MO-FLEX FARROWING BUILDING PLAN

PREPARED FOR: MISSOURI PLAN SERVICE

PLAN NUMBER: MO3-726-94C1

DEVELOPED BY:

JOSEPH M. ZULOVICH, Ph.D., P.E.
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COMMERCIAL AGRICULTURE PROGRAM
UNIVERSITY EXTENSION

AGRICULTURAL ENGINEERING DEPARTMENT
UNIVERSITY OF MISSOURI - COLUMBIA

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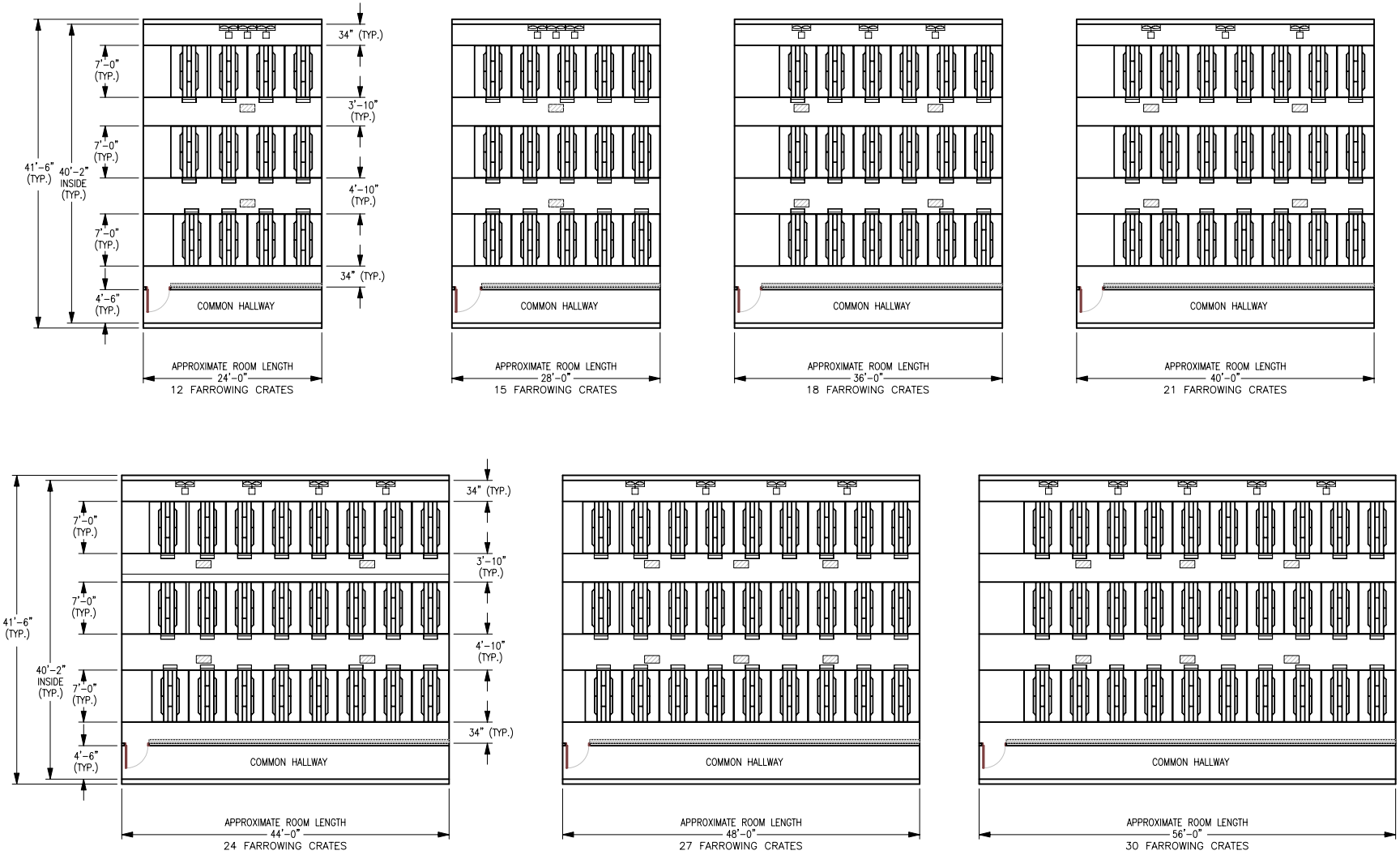
- ASSURANCE OF COMPLIANCE WITH LOCAL CODES AND REGULATIONS;
- DEVELOPMENT AND/OR REVIEW OF SPECIFICATIONS FOR MATERIALS AND EQUIPMENT;
- SELECTION OF PROPER SITE PROVIDING ADEQUATE NATURAL RESOURCE BASE;
- SUPERVISION OF SITE PREPARATION, BID LETTING AND CONSTRUCTION;
- DEVELOPMENT OF A MANURE STORAGE SYSTEM AND MANURE MANAGEMENT PLAN;
- AND PROVISIONS FOR UTILITIES, ROADS AND/OR OTHER ACCESS.

INDEX OF DRAWINGS



FARROWING ROOM FLOOR PLANS

SCALE: 1" = 10'-0"

LEGEND FOR VENTILATION LAYOUT

- EXHAUST FAN LOCATION
- WINTER CEILING INLET LOCATION
- SUMMER INLET LOCATION

NOTES:
1. SEE MANUAL FOR ADDITIONAL DISCUSSION OF VENTILATION SYSTEM REQUIREMENTS AND PERFORMANCE RECOMMENDATIONS.
2. SELECTED MANURE HANDLING OPTION IMPACTS WINTER MINIMUM VENTILATION DESIGN REQUIREMENTS. SEE MANUAL FOR ADDITIONAL DISCUSSION.

FARROWING ROOM FLOOR PLAN OPTIONS

MO-FLEX FARROWING BUILDING PLAN

DESIGNED BY:	DRAWN BY:	CHECKED BY:
JMZ	TDT/CMA	JMZ

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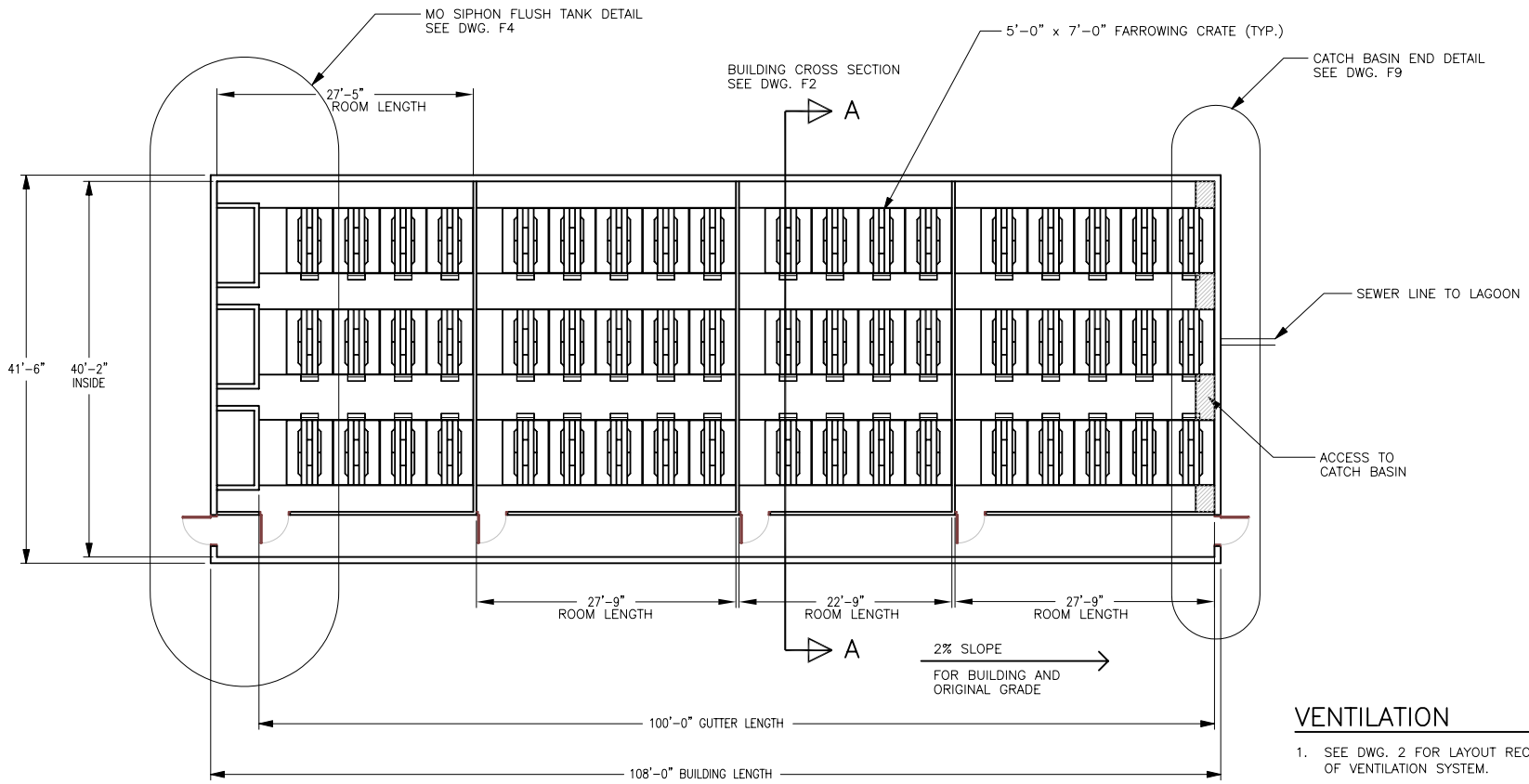
MO-FLEX FARROWING BUILDING
FLUSH SYSTEM USING MO SIPHON TANKS

REVIEW ACCOMPANYING MANUAL FOR DISCUSSION ON MODIFYING BUILDING SIZE AND HOW TO INCLUDE MULTIPLE ROOMS



FLUSH BUILDING FLOOR PLAN

SCALE: 1" = 10'-0"

VENTILATION

1. SEE DWG. 2 FOR LAYOUT RECOMMENDATION OF VENTILATION SYSTEM.
2. SEE MANUAL FOR VENTILATION SYSTEM PERFORMANCE RECOMMENDATIONS USING FLUSH SYSTEM.

LIVESTOCK EQUIPMENT

2 – 12 CRATE FARROWING ROOMS
2 – 15 CRATE FARROWING ROOMS

SITE SELECTION AND PREPARATION INFORMATION

1. SOIL BUILDING PAD SHOULD BE ABOUT 10'-0" TO 20'-0" LONGER AND 10'-0" WIDER THAN BUILDING.
2. SOIL BUILDING PAD SHOULD SLOPE 2% FROM TANK END TO BASIN END FOR GOOD FLUSHING PERFORMANCE.
3. NO SLOPE ACROSS WIDTH OF SOIL BUILDING PAD SHOULD EXIST.
4. BUILDING PROXIMITY TO OTHER SWINE BUILDINGS IMPACTS PIG PERFORMANCE AND SHOULD BE CONSIDERED.

FLOOR PLAN USING FLUSH AND MO SIPHON TANKS

MO-FLEX FARROWING BUILDING PLAN

DESIGNED BY:	DRAWN BY:	CHECKED BY:
JMZ	TDT/CMA	JMZ

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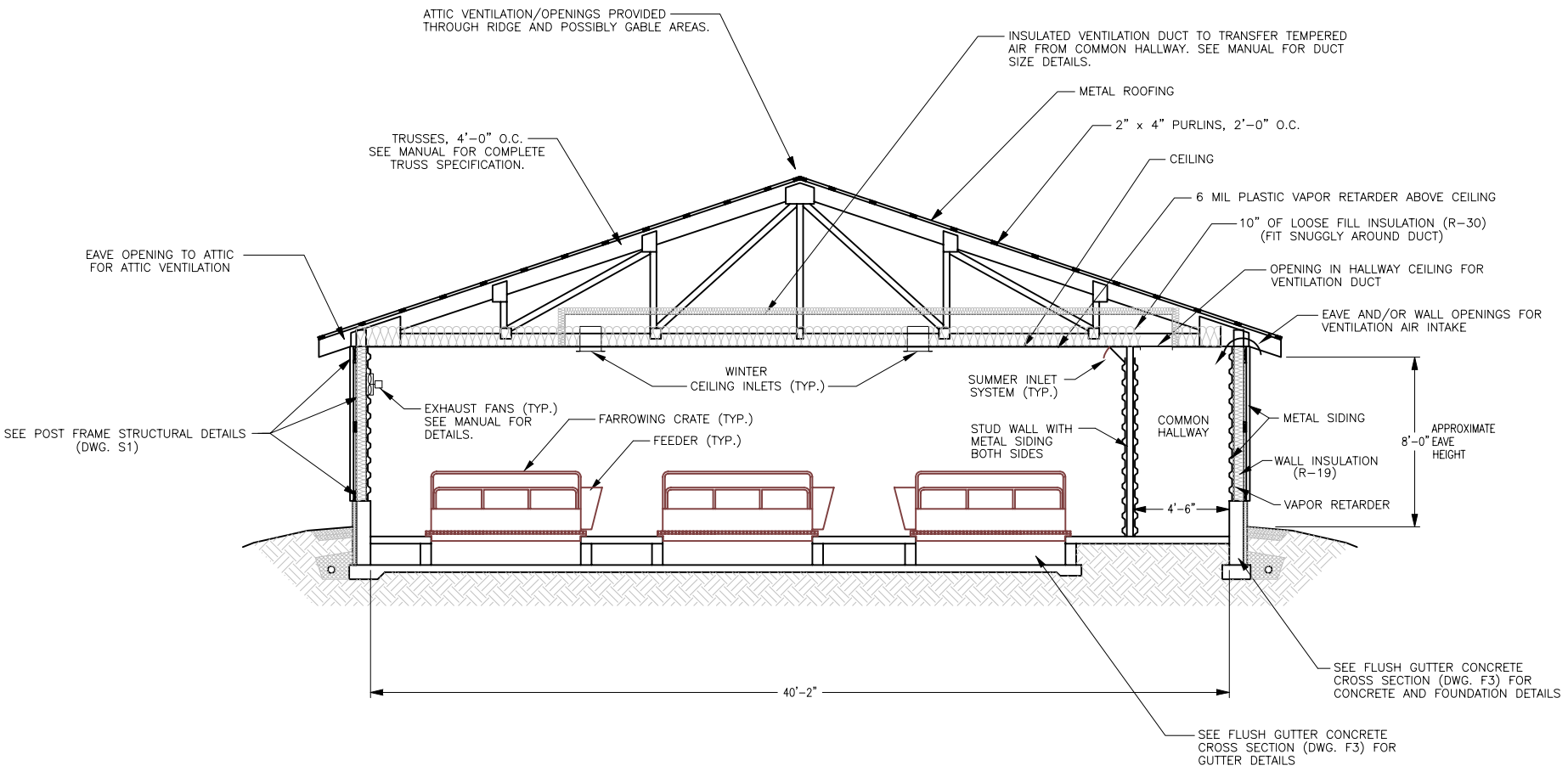
FLUSH BUILDING



FLUSH BUILDING CROSS SECTION

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

FLUSH BUILDING CROSS SECTION			
MO-FLEX FARROWING BUILDING PLAN	DESIGNED BY: JMZ	DRAWN BY: TDT/CMA	CHECKED BY: JMZ
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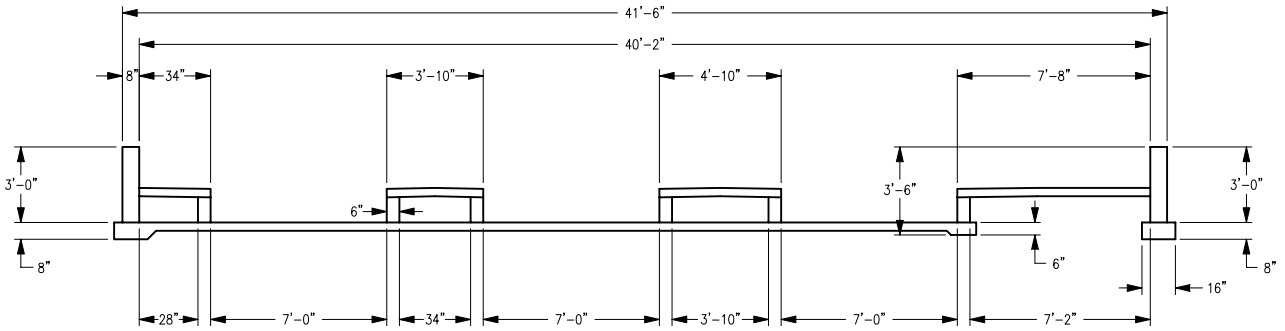
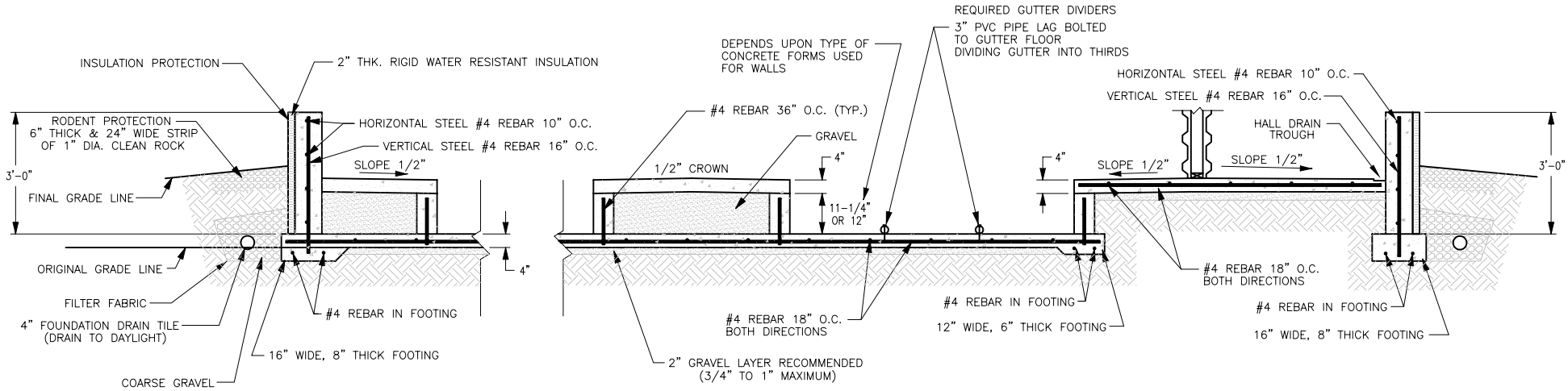
	SCALE: 1/4"=1'-0"		SHEET: F2 : 4 OF 20



FLUSH GUTTER CONCRETE CROSS SECTION

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



SIDEWALL, GUTTER & GUTTER WALL DETAILS

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

NOTE: 3-1/2" WIDE HALL DRAIN TROUGH SLOPES TO 2" DRAIN PIPES WHICH TRANSFER WATER FROM HALLWAY TO FLUSH GUTTER. DRAIN PIPES HAVE P-TRAPS AND ARE SPACED NO MORE THAN 20' APART.

FLUSH GUTTER CONCRETE CROSS SECTION

MO-FLEX FARROWING BUILDING PLAN

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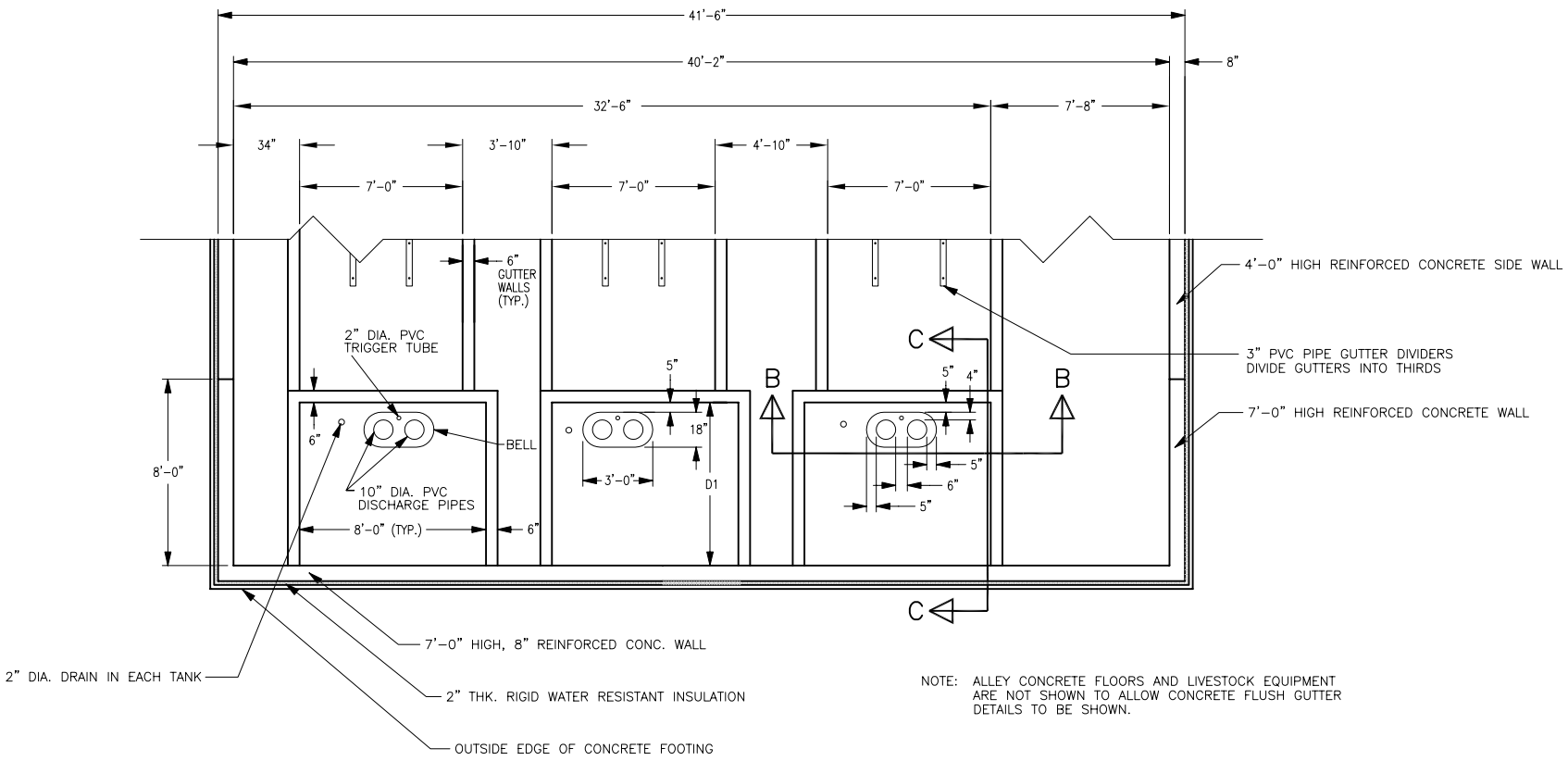

NOTE: ALLEY CONCRETE FLOORS AND LIVESTOCK EQUIPMENT ARE NOT SHOWN TO ALLOW CONCRETE FLUSH GUTTER DETAILS TO BE SHOWN.

MO SIPHON FLUSH TANK DETAIL

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

GUTTER LENGTH	TANK LENGTH D1	DIST. FROM FOOTER TO SUMP D2
UP TO 160'	4'-0"	14"
160'-200'	5'-0"	26"
201'-240'	6'-0"	38"
241'-280'	7'-0"	50"

MO SIPHON FLUSH TANK DETAIL

MO-FLEX FARROWING BUILDING PLAN

DESIGNED BY: JMZ | DRAWN BY: JMZ | CHECKED BY: JMZ

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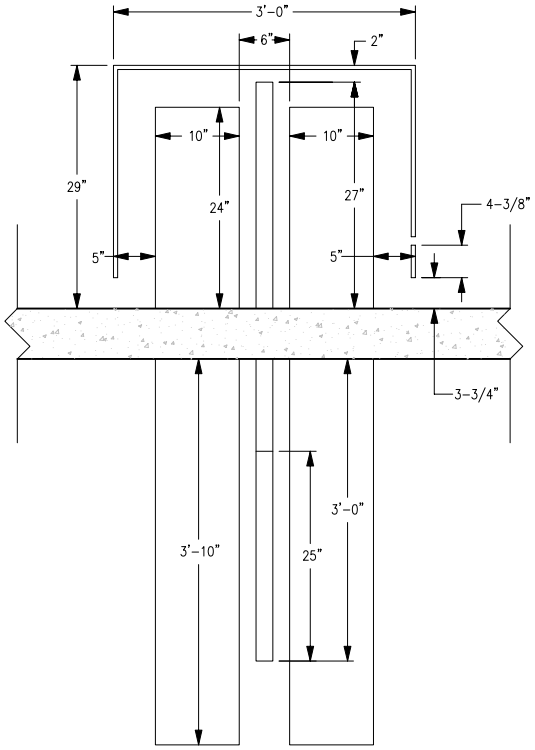
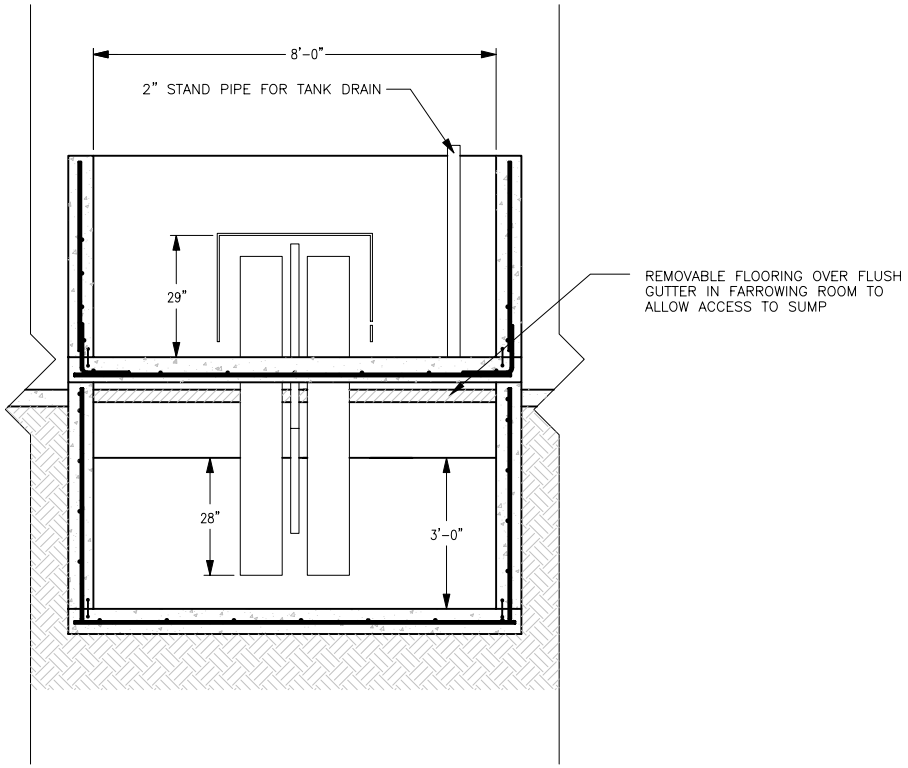


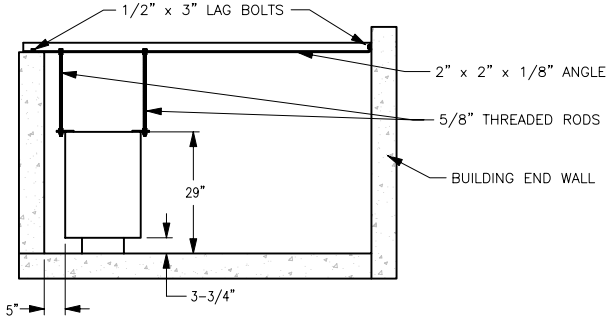
PIPING DIMENSIONS

SCALE: 1" = 1'-0"



SIPHON FLUSH TANK SECTION (SIPHON DETAILS)

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



BELL SECURING DETAIL

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

TANK AND SUMP LONGITUDINAL SECTION (PART 1)

MO-FLEX FARROWING BUILDING PLAN

DESIGNED BY: JMZ | DRAWN BY: JMZ/DDW | CHECKED BY: JMZ

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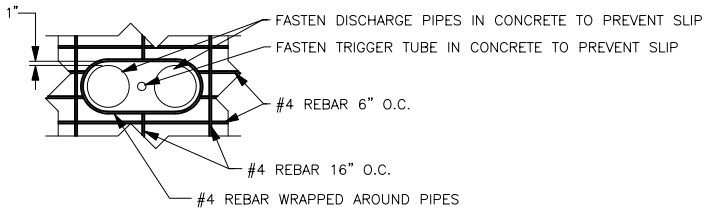
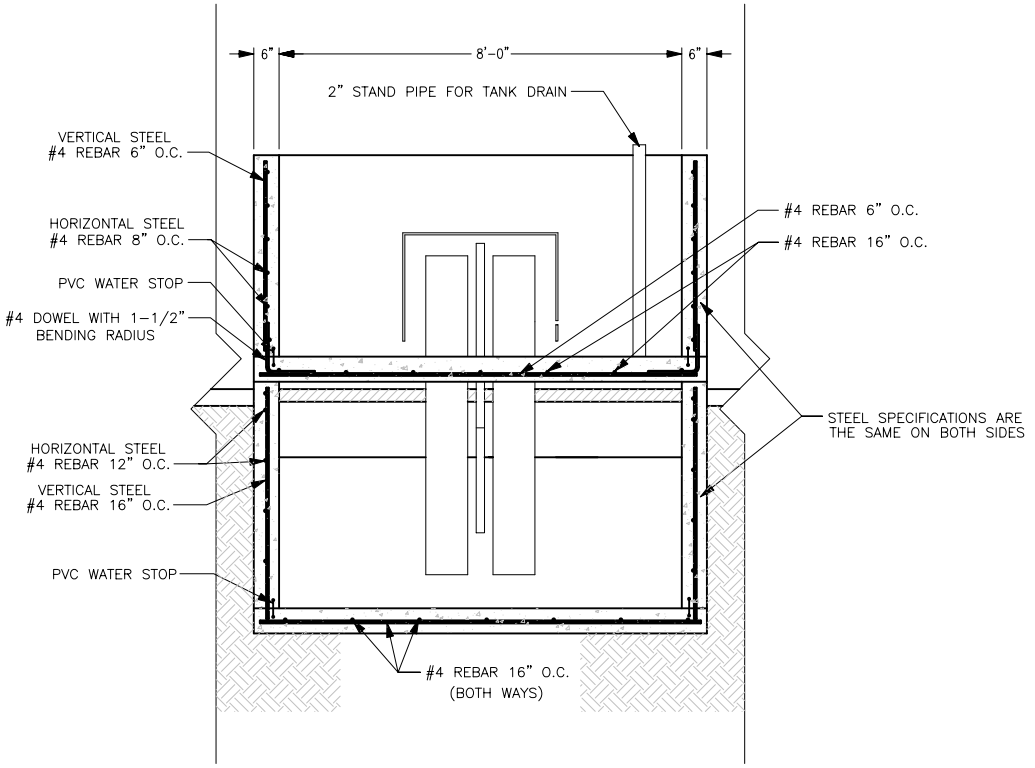


NOTE: ALL STEEL SHOULD BE TIED TOGETHER AT JOINTS.

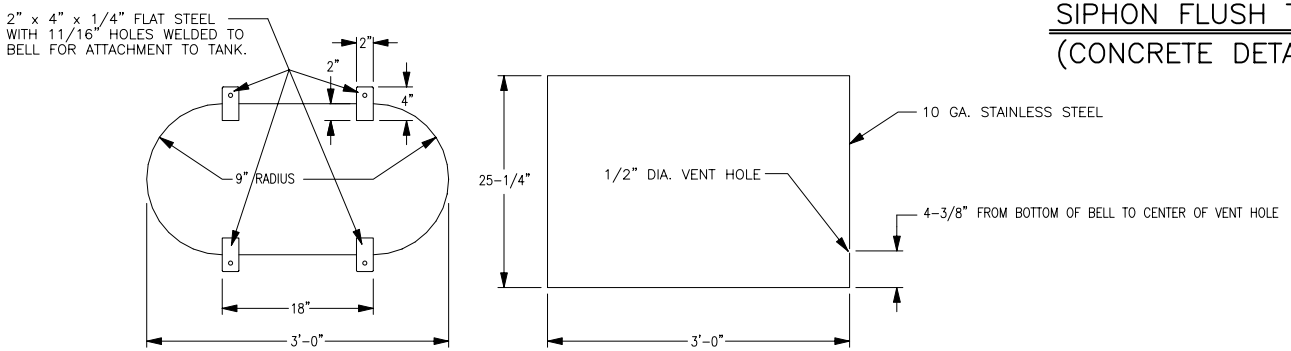
STEEL DETAILS AROUND PIPING

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



SIPHON FLUSH TANK SECTION (CONCRETE DETAILS)

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



TANK BELL CONSTRUCTION DETAILS

SCALE: 1" = 1'-0"

TANK AND SUMP LONGITUDINAL SECTION (PART 2)

MO-FLEX FARROWING BUILDING PLAN

DESIGNED BY:	DRAWN BY:	CHECKED BY:
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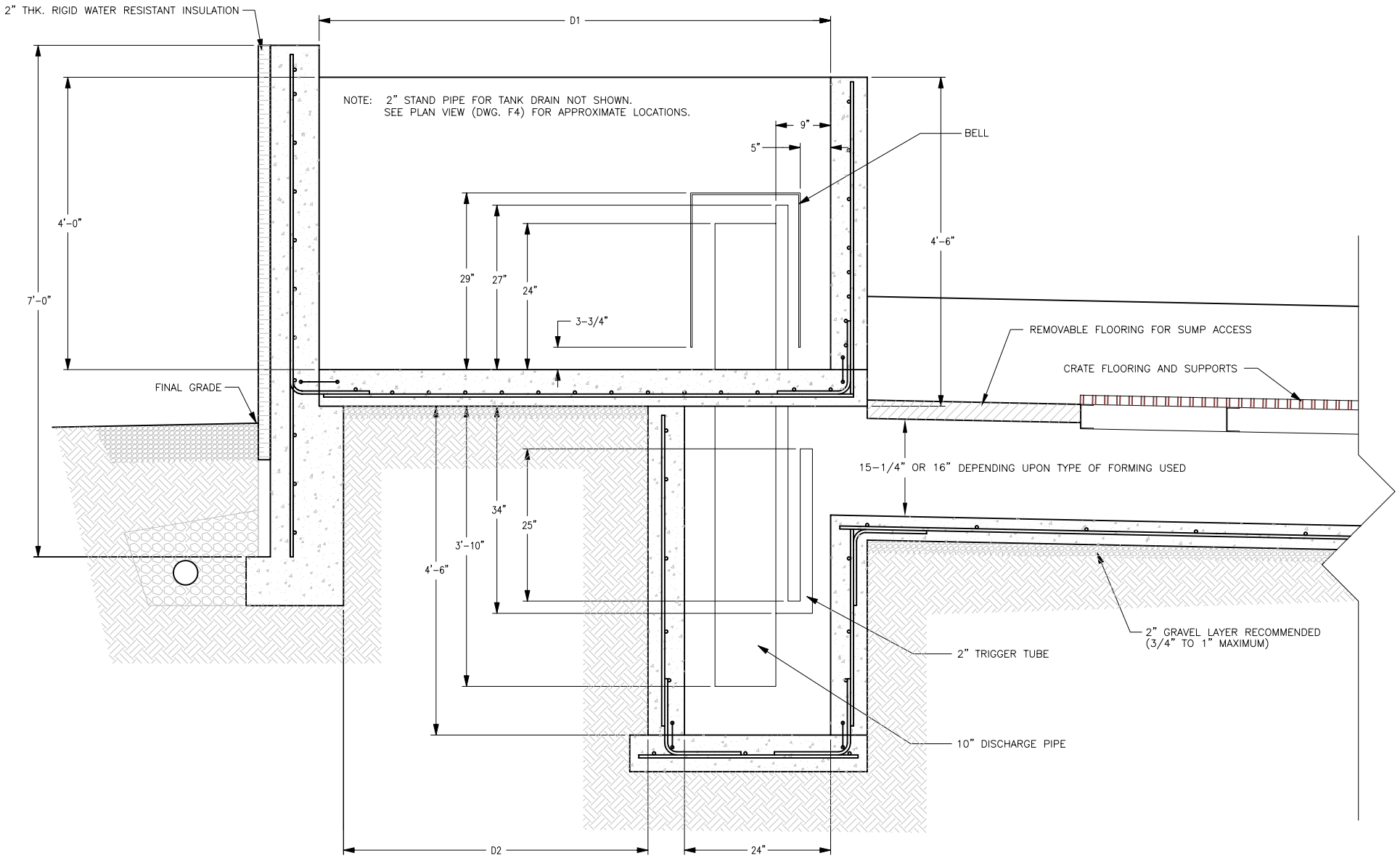

C C MO SIPHON FLUSH TANK SECTION (SIPHON DETAILS)

SCALE: 1" = 1'-0"

GUTTER LENGTH	TANK LENGTH D1	DIST. FROM FOOTER TO SUMP D2
UP TO 160'	4'-0"	14"
161'-200'	5'-0"	26"
201'-240'	6'-0"	38"
241'-280'	7'-0"	50"

NOTE:
GUTTER LENGTH IS THE DISTANCE FROM THE FRONT OF THE TANK TO THE FAR END WALL.

TANK AND SUMP CROSS SECTION (PART 1)

MO-FLEX FARROWING BUILDING PLAN

DESIGNED BY: JMZ | DRAWN BY: JMZ/DDW | CHECKED BY: JMZ

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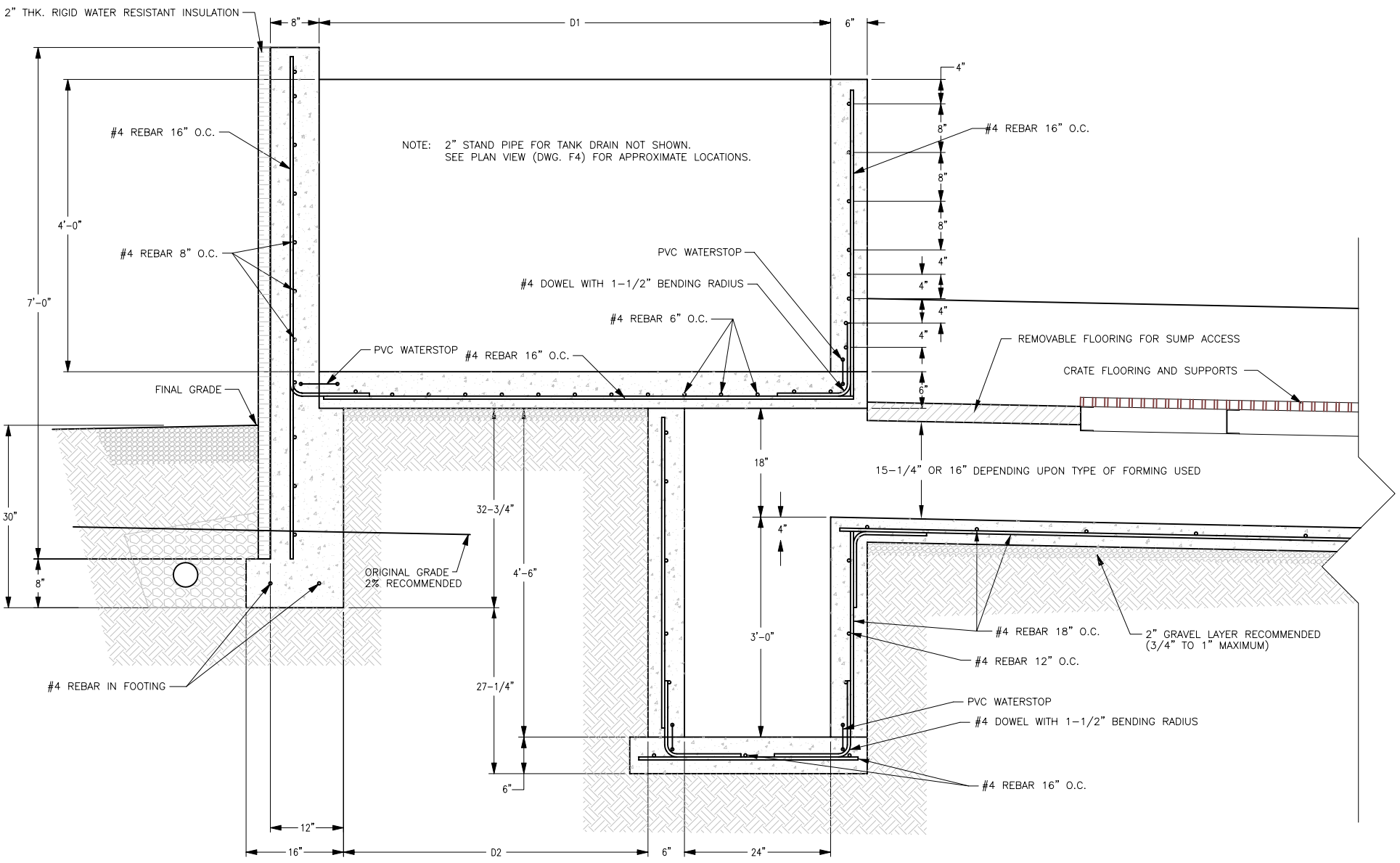
SCALE: 1"=1'-0" | SHEET: F7 : 9 OF 20



C C MO SIPHON FLUSH TANK SECTION (CONCRETE DETAILS)

SCALE: 1" = 1'-0"

GUTTER LENGTH	TANK LENGTH D1	DIST. FROM FOOTER TO SUMP D2
UP TO 160'	4'-0"	14"
161'-200'	5'-0"	26"
201'-240'	6'-0"	38"
241'-280'	7'-0"	50"

NOTE:
GUTTER LENGTH IS THE DISTANCE FROM THE FRONT OF THE TANK TO THE FAR END WALL.

TANK AND SUMP CROSS SECTION (PART 2)

MO-FLEX FARROWING BUILDING PLAN

DESIGNED BY: JMZ | DRAWN BY: JMZ/DDW | CHECKED BY: JMZ

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SCALE: 1"=1'-0" | SHEET: F8 : 10 OF 20

GENERAL NOTES

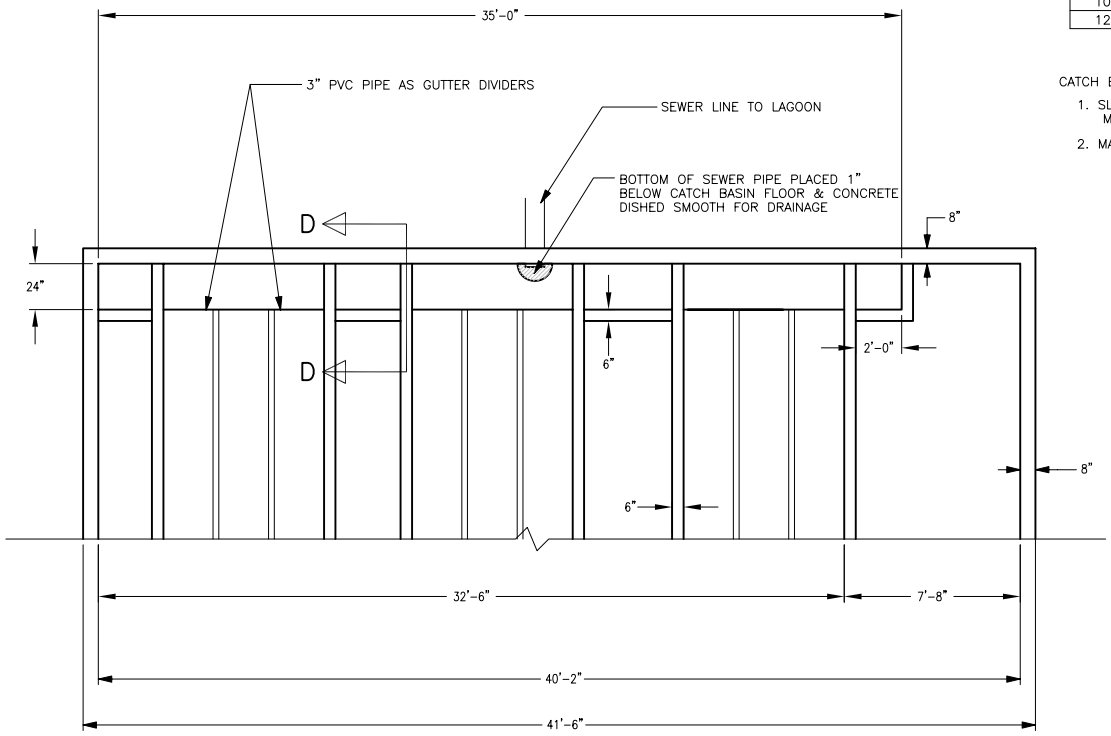
SEWER INFORMATION:

1. SEWER LINE SLOPE – 2% .
2. SEWER LINE CAN BE LOCATED ANYWHERE IN CATCH BASIN TO SIMPLIFY RETURN TO LAGOON.

SEWER LINE	GUTTER LENGTH
8"	UP TO 200'
10"	201' TO 240'
12"	241' TO 280'

CATCH BASIN:

1. SLOPE BASIN FLOOR TO SEWER LINE A MINIMUM OF 1/8"/FT.
2. MAXIMUM BASIN DEPTH IS 24".



NOTE: ALLEY CONCRETE FLOORS AND LIVESTOCK EQUIPMENT ARE NOT SHOWN TO ALLOW FLUSH GUTTER CONCRETE DETAILS TO BE SHOWN.

CATCH BASIN DETAIL

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

CATCH BASIN END DETAIL

MO-FLEX FARROWING BUILDING PLAN

DESIGNED BY: JMZ | DRAWN BY: JMZ | CHECKED BY: JMZ

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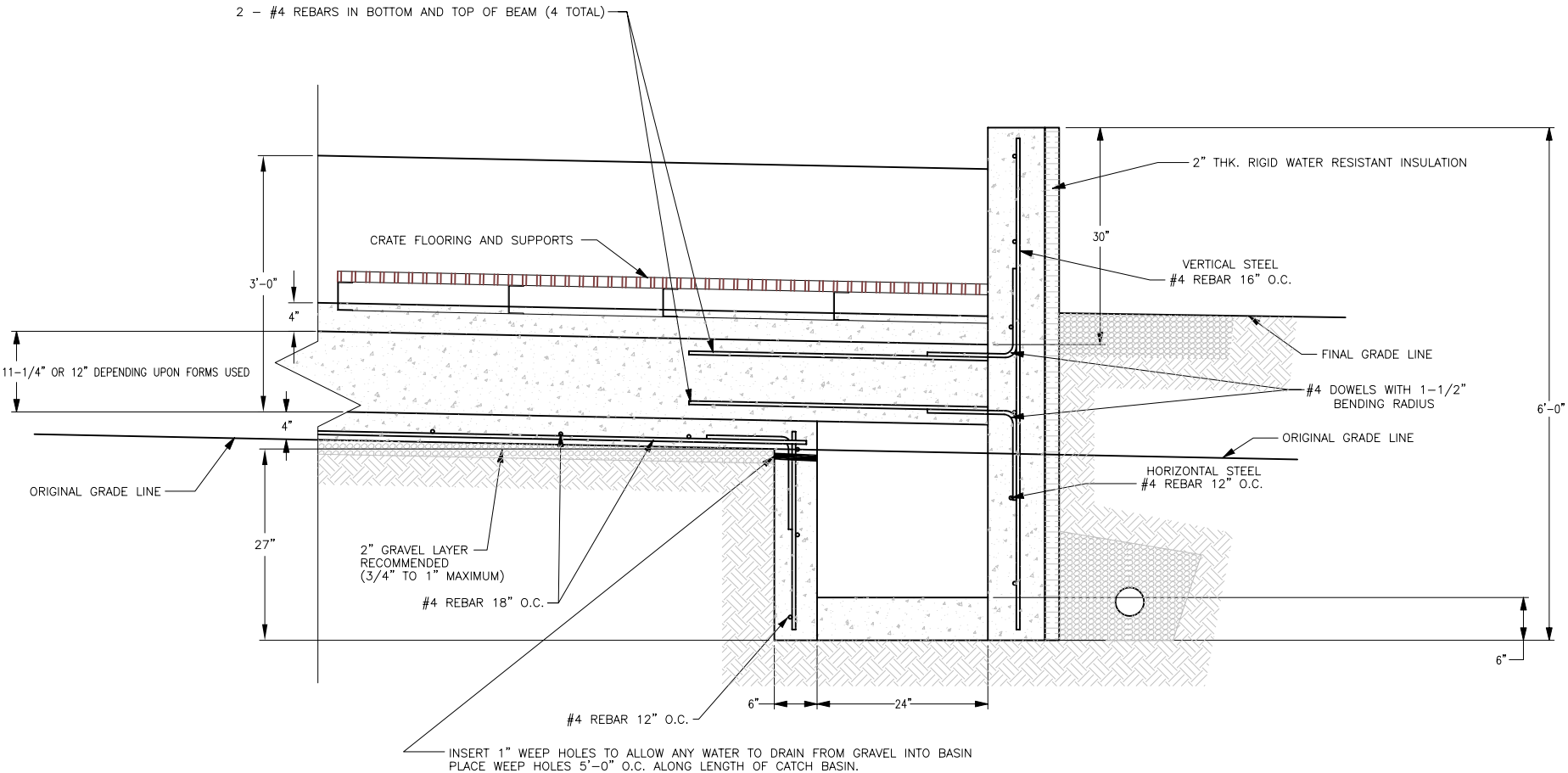

D
D CATCH BASIN CROSS SECTION

SCALE: 1" = 1'–0"

CATCH BASIN CROSS SECTION

MO-FLEX FARROWING BUILDING PLAN

DESIGNED BY:	DRAWN BY:	CHECKED BY:
JMZ	JMZ	JMZ

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PLAN NO.:	DATE:
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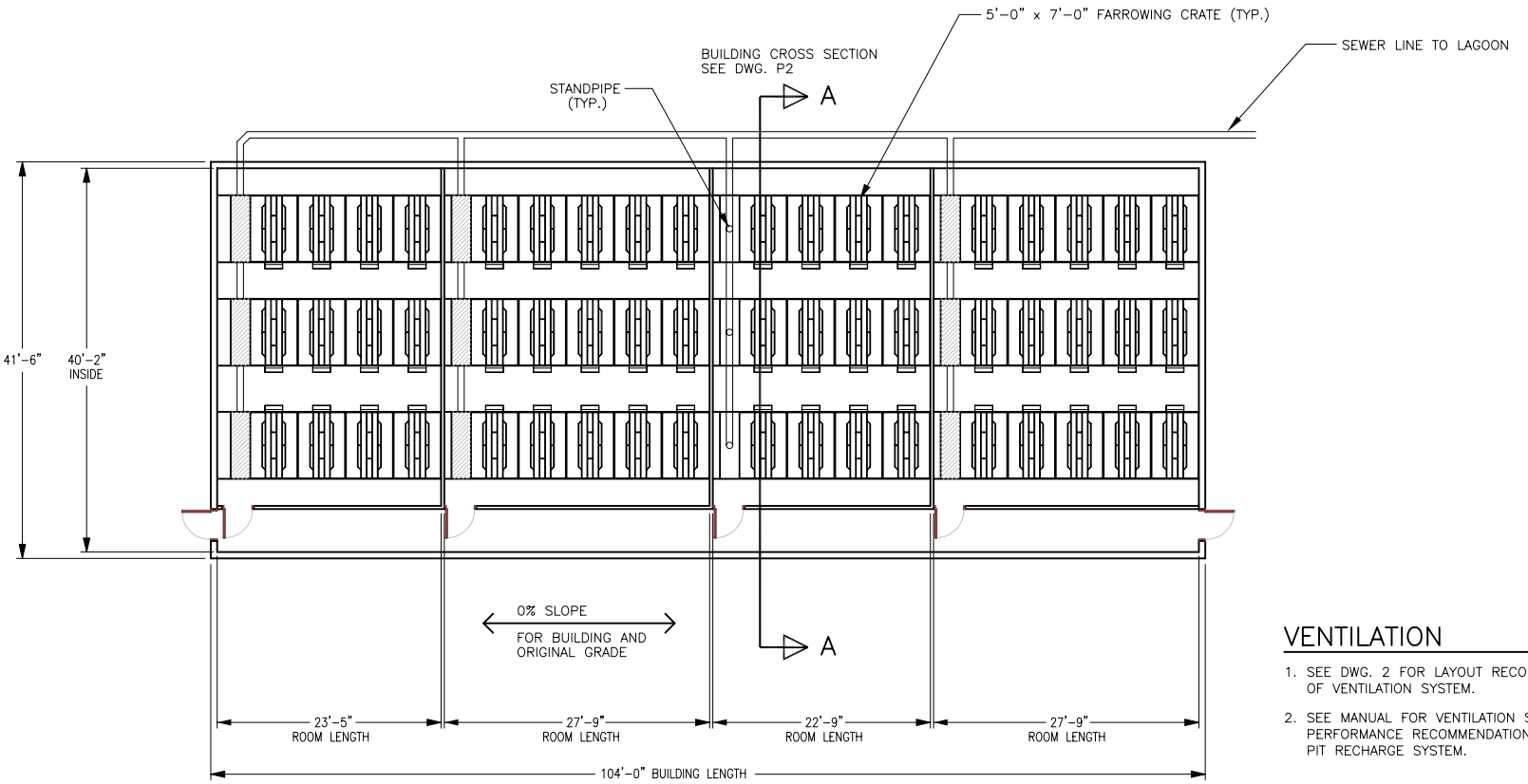
MO-FLEX FARROWING BUILDING
PIT RECHARGE MANURE SYSTEM

REVIEW ACCOMPANYING MANUAL FOR DISCUSSION ON MODIFYING BUILDING SIZE AND HOW TO INCLUDE MULTIPLE ROOMS



PIT RECHARGE BUILDING FLOOR PLAN

SCALE: 1" = 10'-0"

VENTILATION

1. SEE DWG. 2 FOR LAYOUT RECOMMENDATION OF VENTILATION SYSTEM.
2. SEE MANUAL FOR VENTILATION SYSTEM PERFORMANCE RECOMMENDATIONS USING PIT RECHARGE SYSTEM.

LIVESTOCK EQUIPMENT

2 – 12 CRATE FARROWING ROOMS
2 – 15 CRATE FARROWING ROOMS

SITE SELECTION AND PREPARATION INFORMATION

1. SOIL BUILDING PAD SHOULD BE ABOUT 10'-0" TO 20'-0" LONGER AND 10'-0" WIDER THAN BUILDING.
2. NO SLOPE ACROSS WIDTH OR LENGTH OF SOIL BUILDING PAD SHOULD EXIST.
3. BUILDING PROXIMITY TO OTHER SWINE BUILDINGS IMPACTS PIG PERFORMANCE AND SHOULD BE CONSIDERED.

FLOOR PLAN USING PIT RECHARGE MANURE SYSTEM			
MO-FLEX FARROWING BUILDING PLAN	DESIGNED BY: JMZ	DRAWN BY: TDT/CMA	CHECKED BY: JMZ
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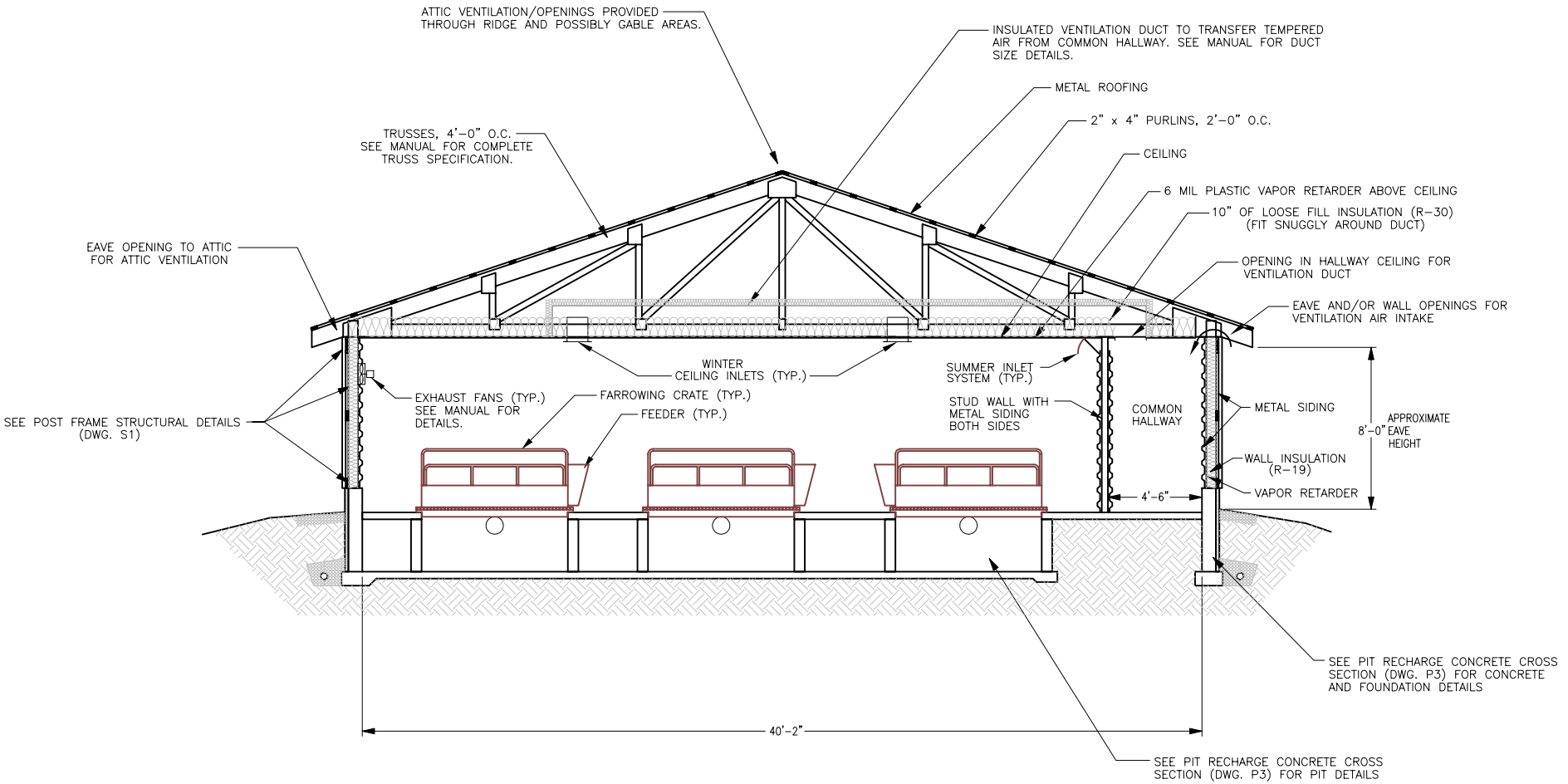
	SCALE: 1"=10'-0"		SHEET P1 : 13 OF 20

PIT RECHARGE BUILDING



PIT RECHARGE BUILDING CROSS SECTION

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

PIT RECHARGE BUILDING CROSS SECTION			
MO-FLEX FARROWING BUILDING PLAN	DESIGNED BY: JMZ	DRAWN BY: TDT/CMA	CHECKED BY: JMZ
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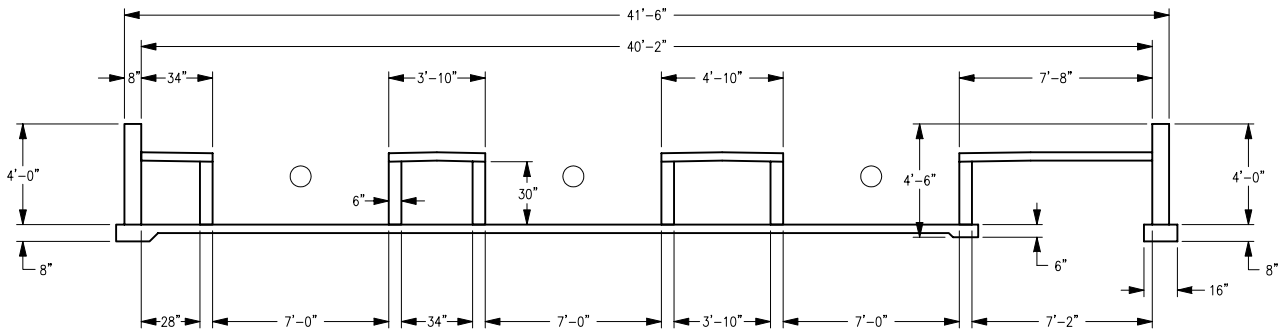
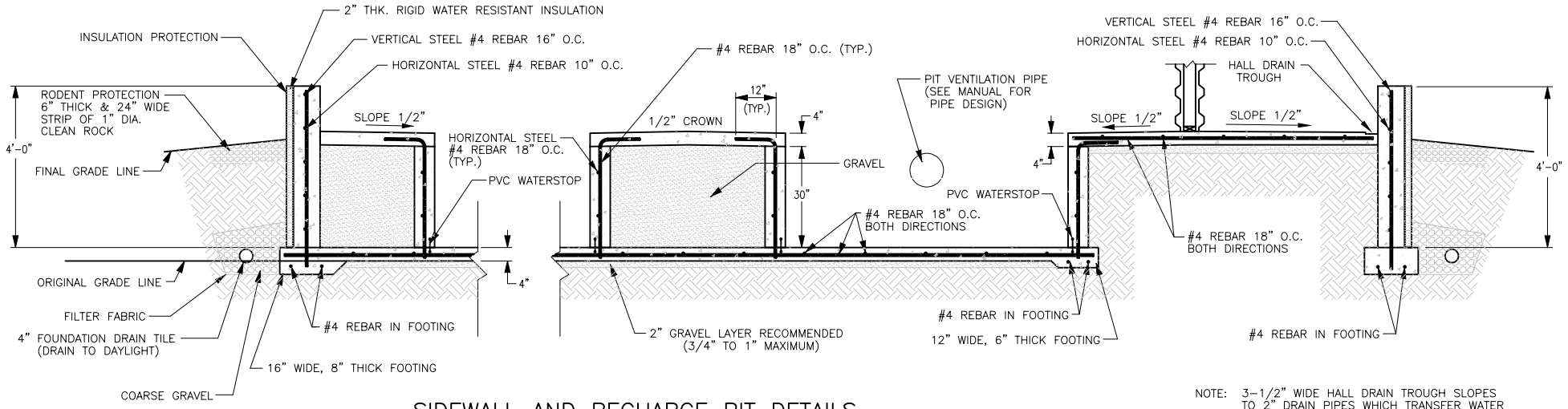
	SCALE: 1/4"=1'-0"		SHEET P2 : 14 OF 20



PIT RECHARGE CONCRETE CROSS SECTION

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



SIDEWALL AND RECHARGE PIT DETAILS

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

NOTE: 3-1/2" WIDE HALL DRAIN TROUGH SLOPES TO 2" DRAIN PIPES WHICH TRANSFER WATER FROM HALLWAY TO RECHARGE PIT. DRAIN PIPES HAVE P-TRAPS AND ARE SPACED NO MORE THAN 20' APART.

PIT RECHARGE CONCRETE CROSS SECTION			
MO-FLEX FARROWING BUILDING PLAN	DESIGNED BY: JMZ	DRAWN BY: TDT/CMA	CHECKED BY: JMZ
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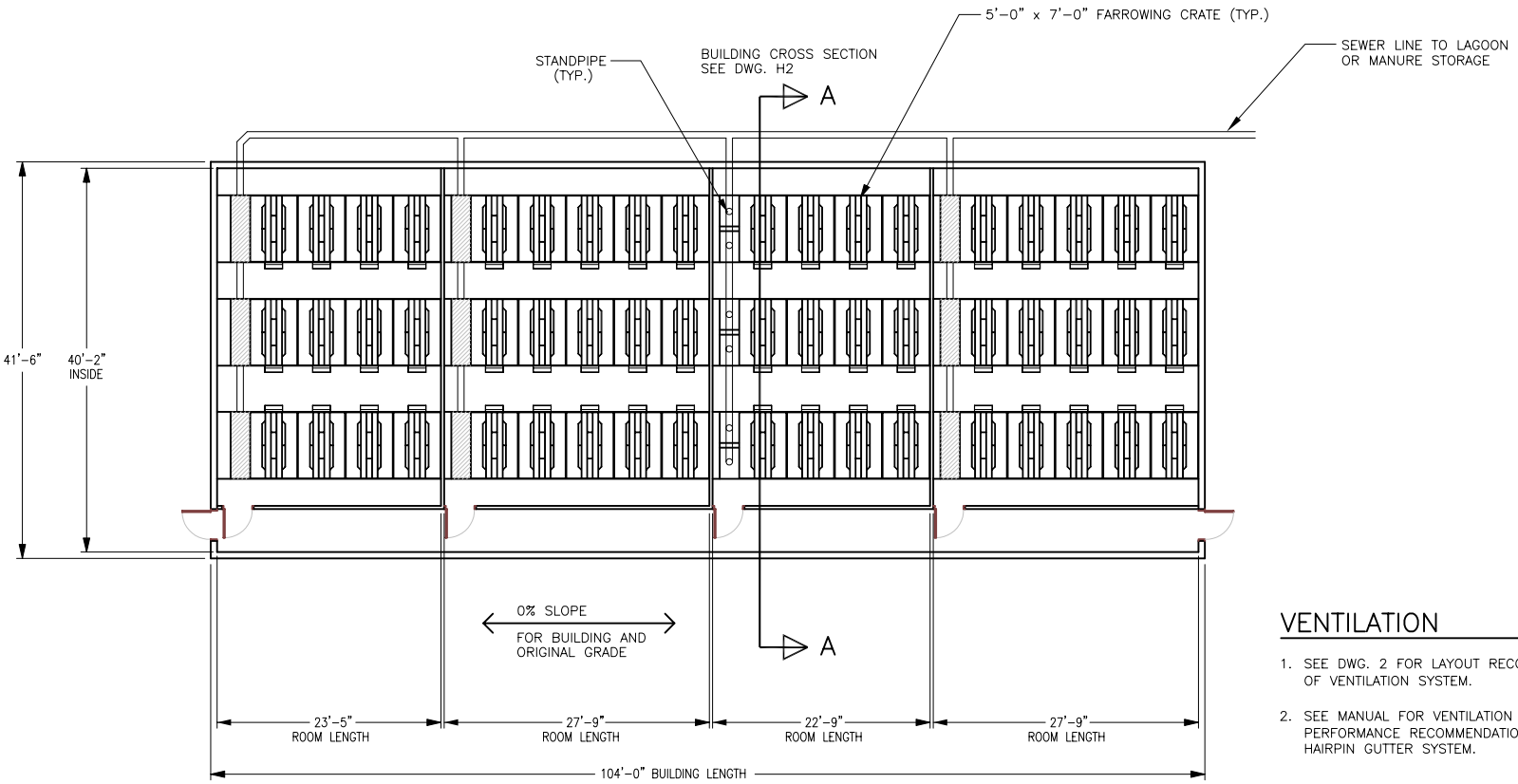
MO-FLEX FARROWING BUILDING
HAIRPIN GUTTER MANURE SYSTEM

REVIEW ACCOMPANYING MANUAL FOR DISCUSSION ON MODIFYING BUILDING SIZE AND HOW TO INCLUDE MULTIPLE ROOMS



HAIRPIN GUTTER BUILDING FLOOR PLAN

SCALE: 1" = 10'-0"

VENTILATION

1. SEE DWG. 2 FOR LAYOUT RECOMMENDATION OF VENTILATION SYSTEM.
2. SEE MANUAL FOR VENTILATION SYSTEM PERFORMANCE RECOMMENDATIONS USING HAIRPIN GUTTER SYSTEM.

LIVESTOCK EQUIPMENT

2 – 12 CRATE FARROWING ROOMS
2 – 15 CRATE FARROWING ROOMS

SITE SELECTION AND PREPARATION INFORMATION

1. SOIL BUILDING PAD SHOULD BE ABOUT 10'-0" TO 20'-0" LONGER AND 10'-0" WIDER THAN BUILDING.
2. NO SLOPE ACROSS WIDTH OR LENGTH OF SOIL BUILDING PAD SHOULD EXIST.
3. BUILDING PROXIMITY TO OTHER SWINE BUILDINGS IMPACTS PIG PERFORMANCE AND SHOULD BE CONSIDERED.

FLOOR PLAN USING HAIRPIN GUTTER LIQUID MANURE SYSTEM			
MO-FLEX FARROWING BUILDING PLAN	DESIGNED BY: JMZ	DRAWN BY: TDT/CMA	CHECKED BY: JMZ
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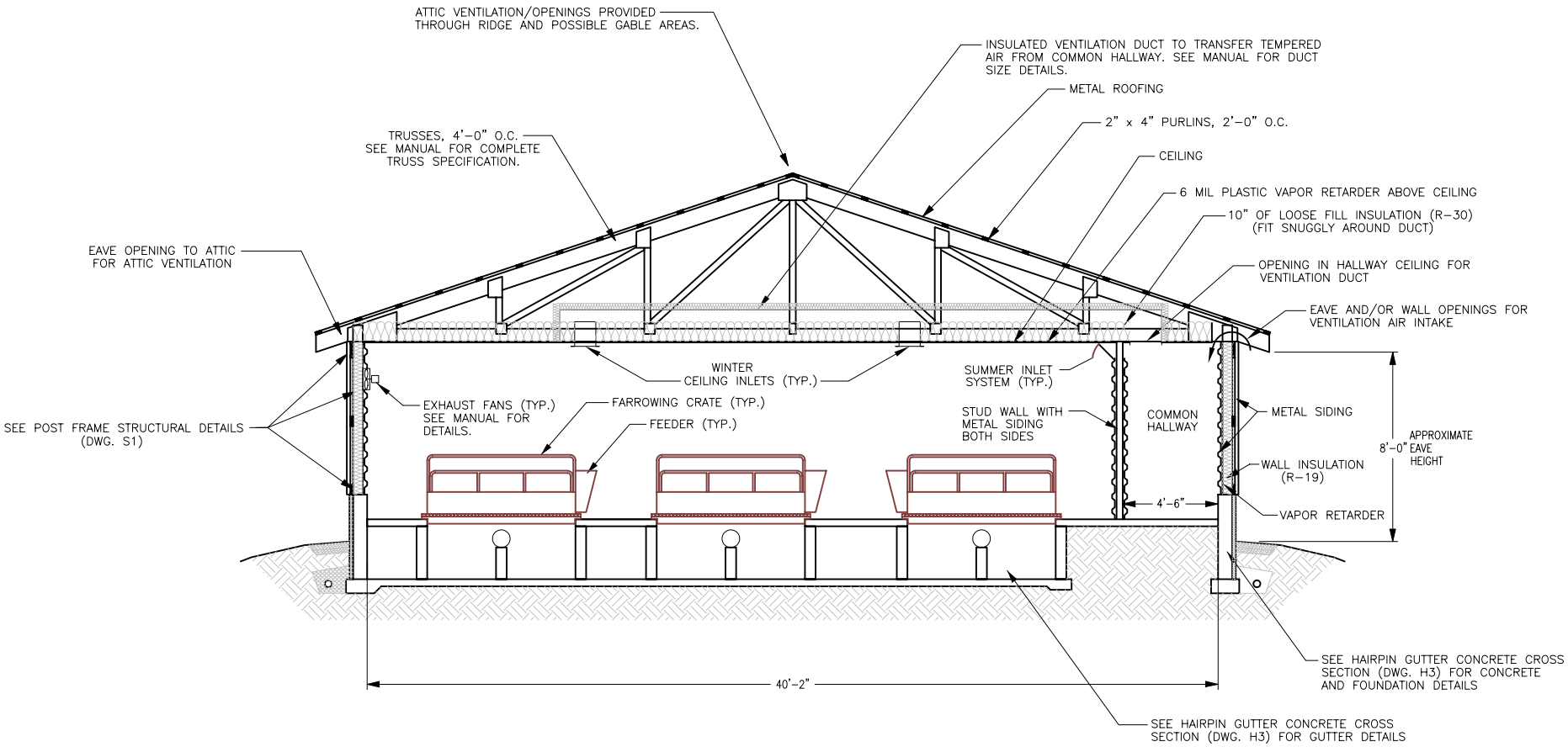
	SCALE: 1"=10'-0"		SHEET: H1 : 16 OF 20

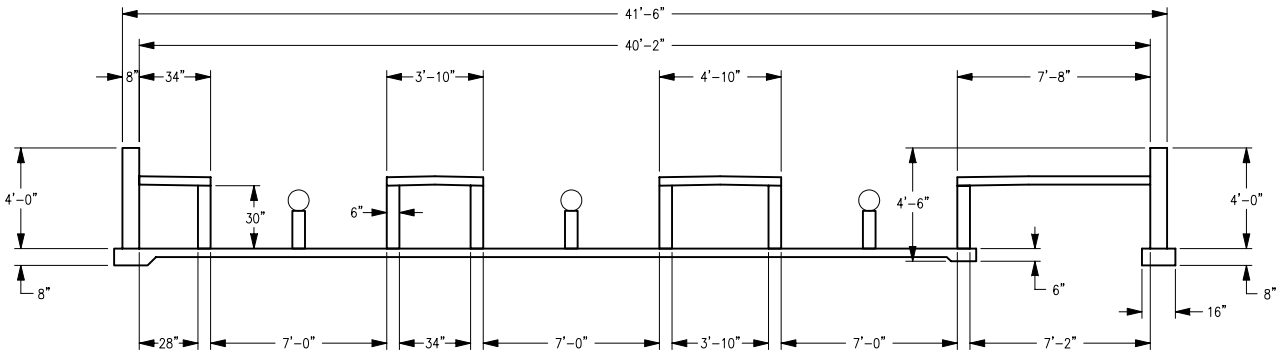
HAIRPIN GUTTER BUILDING



HAIRPIN GUTTER BUILDING CROSS SECTION

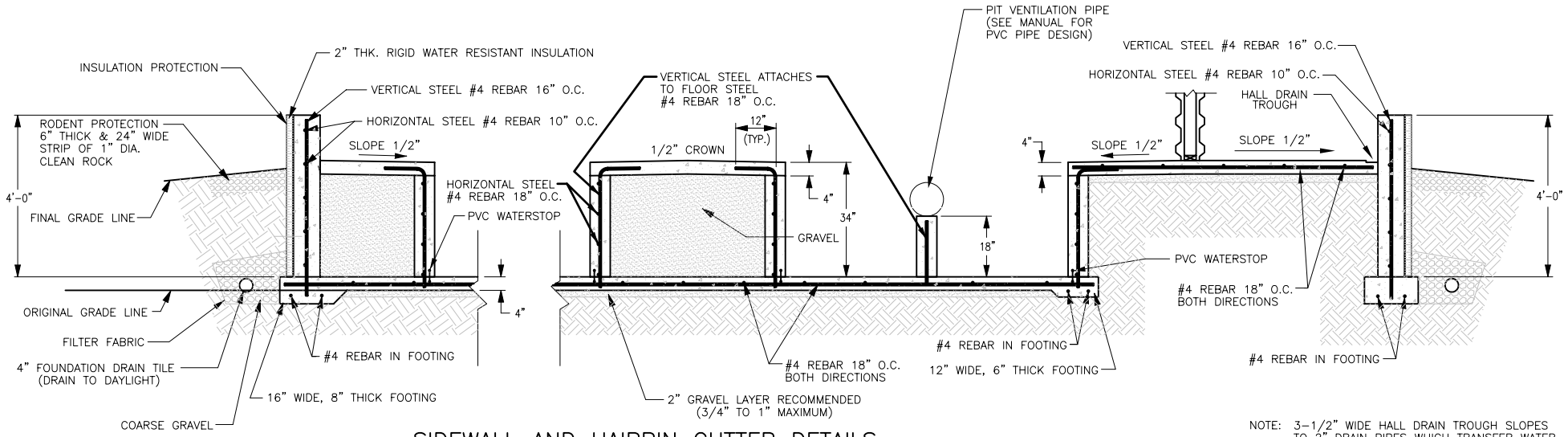
SCALE: 1/4" = 1'-0"

HAIRPIN GUTTER BUILDING CROSS SECTION			
MO-FLEX FARROWING BUILDING PLAN	DESIGNED BY: JMZ	DRAWN BY: TDT/CMA	CHECKED BY: JMZ
COOPERATIVE EXTENSION SERVICE AGRICULTURAL ENGINEERING DEPARTMENT-UNIVERSITY OF MISSOURI-COLUMBIA UNIVERSITY EXTENSION - COMMERCIAL AGRICULTURE PROGRAM UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING	PLAN NO.: MO3-726-94C1		DATE: 9/94
	SCALE: 1/4"=1'-0"		SHEET: H2 : 17 OF 20



HAIRPIN GUTTER CONCRETE CROSS SECTION

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



SIDEWALL AND HAIRPIN GUTTER DETAILS

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

NOTE: 3-1/2" WIDE HALL DRAIN TROUGH SLOPES TO 2" DRAIN PIPES WHICH TRANSFER WATER FROM HALLWAY TO HAIRPIN GUTTER. DRAIN PIPES HAVE P-TRAPS AND ARE SPACED NO MORE THAN 20' APART.

HAIRPIN GUTTER CONCRETE CROSS SECTION

MO-FLEX FARROWING BUILDING PLAN

DESIGNED BY: JMZ | DRAWN BY: TDT/CMA | CHECKED BY: JMZ

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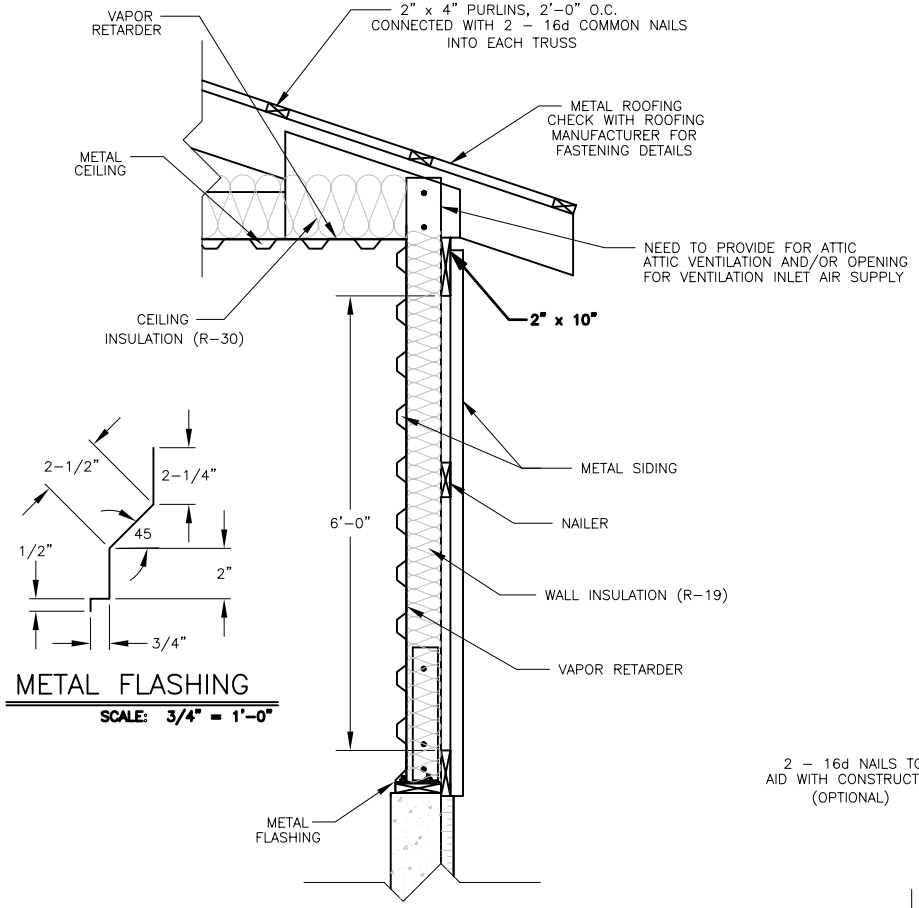
PLAN NO.: M03-726-94C1 | DATE: 9/94

SCALE: AS SHOWN | SHEET: H3 : 18 OF 20

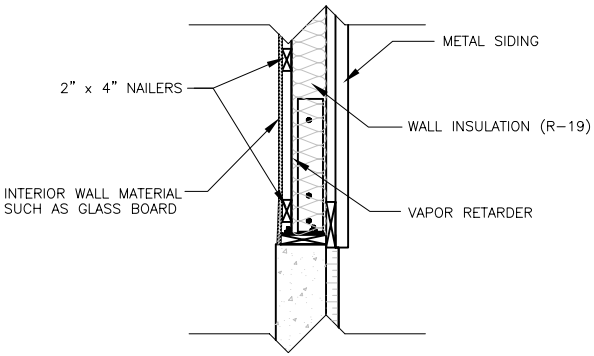


METAL FLASHING

SCALE: 3/4" = 1'-0"

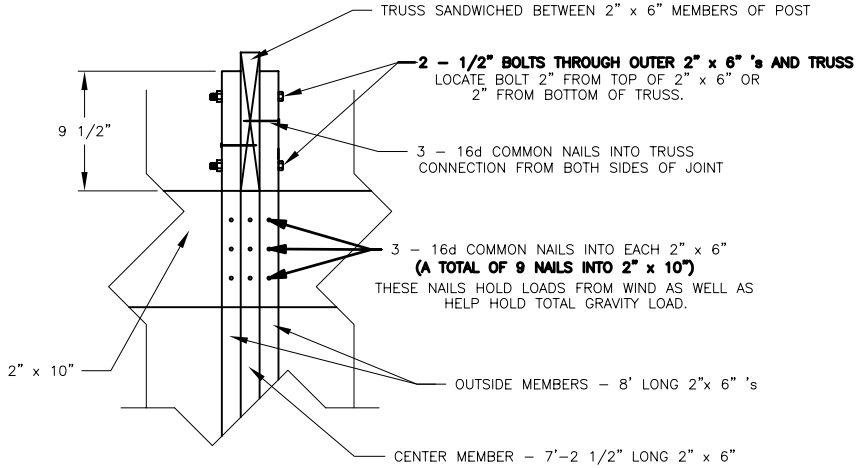
POST FRAME WALL SECTION

SCALE: 3/4" = 1'-0"



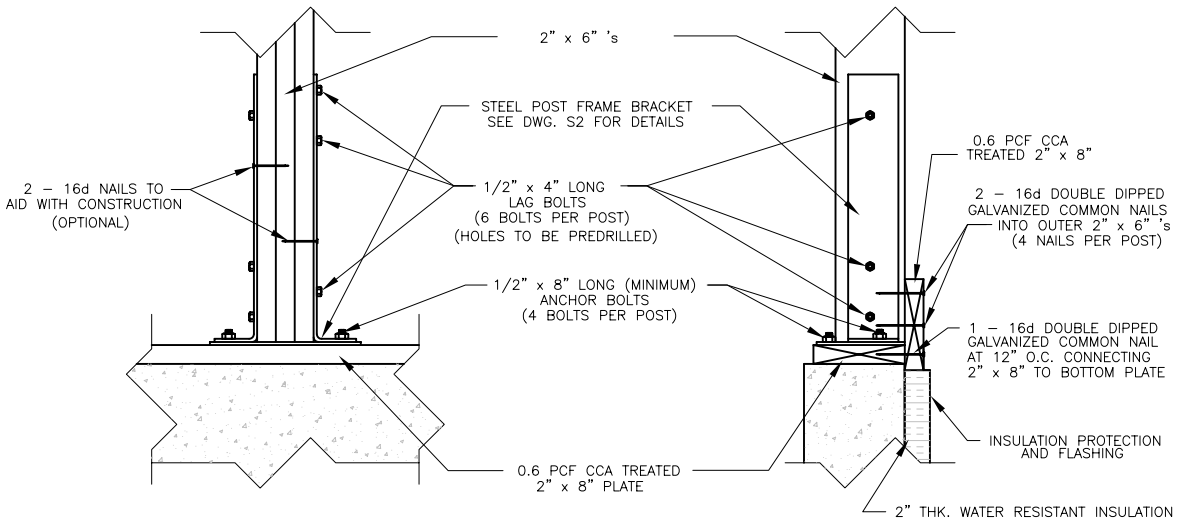
ALTERNATE POST FRAME WALL CONSTRUCTION

SCALE: 3/4" = 1'-0"



TRUSS CONNECTION DETAIL

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



POST BASE CONNECTION DETAILS

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

NOTE: LUMBER QUALITY FOR ALL STRUCTURAL MEMBERS (2" x 6" POST MEMBERS, BOTTOM PLATE, 2" x 8" BOTTOM GIRT, AND 2" x 10" TOP GIRT) IS TO BE NUMBER 2 SOUTHERN PINE OR BETTER.

POST FRAME STRUCTURAL DETAILS

MO-FLEX FARROWING BUILDING PLAN

DESIGNED BY:	DRAWN BY:	CHECKED BY:
JMZ	JMZ	JMZ

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PLAN NO.:	DATE:
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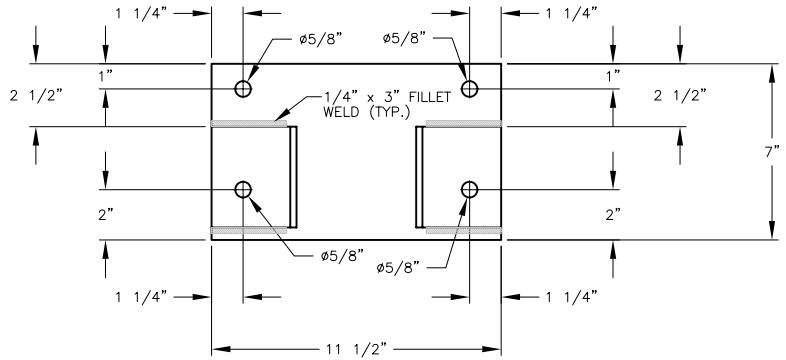
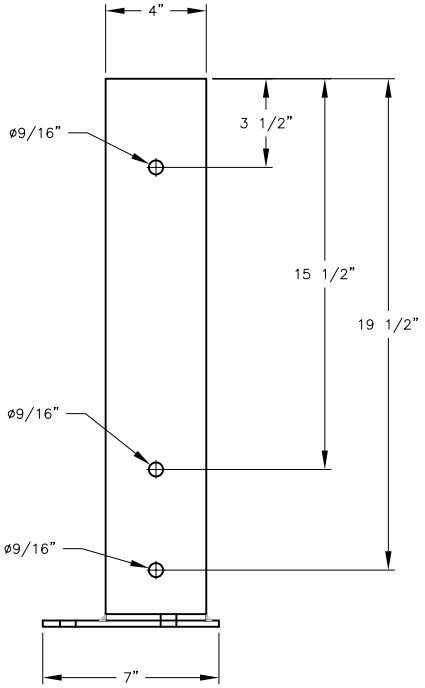


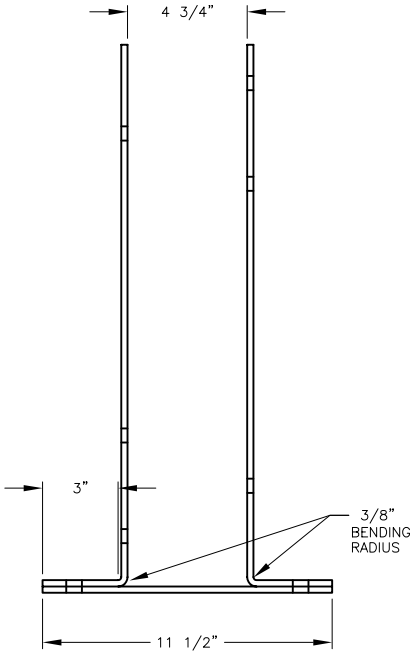
TOP VIEW

SCALE: 3" = 1'-0"



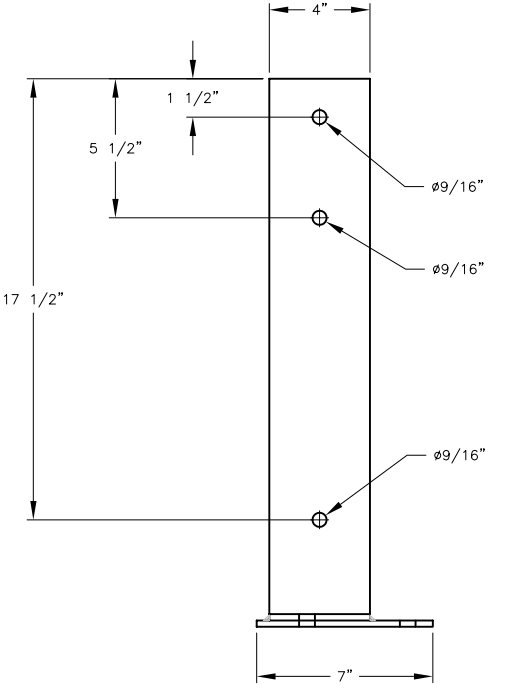
LEFT SIDE VIEW

SCALE: 3" = 1'-0"



FRONT VIEW

SCALE: 3" = 1'-0"



RIGHT SIDE VIEW

SCALE: 3" = 1'-0"

GENERAL NOTES

1. BOTTOM STEEL PLATE – 1/4" x 7" FLAT PLATE A36 STEEL
2. VERTICAL STEEL PIECES – 1/4" x 4" FLAT PLATE A36 STEEL
3. 1/4" FILLET WELDS USING E 60 XX ELECTRODES

POST FRAME STEEL BRACKET

MO-FLEX FARROWING BUILDING PLAN

DESIGNED BY:	DRAWN BY:	CHECKED BY:
JMZ	JMZ	JMZ

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