCATIONS.
- 9 COORDINATE FINAL RECEPTACLE LOCATION WITH PLUMBING TRADE FOR FAUCET SENSOR POWER.
- (PANEL 'EMA' CKT#3).
- COORDINATE POWER AND CONTROL WIRING AND RACEWAY REQUIREMENTS FOR DOOR OPERATORS WITH GENERAL CONTRACTOR. DOOR OPERATOR IN DOOR FRAME, WHERE INDICATED.

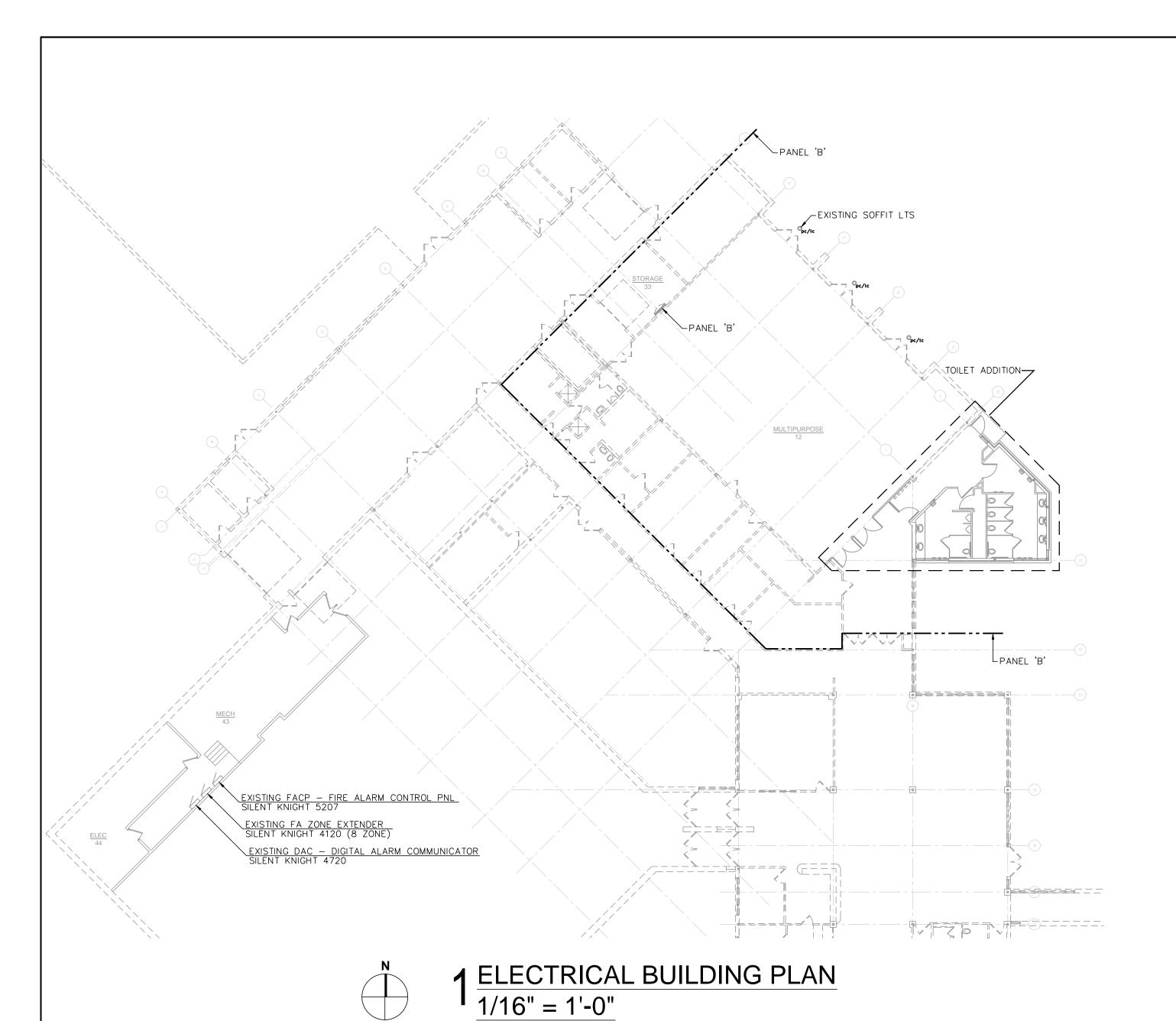


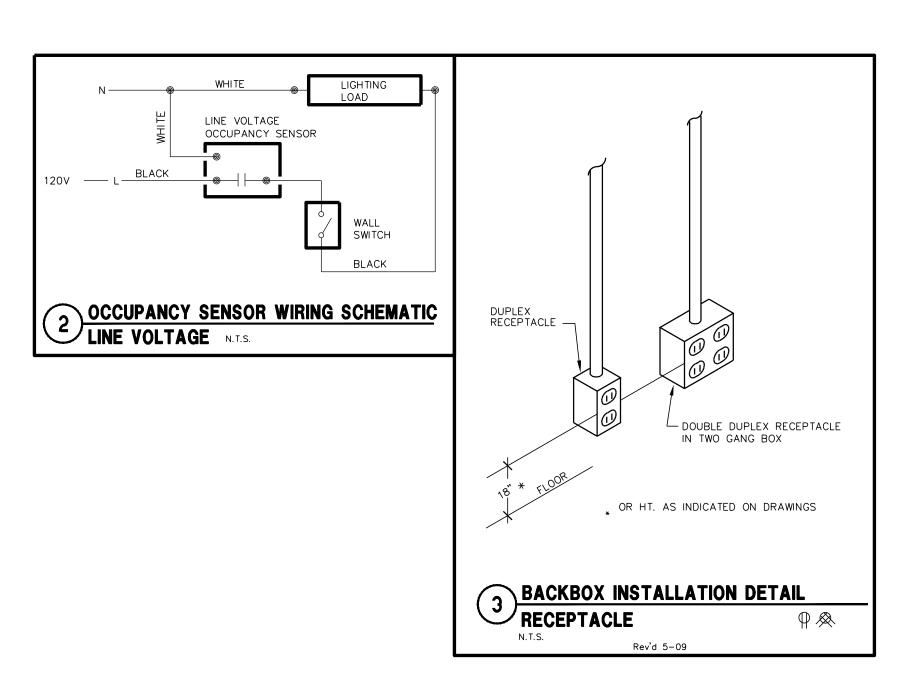


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**ISSUANCES**: 12.21.12 PROJECT: 120410.00 NUMBER: 12.21.12







## OCCUPANCY SENSOR SCHEDULE VOLTAGE RATED CURRENT /LOAD SYMBOL MOUNTING MFGR. & MODEL COVERAGE RECESSED CLG PIR LINE VOLTAGE — EXTENDED RANGE RECESSED/ CLG 800 Watt SENSOR SWITCH RMR-10 48'x48' RECESSED/ CLG SENSOR SWITCH RMR-PDT-9 RECESSED CLG DT LINE VOLTAGE 800 Watt 24'x24' WALL SWITCH 160<sup>0</sup> WALL SWITCH \$<sub>05</sub> 120 VAC 800 Watt SENSOR SWITCH WSD ABBREVIATIONS: PIR=PASSIVE INFRARED U=ULTRASONIC

				LIGH	ITING F	FIXTURE SCHEDULE	
TAG	NO	=	AMPS	DESCRIPTION	MOUNTING	MFGR. & MODEL	REMARKS
А	1	<u>TYPE</u> LED	21	W/FIXTURE	RECESSED/ CLG.	MAXILUME - HV6-LED-21W-DIM10-120-FL- 41K(HOUSING)+LED-6114-SHZ-WH(TRIM)	(2) 6"Ø DOWNLIGHT FLOOD FROSTED LENS
В	-	LED	21	W/FIXTURE	RECESSED/ CLG.	MAXILUME - HV6-LED-21W-DIM10-120-FL- FL-41K(HOUSING)+LED-6107-WH(TRIM)	(2) 6"Ø WALL WASHER FLOOD
С	-	LED	10	W/FIXTURE	SURFACE/ WALL	TECH LIGHTING - 700WSCOS-Y-Z-LED	(2) WALL SCONCE ACRYLIC LENS - ANTIQUE BRONZE
D	2	F	28	F28T5/841	SURFACE	LITHONIA - WC-228T5-A12-MVOLT-GEB10PS	(1) 2L 4FT LENSED UTILITY
XA	1	LED	14	W/FIXTURE	RECESSED/ SOFFIT	ELITE LED LIGHTING - B6IC-LED-14W- 120V-FL-40K-AT(HOUSING)+L659CL-WH (TRIM)	(2)(4) EXT. 6"Ø RECESSED CAN W/PRISMATIC LENS
EM	2	TH	5.4	6V	SURFACE/ WALL	LITHONIA – ELM2	EMERGENCY EGRESS LIGHT w/ BATTERY BACK-UP
EM1	2	TH	9	6V	SURFACE/ WALL	LITHONIA - ELM654 (54 WATTS, 6V)	(6) EMERGENCY EGRESS LIGHT w/BATTERY BACK-UP & ADD'L REMOTE HEAD
REH	2	TH	6	6V	SURFACE/ WALL	LITHONIA – ELA-AFNR-DB	(6) WALL-MTD @ 7'-0" REMOTE EXT. EM HEAD-DUAL LAMPS
•	_	LED	-	w/FIXTURE	SURFACE	LITHONIA - TLE-W-1-G-ELN	(5) EXIT LIGHT w/BATTERY BACK-UP

MH=METAL HALIDE

LED=LIGHT EMITTING DIODE F=FLUORESCENT TH=TUNGSTEN HALOGEN
CF=COMPACT FLUORESCENT IN=INCANDESCENT HPS=HIGH PRESSURE SODIUM

(1) ELECTRONIC PROGRAM START BALLAST - REFER TO SPECIFICATIONS.

(2) LED LIGHTING.(3) GWB CEILING FLANGE KIT.

AMP ABBREVIATIONS:

(4) WET LOCATION UL LISTED.

DT=DUAL TECHNOLOGY (PIR+U)

(1) EXTENDED RANGE COVERAGE.

<u>REMARKS:</u>

(5) CONTRACTOR TO PROVIDE EXIT FIXTURE MOUNTING AS INDICATED ON DRAWING.

(6) EXTEND REMOTE HEADS TO BATTERY PACK.

(7) FINAL FINISH COLOR TO BE SELECTED BY OWNER/ARCHITECT.

ALL FIXTURE VOLTAGES ARE 120 VOLT UNLESS INDICATED OTHERWISE.

ELEC1	TRICAL M	OTOR/E	QUIPMEN	T SCHE	DULE
TAG	1	2	3	4	5
PANEL					
NO.	B(b)	B(a)			
CIRCUIT	31	29			
BREAKER	15	20			
POLE	1	1			
WIRING NO. ①	2+G (#12)	2+G (#12)			
TYPE	THHN	THHN			
SIZE	#12	#12			
COND.	1/2"	1/2"			
ELECTRICAL HP	1/4	1/25			
VOLT	115	115			
PHASE	1	1			
FLA (MCA)	5.8 (7.3)	0.74 (0.0)			
STARTER TYPE	N.R.	N.R.			
SIZE	_	_			
BY	_	_			
CONTROL TYPE	T.C.C. OCCUPIED MODE	T.C.C. HTG MODE			
BY	T.C.C.	T.C.C.			
DISCONNECT TYPE	w/UNIT	NEMA 1 M.S.			
SIZE	_	15			
FUSE	_	T.U.			
BY	H.C.	E.C.			
REMARKS	EXHAUST FAN EF-1	RADIANT FLOOR PUMP			
H.C. = HVAC CC	RATURE CONTROL G CONTRACTOR	CONTRACTOR	N.R.= NOT REC G.D.= GENERAL H.D.= HEAVY D M.S.= MANUAL T.U.= THERMAL	. DUTY DUTY STARTER (FRAC	C & HP)
1) PROVIDE GRE	EN WIRE GROUND	TO ALL MOTOR	S AND EQUIPMEN	IT PER NEC 250	)-95.

# ELECTRICAL SYMBOL SCHEDULE

MOUNTING SYMBOL DESCRIPTION PANEL/CIRC.# LIGHTING FIXTURES LED: SURFACE/ PENDANT SWITCHING — LED: RECESSED SURFACE/WALL MTD FLUORESCENT: SURFACE, **├** CEILING MOUNTED FLUORESCENT: SURFACE, WALL MOUNTED EXIT LIGHT: ARROWS, FACES & MOUNTING AS SHOWN ON DRAWINGS EMERGENCY LIGHT W/ BATTERY PACK: WALL MOUNTED REMOTE EMERGENCY HEAD <u>SWITCHES</u> SINGLE POLE OCCUPANCY SENSOR CONTROLLED WALL SWITCH <u>RECEPTACLES</u> DUPLEX: RECESS MOUNTED W/GROUND FAULT INTERRUPTION PROTECTION DUPLEX: SURFACE MTD DUPLEX RECEPT. MOUNTED ABOVE CASEWORK BACKSPLASH DUPLEX: RECESS SWITCHED EQUIPMENT AND WIRING DIRECT EQUIPMENT CONNECTION MOTOR CONNECTION-SEE EQUIP. SCHEDULE FOR TYPE, WIRING, ETC. JUNCTION BOX-CONCEALED IN FINISHED AREAS, SURFACE IN UNFINISHED AREAS PUSH PLATE -DOOR OPERATOR CONTROL SAFETY DISCONNECT SWITCH WITH COVER INTERLOCK-W.P. INDICATES WATERPROOF (NON-FUSED UNLESS INDICATED BY 'F'-FUSED) ELECTRICAL POWER PANEL OCCUPANCY SENSOR -CEILING MTD TYPE FIRE ALARM HORN/VISUAL STROBE
— CANDELA-ILLUMINATION LEVEL FIRE ALARM STROBE # CANDELA-ILLUMINATION LEVEL FIRE ALARM SMOKE DETECTOR- CLG. MTD. FIRE ALARM CONTROL PANEL FACP FIRE ALARM DIGITAL ALARM COMMUNICATOR

ISSUANCES:

CD'S 12.21.12
---PROJECT:

NUMBER: 120410.00

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**HEIN** Engineering Group

319 W. Beltline Hwy, Suite 111

Madison, WI 53713

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Phone: (608) 288-9260 email: hein@chorus.net

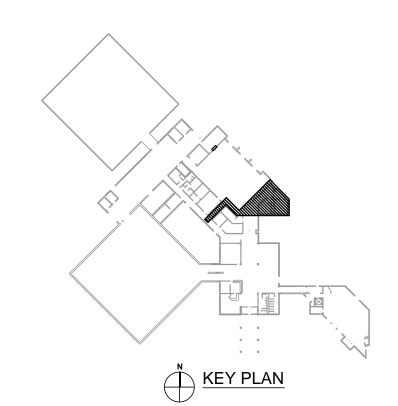
SHEET:

DATE:

REV:

E102

12.21.12



<u>EQUIPMENT</u>

EF=EXHAUST FAN

WH= WATER HEATER

EWH=ELECT. WALL HEATER

<u>ABBREVIATIONS</u>

AFF=ABOVE FINISH FLOOR

NL=NIGHT LIGHT-24 HOURS
PC=PHOTOCELL CONTROLLED
PC/TC=PHOTOCELL ON/
TIMECLOCK OFF

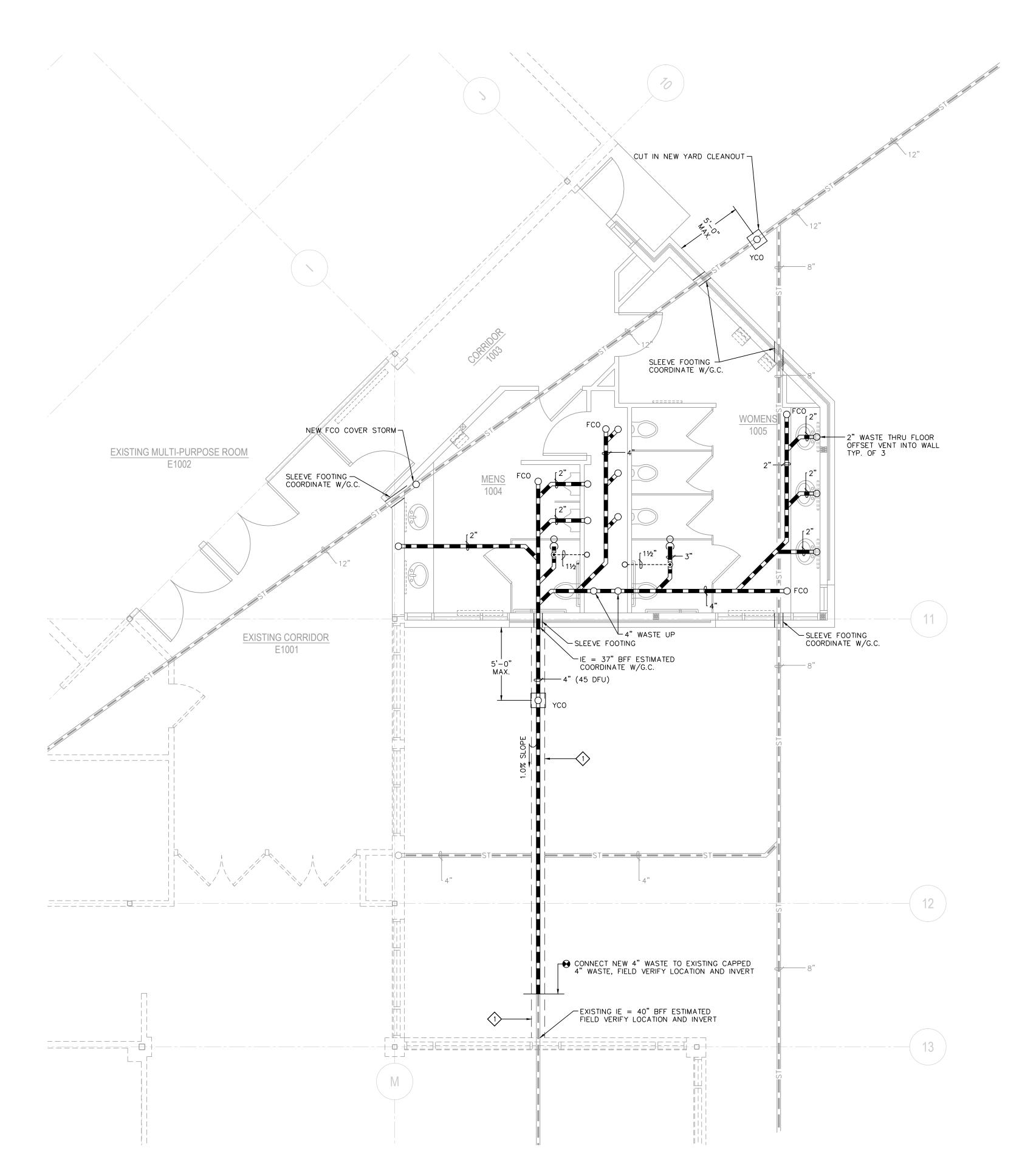
TC=TIMECLOCK CONTROLLED

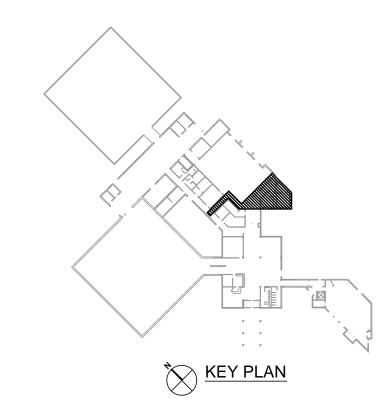
GFI=GROUND FAULT

WP=WEATHERPROOF

INTERRUPTER

<u>SUBSCRIPTS</u>





# **PLUMBING GENERAL NOTES:**

- PLUMBING CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING CONDITIONS.
- COORDINATE CUTTING AND PATCHING OF EXISTING SURFACES WITH GENERAL CONTRACTOR FOR APPROVAL PRIOR TO STARTING WORK.
- 3. PLUMBING CONTRACTOR IS RESPONSIBLE FOR CUTTING AND PATCHING EXISTING WALLS, FLOORS & CEILINGS FOR NEW PLUMBING WORK.
- 4. PATCH ALL EXISTING SURFACES TO ORIGINAL CONDITION.
- 5. FIRE PROOF AND CAULK ALL FIRE RATED PENETRATION AND ASSEMBLIES.
- 6. OWNER SHALL ABATE AND REMOVE ALL ASBESTOS MATERIALS, IF PRESENT.
- 7. COORDINATE PIPING ROUTING WITH OTHER TRADES TO MAINTAIN SCHEDULED CEILING HEIGHTS.

# **PLUMBING PLAN NOTES:**

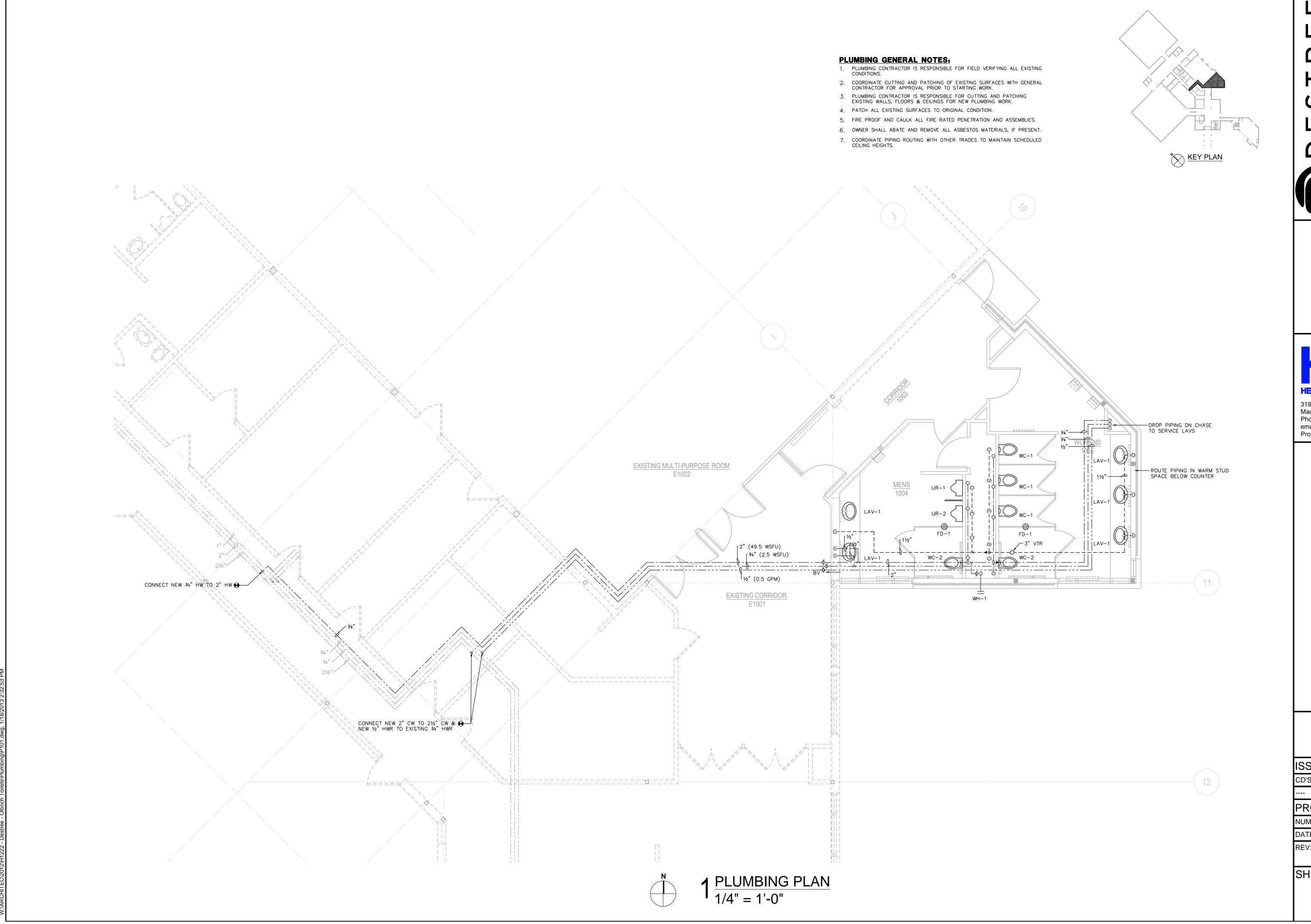
INSULATE EXTERIOR WASTE PIPING PER DETAIL 3/P102 & SPS 382.30(11)c(3).

**HEIN** Engineering Group

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ISSUANCES:			
CD'S		12.21.12	
PROJEC <sup>*</sup>	T:		
NUMBER:	120	0410.00	
DATE:	12.21.12		
REV:			

 $1 \frac{\text{UNDERGROUND PLUMBING PLAN}}{1/4" = 1'-0"}$ 



DESTREE

AL LC 222 West Washington: 608.268.1499 fax: Destree Design Architects Holds All Rights

(IMP) 2

STRUCTURAL

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Fax: 608-821-4780



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# LBRICH GARDENS STROOM ADDITION 3330 ATWOOD AVENUE

ISSUANCES:

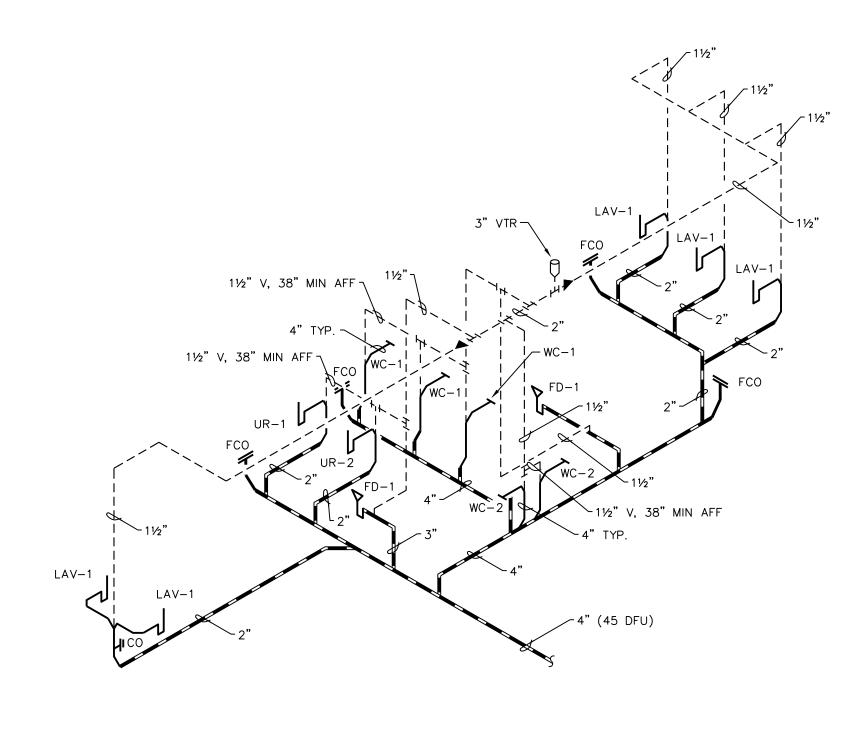
CD'S 12.21.12
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NUMBER: 120410.00

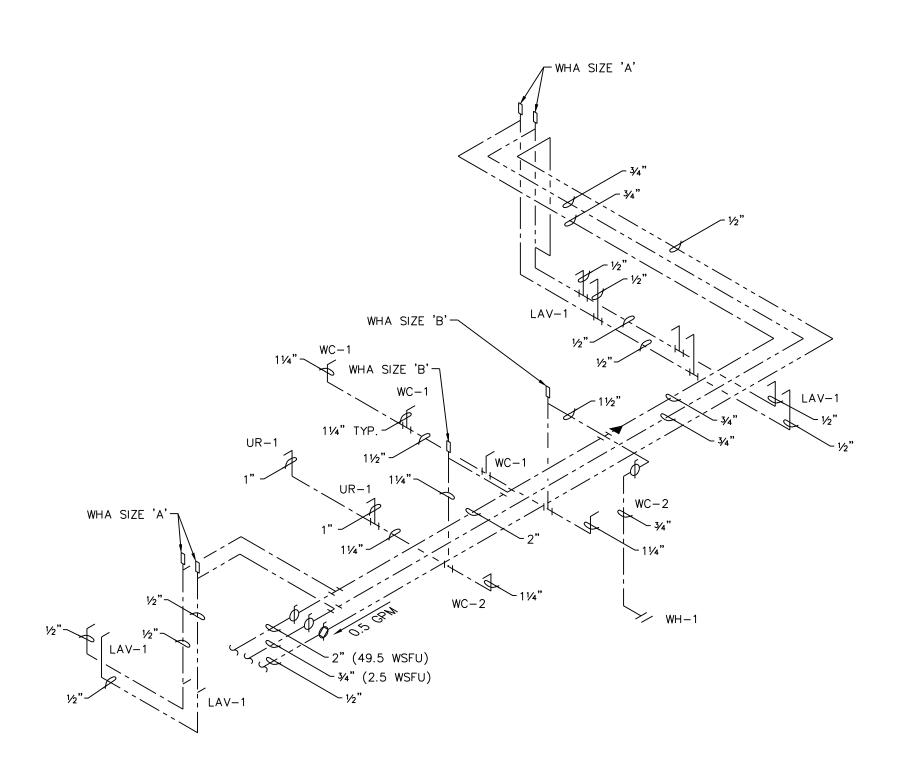
DATE: 12.21.12

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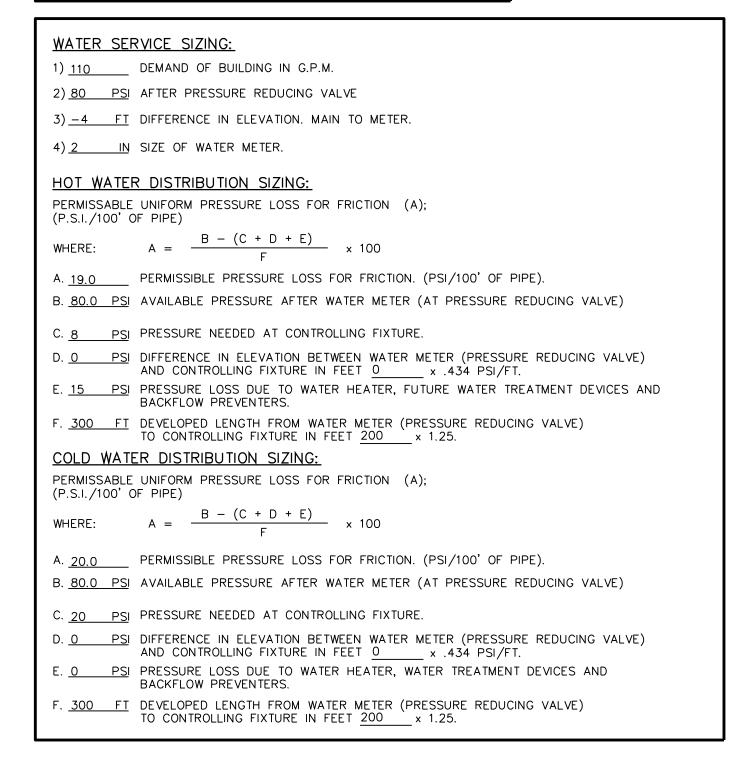
 $1 \frac{\text{WASTE & VENT RISER}}{\text{N.T.S.}}$ 



 $2^{\frac{\text{WATER PIPING RISER}}{\text{N.T.S.}}}$ 

		-	PLUM	BING	3 FIX	TURE SCHEDULE
Р#	FIXTURE	WASTE	VENT	CW.	HW.	DESCRIPTION
WC-1	WATER CLOSET	4"	1-1/2"	1"		VITREOUS CHINA, WHITE, WALL-MTD. ELONGATED BOWL, REAR SPUD, RIM @ 16" AFF FIXTURE EQUAL TO KOHLER KINGSTON K-4323, SLOAN OPTIMA 152-1.6 ES-S SENSOR OPERATED FLUSH VALVE (1.6 GPF) & BEMIS 1955-SSC OPEN FRONT SEAT. PROVIDE EL-154 (120v) TRANSFORMER & VERTICAL ADJ. WALL CARRIERS EQUAL TO SMITH 0230 SERIES.
WC-2	WATER CLOSET ADA	4"	1-1/2"	1"		SAME AS WC-1 EXCEPT RIM MTD @ 17" ADA COMPLIANT.
UR-1	URINAL	2"	1-1/2"	3/4"		VITREOUS CHINA, WHITE, WALL HUNG, REAR SPUD, RIM MTD. @ 24" AFF. KOHLER BARDON MODEL K-4904-ER WITH SLOAN 195-1.0 ES-S SENSOR-CONTROLLED FLUSH VALVE (1.0 GPF), S.S. BEEHIVE STRAINER. PROVIDE EL-154 (102V) TRANSFORMER & VERTICAL ADJ. WALL CARRIER EQUAL TO SMITH 0630 SERIES.
UR-2	URINAL ADA	2"	1-1/2"	3/4"		SAME AS UR-1 EXCEPT RIM MTD @ 17" ADA COMPLIANT.
LAV-1	LAVATORY ADA	1-1/4"	1-1/2"	1/2"	1/2"	INTEGRAL BOWL, (2-HOLE 4" O.C.) W/BRADLEY AERADA 1200 SERIES CS FAUCET, S53-315, w/BRADLEY PLUG-IN ADAPTER 153-443 & S59-4004XS MIXING VALVE, PROWRAP 2000 INSULATION GUARDS, KOHLER 8998 P-TRAP WITH CLEANOUT. ADA COMPLIANT.
WH - 1	WALL HYDRANT			3/4"		KEY-OPERATED, FREEZELESS, AUTOMATIC DRAINING WITH ANTI-SIPHON VB & FLUSH TAMPER-PROOF BOX W/HINGED COVER. EQUAL TO WOODFORD MODEL B65-PB. (ASSE 1011)
FD-1	FLOOR DRAIN	3"	1-1/2"			POLISHED BRONZE ADJ. SQUARETOP W/PROSET TRAP GUARD EQUAL TO SMITH MODEL 2005Y-B-PB (NO HUB), 2010C-B-PB (CAULKED OUTLET).
FCO	FLOOR CLEANOUT	SEE PLAN				POLISHED BRONZE FLOOR ACCESS COVER w/SQUARE FRAME & SECURED COVER EQUAL TO SMITH MODEL 4930-PB.

PLUMBING	SYMBOL SCHEDULE
SYMBOL	DESCRIPTION
	EXISTING WASTE UNDERGROUND
- ST	EXISTING WASTE UNDERGROUND
	- EXISTING COLD WATER
	- EXISTING HOT WATER
	- EXISTING HOT WATER RETURN
	<ul> <li>EXISTING VENT</li> </ul>
	■ UNDERGROUND WASTE PIPING
	— COLD WATER
	- HOT WATER
	— HOT WATER RETURN
	- VENT
<del></del>	PIPE UP
— <del>-</del>	PIPE DOWN
I CO	CLEAN OUT
I WCO	WALL CLEAN OUT







(mp)

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# OLBRICH GARDENS ESTROOM ADDITION 3330 ATWOOD AVENUE

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