



# COUNTY OF KENOSHA

## Department of Planning and Development

### A MULTI-JURISDICTIONAL COMPREHENSIVE PLAN FOR KENOSHA COUNTY: 2035 AMENDMENT PROCEDURES

- ☐ 1. Read the section entitled "Procedure for Amending the Multi-Jurisdictional Comprehensive Plan" of Chapter XV of the Kenosha County comprehensive plan, entitled "A Multi-Jurisdictional Comprehensive Plan for Kenosha County: 2035".
- ☐ 2. Contact the Kenosha County Department of Planning and Development to determine if your proposed land use change requires an amendment of the Kenosha County comprehensive plan map (Map 65 Land Use Plan Map for Kenosha County: 2035).
- ☐ 3. Contact Kenosha County Department of Planning and Development to schedule a joint pre-conference meeting with your town and Kenosha County Department of Planning and Development staff; this is required for all comprehensive plan map amendment requests.

Meeting Date: \_\_\_\_\_

- ☐ 4. Complete the comprehensive plan map amendment application form (A Multi-Jurisdictional Comprehensive Plan for Kenosha County: 2035 Map Amendment Application) as well as any other necessary applications; such as the Kenosha County Zoning Map Amendment Application, Kenosha County Conditional Use Permit Application, or Kenosha County Land Division Application.
- ☐ 5. Submit your completed comprehensive plan map amendment application form (A Multi-Jurisdictional Comprehensive Plan for Kenosha County: 2035 Map Amendment Application) and all associated documents to the Kenosha County Department of Planning and Development. Your application must receive a date stamp from the Kenosha County Department of Planning and Development prior to moving on to step six below. After you have received a date stamp from the Kenosha County Department of Planning and Development, you will be provided with two copies of your application documents.

*Note: Any petitioner has the right to simultaneously file any other necessary applications (such as the Kenosha County Zoning Map Amendment Application, Kenosha County Conditional Use Permit Application and/or Kenosha County Land Division Application) in conjunction with the proposed comprehensive plan map amendment, however let it be known that should the comprehensive plan map amendment petition be denied or withdrawn, refunds for the additional formal petitions will not be issued.*

- ☐ 6. Keep one copy of the completed application for your records and deliver the second copy to your local town clerk for notice of public hearing (per section 66.1001(4)(d) of Wisconsin State Statutes) and placement on the Town Planning Commission and Town Board meeting agendas. Note: **The town may not accept/process your application unless it has been stamped received by the Kenosha County Department of Planning and Development.** The town clerk will provide you with the three following dates. Note: these meetings may be held on the same or different days, depending on your respective town's meeting schedule.

Town Plan Commission Meeting/Public Hearing Date: \_\_\_\_\_

Town Board Meeting Date: \_\_\_\_\_

Attend the Town Plan Commission/Public Hearing and the Town Board meetings. **NOTE:** You must attend or the Town will not be able to act on your request. If you fail to attend these required meetings, your approval process may be delayed.

## KENOSHA COUNTY COMPREHENSIVE PLAN: 2035 MAP AMENDMENT PROCEDURES

- ☐ 7. Submit to the Kenosha County Department of Planning and Development a copy (original newspaper page or certified copy from the Town) of the notice of public hearing (per section 66.1001(4)(d) of Wisconsin State Statutes) that was published by your Town at least 30 days before the public hearing is held.

*Note: See item (i) on the comprehensive plan map amendment application form (A Multi-Jurisdictional Comprehensive Plan for Kenosha County: 2035 Map Amendment Application).*

- ☐ 8. Submit to the Kenosha County Department of Planning and Development a copy of the enacted town resolution and ordinance (per section 66.1001(4)(b) and (c) of Wisconsin State Statutes) adopting the amendment to the Kenosha County comprehensive plan map.

*Note: See item (j) on the comprehensive plan map amendment application form (A Multi-Jurisdictional Comprehensive Plan for Kenosha County: 2035 Map Amendment Application).*

- ☐ 9. Attend the Kenosha County Planning, Development & Extension Education Committee meeting/Public Hearing. **NOTE:** You must attend or the Planning, Development & Extension Education Committee will not be able to act on your request. At this meeting you will be asked to brief the Committee on your request. The Planning, Development & Extension Education Committee cannot act on your application until a recommendation is received from the Town Board.

Kenosha County Planning, Development & Extension Education Committee meeting date: \_\_\_\_\_

- ☐ 10. Planning, Development & Extension Education Committee recommends either approval and adopts a resolution or denial and transmits recommendation to the Kenosha County Board of Supervisors. No action is required from the applicant at this time.

- ☐ 11. The Kenosha County Board of Supervisors either approves or denies the amendment.

If approved, County Board enacts an ordinance that adopts the amendment.

If denied by the Kenosha County Board of Supervisors you have thirty (30) days to file an appeal with circuit court if you so choose.

- ☐ 12. After the County Executive has signed the official Ordinance document amending the Kenosha County comprehensive plan (A Multi-Jurisdictional Comprehensive Plan for Kenosha County: 2035), you will be notified in writing. You may then follow through with filing any other required paperwork such as but not limited to:

Kenosha County Zoning Map Amendment – Filing, review, approval.

Minor Land Divisions – Filing, review, approval and recordation of certified survey map document.

Major Land Divisions – Filing, review, approval and recordation of subdivision plat document.

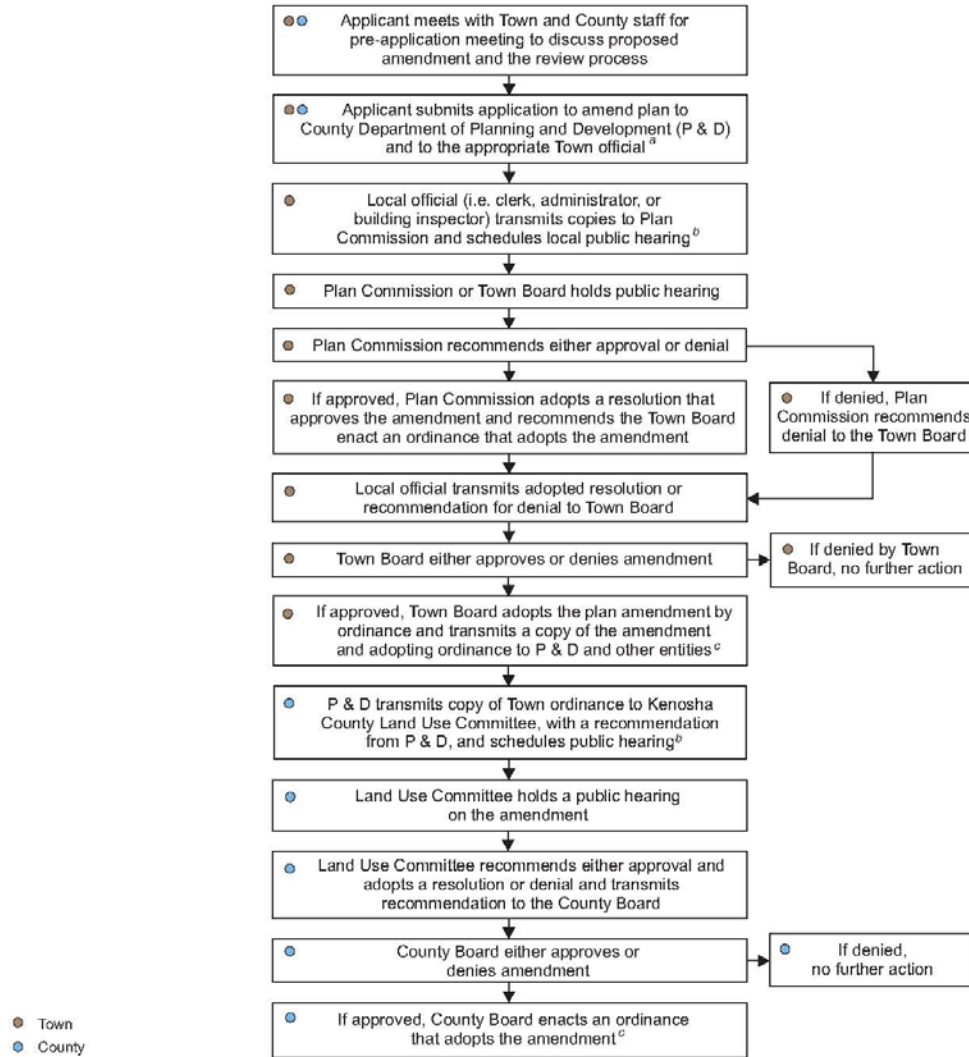
**IMPORTANT TELEPHONE NUMBERS**

Kenosha County Center	
Department of Planning & Development	
19600 - 75 <sup>th</sup> Street, Post Office Box 520	
Bristol, Wisconsin 53104-0520	
Division of County Development (including Sanitation & Land Conservation) .....	<b>857-1895</b>
Facsimile #.....	857-1920
Public Works Division of Highways.....	857-1870
Administration Building	
Division of Land Information .....	653-2622
Brighton, Town of.....	878-2218
Paris, Town of .....	859-3006
Randall, Town of .....	877-2165
Salem, Town of .....	843-2313
Utility District .....	862-2371
Somers Town of .....	859-2822
Wheatland, Town of .....	537-4340
Wisconsin Department of Natural Resources - Sturtevant Office .....	884-2300
Wisconsin Department of Transportation - Waukesha Office .....	548-8722

# KENOSHA COUNTY COMPREHENSIVE PLAN: 2035 MAP AMENDMENT PROCEDURES

Figure XV-1

## KENOSHA COUNTY MULTI-JURISDICTIONAL COMPREHENSIVE PLAN AMENDMENT PROCESS FOR TOWNS



<sup>a</sup> If Town has adopted a separate Town comprehensive plan, applicant files an application to amend the Town plan. If Town has adopted the multi-jurisdictional comprehensive plan, applicant files application for Town Board approval of amendment to the multi-jurisdictional plan.

<sup>b</sup> A notice of public hearing must be published and distributed in accordance with Section 66.1001(4) of the Wisconsin Statutes and the community or County public participation plan.

<sup>c</sup> A copy of the amendment and adopting ordinance must be distributed in accordance with Section 66.1001(4) of the Wisconsin Statutes and the community or County public participation plan.



January 2013

# COUNTY OF KENOSHA

## Department of Planning and Development

RECEIVED

MAY - 6 2020

Kenosha County  
Deputy County Clerk

RECEIVED

MAY - 6 2020

Kenosha County  
Planning and Development

### A MULTI-JURISDICTIONAL COMPREHENSIVE PLAN FOR KENOSHA COUNTY: 2035 MAP AMENDMENT APPLICATION

(a) Property Owner's Name:

Thomas C. Walas

x \_\_\_\_\_  
Signature

Mailing Address:

5901 Lockhurst Dr.

City: Woodland Hills

State: CA

Zip: 91367

Phone Number: 310-498-3443

E-mail (optional): tomwalas@prodigy.net

Note: If the property owner's signature cannot be obtained in the above space, a "letter of agent status" signed by the property owner must be submitted if you are an applicant (tenant, leaseholder, or authorized agent representing the legal owner) acting on their behalf.

Applicant's Name (if applicable):

Wisconsin Electric Power Company d/b/a We Energies, Maria Koerner Agent x

*Maria Koerner*  
Signature

Mailing Address:

231 W. Michigan Street - P129

City: Milwaukee

State: WI

Zip: 53203

Phone Number: 414-221-2727

E-mail (optional): maria.koerner@we-energies.com

(b) Existing planned land use category as shown on Map 65 of the Kenosha County comprehensive plan:

"Farmland Protection", "Secondary Environmental Corridor" & "Non-Farmed Wetland"

(c) Proposed land use category (must be a land use category included in the legend for Map 65 of the Kenosha County comprehensive plan):

All the categories listed in (b) and "Transportation - Communication - Utility" on 3/4 of an acre.

**KENOSHA COUNTY COMPREHENSIVE PLAN: 2035 MAP AMENDMENT APPLICATION**

**(d)** Proposed use (a statement of intended use and/or the type, extent, area, etc. of any development project):

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**(e)** Compatibility with the Kenosha County comprehensive plan (address the following questions in detail):

**(e-1)** Is the proposed amendment consistent with the goals, objectives, policies, and programs of this plan? Explain:

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**KENOSHA COUNTY COMPREHENSIVE PLAN: 2035 MAP AMENDMENT APPLICATION**

**(e-2)** Is the proposed amendment compatible with surrounding land uses? Explain its compatibility with both existing and planned land uses:

[illegible]

**(e-3)** Will the proposed amendment have any detrimental environmental effects? Explain:

[illegible]

**KENOSHA COUNTY COMPREHENSIVE PLAN: 2035 MAP AMENDMENT APPLICATION**

**(e-4)** Has a substantial public benefit been demonstrated by the proposed plan amendment? Explain:

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are approximately 20 lines visible. The paper has a slight shadow on the right side, suggesting it's part of a bound notebook.

**(e-5)** Are public roads, services, and utilities available, or planned to be available in the near future, to serve the proposed development? Explain:

[illegible]



**KENOSHA COUNTY COMPREHENSIVE PLAN: 2035 MAP AMENDMENT APPLICATION**

**(e-6)** Are existing or planned facilities and services adequate to serve the type of development associated with the amendment? Explain:

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and extend across the width of the page. There are no margins, text, or other markings on the paper.

**(e-7)** Any additional data or information as requested by the Department of Planning and Development:

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KENOSHA COUNTY COMPREHENSIVE PLAN: 2035 MAP AMENDMENT APPLICATION

(f) Attach a legal description and provide the tax key number(s) below of property to be amended on the Kenosha County comprehensive plan:

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(g) Attach plot plan or survey plat of property to be amended on the comprehensive plan (showing location, dimensions, planned land use of adjacent properties, existing uses and buildings of adjacent properties—drawn to scale).

(h) The name of the County Supervisor of the district wherein the property is located:

Supervisory District Number: \_\_\_\_\_ County Board Supervisor: \_\_\_\_\_

(i) Attach a copy (original newspaper clipping or certified copy from the Town) of the notice of public hearing (per section 66.1001(4)(d) of Wisconsin State Statutes) that is published by your Town at least 30 days before the public hearing is held. Include the date of publication with the copy of the notice of public hearing.

**Note: Your application will not be processed by Kenosha County until a copy of the notice of public hearing and town approval letter is received by the Kenosha County Department of Planning and Development.**

(j) Attach a copy of the enacted town resolution and ordinance (per section 66.1001(4)(c) of Wisconsin State Statutes) adopting the amendment to the Kenosha County comprehensive plan map.

**Note: Your application will not be processed by Kenosha County until a copy of the enacted town resolution and ordinance adopting the amendment is received by the Kenosha County Department of Planning and Development.**

(k) The fee specified in Section 12.05-8 of this ordinance.

Request for Land Use Plan Map Amendment ..... \$250.00 payable to "Kenosha County"

(For other fees see the [Fee Schedule](#))

KENOSHA COUNTY COMPREHENSIVE PLAN: 2035 MAP AMENDMENT APPLICATION

**IMPORTANT TELEPHONE NUMBERS**

Kenosha County Center

Department of Planning & Development  
19600 - 75<sup>th</sup> Street, Post Office Box 520  
Bristol, Wisconsin 53104-0520

Division of County Development (including Sanitation & Land Conservation) ..... **857-1895**

Facsimile #..... 857-1920

Public Works Division of Highways..... 857-1870

Administration Building

Division of Land Information ..... 653-2622

Brighton, Town of ..... 878-2218

Paris, Town of ..... 859-3006

Randall, Town of ..... 877-2165

Salem, Town of ..... 843-2313

Utility District ..... 862-2371

Somers Town of ..... 859-2822

Wheatland, Town of ..... 537-4340

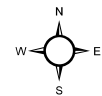
Wisconsin Department of Natural Resources - Sturtevant Office ..... 884-2300

Wisconsin Department of Transportation - Waukesha Office ..... 548-8722

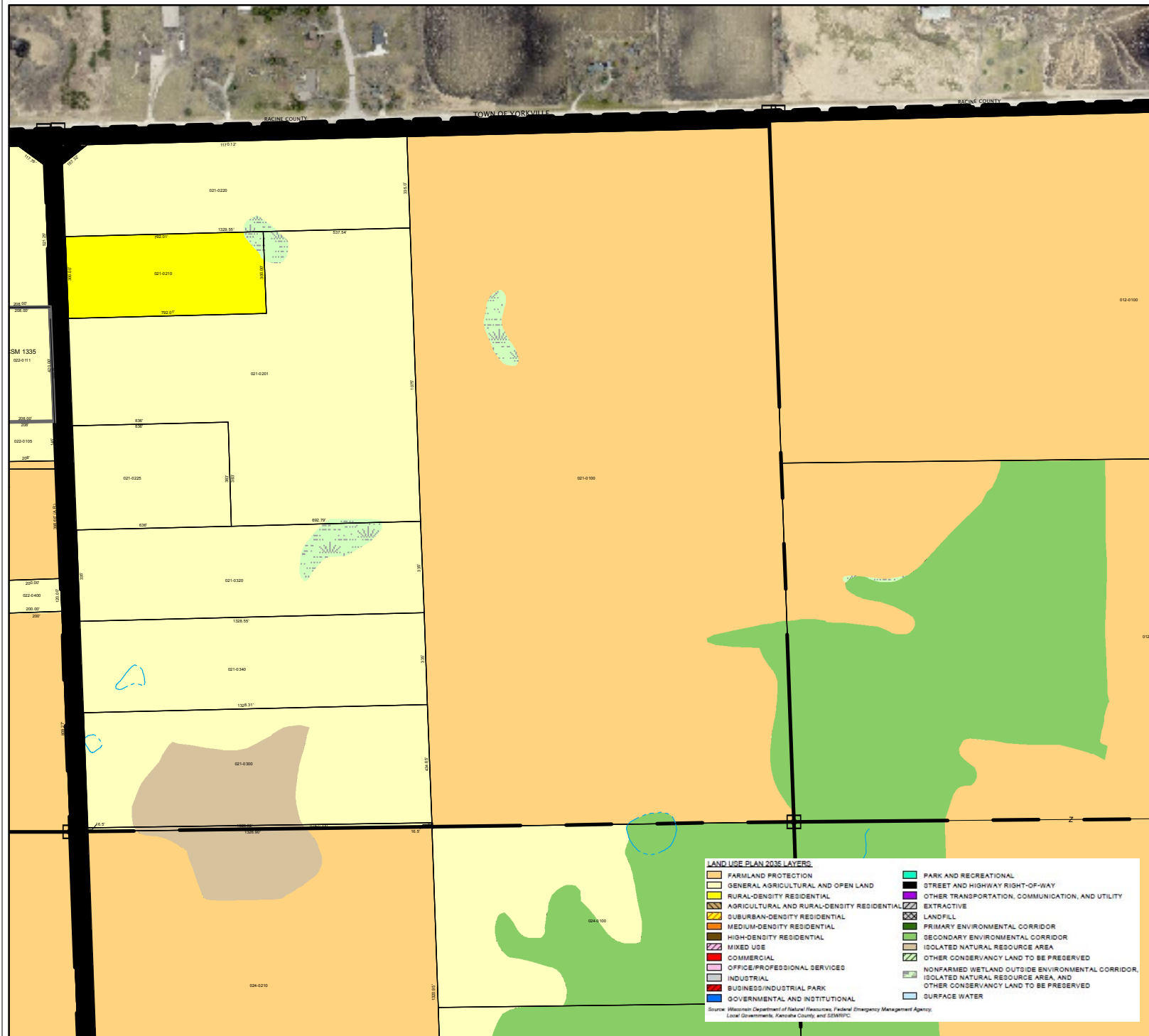
# Kenosha County



## CURRENT LAND USE PLAN MAP DESIGNATIONS

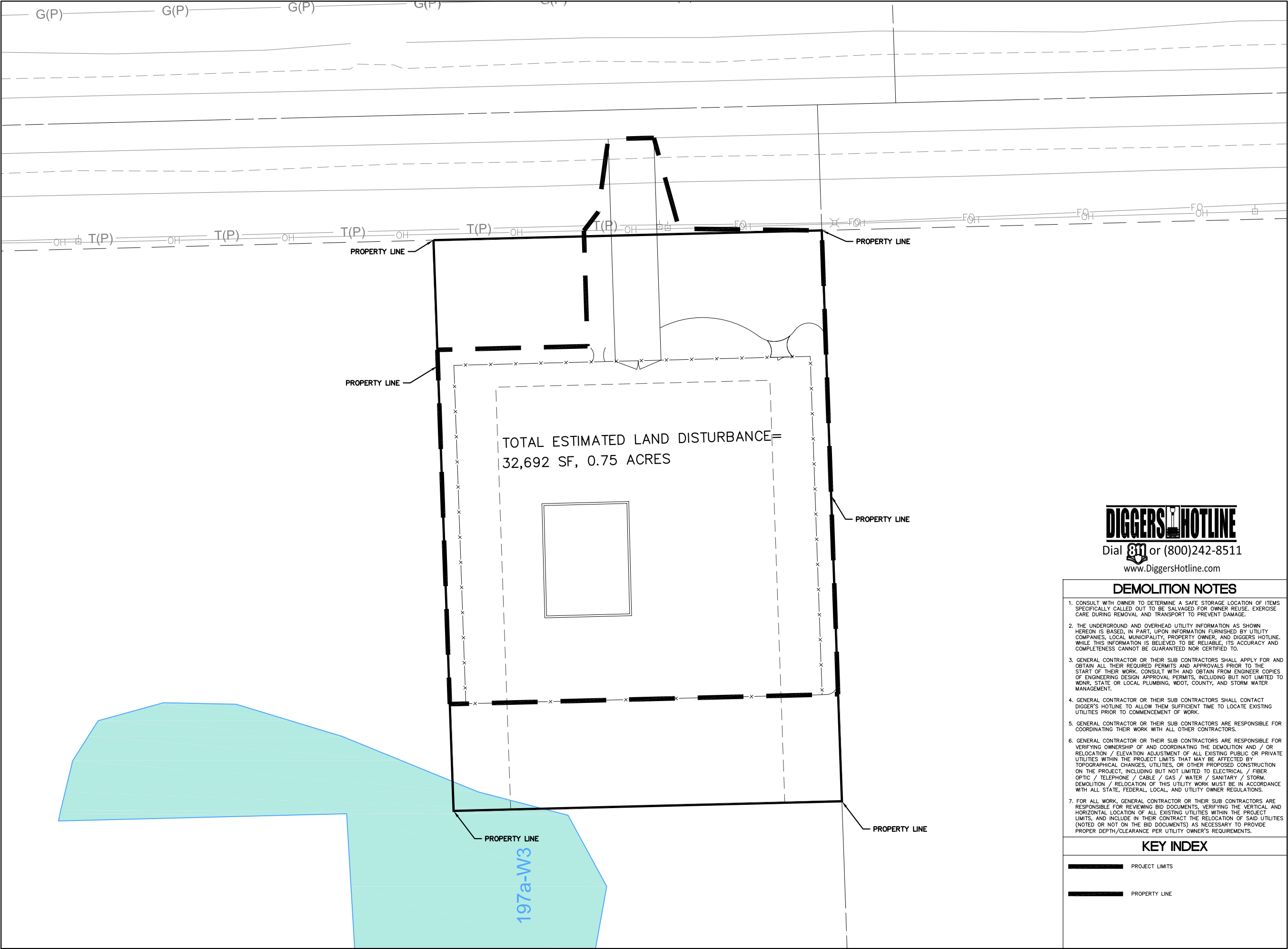


1 inch = 500 feet



Source: Kenosha County Department of Planning and Development

THIS MAP IS NEITHER A LEGALLY RECORDED MAP NOR A SURVEY AND IS NOT INTENDED TO BE USED AS ONE. THIS DRAWING IS A COMPILATION OF RECORDS, DATA AND INFORMATION LOCATED IN VARIOUS STATE, COUNTY AND MUNICIPAL OFFICES AND OTHER SOURCES AFFECTING THE AREA SHOWN AND IS TO BE USED FOR REFERENCE PURPOSES ONLY. KENOSHA COUNTY IS NOT RESPONSIBLE FOR ANY INNACURACIES HEREIN CONTAINED. IF DISCREPANCIES ARE FOUND, PLEASE CONTACT KENOSHA COUNTY.



7711 N. Port Washington Road  
Milwaukee, Wisconsin 53217  
kapurinc.com

PROJECT:  
WE ENERGIES  
LAKESHORE H.P.  
REGULATION  
STATION

LOCATION:  
WALAS SITE

CLIENT:

RELEASE:  
PRELIMINARY

REVISIONS:

#	DATE	DESCRIPTION

NORTH ARROW:

SCALE: 1" = 40'

SEAL:

all in

SHEET:

SITE DEMOLITION  
PLAN

PROJECT MANAGER: LMN  
PROJECT NUMBER: 19.0206.01  
DATE: 04/03/2020

SHEET NUMBER:

C101

PROJECT:  
WE ENERGIES  
LAKESHORE H.P.  
REGULATION  
STATION

LOCATION:  
WALAS SITE

CLIENT:




RELEASE:  
PRELIMINARY

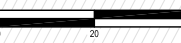
REVISIONS:

#	DATE	DESCRIPTION

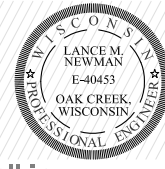
NORTH ARROW:



SCALE: 1" = 40'



SEAL:

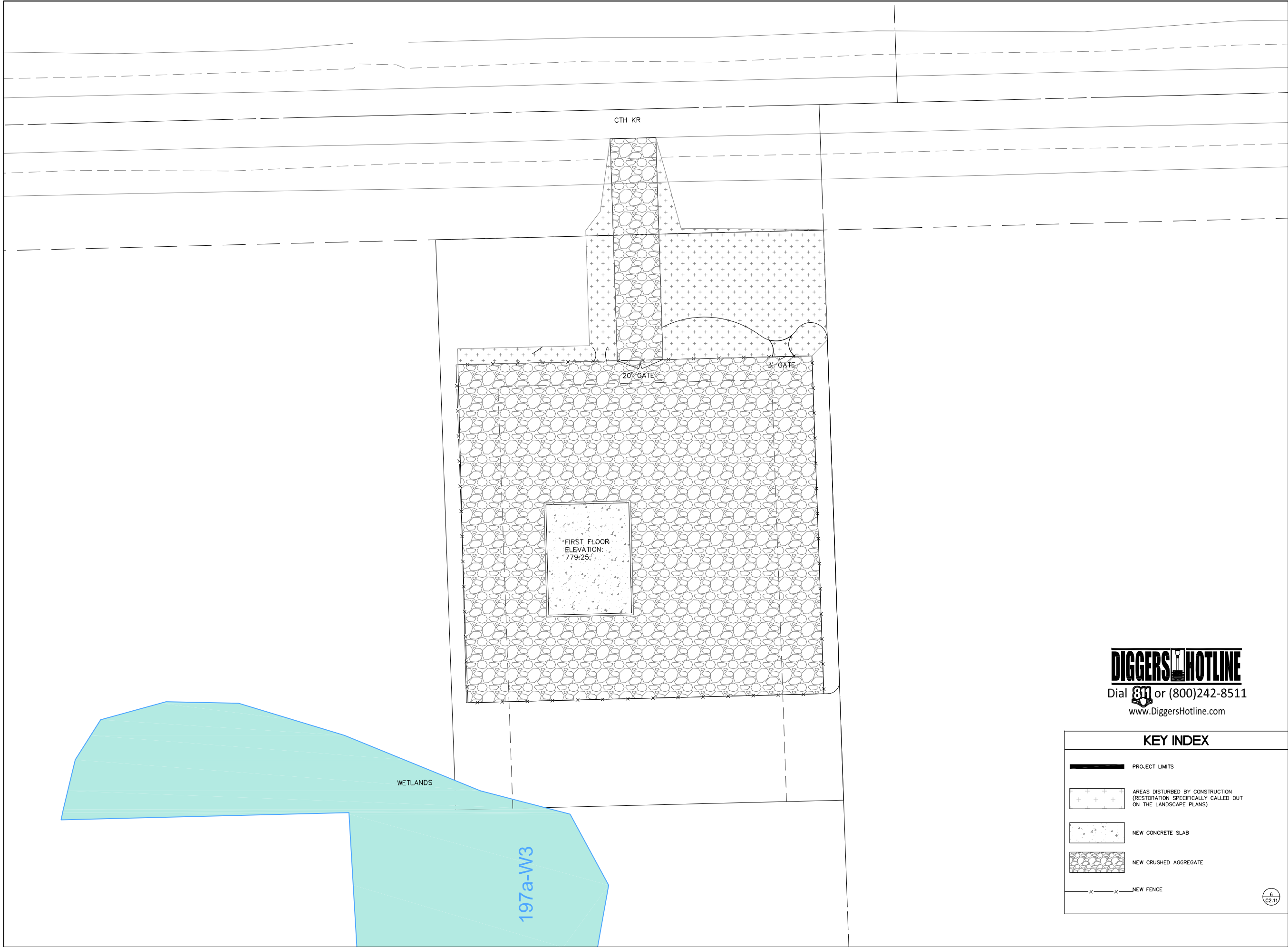


all in

SHEET:  
SITE LAYOUT PLAN

PROJECT MANAGER: LMN  
PROJECT NUMBER: 19.0206.01  
DATE: 04/03/2020

SHEET NUMBER:  
C102





7711 N. Port Washington Road  
Milwaukee, Wisconsin 53217

kapurinc.com

PROJECT:  
WE ENERGIES  
LAKESHORE H.P.  
REGULATION  
STATION

LOCATION:  
WALAS SITE

CLIENT:



RELEASE:  
PRELIMINARY

REVISIONS:		
#	DATE	DESCRIPTION

NORTH ARROW:



SCALE: 1" = 40'



SEAL:



all in

SHEET:  
SITE GEOMETRIC  
PLAN

PROJECT MANAGER: LMN  
PROJECT NUMBER: 19.0206.01  
DATE: 04/03/2020

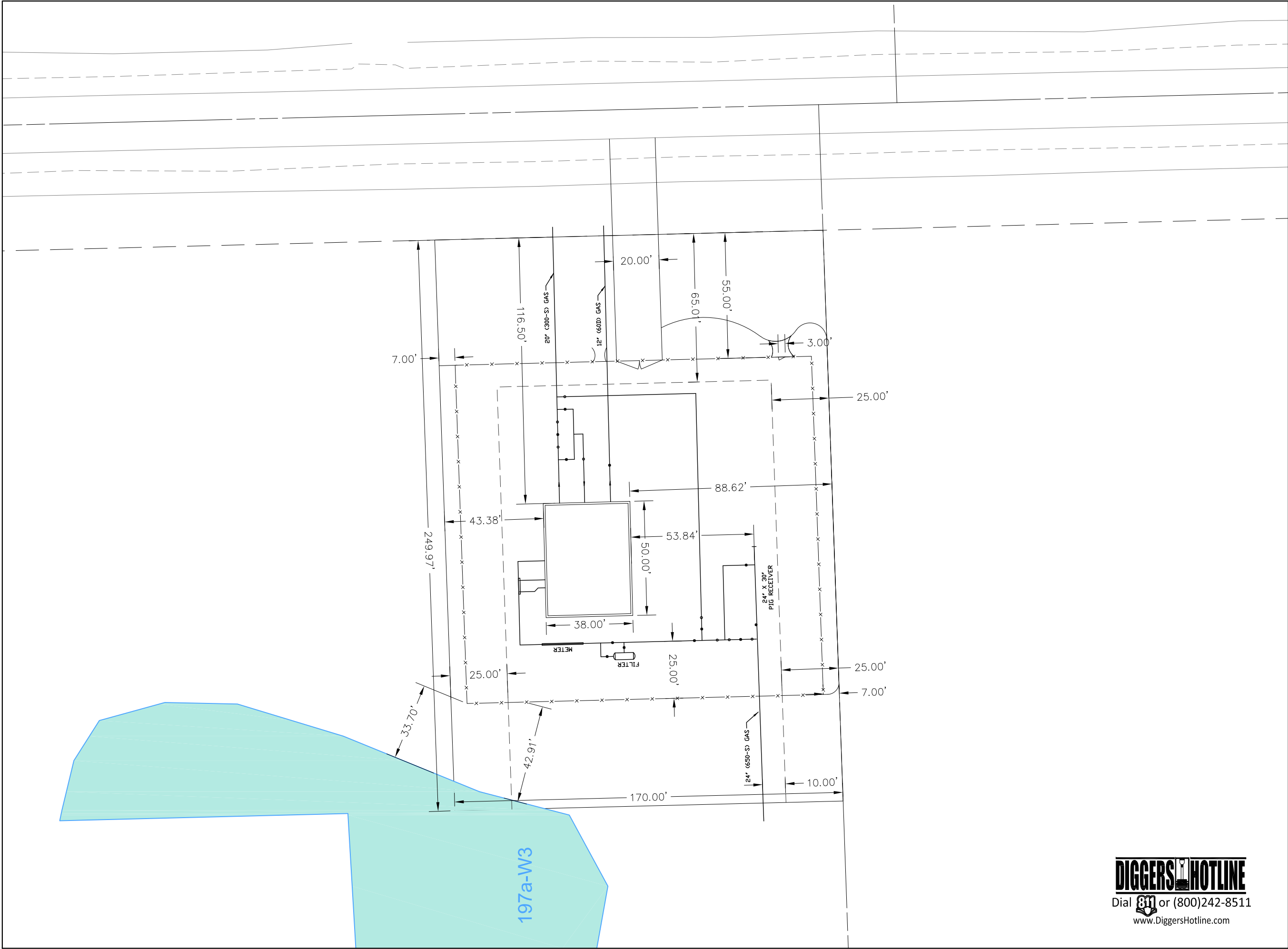
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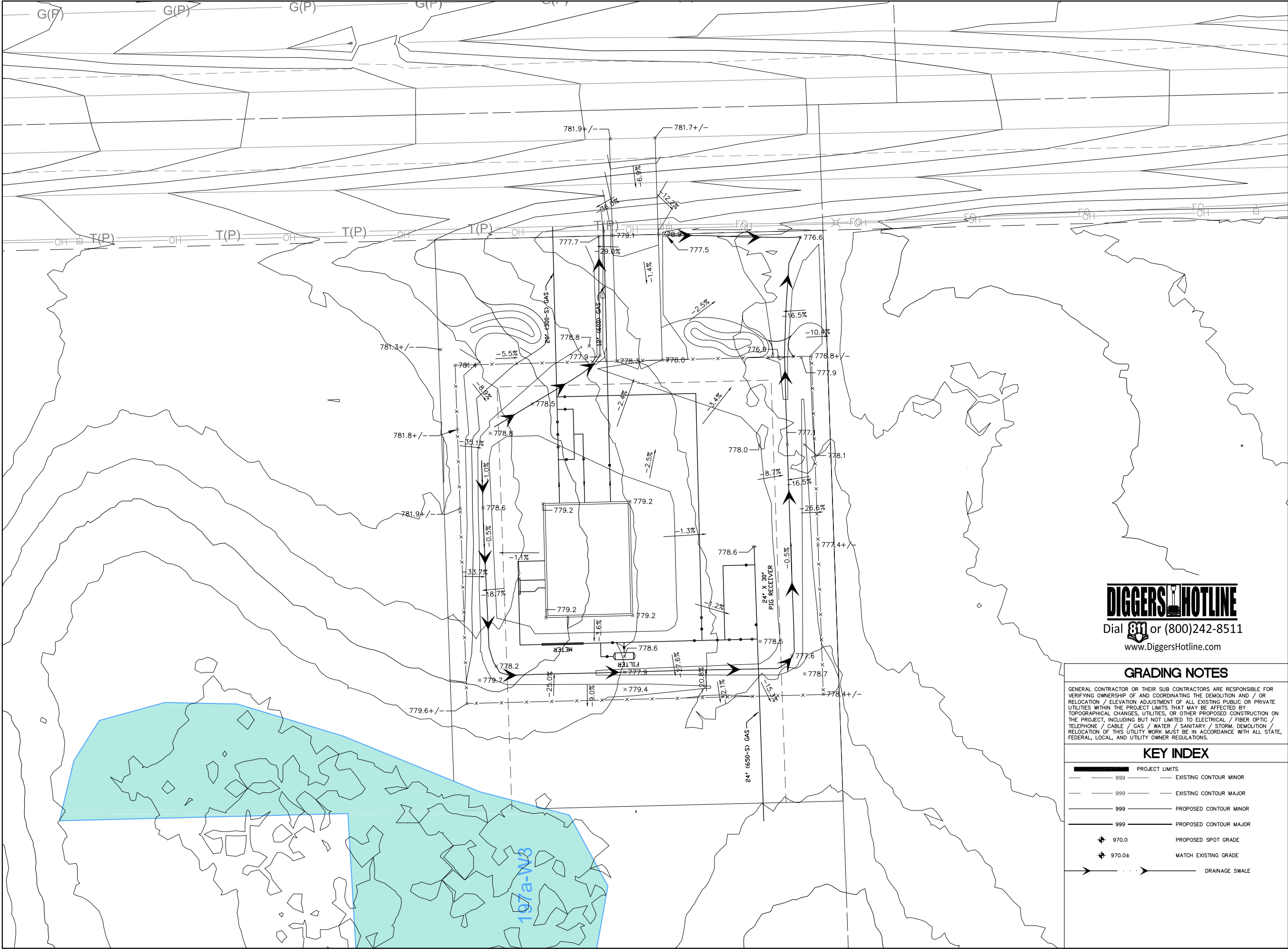
C103

DIGGERSHOTLINE

Dial 811 or (800)242-8511

www.DiggersHotline.com





7711 N. Port Washington Road  
Milwaukee, Wisconsin 53217  
kapurinc.com

PROJECT:  
WE ENERGIES  
LAKESHORE H.P.  
REGULATION  
STATION

LOCATION:  
WALAS SITE

CLIENT:

RELEASE:  
PRELIMINARY

REVISIONS:

#	DATE	DESCRIPTION

NORTH ARROW:

SCALE: 1" = 40'

SEAL:

all in

SHEET:  
SITE GRADING PLAN

PROJECT MANAGER: LMN  
PROJECT NUMBER: 18.0206.01  
DATE: 04/03/2020

SHEET NUMBER:  
C104





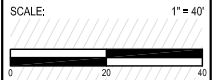
PROJECT:  
**WE ENERGIES  
LAKESHORE H.P.  
REGULATION  
STATION**

LOCATION:  
**WALAS SITE**

CLIENT:  
**we energies** 

RELEASE:  
**PRELIMINARY**

REVISIONS:		
#	DATE	DESCRIPTION




**all in**

SHEET:  
**SITE UTILITY PLAN**


PROJECT MANAGER:	LWN
PROJECT NUMBER:	18.0206.01
DATE:	04/03/2020

SHEET NUMBER:  
**C105**



Dial **811** or (800)242-8511  
www.DiggersHotline.com

### UTILITY NOTES



CAUTION

**PROJECT LIMITS**  
KNOWN UTILITY AND POTENTIAL CONFLICT EXIST WITH EXISTING UNDERGROUND UTILITIES. PRIOR TO UTILITY INSTALLATION, CONTRACTOR TO EXCAVATE AND EXPOSE EXISTING UTILITIES, VERIFY LOCATIONS AND ELEVATIONS, AND CONTACT ENGINEER IF CONFLICTS EXIST WITH PROPOSED CONSTRUCTION AND EXISTING UNDERGROUND UTILITIES..

1. PER PROJECT SPECIFICATIONS AND THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, THE POINT OF COMMENCEMENT FOR THE LAYING OF SEWER PIPE SHALL BE AT THE LOWEST POINT IN THE PROPOSED SEWER LINE. THE PIPE SHALL BE LAID WITH THE BELL END OF THE BELL AND SPOUT PIPE, OR WITH THE RECEIVING GROOVE END OF THE TONGUE AND GROOVE PIPE, POINTING UPGRADE. WHEN A NEW SEWER IS TO BE CONNECTED TO AN EXISTING SEWER NOT TERMINATING IN A MANHOLE, THE CONTRACTOR SHALL UNCOVER THE EXISTING SEWER TO ALLOW ANY ADJUSTMENTS IN LINE AND GRADE TO BE MADE BEFORE PIPE IS LAID.

2. THE UNDERGROUND AND OVERHEAD UTILITY INFORMATION AS SHOWN HEREON IS BASED, IN PART, UPON INFORMATION FURNISHED BY UTILITY COMPANIES, LOCAL MUNICIPALITY, PROPERTY OWNER, AND DIGGERS HOTLINE. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, ITS ACCURACY AND COMPLETENESS CANNOT BE GUARANTEED NOR CERTIFIED TO.

3. GENERAL CONTRACTOR OR THEIR SUB CONTRACTORS SHALL APPLY FOR AND OBTAIN ALL THEIR REQUIRED PERMITS AND APPROVALS PRIOR TO THE START OF THEIR WORK. CONSULT WITH AND OBTAIN FROM ENGINEER COPIES OF ENGINEERING DESIGN APPROVAL PERMITS, INCLUDING BUT NOT LIMITED TO WDNR, STATE OR LOCAL PLUMBING, WDOT, COUNTY, AND STORM WATER MANAGEMENT.

4. GENERAL CONTRACTOR OR THEIR SUB CONTRACTORS SHALL CONTACT DIGGER'S HOTLINE TO ALLOW THEM SUFFICIENT TIME TO LOCATE EXISTING UTILITIES PRIOR TO COMMENCEMENT OF WORK.

5. GENERAL CONTRACTOR OR THEIR SUB CONTRACTORS ARE RESPONSIBLE FOR COORDINATING THEIR WORK WITH ALL OTHER CONTRACTORS.

6. GENERAL CONTRACTOR OR THEIR SUB CONTRACTORS ARE RESPONSIBLE FOR VERIFYING OWNERSHIP OF AND COORDINATING THE DEMOLITION AND / OR RELOCATION / ELEVATION ADJUSTMENT OF ALL EXISTING PUBLIC OR PRIVATE UTILITIES WITHIN THE PROJECT LIMITS THAT MAY BE AFFECTED BY TOPOGRAPHICAL CHANGES, UTILITIES, OR OTHER PROPOSED CONSTRUCTION ON THE PROJECT, INCLUDING BUT NOT LIMITED TO ELECTRICAL / FIBER OPTIC / TELEPHONE / CABLE / GAS / WATER / SANITARY / STORM. DEMOLITION / RELOCATION OF THIS UTILITY WORK MUST BE IN ACCORDANCE WITH ALL STATE, FEDERAL, LOCAL, AND UTILITY OWNER REGULATIONS.

7. FOR ALL WORK, GENERAL CONTRACTOR OR THEIR SUB CONTRACTORS ARE RESPONSIBLE FOR REVIEWING BID DOCUMENTS, VERIFYING THE VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UTILITIES WITHIN THE PROJECT LIMITS, AND INCLUDE IN THEIR CONTRACT THE RELOCATION OF SAID UTILITIES (NOTED OR NOT ON THE BID DOCUMENTS) AS NECESSARY TO PROVIDE PROPER DEPTH/CLEARANCE PER UTILITY OWNER'S REQUIREMENTS.



PROJECT:

LOCATION:

CLIENT:



NORTH ARROW:



PROJECT MANAGER:

MN
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PROJECT NUMBER:

3.01

DATE: \_\_\_\_\_

020

SHEET NUMBER:

# C106



PROJECT:  
**WE ENERGIES  
LAKESHORE H.P.  
REGULATION  
STATION**

LOCATION:  
**WALAS SITE**

CLIENT:



RELEASE:  
**PRELIMINARY**

REVISIONS:

#	DATE	DESCRIPTION

SEAL:



all in

SHEET:  
**SITE EROSION  
CONTROL PLAN**

PROJECT MANAGER: LWN  
PROJECT NUMBER: 19.0206.01  
DATE: 04/03/2020

SHEET NUMBER:

**C201**

## EROSION CONTROL MEASURES

- CONTRACTOR TO INSTALL AND MAINTAIN EROSION CONTROL MEASURES AS INDICATED ON THIS PLAN AND PER THE LATEST WNR TECHNICAL STANDARDS. TECHNICAL STANDARDS MAY BE VIEWED ONLINE AT: [http://dnr.wi.gov/topic/StormwaterStandards/const\\_standards.html](http://dnr.wi.gov/topic/StormwaterStandards/const_standards.html)
- INLETS AND CATCH BASINS SHALL BE PROTECTED WITH INLET FILTERS THAT ARE PHASED IN WITH CONSTRUCTION TO REDUCE SEDIMENT FROM ENTERING THESE AREAS PER WNR TECHNICAL STANDARD 1060 AS FOLLOWS:  
  
ALL FABRIC BARRIERS SELECTED FOR INLET/CATCH BASIN PROTECTION DEVICES SHALL BE SELECTED FROM THE LIST OF APPROVED FABRICS CERTIFIED FOR INLET PROTECTION, GEOTEXTILE FABRIC, TYPE FF IN THE CURRENT EDITION OF THE WEDDOT PRODUCT ACCEPTABILITY LIST, TO OBTAIN THE PAL, PLEASE REFER TO THIS WEBSITE: <https://resources.dot.gov/Documents/doing-business-consultants/const-races/tools/pal/pal-7-14.pdf>  
  
A. INLET PROTECTION SHALL BE AT A MINIMUM INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT OF 1/8 INCH OR GREATER DURING A 24-HOUR PERIOD.  
  
B. PLACEMENT OF SPILL MATERIAL, DEBRIS, SOLS, ETC. ON TOP OF INLETS/CATCH BASINS EVEN IF TEMPORARY, IS STRICTLY DISCOURAGED AND PROHIBITED.  
  
C. SEDIMENT DEPOSITS SHALL BE REMOVED AND THE INLET PROTECTION DEVICE RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT DEPOSITED BETWEEN 1/3 TO 1/2 THE DESIGN DEPTH OF THE DEVICE FOR TYPES A-C, WHEN SEDIMENT IS WITHIN 6" OF THE BOTTOM OF THE OVERFLOW HOLE FOR TYPE D, WHEN THE DEVICE IS NO LONGER FUNCTIONING PER MANUFACTURER'S SPECIFICATIONS. ALL SEDIMENT COLLECTED SHALL BE PROPERLY DISPOSED OF TO PREVENT DISCHARGE INTO AREA WATERWAYS AND WETLANDS.  
  
D. DUE CARE SHALL BE TAKEN TO ENSURE SEDIMENT DOES NOT FALL INTO THE INLETS/CATCH BASINS AND IMPERE THE INTENDED FUNCTION OF THE DEVICE. ANY MATERIAL FALLING INTO THE INLET/CATCH BASIN SHALL BE REMOVED AND PROPERLY DISPOSED OF PER NOTE C ABOVE.  
  
E. INLET FILTERS MAY BE REMOVED AND PROPERLY DISPOSED OF UPON COMPLETION OF CONSTRUCTION, HAULING OR MOVEMENT OF CONSTRUCTION EQUIPMENT THROUGHOUT THE SITE, AND ONCE THE SITE IS ADEQUATELY STABILIZED, UNLESS AS OTHERWISE NOTIFIED BY THE WNR.  
  
3. A TRACKING PAD SHALL BE INSTALLED AS SHOWN ON THE PLAN SHEET PRIOR TO THE START OF CONSTRUCTION TO REDUCE OFF-SITE SEDIMENTATION. TRACKING OF SEDIMENT FROM THE SITE PER WNR TECHNICAL STANDARD 1057 AS FOLLOWS:  
  
A. AGGREGATE USED FOR TRACKING PADS SHALL BE 3 TO 6 INCH CLEAR OR WASHED STONE. ALL MATERIAL TO BE RETAINED BY 3 INCH SIEVE.  
  
B. THE AGGREGATE SHALL BE PLACED IN A LAYER OF AT LEAST 12 INCHES THICK, ON SITES WITH A HIGH WATER TABLE, OR WHERE SATURATED CONDITIONS ARE EXPECTED, TRACKING PAD WILL BE UNDERLAIN WITH WIDOT TYPE R GEOTEXTILE FABRIC.  
  
C. THE TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT (MIN. 15 FEET WIDE) AND BE AT LEAST 50 FEET LONG.  
  
D. VEHICLES TRAVELING ACROSS THE TRACKING PAD SHALL MAINTAIN A SLOW CONSTANT SPEED.  
  
E. ANY SEDIMENT OR ROCK ACCUMULATION ONTO LOCAL ROADWAYS SHALL BE REMOVED BY STREET CLEANING, NOT FLUSHING BEFORE THE END OF EACH WORKING DAY.  
  
F. THE TRACKING PAD SHALL, AT A MINIMUM BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT OF 1/8 INCH OF RAIN OR MORE DURING A 24-HOUR PERIOD.  
  
G. THE TRACKING PAD PERFORMANCE SHALL BE MAINTAINED AT A MINIMUM OF 12" BY SCRAPING OR TOP-DRESSING WITH ADDITIONAL AGGREGATE.
- THE CONSTRUCTION SITE PERIMETER AND TOPSOIL STOCKPILE AREA SHALL BE PROTECTED WITH SILT FENCE AS SHOWN ON THE PLAN SHEET PRIOR TO THE START OF CONSTRUCTION TO INTERCEPT AND REDUCE THE FLOW OF SEDIMENT-LADEN SHEET FLOW RUNOFF FROM THE CONSTRUCTION SITE PER WNR TECHNICAL STANDARD 1056 AS FOLLOWS:  
  
A. SILT FENCE ENDS SHALL BE EXTENDED UPSLOPE TO PREVENT WATER FROM FLOWING AROUND THE ENDS OF THE FENCING AS SHOWN ON THE PLAN SHEET.  
  
B. INSTALLED SILT FENCE SHALL BE A MINIMUM 14 INCHES HIGH AND SHALL NOT EXCEED 28 INCHES IN HEIGHT MEASURED FROM THE INSTALLED GROUND ELEVATION.  
  
C. SILT FENCE SHALL BE SUPPORTED BY EITHER STEEL OR WOOD SUPPORT POSTS.  
  
D. THE MAXIMUM SPACING OF POSTS FOR NONWOVEN SILT FENCE SHALL BE 3 FEET OR FOR WOVEN FABRIC 8 FEET.  
  
E. SILT FENCE SHALL HAVE A SUPPORT CORD AT THE TOP OF THE FENCE.  
  
F. WHERE JOINTS ARE NEEDED, EACH END OF THE FABRIC SHALL BE SECURELY FASTENED TO A POST. THE POSTS SHALL BE WRAPPED AROUND EACH OTHER TO PRODUCE A STABLE AND SECURE JOINT. SILT FENCE SHALL BE OVERLAPPED THE DISTANCE BETWEEN TWO POSTS.  
  
G. A MINIMUM OF 20 INCHES OF THE POSTS SHALL EXTEND INTO THE GROUND AFTER INSTALLATION.  
  
H. SILT FENCE SHALL BE ANCHORED BY SPREADING AT LEAST 8 INCHES OF THE FABRIC IN A 4 INCH WIDE BY 6 INCH DEEP TRENCH, OR 6 INCH DEEP V-TRENCH ON THE UPSLOPE SIDE OF THE FENCE. THE TRENCH SHALL BE BACKFILLED AND COMPACTED. TRENCHES SHALL NOT BE EXCAVATED ANY WIDER OR DEEPER THAN NECESSARY FOR PROPER INSTALLATION.  
  
I. ON THE TERMINAL ENDS OF THE SILT FENCE THE FABRIC SHALL BE WRAPPED AROUND THE POST SUCH THAT THE STAPLES ARE NOT VISIBLE.  
  
J. GEOTEXTILE FABRIC SPECIFICATIONS SHALL MEET VALUES ESTABLISHED IN TECHNICAL STANDARD 1056.  
  
K. SILT FENCE SHALL BE REMOVED ONCE THE SITE IS ADEQUATELY STABILIZED.  
  
L. WHEN PLACING SILT FENCE NEAR TREES, CARE SHALL BE TAKEN TO MINIMIZE DAMAGE TO THE ROOT SYSTEM BY AVOIDING COMPACTION AND ROOT CUTTING WITHIN A RADIUS OF 1.5 FEET MULTIPLIED BY THE INCH DIAMETER OF THE TREE.  
  
M. THE CONTRACTOR MAY FURTHER STRENGTHEN THE SILT FENCE BY USING HAY BALES ON THE DOWN SLOPE SIDE AS NEEDED.  
  
N. SILT FENCE SHALL AT A MINIMUM BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT THAT PRODUCES 1/8 INCH OF RAIN OR MORE DURING A 24 HOUR PERIOD.  
  
O. DAMAGED OR DECOMPOSED SILT FENCE, UNDERCUTTING, OR FLOW CHANNELS AROUND THE END OF BARRIERS SHALL BE REPAIRED OR CORRECTED.  
  
P. SEDIMENT SHALL BE PROPERLY DISPOSED OF ONCE THE DEPOSITS REACH 1/2 THE HEIGHT OF THE FENCE TO PREVENT DISCHARGE INTO AREA WATERWAYS AND WETLANDS.  
  
5. SEEDING AND MULCHING TECHNIQUES SHALL BE USED ON AREAS OF EXPOSED SOIL WHERE THE ESTABLISHMENT OF VEGETATION IS DESIRED. TEMPORARY SEEDING APPLIES TO DISTURBED AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE OR ON WHICH LAND-RESTORING ACTIVITIES WILL NOT BE PERFORMED FOR A PERIOD GREATER THAN 14 CALENDAR DAYS, REQUIRING VEGETATIVE COVER FOR LESS THAN ONE YEAR. SEED AND MULCH SHALL BE UTILIZED THROUGHOUT THE DURATION OF CONSTRUCTION TO ESTABLISH TEMPORARY VEGETATION TO HELP REDUCE EROSION PER WNR TECHNICAL STANDARDS 1059 AND 1058 RESPECTIVELY AS FOLLOWS:  
  
A. TEMPORARY SEEDING REQUIRES A SEEDBED OF LOOSE SOIL TO A MINIMUM DEPTH OF 2 INCHES.  
  
B. FERTILIZER APPLICATION IS NOT GENERALLY REQUIRED FOR TEMPORARY SEEDING. HOWEVER, ANY APPLICATION OF FERTILIZER OR LIME SHALL BE BASED ON SOIL TESTING.  
  
C. THE SOIL SHALL HAVE A PH RANGE OF 5.5 TO 8.0.  
  
D. ALL SEED SHALL CONFORM TO THE REQUIREMENTS OF THE WISCONSIN STATE STATUTES AND OF THE ADMINISTRATIVE CODE CHAPTER ATOP 20.01 REGARDING NOXIOUS WEED SEED CONTENT AND LABELING.  
  
E. SEED SHALL NOT BE USED LATER THAN ONE YEAR AFTER THE TEST DATE ON THE LABEL.  
  
F. IN THE SUMMER-SPRING, CONTRACTOR SHALL USE OATS APPLIED AT 131 LBS./ACRE FOR TEMPORARY SEEDING PURPOSES. IN THE FALL, THE CONTRACTOR SHALL USE ANNUAL RYEGRASS APPLIED AT 80 LBS./ACRE OR WINTER WHEAT OR CEREAL RYE APPLIED AT 131 LBS./ACRE. THE CONTRACTOR SHALL USE STRAW MULCH APPLIED AT 1.5 TONS/ACRE. DORMANT SEED SHALL BE USED WHEN SOIL TEMPERATURE IS CONSISTENTLY BELOW 53 DEGREES FAHRENHEIT (TYPICALLY NOV. 1 UNTIL SNOW COVER ANNUALLY). NEVER PLANT SEED ON TOP OF SNOW. IF COVER IS NEEDED AFTER SNOW FALL, CONTRACTOR MAY CHOOSE TO USE A DRY, NONTXIC TYPE B SOIL STABILIZER PER MANUFACTURER'S SPECIFICATIONS AS REQUIRED BY THE WNR.  
  
G. SEEDING SHALL NOT TAKE PLACE WHEN THE SOIL IS TOO WET.  
  
H. CONTRACTOR MAY CONSIDER WATERING TO HELP ESTABLISH THE SEED. WATER APPLICATION RATES SHALL BE CONTROLLED TO HELP PREVENT RUNOFF AND EROSION.  
  
I. DURING CONSTRUCTION, AREAS THAT HAVE BEEN SEEDDED AND MULCHED SHALL AT A MINIMUM BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT THAT PRODUCES 1/8 INCH OF RAIN OR MORE DURING A 24 HOUR PERIOD. INSPECT WEEKLY DURING THE GROWING SEASON UNTIL VEGETATION IS DENSELY ESTABLISHED OR THE SOIL IS LAID, REPAIR AND RESEED AREAS THAT HAVE EROSION DAMAGE AS NECESSARY.  
  
J. CONTRACTOR IS TO LIMIT VEHICLE TRAFFIC AND OTHER FORMS OF COMPACTION IN AREAS THAT ARE SEEDDED AS MUCH AS POSSIBLE. RE-SEED DRIVEN OVER AREAS AS NEEDED.  
  
K. MULCH SHOULD BE PLACED WITHIN 24 HOURS OF SEEDING.  
  
L. MULCHING OPERATIONS SHALL NOT TAKE PLACE DURING PERIODS OF EXCESSIVELY HIGH WINDS THAT WOULD PRECLUDE THE PROPER PLACEMENT OF MULCH.  
  
M. MULCH THAT IS DISPLACED SHALL BE REAPPLIED AND PROPERLY ANCHORED. MAINTENANCE SHALL BE COMPLETED AS SOON AS POSSIBLE WITH CONSIDERATION TO SITE CONDITIONS.  
  
N. WHEN CHANNEL EROSION MAT IS USED WITHIN CONSTRUCTION SITE DIVERSION AREAS, TECHNICAL STANDARDS 1053 AND 1066 SHALL BE FOLLOWED.  
  
O. WHEN NON-CHANNEL EROSION MAT IS USED TECHNICAL STANDARD 1052 SHALL BE FOLLOWED.  
  
P. DEPENDING ON DURATION OF CONSTRUCTION, THE CONTRACTOR MAY NEED TO RE-SEED AND RE-STABILIZE THE TOPSOIL STOCKPILE AS NECESSARY TO DISCOURAGE SEDIMENT AND EROSION.  
  
6. A COPY OF EROSION CONTROL INSPECTION REPORTS AND THE APPROVED EROSION CONTROL PLANS SHALL BE KEPT ON SITE.  
  
7. CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL PRACTICES BY THE END OF EACH WORKDAY.  
  
8. LOCAL ROADS SHALL BE CLEAN BY THE END OF EACH WORKDAY. CONTRACTOR SHALL HAVE LOCAL ROADS SWEPT WHERE SEDIMENT ACCUMULATES.

## EROSION CONTROL OPERATION SEQUENCE + SCHEDULE

AFTER BIDS ARE RECEIVED AND A MASS GRADING CONTRACTOR IS SELECTED, A PRE-CONSTRUCTION MEETING SHALL TAKE PLACE WITH ALL RELEVANT PARTIES IN ATTENDANCE.

THE GENERAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING AND MAINTAINING ALL SILT FENCES, SEEDING, EROSION MATTING, AND OTHER EROSION CONTROL MEASURES. GENERAL CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PRIOR TO COMMENCING GRADING, GRUBBING, OR OTHER LAND DISTURBING ACTIVITIES. EROSION CONTROL MEASURES MUST BE INSPECTED WEEKLY AND WITHIN 24 HOURS OF EVERY PRECIPITATION EVENT OF 1/8 INCH OR GREATER. IN ADDITION, THE ACTIVE CONTRACTOR SHALL CONDUCT DAILY INSPECTIONS AND DOCUMENT CONDITIONS AND REPAIRS MADE, ALONG WITH DATE, TIME OF INSPECTION, AND WEATHER CONDITIONS IN A DAILY LOG BOOK.

ALL REGULATORY PERMITS, PROJECT PLANS, AND INSPECTION LOGS SHALL BE KEPT ON SITE IN AN ACCESSIBLE LOCATION, SUCH AS A MAILBOX, AVAILABLE TO REGULATORY AGENCIES UPON REQUEST.

CONTRACTORS ARE TO MAINTAIN THE CONSTRUCTION SITE IN A NEAT AND TIDY MANNER FOR THE DURATION OF THE PROJECT.

THE TIMING AND SEQUENCE OF CONSTRUCTION IS SCHEDULED AS FOLLOWS:

- OBTAIN PLAN APPROVAL FROM THE \_\_\_\_\_, AND ALL APPLICABLE PERMITS, INCLUDING EROSION CONTROL PERMIT.
- CONSTRUCTION IS SCHEDULED TO BEGIN IN \_\_\_\_\_, DEPENDING ON WEATHER & GROUND CONDITIONS.
- A GRAVEL TRACKING PAD UNDERLAIN WITH WIDOT TYPE R GEOTEXTILE FABRIC, ALONG WITH A TEMPORARY CULVERT IF NECESSARY, SHALL BE INSTALLED AS SHOWN ON THE PLANS. RE-GRADE EXISTING ROADWAY DITCH AS NECESSARY. IF INSTALLED, THE TEMPORARY CULVERT SHALL BE REMOVED AT END OF CONSTRUCTION ACTIVITIES. IF INDICATED ON PLANS, INSTALL CONSTRUCTION FENCE AND ANY TEMPORARY TRAFFIC CONTROLS.
- SILT FENCE, INLET FILTER PROTECTION, AND TRIANGULAR SILT DIKES SHALL BE INSTALLED AS SHOWN ON THE PLANS, AND INSPECTED PRIOR TO COMMENCING OF ANY LAND DISTURBING ACTIVITIES PER PROJECT PLANS AND DETAILS. SEDIMENT DEPOSITS WILL BE REMOVED FROM BEHIND THE SILT FENCE WHEN THEY REACH A DEPTH OF 1/2 FENCE HEIGHT.
- FOLLOWING INSTALLATION OF THE EROSION CONTROL MEASURES, CONSTRUCT THE STORM WATER POND TO FINISH GRADES WITH CLAY LINER PER PROJECT PLANS AND DETAILS. CONTRACTOR SHALL CONSTRUCT POND INLETS AND OUTLET STRUCTURE FOR USE DURING CONSTRUCTION (REFER TO DETAIL \_\_\_\_\_ ON SHEET \_\_\_\_\_ FOR ADDITIONAL INFORMATION). CONTRACTOR SHALL IMMEDIATELY STABILIZE THE POND BANKS, INLETS, AND OUTLET STRUCTURE.
- STORM WATER POND SHALL, AT A MINIMUM, BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT THAT PRODUCES 1/8 INCH OF RAIN OR MORE DURING A 24-HOUR PERIOD. SEDIMENT SHALL BE REMOVED TO MAINTAIN THE 2 FOOT DEPTH OF THE TREATMENT SURFACE AREA AS MEASURED FROM THE INVERT OF THE PRINCIPAL OUTLET. IF THE OUTLET BECOMES CLOGGED IT SHALL BE CLEANED TO RESTORE FLOW CAPACITY. SEDIMENT TO BE REMOVED AFTER CONSTRUCTION & SITE STABILIZATION IS COMPLETE.
- SITE DEMOLITION OF PAVEMENT, ETC. WILL OCCUR AFTER ALL EROSION CONTROL MEASURES ARE IN PLACE.
- CONSTRUCTION OF THE BUILDING, STARTING WITH THE FOUNDATION, WILL BEGIN IMMEDIATELY AFTER THE SITE DEMOLITION IS COMPLETE IN THE BUILDING PAD AREA.
- TOPSOIL STRIPPING AND ROUGH GRADING WILL FOLLOW. TOPSOIL STOCKPILES WILL BE LOCATED AS SHOWN ON THE PLANS AND BE STABILIZED WITHIN 7 DAYS OF LAY UP. STOCKPILES WILL BE USED FOR FINAL LANDSCAPING. REMAINING STOCKPILES WILL BE REMOVED FROM THE SITE.
- UTILITY INSTALLATION WILL OCCUR NEXT AND CONTINUE UNTIL ALL THE UTILITIES ARE INSTALLED.
- AFTER ROUGH GRADING IS COMPLETE IN HARD SURFACE AREAS SUCH AS ROADWAYS, PARKING LOTS, AND BUILDINGS, THE REQUIRED THICKNESS OF DENSE GRADED BASE COURSE, PER THE PROJECT PLANS AND DETAILS WILL BE APPLIED FOR STABILIZATION. AFTER ROUGH GRADING IS COMPLETE OUTSIDE OF HARD SURFACE AREAS, THE TOPSOIL WILL BE REAPPLIED AND THE LANDSCAPE CONTRACTOR WILL COMPLETE SEEDING/SODDING/FERTILIZING/MULCHING AND INSTALL EROSION MATTING AS PER APPROVED PLANS AND SPECIFICATIONS.
- FINAL SITE STABILIZATION IS ANTICIPATED FOLLOWING THE COMPLETION OF GRADING ACTIVITIES PER WNR TECHNICAL STANDARD 1059. IF SITE STABILIZATION CANNOT BE COMPLETED BY OCTOBER 15, THEN THE USE OF ANIONIC POLYACRYLAMIDE CONFORMING TO WNR TECHNICAL STANDARD 1050 SHALL BE USED. IN ADDITION, ALL SLOPES OF GREATER THAN 20% MUST ADHERE TO THE SCHEDULE IN TABLE 1 BELOW.
- AFTER ALL TOPSOIL HAS BEEN REAPPLIED AND STABILIZATION IS UNDERWAY, ROADWAY, PARKING LOT, AND SIDEWALK BASE MATERIAL WILL BE APPLIED PER PROJECT SPECIFICATIONS.
- THE GENERAL CONTRACTOR WILL REQUEST A FINAL INSPECTION BY THE CITY. UPON APPROVAL, ALL SILT FENCES, INLET FILTER PROTECTION, AND TRIANGULAR SILT DIKES SHALL BE REMOVED, AND ACCUMULATED SEDIMENT IN THE SEDIMENT BASIN/STORM WATER POND SHALL BE DREGGED AND PROPERLY DISPOSED OF. IN ADDITION, THE CONTRACTOR MUST ENSURE THAT THE STORM WATER POND IS RETURNED TO THE SLOPES AND GRADES SHOWN ON THE PROJECT PLANS AND DETAILS.
- IF REQUIRED, FINAL "AS-BUILT" SURVEYS ARE TO BE CONDUCTED BY THE OWNER AND FINAL DOCUMENTS FORWARDED TO THE CITY.
- BARE SOIL LEFT UNDISTURBED FOR 14 CALENDAR DAYS MUST BE TEMPORARILY STABILIZED PER WNR TECHNICAL STANDARD 1059. BY OCTOBER 15, THE SITE SHALL BE STABILIZED PER NOTE 12 ABOVE.
- WE DO NOT ANTICIPATE THE NEED FOR WATERING WITH THIS CONSTRUCTION SCHEDULE, HOWEVER, IF ADEQUATE RAIN IS NOT EXPERIENCED WITHIN ONE WEEK AFTER INITIAL SEED GERMINATION AT ANY POINT DURING THE CONSTRUCTION PROCESS, WATER SHALL BE TRUCKED IN AND APPLIED ONCE PER WEEK.

IF CONSTRUCTION SCHEDULES SHOULD CHANGE SIGNIFICANTLY, THIS PLAN NARRATIVE WILL BE UPDATED AND RESUBMITTED BY THE GENERAL CONTRACTOR TO THE CITY AND WNR.

## DEWATERING PLAN

TO FACILITATE CONSTRUCTION AT THE PROJECT SITE, DEWATERING MAY TAKE PLACE BY THE SELECTED CONTRACTOR. CONTRACTOR TO FOLLOW THESE INSTRUCTIONS WHILE PERFORMING DEWATERING ACTIVITIES ON-SITE. IF DEWATERING IS TO TAKE PLACE AT THE SITE, IT WILL OCCUR BETWEEN STEPS 3 AND 14 OF THE EROSION CONTROL OPERATION SEQUENCE.

NOTE: THESE INSTRUCTIONS DO NOT APPLY TO WATER BEING DISCHARGED DIRECTLY TO GROUNDWATER OR KARST FEATURES OR WELL DEWATERING SYSTEMS. CONTRACTOR SHALL COORDINATE ACCORDINGLY FOR OTHER DEWATERING ACTIVITIES AS DEEMED NECESSARY WITH THE WNR.

- THE CONTRACTOR SHALL ENSURE THAT THE DEWATERING PRACTICES CARRIED OUT MEET OR EXCEED WNR TECHNICAL STANDARD NUMBER 1061.
- A PAN OR OTHER CONTAINMENT DEVICE SHALL BE PLACED UNDERNEATH THE PUMP TO CAPTURE ANY SPILLS, OILS, GASOLINE, ETC. SHALL NOT BE STORED WITHIN WETLANDS, NEAR THE STORMWATER POND, OR OTHER ON-SITE WATER AREAS.
- A TYPE 2 GEOTEXTILE BAG THAT IS NO SMALLER THAN 100 SQUARE FEET; HAS A MAXIMUM APPARENT OPENING SIZE OF 0.212 mm; HAS A GRAB TENSILE STRENGTH OF 300 LBS; MULLEN BURST OF 580 PSI; PERMEABILITY OF 0.2 CM/SEC; FABRIC HEIGHT OF 12 OZ SHALL BE USED. THE GEOTEXTILE BAG AREA AND DOWNGRADE FLOW AREA SHALL CONSIST OF VEGETATED AND UNDISTURBED SOILS.
- POLYMER APPROVED BY THE WNR MEETING WNR TECHNICAL STANDARD 1051 MAY BE USED IN COMBINATION WITH THE DEWATERING BAG IF THE DEWATERING BAG IS NOT DOING AN ADEQUATE JOB ALONE OF FILTERING SEDIMENTS. THE CONTRACTOR SHALL SUPPLY TOXICITY TESTING DATA TO THE WNR BEFORE USE ON-SITE FOR WNR APPROVAL. POLYMER SHALL NOT BE DIRECTLY APPLIED TO SURFACE WATER. CONTRACTOR SHALL OBTAIN THE MATERIAL SAFETY DATA SHEETS (MSDS) FOR THE SELECTED POLYMER, MANUFACTURER'S INFORMATION AND WNR USE RESTRICTIONS (SEE TECHNICAL STANDARD 1051) AND KEEP ALL THIS INFORMATION ON-SITE. CONTRACTOR SHALL ADHERE TO MANUFACTURER AND WNR'S APPLICATION RATES FOR THE POLYMER, WITH THE WNR'S RATE TAKING PRECEDENCE. THE CONTRACTOR SHALL TAKE STEPS TO ENSURE THAT THE POLYMER IS NOT SPILLED. SPILL KITS SHALL BE KEPT ON SITE; THE MANUFACTURER'S RECOMMENDED CLEANUP PROCEDURES SHALL BE FOLLOWED IN THE EVENT OF A SPILL.
- A TARP MAY BE UTILIZED UNDERNEATH THE TYPE 2 GEOTEXTILE BAG AND JUST DOWN SLOPE OF THE BAG TO DISCOURAGE EROSION AND SCOUR.
- A FLOATING SUCTION HOSE OR OTHER FLOTATION METHOD SHALL BE UTILIZED WHEN PUMPING FROM AN AREA WITH STANDING WATER TO AVOID SUCKING SEDIMENT FROM GRADE.
- IF TURBID WATER IS LEAVING THE GEOTEXTILE BAG, THE CONTRACTOR SHALL SHUT OFF THE PUMP TO ALLOW SEDIMENTS TO SETTLE INTO THE BAG. CONTRACTOR SHALL FOLLOW THE MANUFACTURER'S SPECIFICATIONS FOR DETERMINING THE SEDIMENT CAPACITY OF THE GEOTEXTILE BAG USING GOOD COMMON SENSE. SEDIMENT LEVELS CONTAINED IN THE BAG SHALL BE MONITORED TO MEASURE THE LOSS OF STORAGE CAPACITY OVER TIME. THE CONTRACTOR SHALL PROPERLY DISPOSE OF THE GEOTEXTILE BAG IN A WASTE RECEPTACLE ONCE IT IS NO LONGER USED.
- DURING DEWATERING ACTIVITIES THE CONTRACTOR SHALL MONITOR DEWATERING PRACTICES AND KEEP A LOG OF THE FOLLOWING:  
  
A. DISCHARGE DURATION AND SPECIFIED PUMPING RATE.  
  
B. OBSERVED WATER TABLE AT TIME OF DEWATERING.  
  
C. MAINTENANCE ACTIVITIES  
  
D. NAME AND QUANTITY OF POLYMER USED. PRODUCT TYPE, APPLICATION RATE OF POLYMER IN POUNDS/ACRE FEET OF WATER, DATE AND TIME APPLIED, WEATHER CONDITIONS DURING APPLICATION, METHOD OF APPLICATION.

THIS LOG NEEDS TO BE KEPT ON SITE FOR WNR REGULATORY REVIEW. COPIES OF THIS DOCUMENTATION SHOULD BE KEPT IN THE CONTRACTOR'S MONITORING LOG AND MADE AVAILABLE UPON REQUEST.

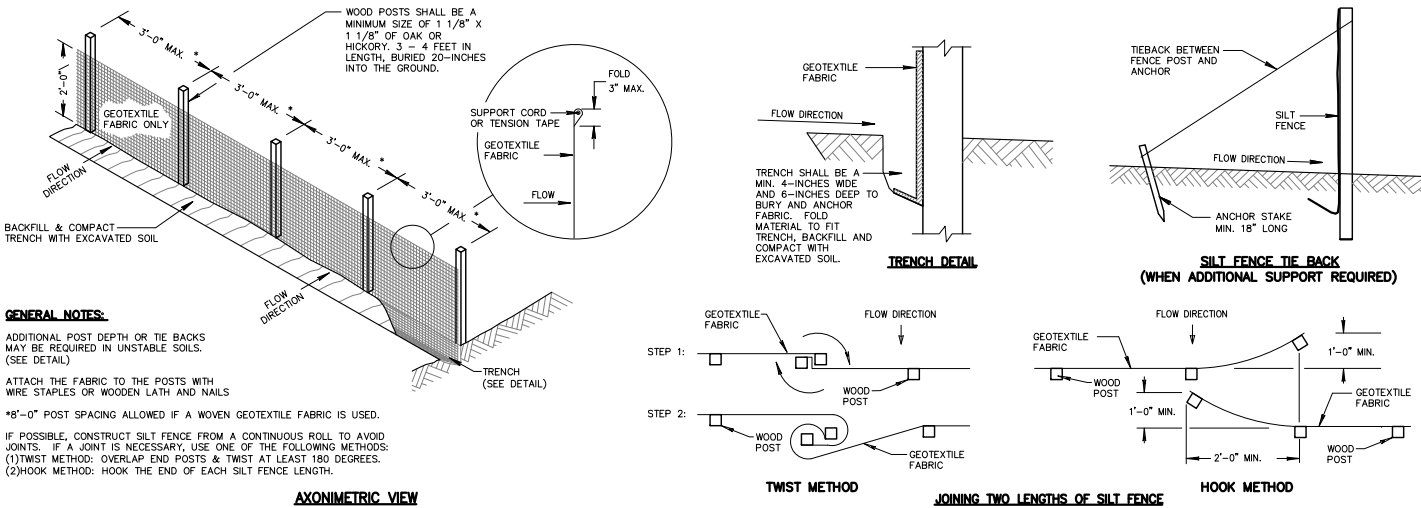
REVIEW THE FOLLOWING FOR MORE INFORMATION:

WNR TECHNICAL STANDARD 1061 FOR DEWATERING - [https://dnr.wi.gov/topic/StormwaterDocuments/DeWatering\\_1061.pdf](https://dnr.wi.gov/topic/StormwaterDocuments/DeWatering_1061.pdf)

WNR TECHNICAL STANDARD 1051 FOR POLYMER - <http://dnr.wi.gov/topic/Stormwater/Documents/gnr1051.pdf>

INSPECT ALL EROSION CONTROL MEASURES PRIOR TO COMMENCING GRADING, GRUBBING OR OTHER LAND DISTURBING ACTIVITIES. EROSION CONTROL MEASURES MUST BE INSPECTED WEEKLY AND WITHIN 24 HOURS OF EVERY PRECIPITATION EVENT OF 0.50 INCH OR GREATER. IN ADDITION THE CONTRACTOR SHALL CONDUCT DAILY INSPECTIONS AND DOCUMENT CONDITIONS AND REPAIRS MADE, ALONG WITH DATE, TIME OF INSPECTION AND WEATHER CONDITIONS IN A DAILY LOG BOOK. THE DAILY LOG BOOK, WEEKLY 0.50 INCH PRECIPITATION RECORDS, APPROVED PLANS, WEDDOT PERMIT & CHAPTER 30 PERMIT SHALL BE KEPT IN AN ACCESSIBLE LOCATION, LIKE A MAILBOX, WITHIN THE STAGING AREA.

AT ABSOLUTELY NO TIME MAY CONSTRUCTION EQUIPMENT, DEBRIS, FILL, ETC. BE PLACED WITHIN WETLANDS, WATERWAYS OR FLOODPLAINS UNLESS IDENTIFIED IN THE PLANS & APPROVED BY DNR/USACE.



### GENERAL NOTES:

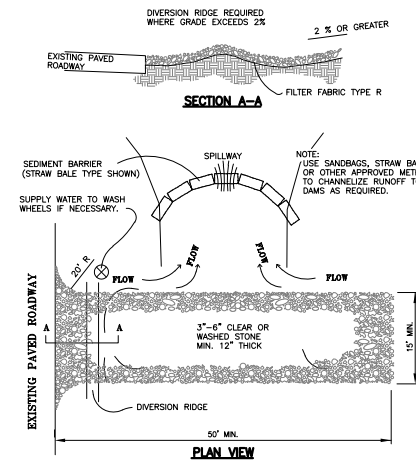
ADDITIONAL POST DEPTH OR TIE BACKS MAY BE REQUIRED IN UNSTABLE SOILS. (SEE DETAIL)

ATTACH THE FABRIC TO THE POSTS WITH WIRE STAPLES OR WOODEN LATH AND NAILS

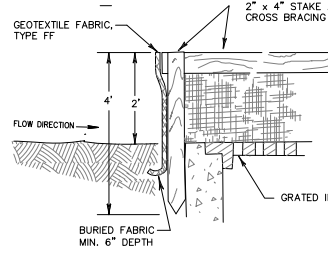
\*8"-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

IF POSSIBLE, CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL TO AVOID JOINTS. IF A JOINT IS NECESSARY, USE ONE OF THE FOLLOWING METHODS:  
(1)TWIST METHOD: OVERLAP END POSTS & TWIST AT LEAST 180 DEGREES.  
(2)HOOK METHOD: HOOK THE END OF EACH SILT FENCE LENGTH.

### AXONOMETRIC VIEW



## 2. STONE TRACKING CONSTRUCTION ENTRANCE



### INLET PROTECTION TYPE A

### INLET PROTECTION TYPE C WITH CURB BOX

### GENERAL NOTES

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

- WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.
- FINISHED SIZE SHALL EXTEND A MINIMUM OF 10' AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL. SIDE FLAPS, WHEN REQUIRED SHALL BE A MIN. OF TWO INCHES LONG. FOLD THE FABRIC OVER AND REINFORCE WITH MULTIPLE STITCHES.

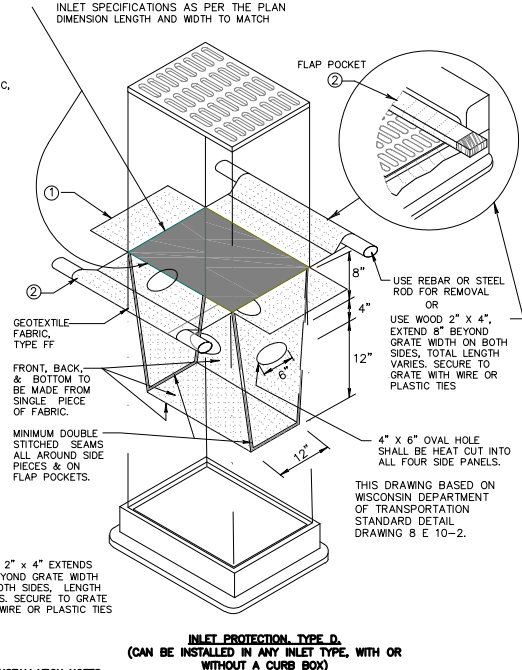
FOR INLET PROTECTION, TYPE C (WITH CURB BOX), FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2"x4". THE REBAR, STEEL PIPE, OR WOOD SHALL BE INSTALLED IN THE FLAP AND NOT BLOCK THE TOP HALF OF THE CURB BOX OPENING.

## 4. INLET PROTECTION DETAIL

N.T.S.

## 3. TRIANGULAR SILT DIKE

N.T.S.



### INSTALLATION NOTES

#### TYPE B & C

TRIM EXCESS FABRIC A MINIMUM OF 10" AROUND GRATE FOR MAINTENANCE OR REMOVAL. THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEW FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.


#### TYPE D

UTILIZE INLET PROTECTION TYPE D IN INLETS DEEPER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

WHERE NECESSARY THE CONTRACTOR MAY CATCH THE BAG, USING PLASTIC ZIP TIES, TO FIT INLETS LESS THAN 30" DEPTH. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.








7711 N. Port Washington Road  
Milwaukee, Wisconsin 53217  
kapurinc.com

PROJECT:  
WE ENERGIES  
LAKESHORE H.P.  
REGULATION  
STATION


LOCATION:  
WALAS SITE

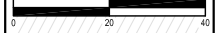
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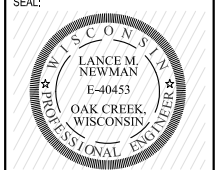
RELEASE:  
PRELIMINARY

REVISIONS:

#	DATE	DESCRIPTION

NORTH ARROW:  


SCALE: 1" = 40'  



SEAL:  


all in

SHEET:  
SITE LANDSCAPE  
PLAN

PROJECT MANAGER: LMN  
PROJECT NUMBER: 18.0206.01  
DATE: 04/03/2020

SHEET NUMBER:  
L101



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# Plant Schedule

Scientific Name		Common Name	Quantity	Spacing	Install Size
Deciduous Trees					
KCT	Gymnocladus dioica	Kentucky Coffee Tree (MALE SPECIES)	1	Per Plan	2.5" caliber B&B
Evergreen Trees:					
BHS	Picea glauca var. densata	Black Hills Spruce	1	Per Plan	5' tall B&B
Evergreen Shrubs					
KCJ	Juniperus x pfitzeriana 'Kallay's Compact'	Kallay Compact Juniper	5	Per Plan	#5 cont.
Deciduous Shrubs					
CPL	Syringa vulgaris	Common Purple Lilac	19	Per Plan	3' B&B
NWR	Rosa rugosa 'Nearly Wild'	Nearly Wild Rose	10	Per Plan	#3 cont.
RTD	Cornus sericea	Red Twig Dogwood	20	Per Plan	3' B&B
Perennials					
BES	Rudbeckia hirta	Black Eyed Susan	23	Per Plan	#1 cont.
HMS	Panicum virgatum 'Heavy Metal'	Heavy Metal Switch Grass	58	Per Plan	#1 cont.
KBL	Liatris spicata 'Kobold'	Kobold Liatris	23	Per Plan	#1 cont.
PDS	Sporobolus heterolepus	Prairie Dropseed	8	Per Plan	#1 cont.
PPC	Heuchera 'Palace Purple'	Palace Purple Coral bell	23	Per Plan	#1 cont.
NOTE: Installation contractor is responsible for verifying plant count from plan. Plan quantities take precedence over list.					

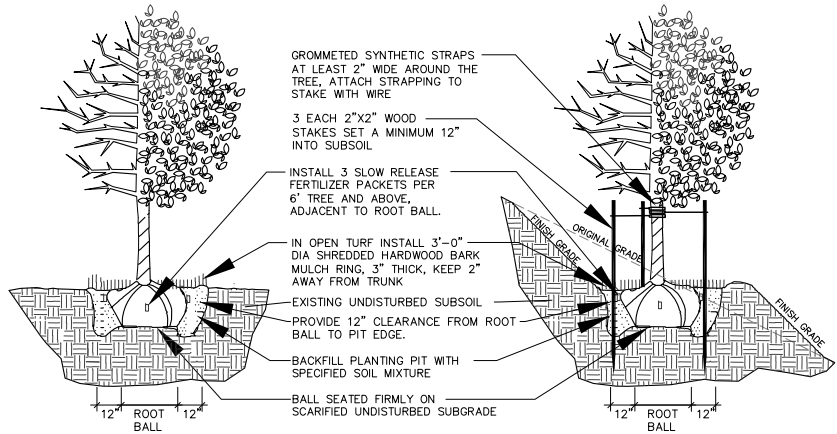
## 1 LANDSCAPE SCHEDULE

REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION

- ALL PLANT MATERIAL SHALL BE OBTAINED FROM A NURSERY LOCATED IN ZONE 5, CONFORM TO APPLICABLE REQUIREMENTS OF THE CURRENT EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, AND BOTANICAL NAMES SHALL BE ACCORDING TO THE CURRENT EDITION OF "STANDARDIZED PLANT NAMES PREPARED BY THE AMERICAN JOINT COMMITTEE ON HORTICULTURE NOMENCLATURE.
- CONTRACTOR TO PROVIDE TO THE LANDSCAPE ARCHITECT SAMPLES OF ALL BARK MULCHES FOR APPROVAL PRIOR TO INSTALLATION.
- BARK MULCH TO BE FRESHLY ACQUIRED HARDWOOD SHREDDED BARK MULCH. NOT DOUBLE MILLED, EXCESSIVE DIRT AND DUST LIKE MATERIAL OR OLD MATERIAL IS NOT ACCEPTABLE.
- ALL PLANTING AREAS TO RECEIVE A 3-INCH THICK LAYER OF HARDWOOD SHREDDED BARK MULCH OVER TYPAR WEED FABRIC WITH SHOVEL CUT EDGE. NO WEED FABRIC IN PERENNIAL AREAS. REFER TO SPECIFICATION 32 93 00 PLANTS FOR ADDITIONAL INFORMATION.
- INSTALL SHOVEL CUT EDGE AROUND ALL INDIVIDUAL TREES AND SHRUBS IN LAWN AREAS AND ALONG PAVEMENT WHERE PLANTING AREAS ABUT TO PREVENT HARDWOOD SHREDDED BARK MULCH FROM SPILLING OUT OF PLANTING AREA.
- CONTRACTOR RESPONSIBLE FOR MAINTENANCE OF PLANT MATERIAL FOR 90 DAYS FROM INSTALLATION, INCLUDING WATERING, WEEDING, ETC. CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF SEEDED AREAS FOR 60 DAYS FROM INSTALLATION, INCLUDING WATERING, WEEDING, ETC. CONTRACTOR TO PROVIDE AND REVIEW MAINTENANCE INSTRUCTIONS WITH THE OWNER PRIOR TO THE COMPLETION OF THESE MAINTENANCE PERIODS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- CLEANLY PRUNE AND REMOVE DAMAGED BRANCHES, DEAD WOOD, AND ROOTS IMMEDIATELY PRIOR TO PLANTING. DO NOT CUT LEADERS OR LEAVE "V" CROTCHES OR DOUBLE LEADERS UNLESS A MULTI-STEM TREE IS SPECIFIED.
- REMOVE BURLAP, WIRE BASKET, ROPE, TWINE, AND ALL SYNTHETIC MATERIAL FROM THE ROOTS, TRUNK, OR CROWN OF PLANT.
- REMOVE EXCESS SOIL ABOVE ROOT COLLAR.
- PLANT TREES AND SHRUBS SO THAT THE ROOT COLLAR IS 2" ABOVE FINISHED GRADE OR SEVERAL INCHES ABOVE GRADE IF PLANT IS INSTALLED IN POOR SOILS.
- PLANT TREES AND SHRUBS WITH SAME ORIENTATION AS WHEN HARVESTED FROM THE NURSERY OR TO SHOWCASE THE MOST AESTHETIC VIEW.
- PLANT ALL TREES WITH THREE SLOW RELEASE FERTILIZER PACKETS, SPACED EQUIDISTANT AROUND THE EDGE OF THE ROOT BALL.
- PLANT ALL SHRUBS WITH ONE SLOW RELEASE FERTILIZER PACKET, PLACED BELOW THE ROOTING SYSTEM.
- WATER AND TAMP BACKFILL AND ROOTS OF ALL NEWLY SET PLANT MATERIAL SO THE SOIL AND ROOTS ARE THOROUGHLY SOAKED AND AIR POCKETS ARE REMOVED.
- FOR INDIVIDUAL TREES & SHRUBS PLANTED IN TURF AREAS, PROVIDE CONTINUOUS 3" SOIL SAUCER TO CONTAIN WATER & MULCH (TREES ON SLOPES SHALL BE SAUCERED ON THE DOWNHILL SIDE)
- INSTALL 3" THICK SHREDDED HARDWOOD BARK MULCH RING 3'-0" DIA. FOR DECIDUOUS TREES AND ALL INDIVIDUAL SHRUBS IN LAWN AREAS, 5'-0" DIA. FOR EVERGREEN TREES. KEEP MULCH 2" AWAY FROM TRUNKS.
- STAKING – ONLY STAKE EVERGREEN TREES 5'-0" OR GREATER IN HEIGHT OR TREES THAT ARE UNABLE TO REMAIN UPRIGHT AFTER PLANTING. TREES WILL BECOME STRONGER FASTER WHEN THE TOP 2/3 OF THE TREE IS FREE TO SWAY. DO NOT ATTACH WIRE DIRECTLY TO TREES OR THROUGH HOSES – UTILIZE GROMMETED, SYNTHETIC STRAPS AT LEAST 2" WIDE AROUND THE TREE, ATTACH STRAPPING TO STAKE WITH WIRE. STAKE ONLY WHEN NECESSARY. STAKES SHOULD BE DRIVEN DEEPLY INTO THE GROUND TO PREVENT DISLODGING. CHECK AT LEAST EVERY THREE MONTHS FOR BINDING OR OTHER PROBLEMS. STAKES AND TIES SHOULD BE REMOVED SIX MONTHS TO ONE YEAR AFTER PLANTING.
- NO MOW TO BE NO MOW FESCUE SEED MIX WITH ANNUAL RYE NURSE CROP FROM PRAIRIE NURSERY, INC. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. PRAIRIE NURSERY ADDRESS: PO BOX 306 WESTFIELD, WI 53964. TELEPHONE: 1-800-476-9453 FAX: 608-296-2741.
- REFER TO SPECIFICATIONS 32 93 00 PLANTS AND 32 92 00 TURF AND GRASSES FOR ADDITIONAL INFORMATION.

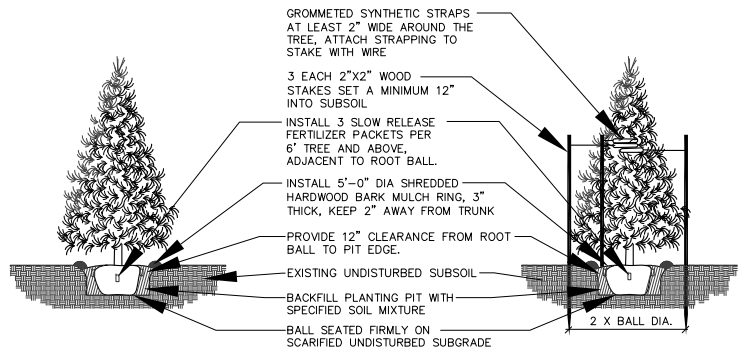
## 2 LANDSCAPE NOTES

REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION



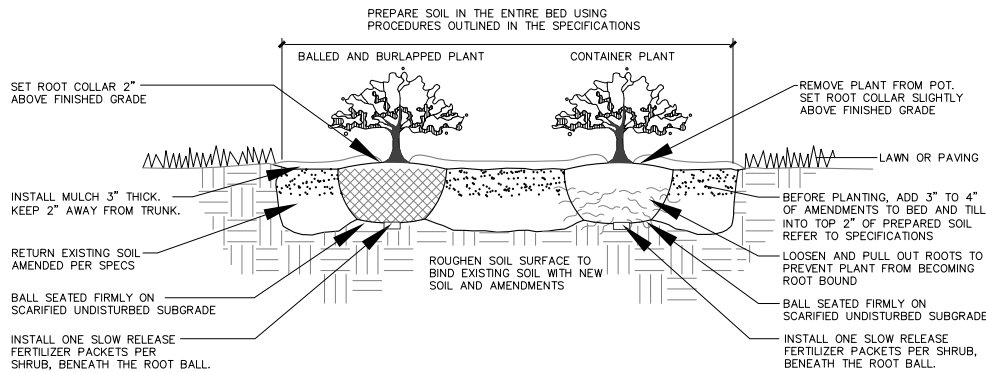
## 3 DECIDUOUS TREE PLANTING, STAKING, & PLANTING ON A SLOPE

N.T.S.



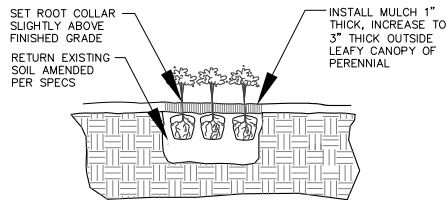
## 4 EVERGREEN TREE PLANTING & STAKING

N.T.S.



## 5 DECIDUOUS & EVERGREEN SHRUB PLANTING

N.T.S.



## 6 PERENNIAL PLANTING

N.T.S.

PROJECT:  
WE ENERGIES  
LAKESHORE H.P.  
REGULATION  
STATION

LOCATION:  
WALAS SITE

CLIENT:



RELEASE:  
PRELIMINARY

REVISIONS:		
#	DATE	DESCRIPTION

SEAL:

all in

SHEET:  
SITE LANDSCAPE  
DETAILS

PROJECT MANAGER: LMN  
PROJECT NUMBER: 19.0206.01  
DATE: 04/03/2020

SHEET NUMBER:  
L201



A PROPOSED REGULATION STATION FOR:

WE ENERGIES - LAKESHORE HP REG. STATION

C.T.H. "KR" & I-94 ■ KENOSHA, WI

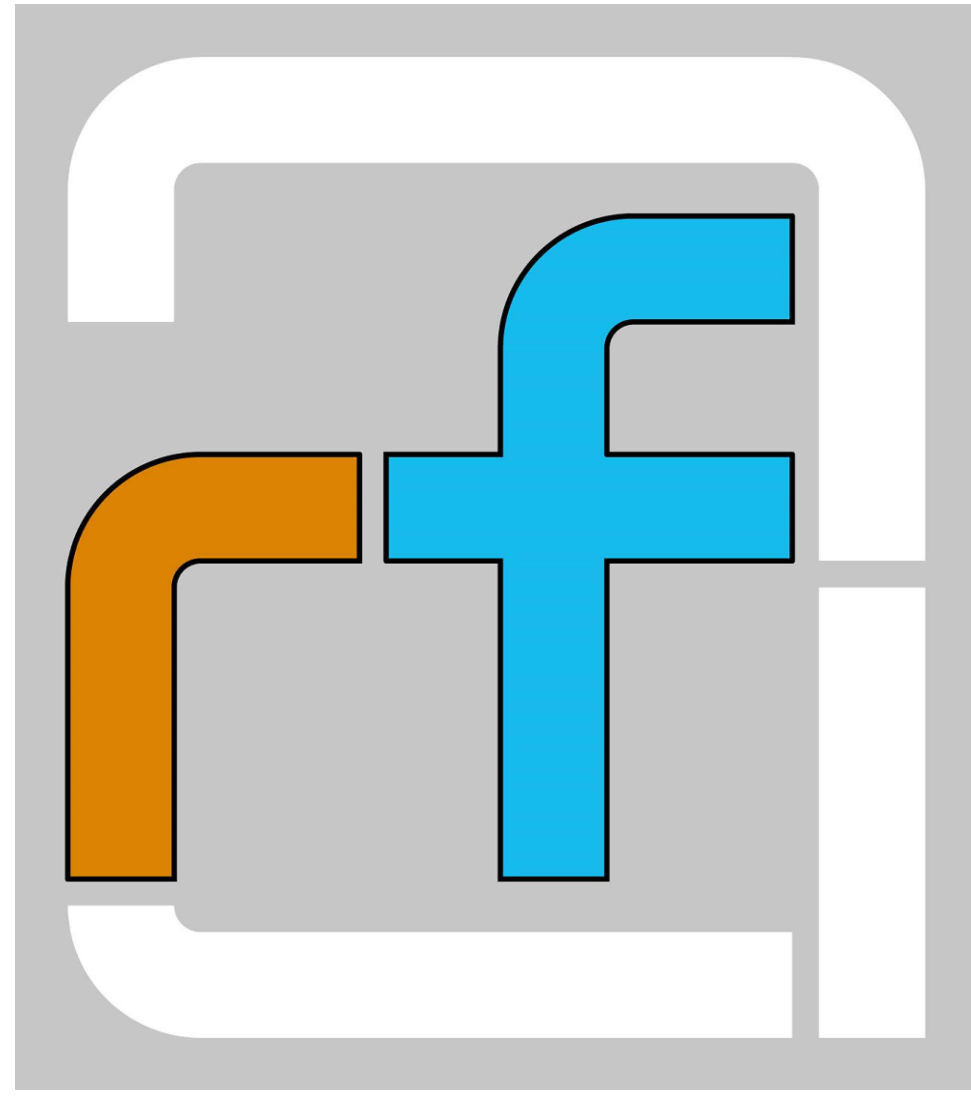
RUDIE | FRANK

ARCHITECTURE

920 GOOLD STREET ■ RACINE, WI 53402 ■ 262.634.5565  
INFO@RUDIEFRANK.COM

PROJECT INFO

OCCUPANCY TYPE: UTILITY  
GROUP: U  
CONSTRUCTION CLASS: IIB  
AREA OF PROJECT: 1,993 Sq. Ft.



REVISIONS

03-27-2020 - REVIEW SET TO OWNER  
03-30-2020 - REVISED SET TO OWNER  
03-30-2020 - ISSUED FINAL PLANS TO OWNER

DATE

MAR. 30, 2020

PROJECT NO.

6-20

SHEET NO.

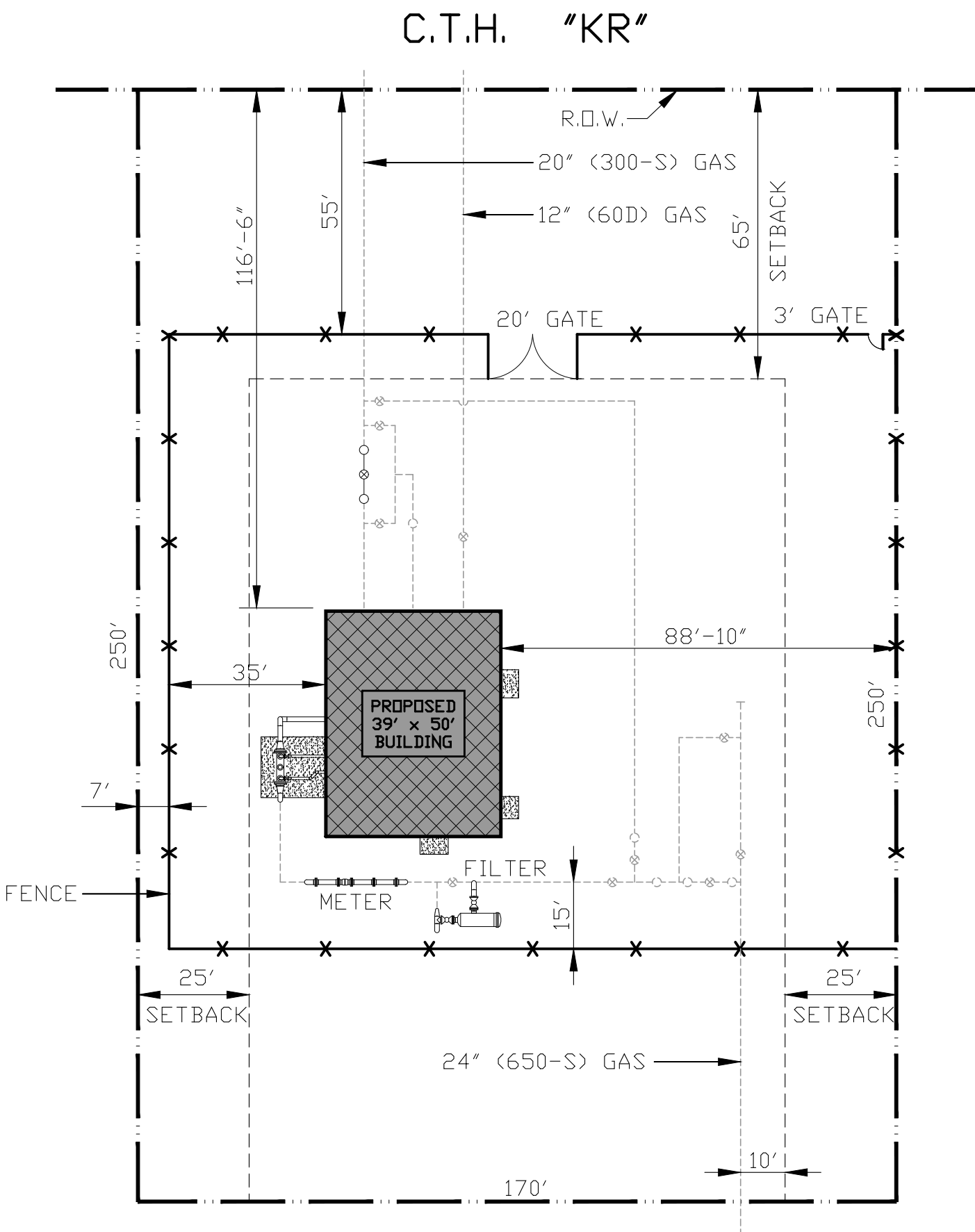
1

WE ENERGIES - LAKESHORE HP REGULATION STATION

DRAWINGINDEX

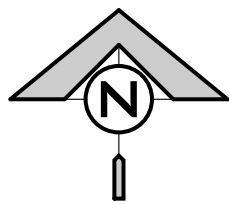
SHEET NO. DESCRIPTION

- 1TITLE SHEET  
SITE PLAN
- 2GENERAL NOTES, SYMBOLS, AND  
ABBREVIATIONS  
FOUNDATION DETAILS
- 3FOUNDATION PLAN  
FLOOR PLAN  
ROOM & DOOR SCHEDULE
- 4POWER / HVAC / LIGHTING PLAN,  
FRAMING PLAN  
STRUCTURAL NOTES  
GROUNDING NOTES
- 5EXTERIOR ELEVATIONS  
DETAILS
- 6CROSS SECTIONS
- 7CROSS SECTIONS  
DETAILS
- 8DETAILS
- 9DETAILS



SITE PLAN

SCALE: 1" = 30'-0"





APPLICABLE CODES

- ALL CONSTRUCTION SHALL BE EXECUTED IN CONFORMANCE WITH THE FOLLOWING:
- BUILDING CODE:
    - 2015 INTERNATIONAL BUILDING CODE (IBC) w/ WISCONSIN AMENDMENTS 8P5 362
    - 2015 INTERNATIONAL EXISTING BUILDING CODE (IEBC) w/ WISCONSIN AMENDMENTS 8P5 366
  - ACCESSIBILITY CODE:
    - 2008 INTERNATIONAL BUILDING CODE (IBC) w/ WISCONSIN AMENDMENTS 8P5 362
    - 2008 ICC/ANSI A117 ACCESSIBLE and USABLE BUILDINGS and FACILITIES
  - ENERGY CODE:
    - 2015 INTERNATIONAL ENERGY CONSERVATION CODE (IECC) w/ WISCONSIN AMENDMENTS 8P5 364
  - GOVERNING LOCAL AND MUNICIPAL CODES

GENERAL NOTES

- THE FOLLOWING GENERAL AND SPECIFIC NOTES SHALL APPLY EQUALLY TO ALL CONTRACTORS AND SUPPLIERS ENGAGED IN EXECUTION OF THE WORK SHOWN ON THESE PLANS. THESE NOTES SUPPLEMENT AND ARE MADE A PART OF THE ENTIRE CONTRACT DOCUMENTS.
- ALL CONSTRUCTION SHALL BE EXECUTED IN CONFORMANCE WITH THE FOLLOWING:
  - PLANS AND SPECIFICATIONS
  - STATE OF WISCONSIN CODES
  - OSHA AND EPA REQUIREMENTS

CONCRETE CONSTRUCTION:

  - AMERICAN CONCRETE INSTITUTE STRUCTURAL AND MISCELLANEOUS STEEL WORK
  - AMERICAN INSTITUTE OF STEEL CONSTRUCTION, CODE OF STANDARD PRACTICE

STEEL JOISTS AND ACCESSORIES:

  - STEEL JOIST INSTITUTE

CONTRACTOR SHALL INSURE FAMILIARITY OF THE ABOVE ITEMS. ARCHITECT INSPECTIONS SHALL BE IN CONFORMANCE WITH THE ABOVE.
- CONTRACTOR TO CROSS CHECK DIMENSIONS AND ELEVATIONS BETWEEN ARCHITECTURAL, MECHANICAL, AND STRUCTURAL PLANS. ARCHITECT TO BE NOTIFIED OF ANY VARIANCE BEFORE CONTRACTOR BEGINS WORK. ALL EQUIPMENT SUPPORTS & ANCHORAGES TO BE CROSS CHECKED WITH MANUFACTURER'S DRAWINGS. CONTRACTOR SHALL VERIFY ALL PROFILES, HEIGHTS, AND DIMENSIONS AT PROJECT PRIOR TO FABRICATION OF ANY MATERIAL AND INFORM THE ENGINEER OF ANY DISCREPANCIES OR FRAYING INTERFERENCES.
- REFER TO ALL ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL PLANS FOR DETAILS OF CONSTRUCTION.
- ALL OPENINGS FOR PLUMBING, ELECTRICAL, HVAC, OR FIRE PROTECTION CONDUIT, PIPING, OR DUCTWORK ARE TO BE REPAIRED BY THE ASSOCIATED TRADE. ALL TRADES SHALL TAKE CARE TO MAKE HOLES ONLY AS LARGE AS NECESSARY. ALL OPENINGS SHALL BE NEATLY CUT. DO NOT PUNCH OR POUND HOLES IN WALL OR ROOF DECK.
- IN NO CASE SHALL STRUCTURAL ALTERATIONS OR WORK AFFECTING A STRUCTURAL MEMBER BE MADE, UNLESS APPROVED BY ARCHITECT. MECHANICAL TRADES MUST SUBMIT LAYOUTS OF ALL SLEEVES PASSING THROUGH STRUCTURAL MEMBERS FOR ARCHITECT'S APPROVAL.
- ASSOCIATED TRADE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY OPENINGS LEFT UNREPAIRED AND WILL BE BACK CHARGED ACCORDINGLY FOR SUCH REPAIRS.
- ALL OPENINGS OR PENETRATIONS THROUGH FIRE RATED CONSTRUCTION SHALL BE APPROPRIATELY FIRE STOPPED, DAMPENDED, OR SEALED AS REQ'D BY CODE.
- ALL CONSTRUCTION MATERIALS TO BE NEW UNLESS SPECIFICALLY NOTED OTHERWISE.
- SHOP DRAWINGS - SUBMIT MINIMUM OF FIVE (5) COPIES FOR APPROVAL ON ALL ITEMS OF EQUIPMENT FURNISHED AS A PART OF THIS PROJECT - ONE (1) SET ELECTRONICALLY. ARCHITECT APPROVAL DOESN'T RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY FOR CORRECTNESS, FIT, OR STRENGTH OF DETAILS. SHOP DRAWINGS MUST CLEARLY SHOW DETAILS FOR CORRECT PLACING OF REINFORCING STEEL, STRUCTURAL STEEL, ETC. CONTRACTOR SHALL REVIEW AND STAMP ALL SHOP DRAWINGS BEFORE SUBMITTING TO ARCHITECT. CONTRACTOR SHALL ALLOW MINIMUM OF ONE WEEK FOR REVIEW OF SHOP DRAWINGS.
- WHERE SECTIONS OR NOTES ARE CALLED FOR IN A CERTAIN PORTION OF THE BUILDING, IT SHALL BE DUPLICATED IN SIMILAR PORTIONS OF THE BUILDING, UNLESS NOTED OTHERWISE.
- EACH CONTRACTOR IS TO OBTAIN AND PAY FOR PERMITS, LICENSES, FEES, ETC. AS MAY BE REQ'D FOR COMPLETION OF HIS PORTION OF THE PROJECT. EACH CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS, AND ALL OTHERS AT THE SITE. EACH CONTRACTOR SHALL INCLUDE NECESSARY DEMOLITION AND REMOVAL OF ALL MATERIAL AS REQ'D TO PERFORM HIS WORK.
- ANY HAZARDOUS MATERIALS ENCOUNTERED DURING DEMOLITION, REMODELING, OR EXCAVATION SHALL BE REMOVED AND/OR CONTAINED IN ACCORDANCE WITH ALL GOVERNING LOCAL, STATE, AND FEDERAL REGULATIONS. NOTIFY ARCHITECT, REMOVAL BY OWNER.
- DO NOT SCALE DRAWINGS
- ALL DIMENSIONS AND ELEVATIONS MUST BE VERIFIED BY CONTRACTOR TO CONFORM WITH THOSE SHOWN ON PLANS.
- IN NO CASE SHALL STRUCTURAL ALTERATIONS OR WORK AFFECTING A STRUCTURAL MEMBER BE MADE, UNLESS APPROVED BY THE ARCHITECT.
- IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE IN ORDER TO INSURE THE SAFETY OF THE BUILDING, WORKMEN, AND OCCUPANTS DURING ERECTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF TEMPORARY BRACING, GUYS OR TIE-DOWNS AS NECESSARY. ALL CONSTRUCTION AND ERECTION MUST CONFORM TO OSHA REQ'D.
- WHERE DETAILS ARE CALLED FOR IN ONE PORTION OF THE BUILDING, THEY SHALL BE DUPLICATED IN SIMILAR PORTIONS OF THE BUILDING.
- DESIGN DRAWINGS SHALL NOT BE USED AS SHOP DRAWINGS.
- REMOVE AND REPLACE ALL EXISTING CONSTRUCTION (ELECTRICAL, MECHANICAL, HVAC, AND ARCHITECTURAL) AS REQ'D IN ORDER TO PLACE NEW STRUCTURAL WORK SHOWN ON THESE DRAWINGS.
- IN THE EVENT OF ANY CONFLICT BETWEEN PLANS, DETAILS, STRUCTURAL NOTES, AND SPECIFICATIONS, CONTRACTOR SHALL BRING THE CONFLICT TO THE ARCHITECT'S ATTENTION OR SHALL BID THE MOST EXPENSIVE ITEM.
- NEW FIREWALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS, AND SMOKE PARTITIONS SHOWN ON PLANS SHALL BE PERMANENTLY IDENTIFIED w/ STENCILING. SEE DETAIL ON SHEET "F" FOR SIZE AND SPACING.

STRUCTURAL NOTES

GENERAL:

IN THE FOLLOWING NOTES, THE TERM "CONTRACTOR" REFERS TO ALL CONTRACTORS, SUBCONTRACTORS, AND SUPPLIERS ENGAGED IN THE EXECUTION OF WORK SHOWN ON THESE PLANS.

ALL CONSTRUCTION SHALL BE EXECUTED IN CONFORMANCE WITH THE FOLLOWING:

- PLANS AND SPECIFICATIONS
- ALL LOCAL BUILDING AND SAFETY CODES
- OSHA REGULATIONS
- WISCONSIN ENROLLED COMMERCIAL BUILDING CODE - LATEST EDITION

CONTRACTOR SHALL CROSS CHECK WITH HVAC AND PLUMBING PLANS FOR ADDITIONAL DETAILS, DIMENSIONS, ELEVATIONS, OPENINGS, INSERTS, BRICK LEDGES, ETC.. NOTIFY ARCHITECT OF ANY CONFLICTS BEFORE BEGINNING WORK.

IN NO CASE SHALL STRUCTURAL ALTERATIONS OR WORK AFFECTING A STRUCTURAL MEMBER BE MADE, UNLESS APPROVED BY THE STRUCTURAL ENGINEER.

IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE IN ORDER TO INSURE THE SAFETY OF THE BUILDING, WORKMEN, AND OCCUPANTS DURING CONSTRUCTION (MEANS & METHODS OF CONSTRUCTION). THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF SHORING, UNDERPINNING, AND TEMPORARY BRACING, AS NECESSARY.

WHERE DETAILS ARE CALLED FOR IN ONE AREA OF THE BUILDING, THEY SHALL BE DUPLICATED AT SIMILAR CONDITIONS, UNLESS SHOWN OTHERWISE.

DESIGN DRAWINGS SHALL NOT BE USED AS SHOP DRAWINGS.

SUBMIT FIVE SETS OF PRINTS OF ALL REBAR, AND LIGHTGAUGE METAL SHOP DRAWINGS TO ARCHITECT FOR APPROVAL PRIOR TO FABRICATING SHOP DRAWINGS SHALL NOT UTILIZE A SHEET SIZE ANY LARGER THAN ARCHITECTURAL DRAWINGS. CONTRACTOR SHALL REVIEW AND STAMP ALL SHOP DRAWINGS BEFORE SUBMITTING TO ARCHITECT. CONTRACTOR SHALL ADDRESS ALL REVISIONS (DIMENSIONS, ETC.) BEFORE SUBMITTING DRAWINGS TO ARCHITECT. SUBMISSIONS NOT BEARING THE CONTRACTOR STAMP WILL BE RETURNED FOR HIS REVIEW PRIOR TO BEING REVIEWED BY KOMP ENGINEERING. CONTRACTOR SHALL ALLOW 10 DAYS IN HIS SCHEDULE FOR THE REVIEW OF SHOP DRAWINGS.

IN THE EVENT OF ANY CONFLICT BETWEEN PLANS, DETAILS, THESE STRUCTURAL NOTES, AND SPECIFICATIONS, CONTRACTOR SHALL BRING THE CONFLICT TO THE ARCHITECT'S ATTENTION OR SHALL BID THE MOST EXPENSIVE INSTALLATION CALLED OUT.

ARCHITECTURAL PLANS SHOW DIMENSIONS AND ELEVATIONS TO SIGNIFICANT WORKING POINTS (COLUMN CENTERLINES, WALL FACES, TOP OF BEAMS, PITCHED BEAM ELEVATIONS AT COLUMN CENTERLINES). SHOP DRAWING DETAILERS AND SUPPLIERS ARE RESPONSIBLE FOR THE DETERMINATION OF ALL DIMENSIONS, PITCHES, ELEVATIONS, ETC., BEYOND THOSE NOTED ABOVE, AS NECESSARY TO THOROUGHLY DETAIL/FABRICATE THEIR WORK. CONTACT ARCHITECT WITH ANY DISCREPANCIES FOUND OR IF ADDITIONAL WORKING POINT INFORMATION IS NEEDED.

IN NO CASE SHALL CHANGES BE MADE TO WORK SHOWN ON PLANS UNLESS FIRST APPROVED IN WRITING BY BOTH KOMP ENGINEERING, INC AND BY THE ARCHITECT. CONTRACTOR REQUESTING CHANGE WILL BE BILLED ON A TIME AND EXPENSE BASIS BY KOMP ENGINEERING, INC. FOR ALL REVISION WORK, FOR ALL NEW SKETCHES PREPARED, AND FOR ALL ADDITIONAL REVIEW TIME RELATED TO THE CHANGES.

BUILDING IS NOT DESIGNED FOR ANY FUTURE VERTICAL OR HORIZONTAL EXPANSION OR FOR ANY ADDITIONAL FUTURE LOADS (DRIFT, PUT'S, HIGH DENSITY FILE STORAGE, ETC.) UNLESS SPECIFICALLY SHOWN ON THESE STRUCTURAL DRAWINGS.

FOUNDATION:

MINIMUM BOT'T OF FOOTING ELEVATION BELOW ADJACENT EXTERIOR GRADE SHALL BE 4'-0". NOTIFY ARCHITECT OF ANY FOOTING ELEVATION CHANGE REQUIRED IN ORDER TO PROVIDE 4'-0" FROST PROTECTION BEFORE PLACING FOOTINGS.

CONTRACTOR SHALL HIRE SOILS ENGINEER TO PERFORM THE FOLLOWING SERVICES:

- FIELD VERIFY 2000 PSF NET ALLOWABLE SOIL BEARING CAPACITY AT BASE OF ALL FOOTING EXCAVATIONS AND BELOW ALL SLABS ON GRADE.
- RECOVER REPRESENTATIVE 50 POUND SAMPLES OF PROPOSED FILL MATERIAL TO BE USED BELOW FOOTINGS AND/OR SLABS ON GRADE.
- MAKE FIELD DENSITY TESTS TO DETERMINE ADEQUACY OF COMPACTED FILL PLACED BELOW FOOTINGS AND SLABS ON GRADE.
- MAKE AT LEAST ONE TEST PER ISOLATED FOOTING PER 24" OF FILL HEIGHT.
- MAKE AT LEAST ONE TEST PER 100 LINEAR FEET OF STRIP FOOTING PER 24" OF FILL HEIGHT.
- MAKE AT LEAST ONE TEST PER 2500 SQUARE FEET OF AREA PER LIFT, BUT IN NO CASE LESS THAN THREE TESTS PER LIFT FOR FILL BELOW SLABS ON GRADE.
- ADVISE CONTRACTOR AND ARCHITECT THE SAME DAY ANY TEST IS MADE WHICH INDICATES FILL MATERIAL AND/OR COMPACTION DOES NOT COMPLY w/ PLANS AND SPECIFICATIONS.

REMOVE ANY EXISTING SOILS ENCOUNTERED BELOW SLABS AND FOOTINGS WHICH HAVE LESS THAN 2000 PSF NET ALLOWABLE SOIL BEARING CAPACITY. PLACE 3/4" CRUSHED STONE FILL COMPACTED TO 95% MODIFIED PROCTOR BELOW SLABS. USE 9" MAXIMUM LIFT. PLACE FILL PER DETAILS ON STRUCTURAL PLANS.

REMOVE ANY EXISTING CONCRETE ENCOUNTERED TO A POINT 2'-0" BELOW NEW SLABS AND FOOTINGS.

ALL BACKFILL WITHIN 3'-0" OF RETAINING WALLS SHALL BE FREE-DRAINING GRANULAR MATERIAL APPROVED BY SOILS ENGINEER AND COMPACTED TO 90% STANDARD PROCTOR.

CENTER PIER AND COLUMN FOOTINGS ON COLUMN CENTERLINES, AND CENTER WALL FOOTINGS ON WALL CENTERLINES, UNLESS SPECIFICALLY DIMENSIONED OTHERWISE.

PROVIDE 4'-0" x 4'-0" STOOP AT ALL EXTERIOR DOORS U.N.O. PROVIDE FND WALL AND FOOTING BELOW STOOPS PER STRUCTURAL DETAILS.

MATERIAL STRENGTHS:

CONCRETE AT 28 DAYS:

- REFER TO SCHEDULE IN "REINFORCED CONCRETE" THIS SHEET.

REINFORCING STEEL:

- F<sub>y</sub> = 60,000 PSI PER ASTM A615 GRADE 60
- SOIL BEARING PRESSURE:
  - 2000 PSF NET ALLOWABLE SOIL BEARING CAPACITY. CONTRACTOR TO HIRE SOILS ENGINEER TO FIELD VERIFY SOIL BEARING CAPACITY BEFORE FOOTINGS ARE PLACED. PROVIDE WRITTEN VERIFICATION TO ARCHITECT UPON REQUEST.

REINFORCED CONCRETE:

ALL CONCRETE WORK SHALL CONFORM TO ACI 318 AND ACI 301. REINFORCING, DETAILING, FABRICATION AND ERECTION SHALL CONFORM TO ACI 315, MANUAL OF STANDARD PRACTICE. (LATEST EDITIONS). SHOP DRAWINGS SHALL BE STATED IN TERMS OF ENGLISH UNITS (FEET AND INCHES); NOT METRIC UNITS.

CONTRACTOR SHALL PROVIDE AND COORDINATE WITH ALL OTHER TRADES FOR SIZE AND LOCATIONS OF ALL OPENINGS, SLEEVES, CURBS, EMBEDS, REVEALS, BLOCK OUT, DRIPS, FINISHES, DEPRESSIONS, ETC. OCCURRING IN CONCRETE WORK. NO PIPE OR DUCTS SHALL BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED OR APPROVED BY STRUCTURAL ENGINEER.

PROVIDE ADDITIONAL BENT BARS, OF SAME SIZE AND SPACING AS HORIZONTAL BARS, AT ALL WALL AND FOOTING CORNERS AND INTERSECTIONS.

SLABS ON GRADE SHALL HAVE 6x6-w14w1.4 WELDED WIRE REINFORCING MESH UNLESS OTHERWISE NOTED. USE FLAT SHEET STOCK. ALL SLABS SHALL BE LAPPED A MINIMUM OF 12". LOCATE MESH 1 1/2" FROM TOP OF SLAB. REINFORCE WITH TWO (2)-#5 3'-0" LONG, AT RE-ENTRANT (INSIDE) CORNERS.

PROVIDE 1/2" APPROVED EXPANSION JOINT MATERIAL, WHERE SLABS ABUT WALLS, COLUMNS AND OTHER VERTICAL SURFACES UNLESS OTHERWISE SHOWN ON PLANS.

POUR FOUR STOPS AS REQUIRED.

A MINIMUM OF 60 DAYS AFTER PLACEMENT OF SLABS ON GRADE, BUT BEFORE PLACEMENT OF ANY FLOOR FINISHES, CONTRACTOR SHALL REPAIR ALL DEFECTS IN SLABS. DEFECTS INCLUDE CRACKS, BUMPS, AND CURLING. REPAIR SHALL CONSIST OF EPOXY INJECTION OF CRACKS, GRINDING OF HIGH SPOTS, AND INSTALLATION OF LEVELING MATERIAL AT LOW POINTS IN SLAB SURFACE.

MAXIMUM LENGTH OF CONCRETE WALL FOUR IS 60 FEET. PROVIDE KEYED CONNECTION JOINT WITH HORIZONTAL WALL. REINFORCEMENT CONTINUOUS THRU JOINT. WATER STOPS SHALL BE PROVIDED FOR RETAINING WALLS AND BASEMENT WALLS. PROVIDE MASONRY C.J.'S IN LINE WITH CONCRETE WALL C.J.'S.

SPICES IN CONTINUOUS REINFORCING: ALL BARS SHALL BE CLASS "B" LAP SPICED UNLESS OTHERWISE NOTED. BRIDGING IN ORDER TO MAINTAIN THE ORDER TO INSURE THE SAFETY OF THE BUILDING, WORKMEN, AND OCCUPANTS DURING ERECTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF TEMPORARY BRACING, GUYS OR TIE-DOWNS AS NECESSARY. ALL CONSTRUCTION AND ERECTION MUST CONFORM TO OSHA REQ'D.

TEST CYLINDERS: CONTRACTOR SHALL RETAIN A MATERIALS TESTING LABORATORY TO CAST AND TO TEST CONCRETE CYLINDERS. ALL TESTING SHALL BE IN ACCORDANCE WITH ACI 318.3 SECTION 4.7. RESULTS OF CYLINDER TESTS SHALL BE SUBMITTED TO ENGINEER AND TO CONTRACTOR SUPPLIER. IN NO CASE SHALL ANY BACKFILL BE PLACED AGAINST WALLS UNTIL TESTS REVEAL WALLS AND FOOTINGS HAVE REACHED A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.

AT A MINIMUM, CONCRETE TEST REPORTS SHALL STATE: 7 DAY COMPRESSIVE STRENGTH, 28 DAY COMPRESSIVE STRENGTH, AIR CONTENT, SLUMP, AMOUNT OF WATER ADDED ON JOB SITE, MIX USED, AND LOCATION OF THE CONCRETE TESTED.

ALL CONCRETE TEST REPORTS SHALL EXPLICITLY STATE WHETHER OR NOT THE TEST RESULTS COMPLY w/ PLANS AND SPECIFICATIONS. ANY TEST NOT COMPLYING SHALL BE REPORTED TO THE ENGINEER AND TO THE CONCRETE SUPPLIER BY PHONE OR FAX THE SAME DAY THE FAILING RESULTS ARE DETERMINED.

MIX PROPORTIONING: FURNISH READY-MIXED CONCRETE IN ACCORDANCE WITH THE FOLLOWING:						
TYP OF CONSTRUCTION	MIN COMP STRENGTH (PSI) DAYS	MIN COMP STRENGTH (PSI) DAYS	MAX SLUMP (INCHES)	MAX AGG. (INCHES)	MIN CEMENT BAGS (C-Y)	AIR ENTRAINED
FOOTINGS, FOUNDATION WALLS	3000	2100	4"	1.5	5.0	NO
INTERIOR SLABS ON GRADE	4000	2800	4"	1.5	5.75	NO
EXTERIOR SLABS	4000	2800	4"	0.75	6.0	YES 6.5%
ALL OTHER CONCRETE	3000	2100	4"	0.75	5.0	NO

CLASS C FLY ASH OR SLAG MAY BE USED AS A POUND FOR POUND REPLACEMENT OF CEMENT UP TO 10% OF THE TOTAL CEMENTITIOUS CONTENT.

WATER/CEMENT RATIO OF CONCRETE USED ON INTERIOR SLABS, INCLUDING PRECAST TOPPINGS, SHALL NOT EXCEED 0.47. WATER/CEMENT RATIO OF CONCRETE USED IN EXTERIOR SLABS SHALL NOT EXCEED 0.42.

ALL SLABS SHALL BE WET-CURED PER ACI RECOMMENDATIONS FOR NO LESS THAN SEVEN DAYS.

CALCIUM CHLORIDE OR ADMIXTURES CONTAINING CHLORIDE ARE NOT PERMITTED IN ANY CONCRETE MIX.

ALL OPENINGS THROUGH CONCRETE WALLS AND SLABS SHALL HAVE 2-#5 BARS PLACED ALONG EACH FACE AND EXTENDING 2'-0" BEYOND CORNERS UNLESS OTHERWISE NOTED. PROVIDE (2)-#5 x 4'-0" DIAGONAL BAR AT EACH CORNER PLACED IN EACH FACE OF WALL OR SLAB.

PIPE OR ELECTRICAL CONDUIT EMBEDDED IN CONCRETE SHALL NOT BE LARGER IN OUTSIDE DIAMETER AT ITS TOP, (OR FITTING) THAN 2 INCHES OR 1/3 THE THICKNESS OF THE SLAB OR WALL, WHICHEVER IS SMALLER.

SLEEVES, CONDUITS, AND PIPES EMBEDDED IN OR PASSING THROUGH SLABS AND WALLS SHALL BE LOCATED AND PLACED SO THAT:

- THEY ARE NOT CLOSER THAN THREE DIAMETERS OR WIDTHS ON CENTER.
- THE CONCRETE COVER IS NOT LESS THAN 1-1/2 INCHES.
- THEY RUN BETWEEN REINFORCING AND DO NOT DISPLACE IT IN ANY MANNER.

CONCRETE COVER FOR REINFORCEMENT SHALL CONFORM TO SECTION 7.7 OF ACI 318.83. UNLESS NOTED OTHERWISE:

OUTSIDE FACE	1 1/2"
WALLS:	
INSIDE FACE	3/4"
PIERS (OVER TIES AND STIRRUPS)	1 1/2"
FOOTINGS:	
TOPS	2"
SIDES	2"
BOTTOM	2"

VIBRATION: CONCRETE SHALL BE PLACED WITH THE AID OF MECHANICAL VIBRATING EQUIPMENT, AND SHALL BE APPLIED DIRECTLY TO THE CONCRETE. THE INTENSITY OF VIBRATION SHALL BE SUFFICIENT TO CAUSE FLOW OR SETTLEMENT OF THE CONCRETE IN PLACE. VIBRATION SHALL BE APPLIED AT THE POINT OF DEPOSE & IN THE AREA OF FRESHLY PLACED CONCRETE. IT SHALL BE OF SUFFICIENT DURATION TO ACCOMPLISH THOROUGH COMPACTION OR COMPLETE EMBEDMENT OF THE MIX. IT SHALL SECURE EVEN AND DENSE SURFACES FREE FROM AGGREGATE POCKETS OR HONEYCOMB.

CONCRETE SURFACE REPAIRS: REPAIR AND PATCH DEFECTIVE AREAS WITH PROPRIETARY PATCHING COMPOUND IMMEDIATELY AFTER REMOVAL OF FORMS, BUT ONLY WHEN AND AS ACCEPTABLE TO ENGINEER. RESURFACE HONEYCOMBS, ROCK POCKETS AND VOIDS OVER 1/4" IN ANY DIMENSION THOROUGHLY CLEAN AND DAMPEN THE AREA. BE RESURFACED WITH WATER THEN APPLY PROPRIETARY PATCHING COMPOUND APPROVED BY ARCHITECT.

FLOOR FLATNESS/LEVELNESS TOLERANCES: CONCRETE FLOOR SLAB SURFACES SHALL CONFORM TO THE FOLLOWING SPECIFIED VALUES:

CONCRETE SLABS ON GRADE	F <sub>s</sub> = 28	F <sub>l</sub> = 20
ALL OTHER AREAS	F <sub>s</sub> = 35	F <sub>l</sub> = 25

F<sub>s</sub> AND F<sub>l</sub> - VALUES SHALL BE OBTAINED IN ACCORDANCE w/ ACI PROCEDURES.

CLADDING BACKUP SYSTEM AND LIGHTGAUGE STEEL FRAMING:

ALL STUDS AND JOIST FRAMING MEMBERS, RUNNERS, END TRACKS, BRIDGING AND DIAGONAL BRACING SHALL BE OF THE TYPE, SIZE AND GAUGE SHOWN ON THE PLANS WITH MINIMUM STEEL STRENGTH AND SECTION PROPERTIES AS MANUFACTURED BY THE CLARK STEEL FRAMING COMPANY. ANY ALTERNATIVE SHALL BE EQUAL OR BETTER AND SHALL BE APPROVED BY ENGINEER.

ALL LIGHT GAUGE STEEL FRAMING SHALL CONFORM TO THE AISI SPECIFICATION (LATEST EDITION) AND BE WELDED IN ACCORDANCE WITH AWS D1.3

SUBMIT STRUCTURAL DESIGN WITH SUPPORTING STAMPED CALCULATIONS, DETAILS, CONNECTIONS AND LAYOUT PREPARED BY A PROFESSIONAL ENGINEER LICENSED IN WISCONSIN. MEMBER SIZES SHOWN ARE MINIMUM AND SHALL BE INCREASED AS REQUIRED BY DESIGN. NO EXTRAS WILL BE PAID FOR PROVIDING SIZES GREATER THAN MINIMUMS SHOWN ON PLANS. ALL CONNECTIONS SHALL CONFORM TO MANUFACTURER'S REQUIREMENTS. CONNECTIONS, INCLUDING STEEL ANGLE TO STUD, BOTTOM TRACK TO STUD, WIND DIAGONAL BRACE TO STUD AND STRUCTURE, ETC. SHALL BE WELDED. USE OF SCREWS IS NOT ALLOWED, UNLESS APPROVED IN WRITING BY ARCHITECT/ENGINEER.

SHOP DRAWINGS SHALL BEAR THE NAME, ADDRESS, PHONE NUMBER, AND FAX NUMBER OF THE BACK-UP DESIGNER. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS INCLUDING ELEVATIONS. SHOP DRAWINGS MUST ALSO CONTAIN SECTIONS AT ALL FLOOR AND ROOF CONDITIONS. ALL SECTIONS MUST BE CUT ON SHOP DRAWING ELEVATIONS. USE A NUMBERING SYSTEM DIFFERENT FROM THAT USED ON THE ARCHITECTURAL/STRUCTURAL PLANS.

ALL EXTERIOR MEMBERS SHALL BE 16 GA. OR HEAVIER AND MEET THE MINIMUM REQUIREMENTS OF ASTM C955, GRADE D WITH A MINIMUM YIELD OF 50,000 PSI.

ALL TRACKS, BRIDGING AND ACCESSORIES SHALL MEET THE REQUIREMENTS OF ASTM C955, GRADE A WITH A MINIMUM YIELD OF 35,000 PSI.

ALL MATERIAL SHALL HAVE A MINIMUM G90 GALVANIZED COATING MEETING THE REQUIREMENTS OF ASTM A525.

WALL STUDS SHALL BE DESIGNED FOR L/720 DEFLECTION BASED ON STUD ACTING ALONE AT BRICK VENEER AND L/360 DEFLECTION FOR OTHER CLADDING MATERIALS.

COLD FORMED STEEL DESIGNER SHALL MAKE PERIODIC ON-SITE INSPECTIONS TO INSURE CONSTRUCTION CONFORMS TO DESIGN AND SUBMIT WRITTEN VERIFICATION TO THE ARCHITECT/ENGINEER UPON REQUEST.

PROVIDE BRIDGING NOT TO EXCEED 5' o/c. FOR NON-BEARING WALLS AND 3'-4" o/c FOR BEARING WALLS.

DIAGONAL X-BRACING ASSEMBLIES SHALL BE INSTALLED WHERE SHOWN ON THE PLANS. CONTINUOUS BRIDGING SHALL BE INSTALLED OVER ENTIRE LENGTH OF BUILDING INCLUDING THRU DOORWAYS UNTIL DRYWALL IS INSTALLED ON THESE WALLS. REMOVE BRIDGING AT DOORWAYS AFTER DRYWALL IS INSTALLED.

CONTINUOUS HORIZONTAL BRIDGING, STEEL STUD TRACKS, LOAD DISTRIBUTION MEMBERS AND DIAGONAL BRACING ARE PERMANENT, SHALL BE INSTALLED BEFORE STEEL JOISTS AND WOOD ROOF TRUSSES AND SHALL BE NOT DAMAGED OR REMOVED.

AT STEEL STUD BEARING WALLS, ALL STEEL TRUSSES SHALL BEAR DIRECTLY OVER A STEEL STUD EXCEPT AT LINTELS OVER OPENINGS OR ON LOAD DISTRIBUTION MEMBERS OVER STEEL STUDS.

PROVIDE SLIDE CLIPS OR SLIP TRACKS WHERE STUDS ARE SUPPORTED AT THEIR BASE AT ONE LEVEL AND AT THE TOP BY A DIFFERENT LEVEL.

DESIGN, SUPPLY, AND INSTALL ANY HOT ROLLED OR COLD ROLLED SECTION NEEDED TO PROVIDE A COMPLETE CLADDING BACK-UP SYSTEM.

DESIGN OF THE BUILDING SUPERSTRUCTURE IS ENTIRELY THE RESPONSIBILITY OF THE SUPPLIER. THIS INCLUDES THE DESIGN OF ALL ANCHOR BOLTS, EXTERIOR METAL PANELS, METAL PANEL WIND GIRTS, CONNECTION ANGLES AND HARDWARE FOR METAL PANELS, ETC. METAL BUILDING DRAWINGS SHALL SPECIFICALLY DETAIL ANCHOR BOLT TYPE, QUANTITY, LOCATIONS, EMBEDMENT, HOOKS/STUDS, PROJECTIONS, ETC.

CONTRACTOR SHALL COORDINATE ALL MECHANICAL, PLUMBING, AND ELECTRICAL LOADS WITH METAL BUILDING DESIGNER.

BUILDING DESIGN SHALL BE FOR LOADS STATED ON THE STRUCTURAL PLANS, AS WELL AS FOR CODE MINIMUMS. DETERMINED BY THE METAL BUILDING SUPPLIER.

CONTRACTOR SHALL DETERMINE SUPPLIER OF ALL MATERIALS.

ALL SHOP DRAWING PLANS SHALL BE TO SCALE AND SHALL UTILIZE THE SCALE USED ON THE STRUCTURAL DRAWINGS. ALL PLANS SHALL SHOW A NORTH ARROW. PLANS SHALL INCLUDE A COLUMN GRID (IN TWO DIRECTIONS) AND SHALL STATE WHAT THE GRID LINE IS TO (E.G., COLUMN CENTERLINE, FACE OF COLUMN, ETC.). COLUMN WIDTH AND DEPTH AT SLAB ON GRADE LEVEL MUST BE SPECIFICALLY SHOWN ON PLANS.

ANCHOR BOLTS SHALL BE THREADED AT THE BOTTOM AND SHALL HAVE A NUT AND WASHER TACK WELDED AT THE EMBEDDED END.

SHOP DRAWINGS SHALL INCLUDE DETAILS OF ALL COLUMN SETTINGS AND SHALL STATE: BASE PLATE SIZE AND LOCATION, ANCHOR BOLT SIZE, LENGTH, AND LOCATION.

PROVIDE LIGHT GAUGE SHOP DRAWINGS SHOWING:

- ALL MEMBER SIZES, LOCATIONS, AND ELEVATIONS.
- ANCHOR BOLT SIZES, LENGTHS, HOOKS, STEEL TYPE, AND LOCATIONS.
- BLOWUP DETAILS OF MEMBER CONNECTIONS.

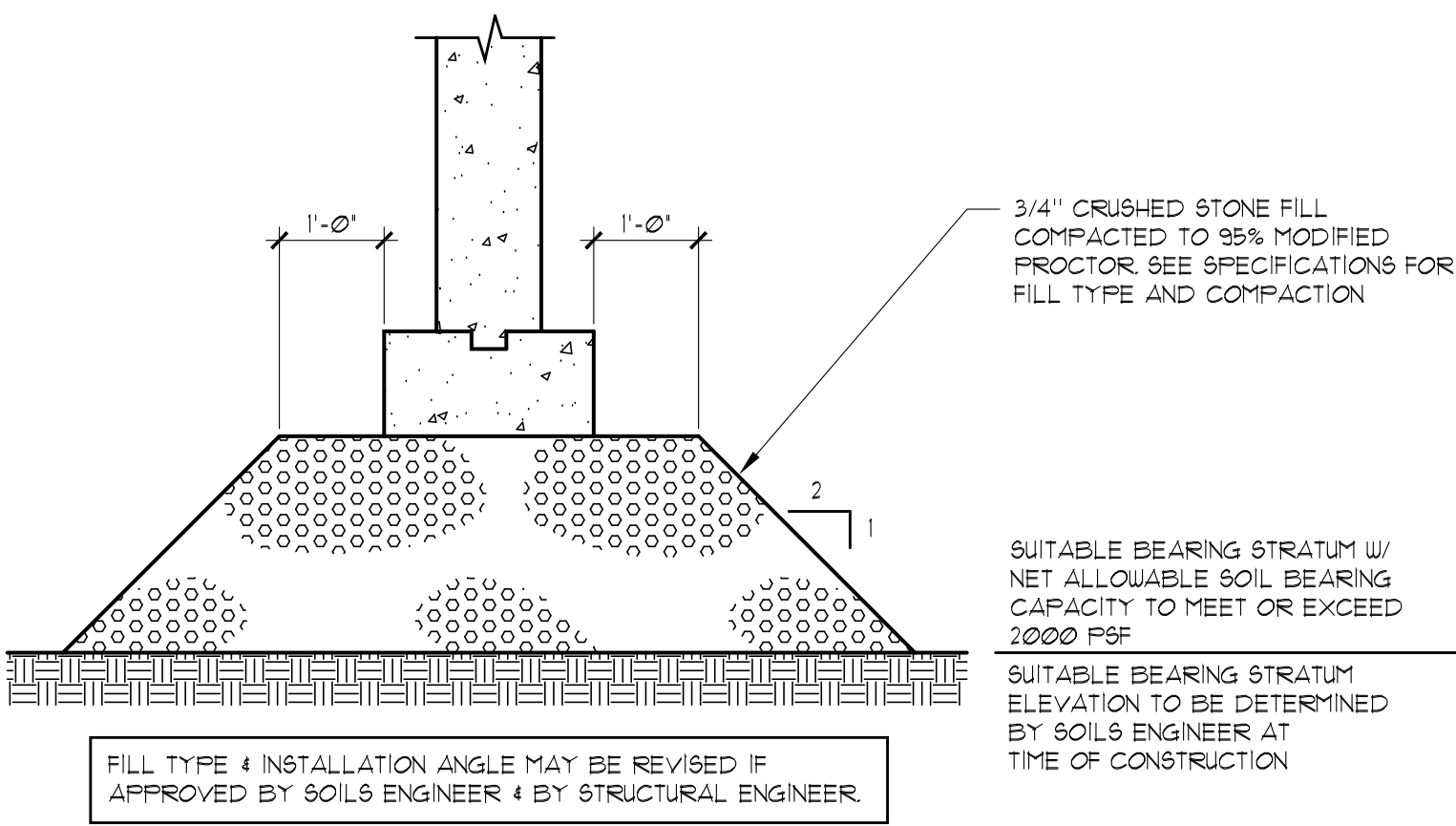
SHOP DRAWINGS SHALL BE DRAWN TO THE SAME SCALE AS THE STRUCTURAL PLANS.

SHOP DRAWINGS SHALL CONTAIN A NORTH ARROW.

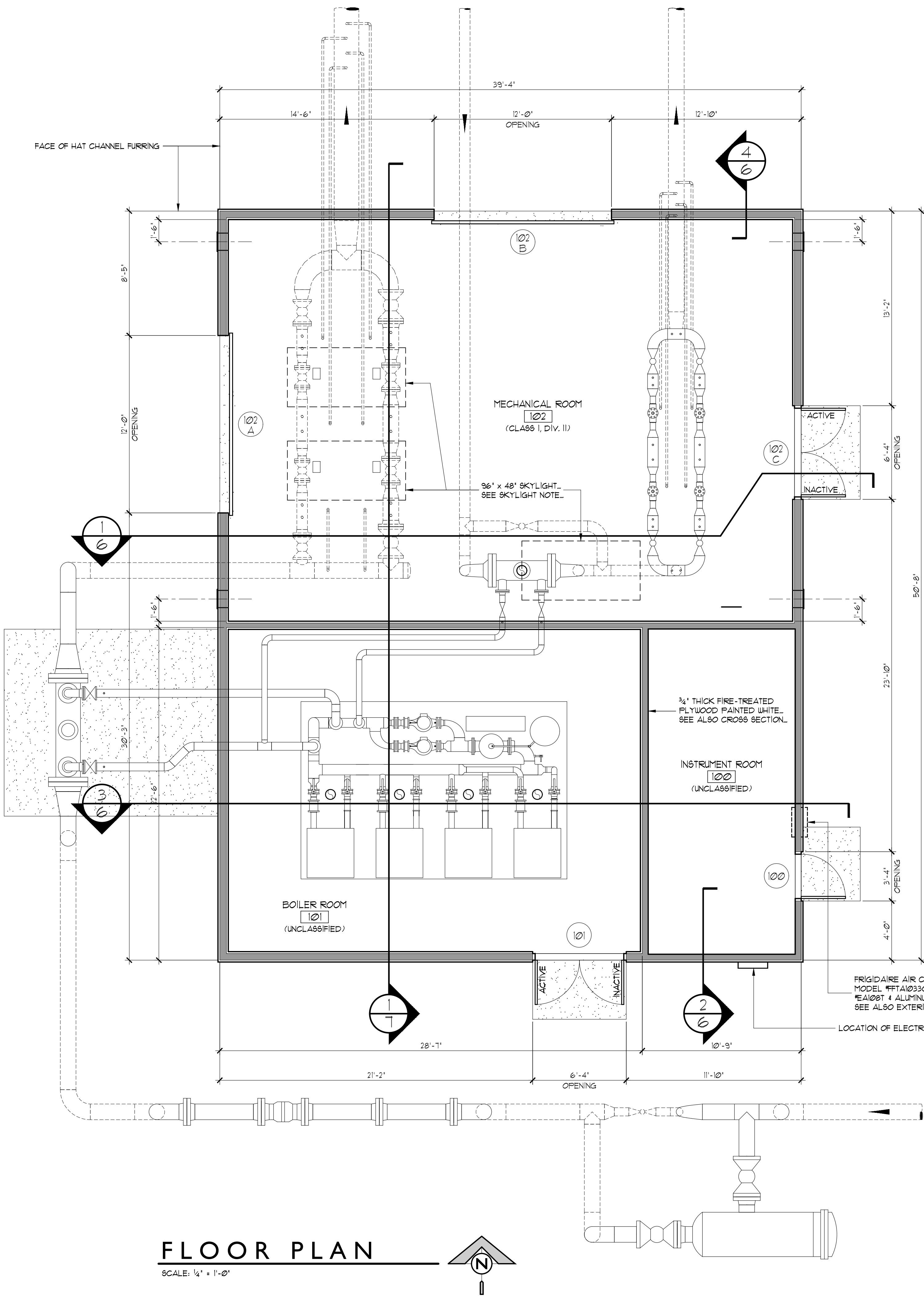
LIGHT GAUGE DESIGN SHALL ACCOUNT FOR ALL LIVE LOADS SPECIFIED BY CODE BUT SHALL IN NO CASE BE LESS THAN 30 PSF LIVE LOAD.

ALTERNATE FOUNDATION DETAILS

USE "A" (OR, AT CONTRACTOR'S OPTION, "B") ONLY IF SOILS w/ LESS THAN 2000 PSF BEARING CAPACITY ARE ENCOUNTERED BELOW B/F/G ELEVATION.







**NOTE:**  
LIGHTGAGE METAL SUPPLIER IS RESPONSIBLE FOR THE DESIGN OF ALL WORK ABOVE FOUNDATION.

**SKYLIGHT**

UNITS SHALL BE FIXED THERMOFORMED ACRYLIC DOUBLE DOMED W/ EXTRUDED INSULATED CURB SIMILAR TO WESCO PRODUCTS, INC. "MODEL CS".

SIZE OF SKYLIGHT AS INDICATED ON FLOOR PLAN.

COLOR TO BE AS SELECTED BY OWNER.

SKYLIGHT SHALL BE FACTORY TESTED TO SUPPORT, WITHOUT FAILURE, A 40 PSF POSITIVE AND 20 PSF NEGATIVE TEST PRESSURE.

SKYLIGHT SHALL HAVE INTEGRAL CONDENSATION GUTTER AND WEEP HOLES FOR DRAINING ANY MOISTURE OUTSIDE.

FURNISH AND INSTALL FLASHING AROUND SKYLIGHT UNIT IN ORDER TO PROVIDE WATERTIGHT CONSTRUCTION.

**FOUNDATION NOTES**

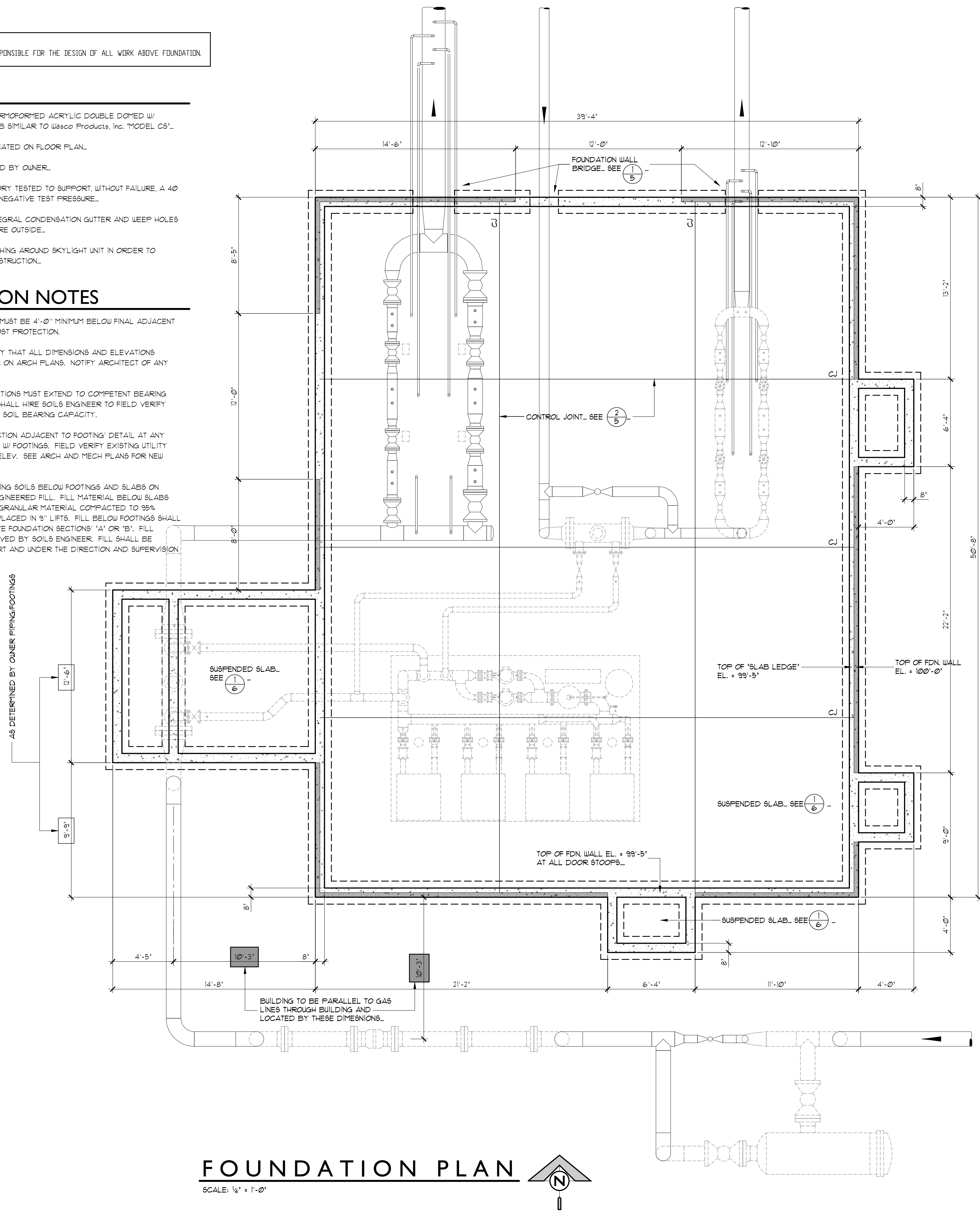
BOTTOM OF ALL FOOTINGS MUST BE 4'-0" MINIMUM BELOW FINAL ADJACENT EXTERIOR GRADE FOR FROST PROTECTION.

CONTRACTOR SHALL VERIFY THAT ALL DIMENSIONS AND ELEVATIONS CONFORM TO THOSE SHOWN ON ARCH. PLANS. NOTIFY ARCHITECT OF ANY DISCREPANCIES.

EXCAVATIONS FOR FOUNDATIONS MUST EXTEND TO COMPETENT BEARING MATERIAL. CONTRACTOR SHALL HIRE SOILS ENGINEER TO FIELD VERIFY 2000 PSF NET ALLOWABLE SOIL BEARING CAPACITY.

FOLLOW BURIED CONSTRUCTION ADJACENT TO FOOTING DETAIL AT ANY UTILITY LINE INTERFERENCE W/ FOOTINGS. FIELD VERIFY EXISTING UTILITY LINE SIZE, LOCATION, AND ELEV. SEE ARCH AND MECH PLANS FOR NEW UTILITY LINES.

REMOVE UNSUITABLE EXISTING SOILS BELOW FOOTINGS AND SLABS ON GRADE. REPLACE WITH ENGINEERED FILL. FILL MATERIAL BELOW SLABS SHALL BE FREE DRAINING GRANULAR MATERIAL COMPACTED TO 95% MODIFIED PROCTOR AND PLACED IN 9" LIFTS. FILL BELOW FOOTINGS SHALL BE AS SHOWN IN ALTERNATE FOUNDATION SECTIONS "A" OR "B". FILL MATERIAL MUST BE APPROVED BY SOILS ENGINEER. FILL SHALL BE PLACED PER SOILS REPORT AND UNDER THE DIRECTION AND SUPERVISION OF THE SOILS ENGINEER.



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

**FOUNDATION PLAN**  
SCALE: 1/4" = 1'-0"

### ROOM FINISH SCHEDULE

NO.	ROOM NAME	FLOOR	BASE	WALLS				CEILING	REMARKS
				NORTH	SOUTH	EAST	WEST		
100	INSTRUMENT ROOM	SEALED CONCRETE	NONE	PAINTED GYPSUM BD.	PAINTED GYPSUM BD.	PAINTED GYP. BD. W/ FLYWOOD	PAINTED GYPSUM BD.	PAINTED GYPSUM BD.	
102	MECHANICAL ROOM	SEALED CONCRETE	NONE	PRE-FINISHED METAL SIDING	PRE-FINISHED METAL SIDING	PRE-FINISHED METAL SIDING	PRE-FINISHED METAL SIDING	EXPOSED STRUCTURE ABOVE	
103	BOILER ROOM	SEALED CONCRETE	NONE	PRE-FINISHED METAL SIDING	PRE-FINISHED METAL SIDING	PRE-FINISHED METAL SIDING	PRE-FINISHED METAL SIDING	PAINTED GYPSUM BD.	

### DOOR SCHEDULE

NO.	DOOR SIZE	DOOR					FRAME				DETAILS	HARDWARE
		TYPE	MATERIAL	FINISH	GLASS	LOUVER	TYPE	MATERIAL	FINISH	GLASS		
100	3'-0" WIDE x 7'-0" HIGH	FLUSH	18 GAUGE INSULATED HOLLOW MTL.	PAINT	---	---	2" WIDE JAMB & HEAD	16 GAUGE HOLLOW MTL.	PAINT	---	1 2 3 4 8 8 8 7	1 1/2" PAIR BUTTS, PANIC EXIT HARDWARE W/ MORTISE LOCK DEVICE & LEVER TRIM, CLOSER W/ HOLD-OPEN, FULL WEATHERSTRIPPING, ALUMINUM THRESHOLD.
101	PAIR OF 3'-0" WIDE x 7'-0" HIGH	FLUSH	18 GAUGE INSULATED HOLLOW MTL.	PAINT	---	24" WIDE x 24" HIGH	2" WIDE JAMB & HEAD	16 GAUGE HOLLOW MTL.	PAINT	---	2 3 5 5 8 8 8 7	EACH DOOR: 1 1/2" PAIR BUTTS, PANIC EXIT HARDWARE W/ SURFACE MOUNTED VERT. ROD DEVICE, CLOSER W/ HOLD-OPEN, FULL WEATHERSTRIPPING, ALUMINUM THRESHOLD. ACTIVE DOOR: NIGHT LATCH. INACTIVE DOOR: DUMPTY LEVER TRIM, ASTRAL.
102A	12'-0" WIDE x 8'-0" HIGH COILING DOOR	---	22 GAUGE INSULATED HOLLOW MTL.	PER MANUFACTURER	---	---	2" WIDE JAMB & HEAD	16 GAUGE HOLLOW MTL.	PAINT	---	1 2 3 6 8 8 8 7	
102B	12'-0" WIDE x 8'-0" HIGH COILING DOOR	---	22 GAUGE INSULATED HOLLOW MTL.	PER MANUFACTURER	---	---	2" WIDE JAMB & HEAD	16 GAUGE HOLLOW MTL.	PAINT	---	1 2 3 6 8 8 8 7	
102C	PAIR OF 3'-0" WIDE x 7'-0" HIGH	FLUSH	18 GAUGE INSULATED HOLLOW MTL.	PAINT	---	---	2" WIDE JAMB & HEAD	16 GAUGE HOLLOW MTL.	PAINT	---	2 3 5 5 8 8 8 7	EACH DOOR: 1 1/2" PAIR BUTTS, PANIC EXIT HARDWARE W/ SURFACE MOUNTED VERT. ROD DEVICE, CLOSER W/ HOLD-OPEN, FULL WEATHERSTRIPPING, ALUMINUM THRESHOLD. ACTIVE DOOR: NIGHT LATCH. INACTIVE DOOR: DUMPTY LEVER TRIM, ASTRAL.

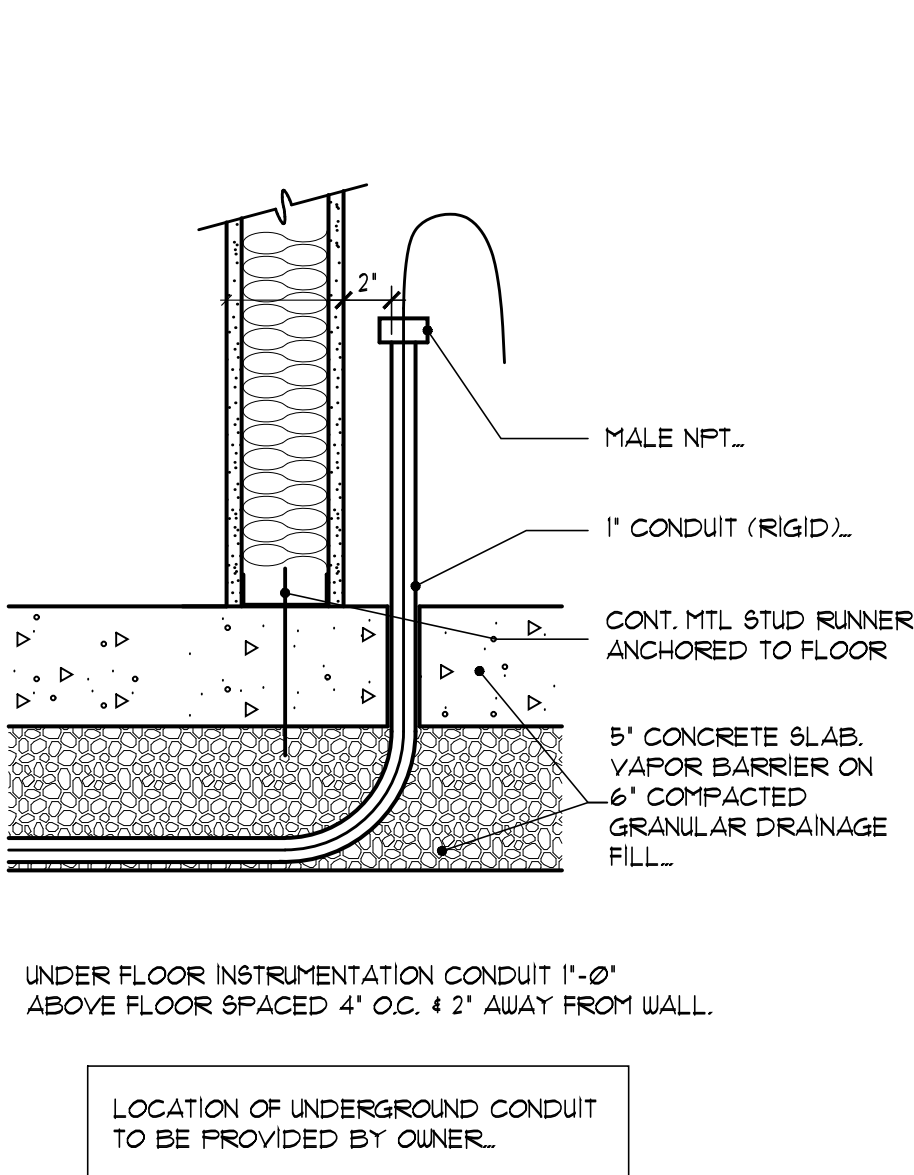


ELECTRICAL LEGEND

	LIGHT SWITCH		DUPLEX OUTLET 12" AFF		SURFACE MOUNTED 48" X 14" FLUORESCENT URAFAROUND FIXTURE W/ 318 LAMPS, 4 ENERGY SAVING BALLAST METALUX OR EQUAL...
	THREE-WAY LIGHT SWITCH		THERMOSTAT		"E-CONOLIGHT E-HL6PICSZ" LIGHT FIXTURE W/ WALL MOUNT ("E-ACM140B) AND PHOTOCELL ("E-ACPI") (OR EQUAL) ON 2" X POLE. HEIGHT AS DETERMINED BY OWNER. SET IN 8" DIAMETER CONCRETE FOOTING...
	EXPLOSION PROOF THREE-WAY LIGHT SWITCH		KILLARK LIGHTING "EPL4530X2G" 45W LED EXPLOSION-PROOF LIGHT W/ GUARD (OR EQUAL)		"KILLARK KFL06050" DOWNWARD CASTING FLOOD LIGHT W/ WALL MOUNT IN COLOR AS SELECTED BY OWNER. (OR EQUAL)
	EXPLOSION PROOF FOUR-WAY LIGHT SWITCH				
	EXPLOSION PROOF DUPLEX OUTLET (12" AFF) AND EXTENSION CORD PLUG (PIGTAIL)				

ELECTRICAL NOTES

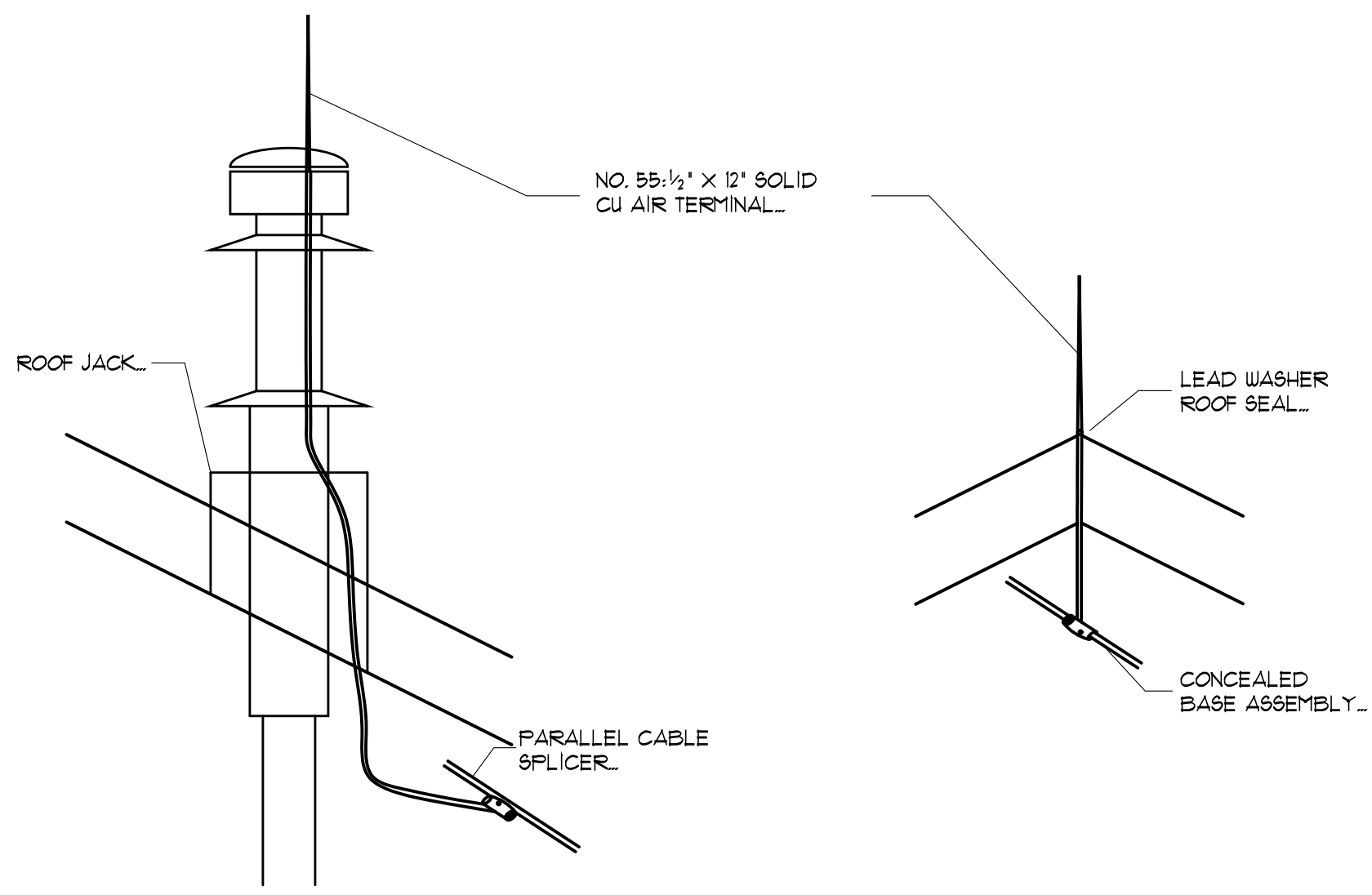
1. ALL CONDUIT FOR LIGHTING, POWER, ETC TO BE SURFACE MOUNTED IN FINISHED AREA 100%.
2. UNDER FLOOR CONDUITS SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR FOR OWNER'S USE - NOT TO BE USED FOR ELECTRICAL LINES. ALL CONDUITS TO BE 1" UNLESS NOTED OTHERWISE.
3. ALL OUTLETS, SWITCHES & LIGHT FIXTURES IN MECHANICAL ROOM SHALL BE EXPLOSION PROOF.
4. SPACE ALL CONDUIT 4" O.C. & 4" AWAY FROM EXT. WALL.



CONDUIT PLAN

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

1



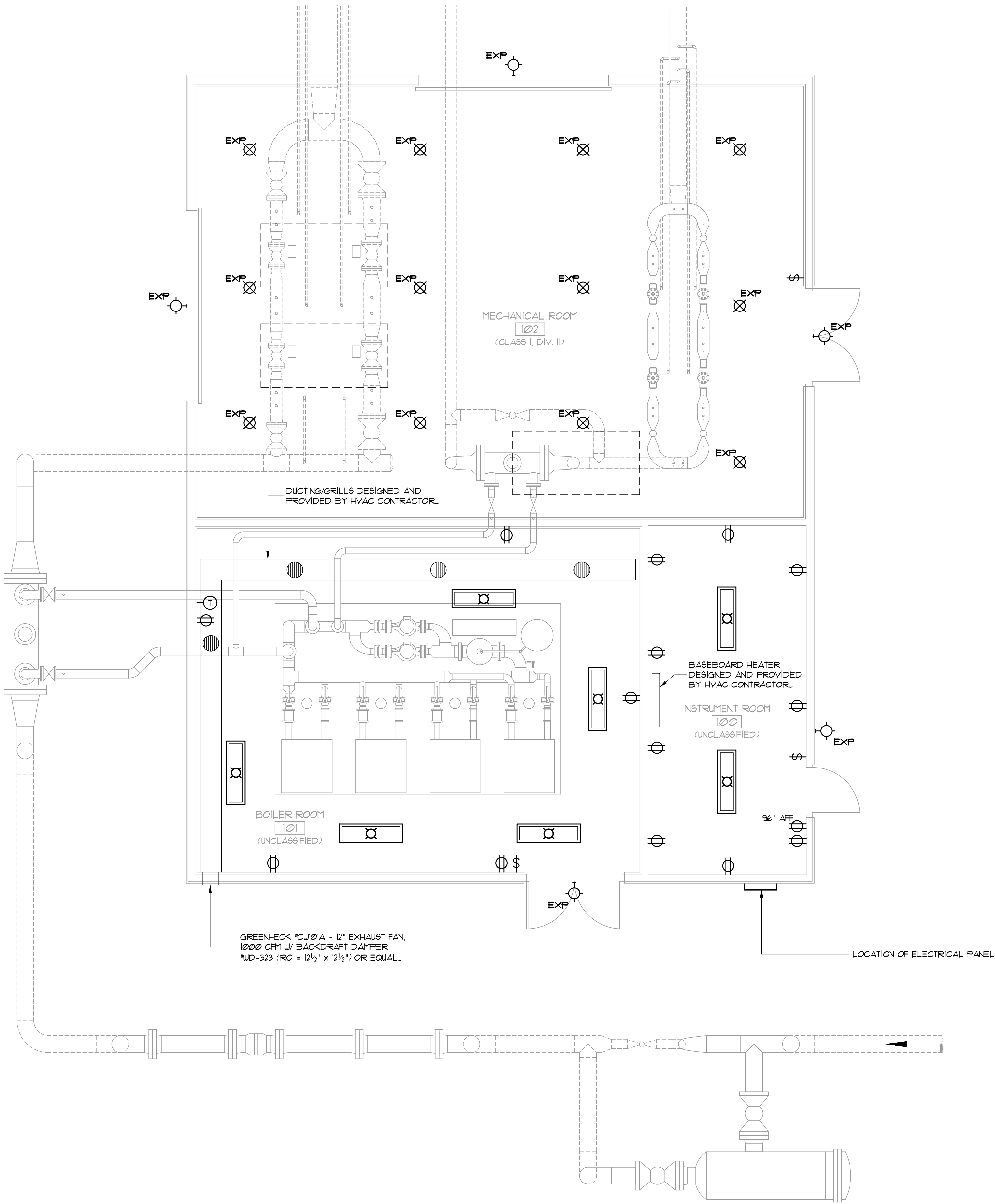
TYPICAL GROUNDING DETAILS

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

2

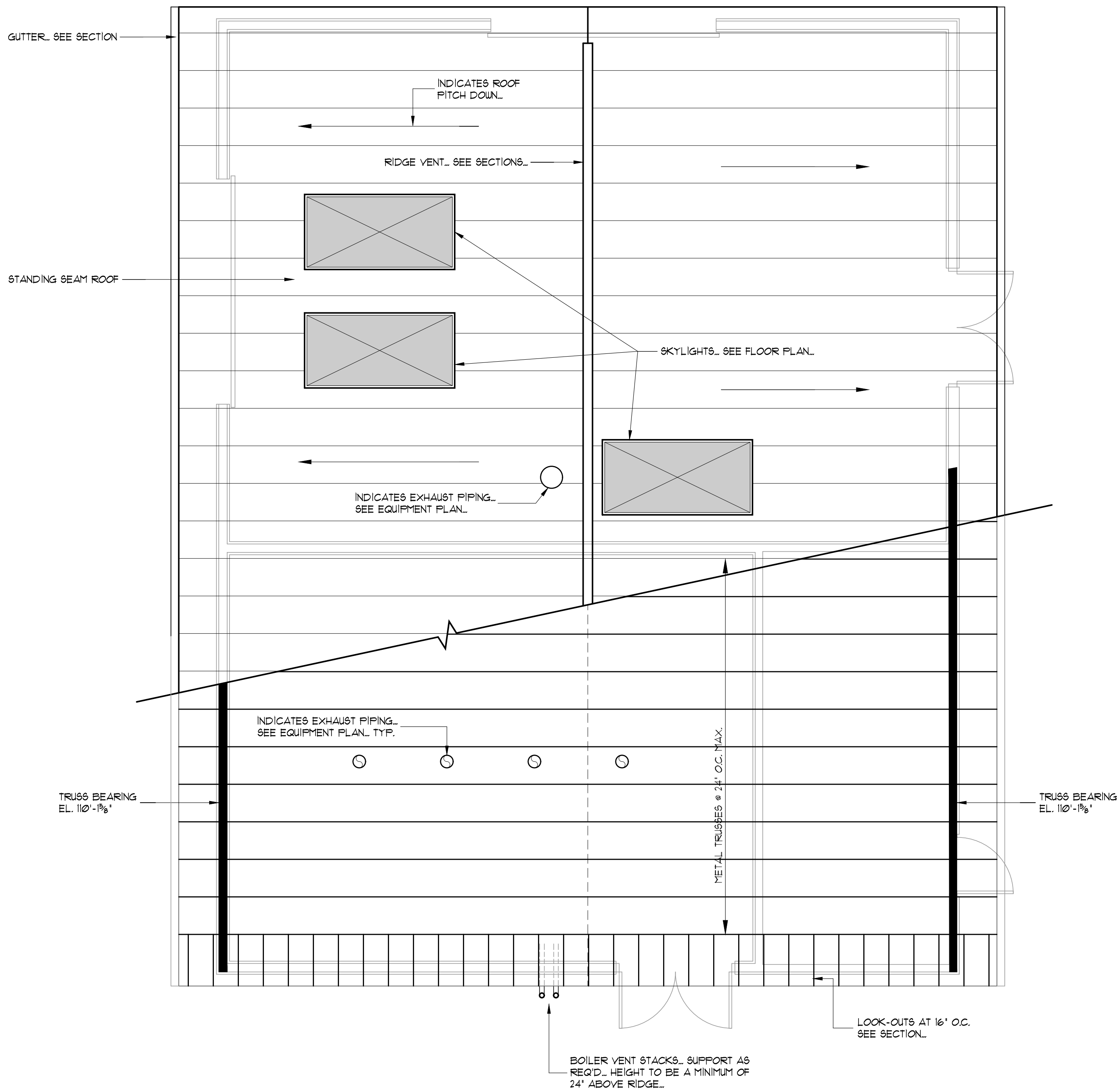
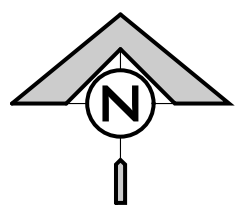
BUILDING GROUND SYSTEM

- 1) GENERAL/ELECTRICAL CONTRACTOR SHALL FURNISH DESIGN AND INSTALL A COMPLETE BUILDING GROUNDING SYSTEM BASED ON STATE AND LOCAL CODES AND THE FOLLOWING GUIDELINES.
- 2) PROVIDE 4# BARE COPPER WIRE LOOP 18" BELOW GRADE AND SPACED 48" AWAY FROM BUILDING.
- 3) INTERCONNECT TO ELECTRIC, TELEPHONE AND OTHER BUILDING GROUNDING SYSTEMS.
- 4) PROVIDE AIR TERMINAL PER EITHER OF THE DETAILS. SEE DETAIL "2" ON THIS SHEET. TAKE CARE TO INSURE THAT ALL POINTS ARE WITHIN 2'-0" OF OUTSIDE BUILDING EDGE, OUTSIDE CORNERS AND RIDGE ENDS, AND THAT MAXIMUM BRACING DOES NOT EXCEED 20'-0" AND THAT MINIMUM PROJECTION ABOVE OBJECT PROJECTED IS 10". (POINTS PROJECTING 24" MAY BE SPACED @ 25' MAX).
- 5) MAINTAIN HORIZONTAL OR DOWNWARD COURSE OF MAIN CONDUCTOR AND INSURE THAT ALL BENDS HAVE AT LEAST AN 8" RADIUS AND DO NOT EXCEED 90 DEGREES.
- 6) ATTACH ALL EXPOSED ROOF, DOWN LEAD AND BONDING CABLES AT 3'-0" ON CENTER MAXIMUM. VERIFY COMPATIBILITY OF ADHESIVE ON MEMBRANE ROOF APPLICATIONS PRIOR TO INSTALLATION.
- 7) "AS-BUILT" DRAWING SHALL BE SUBMITTED IN ACCORDANCE WITH CERTIFICATION PROCEDURES.
- 8) ALL MATERIALS TO BE UNDERWRITER'S LABORATORIES APPROVED WITH LABELS ON CONNECTORS @ 10'-0" INTERVALS AND LABELS ON ALL AIR TERMINALS.
- 9) PROVIDE A TAIL FOR CONNECTION TO EXISTING PLANT GROUNDING GRID. OWNER WILL EXTEND EXISTING GRID TO TAIL PROVIDED BY CONTRACTOR.
- 10) GROUND WIRES INSIDE OF THE BUILDING SHALL BE RUN IN 1" CONDUIT DOWN THE FACE OF THE WALL.



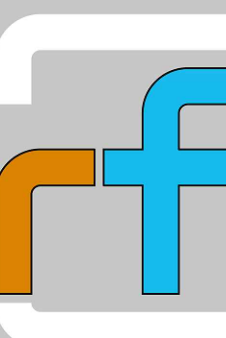
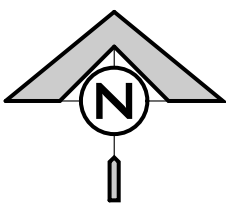
POWER / HVAC / LIGHTING PLAN

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

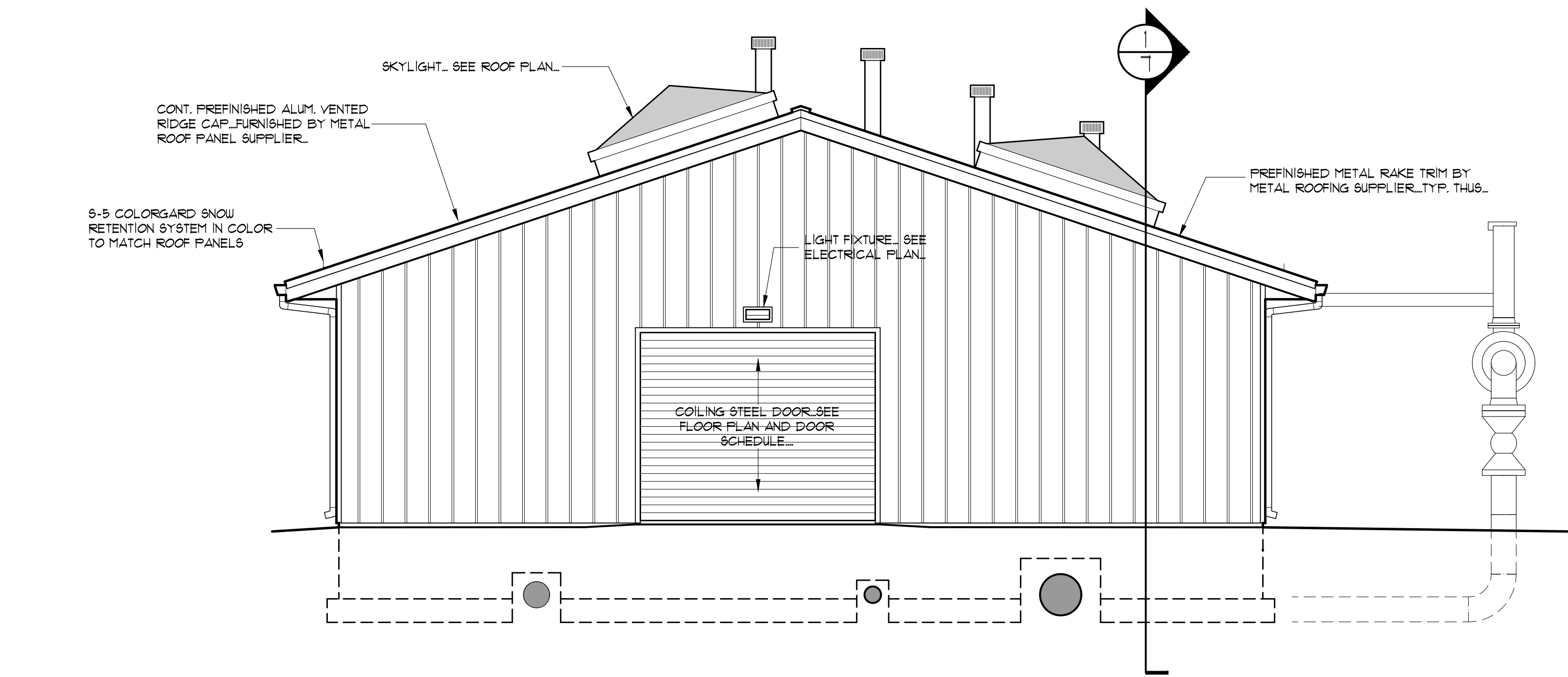


ROOF FRAMING / ROOF PLAN

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

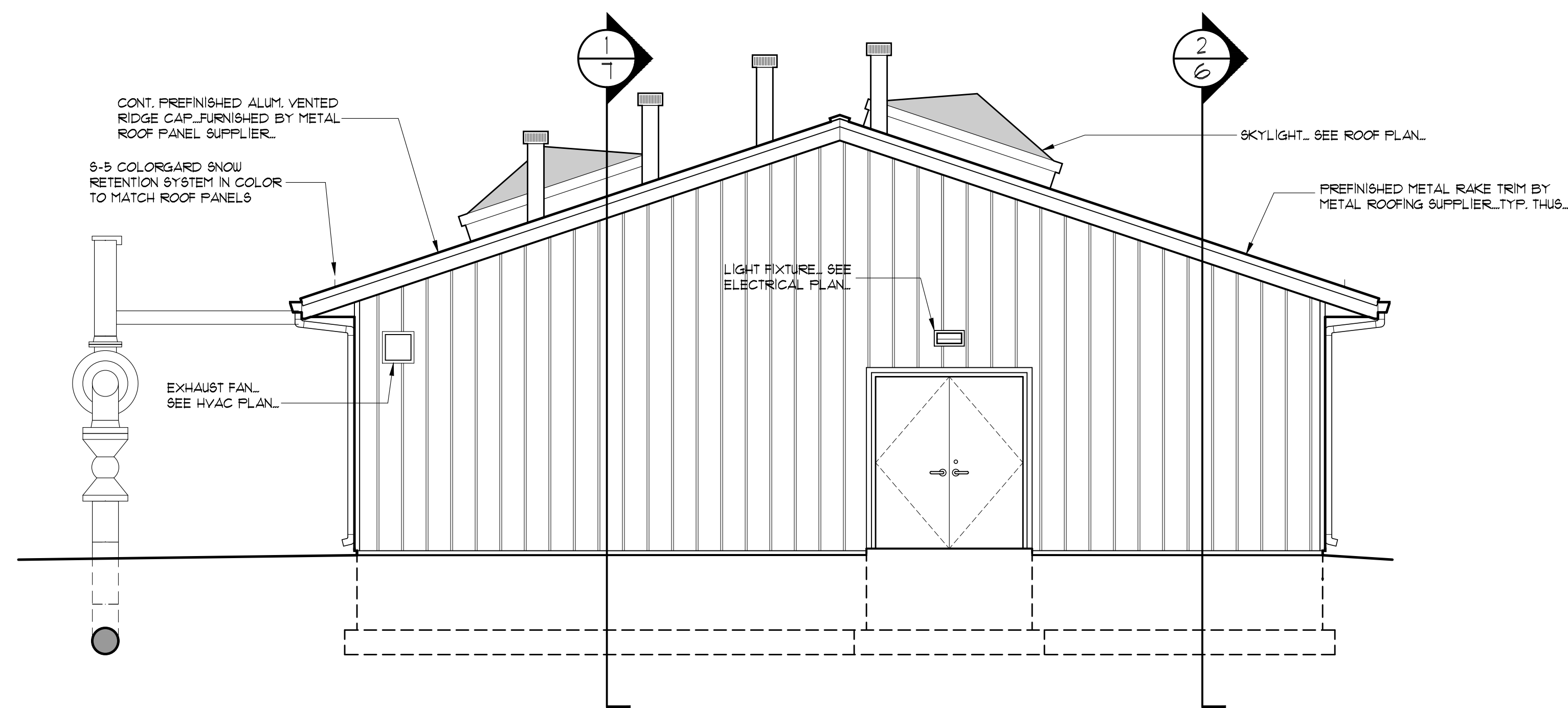






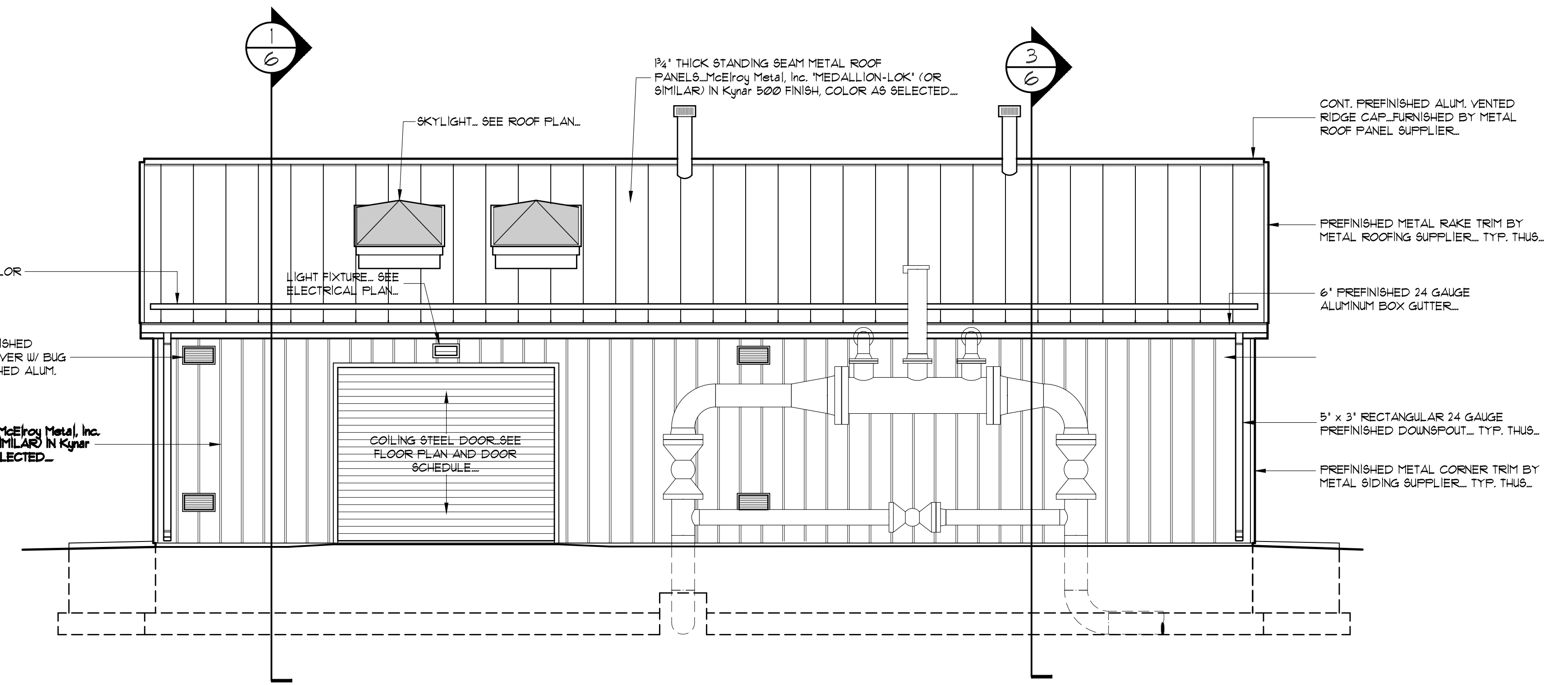
**NORTH ELEVATION**

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



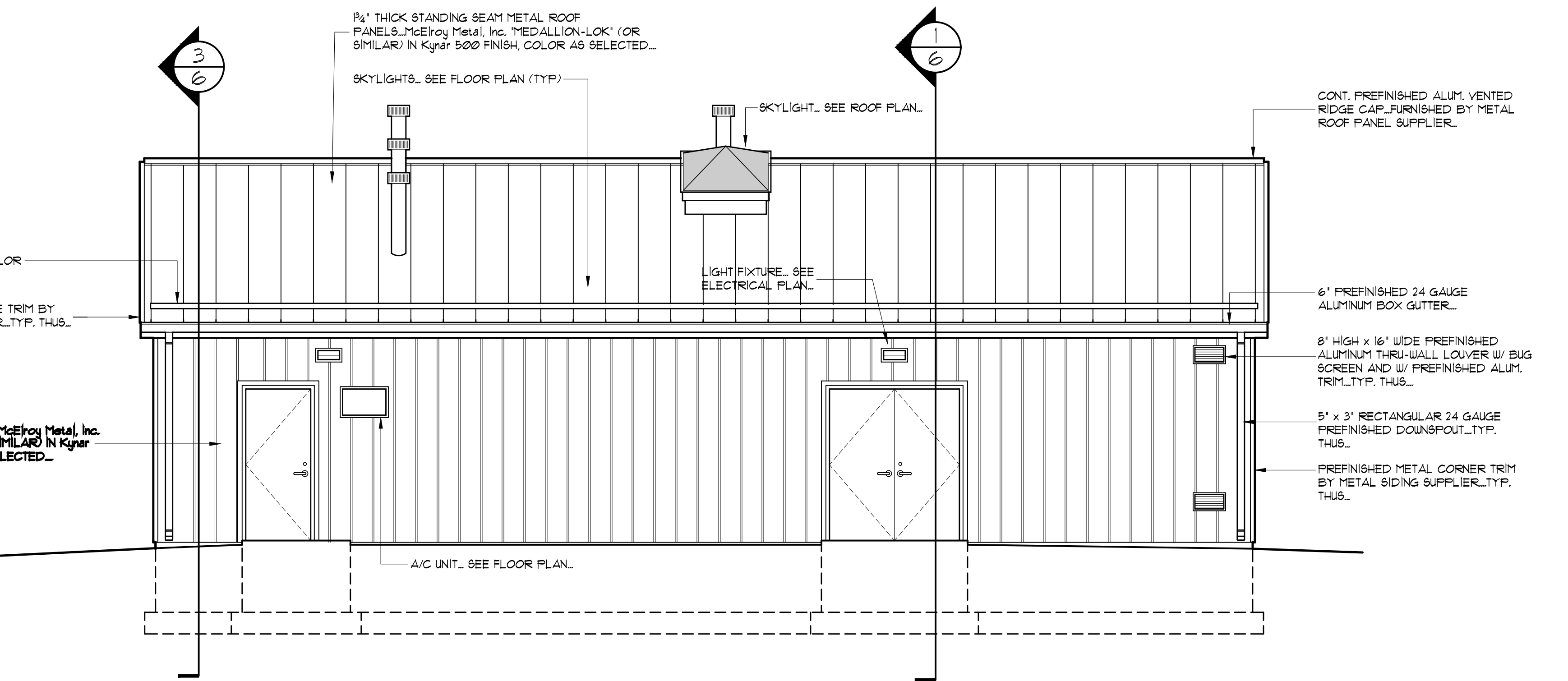
**SOUTH ELEVATION**

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



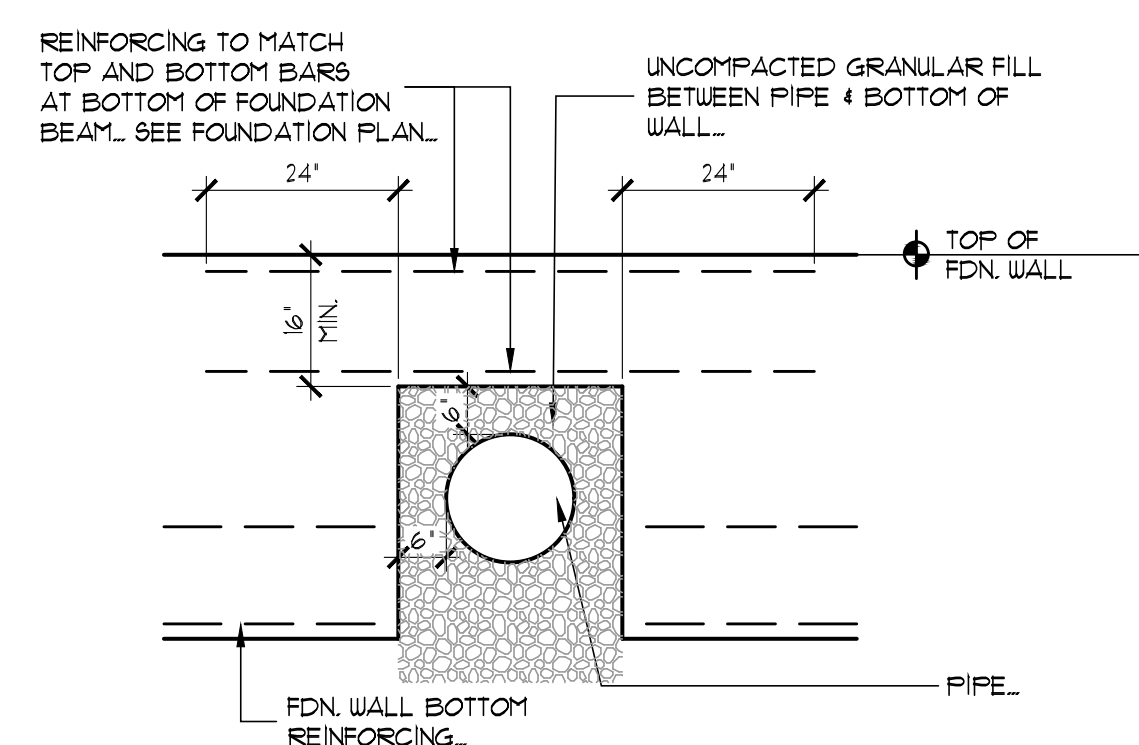
**WEST ELEVATION**

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



**EAST ELEVATION**

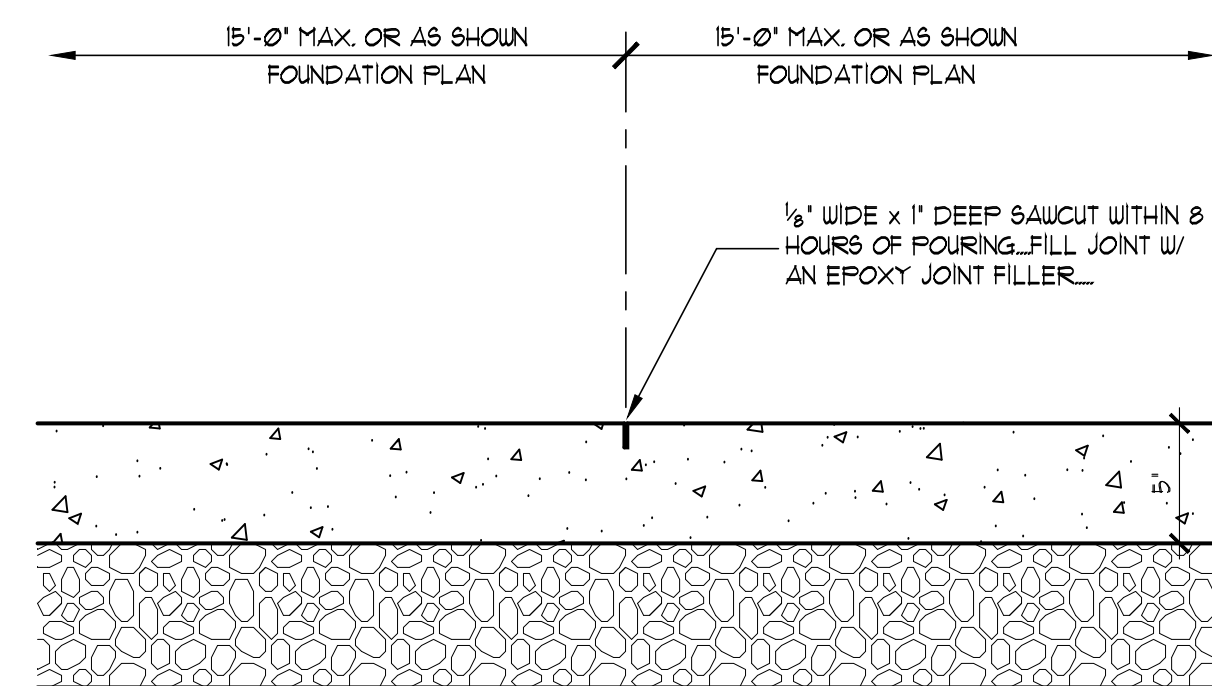
SCALE: 1/4" = 1'-0"



**FOUNDATION WALL BRIDGE**

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

1

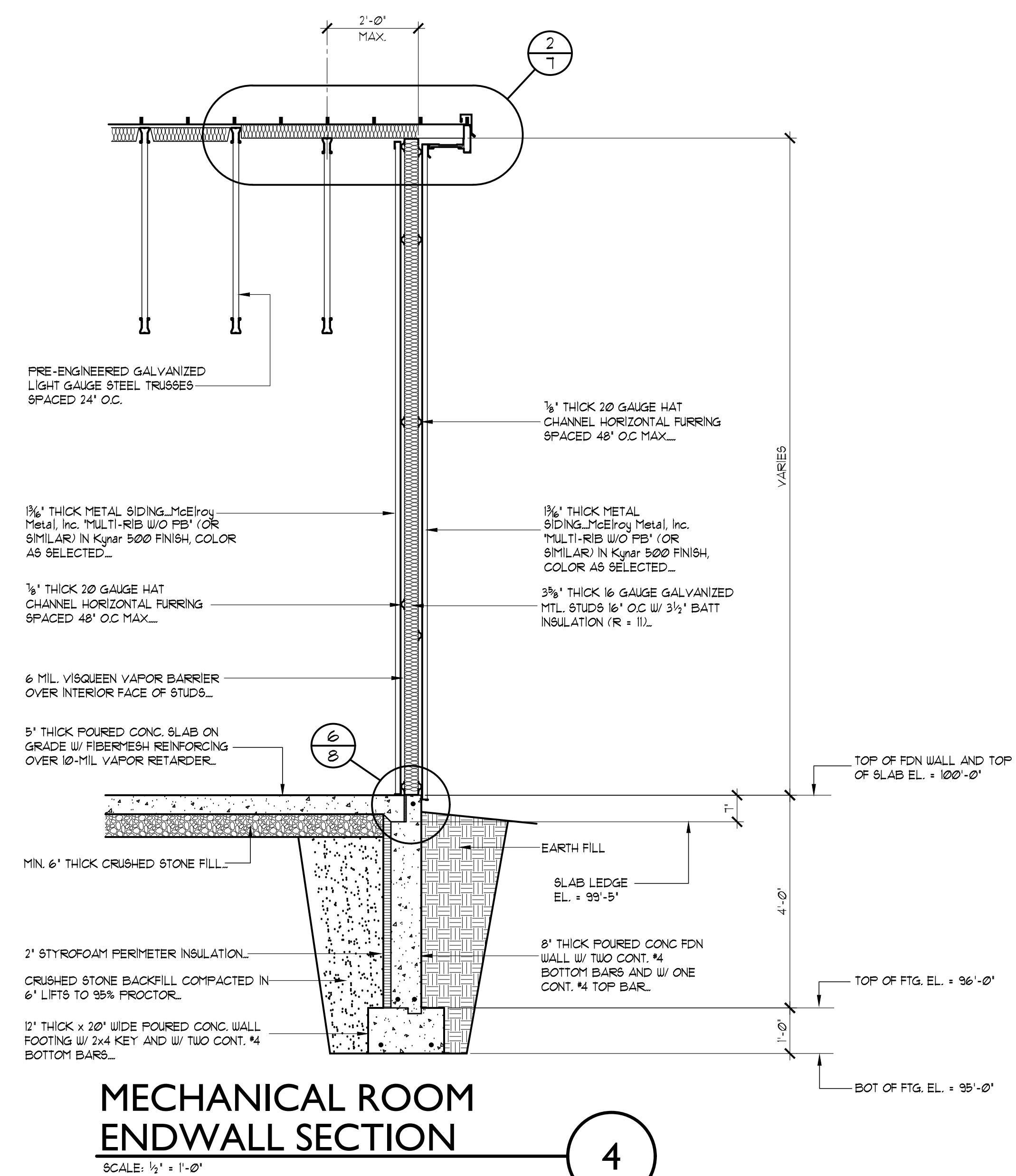
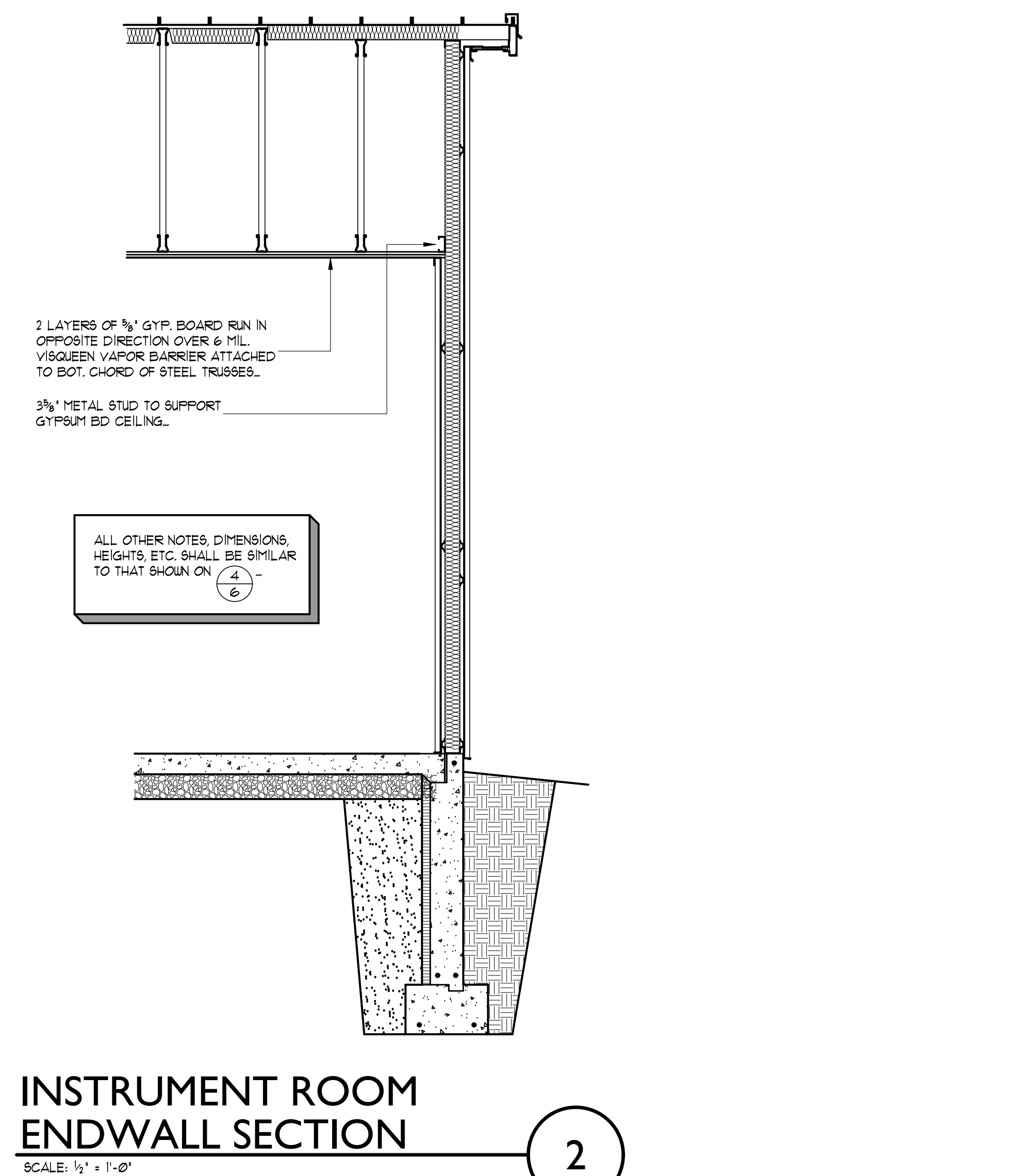
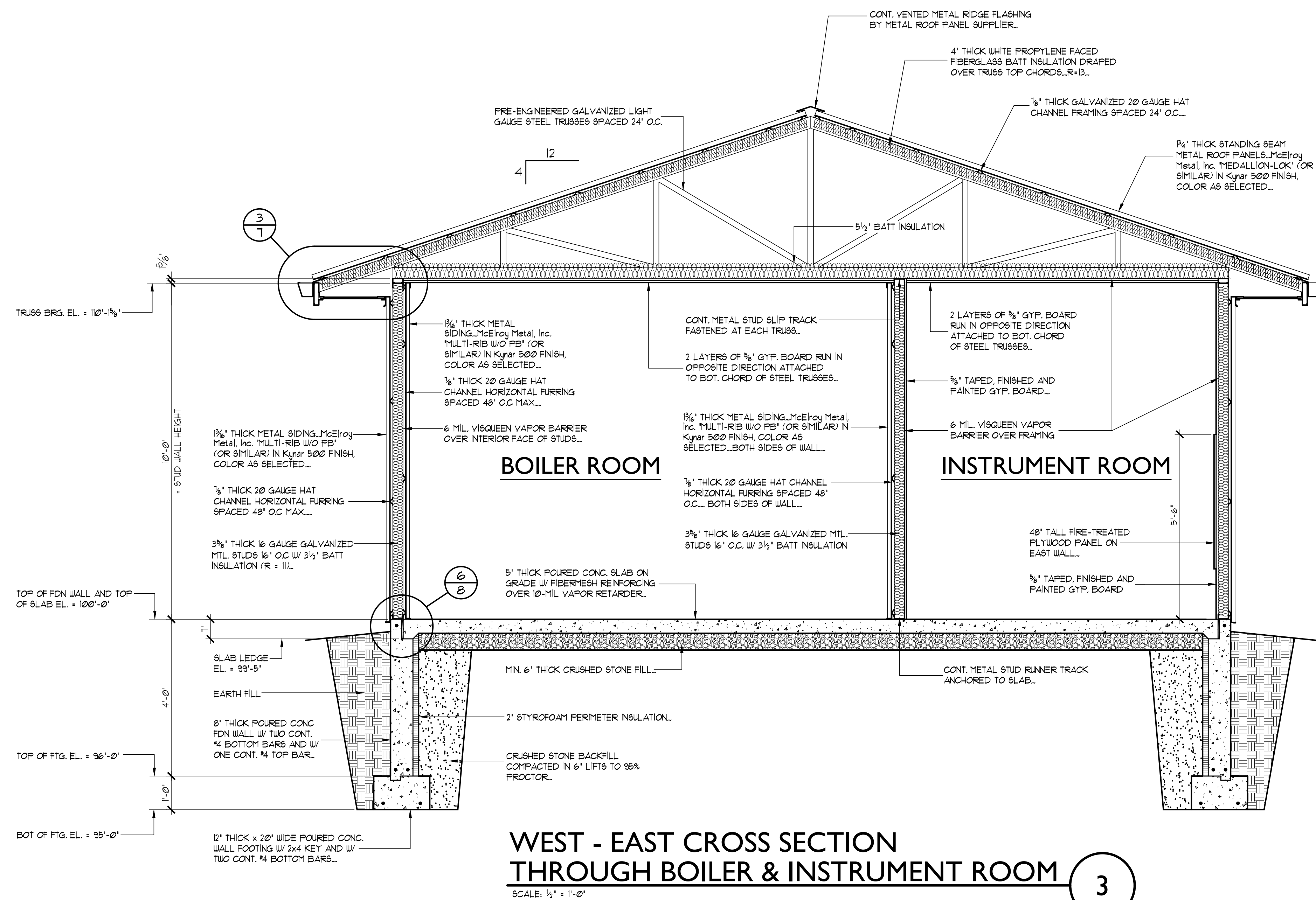
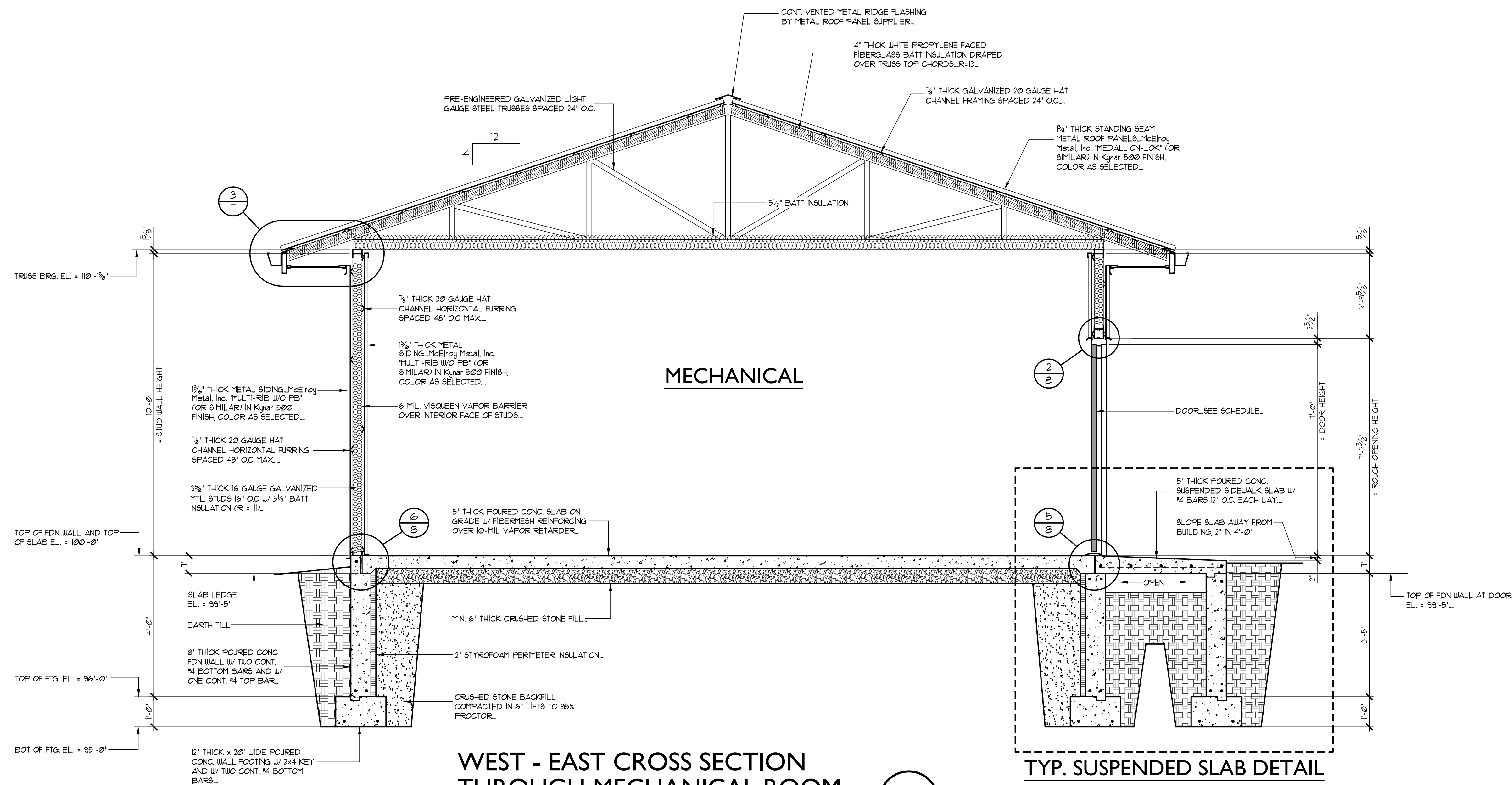


**SLAB CONTROL JOINT DTL.**

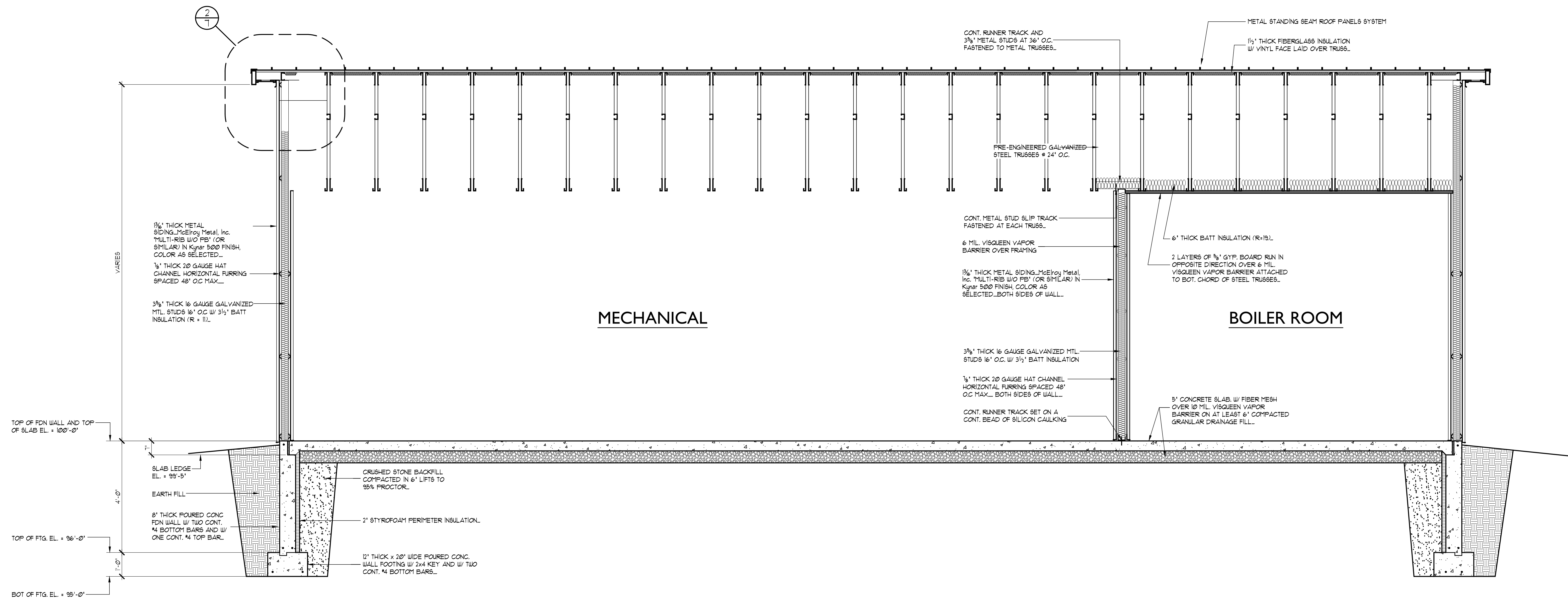
SCALE: 1/2" = 1'-0"

2



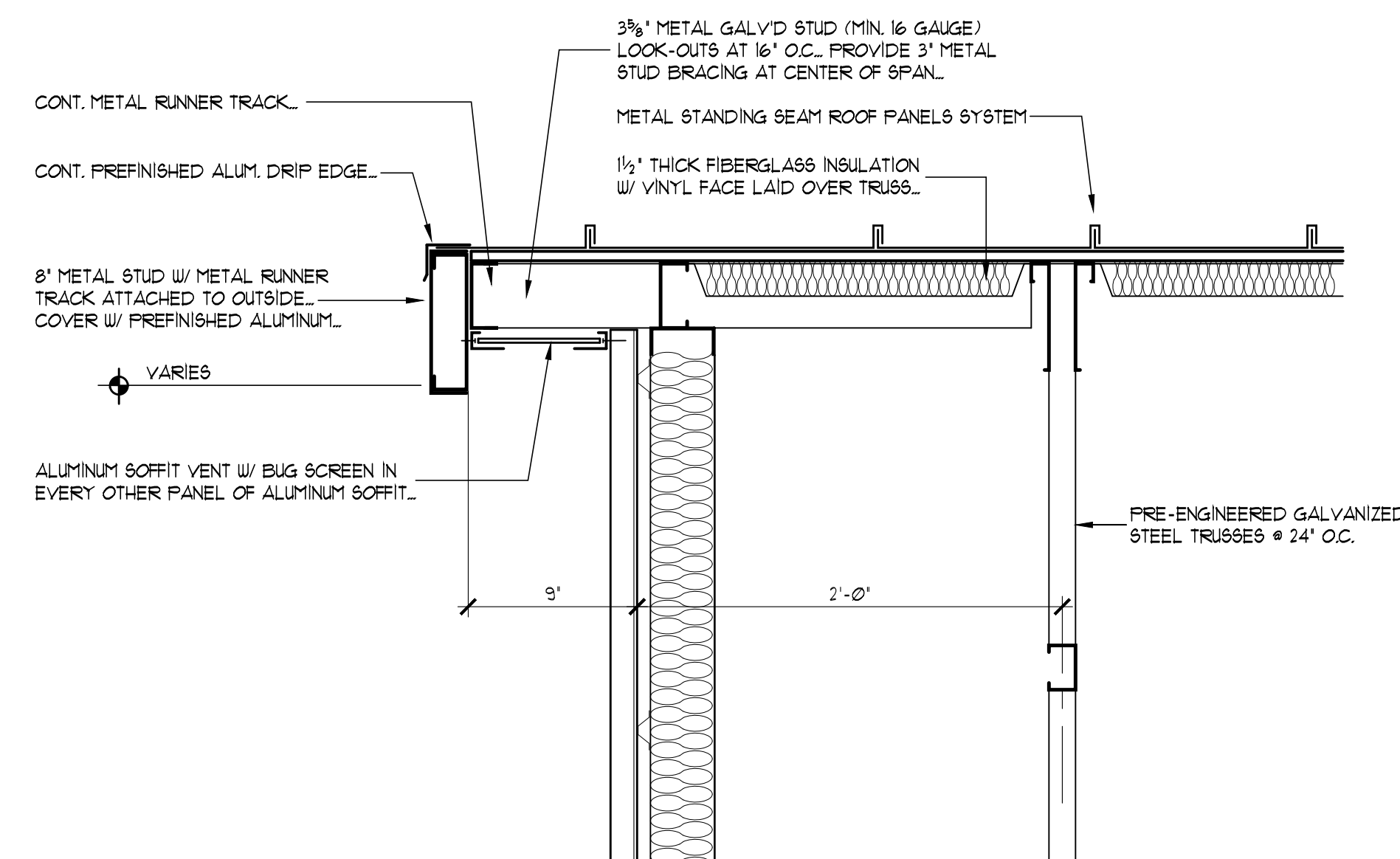






**NORTH - SOUTH CROSS SECTION THROUGH MECHANICAL & BOILER ROOM**

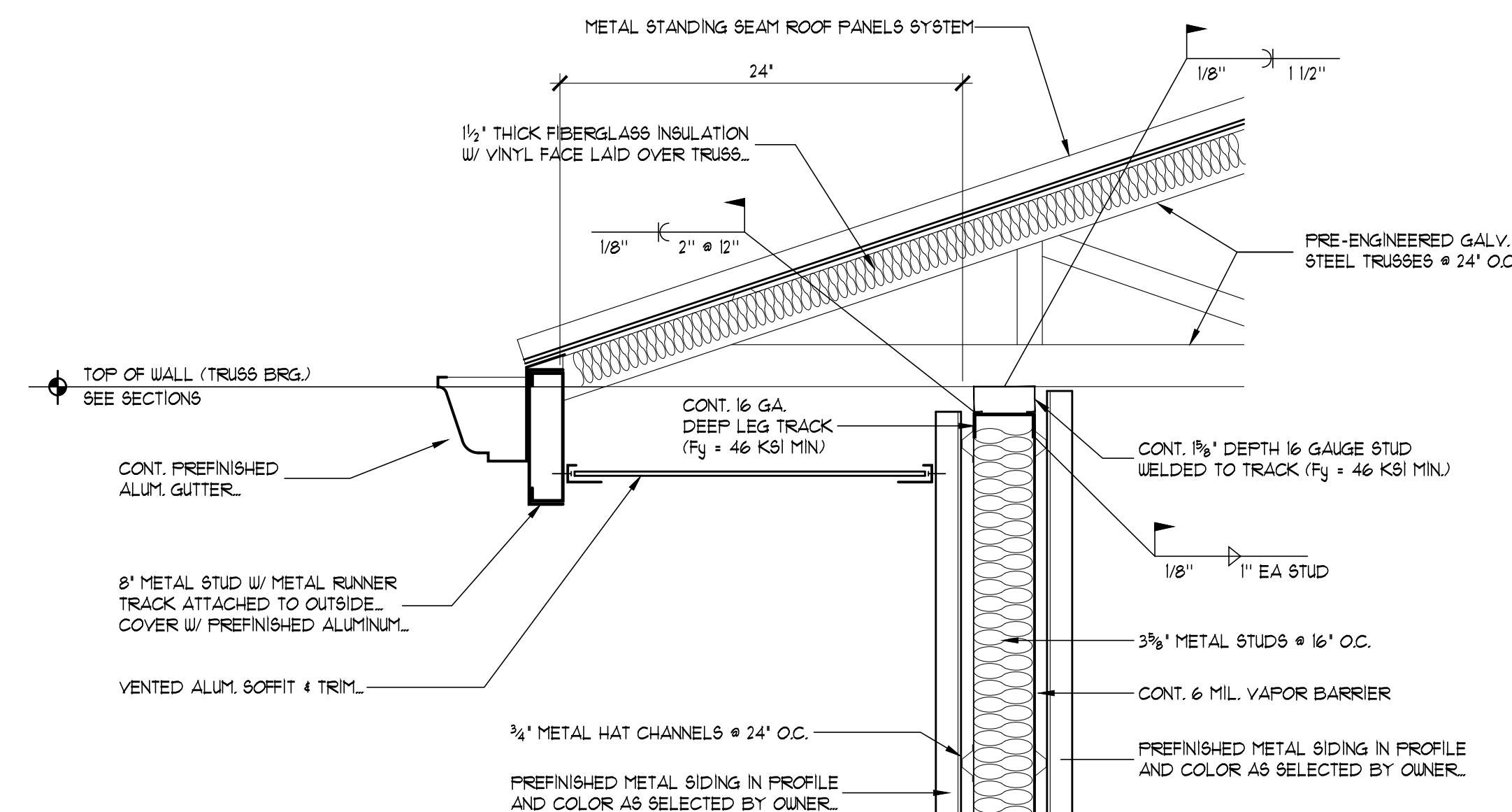
SCALE: 1/2" = 1'-0"



**GABLE DETAIL**

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

2



**OVERHANG DETAIL**

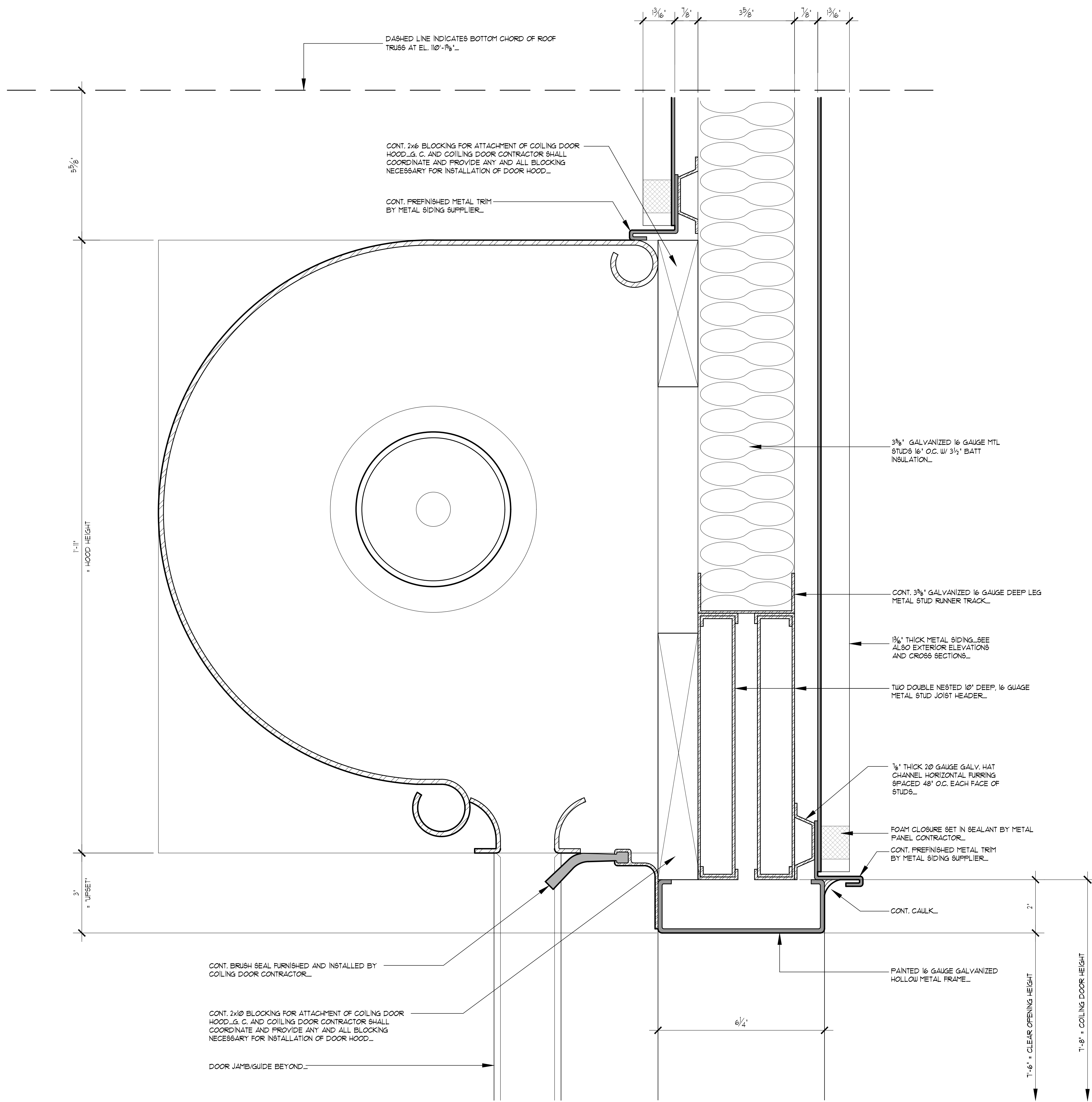
SCALE: 1/2" = 1'-0"

3

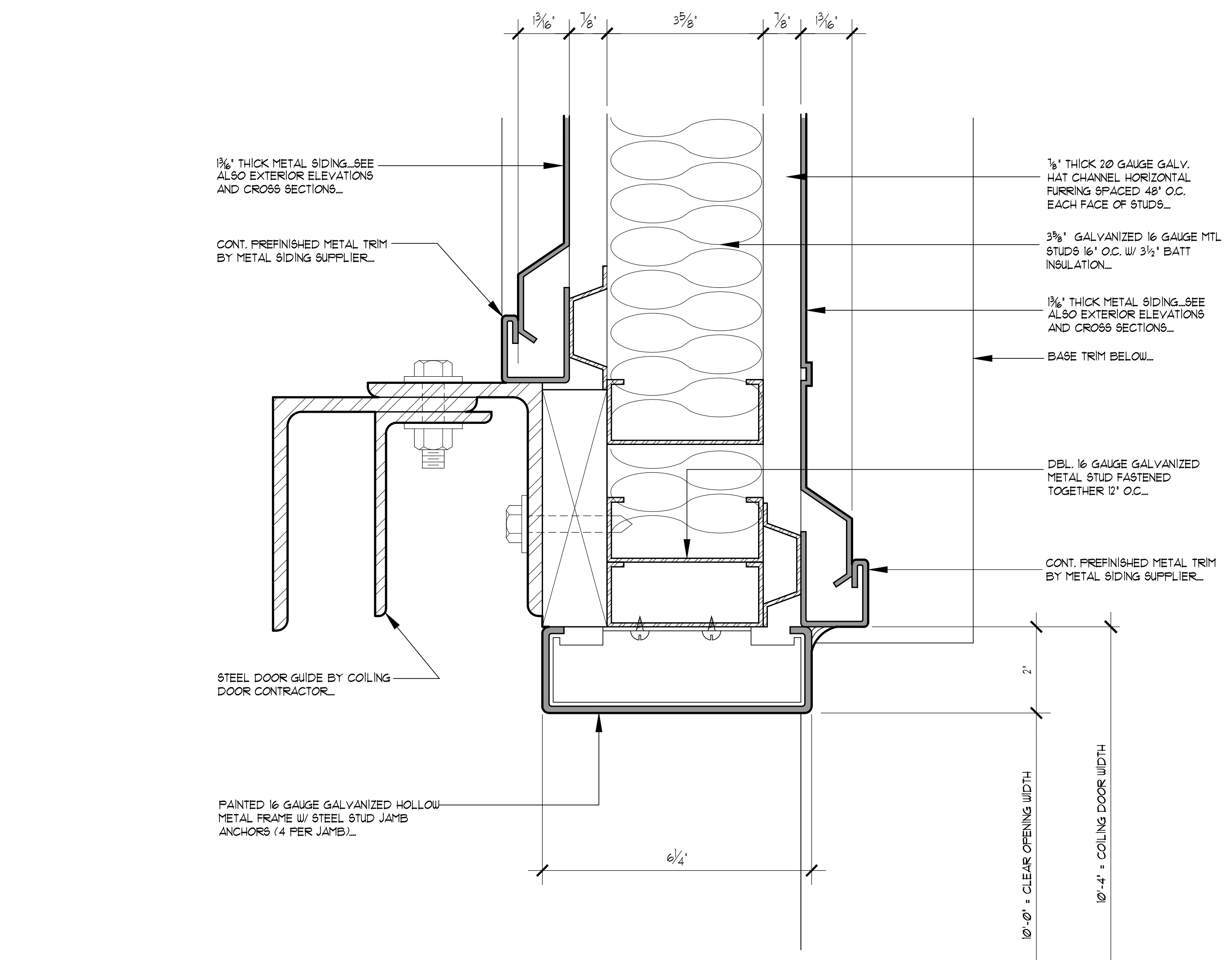




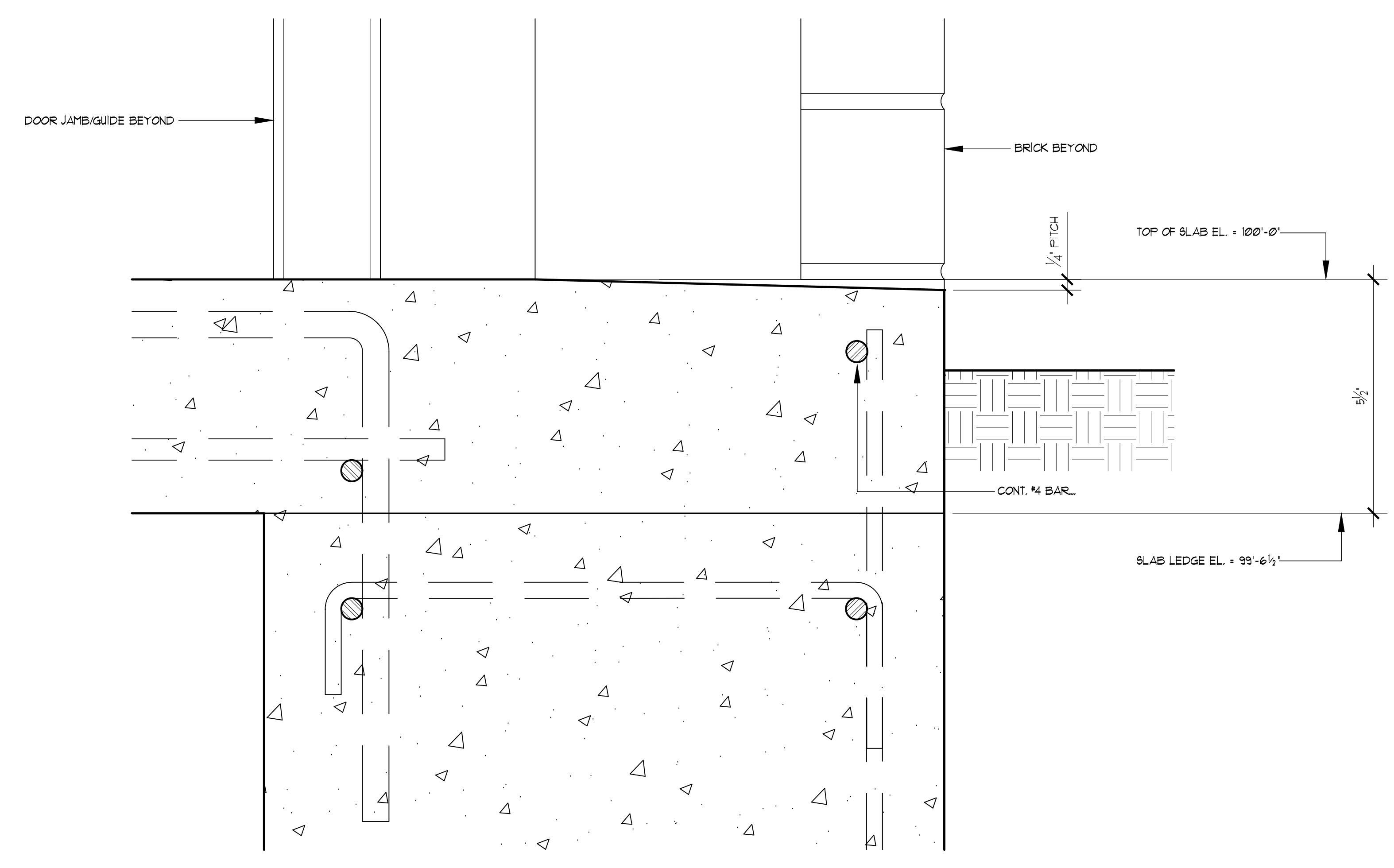




**COILING DOOR HEAD DETAIL**  
SCALE : 6" = 1'-0"



**COILING DOOR JAMB DETAIL**  
SCALE : 6" = 1'-0"



**COILING DOOR SILL DETAIL**  
SCALE : 6" = 1'-0"