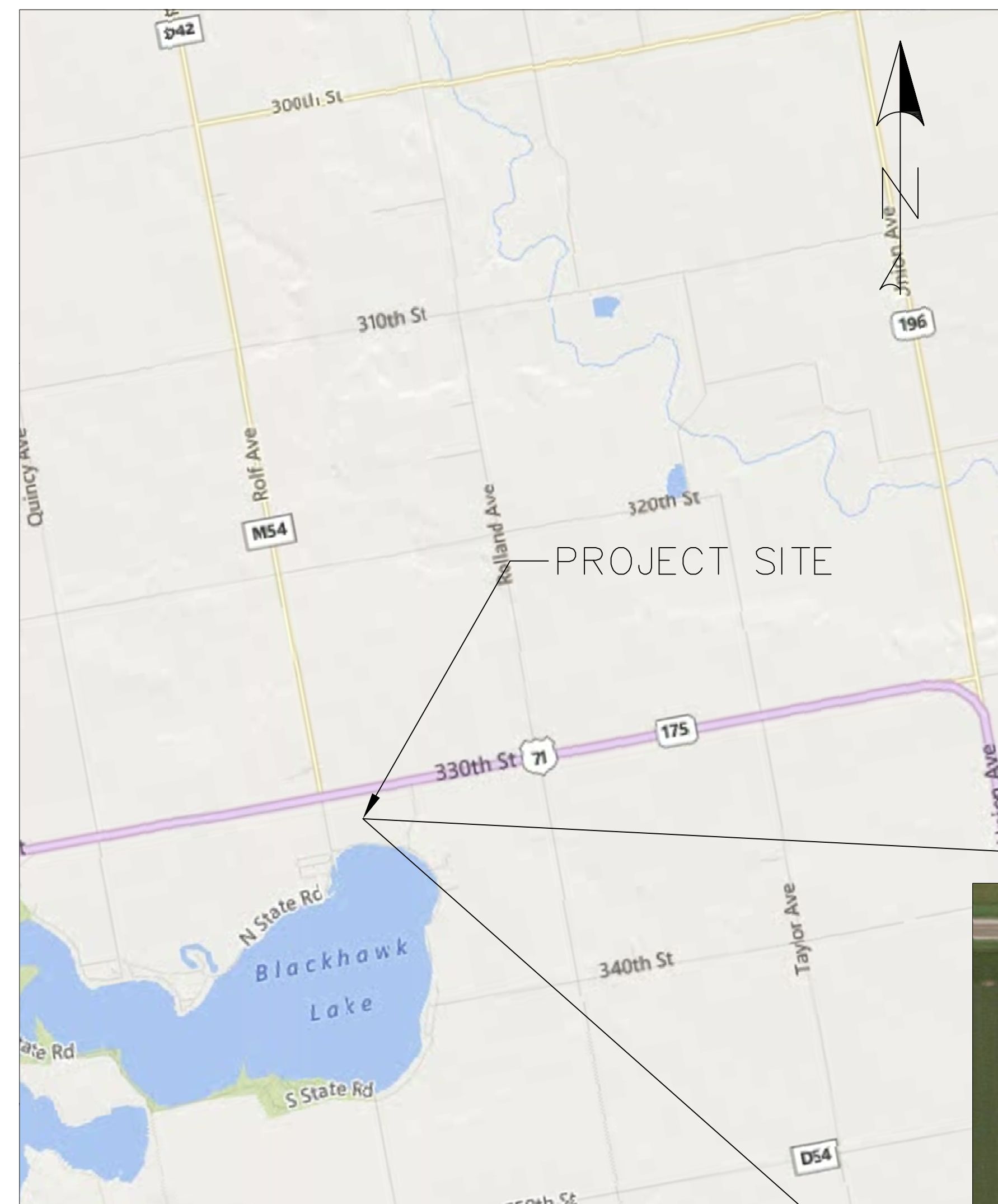


# LAKE VIEW COMMUNITY CENTER

LAKE VIEW, IOWA CONSTRUCTION PLANS OF  
PROPOSED  
COMMUNITY CENTER  
LAKE VIEW, IOWA  
SAC COUNTY 51450

GENERAL NOTES:

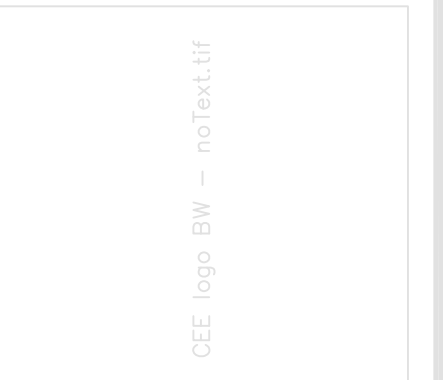
- All Construction shall be in accordance with SUDAS Specification and Lake View and Sac County Supplemental Specification.
- Contractor to call Iowa One to location existing utilities 48 hours prior to beginning of construction phase
- Geotechnical Information was found from NRCS Geospatial and Soils Data for Sac County
- Contractor to call Local Water Department prior to connecting to any water main
- All work shall be in accorded with OSHA Standards and Regulations
- All constructions staking and markings shall be done by a certified Engineer or Land Surveyor



SHEET NO.	SHEET INDEX
1	TITLE SHEET
2	SITE PLAN
3	INTERIOR LAYOUT PLAN
4	ARCHITECTURAL N-S ELEVATIONS
5	ARCHITECTURAL E-W ELEVATIONS
6	FLOOR PLAN
7	PRE-DEVELOPMENT GRADES
8	GRADING PLAN
9	TRUSS DETAILS
10	WALL DETAILS
11	FOUNDATION PLAN
12	FOUNDATION DETAILS
13	BIOSWALE PLAN – PROFILE I
14	BIOSWALE PLAN – PROFILE II
15	BIOSWALE DETAILS
16	INFILTRATION BASIN DETAILS

PROJECT:	CEE: 4850
DATE :	05/08/2020
DRAWN BY:	IWFD Engineering
REVISION:	

**THE UNIVERSITY OF IOWA**  
**CIVIL AND ENVIRONMENTAL ENGINEERING**  
4105 SEAMANS CENTER FOR THE  
ENGINEERING ARTS AND SCIENCES  
103 S CAPITOL ST  
IOWA CITY, IOWA 52242  
PHONE: 319.335.5647  
FAX: 319.335.5660  
EMAIL: civil-hawks@iowa.edu



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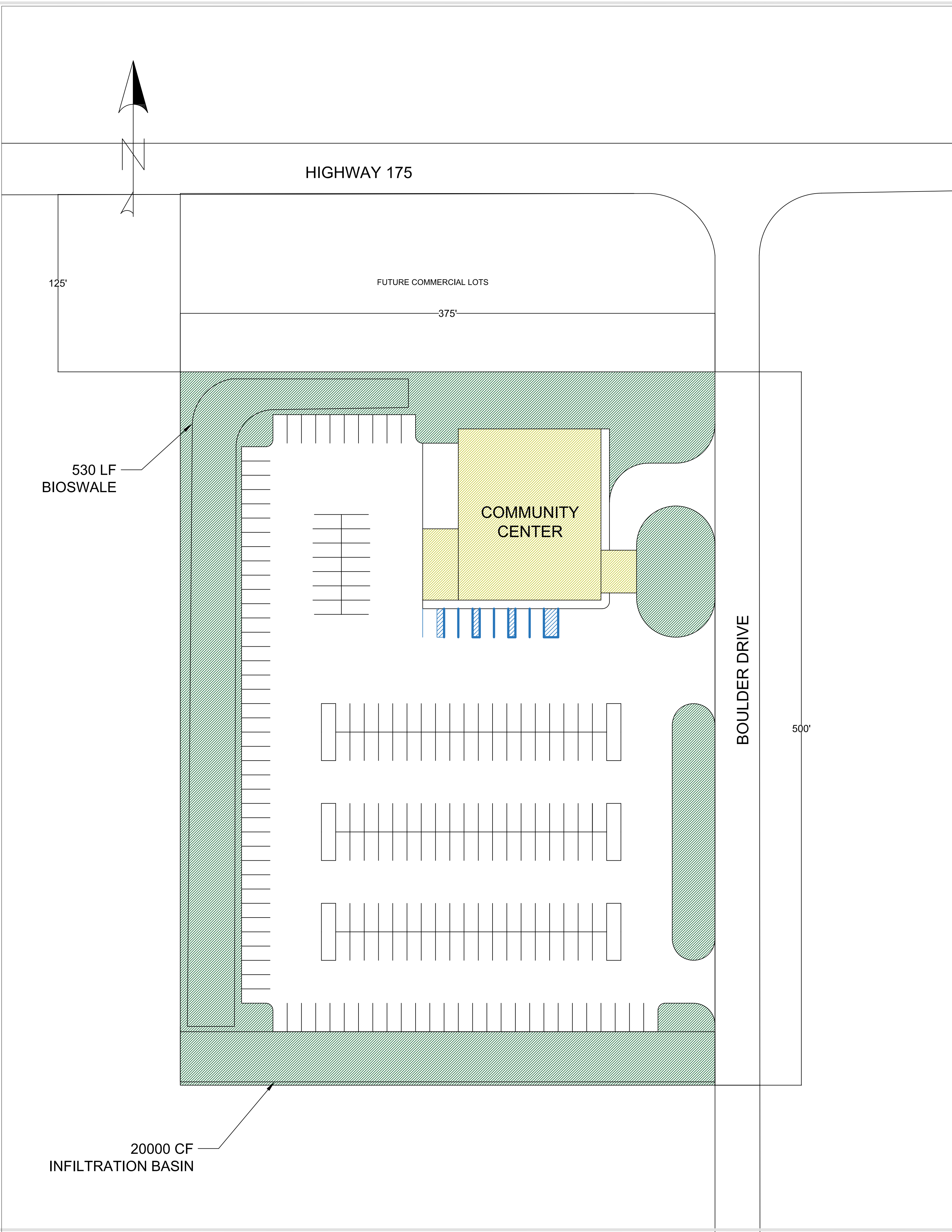
**Lake View Community Center**

121 Boulder Drive, Lake View, IA 51450

SHEET NAME  
Community Center  
Title Sheet

SHEET NO.  
**01**





**SITE NOTES:**

- Hashed areas include the structure, green spaces, and green infrastructure
- North Lots labeled as *Future Commercial Lots* in accordance with future City plans
- South section of site connects to North section of gravel lot that is north of the Hotel

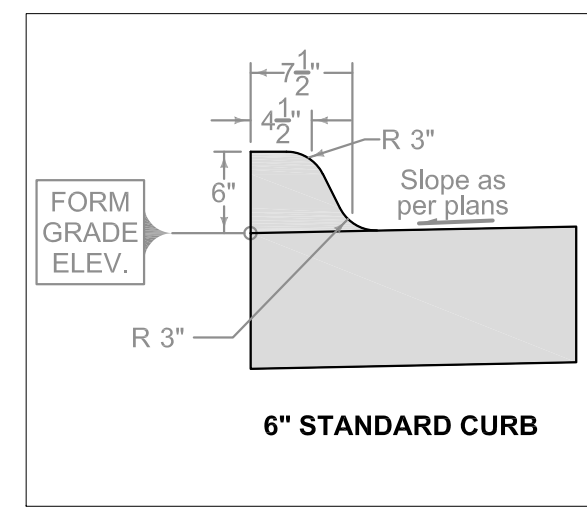
**BIOSWALE & INFILTRATION BASIN NOTES:**

- Further details can viewed in the Bioswale & Infiltration Basin Detail Sheets

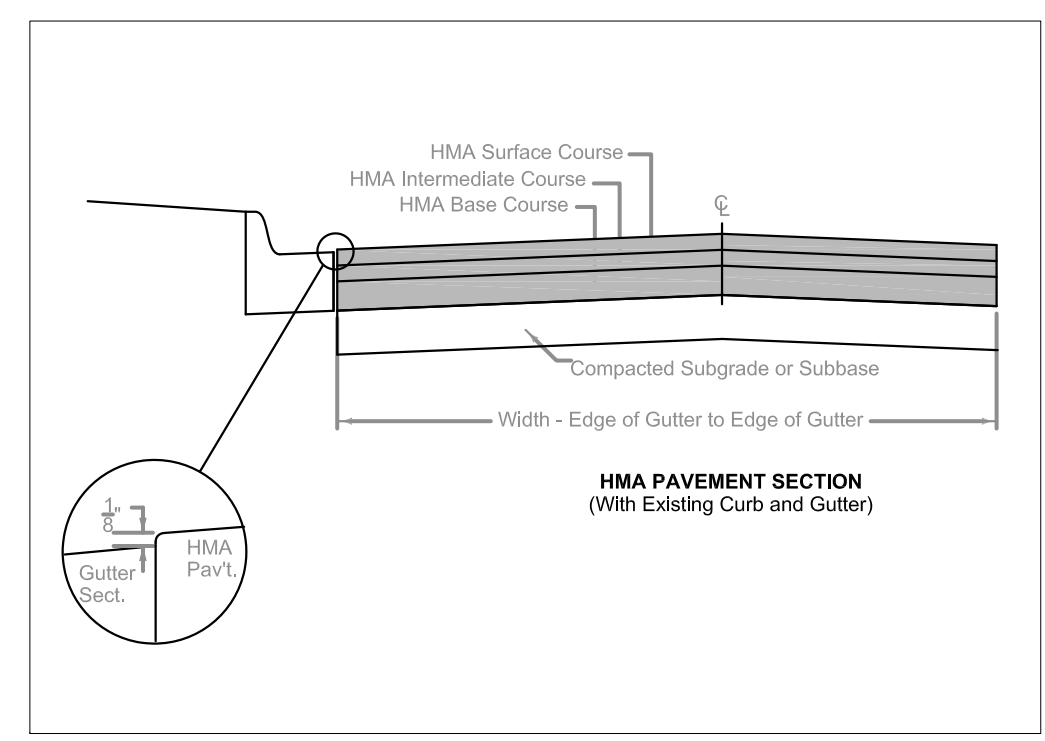
**PARKING NOTES:**

- Based on Structure Capacity
- Contains 210 Parking Spaces
- Space Dimensions: 20' x 10'
- Handicap Parking ADA Compliant
- All Curbs will be 6" standard PCC per SUDAS 7010 and can be seen under Curb Detail
- HMA pavement details can be viewed in cross-section view under Pavement details
- NOTE: views shown are for HMA pavement, which is recommended but can be changed in accordance with budget

**CURB DETAILS**



**HMA PAVEMENT DETAILS**



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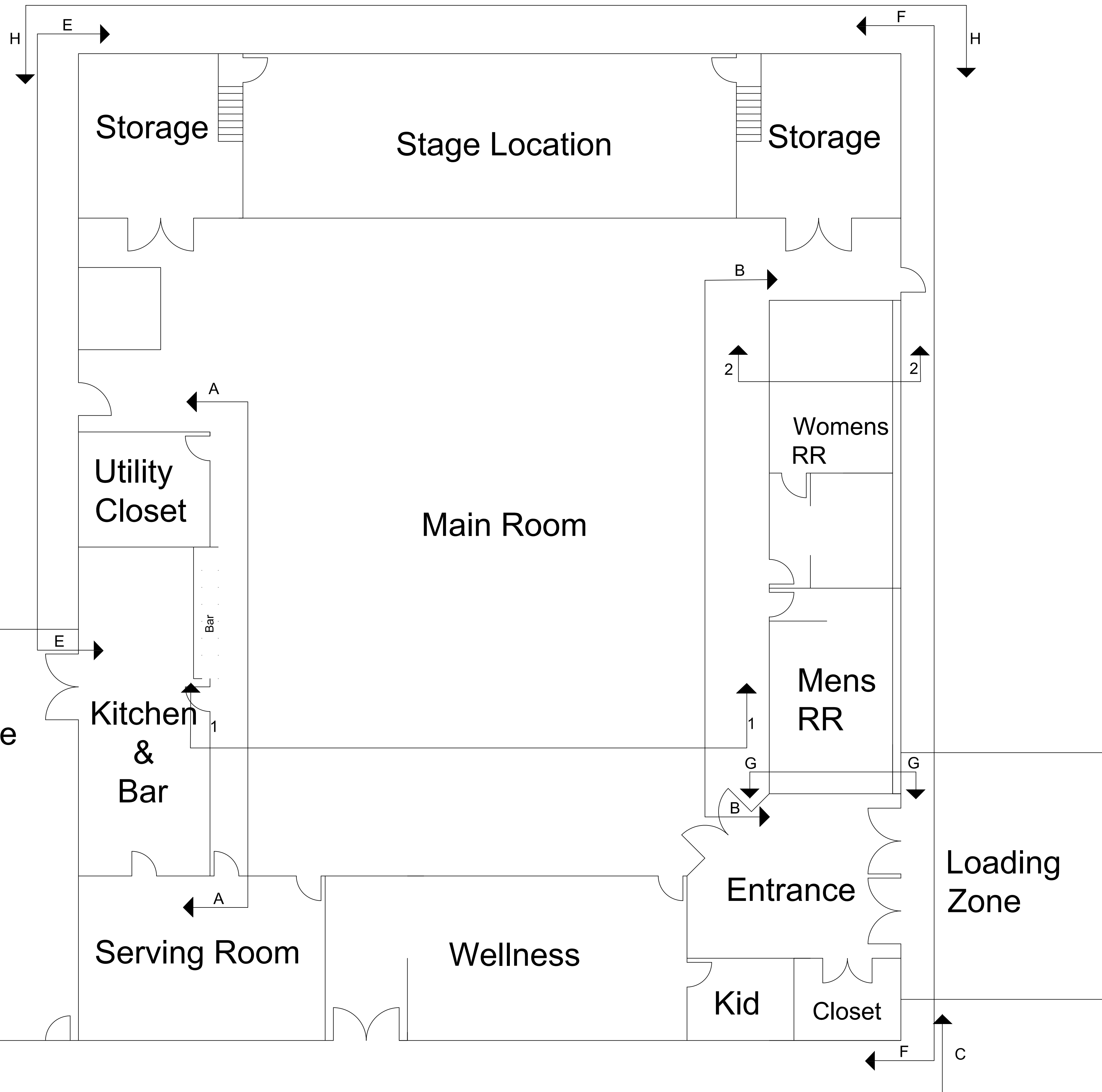


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**Lake View Community Center**  
 121 Boulder Drive, Lake View, IA 51450

SHEET NAME  
 Community Center Site plan

SHEET NO.  
**02**



**NOTES:**

- All lettered (A through G) section views are to display wall and can be viewed in the Wall Details Plan Sheet
- Further details of the layout can be viewed in the Floor Plan Sheet
- Section C-C make up the South Elevation view
- Section D-D & E-E make up the West Elevation view
- Section F-F make up the East Elevation View
- Section H-H makes up the North Elevation View
- All Architectural Elevation views can be viewed in the Elevation Sheets
- Section 1-1 & 2-2 display the truss plans, which can be viewed in further detail under Truss Details

PROJECT:	CEE: 4850
DATE :	05/08/2020
DRAWN BY:	IWFD Engineering
REVISION:	

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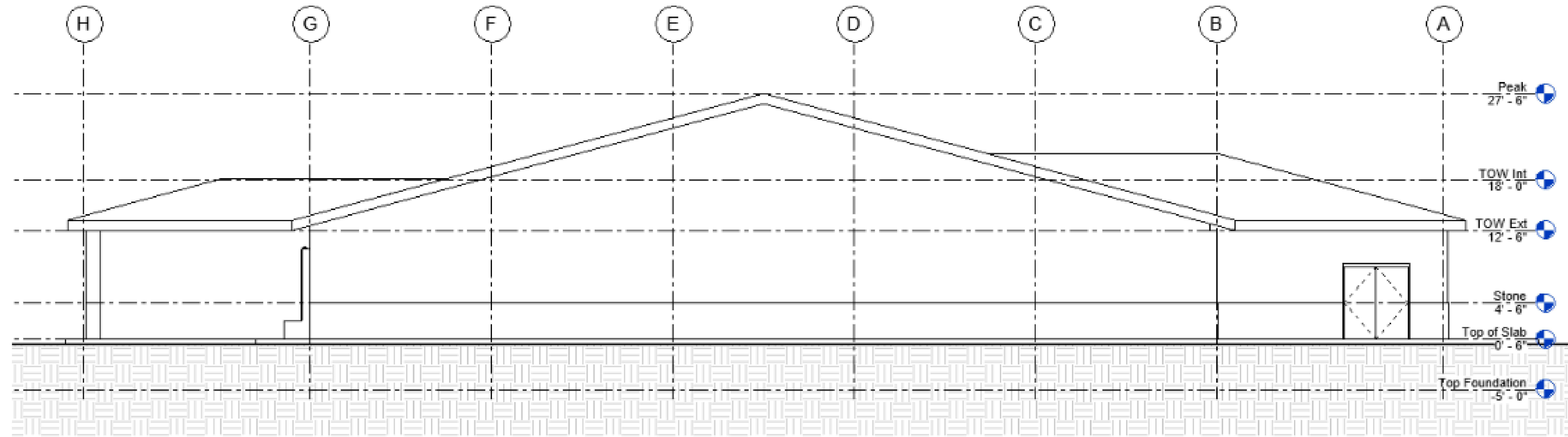
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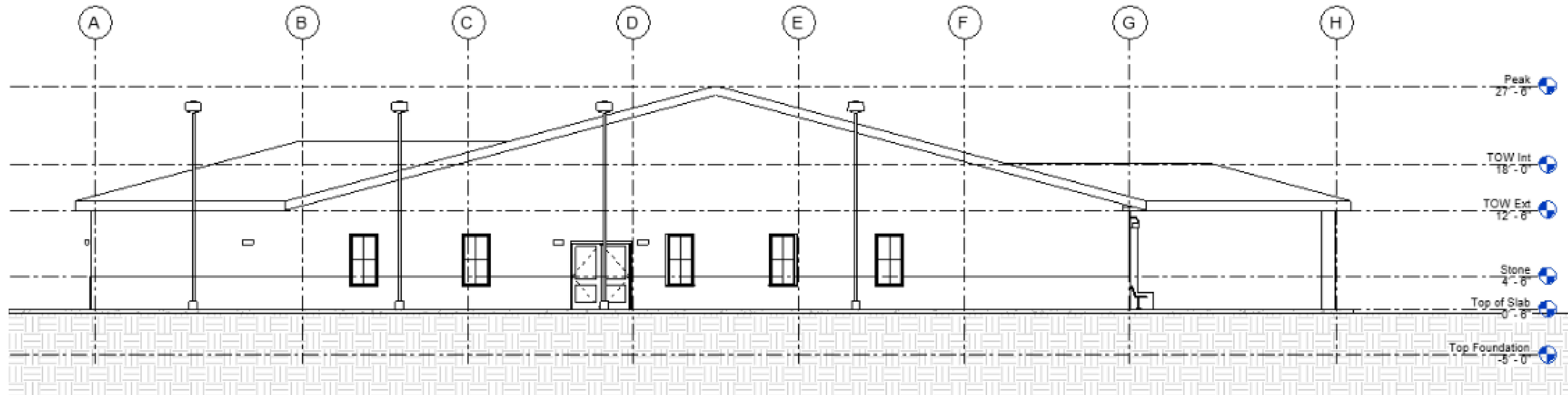
SHEET NAME  
 Community Center  
 Interior Layout

SHEET NO.  
**03**

# NORTH ELEVATION



# SOUTH ELEVATION



PROJECT: CEE: 4850

DATE: 05/08/2020

DRAWN BY: IWFD Engineering

REVISION:

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CEE logo BW - no text.tif

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Lake View Community Center

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SHEET NAME

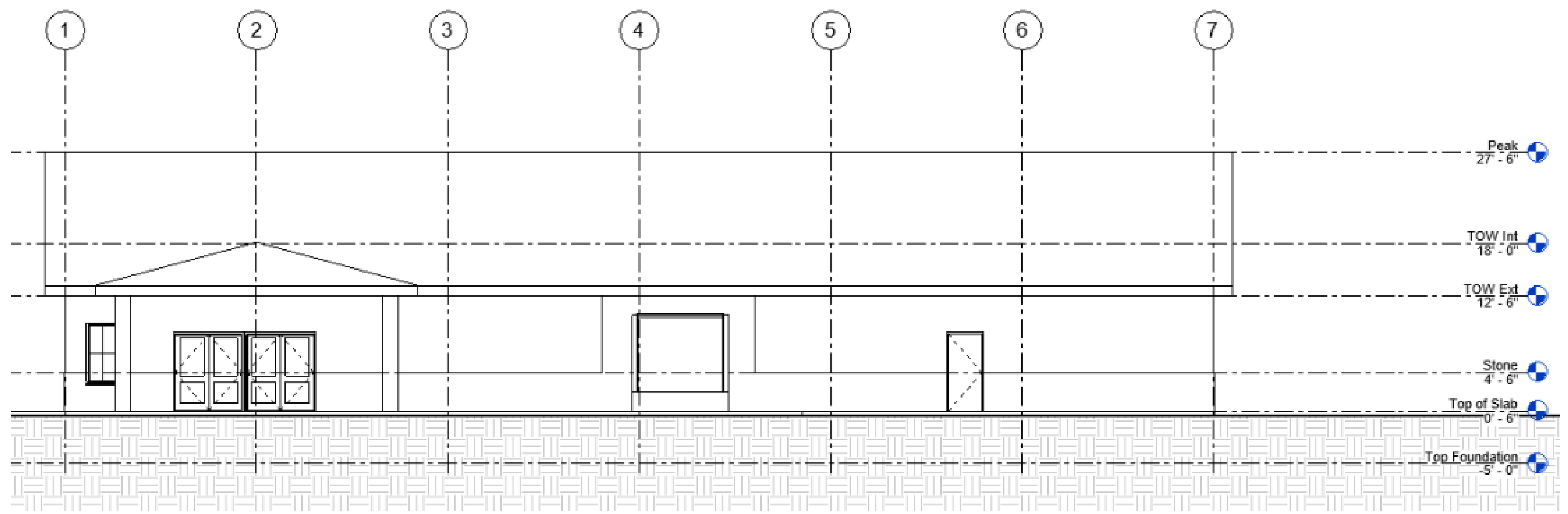
Community Center  
N-S Elevations

SHEET NO.

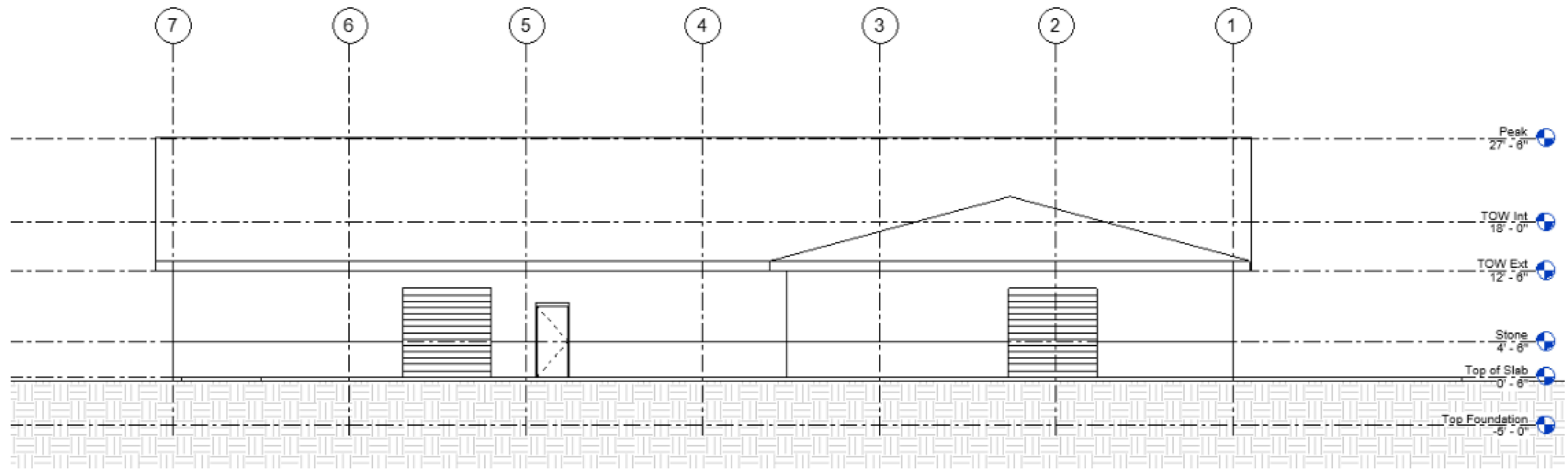
04



# EAST ELEVATION



# WEST ELEVATION



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 DATE: 05/08/2020  
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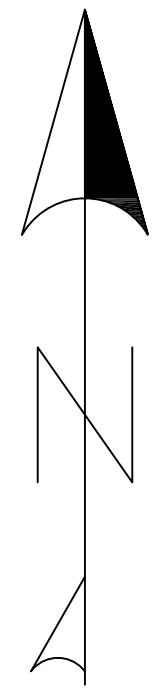


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**Lake View Community Center**  
 121 Boulder Drive, Lake View, IA 51450

SHEET NAME  
 Community Center  
 E-W Elevations

SHEET NO.  
**05**



PROJECT:	CEE: 4850
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**Lake View Community Center**  
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SHEET NAME  
 Community Center  
 Floor Plan

SHEET NO.  
**06**





PROJECT:	CEE: 4850
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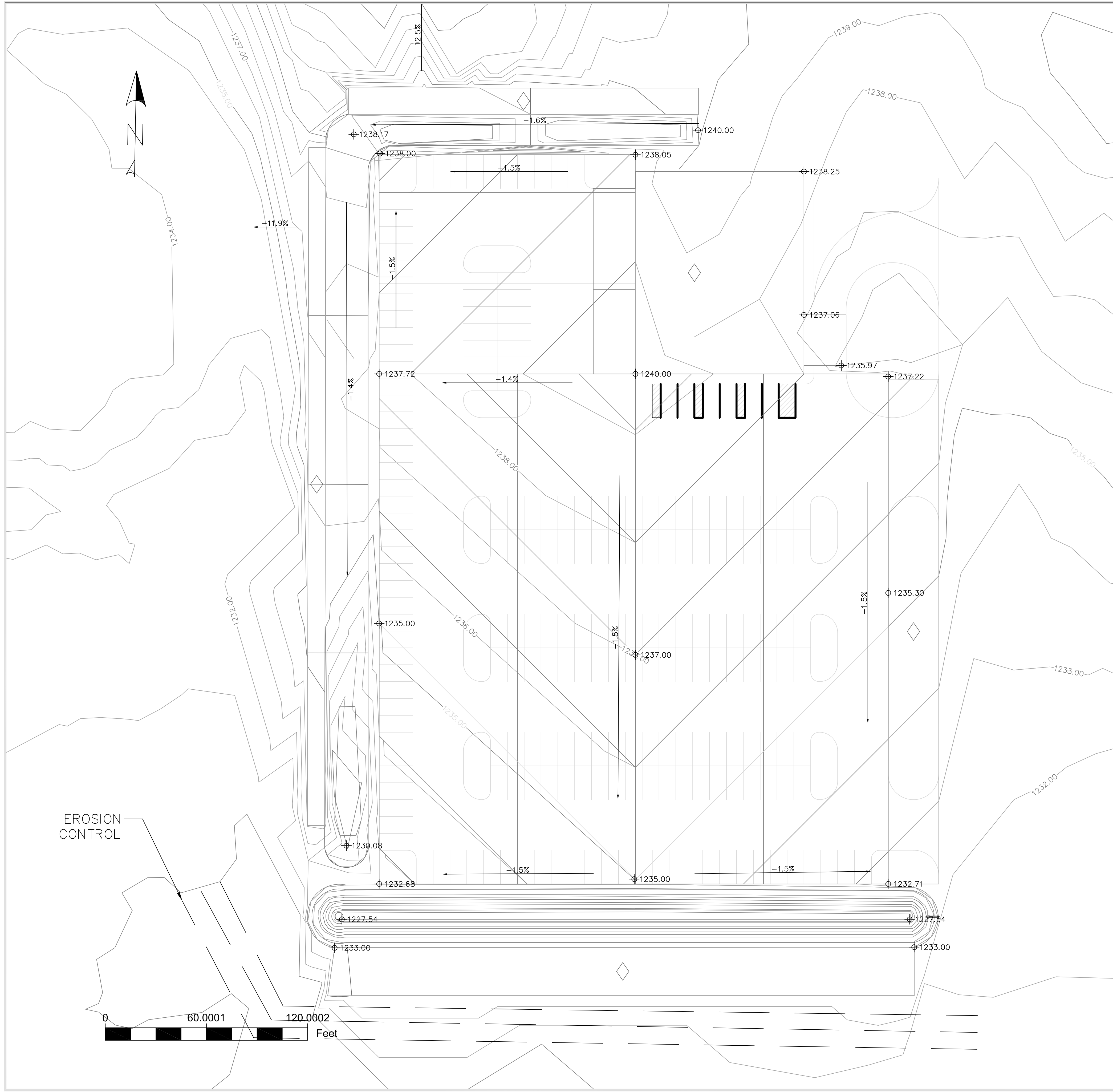


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**Lake View Community Center**  
 121 Boulder Drive, Lake View, IA 51450

SHEET NAME  
 Community Center  
 Pre-Develop Grade

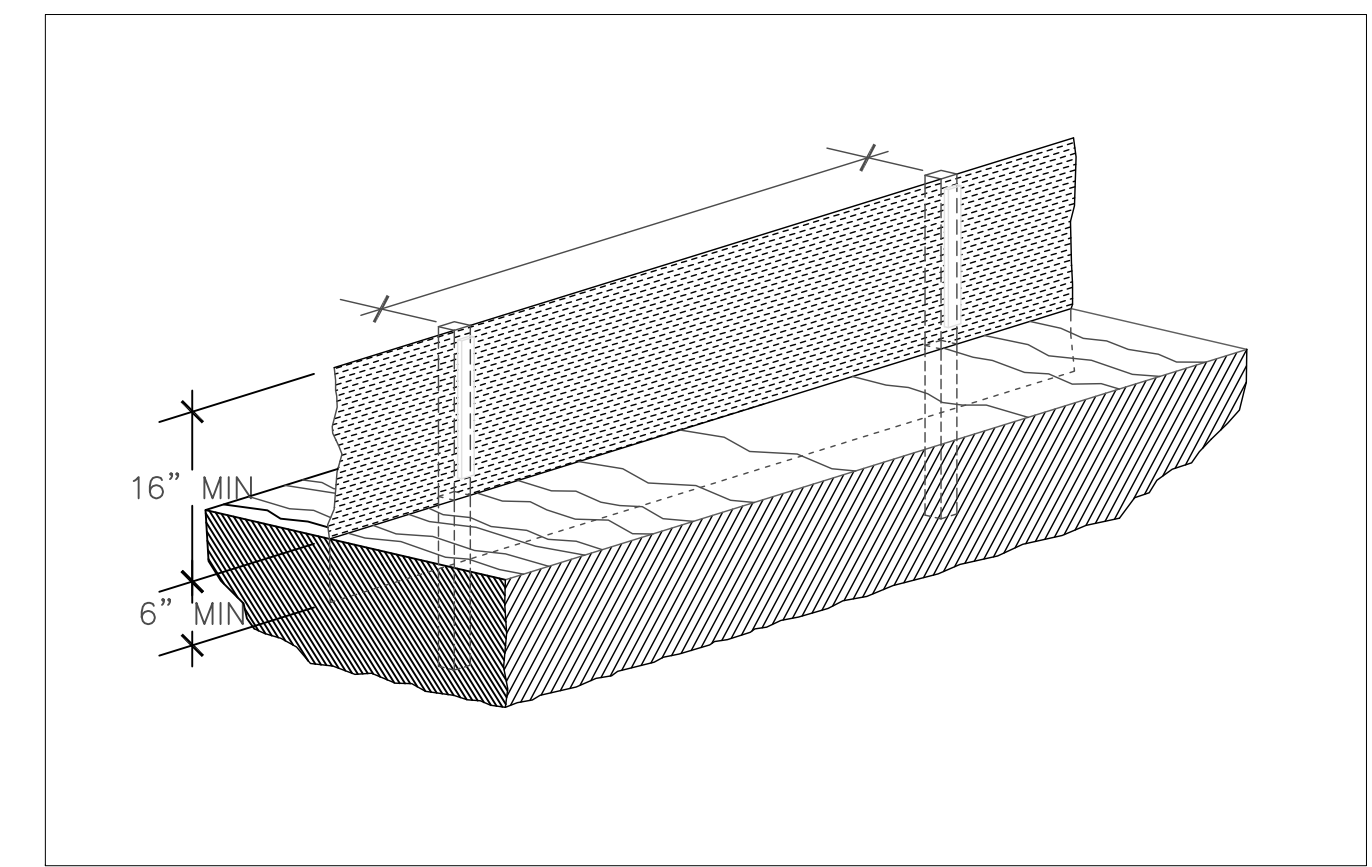
SHEET NO.  
**07**



**GRADING NOTES:**

- All construction shall be in accordance with SUDAS and the Local Supplemental Specifications
- All paving spot elevations are at gutter unless otherwise noted
- All spot elevations around structure are at base of the building – level with top of curb and gutter
- Backfill to top of all curbs
- All compaction shall be done to density of no less than 95% of Proctor
- Final grades within pavement shall be done to 0.1" accuracy, 0.2" for others
- Topsoil to be re-spread no less than 8"
- Construction of all Green Infrastructure shall follow all Details on the respective detail sheets
- Contractor is require to take all precautionary measures to protect all existing utilities
- Sediment Control must be followed to protect nearby lake from runoff during site development
- Erosion/Sediment Control encompasses the use of three layers of silt fencing placed south of the site to catch runoff
- Silt Fencing used 32" wood stakes spaced at 8' and fencing that is a minimum of 16" tall. Details can be viewed under Silt Fencing Details

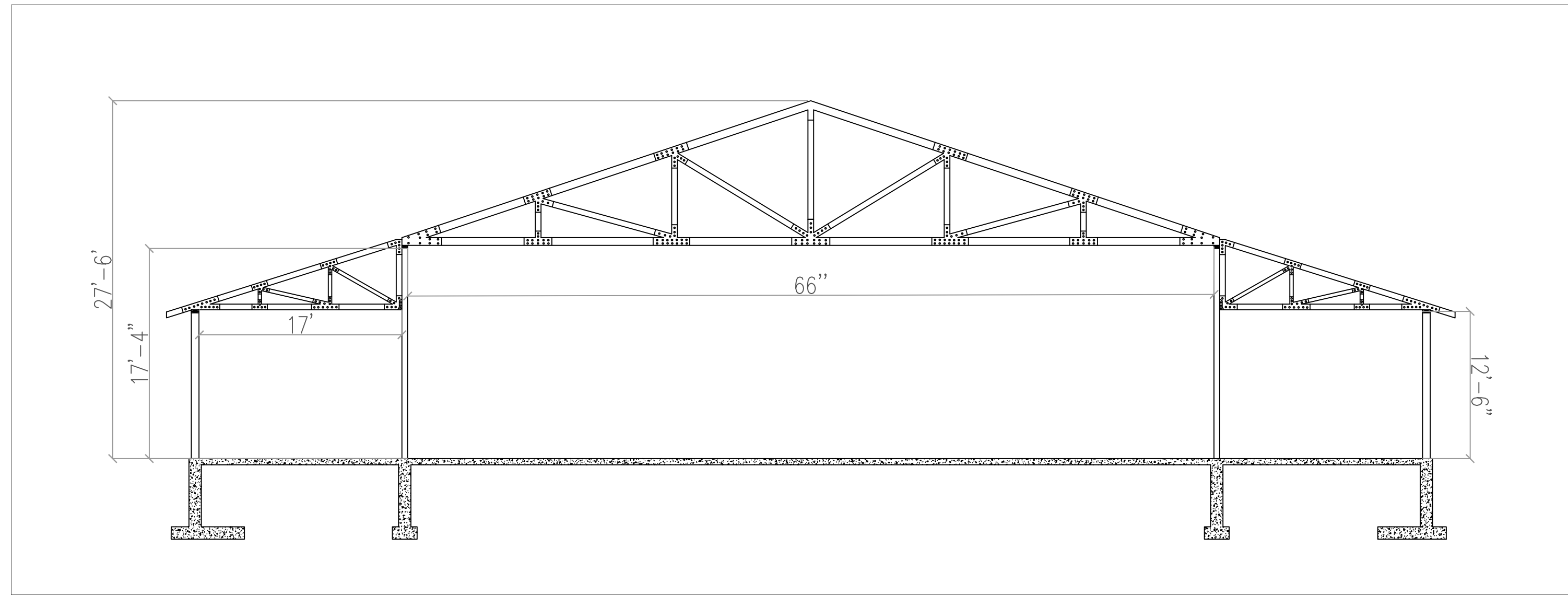
SILT FENCE DETAILS



<b>THE UNIVERSITY OF IOWA</b>	PROJECT: CEE: 4850	DATE: 05/08/2020
<b>CIVIL AND ENVIRONMENTAL ENGINEERING</b>	DRAWN BY: IWFD Engineering	REVISION:
4105 SEAMANS CENTER FOR THE ENGINEERING ARTS AND SCIENCES 103 S CAPITOL ST IOWA CITY, IOWA 52242 PHONE: 319.335.5647 FAX: 319.335.5660 EMAIL: civil-hawks@iowa.edu		
<b>Lake View Community Center</b>	OPTIONAL - NOT FOR CONSTRUCTION	
121 Boulder Drive, Lake View, IA 51450		
SHEET NAME	Community Center Grading Plan	
SHEET NO.	<b>08</b>	



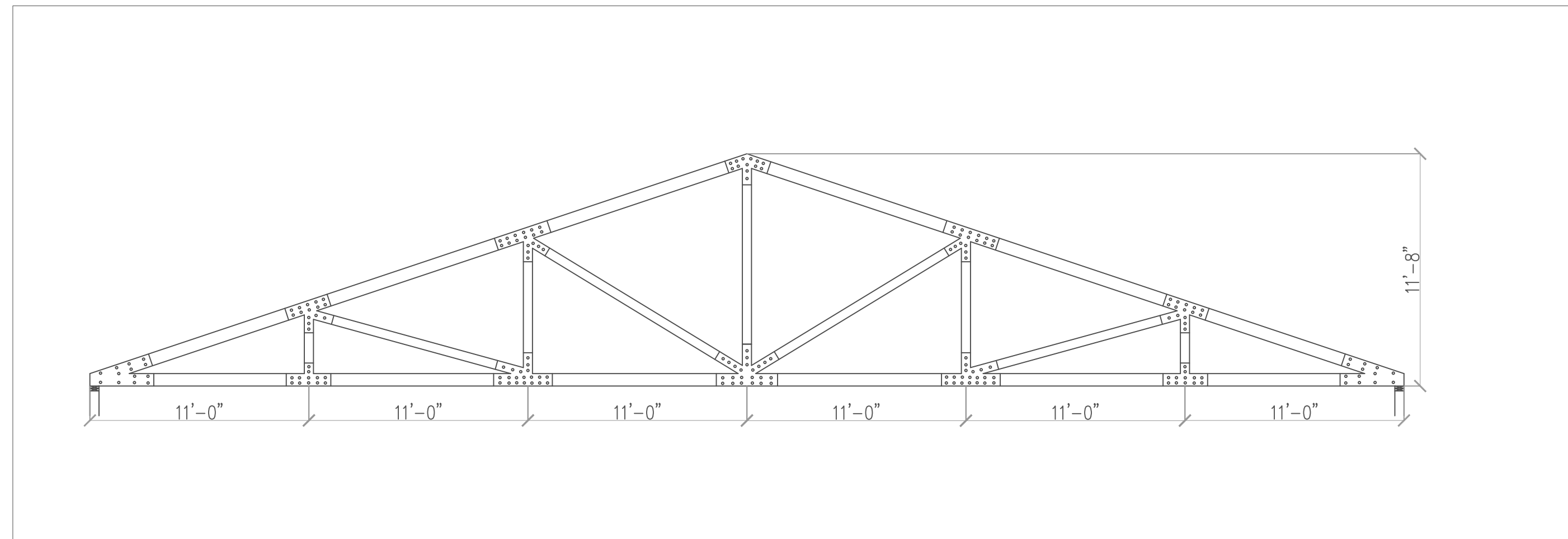
**TRUSS SYSTEM SECTION**



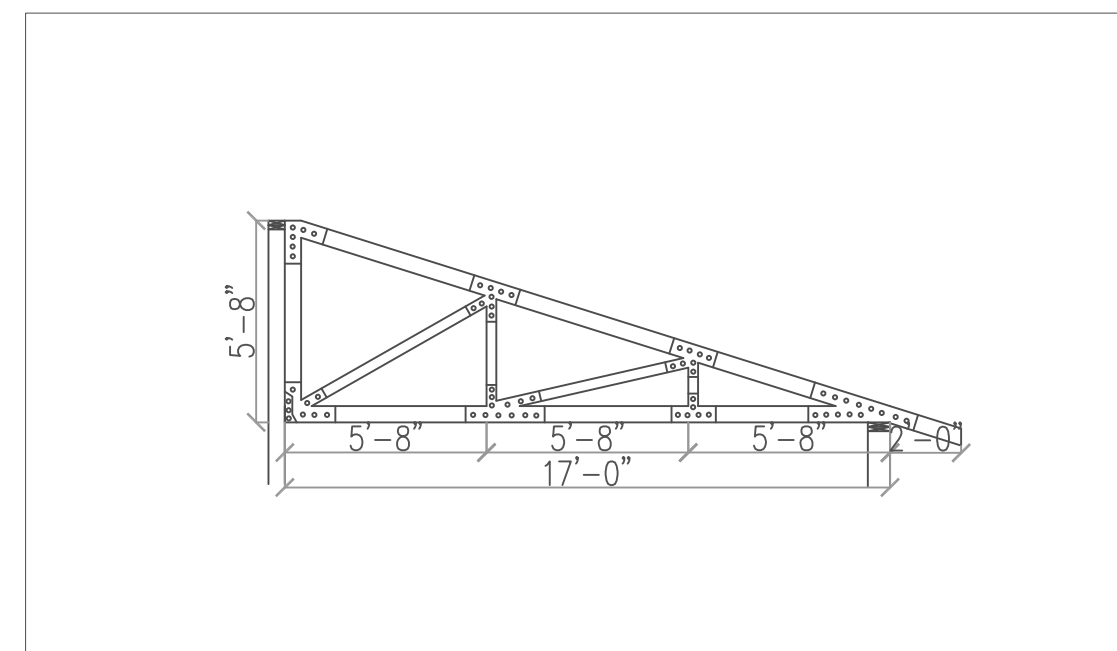
**TRUSS NOTES:**

- Section 1-1 Howe Truss Chord Dimensions: Top & Bottom Cords: 2x8; Middle: 2x6
- Section 2-2 Mono Truss Chord Dimensions: Top & Bottom Cords: 2x6; Middle: 2x6
- The howe truss' are to span across main room and connection to the interior load bearing walls
- Fabricator will provided connection details
- Mono truss' will span from interior bearing walls to exterior shear walls
- The height from ground to bottom truss' is greater than ceiling height to allow room HVAC system
- Truss system to be placed every 2 feet

**SECTION 1-1 HOWE TRUSS**



**SECTION 2-2 MONO TRUSS**



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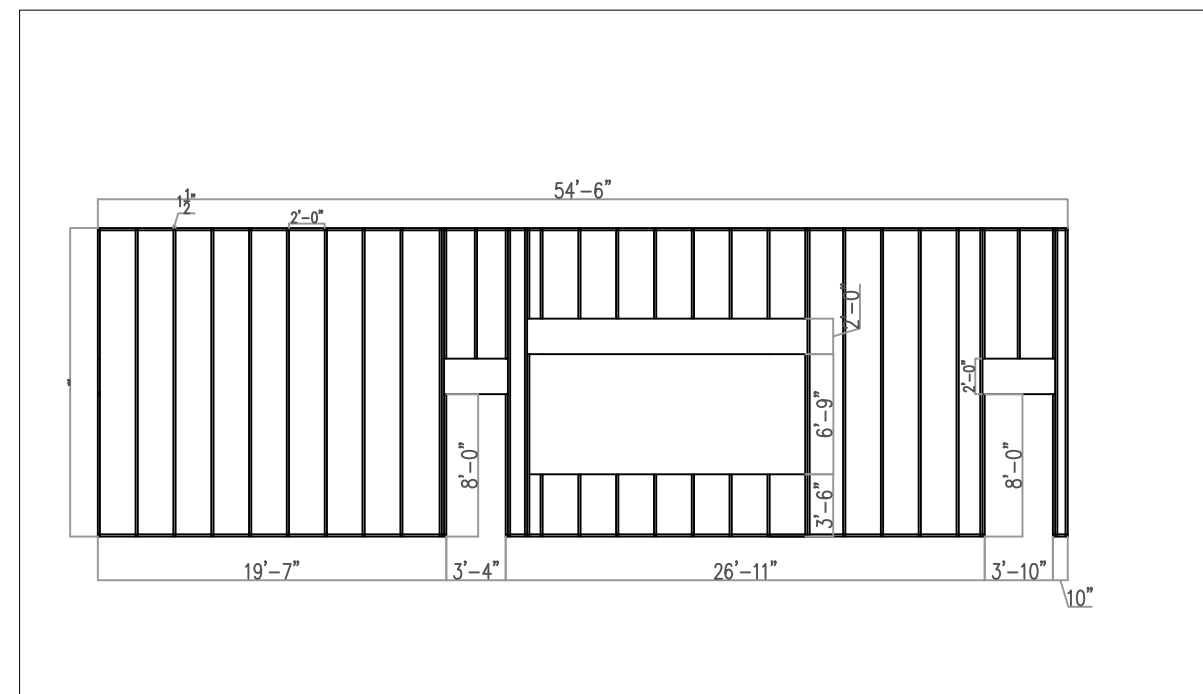
**Lake View Community Center**  
 121 Boulder Drive, Lake View, IA 51450

SHEET NAME  
 Community Center  
 Truss Details

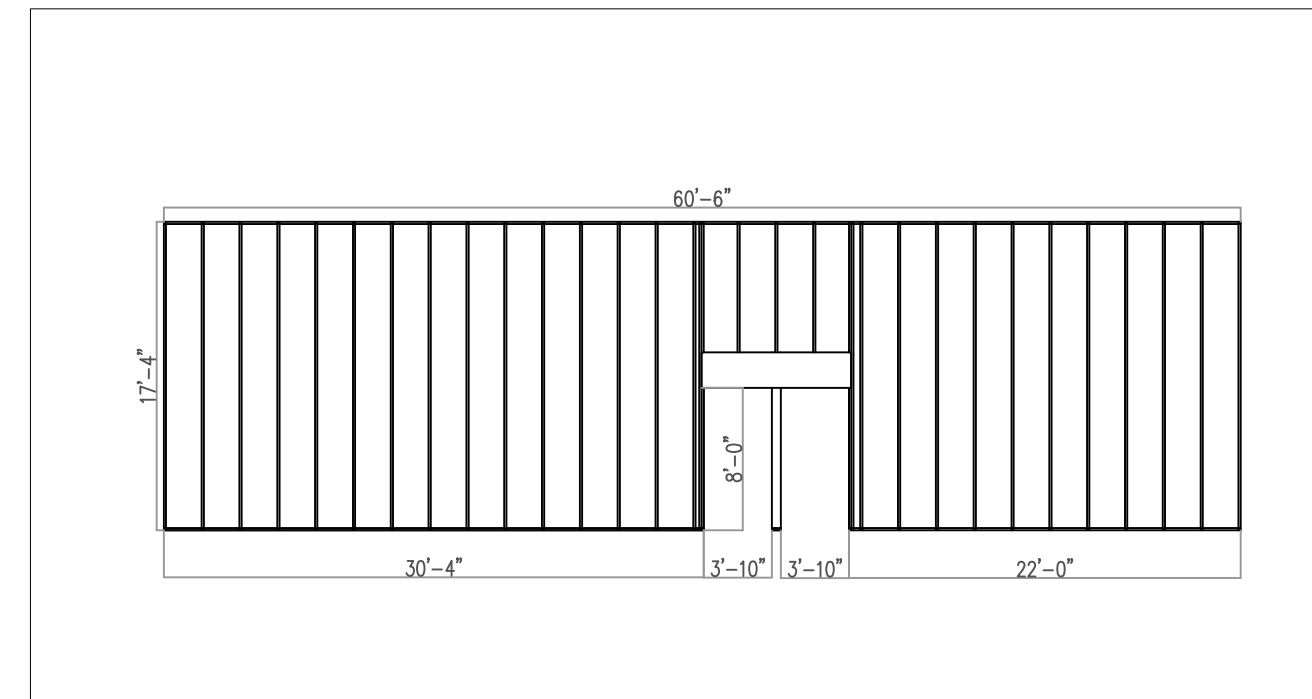
SHEET NO.  
**09**

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**SECTION A-A WEST INTERIOR BEARING WALL**



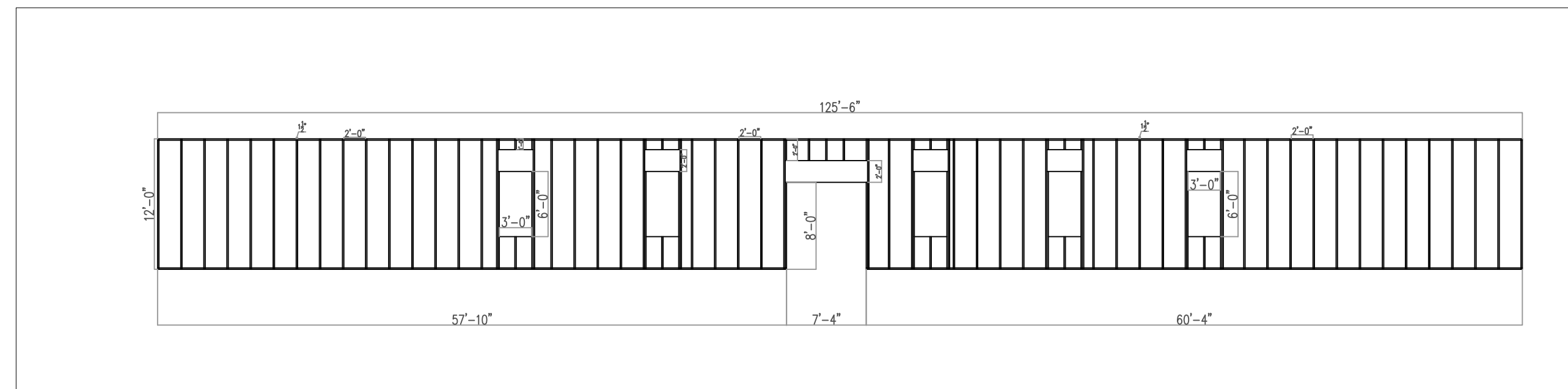
**SECTION B-B EAST INTERIOR BEARING WALL**



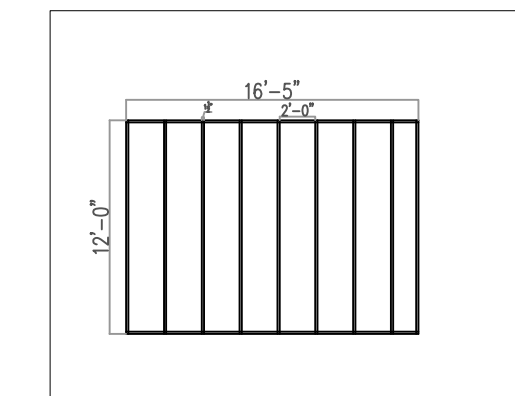
**WALL NOTES:**

- All Exterior walls are composed of 2x8 wood.
- Interior bearing walls are composed of 2x6 wood.
- All transverse stiffeners are sized at 4.5" x  $\frac{3}{8}$ "
- All non-load bearing interior walls (i.e. Section G-G), are composed of 2x4 wood
- Contractor is allowed to use pre-constructed frames, but must be inspected on site by a certified inspector
- Construction of wood frames or to follow design specification and all specifications from the Wood Frame Construction Manual

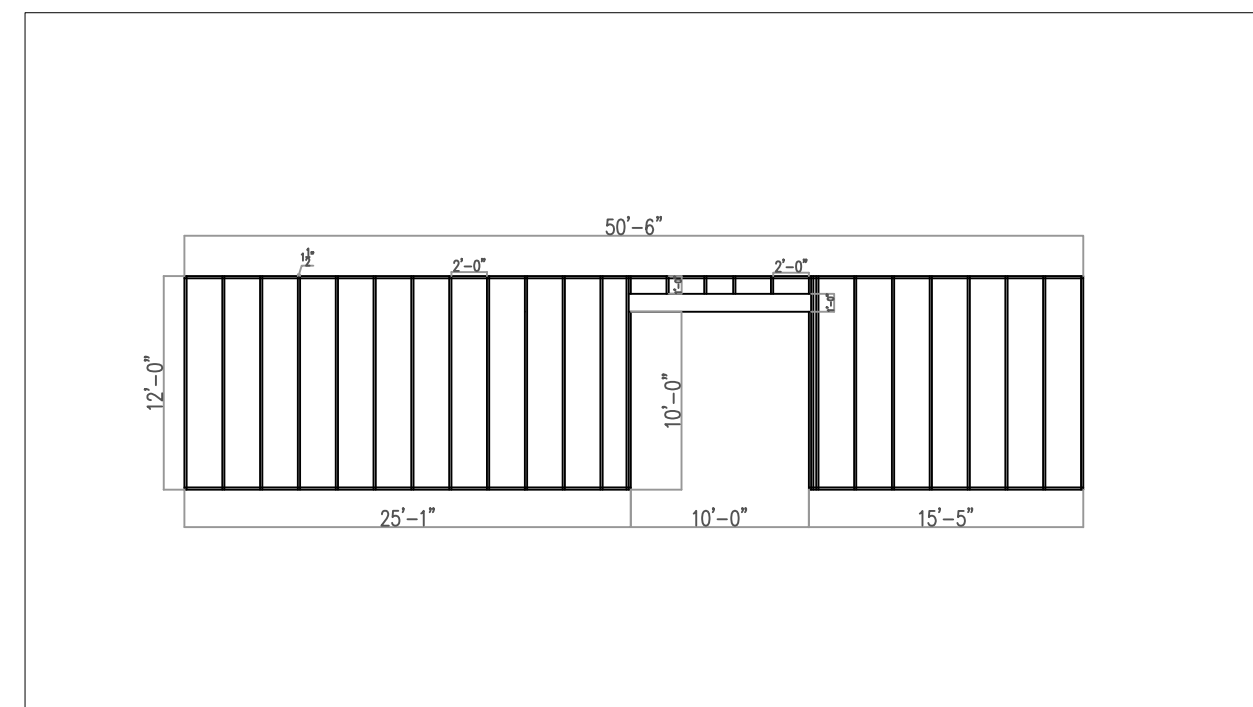
**SECTION C-C SOUTH EXTERIOR SHEAR WALL**



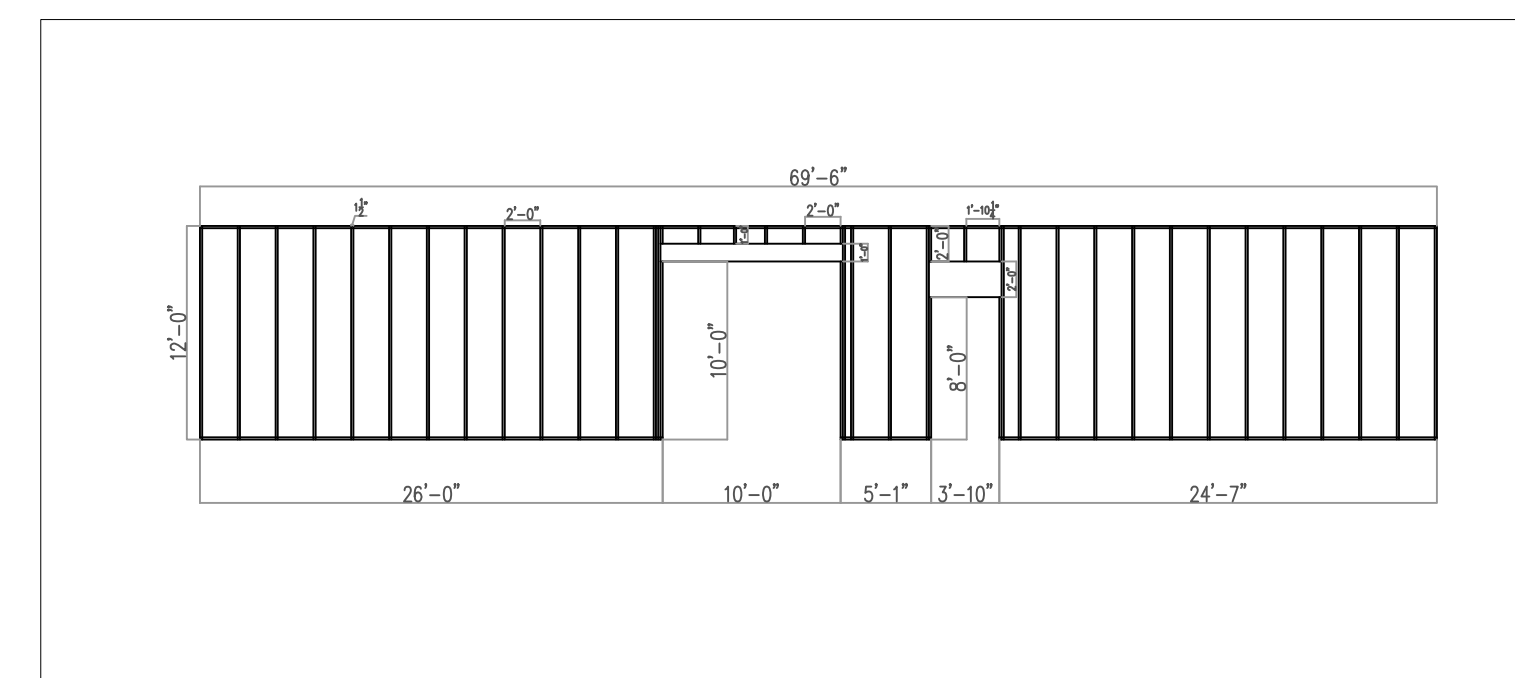
**SECTION G-G INTERIOR WALL**



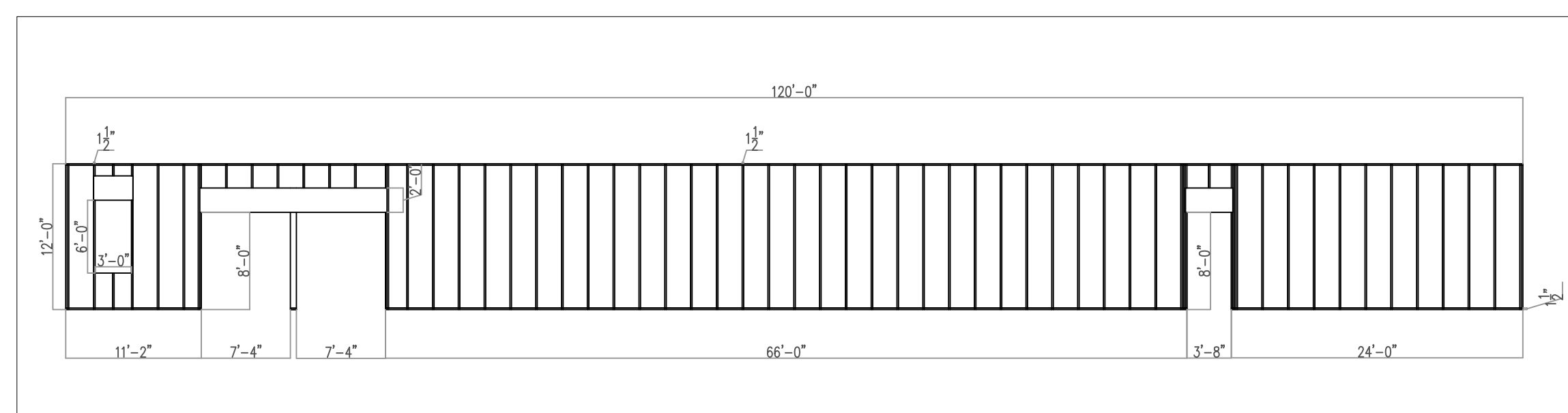
**SECTION D-D LOWER WEST EXTERIOR SHEAR WALL**



**SECTION E-E UPPER WEST EXTERIOR SHEAR WALL**



**SECTION F-F EAST EXTERIOR SHEAR WALL**



PROJECT:	CEE: 4850
DATE :	05/08/2020
DRAWN BY:	IWFD Engineering
REVISION:	

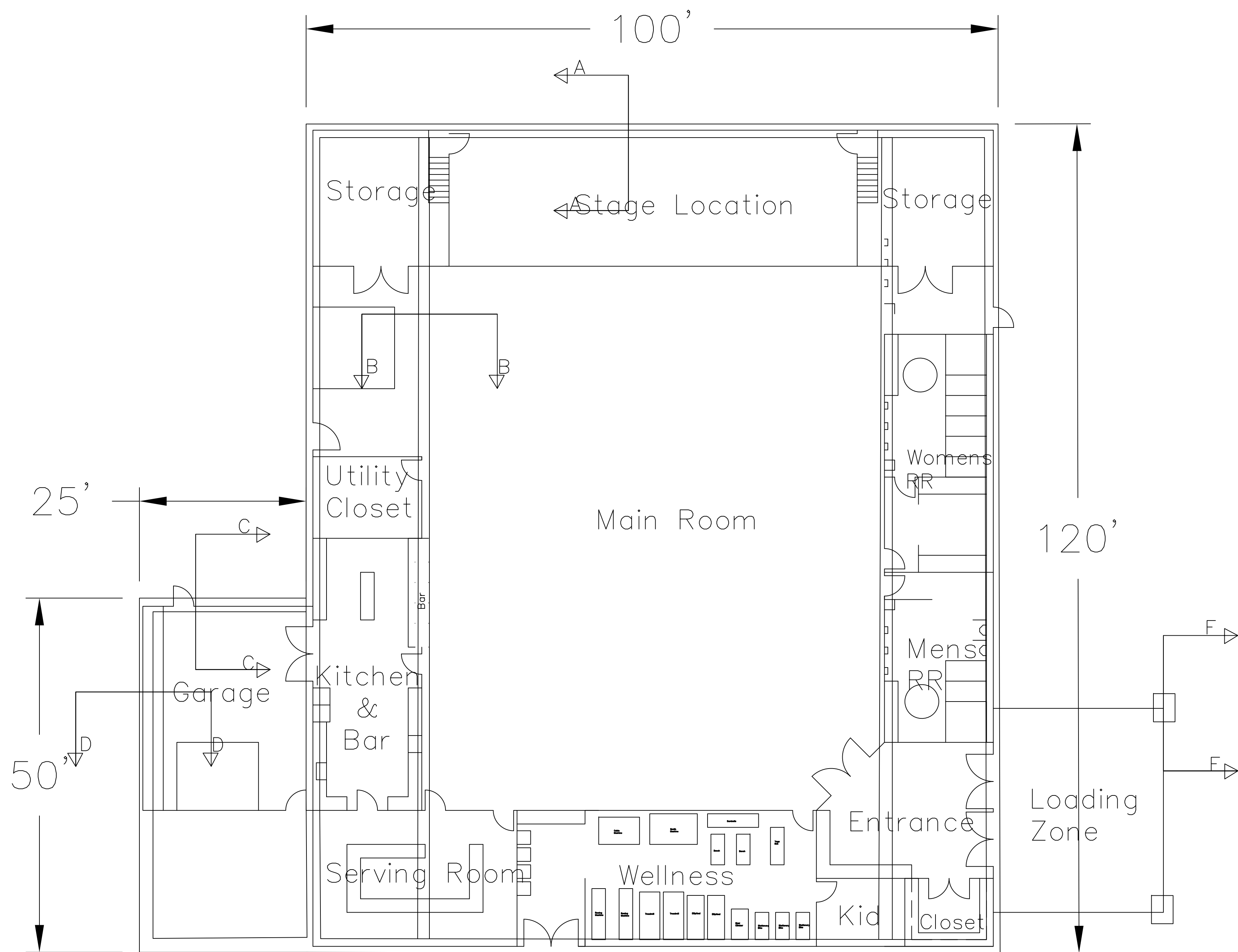
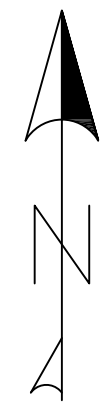
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**Lake View Community Center**  
 121 Boulder Drive, Lake View, IA 51450

SHEET NAME  
 Community Center  
 Wall Details

SHEET NO.  
**10**





FOUNDATION NOTES:

- All Rebar - #5
- Spaced at 12" in both directions
- No shear reinforcement necessary
- Normal Weight Concrete
- Section A-A: Exterior Foundations
- Section B-B: All Interior Foundations
- Section C-C: North Garage Foundation
- Section D-D: West Garage Foundation
- Section E-E: Overhang Spread Footings
- Further foundation details can be found in the Foundation Details Sheet

PROJECT:	CEE: 4850
DATE :	05/08/2020
DRAWN BY:	IWFD Engineering
REVISION:	

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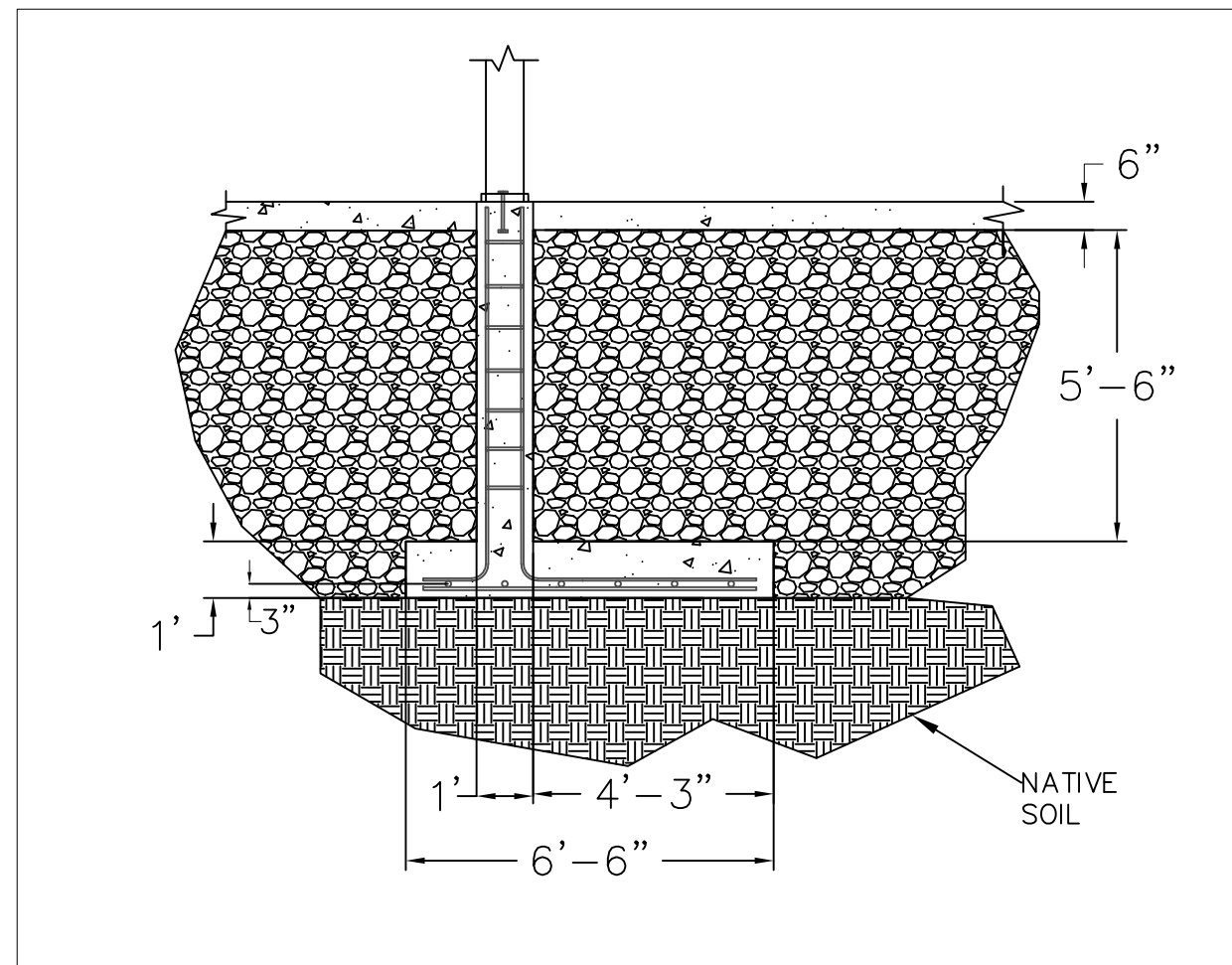
**Lake View Community Center**

121 Boulder Drive, Lake View, IA 51450

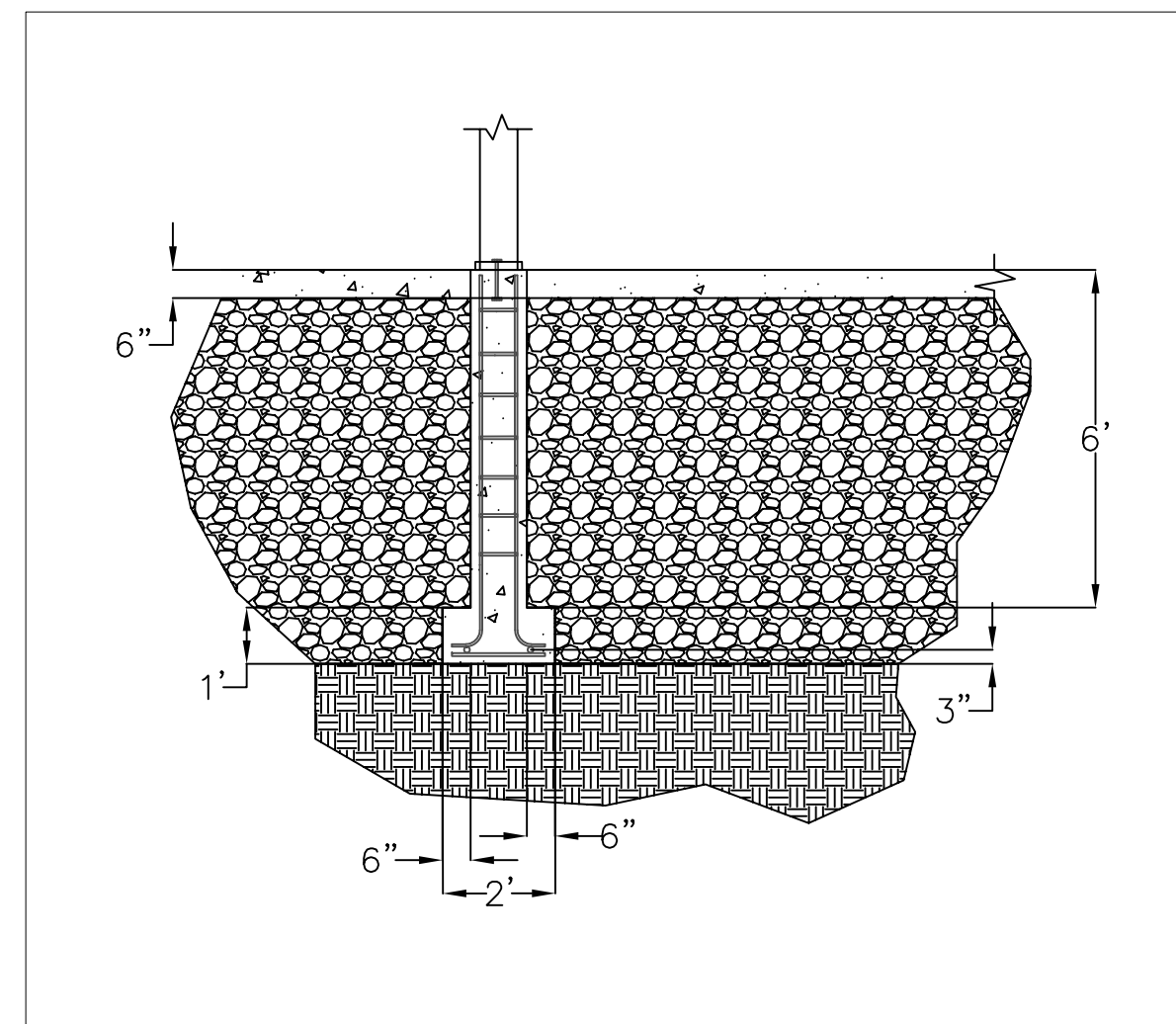
SHEET NAME  
 Community Center  
 Foundation Plan

SHEET NO.  
**11**

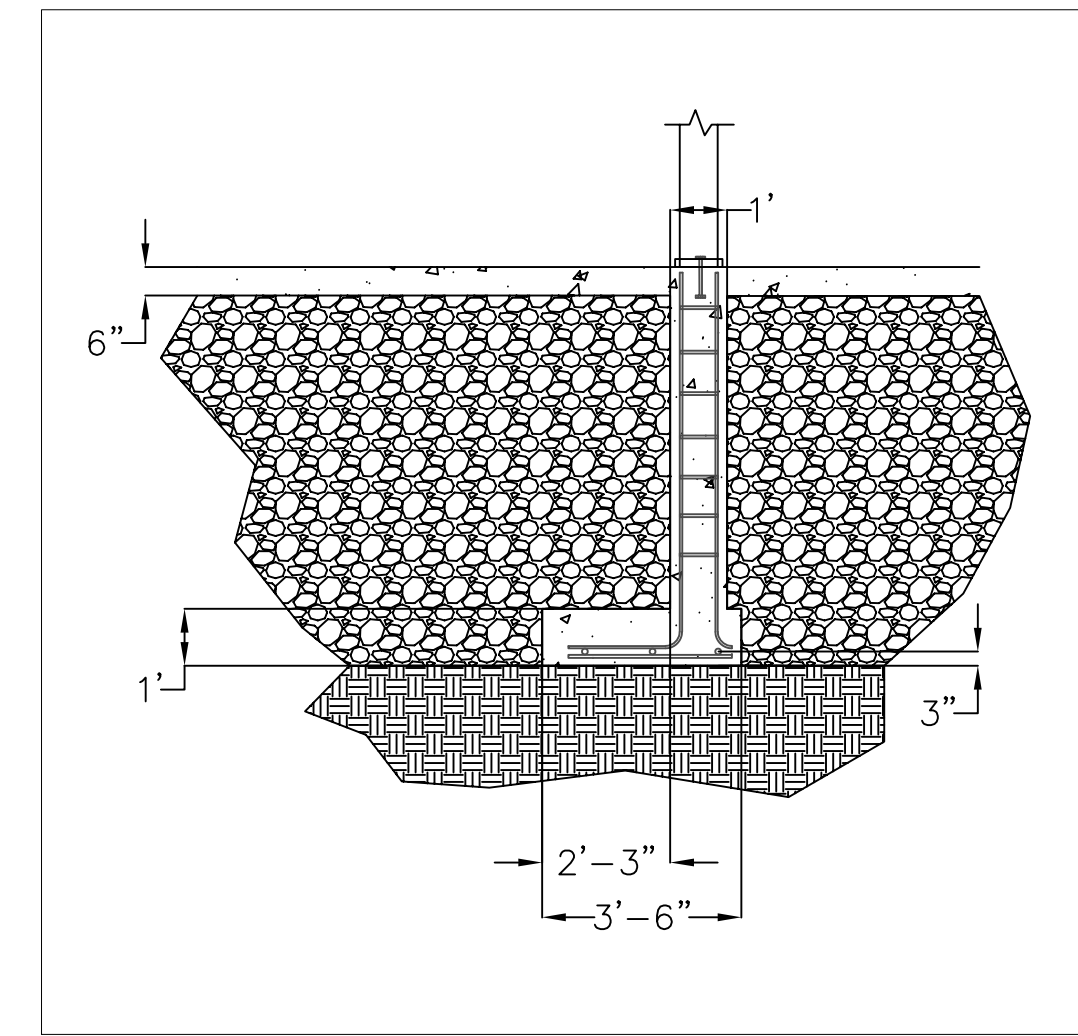
SECTION A - A



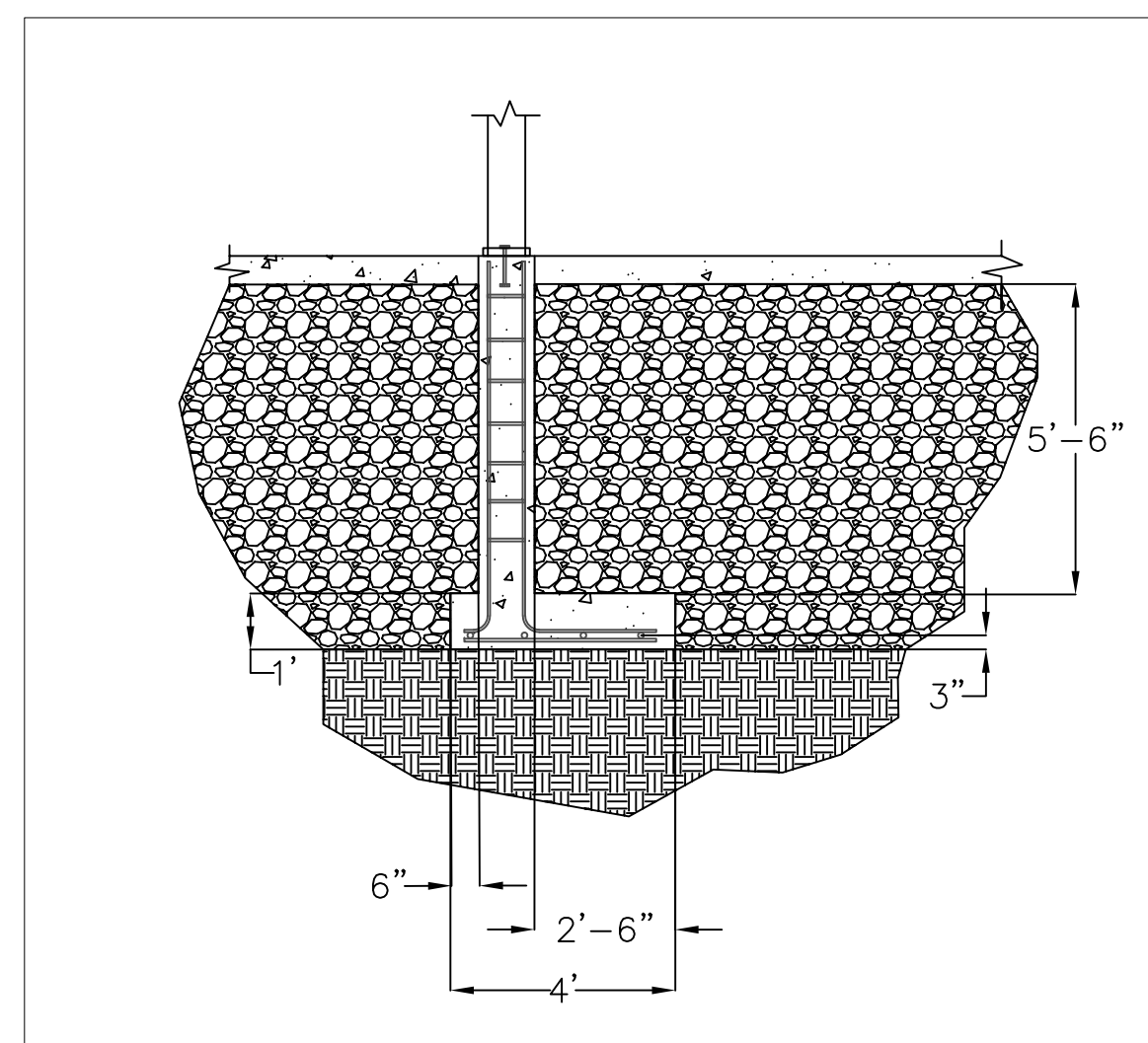
SECTION B - B



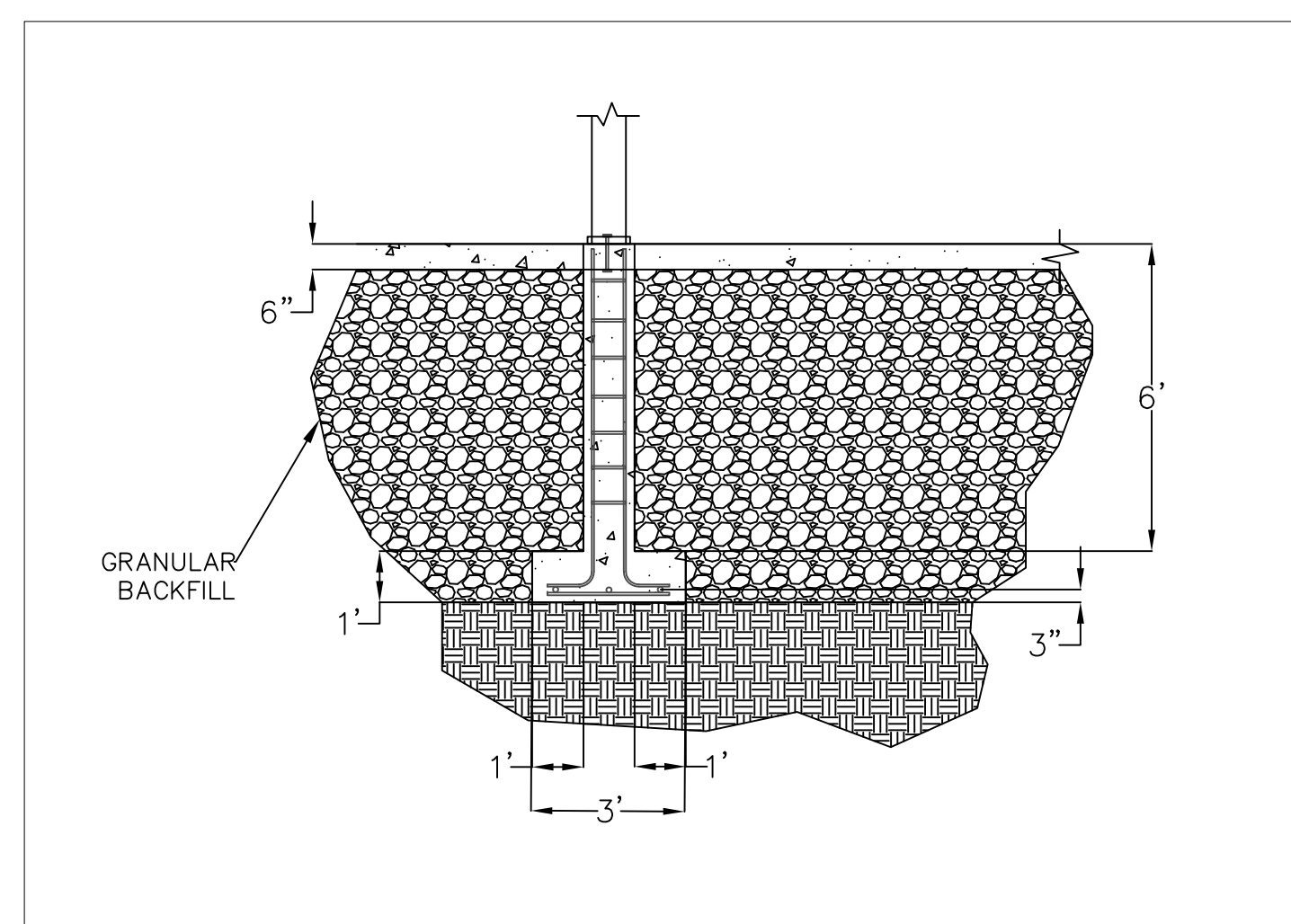
SECTION C - C



SECTION D - D



SECTION E - E

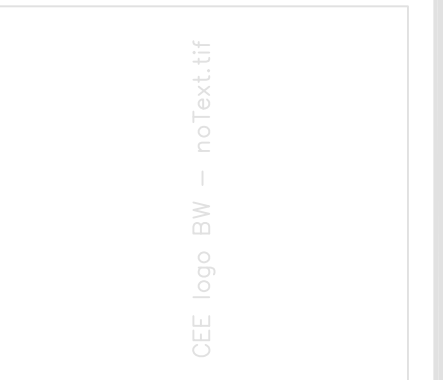


FOUNDATION NOTES:

- All Rebar - #5
- Spaced at 12" in both directions
- No shear reinforcement necessary
- 3" Clear Cover Used in accordance with ACI-18
- Normal Weight Concrete (145 pcf)
- Section A-A: Exterior Foundations
- Section B-B: All Interior Foundations
- Section C-C: North Garage Foundation
- Section D-D: West Garage Foundation
- Section E-E: Overhang Entrance Spread Footings

PROJECT: CEE: 4850  
 DATE: 05/08/2020  
 DRAWN BY: IWFD Engineering  
 REVISION:

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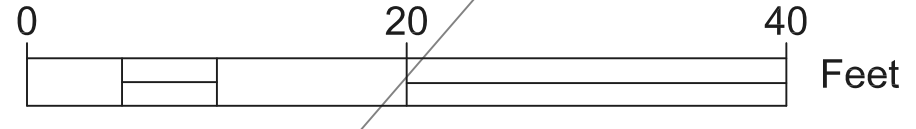
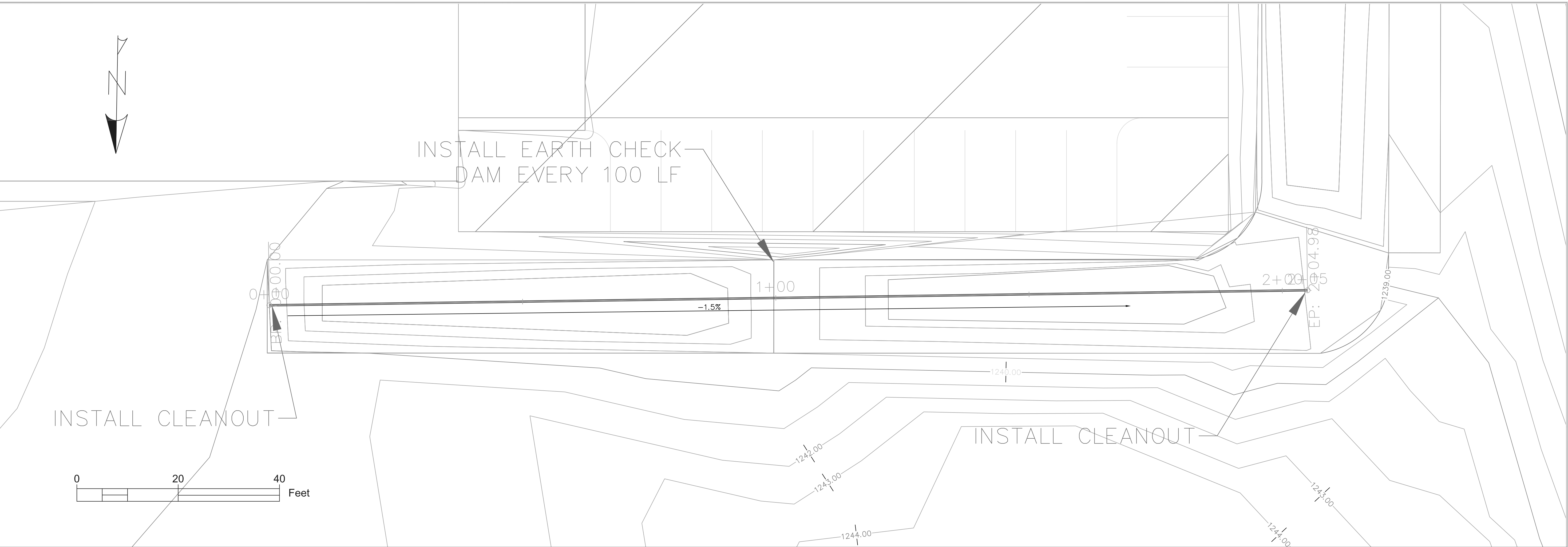


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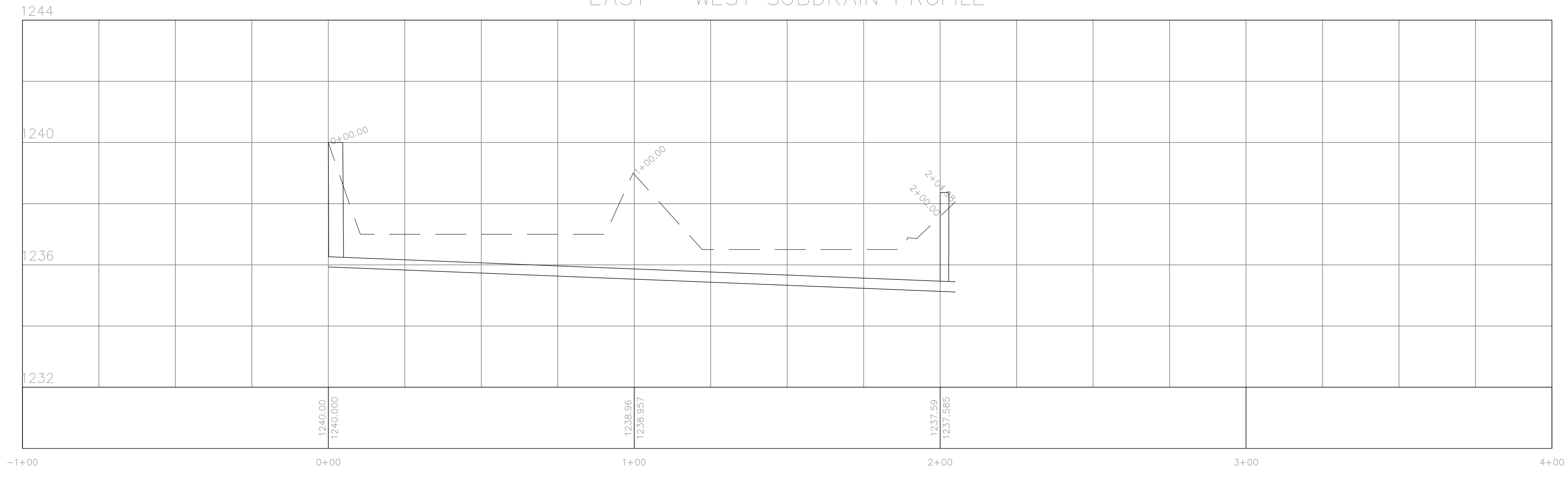
**Lake View Community Center**  
 121 Boulder Drive, Lake View, IA 51450

SHEET NAME  
 Community Center  
 Foundation Details

SHEET NO.  
**12**



EAST - WEST SUBDRAIN PROFILE



PROJECT:	CEE: 4850
DATE :	05/08/2020
DRAWN BY:	IWFD Engineering
REVISION:	

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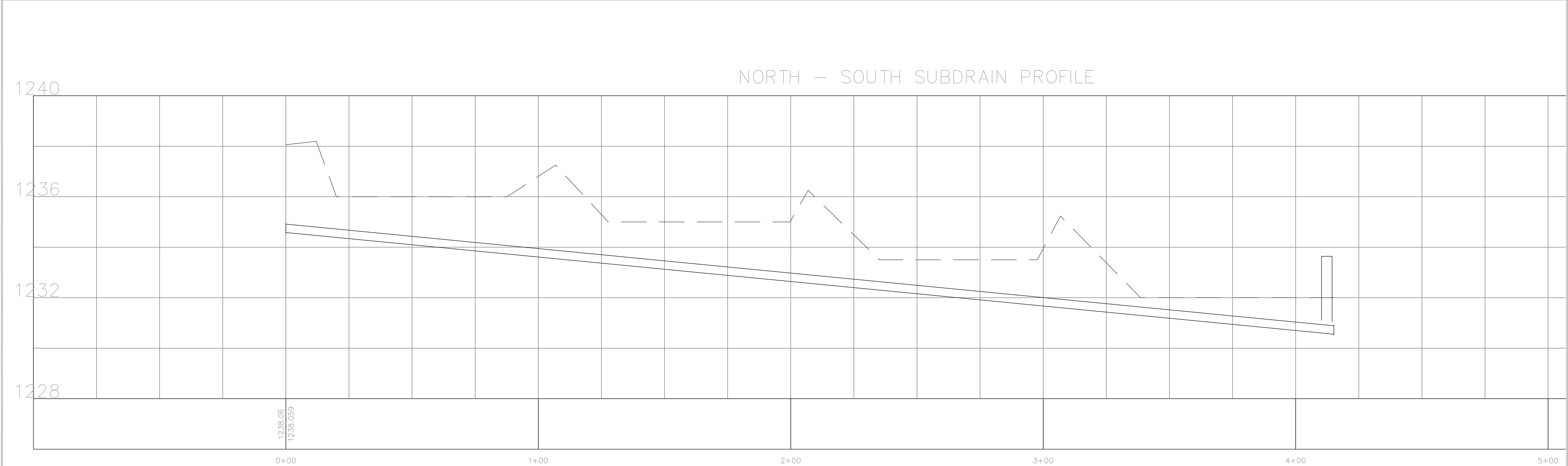
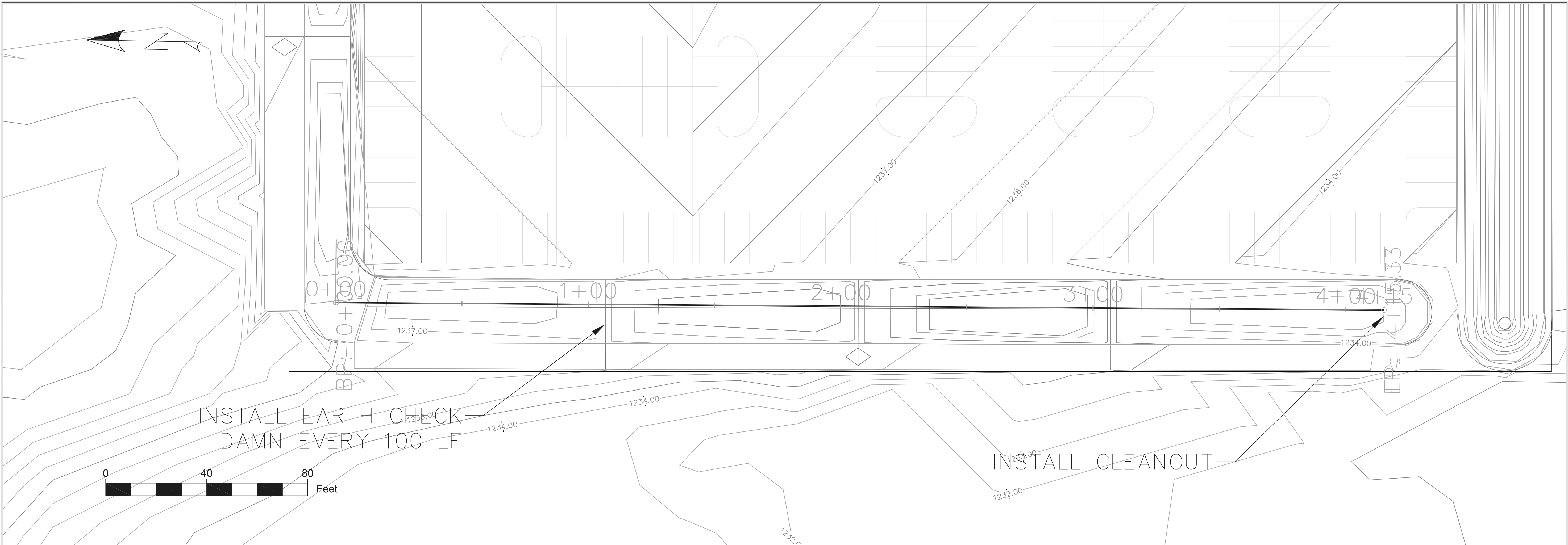
**Lake View Community Center**

121 Boulder Drive, Lake View, IA 51450

SHEET NAME  
 Community Center  
 E-W Subdrain Plan

SHEET NO.  
**13**





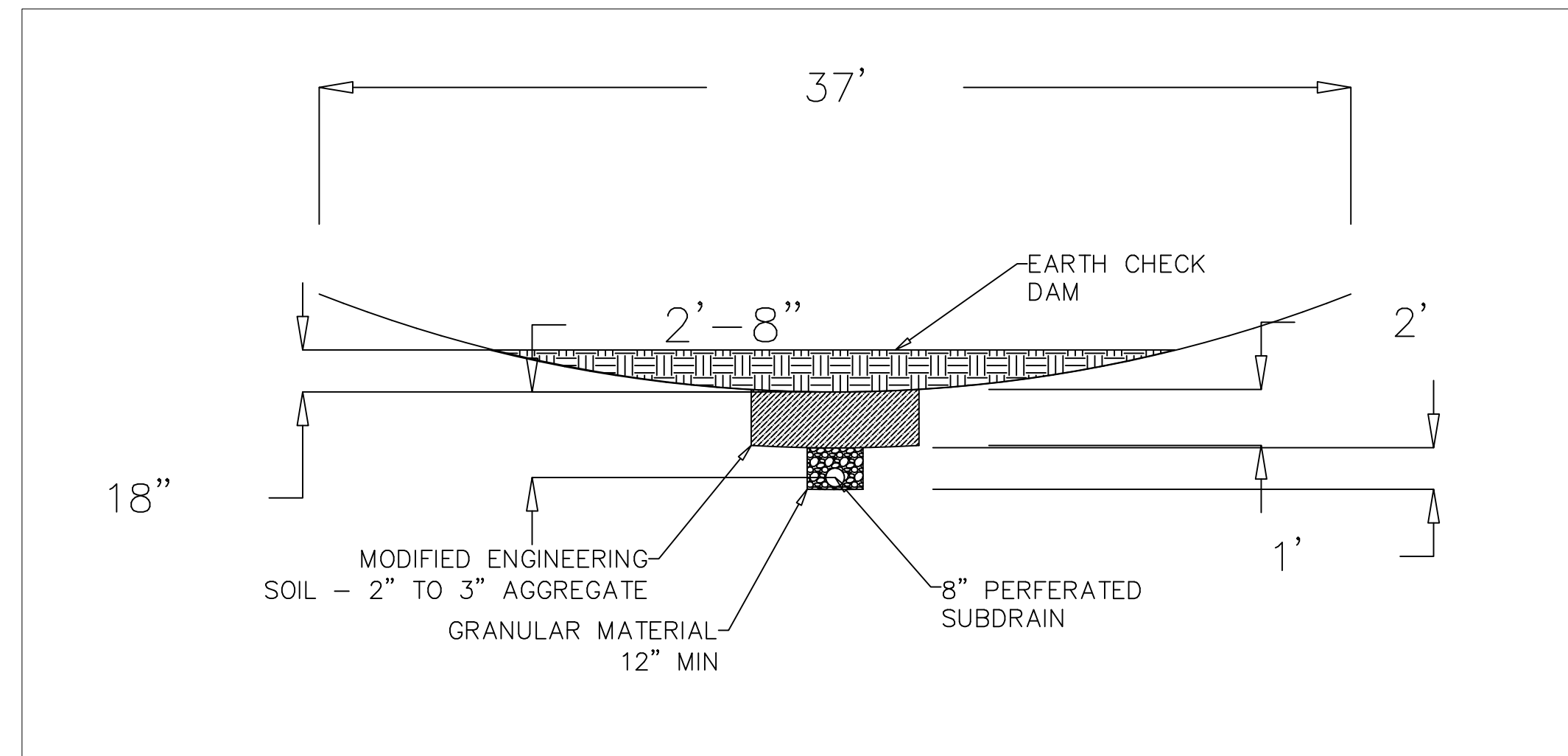
PROJECT: THE UNIVERSITY OF IOWA  
 DATE: 05/08/2020  
 DRAWN BY: CIVIL AND ENVIRONMENTAL ENGINEERING  
 REVISION: IOWA CITY, IOWA 52242  
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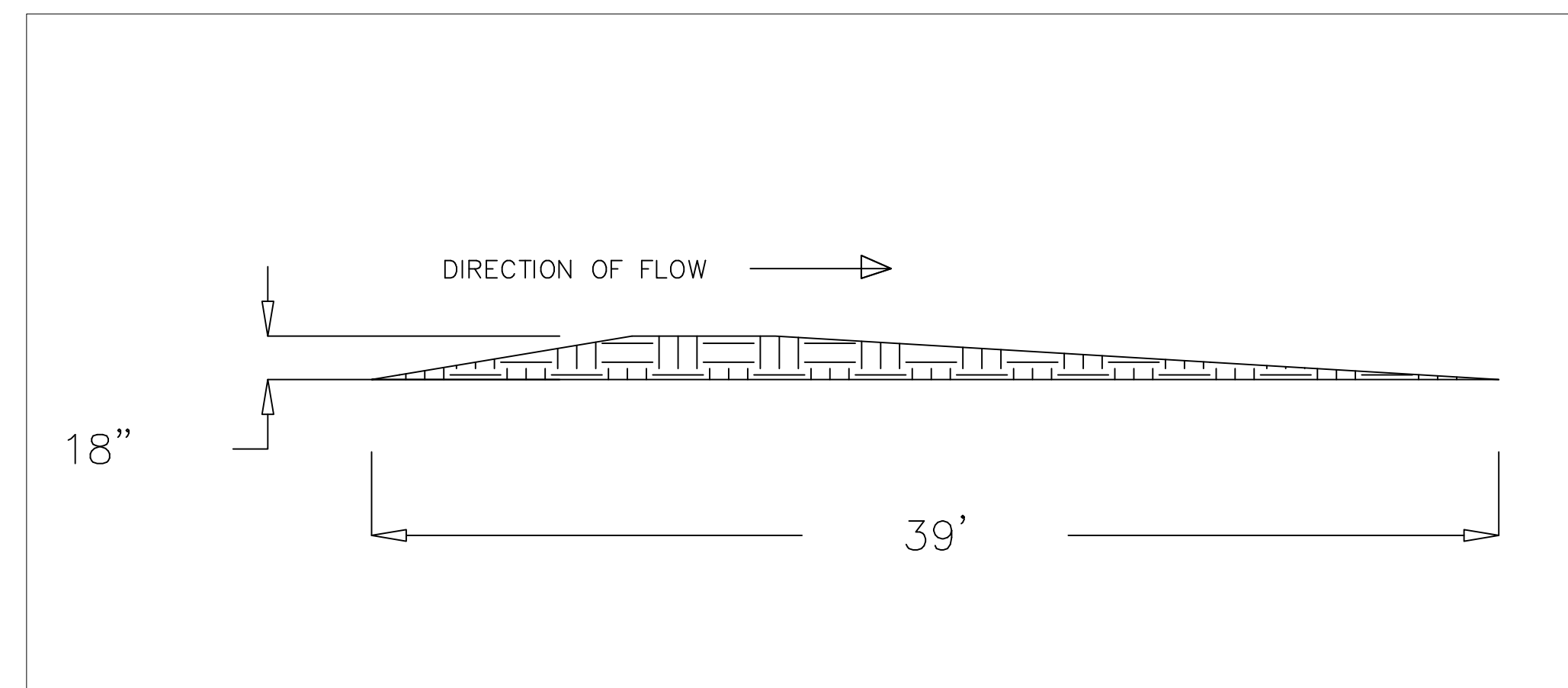
SHEET NAME  
 Community Center  
 N-S Subdrain Plan

SHEET NO.  
**14**

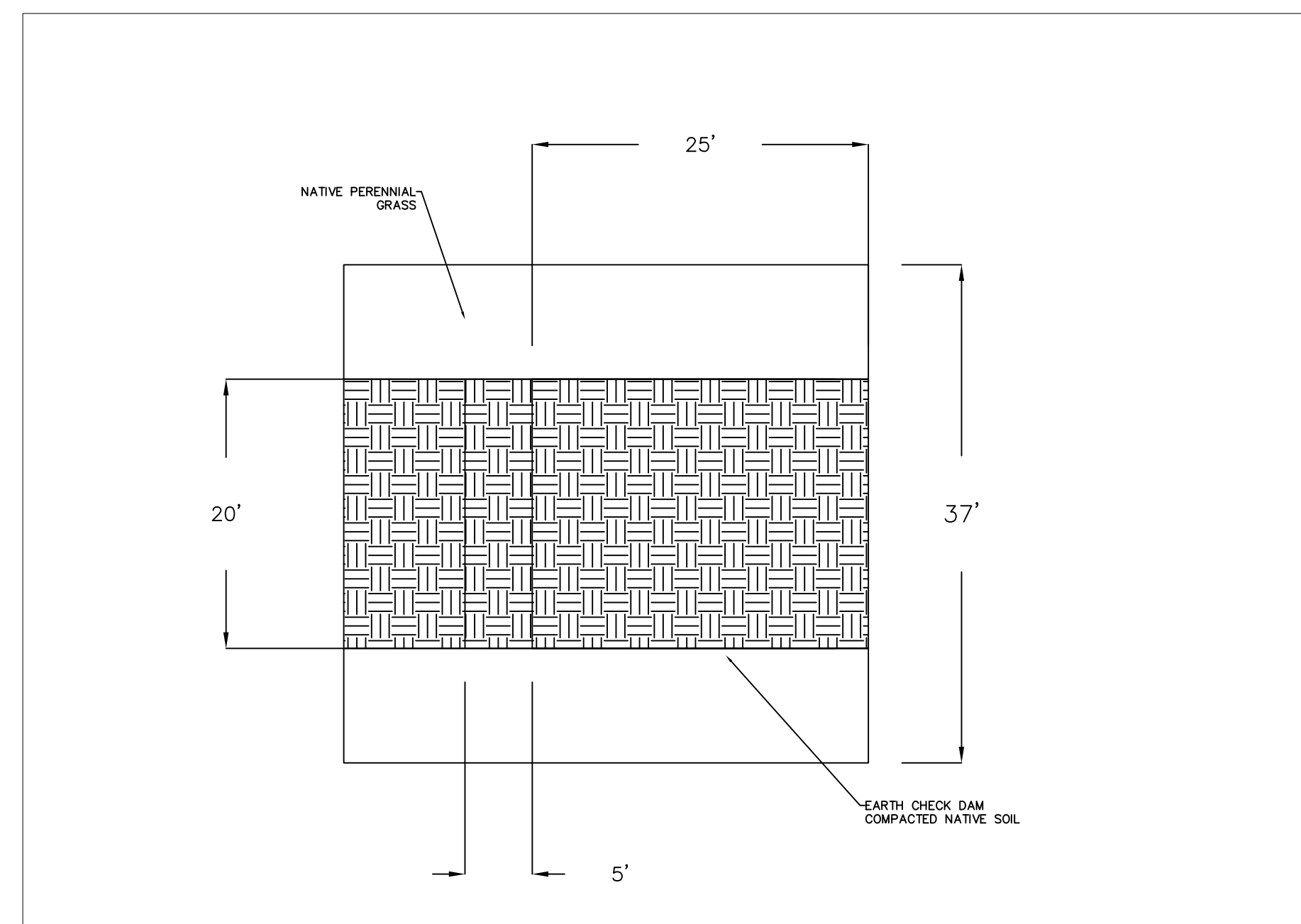
GRASS BIOSWALE CROSS-SECTION



BIOSWALE EARTH CHECK DAM SECTION



BIOSWALE EARTH CHECK DAM AERIAL



BIOSWALE NOTES:

- Designed in accordance with Iowa DNR Stormwater Manual Requirements and Specifications
- Iowa DNR Stormwater design calculations require 6 check dams in swale, spaces at least 100 feet apart
- No manhole required for perforated subdrain
- Cleanout locations can be viewed in Plan and Profile view Sheets
- Contractor to connect subdrain to existing pipe along west side of Steakhouse south of site – call Iowa One to locate
- Bioswale to be overlaid in Kentucky Bluegrass sod following construction

BIOSWALE MAINTENANCE PLAN:

- An operation and maintenance plan should be established before construction of bioswale
- Routine landscape maintenance is required
  - Maintain grass height between 4–6 inches
- Annual inspection for erosion damage and problems
  - Recommended that bioswale be inspected following unusually large rainstorm
- Remove trash and other large debris monthly
- If necessary, remove sediment buildup bi-annually
- Subdrain cleaning frequency recommends bi-annual cleaning to remove debris and optimize subdrain performance

PROJECT:	CEE: 4850
DATE :	05/08/2020
DRAWN BY:	IWFD Engineering
REVISION:	

**THE UNIVERSITY OF IOWA**  
**CIVIL AND ENVIRONMENTAL ENGINEERING**  
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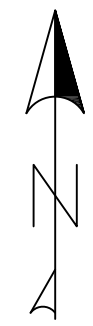
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**Lake View Community Center**

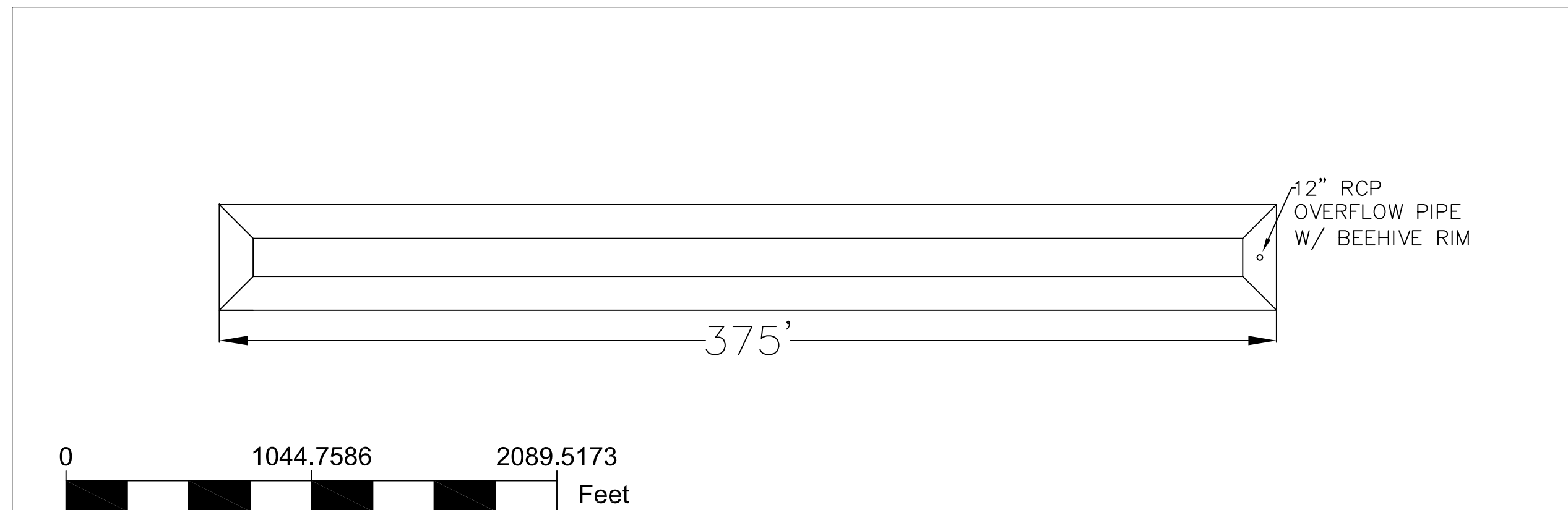
121 Boulder Drive, Lake View, IA 51450

SHEET NAME  
 Community Center  
 Bioswale Details

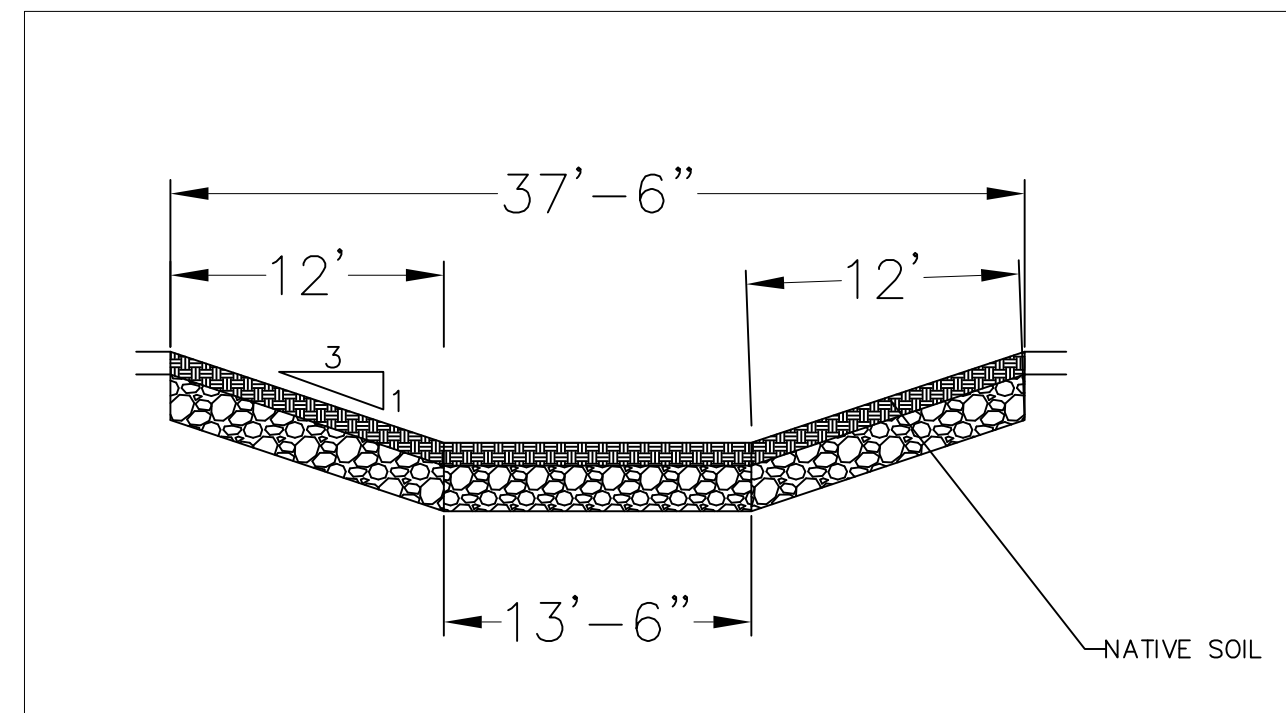
SHEET NO.  
**15**



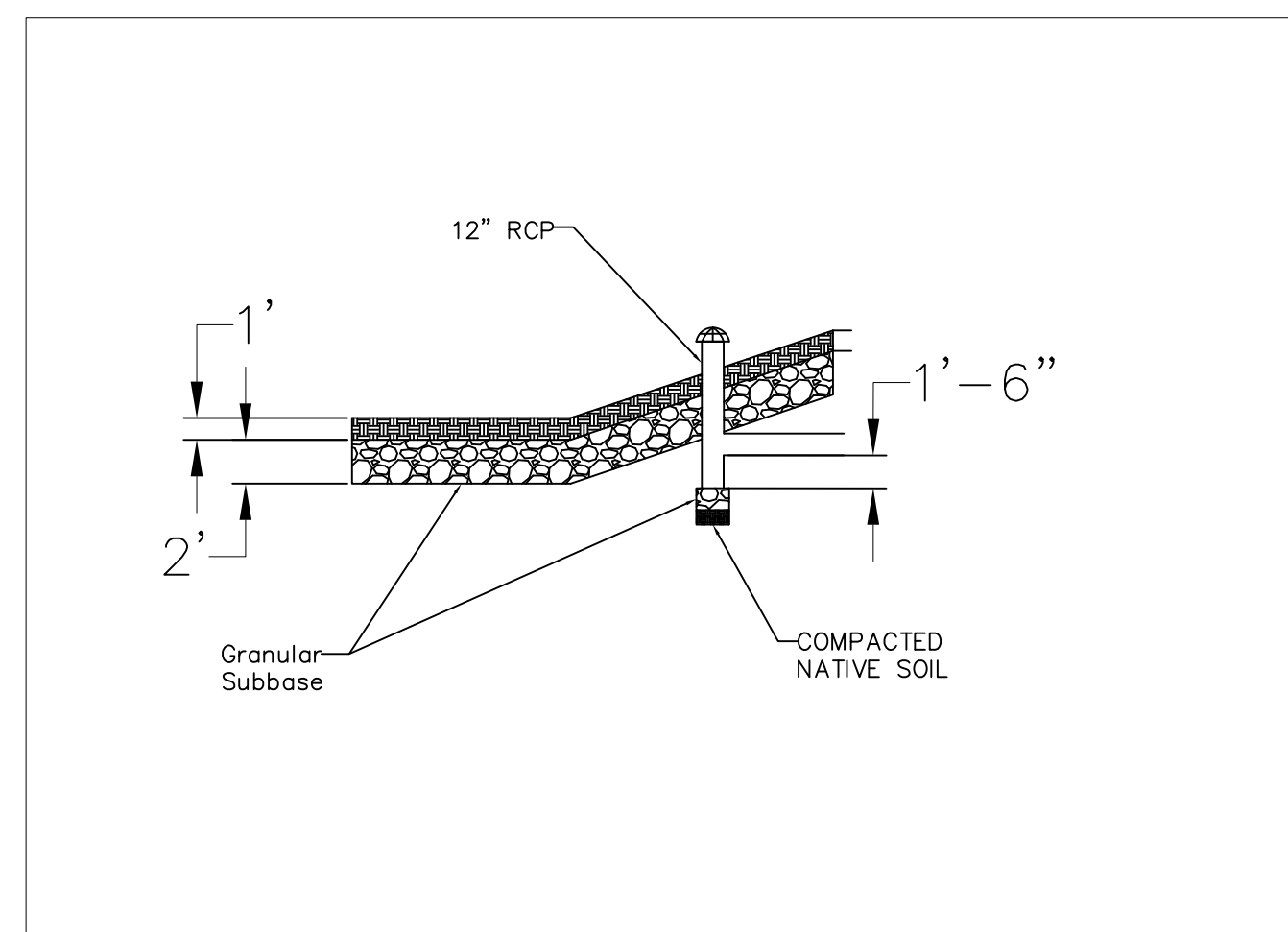
### INFILTRATION BASIN AERIAL



### INFILTRATION BASIN CROSS-SECTION



### OVERFLOW INTAKE DETAILS



### INFILTRATION BASIN NOTES:

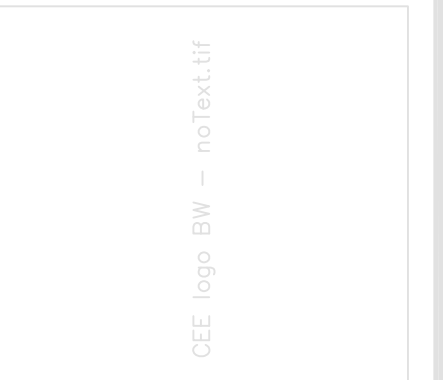
- Designed in accordance with Iowa DNR Stormwater Manual Requirements and Specifications
- Location can be seen on Site Plan Sheet
- 12" RCP to be used for overflow intake storm pipe
- Infiltration Basin to be overlaid in Kentucky Bluegrass sod following construction
- Granular Subbase composition to be determined by Contractor based on local availability, no larger than 3-4 inch granular rock
- Subbase to be compacted and overlaid with 12" of native soil
- Overflow pipe to connect directly to nearby intake box

### INFILTRATION BASIN MAINTENANCE PLAN:

- An operation and maintenance plan should be established before construction of Infiltration Basin
- Routine landscape maintenance is required
  - Maintain grass height between 4-6 inches
- Annual inspection for erosion damage and problems
  - Recommended that basin be inspected following unusually large rainstorm
- Remove trash and other large debris monthly
- If necessary, remove sediment buildup bi-annually
- Overflow function to be checked and inspected annually

PROJECT:	CEE: 4850
DATE :	05/08/2020
DRAWN BY:	IWFD Engineering
REVISION:	

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SHEET NAME  
 Community Center  
 Infiltr. Basin Details

SHEET NO.  
**16**