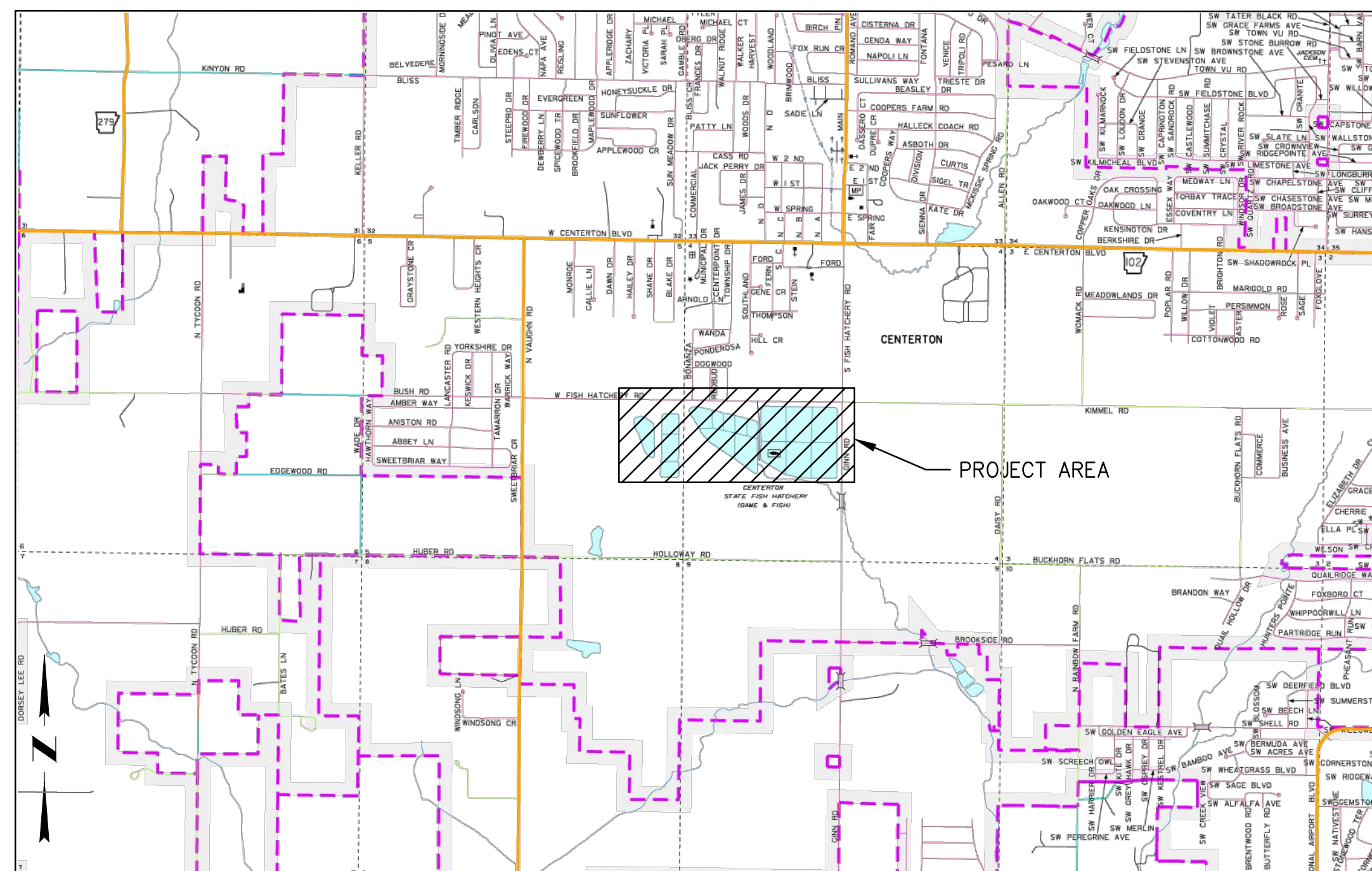
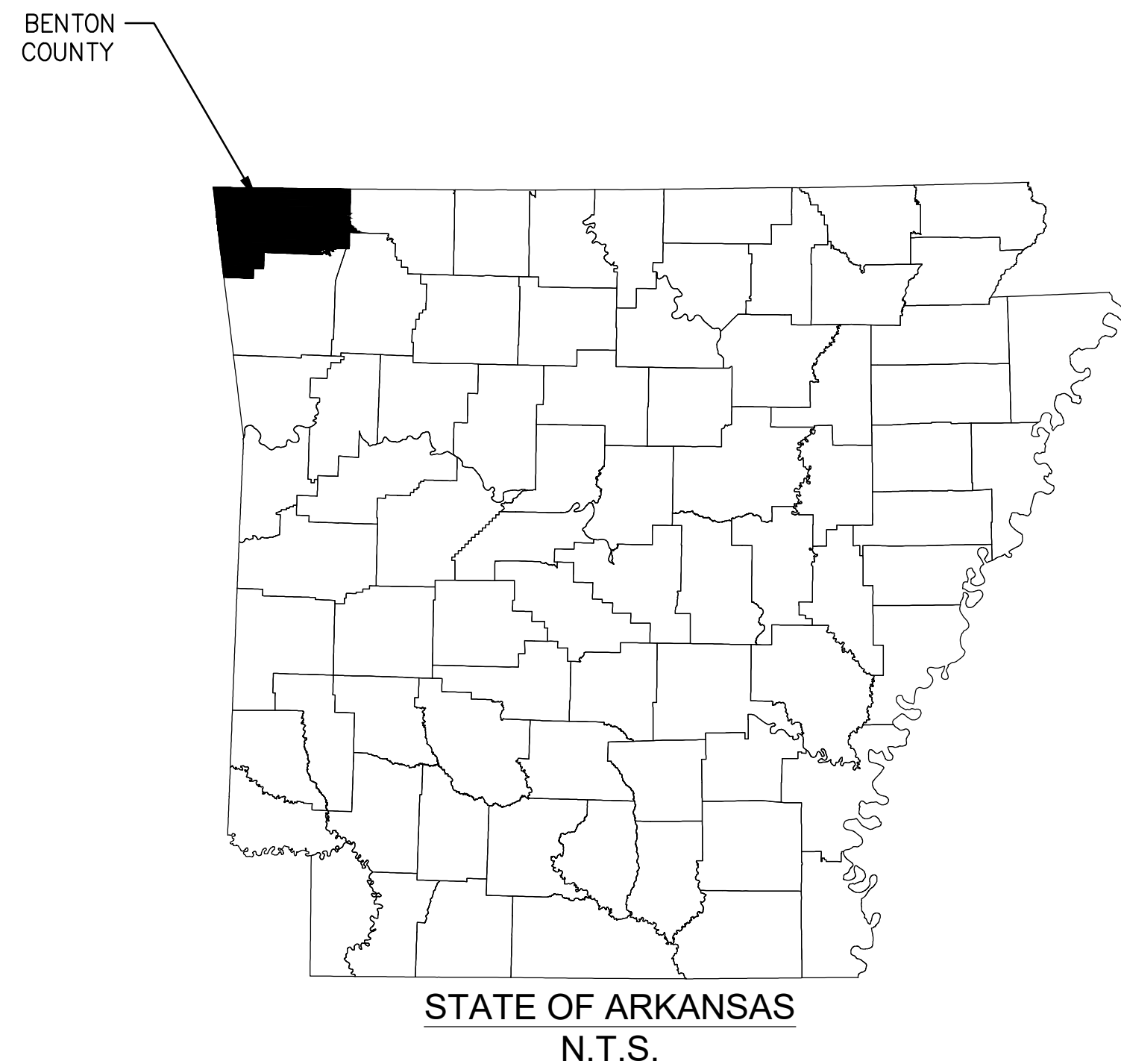


# ARKANSAS GAME & FISH COMMISSION CENTERTON, ARKANSAS

# CHARLIE CRAIG HATCHERY FACILITY UPGRADE

95% CONSTRUCTION DOCUMENTS

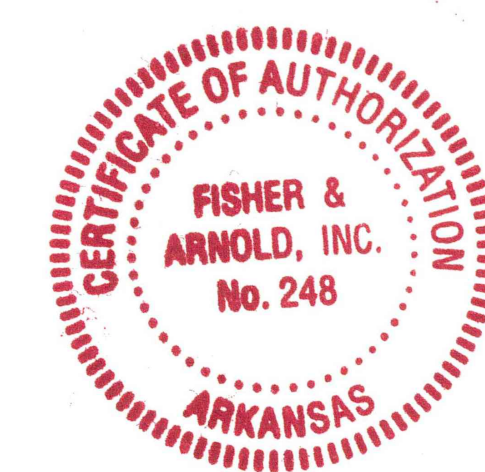
DATE: 12/08/2024



VICINITY MAP  
N.T.S.

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF Arkansas Game and Fish, CITY OF CENTERTON, AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

FOR UTILITIES: CALL CENTERTON UTILITIES, 1-479-795-0222  
72 HOURS BEFORE DIGGING.

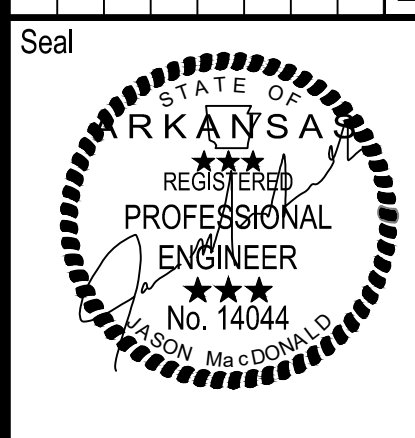


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FACILITY UPGRADES AT  
CHARLIE CRAIG HATCHERY FOR  
ARKANSAS GAME & FISH  
977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719

Rev.	Date	Revision Description



Issue Date:  
Project No: ARKGAMEF.0003 WR  
Drawn By: CCC  
Checked By: JM  
Sheet Title:

COVER

Sheet Number:  
C000

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 By: jmacdonald

CIVIL SHEET LIST	
SHEET NO.	DESCRIPTION
	CIVIL
C000	COVER
C100	DRAWING INDEX & NOTES
C101	PROCESS PIPE DIAGRAM
C102	EXISTING HYDRAULIC PROFILE
C103	PROPOSED DRAIN HYDRAULIC PROFILE (1 OF 2)
C105	PROPOSED SUPPLY HYDRAULIC PROFILE (1 OF 2)
C106	PROPOSED SUPPLY HYDRAULIC PROFILE (2 OF 2)
C201	DEMOLITION PLAN (1 OF 3)
C202	DEMOLITION PLAN (2 OF 3)
C203	DEMOLITION PLAN (3 OF 3)
C301	OVERALL SITE PLAN (1 OF 3)
C302	OVERALL SITE PLAN (2 OF 3)
C303	OVERALL SITE PLAN (3 OF 3)
C400	RECIRCULATING PIPE (STA 0+00 - STA 14+00)
C401	RECIRCULATING PIPE ( STA 14+00 - STA 28+50)
C402	RECIRCULATING PIPE (STA 28+50 - STA 37+00)
C403	HATCHERY POND SUPPLY LINE (STA 0+00 - STA 14+00)
C404	HATCHERY SUPPLY LINE (STA 0+00 - STA 14+50)
C405	HATCHERY SUPPLY LINE (STA 14+50 - STA 27+75)
C406	MAIN SUPPLY LINE (STA 0+00 - STA 14+50)
C407	MAIN SUPPLY LINE (STA 14+50 - STA 27+75)
C408	MAIN SUPPLY LINE (STA 28+50 - STA 34+00)
C409	POND 6A, 6B SUPPLY LINE
C410	POND 7A, 7B SUPPLY LINE
C411	POND 14-16 SUPPLY LINE
C412	POND 11-13 SUPPLY LINE
C413	POND 19, 20 SUPPLY LINE
C414	MAIN DRAIN PIPE (STA 0+00-STA 14+00)
C415	MAIN DRAIN PIPE (STA 14+00-STA 26+50)
C416	POND 19 & 20 DRAIN LINE
C417	POND 14A,14B,15A,15B,16 DRAIN LINE
C418	HP1,2,3 & POND-3,4 DRAIN LINE
C419	POND 1, 2, 6A,6B,7A DRAIN LINE
C420	POND 7A,7B,13A,13B,12A DRAIN LINE
C421	POND 12B,11A,11B DRAIN LINE
C422	POND 8A TO POND 10 DRAIN LINE
C423	POND 8B,9A,9B,10 DRAIN LINE
C424	SPRING BUILDING DRAIN LINE
C500	OVERALL GRADING PLAN (1 OF 3)
C501	OVERALL GRADING PLAN (2 OF 3)
C502	OVERALL GRADING PLAN (3 OF 3)
C503	GRADING PLAN (POND 6)
C504	GRADING PLAN (POND 7)
C505	GRADING PLAN (POND 8)
C506	GRADING PLAN (POND 9)
C507	GRADING PLAN (POND 10)
C508	GRADING PLAN (POND 11)
C509	GRADING PLAN (POND 12)
C510	GRADING PLAN (POND 13)
C511	GRADING PLAN (POND 14)
C512	GRADING PLAN (POND 15)
C513	GRADING PLAN (POND 16)
C514	GRADING PLAN (POND 19 & 21)
C515	POND 19 & 20 SWALE DETAILS
C516	HATCHERY BUILDING SITE PLAN
C517	HATCHERY BUILDING GRADING PLAN
C600	KETTLE STRUCTURE
C601	SPRING HOUSE BUILDING
C602	SPRING HOUSE PUMP STATION STRUCTURE
C602B	SPRING HOUSE PUMP STATION STRUCTURE
C603	JUNCTION STRUCTURE - 1

C604	JUNCTION STRUCTURE - 2
C605	RECIRCULATING PUMP STATION
C606	HATCHERY BUILDING ABOVE SLAB PROCESS PIPING PLAN
C607	HATCHERY BUILDING UNDER SLAB PROCESS PIPING PLAN
C608	HATCHERY BUILDING PROCESS PIPING LAYOUT PLAN
C609	HATCHERY BUILDING DOMESTIC WATER AND SANITARY SEWER PLAN AND PROFILE
C700	STANDPIPE TANK DETAILS
C800	DETAILS
C801	DETAILS
C802	DETAILS
C803	DETAILS
C804	DETAILS
C900	EROSION CONTROL PLAN (1 OF 3)
C901	EROSION CONTROL PLAN (2 OF 3)
C902	EROSION CONTROL PLAN (3 OF 3)
ARCHITECTURAL GENERAL INFORMATION	
G001	GENERAL NOTES, ABBREVIATIONS, MATERIAL LEGEND, & REFERENCE SYMBOLS
G002	CODE ANALYSIS
STRUCTURAL	
S001	GENERAL NOTES
S101	FOUNDATION AND SLAB PLAN
S102	SLAB SLOPE AND LAYOUT PLAN
S103	PARTIAL PLAN AT PIPE RACK
S201	PARTIAL PLAN AT PIPE RACK
S301	FOUNDATION DETAILS
S302	FOUNDATION DETAILS
S303	FOUNDATION DETAILS
S304	FOUNDATION DETAILS
S305	FOUNDATION DETAILS
ARCHITECTURAL	
AS101	SITE PLAN
A-001	WALL TYPES & PLAN DETAILS
A-100	SLAB LAYOUT PLAN
A-101	FLOOR PLAN & FINISH SCHEDULE
A-102	REFLECTED CEILING PLAN
A-103	ROOF PLAN
A-201	EXTERIOR ELEVATIONS
A-301	BUILDING SECTIONS
A-302	BUILDING SECTIONS
A-401	WALL SECTIONS
A-501	ENLARGED FLOOR PLAN, RESTROOM ELEVATIONS, ADA MOUNTING HEIGHTS
A-601	DOOR SCHEDULE, DOOR AND WINDOW DETAILS
PLUMBING	
P-000	PLUMBING GENERAL NOTES AND LEGENDS
P-101	FLOOR PLAN - PLUMBING
P-201	PLUMBING DETAILS
P-202	PLUMBING DETAILS
P-301	PLUMBING RISERS
P-302	PLUMBING RISERS
P-401	PLUMBING SCHEDULES
MECHANICAL	
M-101	FLOOR PLAN - HVAC
M-201	DETAILS - HVAC
M-301	SCHEDULES - HVAC
ELECTRICAL	
E-000	EAST SITE PLAN - ELECTRICAL
E-001	WEST SITE PLAN - ELECTRICAL
E-101	FLOOR PLAN - LIGHTING
E-102	FLOOR PLAN - POWER
E-103	FLOOR PLAN - SYSTEMS
E-201	ELECTRICAL LEGENDS & DETAILS
E-301	ELECTRICAL DETAILS & DIAGRAMS
E-401	ELECTRICAL PANEL SCHEDULES

**GENERAL NOTES**

- THE CONTRACTOR SHALL NOTIFY THE HATCHERY AT 1-479-795-2470 A MINIMUM OF 72 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- HORIZONTAL CONTROL FOR THIS PROJECT ARE BASED ON THE ARKANSAS STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM, 1983 (NAD 83). COORDINATES ON CONCRETE STRUCTURES OR SURFACES ARE LOCATED ON THE EXTERIOR FACE.
- VERTICAL CONTROL FOR THIS PROJECT ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAD88). BENCHMARKS AND/OR STRUCTURE ELEVATIONS FROM EXISTING MONUMENTS ON DRAWINGS MAY VARY WITH ELEVATIONS FROM THE ORIGINAL SURVEY. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO ENSURE THERE IS ZERO VARIANCE. CONTACT FISHER ARNOLD IF VARIANCES IN THE CONTROL ARE FOUND.
- THE LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE AND NOT NECESSARILY ALL OF SAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE APPROPRIATE UTILITY COMPANY TO DETERMINE THE EXACT LOCATION OF ALL UTILITIES AND UNDERGROUND STRUCTURES PRIOR TO THE INITIATION OF ANY CONSTRUCTION ON THE PROJECT OR IN THE STREETS BORDERING THE PROJECT. THE CONTRACTOR SHALL ALSO ASSUME FULL RESPONSIBILITY FOR DAMAGE TO ANY UTILITIES ENCOUNTERED WITHIN AND ADJACENT TO THE CONSTRUCTION LIMITS, WHETHER SHOWN ON THE PLANS OR NOT, DURING THE WORK ON THE PROJECT. FOR SITE LOCATIONS OF EXISTING UTILITIES INVOLVING CITY OF CENTERTON CALL THE PUBLIC WORKS DIVISION.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AND EXISTING EQUIPMENT (ONSITE) AT ALL TIMES. ALL WORK SHALL BE PERFORMED IN SUCH A MANNER THAT ADJACENT PROPERTIES ARE NOT DAMAGED OR ADVERSELY AFFECTED.
- ALL CONSTRUCTION MATERIALS AND PROCEDURES SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS.
- THE CONTRACTOR SHALL FIELD VERIFY ALL PROPERTY LINES PRIOR TO CONSTRUCTION. GRADING, CLEARING AND THE ERECTION OR REMOVAL OF FENCES ALONG PROPERTY LINES SHALL BE FULLY COORDINATED WITH ADJACENT PROPERTY OWNERS.
- THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER OF ANY DISCREPANCIES OR VARIATIONS PRIOR TO COMMENCEMENT OF WORK. ANY CONSTRUCTION WORK AFFECTED BY SAID DISCREPANCIES AND/OR VARIATIONS SHALL CEASE UNTIL ADDRESSED BY THE PROJECT ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A SAFE WORK ENVIRONMENT, INCLUDING THE INSTALLATION OF TEMPORARY FENCING AND OTHER SAFETY BARRIERS AS NECESSARY DURING ALL PHASES OF CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION RELATED SURVEYING, INCLUDING ALL LAYOUT AND GRADE STAKING.
- THE LOCATION OF THE BORE HOLES AND PIEZOMETER HOLES ARE APPROXIMATE, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REFER TO THE GEOTECHNICAL REPORT FOR THE ACTUAL LOCATION AND DATA.
- FINISH GRADE ELEVATIONS ON NON-PAVED SIDE NEED TO BE A MINIMUM OF 6 INCHES BELOW FINISH FLOOR ELEVATION. THE CONTRACTOR SHALL MAKE ADJUSTMENTS ENSURE NO PONDING AT THOSE LOCATIONS.
- CONTRACTOR SHALL INSTALL ALL PIPING, PAVING & CONCRETE SURFACES AT UNIFORM GRADE BETWEEN ELEVATIONS SHOWN ON THE PLANS.
- THE CONTRACTOR IS RESPONSIBLE TO ADHERE TO THE FEDERAL & STATE SAFETY REGULATIONS FOR ALL OF THE GENERAL AND SUBCONTRACTOR CREWS ON SITE. THE INSPECTOR, ENGINEER AND/ OR OWNER HAVE THE RIGHT TO SHUT DOWN AND CONSTRUCTION PRACTICE THAT DOES NOT ALIGN WITH THOSE SAFETY REGULATIONS.

**EROSION CONTROL NOTES:**

- ALL NEWLY CUT OR FILL AREAS LACKING ADEQUATE VEGETATION SHALL BE FERTILIZED, MULCHED, SEEDDED, AND/OR SODDDED TO EFFECTIVELY CONTROL SOIL EROSION.
- A SPECIFIC INDIVIDUAL SHALL BE DESIGNATED TO BE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROLS ON THE PROJECT SITE. PER ADEE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SOIL EROSION CONTROL MEASURES AS NOTED ON THE PLANS AND AS REQUESTED BY THE OWNER DURING CONSTRUCTION. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR SATISFYING THE REQUIREMENTS OUTLINES IN THE EROSION CONTROL SHEETS AND THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP). ALL SOIL EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE CONTRACT SO AS TO PREVENT ANY SEDIMENTATION FROM WASHING OFF THE SITE ONTO ADJACENT PROPERTY OR PUBLIC RIGHTS-OF-WAY. STRAW BALE DAMS AND/OR SEDIMENT FENCE SHALL BE INSTALLED AS DIRECTED. THE CONTRACTOR SHALL MAINTAIN A LOG OF ALL MAINTENANCE ACTIVITIES FOR THE EROSION CONTROL ELEMENTS AS REQUIRED BY THE SWPPP.
- A COPY OF THE SWPPP MUST BE AVAILABLE ON SITE FOR THE ADEE INSPECTOR ON REQUEST.
- EROSION AND SEDIMENT CONTROL MEASURES MUST BE IN PLACE AND FUNCTIONAL BEFORE EARTH MOVING OPERATIONS BEGIN AND MUST BE CONSTRUCTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. TEMPORARY MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORK DAY, BUT MUST BE REPLACED AT THE END OF THE WORK DAY OR PRIOR TO RAINFALL EVENTS.
- ALL CONTROL MEASURES SHALL BE CHECKED, AND REPAIRED AS NECESSARY, AT THE MINIMUM REQUIRED INTERVAL OUTLINED IN THE SWPPP. DURING PROLONGED RAINFALL, DAILY CHECKING AND REPAIRING IS NECESSARY. THE PERMITTEE SHALL MAINTAIN RECORDS OF CHECKS AND REPAIRS.
- IF PUMPING IS REQUIRED, SEDIMENT LADEN WATER IS NOT TO BE DISCHARGED INTO THE STORM DRAIN OR ON TOP OF THE GROUND.
- IF THE CONTRACTOR ELECTS TO ACCESS THE SITE FROM A LOCATION NOT SHOWN ON THE PLANS, THEN HE OR SHE MUST RESTORE THAT AREA TO THE ORIGINAL CONDITION. THAT INCLUDES ALL THE SOD, SEED AND/OR RIP RAP NEEDED.

LEGEND	
	EX. WATER PIPE
	EX. DRAINAGE PIPE
	EX. OVERHEAD ELECTRIC
	TOP OF BANK
	TOE OF BANK
	EDGE OF WATER
	EX. FENCE
	EX. SEWER PIPE
	EX. ASPHALT
	EX. CONCRETE
	EX. BUILDING OUTLINE
	ROAD CENTER
	EX. TREE LINE
	PROPERTY BOUNDARY
	EX. STORM PIPE
	EX. FLOW LINE
	EX. SWALE
	EX. GRAVEL
	EX. SEWER MANHOLE
	EX. WATER VALVE
	PROP. FORCE MAIN
	PROP. DRAINAGE PIPE
	PROP. WATER PIPE
	PROP. BUILDING OUTLINE
	PROP. WEIR STRUCTURE
	PROP. DRAINAGE MANHOLE
	PROP. AERATOR
	PROP. KETTLE STRUCTURE
	PROP. GRAVEL
	PROP. POND LEVEE

FACILITY UPGRADES AT  
 CHARLIE CRAIG HATCHERY FOR  
 ARKANSAS GAME & FISH  
 977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72179

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Rev.	Date	Revision Description



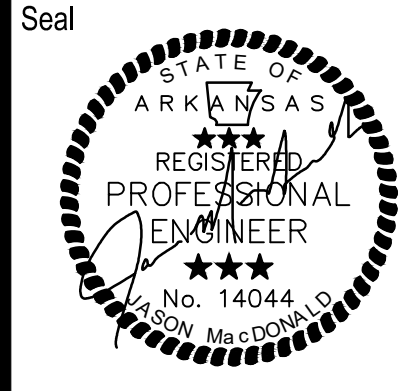
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 Project No: ARKGAMEF.0003 WR  
 Drawn By: CCC  
 Checked By: JM  
 Sheet Title:

**SHEET INDEX &  
 GENERAL  
 NOTES**

Sheet Number:  
C100

**FACILITY UPGRADES AT  
 CHARLIE CRAIG HATCHERY FOR  
 ARKANSAS GAME & FISH  
 977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719**

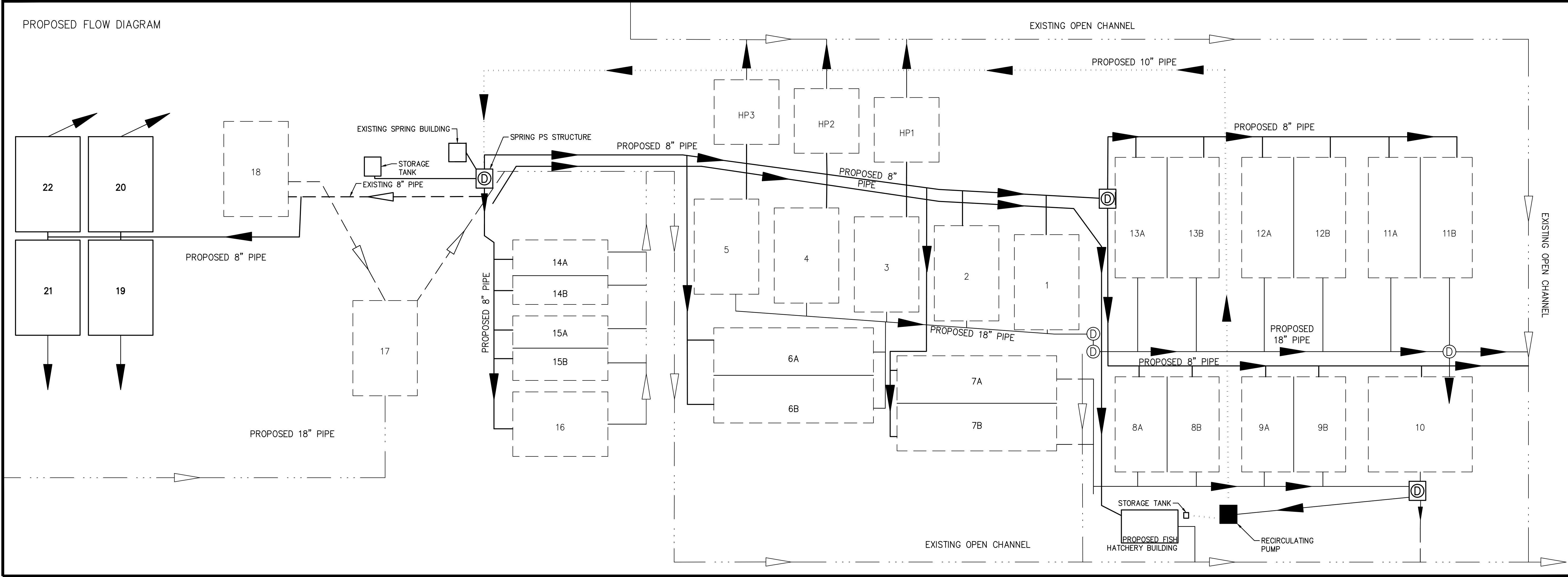
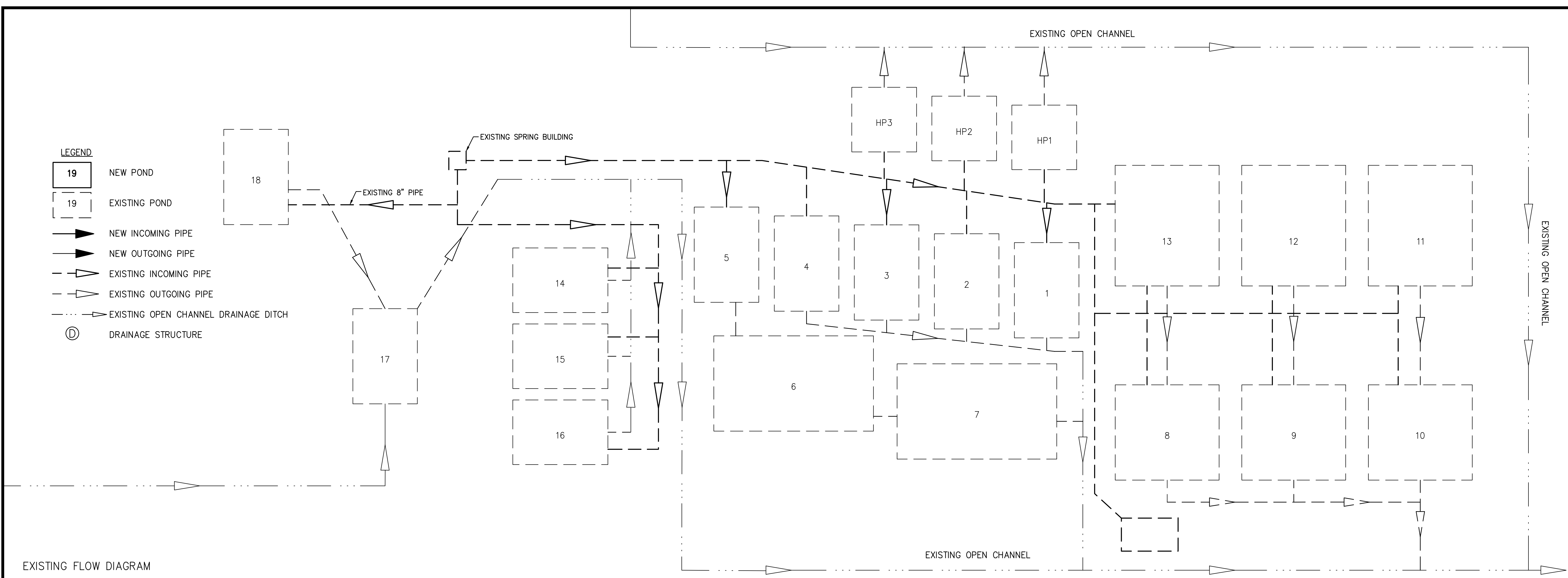
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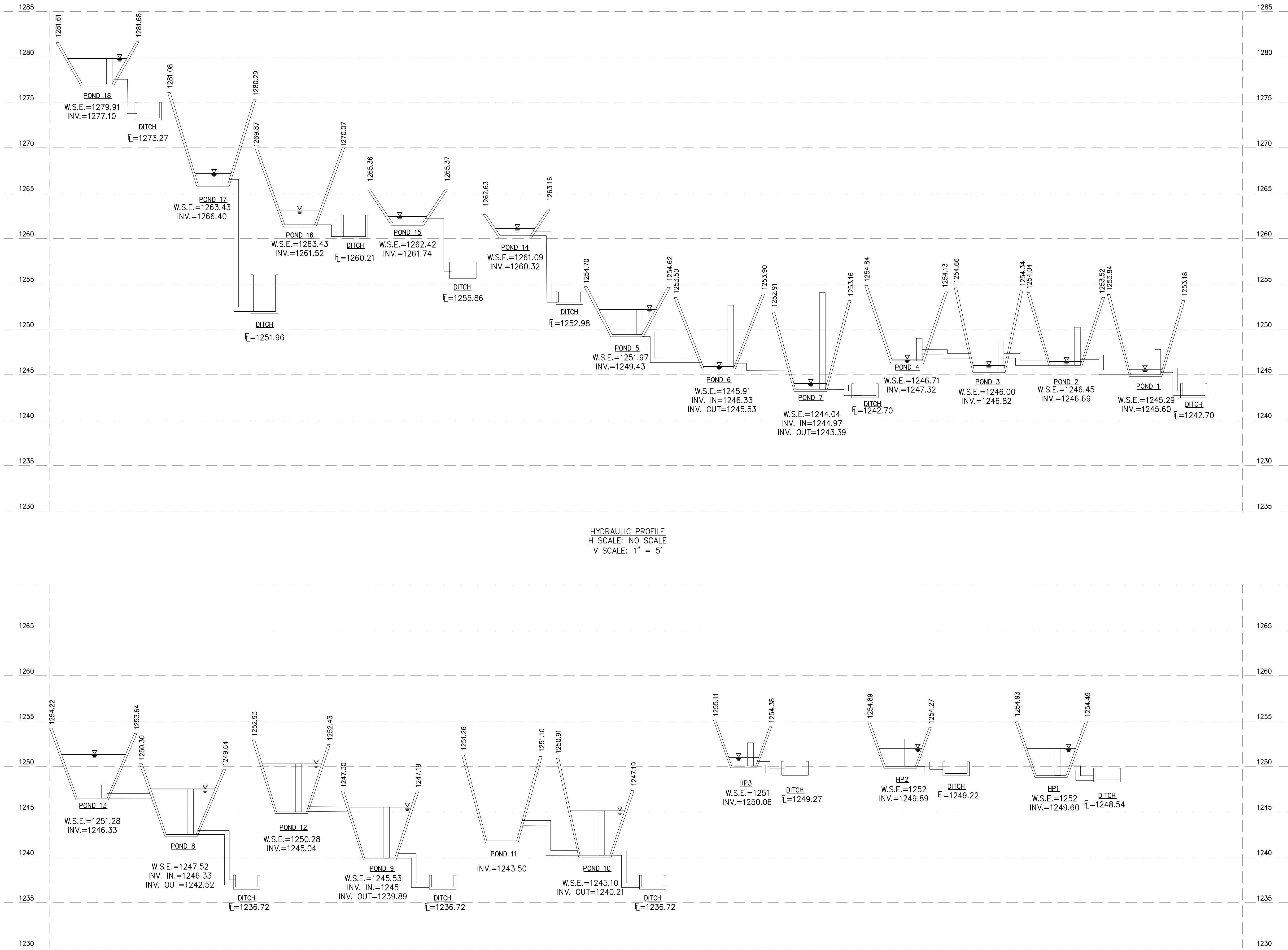
**FLOW DIAGRAM**

Sheet Number:  
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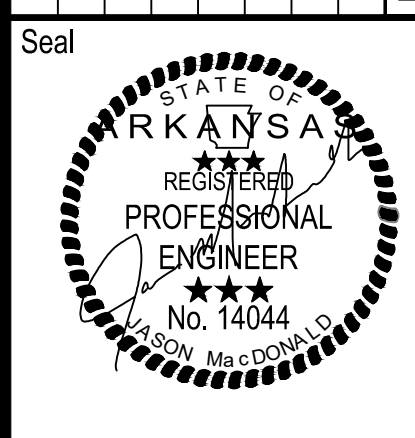
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FACILITY UPGRADES AT  
 CHARLIE CRAIG HATCHERY FOR  
 ARKANSAS GAME & FISH  
 977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72119

Rev.	Date	Revision Description

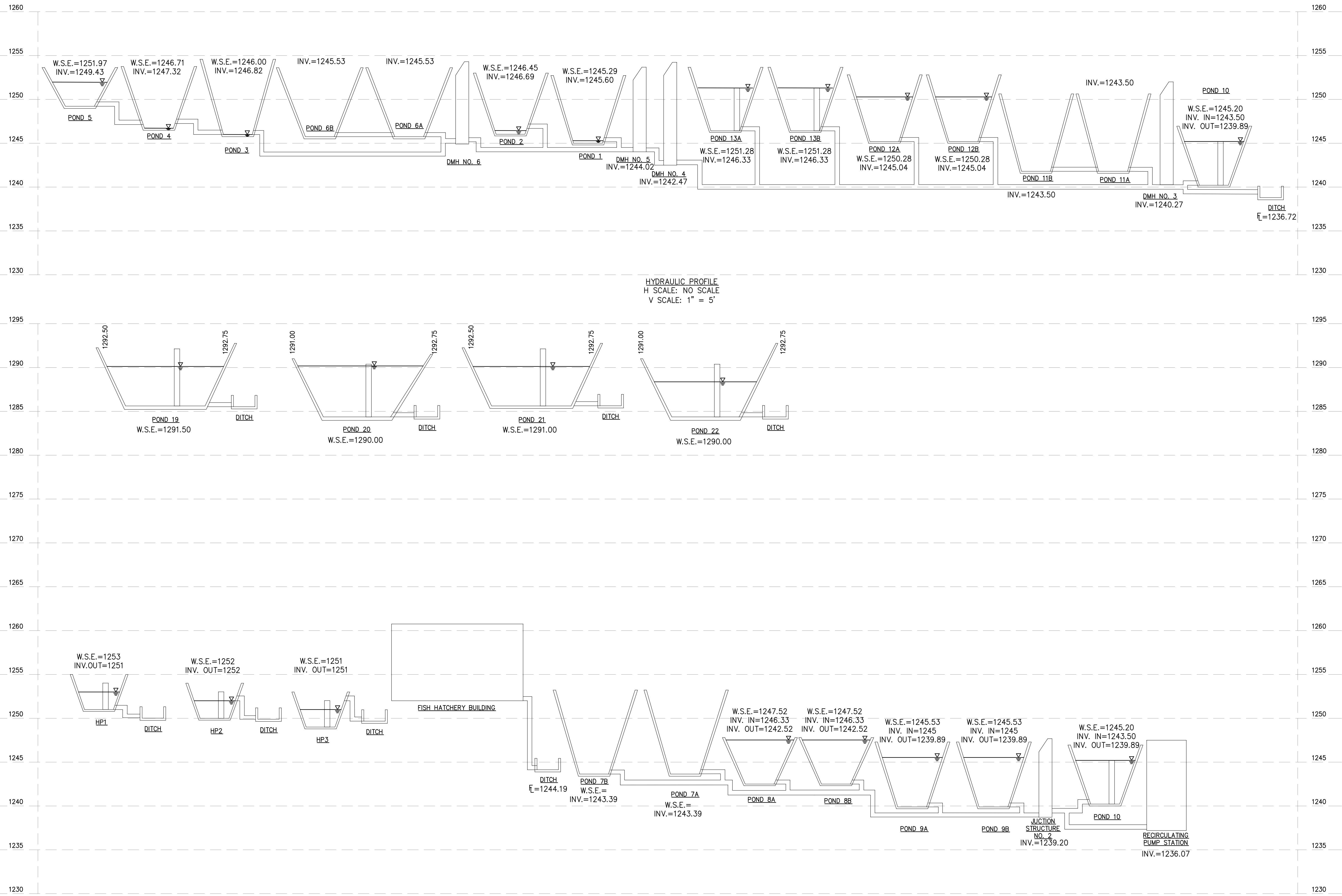


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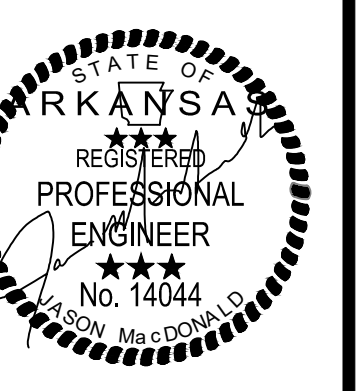
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**FACILITY UPGRADES AT  
 CHARLIE CRAIG HATCHERY FOR  
 ARKANSAS GAME & FISH**  
 977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719

Rev.	Date	Revision Description

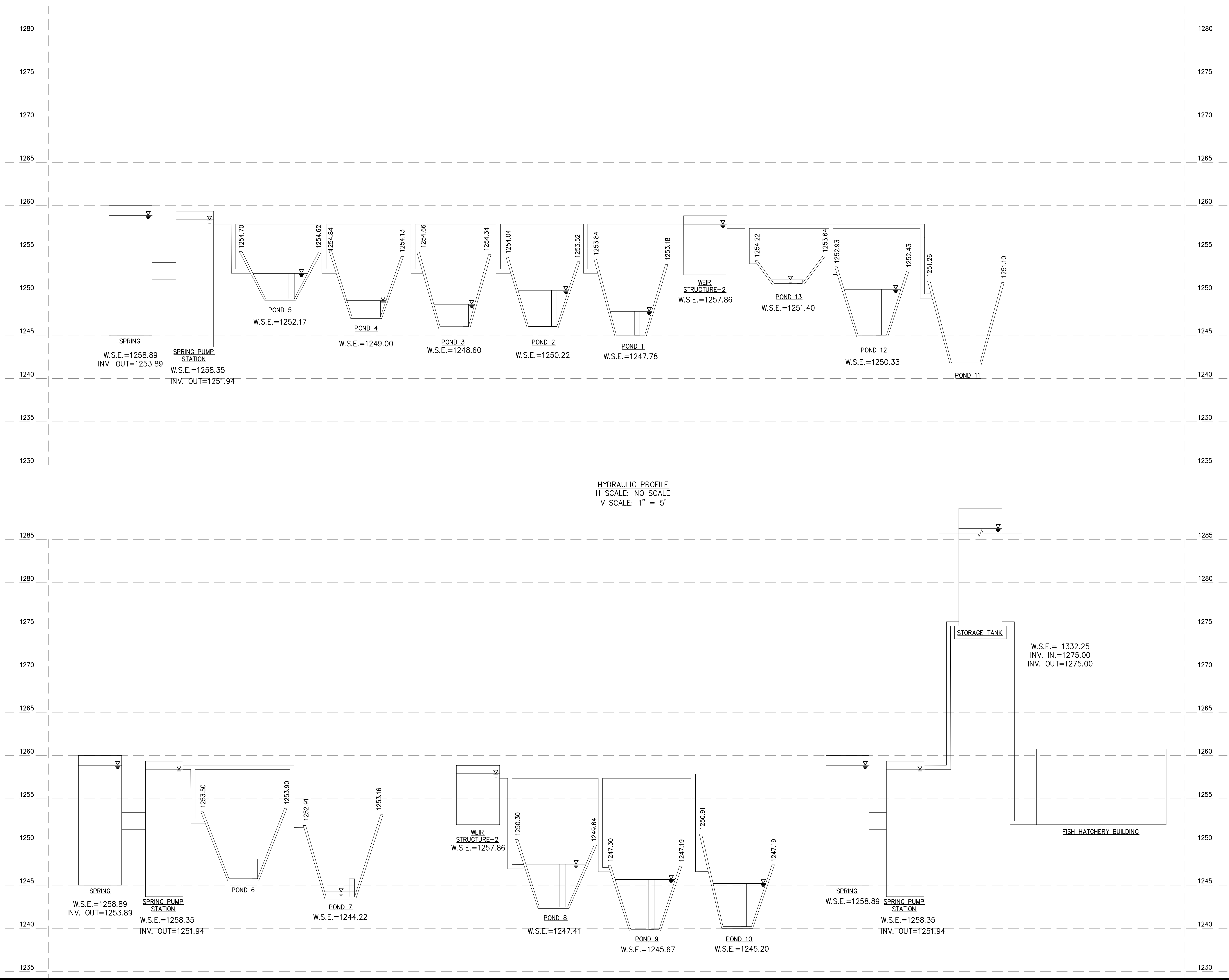


Issue Date:  
 Project No: ARKGAMEF.0003 WR  
 Drawn By: CCC  
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 Sheet Title:

**PROPOSED DRAIN  
 HYDRAULIC  
 PROFILE (1 OF 1)**

Sheet Number:  
**C103**

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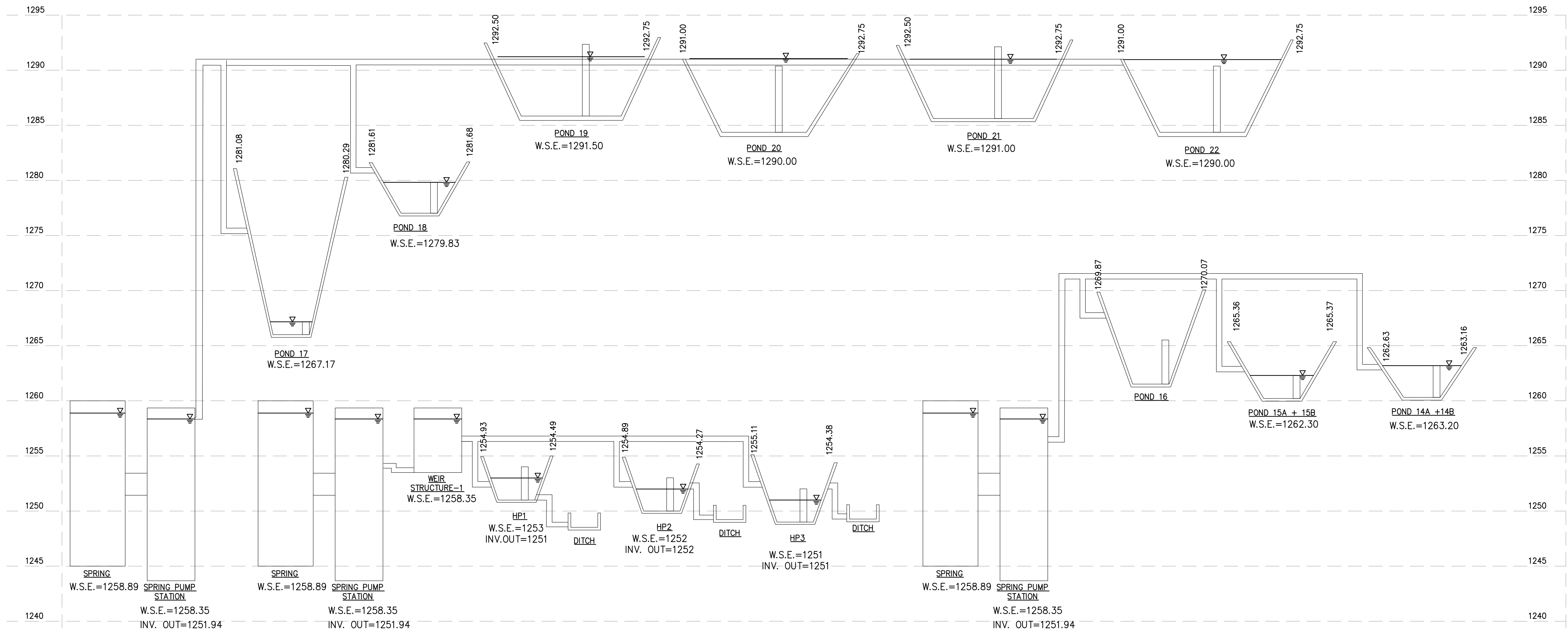
**FACILITY UPGRADES AT  
 CHARLIE CRAIG HATCHERY FOR  
 ARKANSAS GAME & FISH**

977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72119

Rev.	Date	Revision Description

Issue Date:	
Project No: ARKGAMEF.0003 WR	
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Checked By:	JM
Sheet Title:	
<b>PROPOSED SUPPLY HYDRAULIC PROFILE (1 OF 2)</b>	
Sheet Number:	
<b>C104</b>	

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HYDRAULIC PROFILE  
 H SCALE: NO SCALE  
 V SCALE: 1" = 5'

**FACILITY UPGRADES AT  
 CHARLIE CRAIG HATCHERY FOR  
 ARKANSAS GAME & FISH  
 977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719**

Rev.	Date	Revision Description

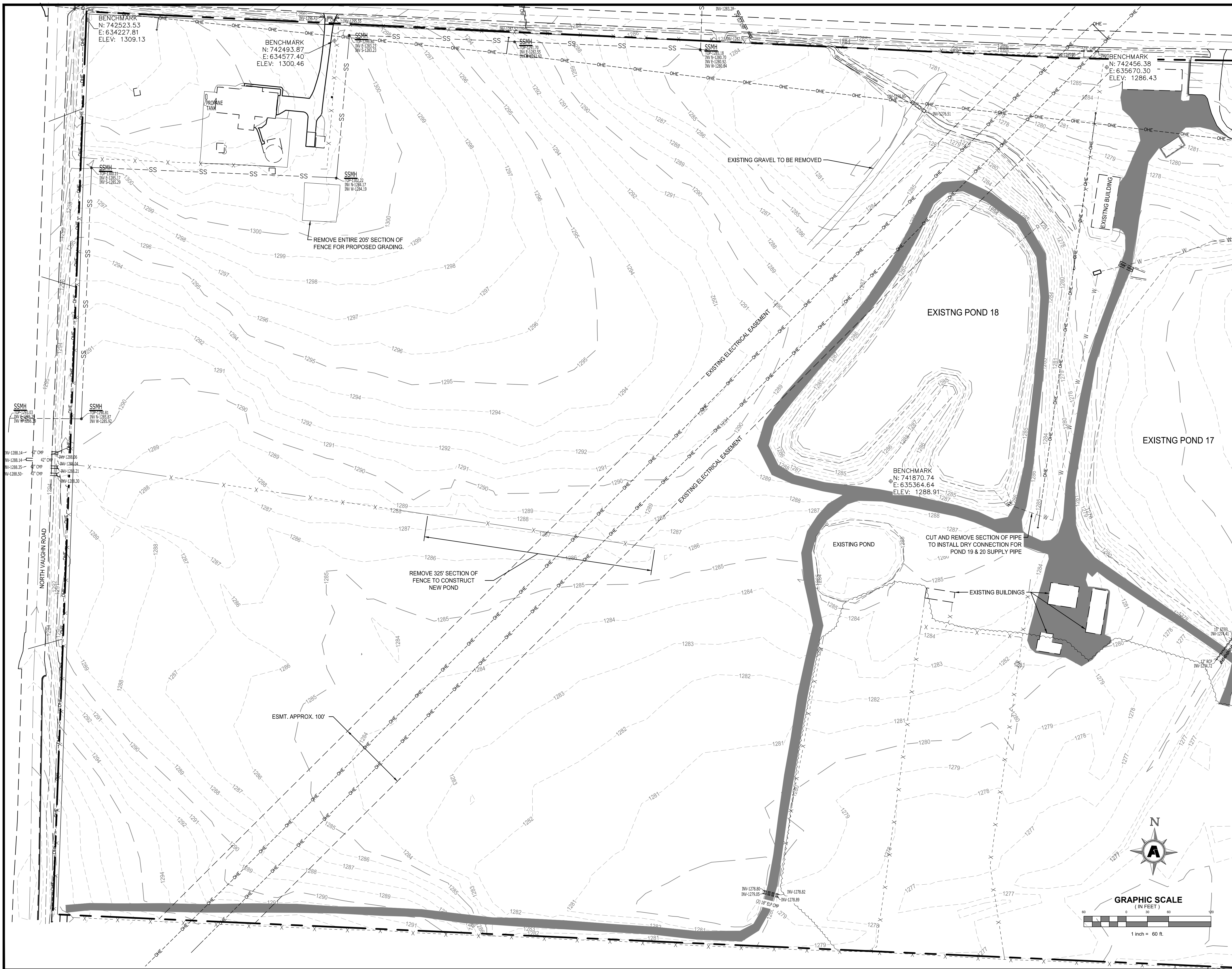


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**PROPOSED  
 SUPPLY  
 HYDRAULIC  
 PROFILE (2 OF 2)**

Sheet Number:  
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 Layout Name: C201 DEMOLITION PLAN (1 OF 3)  
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MATCHLINE

**FACILITY UPGRADES AT  
 CHARLIE CRAIG HATCHERY FOR  
 ARKANSAS GAME & FISH**  
 977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719

Rev.	Date	Revision Description



Issue Date: 11/21/24  
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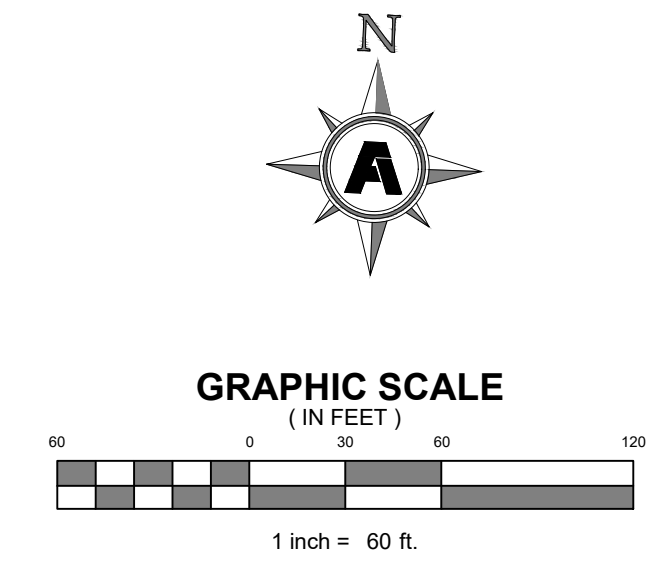
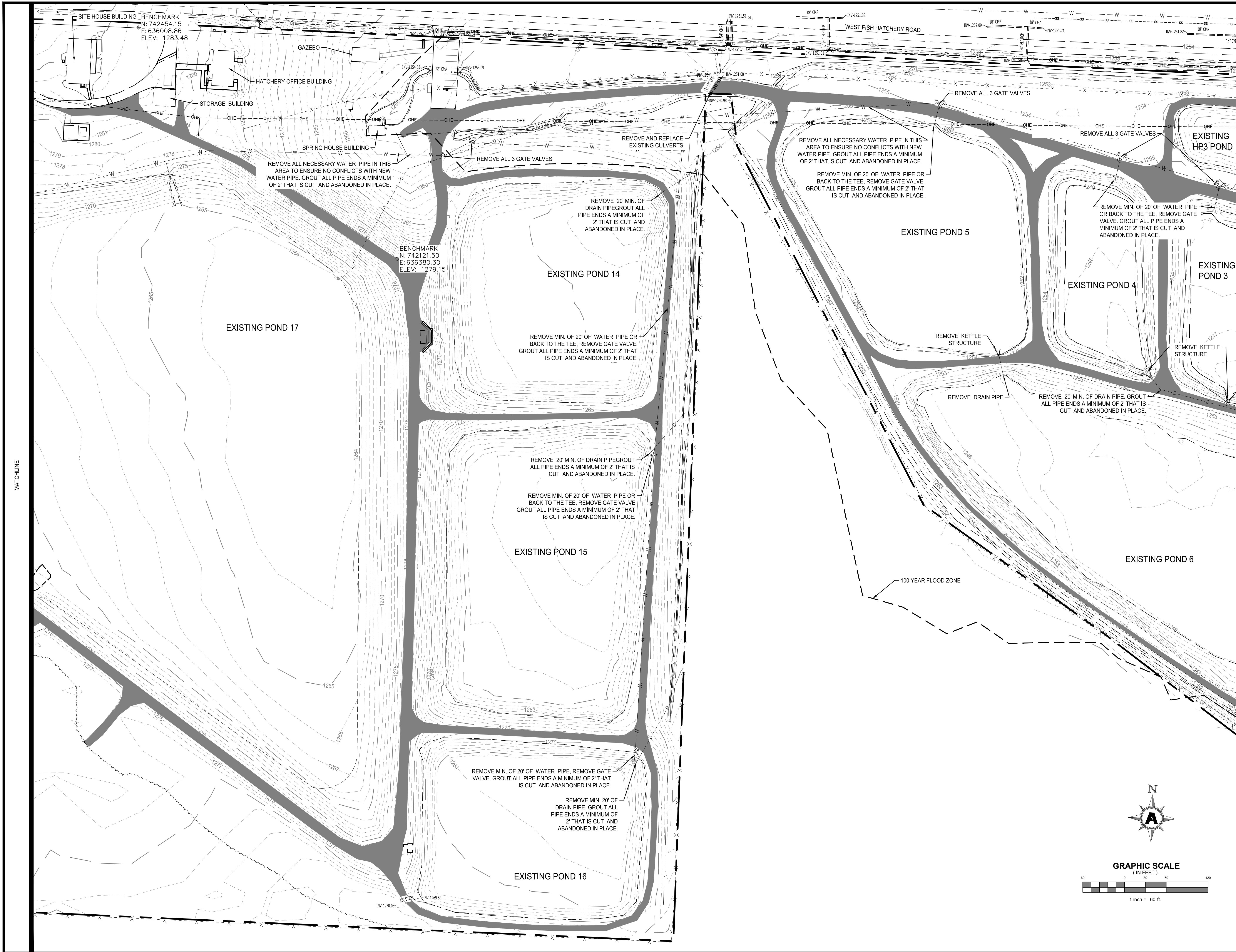
**DEMOLITION PLAN  
 (1 OF 3)**

Sheet Number:  
**C201**

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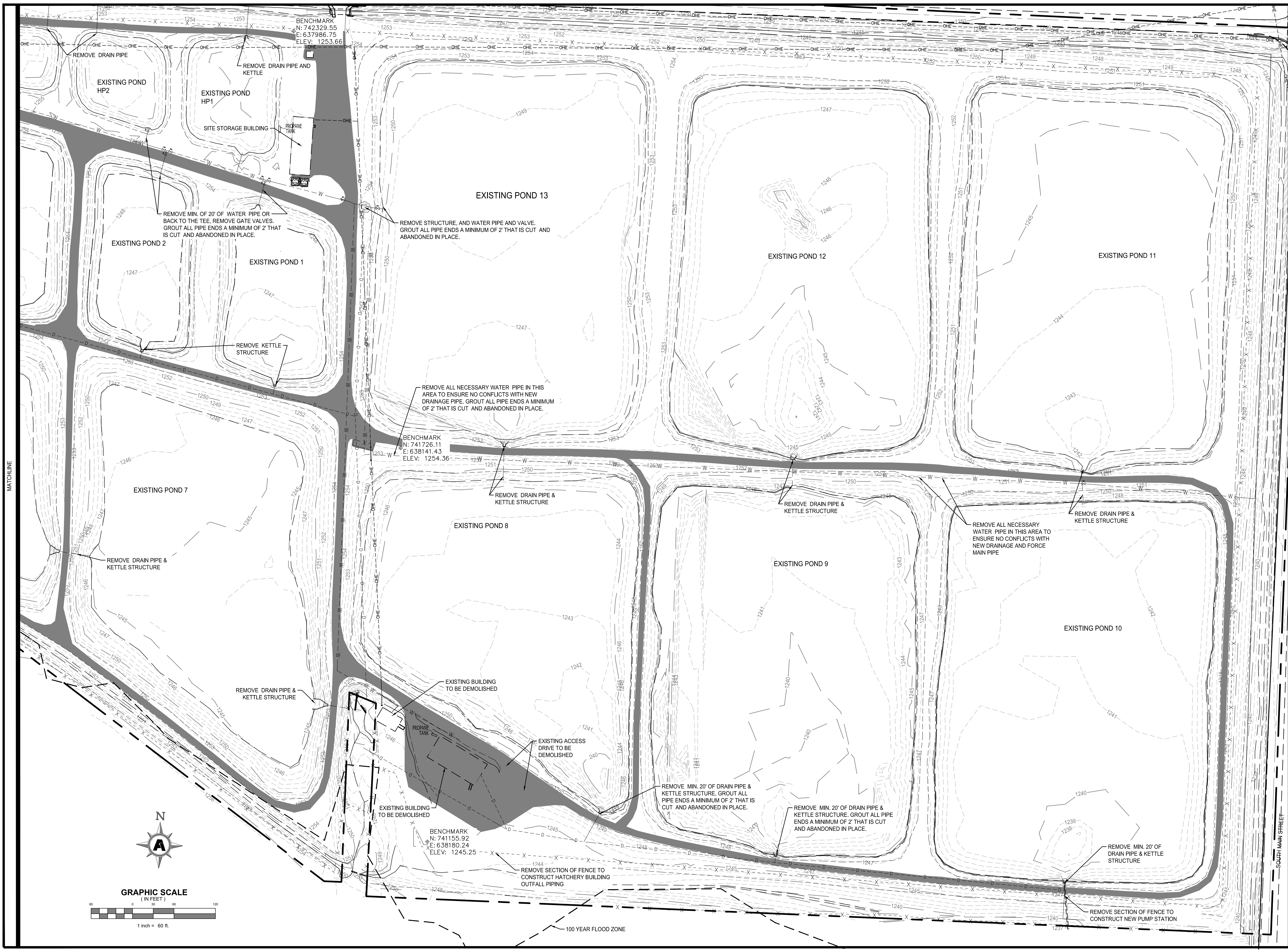


Issue Date: 11/21/24  
 Project No: ARKGAMEF.0003 WR  
 Drawn By: CCC  
 Checked By: JM

Sheet Title:  
**DEMOLITION PLAN (2 OF 3)**

Sheet Number:  
**C202**

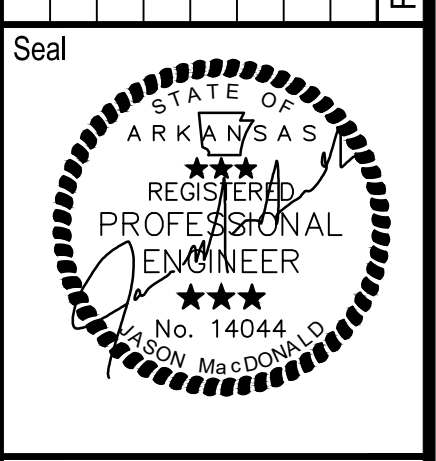
Copyright 2024 Fisher & Arnold, Inc., all rights reserved.  
 Location: C:\Users\jarnold\OneDrive\Documents\Projects\ArkGame\003\W\2023\DEMOLITION PLAN (3 OF 3).dwg  
 Plotted: Sunday, December 29, 2024 - 2:05 pm  
 By: jarnold



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**FACILITY UPGRADES AT  
 CHARLIE CRAIG HATCHERY FOR  
 ARKANSAS GAME & FISH  
 977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719**

Rev.	Date	Revision Description

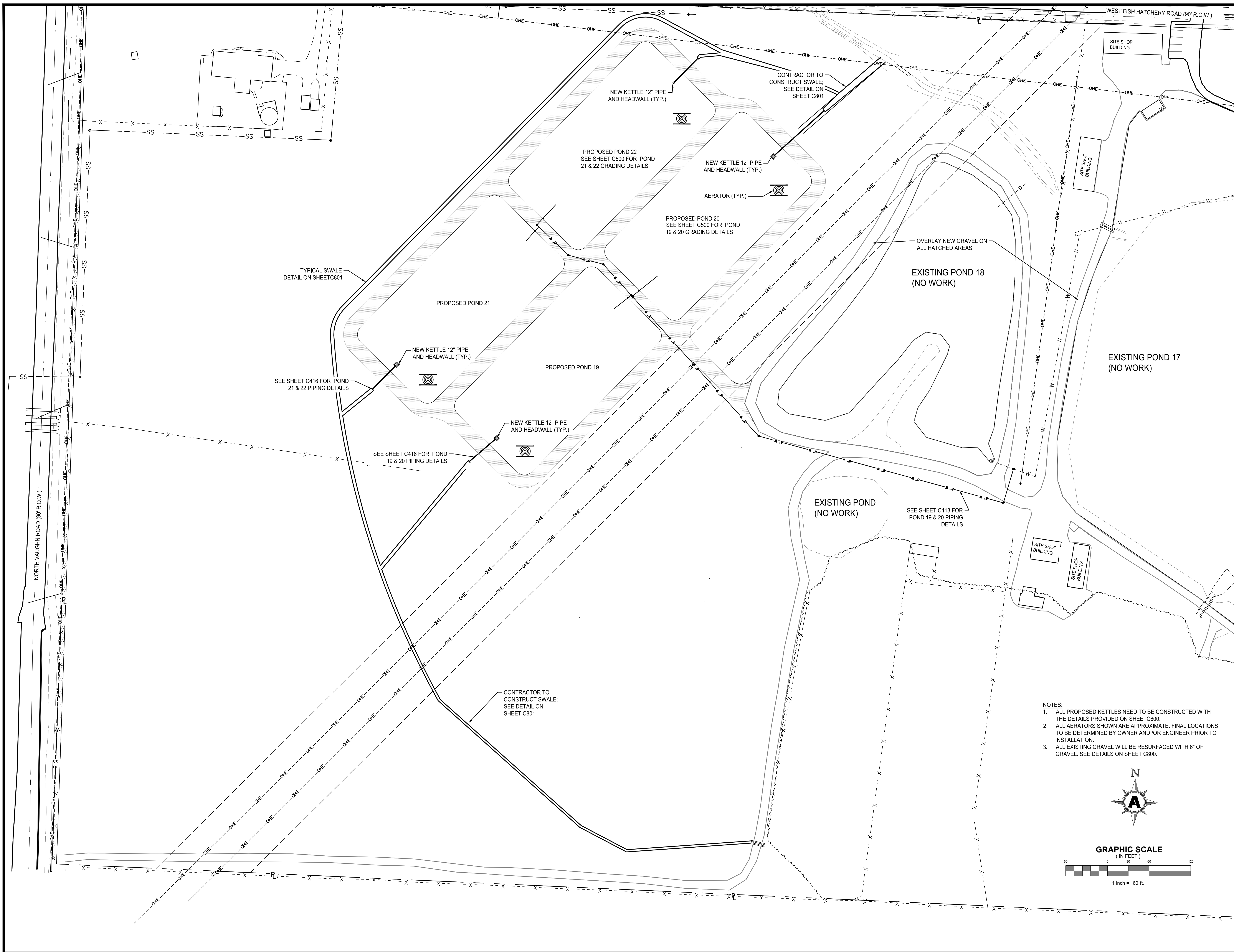


Issue Date: 11/21/24  
 Project No: ARKGAMEF.0003 WR  
 Drawn By: CCC  
 Checked By: JM  
 Sheet Title:

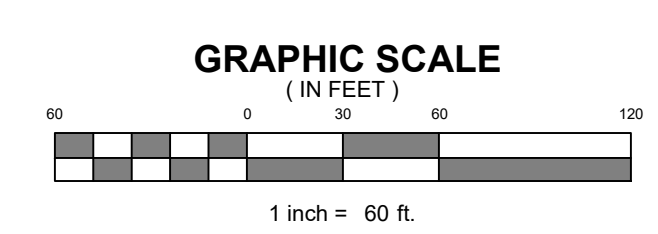
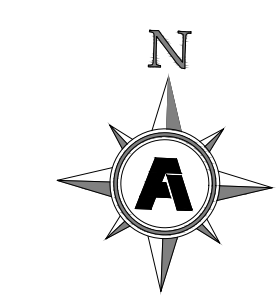
**DEMOLITION PLAN  
 (3 OF 3)**

Sheet Number:  
**C203**

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 Location: C:\Users\jmacdonald\OneDrive\Documents\Projects\ARKGAME0003WR\CAD\Plans\9 OVERALL SITE PLAN.dwg  
 Plotted: Sunday, December 29, 2024 9:47 am  
 By: jmacdonald



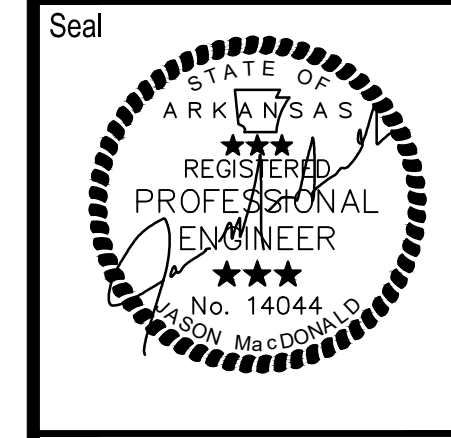
- NOTES:**
1. ALL PROPOSED KETTLES NEED TO BE CONSTRUCTED WITH THE DETAILS PROVIDED ON SHEET C600.
  2. ALL AERATORS SHOWN ARE APPROXIMATE. FINAL LOCATIONS TO BE DETERMINED BY OWNER AND/OR ENGINEER PRIOR TO INSTALLATION.
  3. ALL EXISTING GRAVEL WILL BE RESURFACED WITH 6" OF GRAVEL. SEE DETAILS ON SHEET C800.



**FACILITY UPGRADES AT  
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Rev.	Date	Revision Description

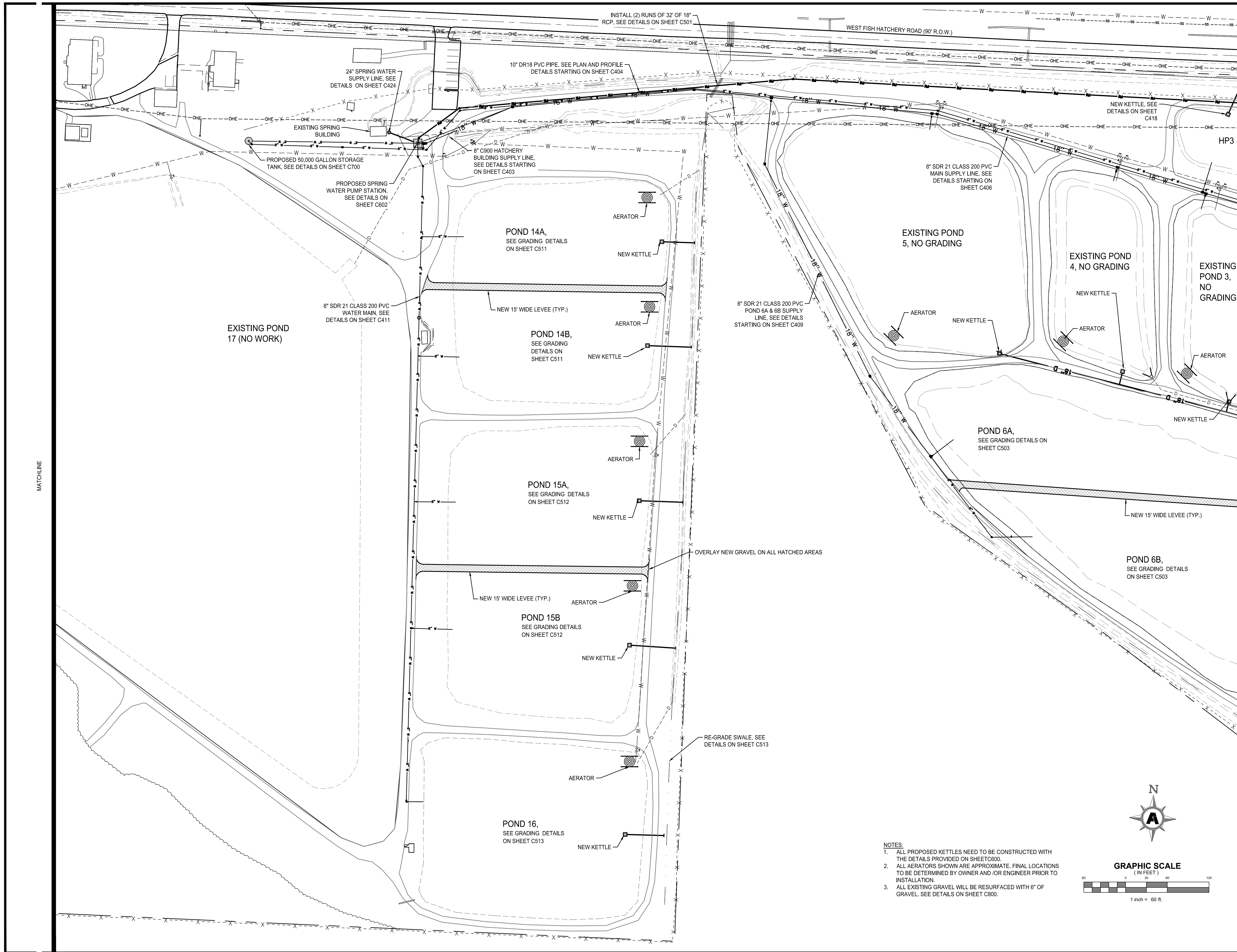


Issue Date: 12/12/24  
 Project No: ARKGAMEF.0003 WR  
 Drawn By: CCC  
 Checked By: JM

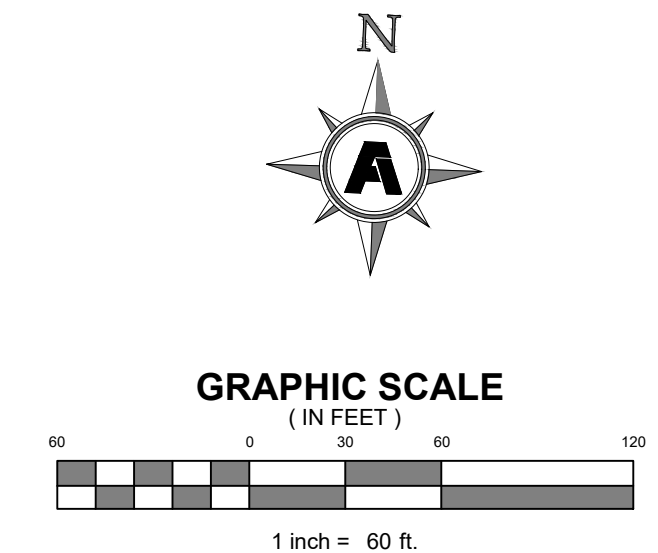
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**PROPOSED  
 OVERALL SITE  
 PLAN (1 OF 3)**

Sheet Number:  
**C301**

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 Layout Name: C302 PROPOSED OVERALL SITE PLAN (2 OF 3)  
 Plotted: Sunday, December 29, 2024 - 9:36 am  
 By: jmacdonald



- NOTES:**
1. ALL PROPOSED KETTLES NEED TO BE CONSTRUCTED WITH THE DETAILS PROVIDED ON SHEET C600.
  2. ALL AERATORS SHOWN ARE APPROXIMATE. FINAL LOCATIONS TO BE DETERMINED BY OWNER AND/OR ENGINEER PRIOR TO INSTALLATION.
  3. ALL EXISTING GRAVEL WILL BE RESURFACED WITH 6" OF GRAVEL. SEE DETAILS ON SHEET C800.



**FACILITY UPGRADES AT  
 CHARLIE CRAIG HATCHERY FOR  
 ARKANSAS GAME & FISH**

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Rev.	Date	Revision Description

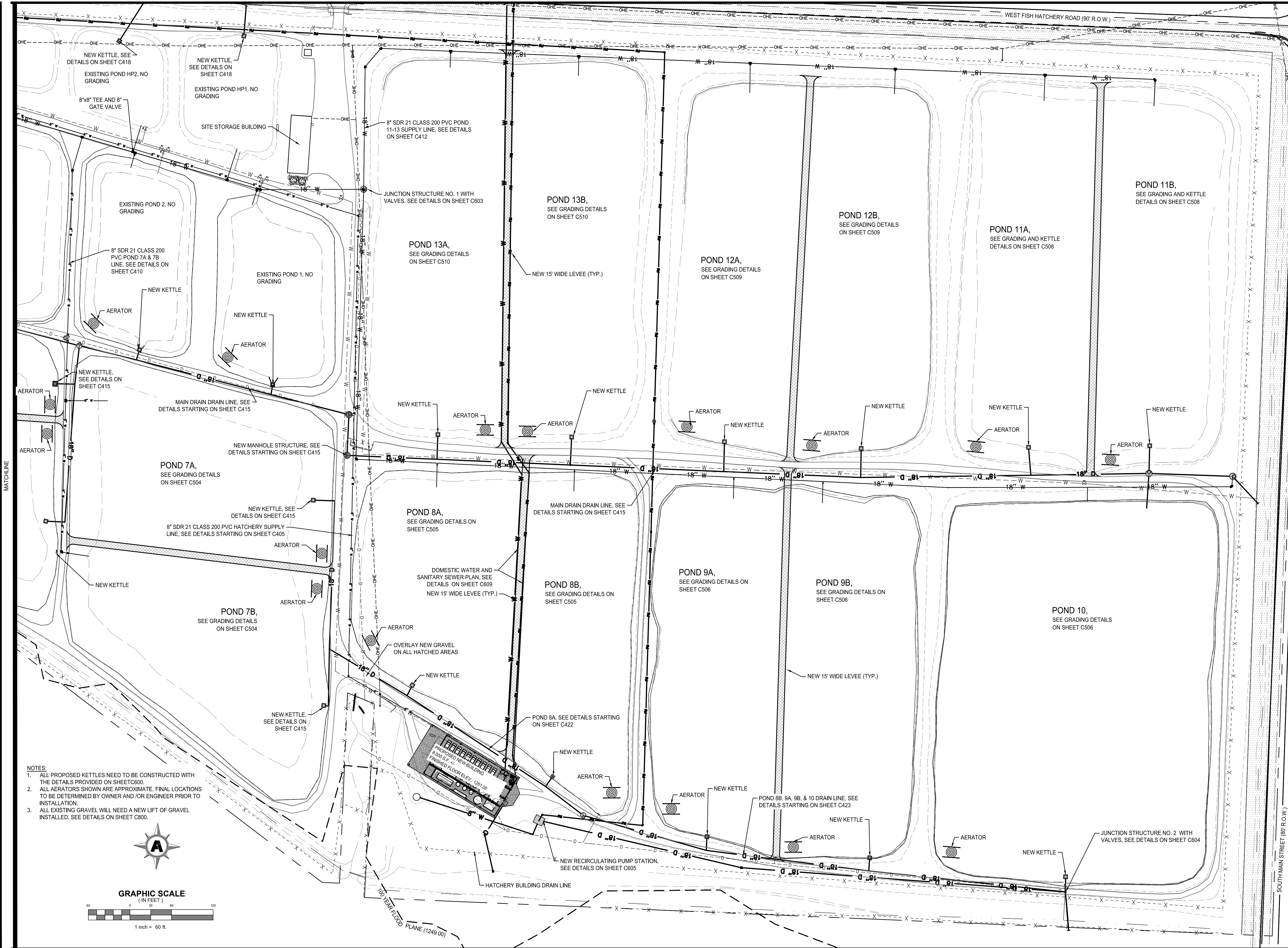


Issue Date: 12/12/24  
 Project No: ARKGAMEF.0003 WR  
 Drawn By: CCC  
 Checked By: JM  
 Sheet Title:

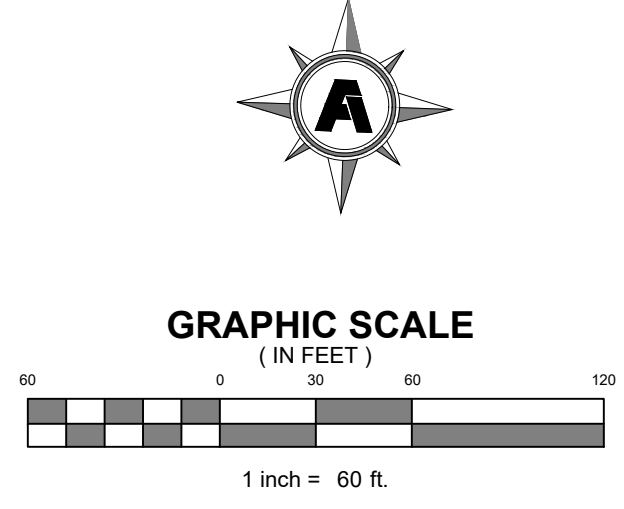
**PROPOSED  
 OVERALL SITE  
 PLAN (2 OF 3)**

Sheet Number:  
**C302**

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 Layout Name: C303 PROPOSED OVERALL SITE PLAN (3 OF 3)  
 Plotted: Sunday, December 29, 2024 - 9:48 am  
 By: jmcDonald



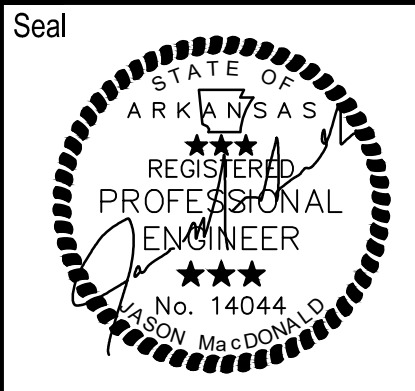
- NOTES:**
1. ALL PROPOSED KETTLES NEED TO BE CONSTRUCTED WITH THE DETAILS PROVIDED ON SHEET C600.
  2. ALL AERATORS SHOWN ARE APPROXIMATE. FINAL LOCATIONS TO BE DETERMINED BY OWNER AND/OR ENGINEER PRIOR TO INSTALLATION.
  3. ALL EXISTING GRAVEL WILL NEED A NEW LIFT OF GRAVEL INSTALLED. SEE DETAILS ON SHEET C800.



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 977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719

Rev.	Date	Revision Description

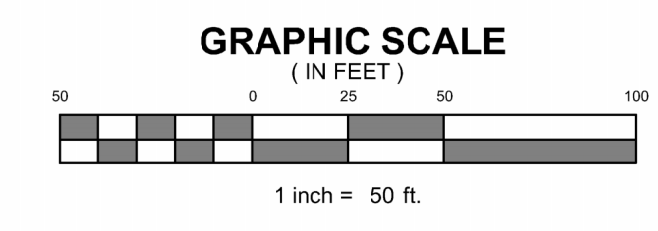
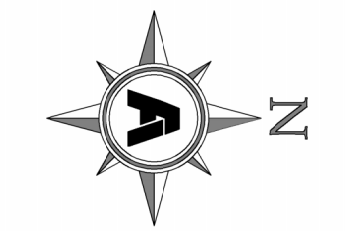
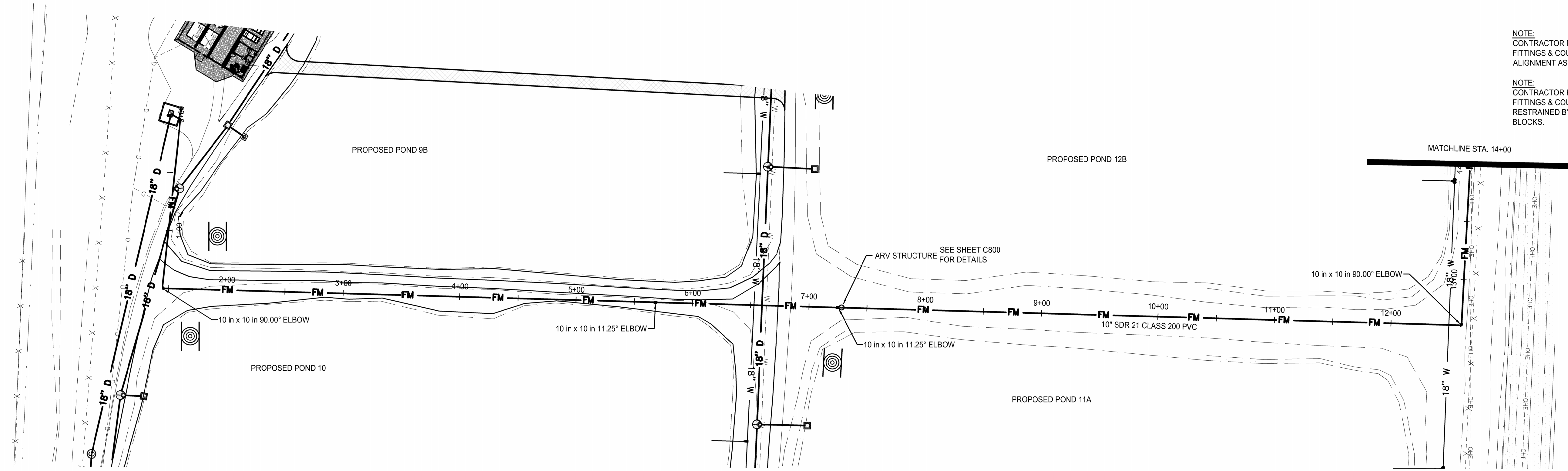


Issue Date: 12/12/24  
 Project No: ARKGAME0003 WR  
 Drawn By: CCC  
 Checked By: JM  
 Sheet Title:

PROPOSED OVERALL SITE PLAN (3 OF 3)

Sheet Number:  
**C303**

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 Project Name: C400 RECIRCULATING PIPE (STA 0+00 - STA 14+00)  
 Layout Name: C400 RECIRCULATING PIPE (STA 0+00 - STA 14+00)  
 Plotted: Monday, December 23, 2024 - 2:09 pm  
 By: jmcDonald



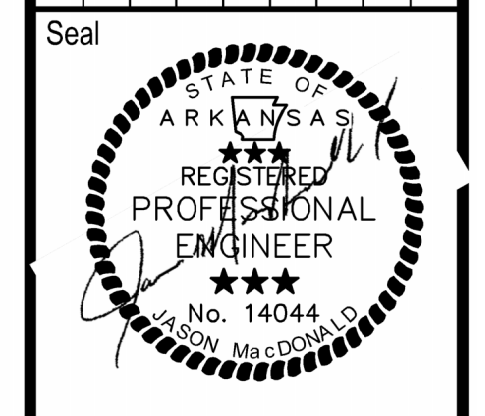
NOTE:  
CONTRACTOR RESPONSIBLE FOR ALL FITTINGS & COUPLINGS TO ATTAIN ALIGNMENT AS SHOWN ON THIS PLAN.

NOTE:  
CONTRACTOR RESPONSIBLE FOR ALL FITTINGS & COUPLINGS TO BE RESTRAINED BY MEGA LUGS AND THRUST BLOCKS.

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**FACILITY UPGRADES AT CHARLIE CRAIG HATCHERY FOR ARKANSAS GAME & FISH**  
 977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719

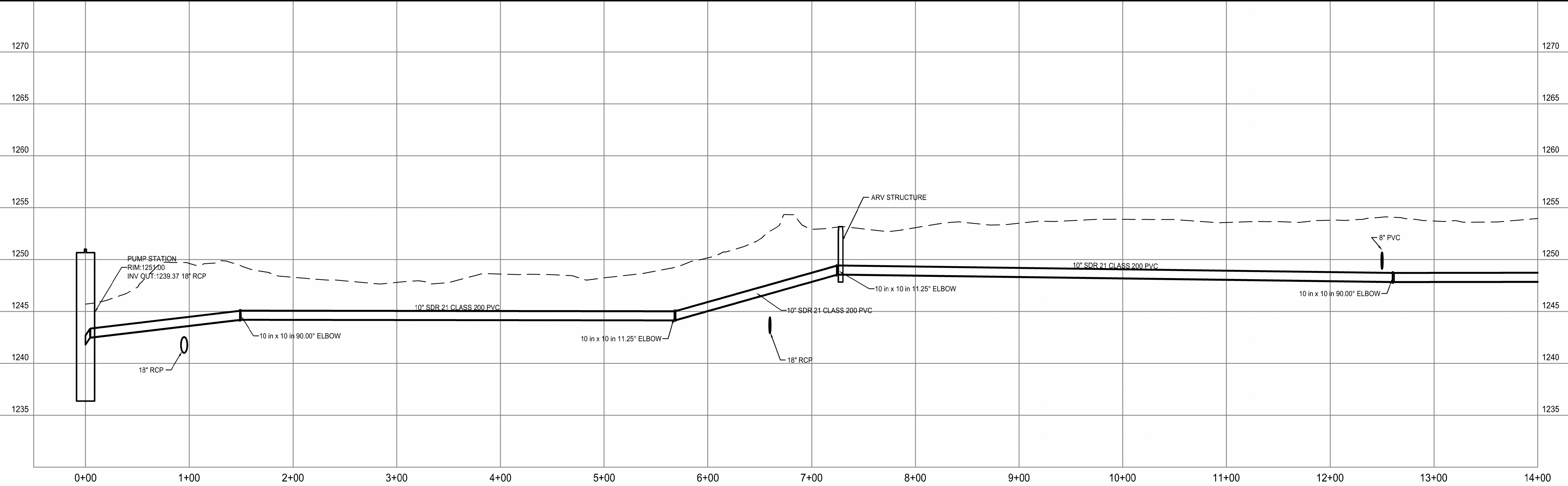
Rev.	Date	Revision Description



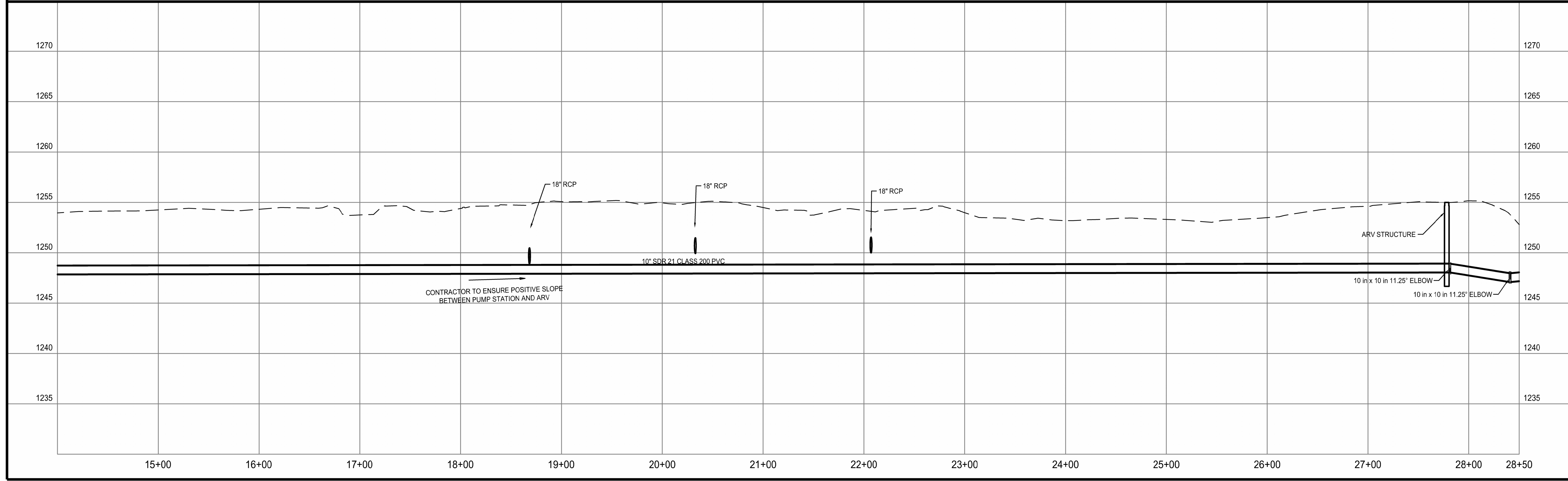
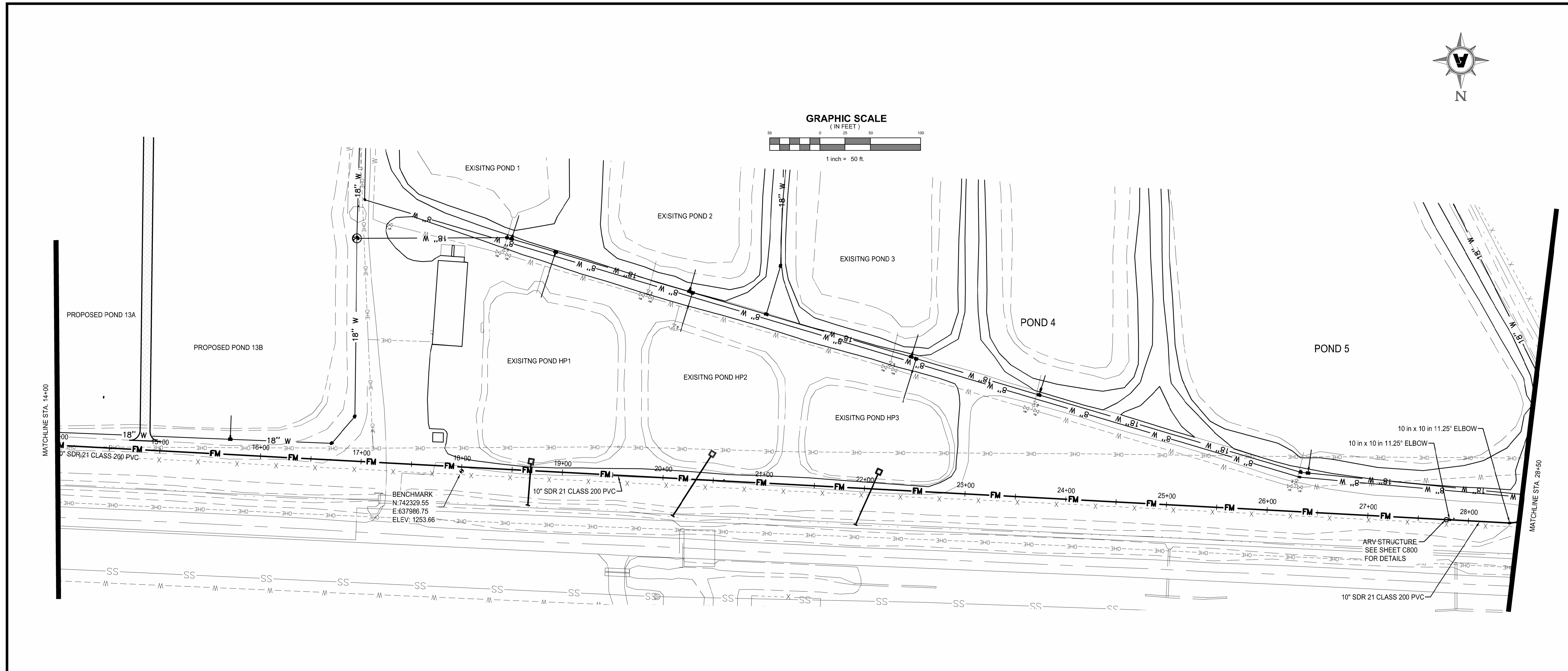
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 Project No: ARKGAME0003 WR  
 Drawn By: CCC  
 Checked By: JM  
 Sheet Title:

RECIRCULATING PIPE (STA 0+00 - STA 14+00)

Sheet Number:  
**C400**



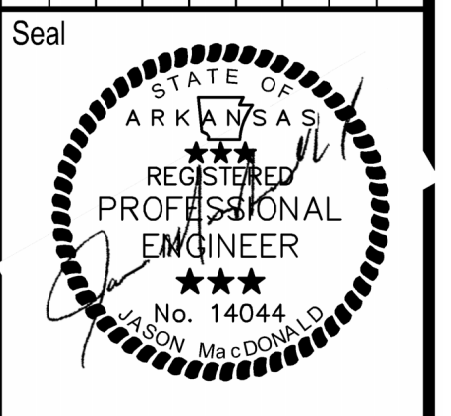
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 Layout Name: E003 RECIRCULATING PIPE (STA 14+00 - STA 28+50)  
 Plotted: Monday, December 23, 2024 - 2:11 pm  
 By: jmacdonald



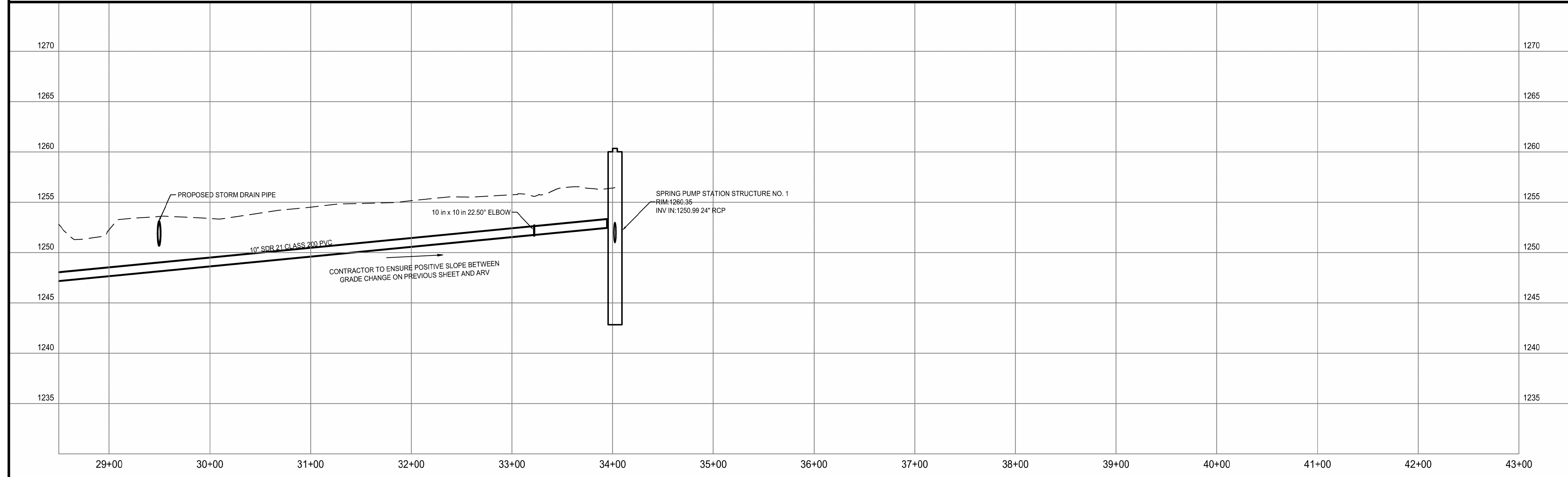
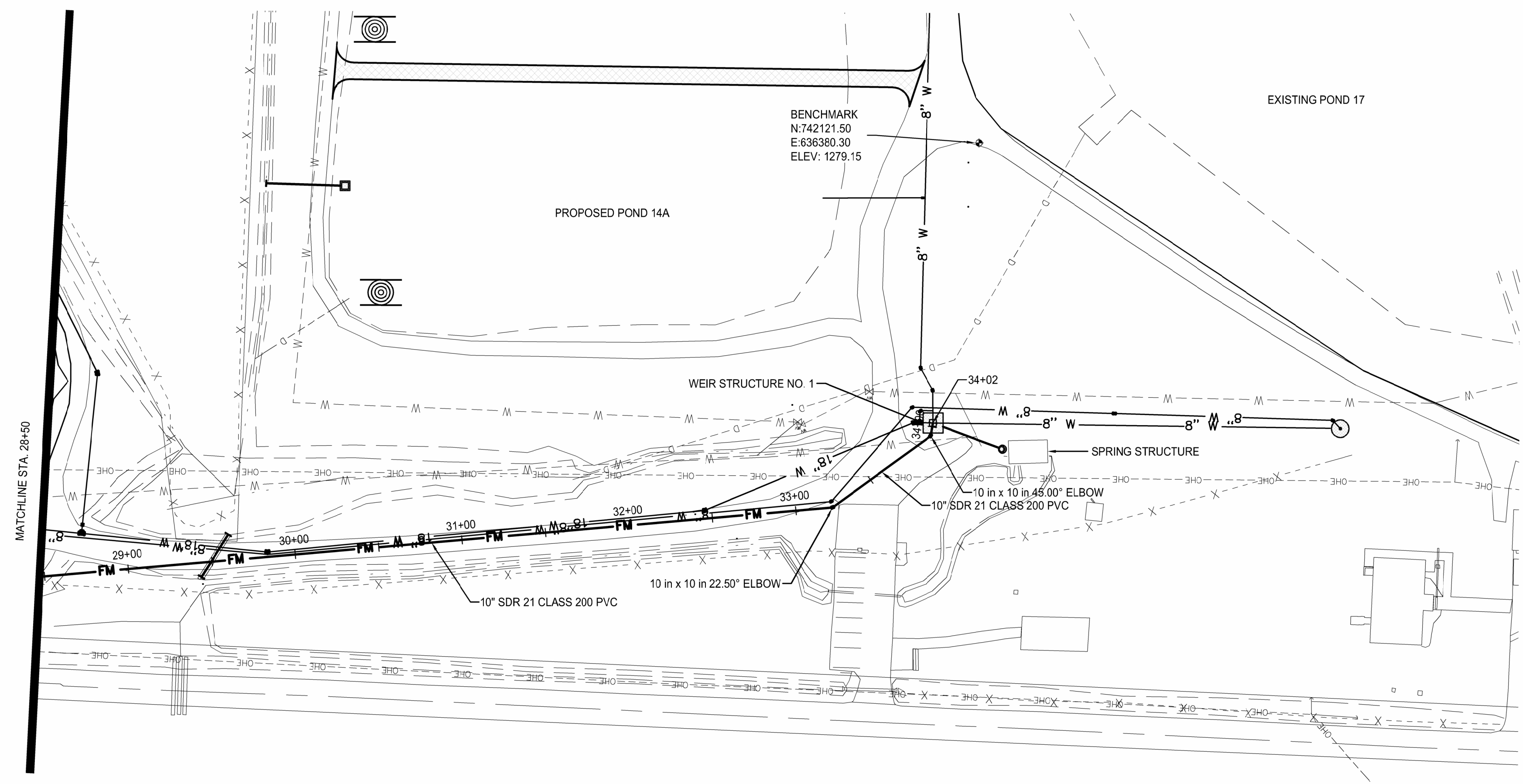
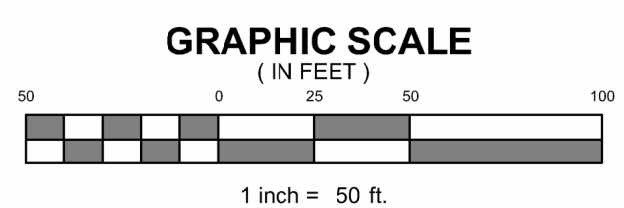
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 CHARLIE CRAIG HATCHERY FOR  
 ARKANSAS GAME & FISH  
 977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719**

Rev.	Date	Revision Description

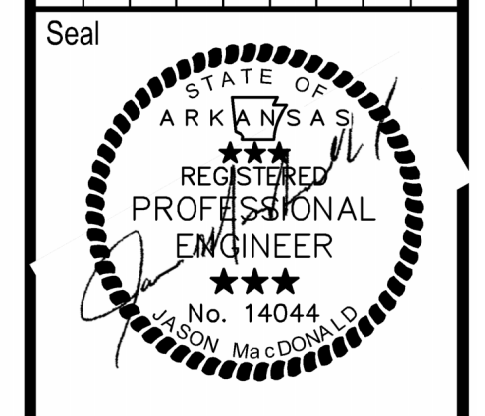


Issue Date:  
 Project No: ARKGAME0003 WR  
 Drawn By: CCC  
 Checked By: JM  
 Sheet Title:  
**RECIRCULATING  
 PIPE (STA 14+00 -  
 STA 28+50)**  
 Sheet Number:  
**C401**



**FACILITY UPGRADES AT  
CHARLIE CRAIG HATCHERY FOR  
ARKANSAS GAME & FISH**  
977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719

Rev.	Date	Revision Description

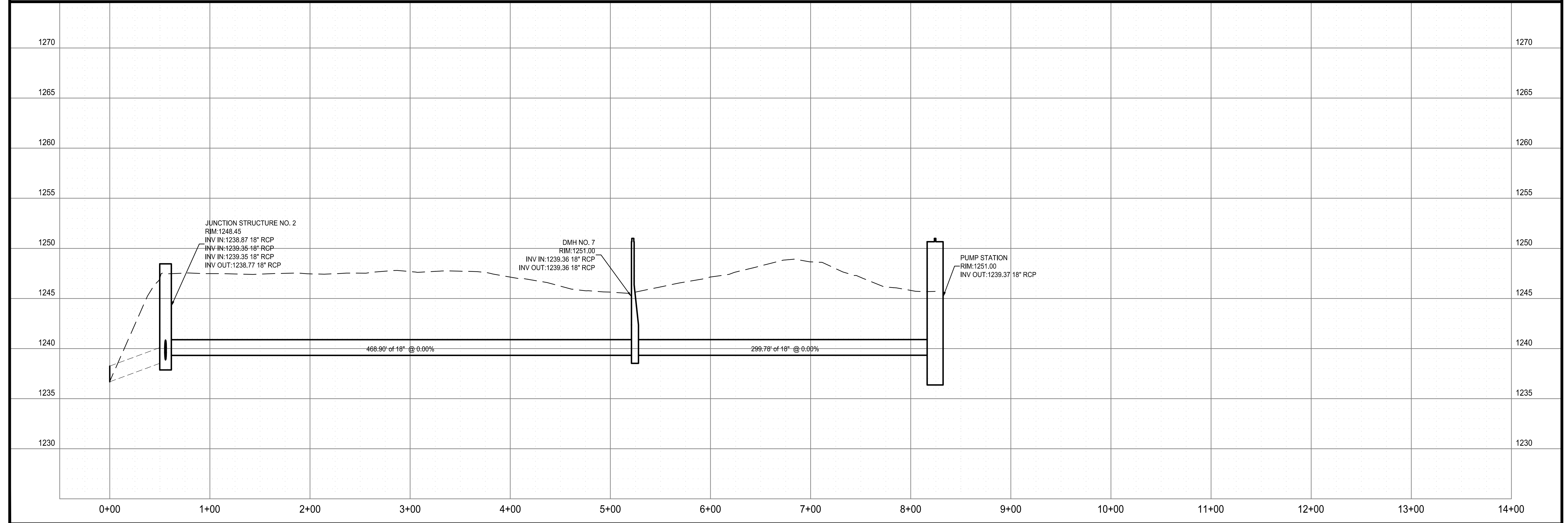
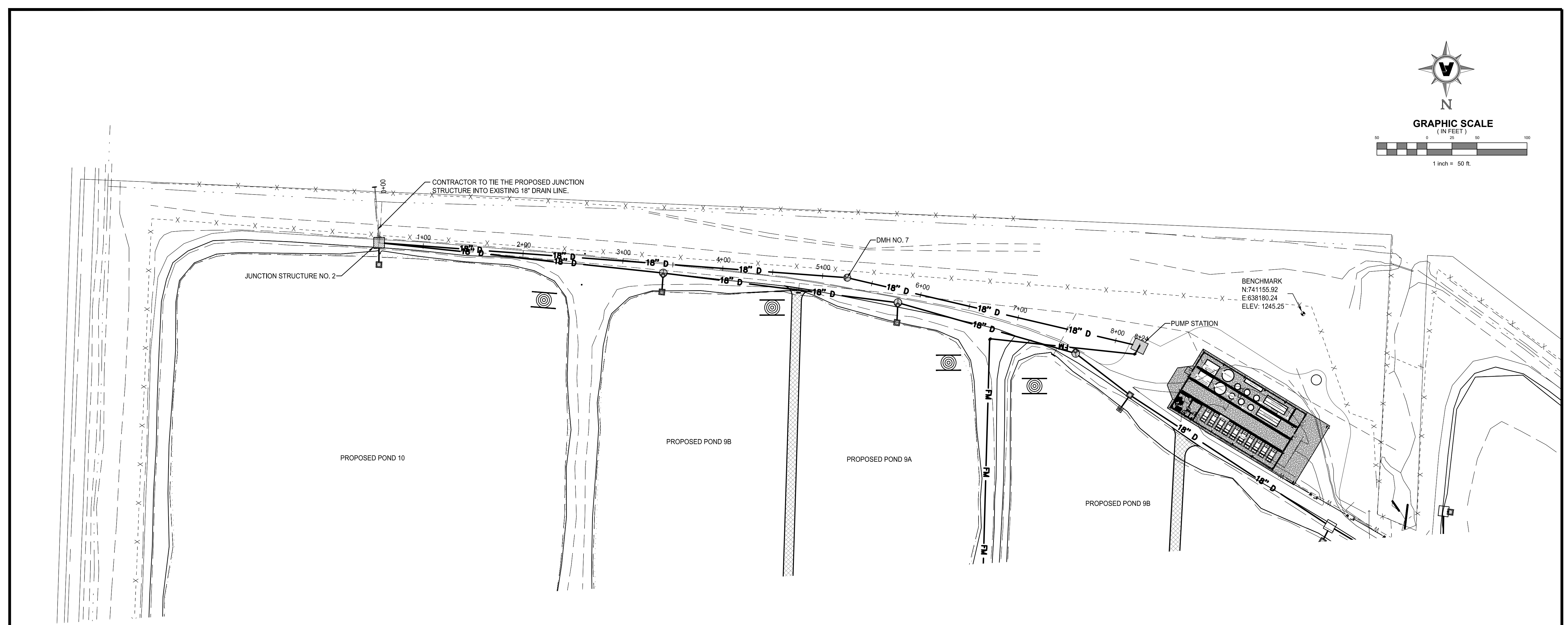
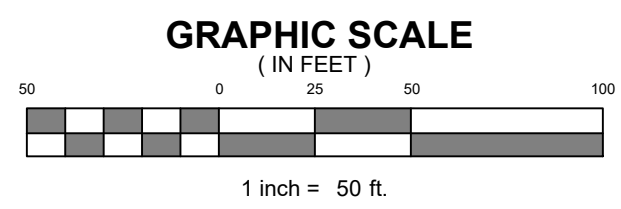


Issue Date:  
Project No: ARKGAMEF.0003 WR  
Drawn By: CCC  
Checked By: JM  
Sheet Title:  
**RECIRCULATING  
PIPE ( STA 28+50 -  
STA 43+00)**  
Sheet Number:  
**C402**

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 Project Name: ARKGAMEF.0003 WR  
 Layout Name: C402 RECIRCULATING PIPE ( STA 28+50 - STA 43+00)  
 Plotted: Monday, December 23, 2024 - 2:13 pm  
 By: jmacdonald

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Location: N:\Projects\WORK\AR\GAME0003WR\CAD\Plans\HATCHERY PUMP STATION PIPE.dwg  
Layout Name: C403 HATCHERY BUILDING POND SUPPLY PIPE (STA 0+00 - STA 14+00)  
Plotted: Wednesday, December 25, 2024 - 1:45 pm  
By: jmacdonald

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**FACILITY UPGRADES AT  
CHARLIE CRAIG HATCHERY FOR  
ARKANSAS GAME & FISH**  
977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719

Rev.	Date	Revision Description

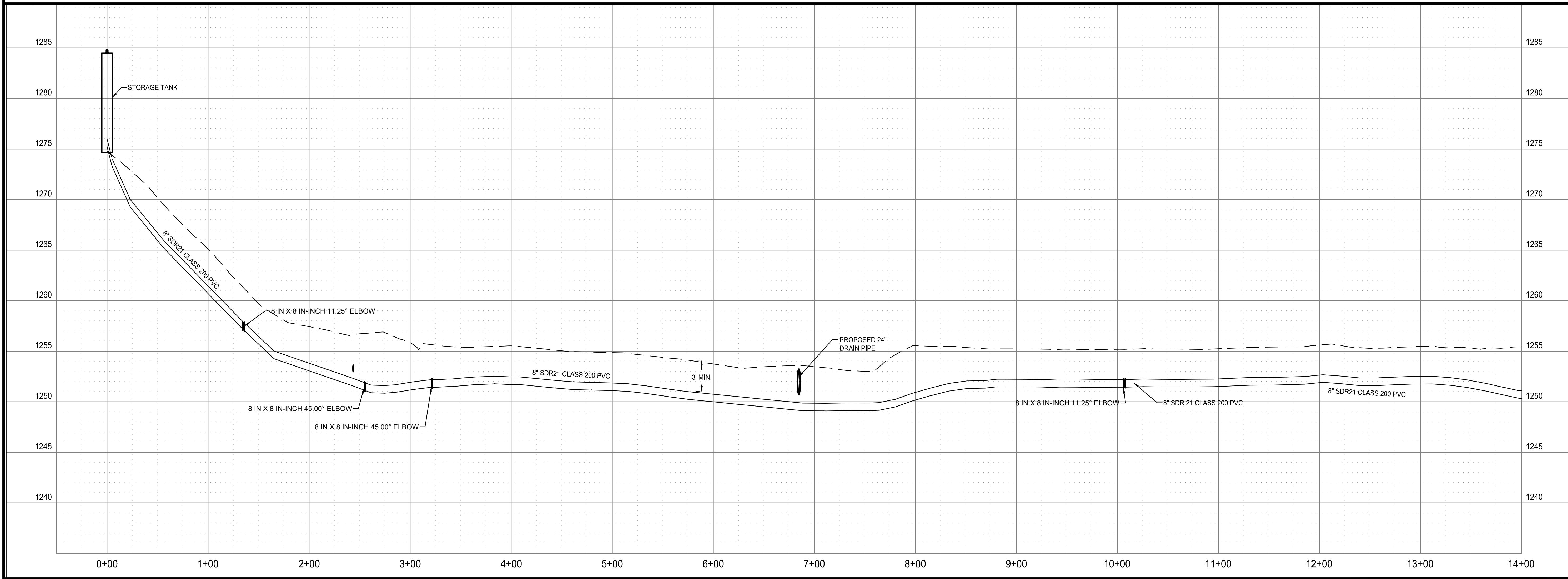
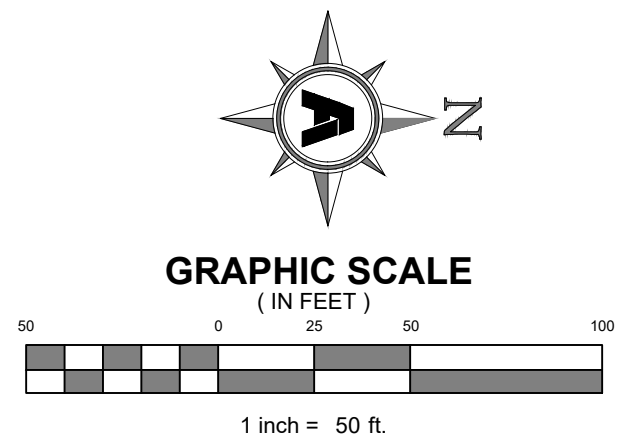
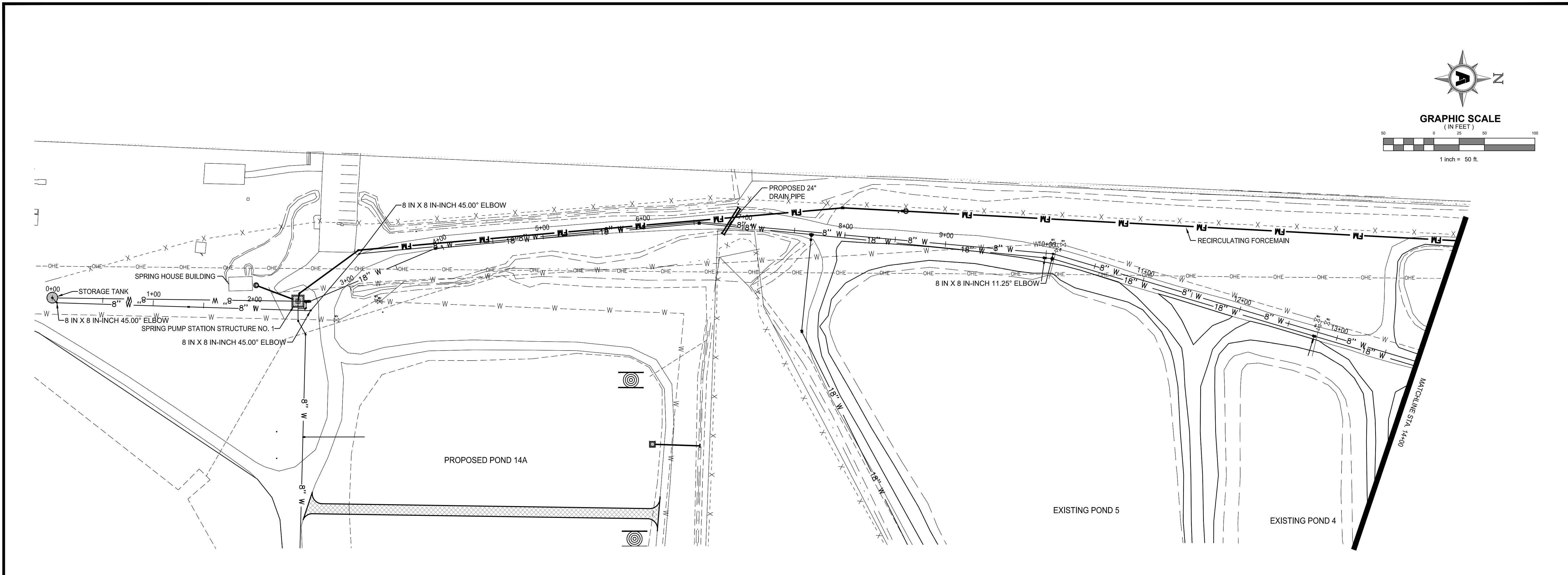


Issue Date:  
Project No: ARKGAMEF.0003 WR  
Drawn By: CCC  
Checked By: JM

Sheet Title:  
**HATCHERY  
BUILDING POND  
SUPPLY PIPE (STA  
0+00 - STA 14+00)**

Sheet Number:  
**C403**

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 Project Name: E404 HATCHERY BUILDING SUPPLY PIPE (STA 0+00- STA 14+00)  
 Plotted: Monday, December 23, 2024 - 2:36 pm  
 By: jmacdonald



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**FACILITY UPGRADES AT  
 CHARLIE CRAIG HATCHERY FOR  
 ARKANSAS GAME & FISH**  
 977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719

Rev.	Date	Revision Description

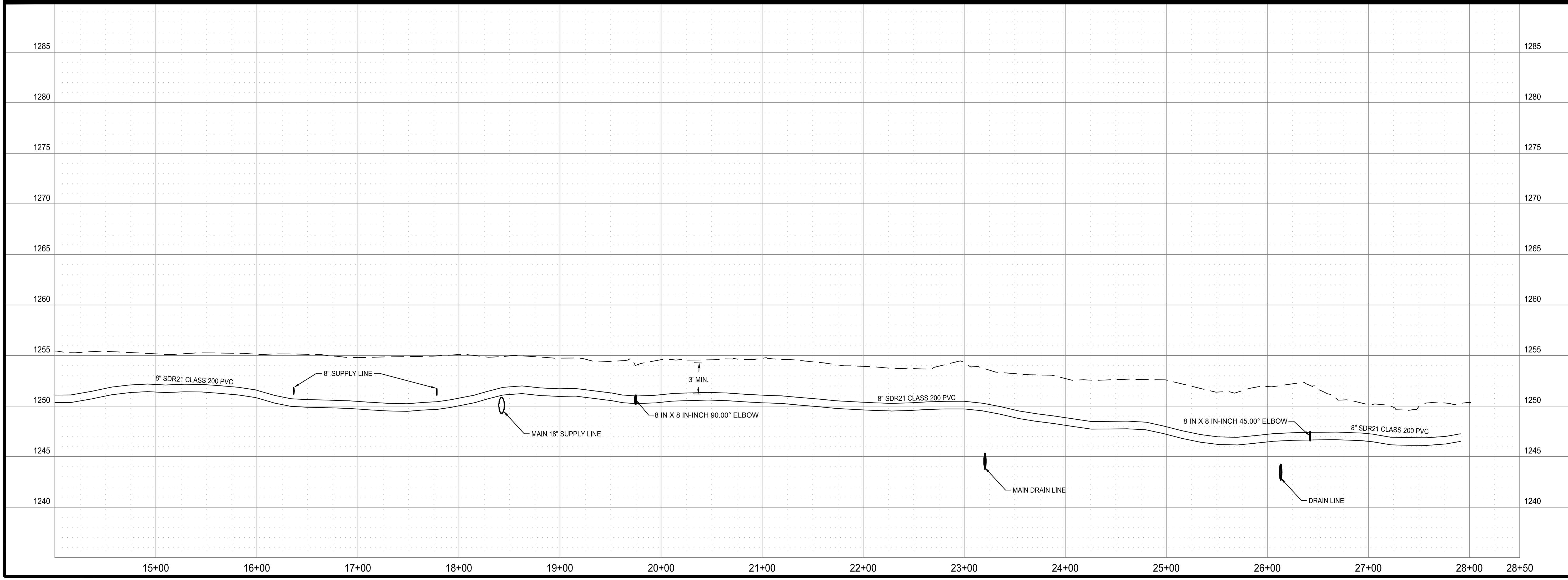
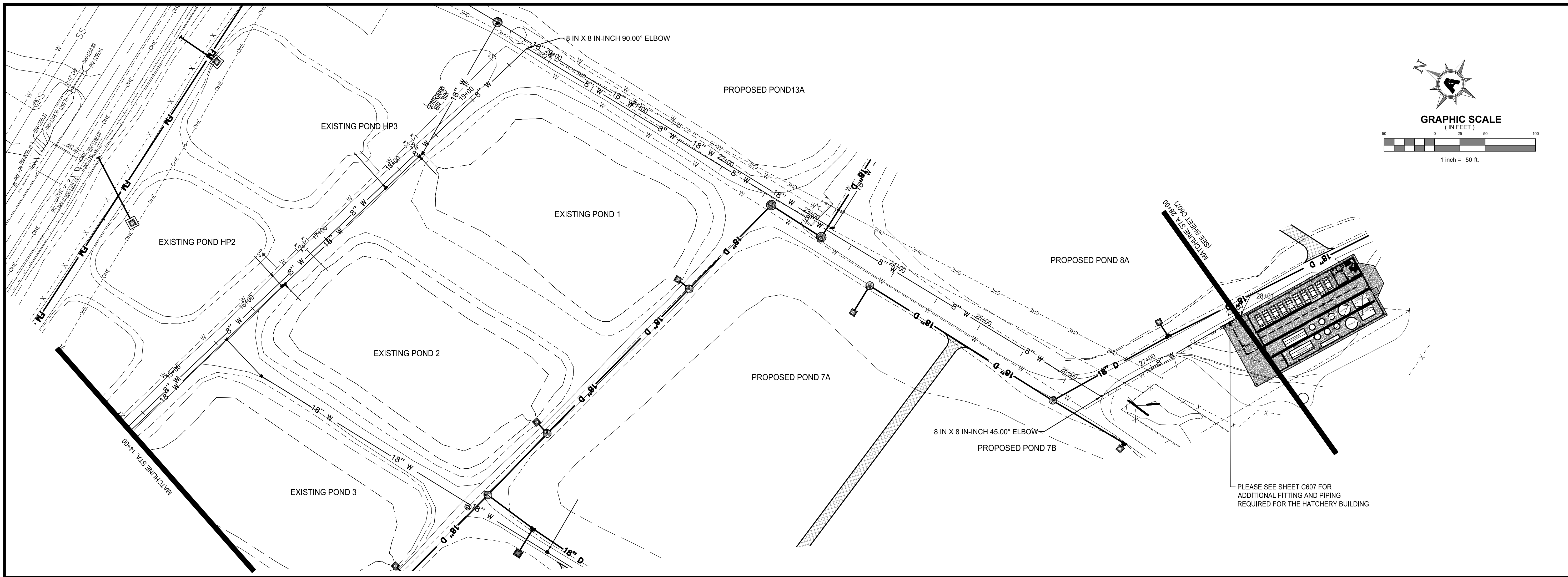


Issue Date:  
 Project No: ARKGAMEF.0003 WR  
 Drawn By: CCC  
 Checked By: JM  
 Sheet Title:

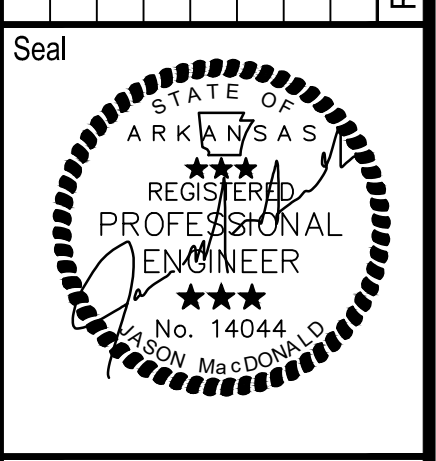
HATCHERY  
 BUILDING SUPPLY  
 PIPE (STA 0+00-  
 STA 14+00)

Sheet Number:  
**C404**

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 Layout Name: C405 HATCHERY BUILDING SUPPLY PIPE (STA 14+00- STA 28+50)  
 Plotted: Monday, December 23, 2024 2:52 pm  
 By: jmacdonald



Rev.	Date	Revision Description

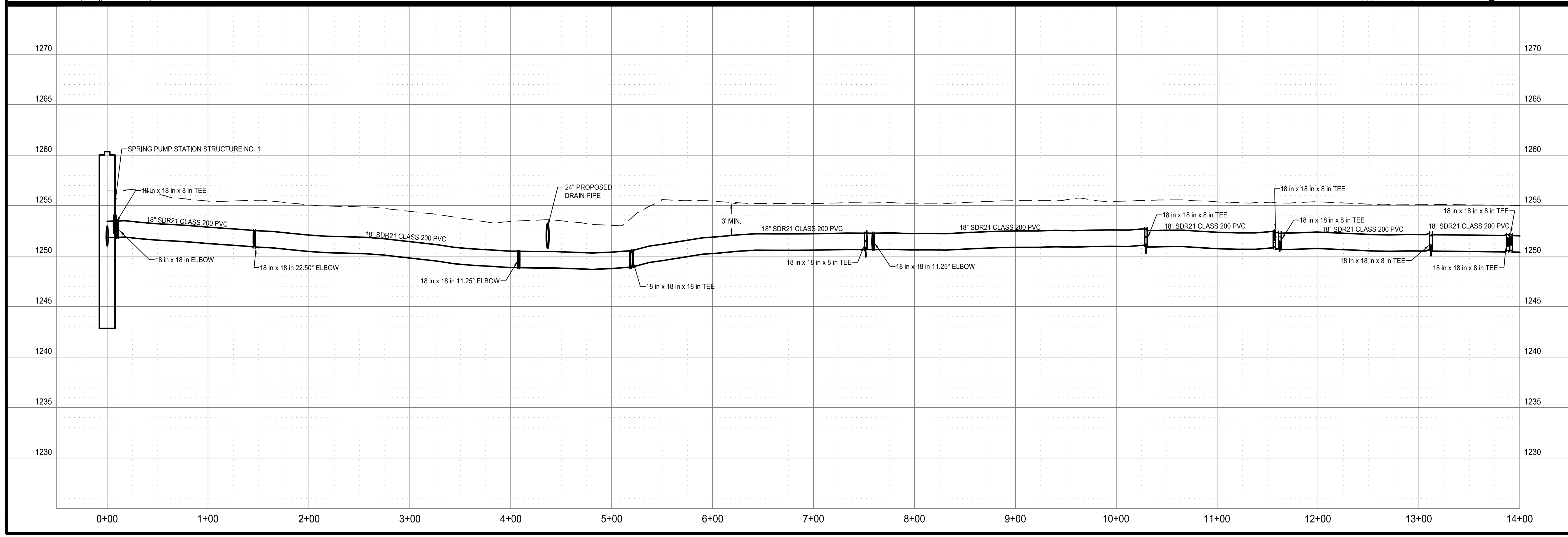
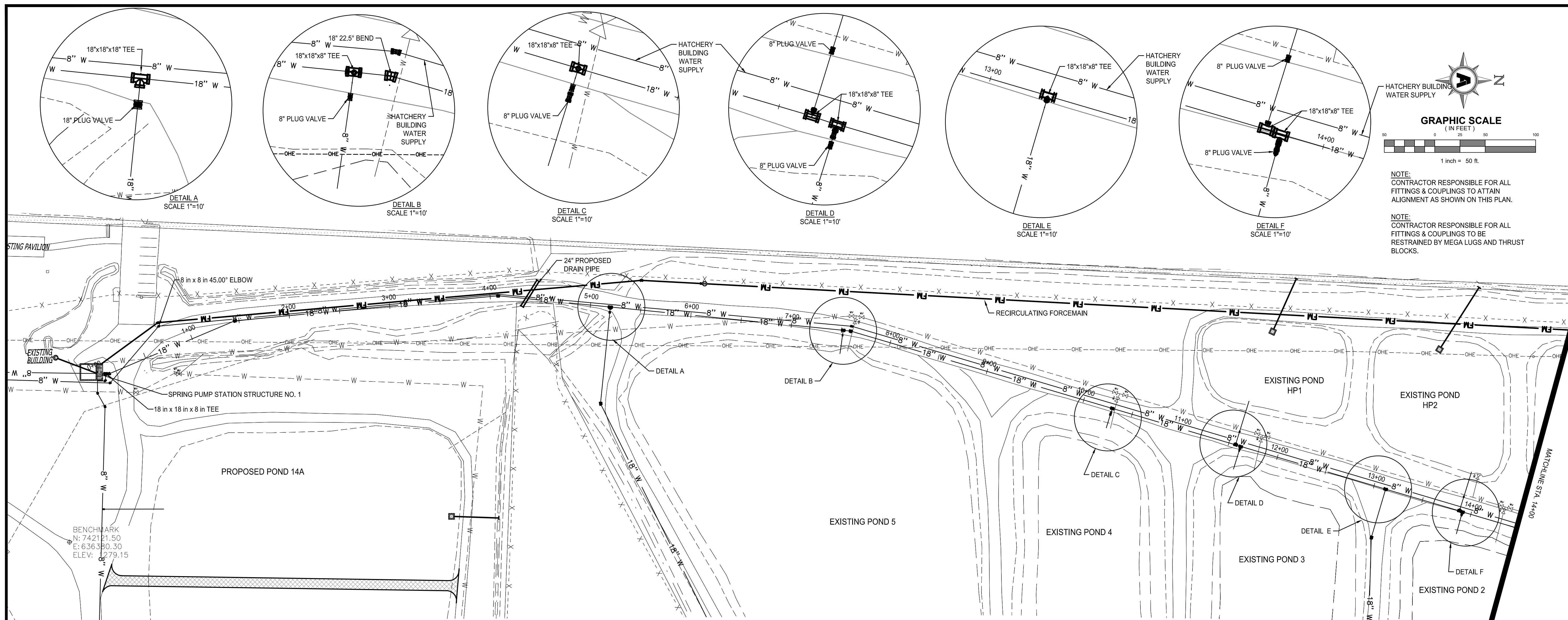


Issue Date:  
 Project No: ARKGAME0003 WR  
 Drawn By: CCC  
 Checked By: JM

Sheet Title:  
**HATCHERY  
 BUILDING SUPPLY  
 PIPE (STA 14+00-  
 STA 28+50)**

Sheet Number:  
**C405**

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 Location: C:\Users\jmacdonald\OneDrive\Desktop\WORK\ARKGAME003\WR\CAD\Plans\C413 POND 19\_20 SUPPLY LINE.dwg  
 Layout Name: C406 MAIN SUPPLY LINE (STA 0+00 - STA 14+00)  
 Plotted: Monday, December 23, 2024 - 3:36 pm  
 By: jmacdonald



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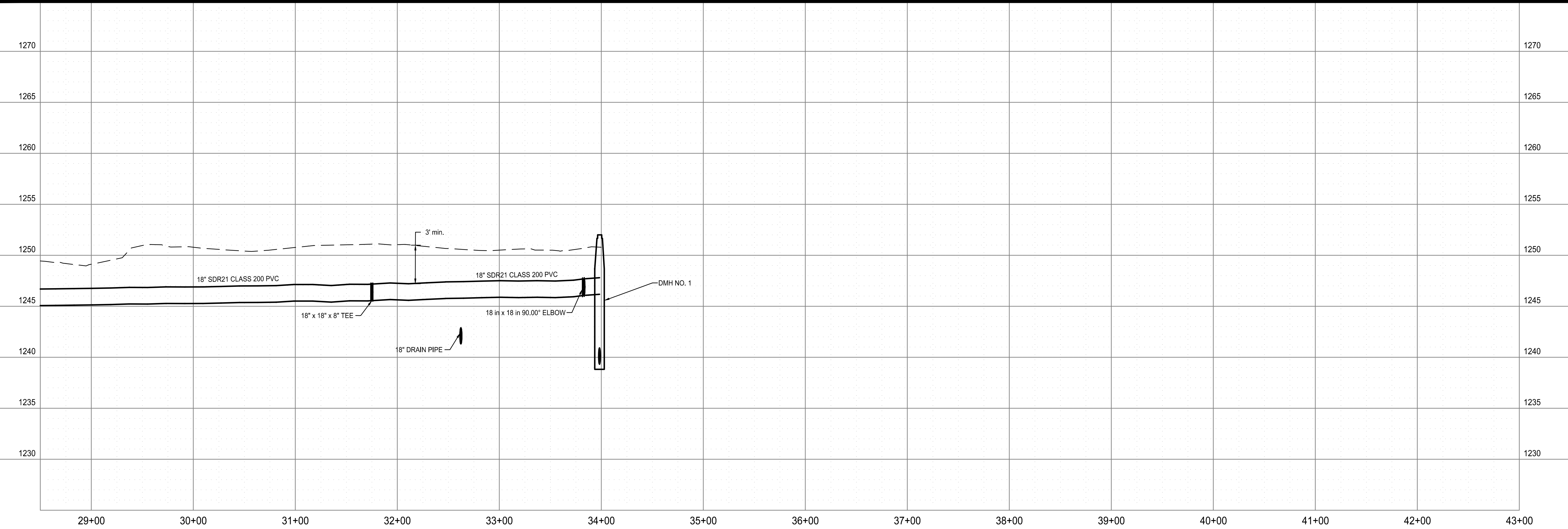
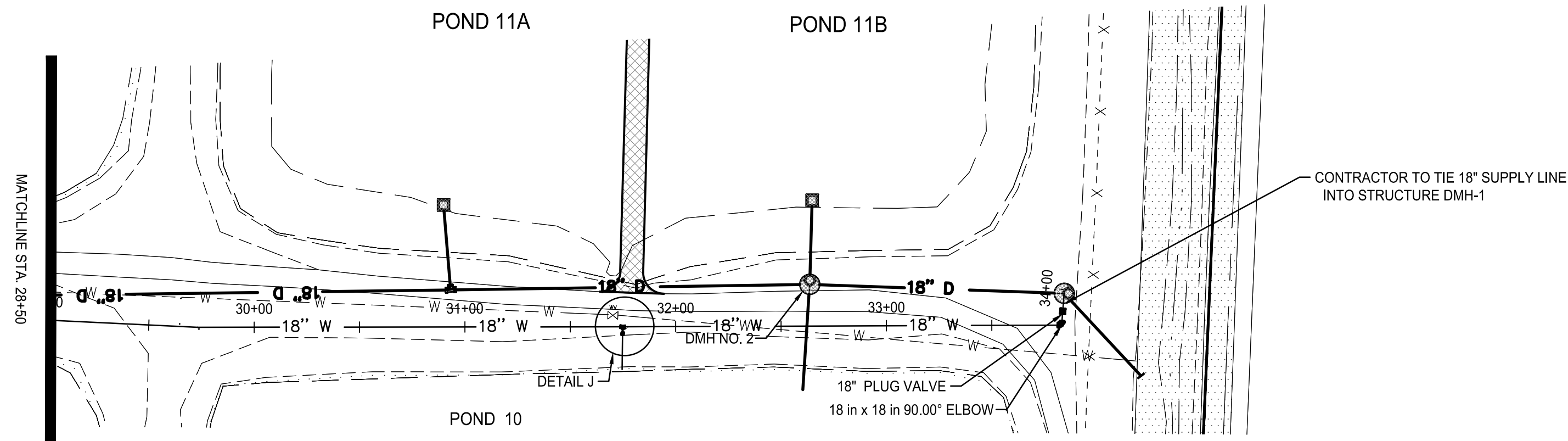
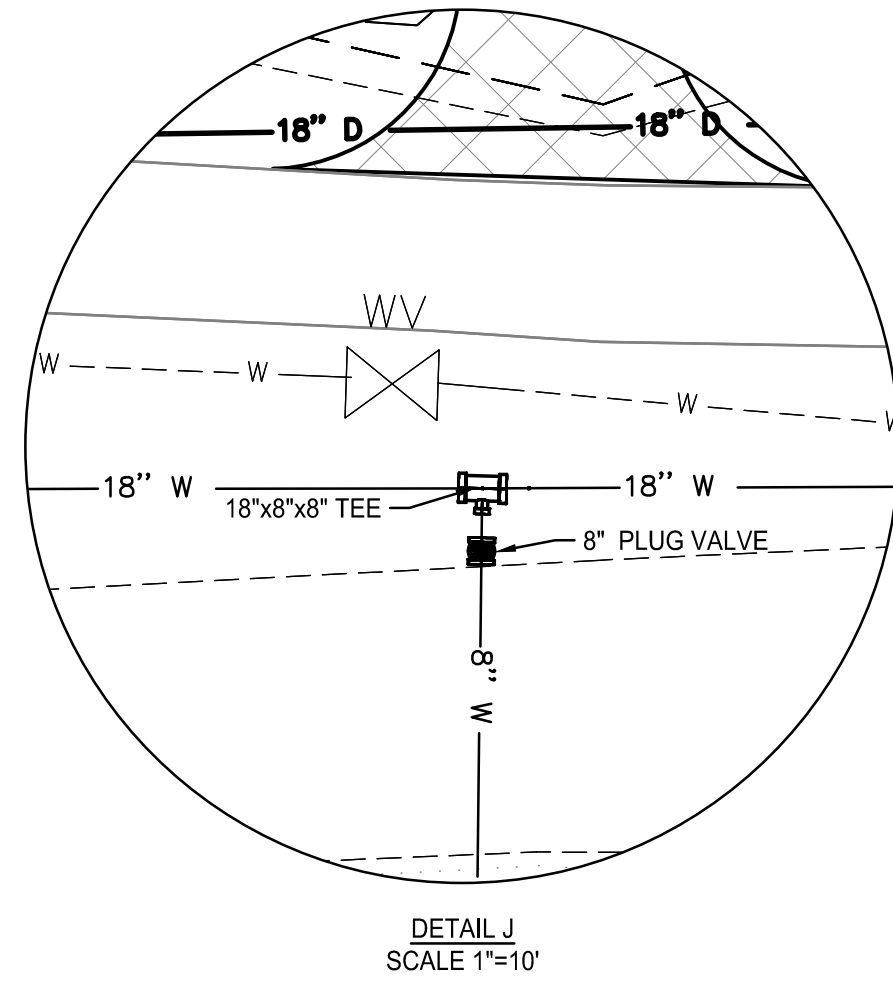
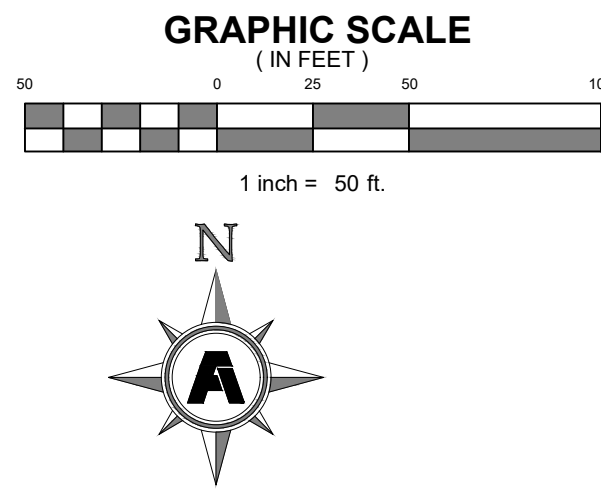
**FACILITY UPGRADES AT  
 CHARLIE CRAIG HATCHERY FOR  
 ARKANSAS GAME & FISH**  
 977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719

Rev.	Date	Revision Description



Issue Date:  
 Project No: ARKGAME003 WR  
 Drawn By: CCC  
 Checked By: JM  
 Sheet Title:  
**MAIN SUPPLY LINE  
 (STA 0+00 - STA  
 14+00)**  
 Sheet Number:  
**C406**





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 Location: \\C:\Users\jmacdonald\OneDrive\Work\ARKGAME003WR\CAD\Plans\C413 POND 19\_20 SUPPLY LINE.dwg  
 Plotted: Monday, December 23, 2024 - 4:36 pm  
 By: jmacdonald

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 ARKANSAS GAME & FISH**  
 977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719

Rev.	Date	Revision Description

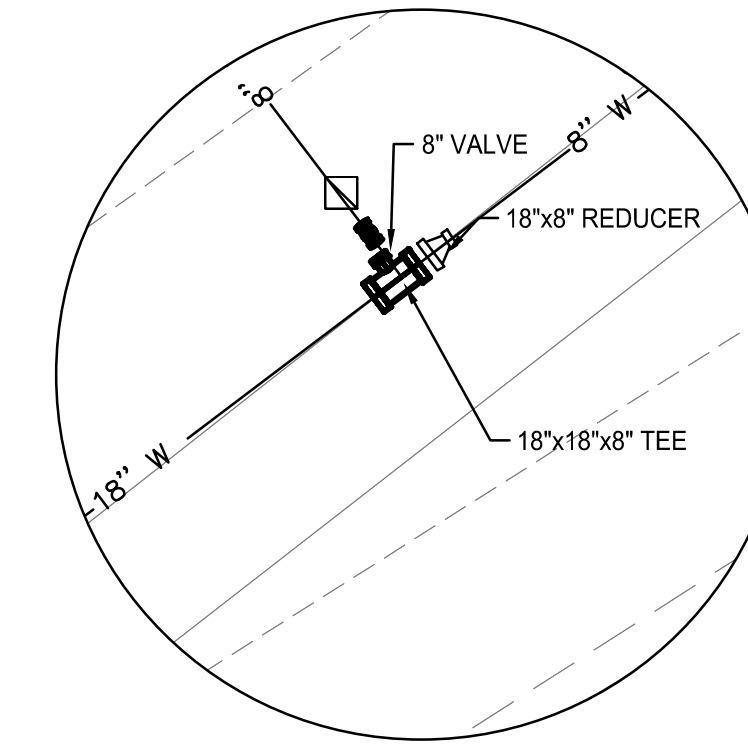
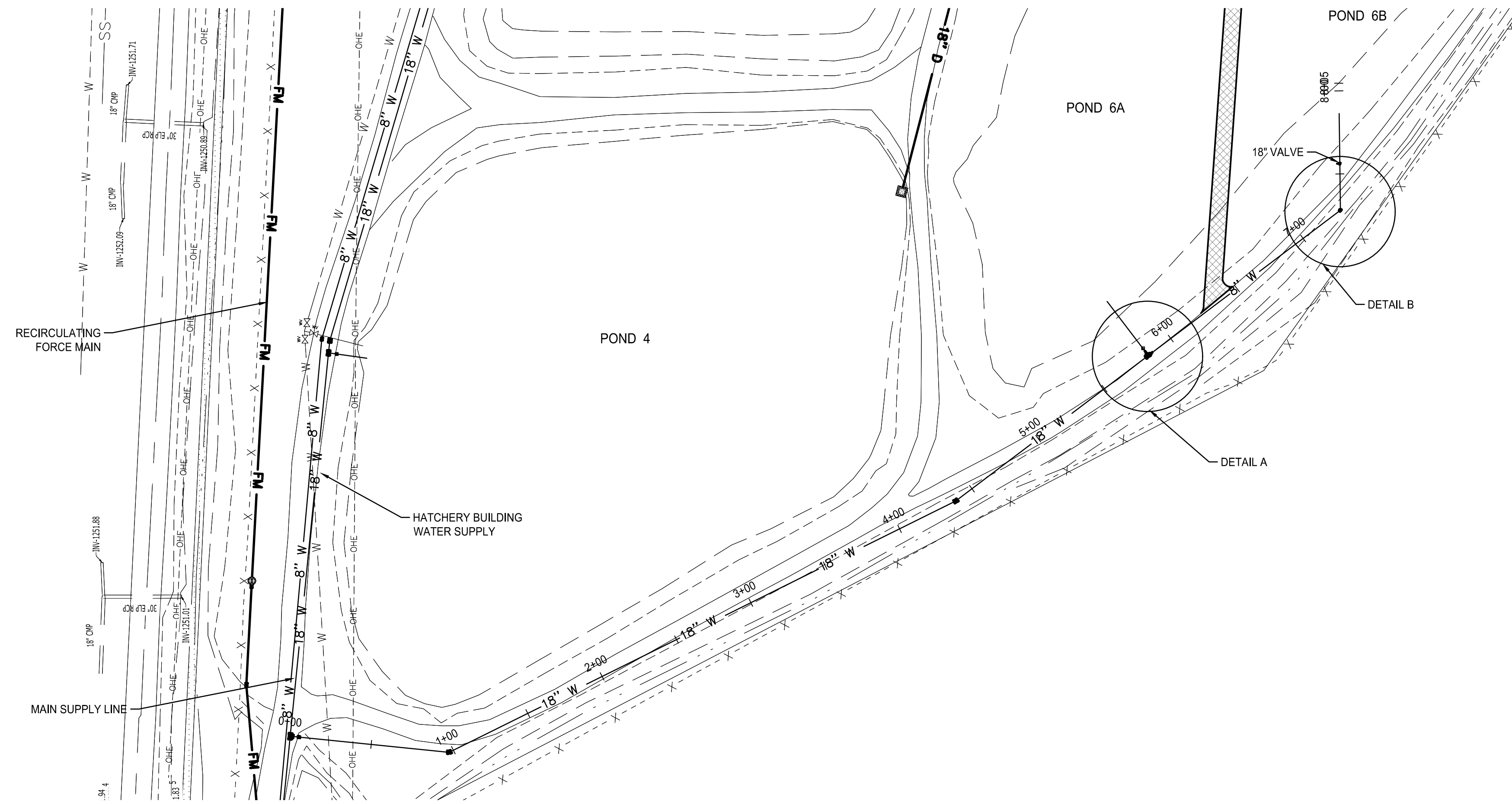


Issue Date:  
 Project No: ARKGAMEF.0003 WR  
 Drawn By: CCC  
 Checked By: JM

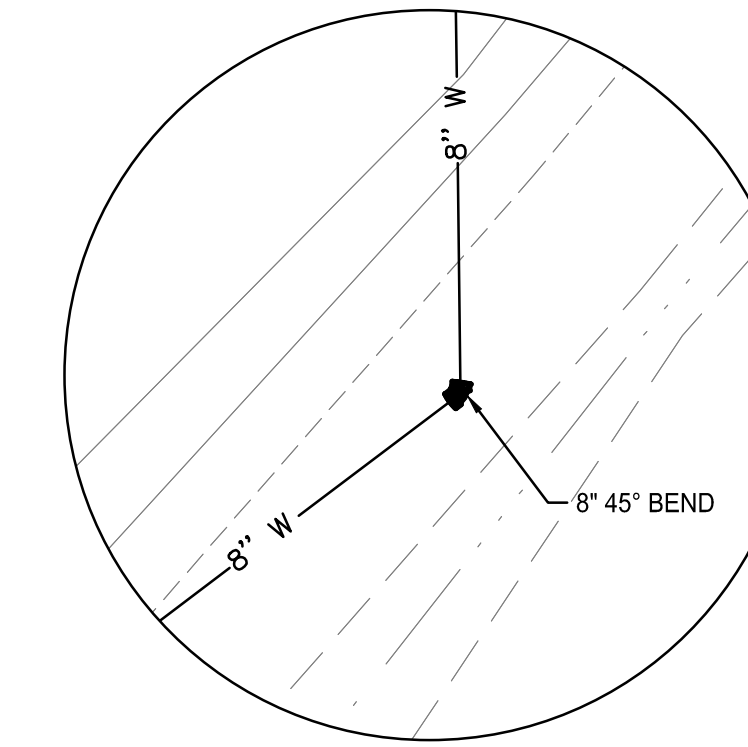
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**MAIN SUPPLY LINE  
 (STA 28+50 - STA  
 34+00)**

Sheet Number:  
**C408**

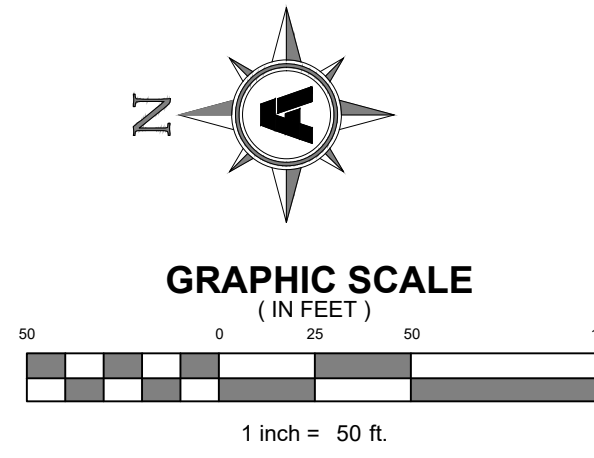
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 Project Name: C409 POND 6A  
 Layout Name: C409 POND 6A  
 Plotted: Monday, December 23, 2024 - 3:21 pm  
 By: jmacdonald



DETAIL A  
SCALE 1"=10'

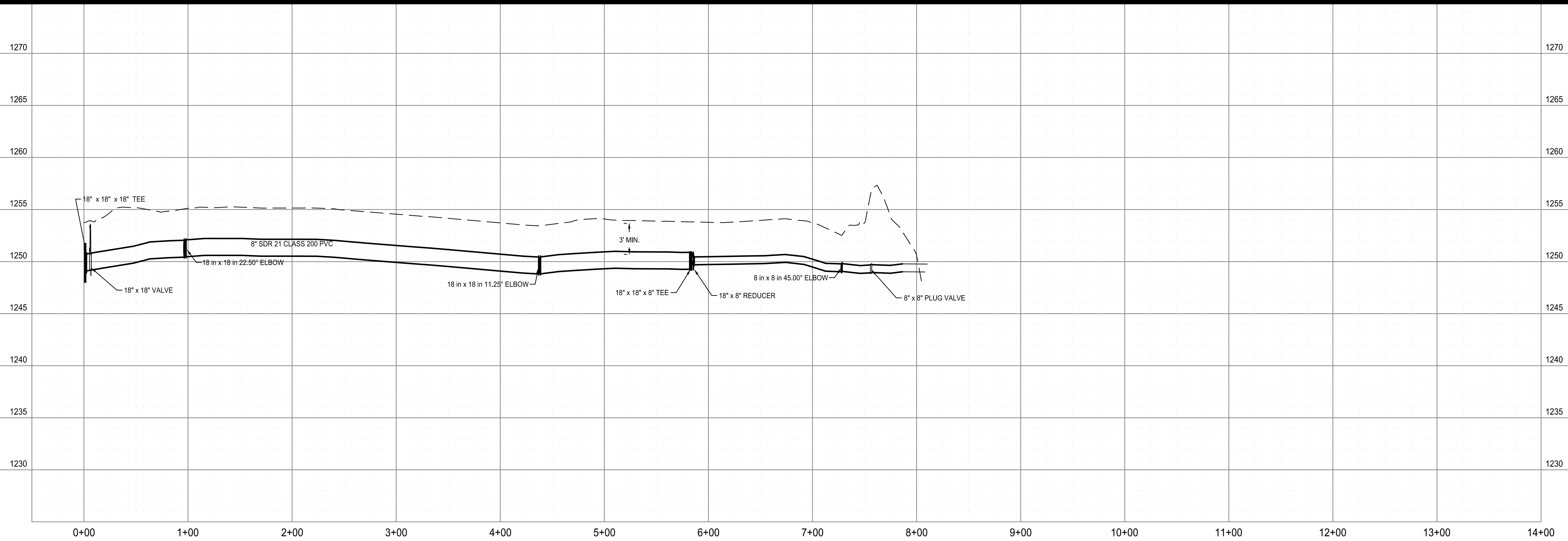


DETAIL B  
SCALE 1"=10'



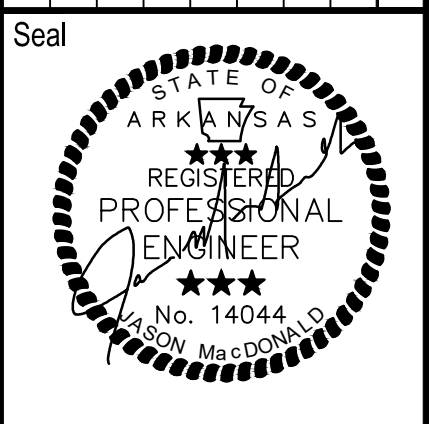
NOTE:  
CONTRACTOR RESPONSIBLE FOR ALL  
FITTINGS & COUPLINGS TO ATTAIN  
ALIGNMENT AS SHOWN ON THIS PLAN.

NOTE:  
CONTRACTOR RESPONSIBLE FOR ALL  
FITTINGS & COUPLINGS TO BE  
RESTRAINED BY MEGA LUGS AND THRUST  
BLOCKS.



**FACILITY UPGRADES AT  
 CHARLIE CRAIG HATCHERY FOR  
 ARKANSAS GAME & FISH  
 977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719**

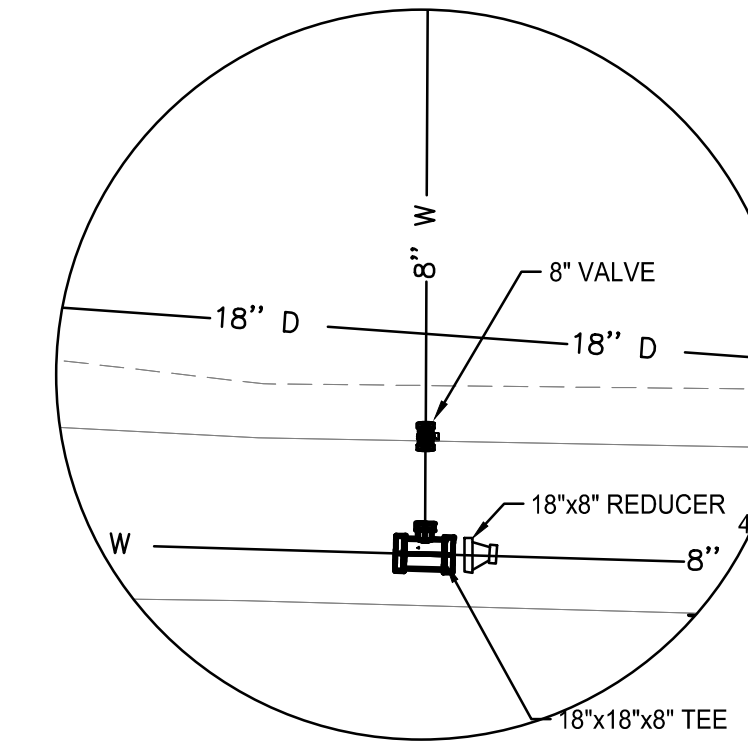
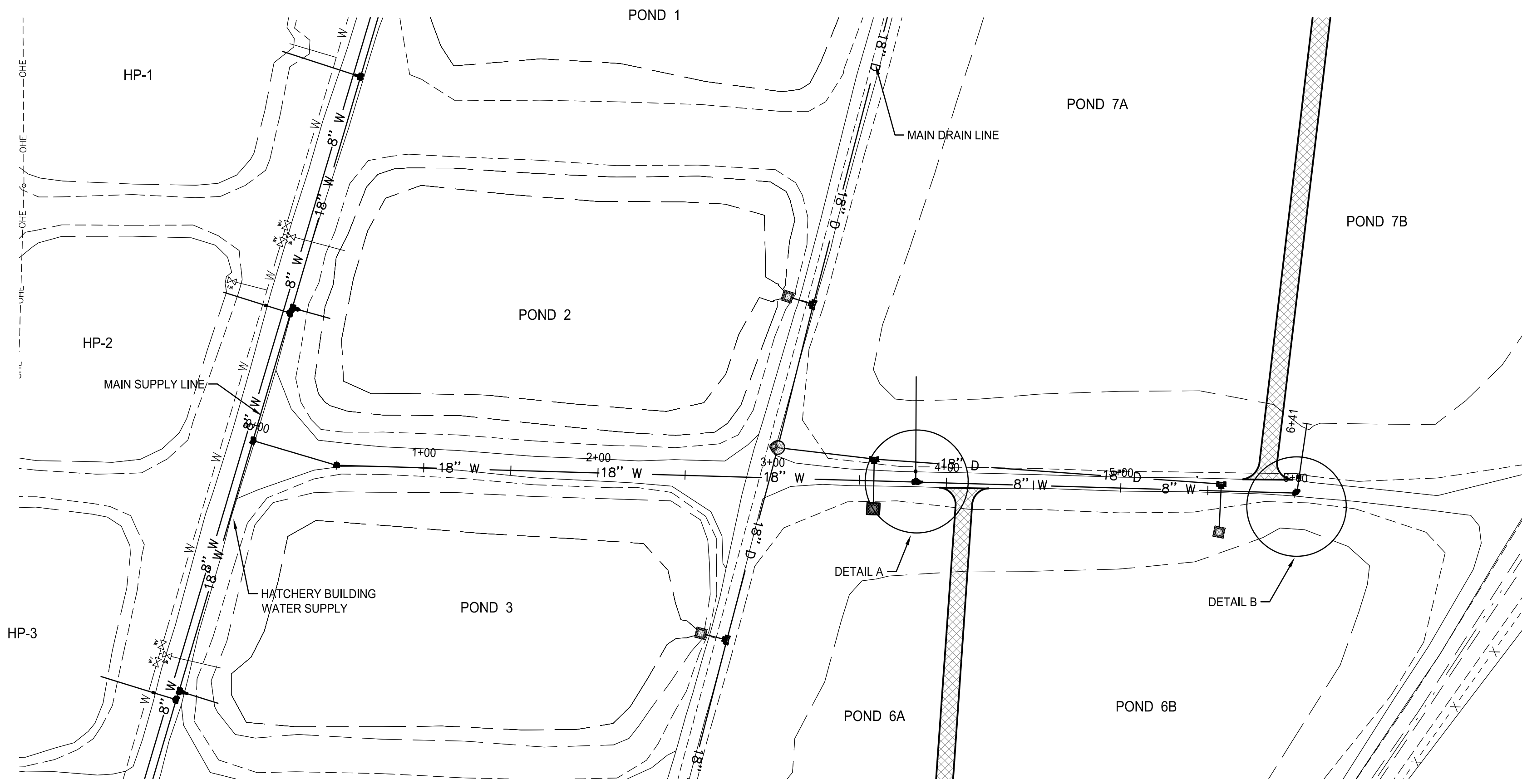
Rev.	Date	Revision Description



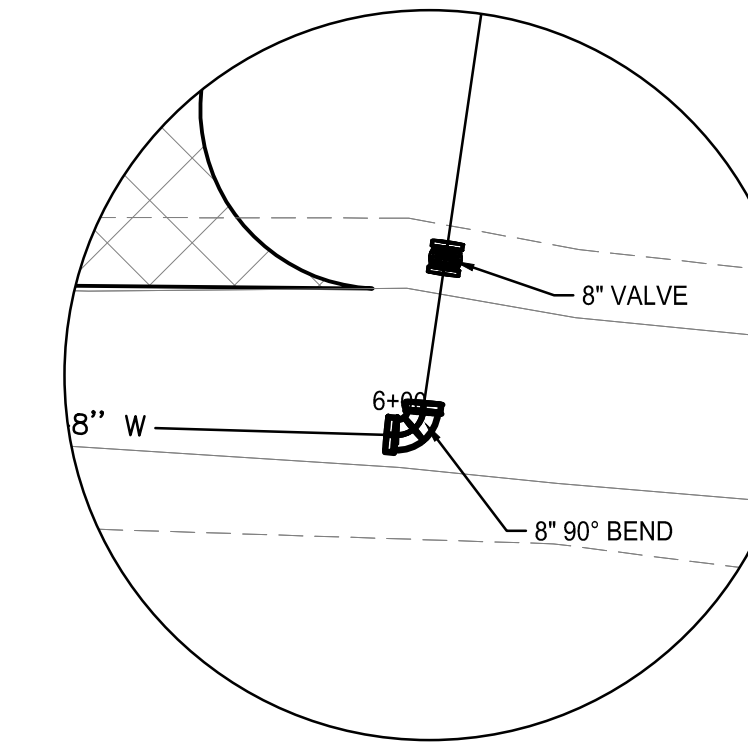
Issue Date:  
 Project No: ARKGAMEF.0003 WR  
 Drawn By: CCC  
 Checked By: JM  
 Sheet Title:

**POND 6A, 6B  
 SUPPLY LINE**

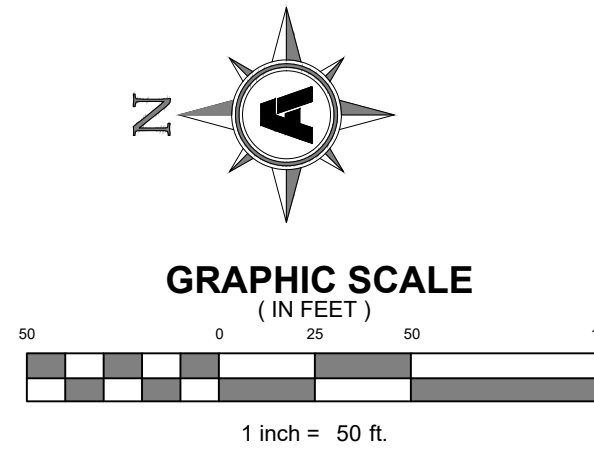
Sheet Number:  
**C409**



DETAIL A  
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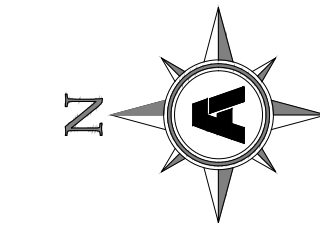


DETAIL B  
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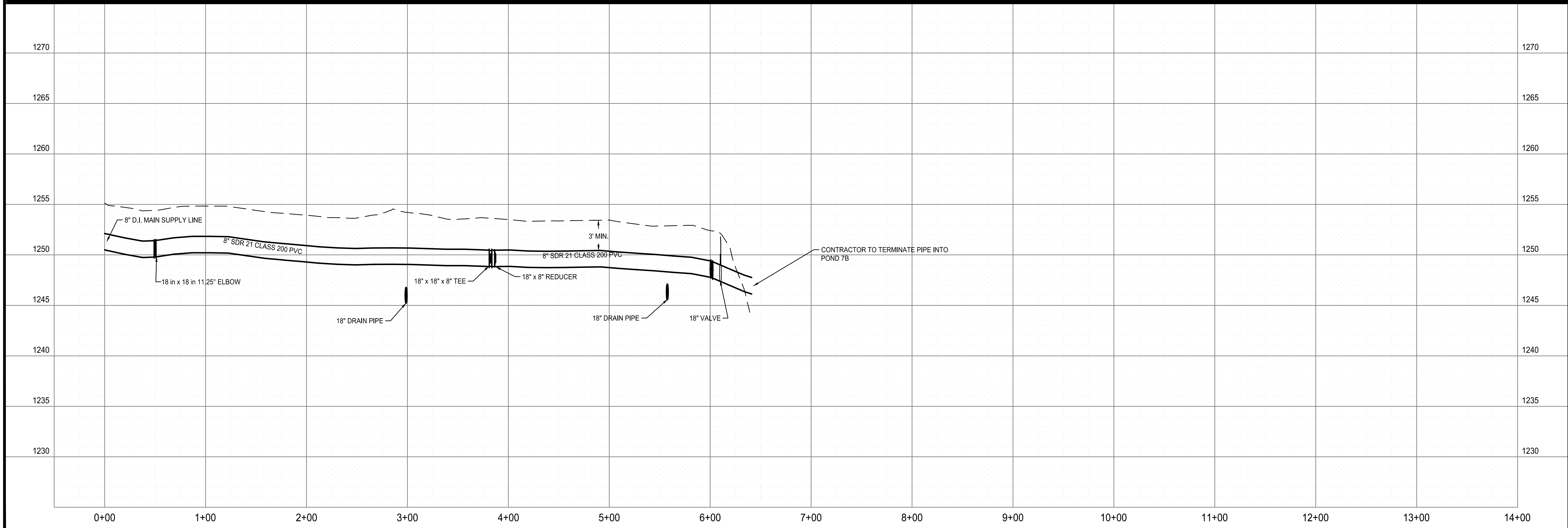


NOTE:  
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 Project: ARKGAME003WR  
 Layout Name: C410\_POND 7A\_7B\_SUPPLY LINE  
 Plotted: Monday, December 23, 2024 - 3:12 pm  
 By: jmacdonald



**FACILITY UPGRADES AT  
 CHARLIE CRAIG HATCHERY FOR  
 ARKANSAS GAME & FISH**  
 977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719

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Rev.	Date	Revision Description

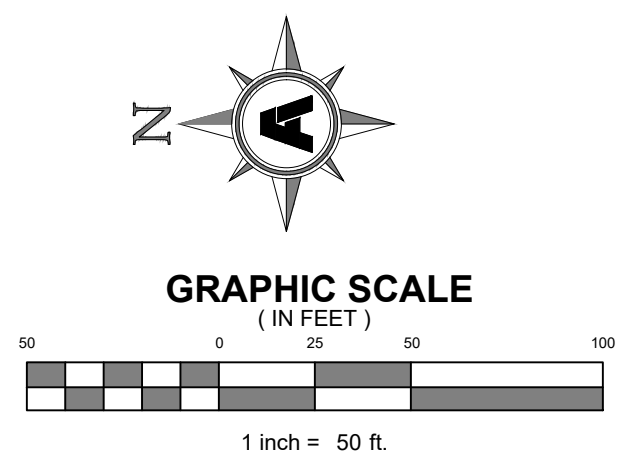
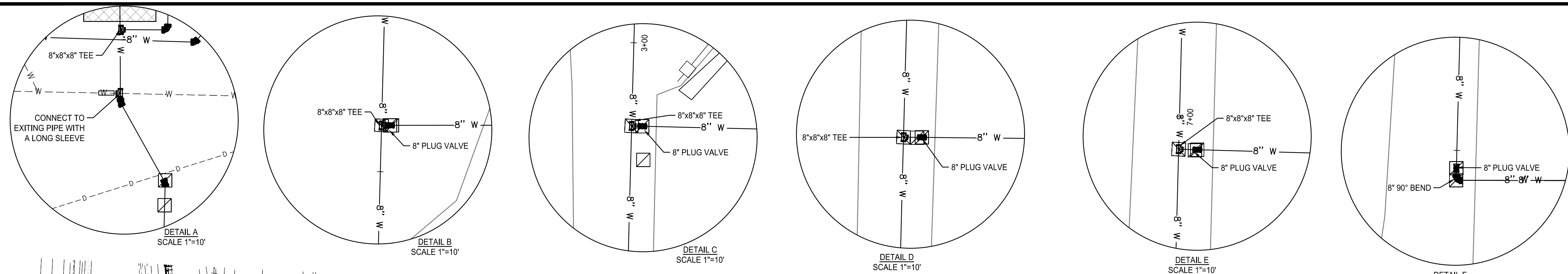


Issue Date:  
 Project No: ARKGAMEF.0003 WR  
 Drawn By: CCC  
 Checked By: JM  
 Sheet Title:

POND 7A, 7B  
 SUPPLY LINE  
 Sheet Number:  
**C410**

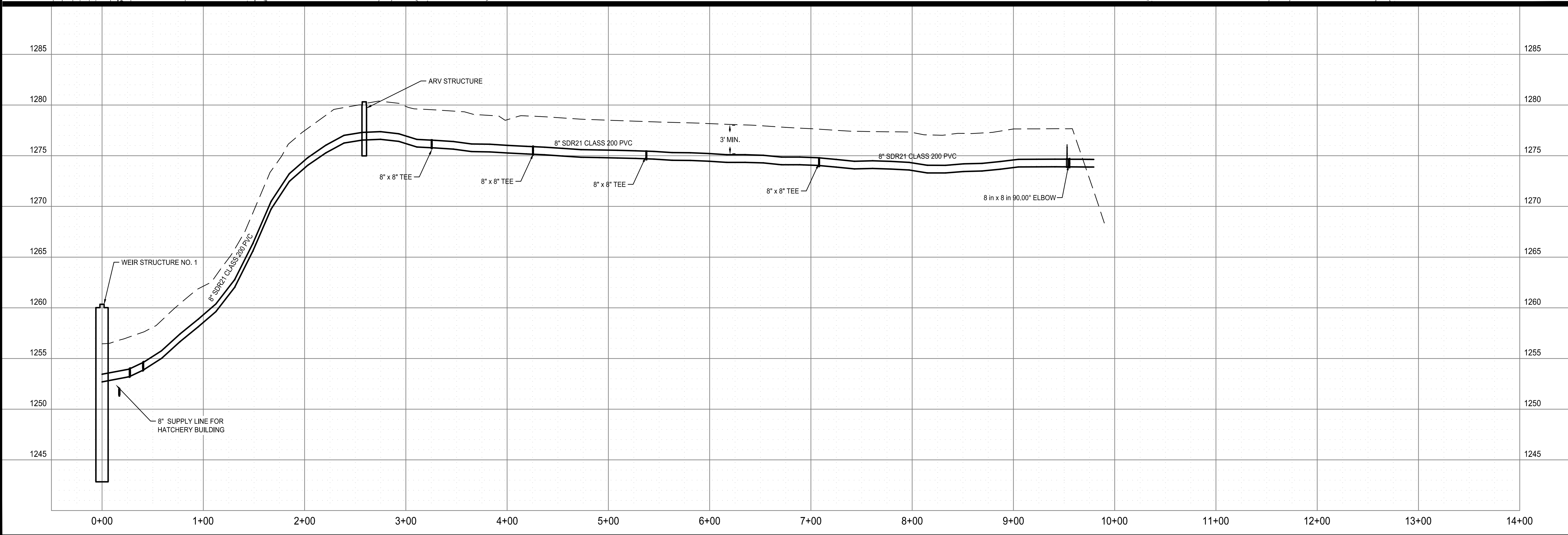
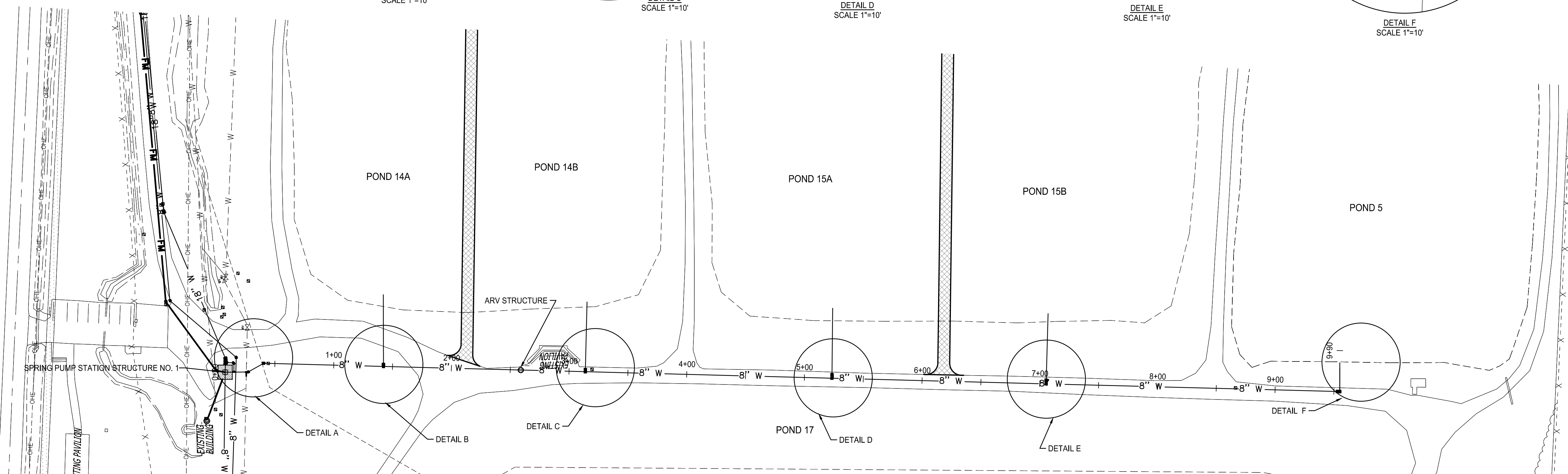


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 Layout Name: C411 POND 14-16 SUPPLY LINE  
 Plotted: Wednesday, December 25, 2024 - 1:08 pm  
 By: jmacdonald



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**FACILITY UPGRADES AT  
 CHARLIE CRAIG HATCHERY FOR  
 ARKANSAS GAME & FISH  
 977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719**

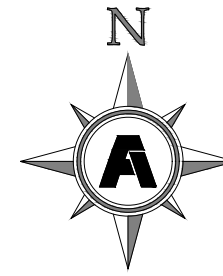
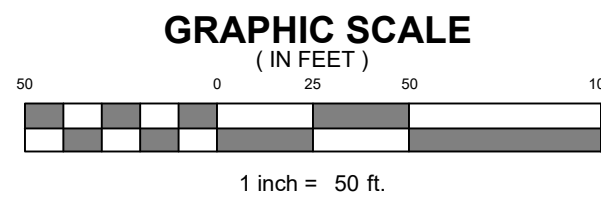
Rev.	Date	Revision Description



Issue Date:  
 Project No: ARKGAMEF.0003 WR  
 Drawn By: CCC  
 Checked By: JM

Sheet Title:  
**POND 14-16  
 SUPPLY LINE**

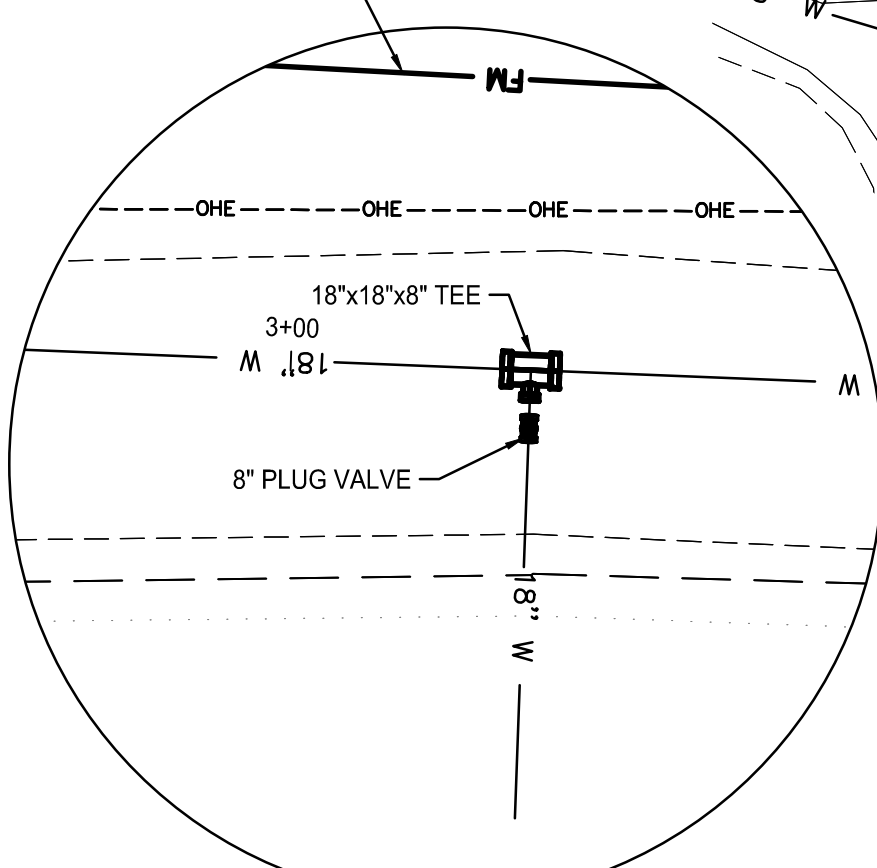
Sheet Number:  
**C411**



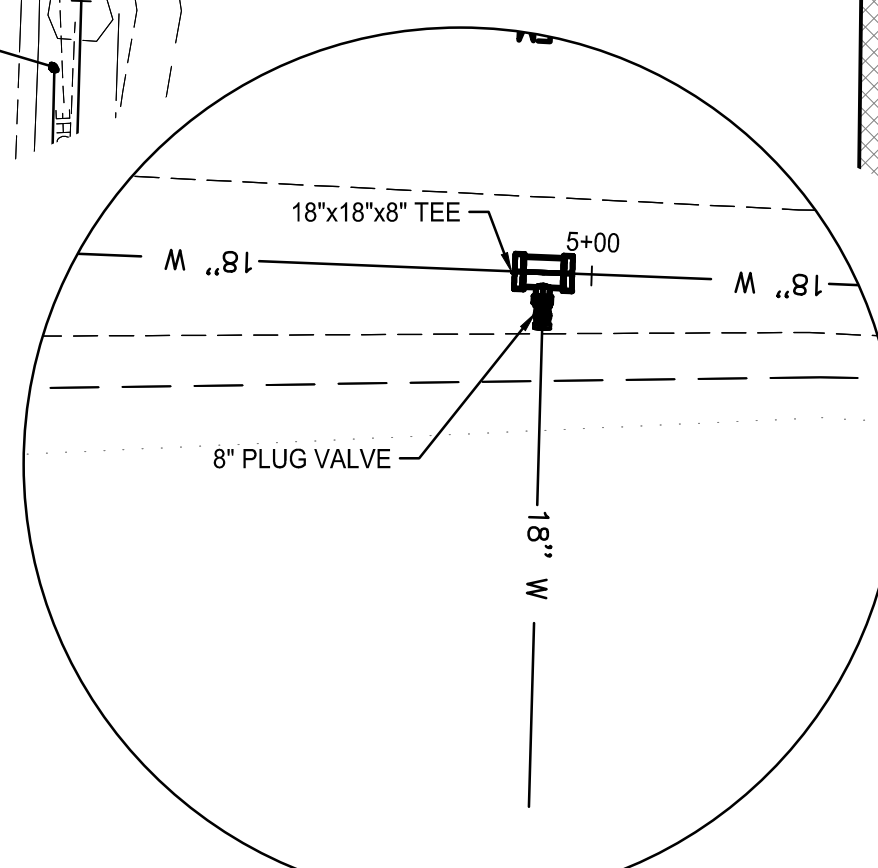
NOTE:  
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NOTE:  
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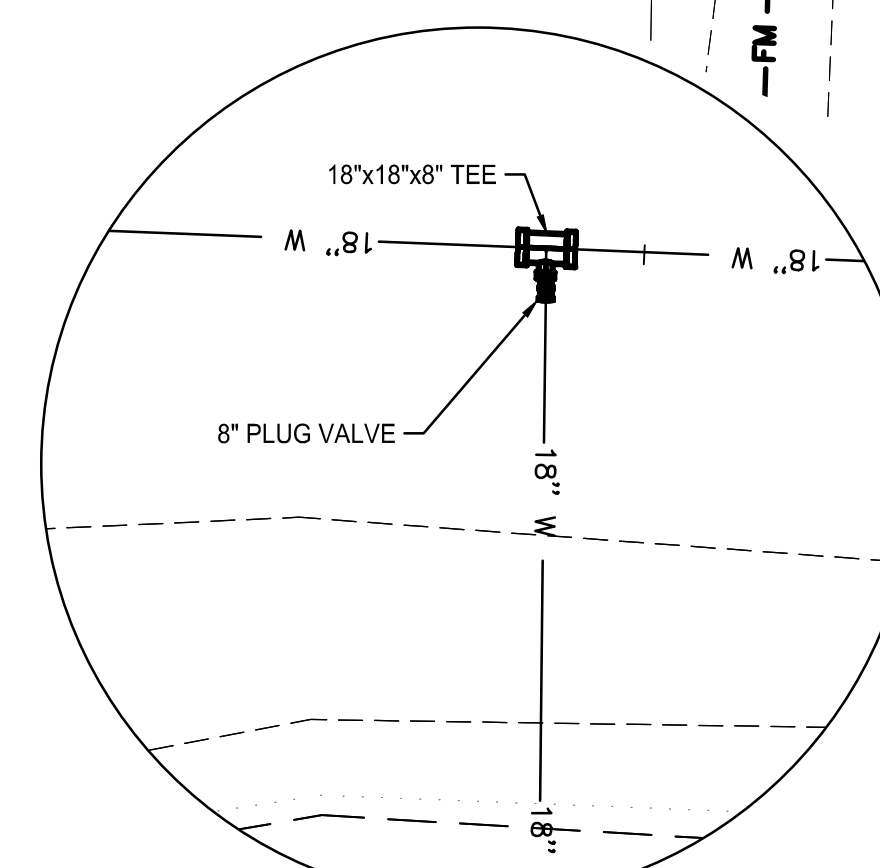
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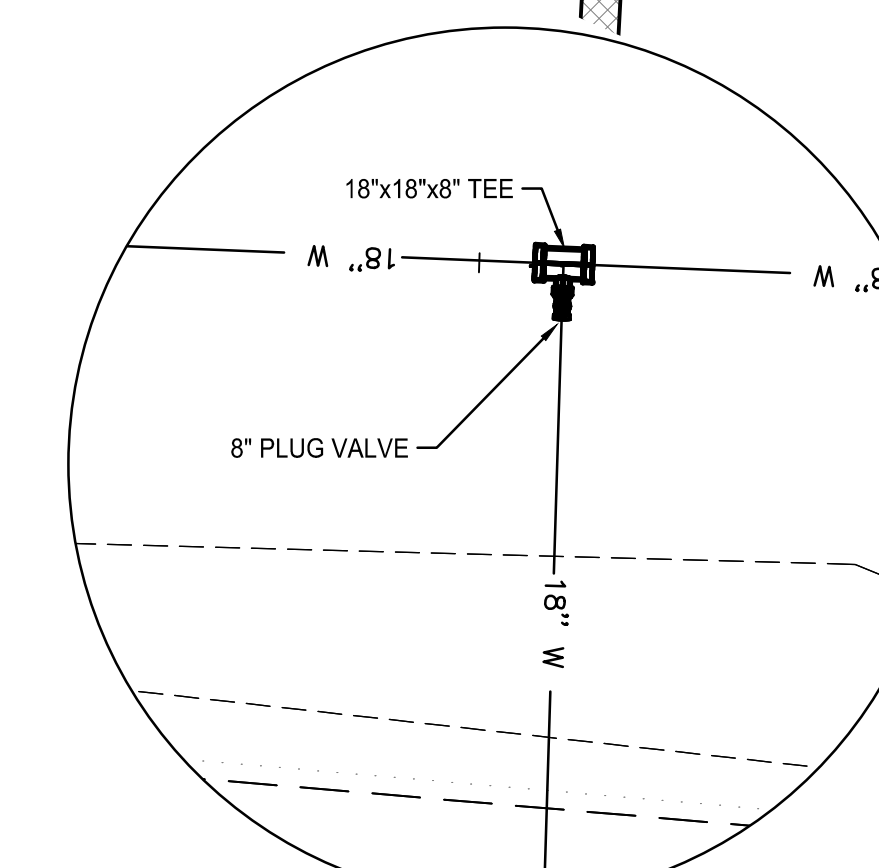
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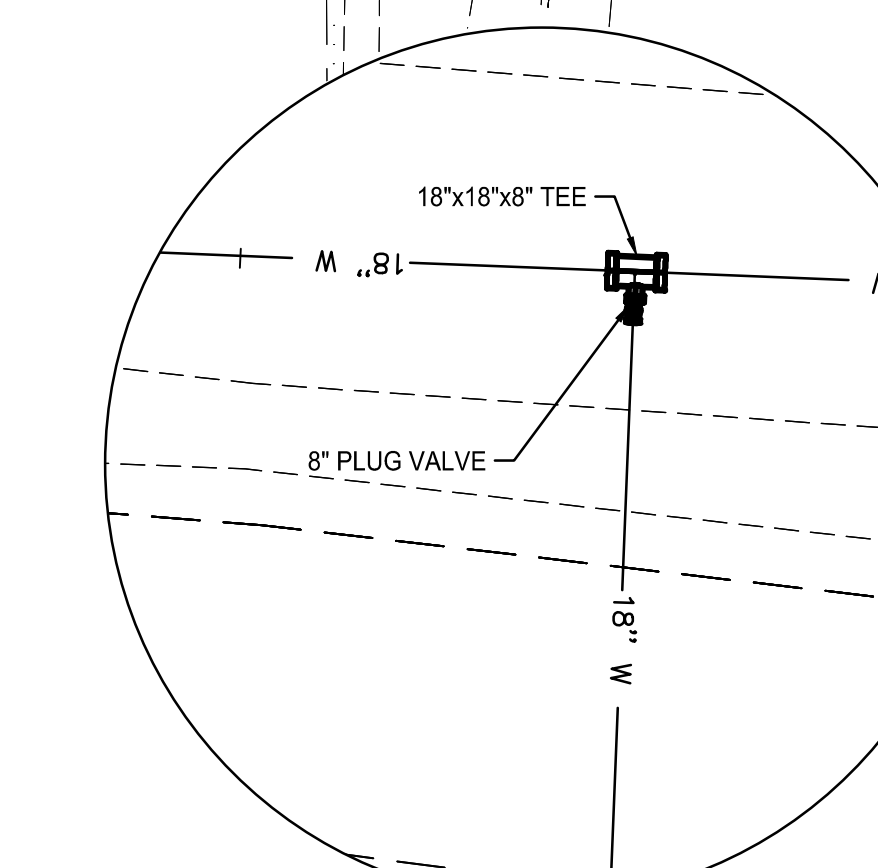
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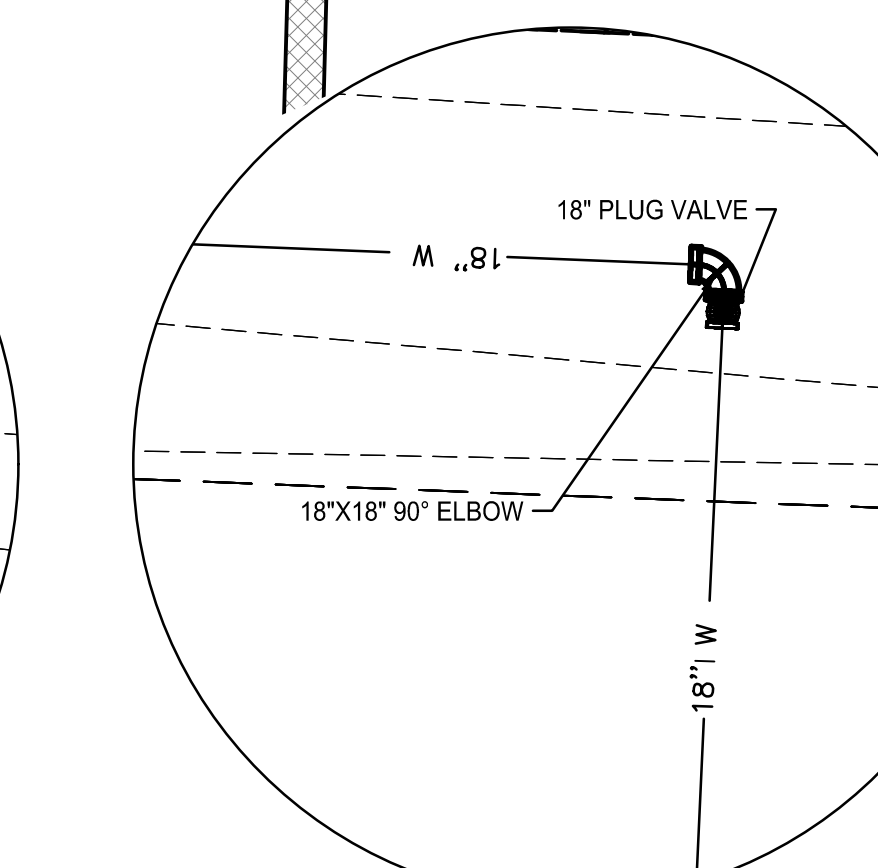
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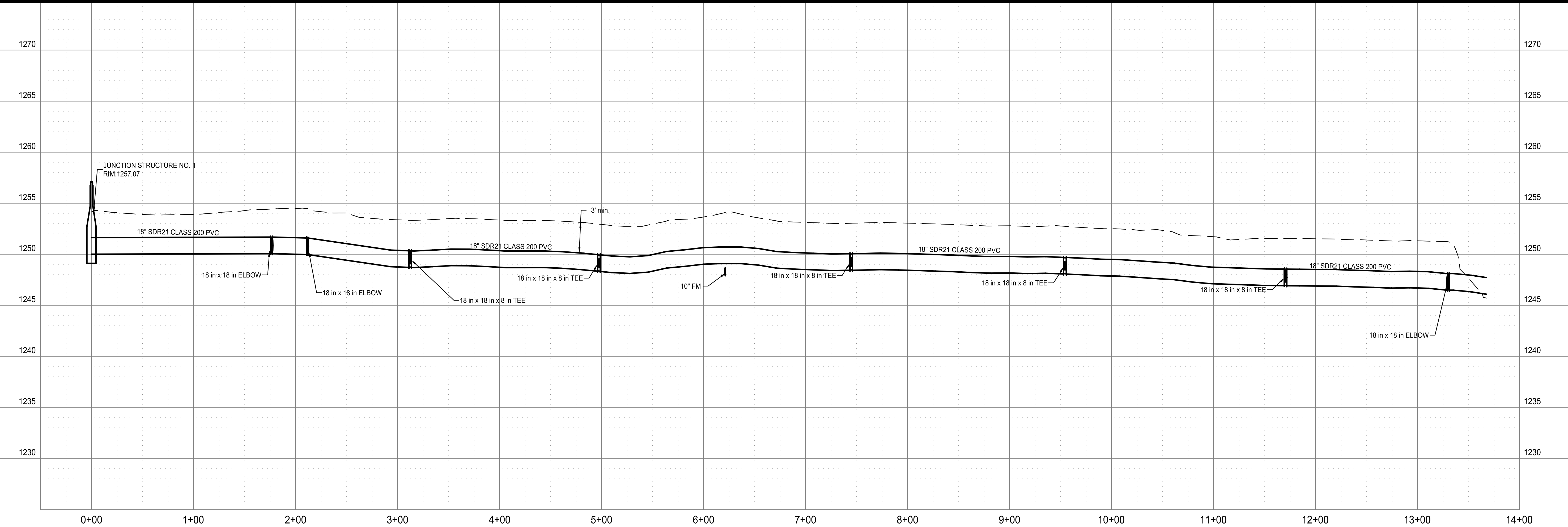
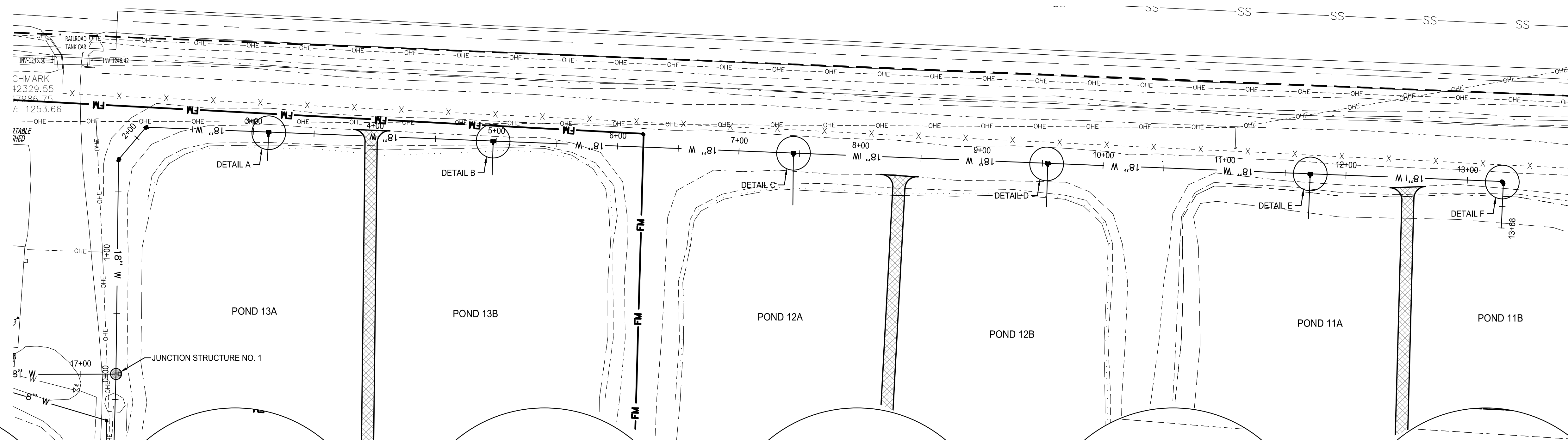
DETAIL D  
SCALE 1"=10'



DETAIL E  
SCALE 1"=10'



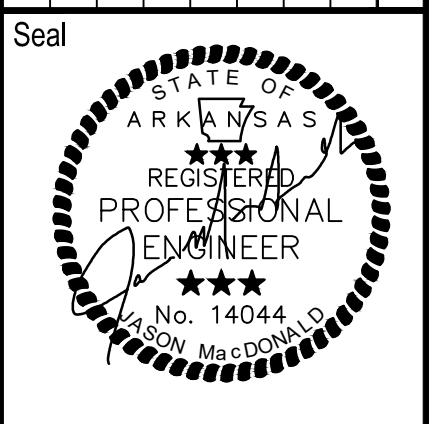
DETAIL F  
SCALE 1"=10'



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**FACILITY UPGRADES AT  
CHARLIE CRAIG HATCHERY FOR  
ARKANSAS GAME & FISH  
977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719**

Rev.	Date	Revision Description



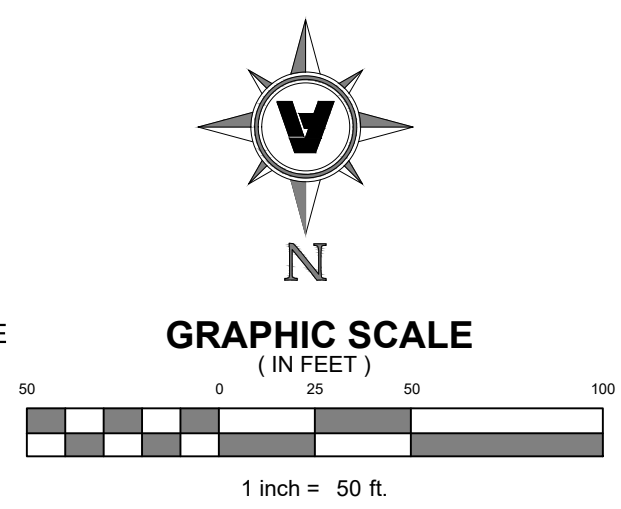
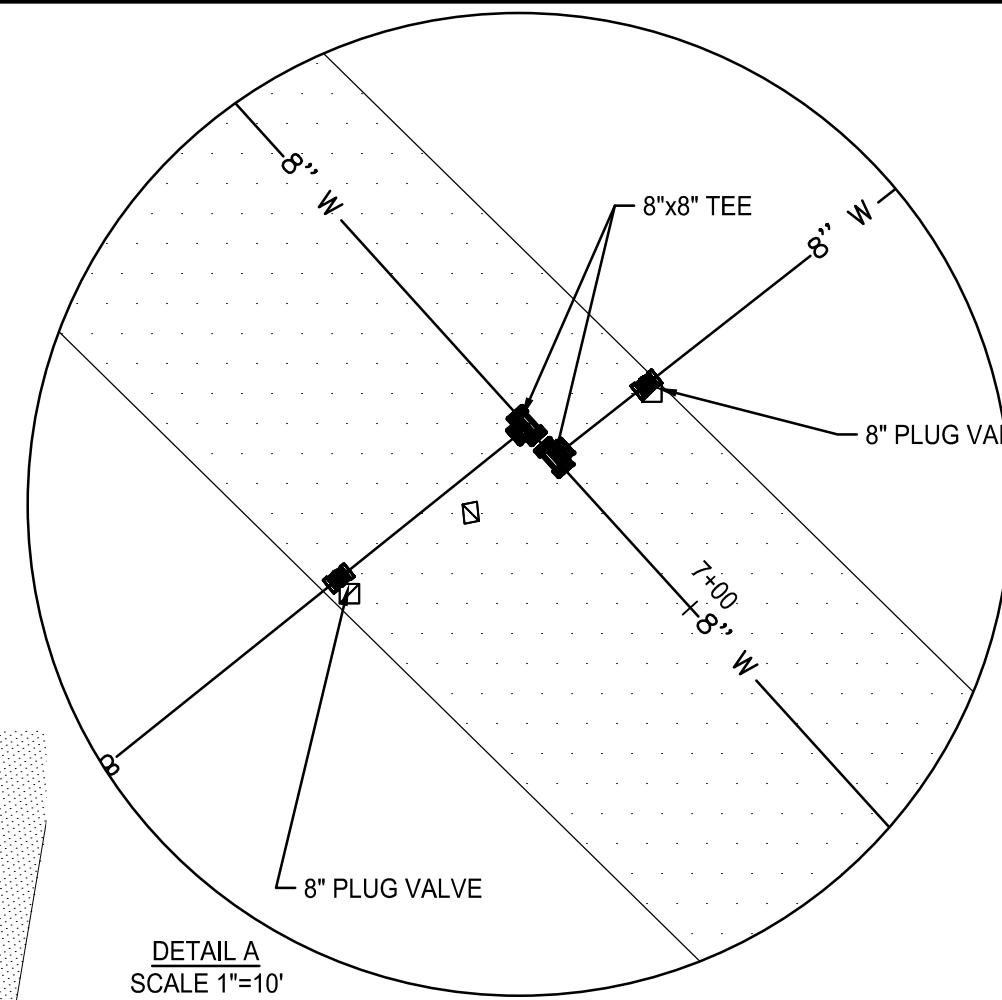
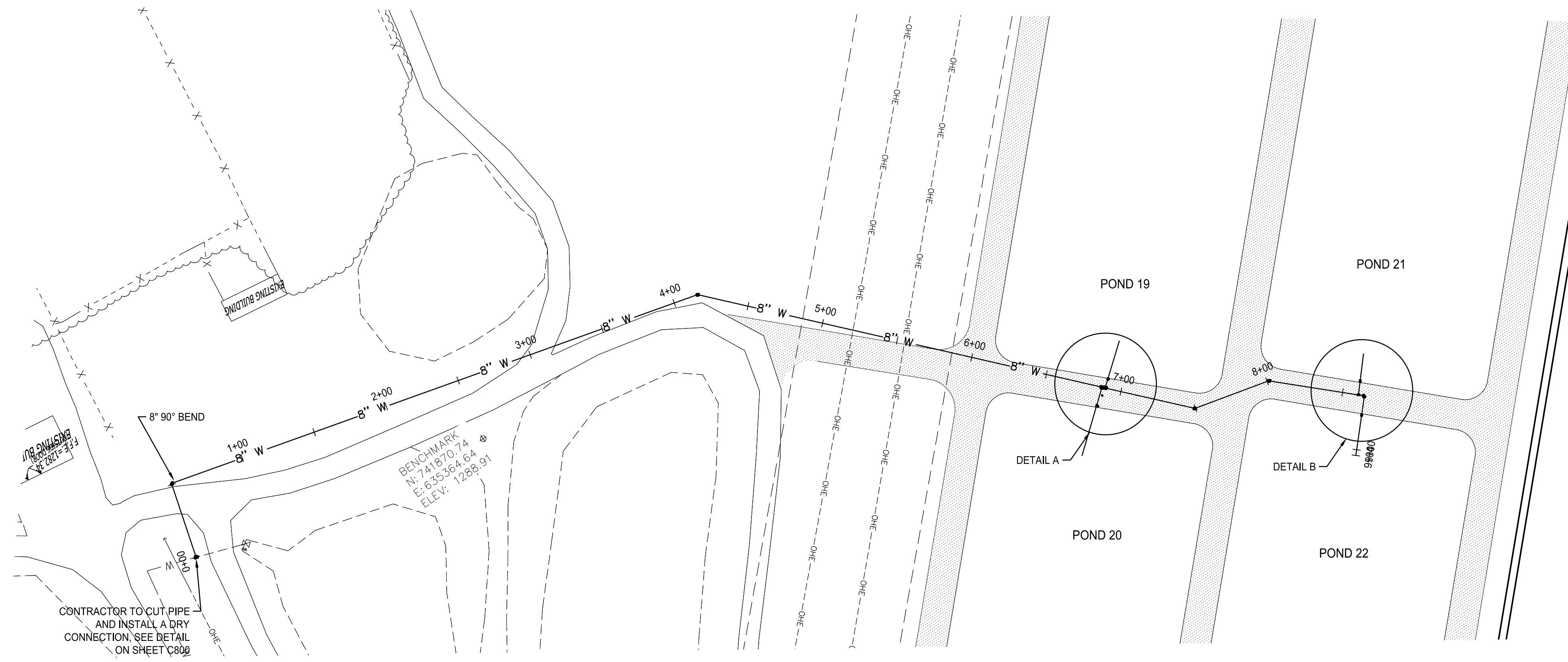
Issue Date:  
Project No: ARKGAMEF.0003 WR  
Drawn By: CCC  
Checked By: JM  
Sheet Title:

**POND 11-13  
SUPPLY LINE**

Sheet Number:  
**C412**

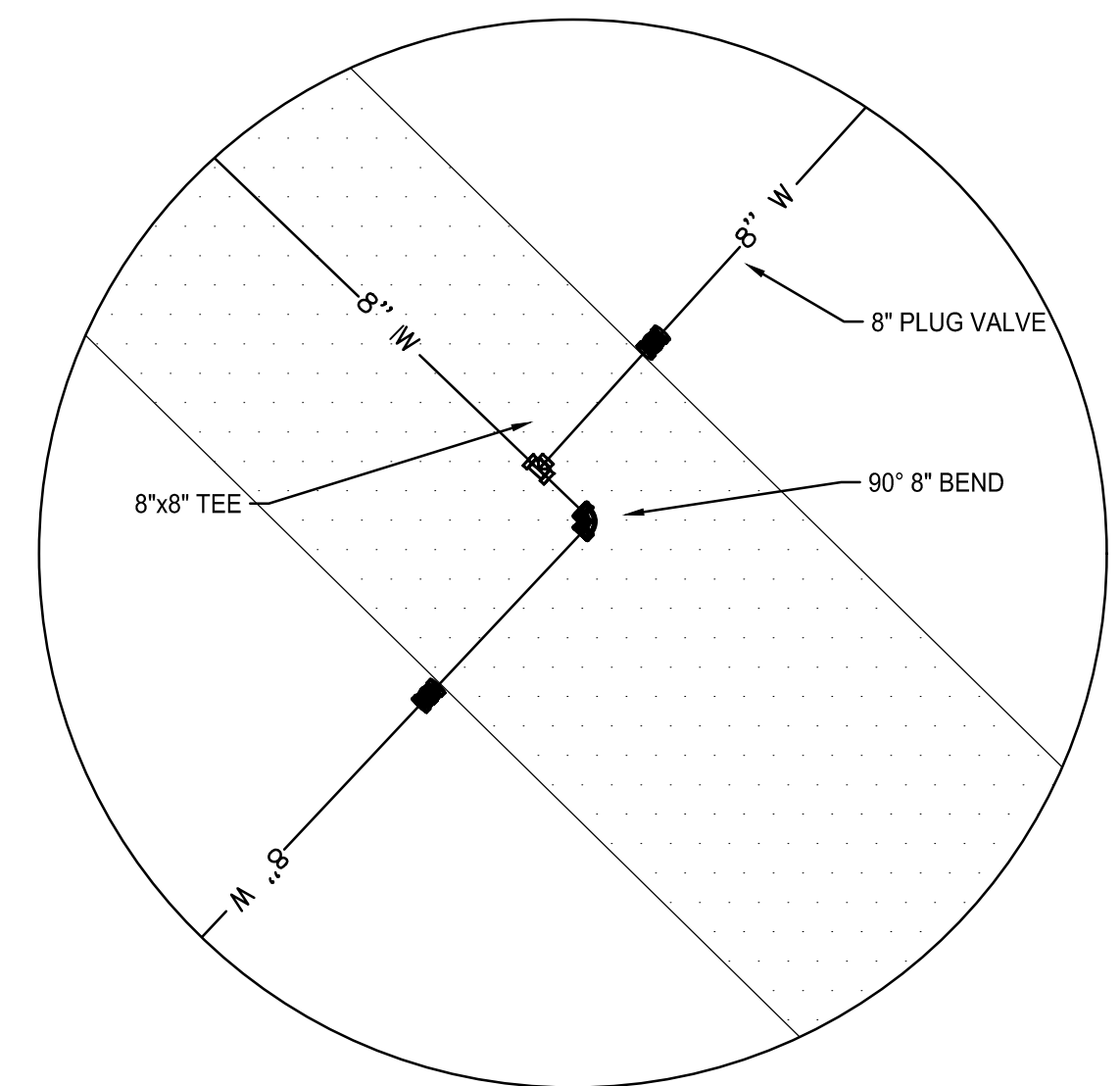
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 Layout Name: C413 POND 19 20 SUPPLY LINE  
 Plotted: Monday, December 23, 2024 - 5:11 pm  
 By: jmacdonald

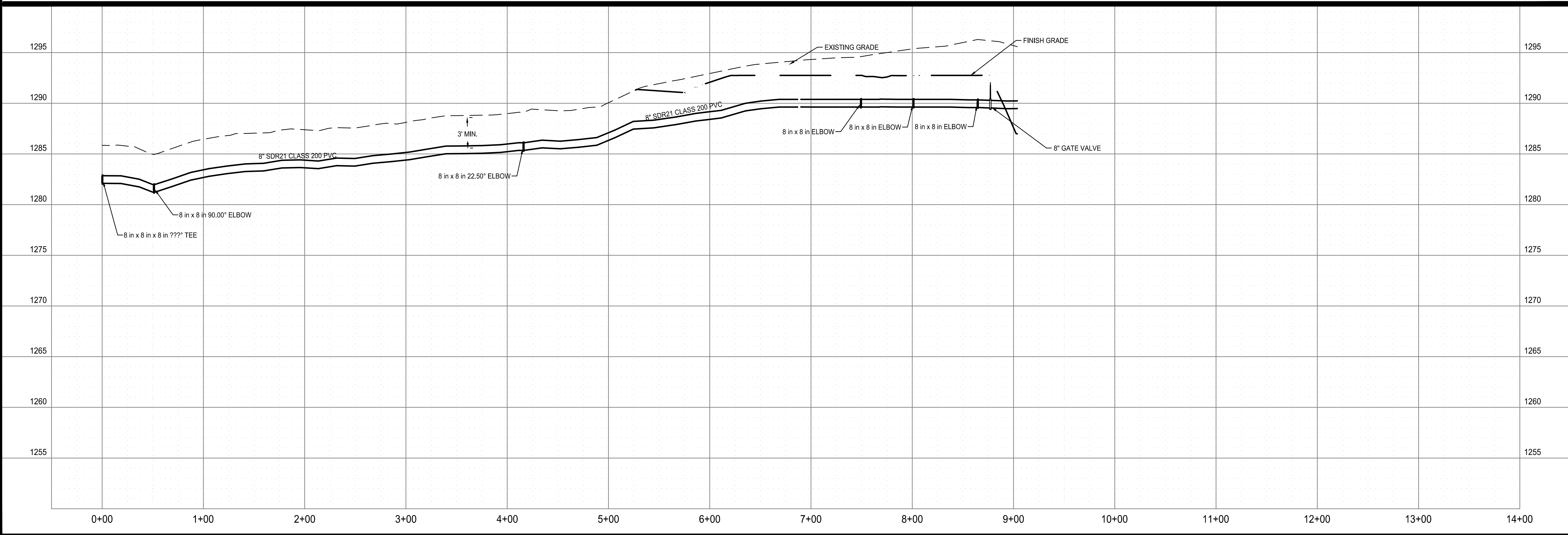


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DETAIL C  
 SCALE 1"=10'



**FACILITY UPGRADES AT  
 CHARLIE CRAIG HATCHERY FOR  
 ARKANSAS GAME & FISH  
 977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719**

Rev.	Date	Revision Description

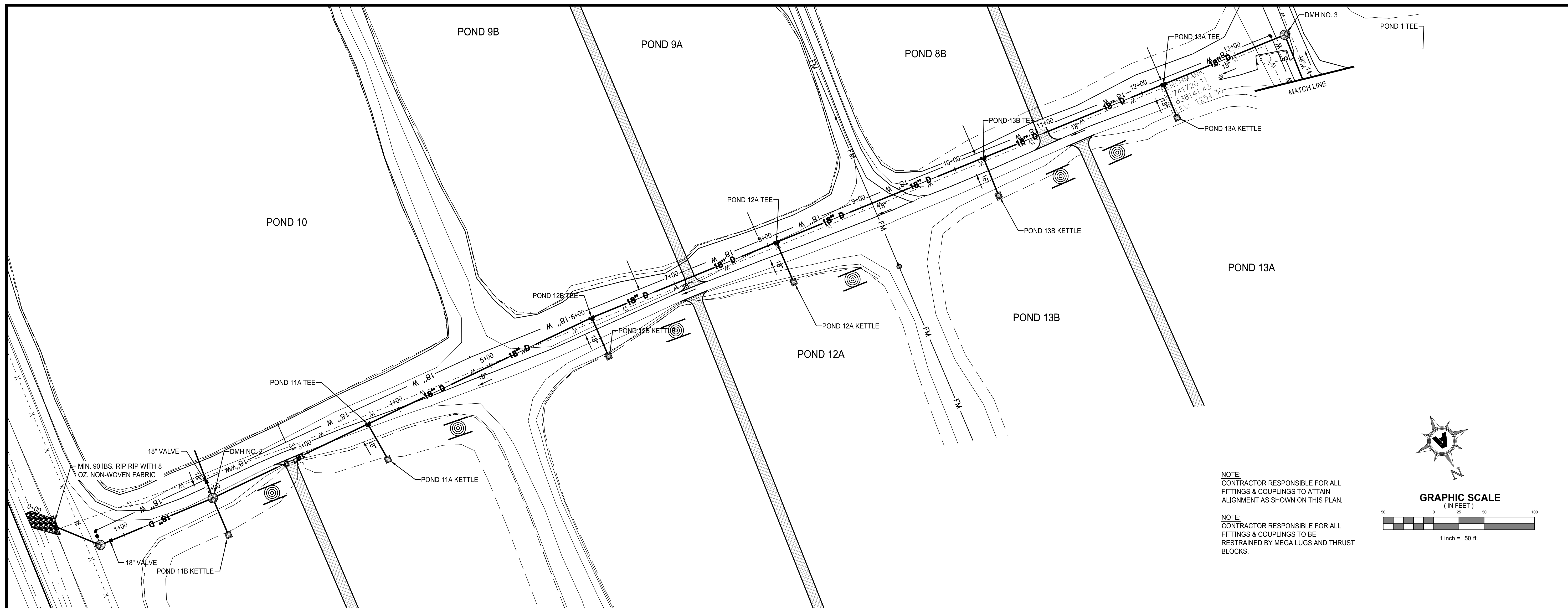


Issue Date:  
 Project No: ARKGAMEF.0003 WR  
 Drawn By: CCC  
 Checked By: JM

Sheet Title:  
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 SUPPLY LINE**

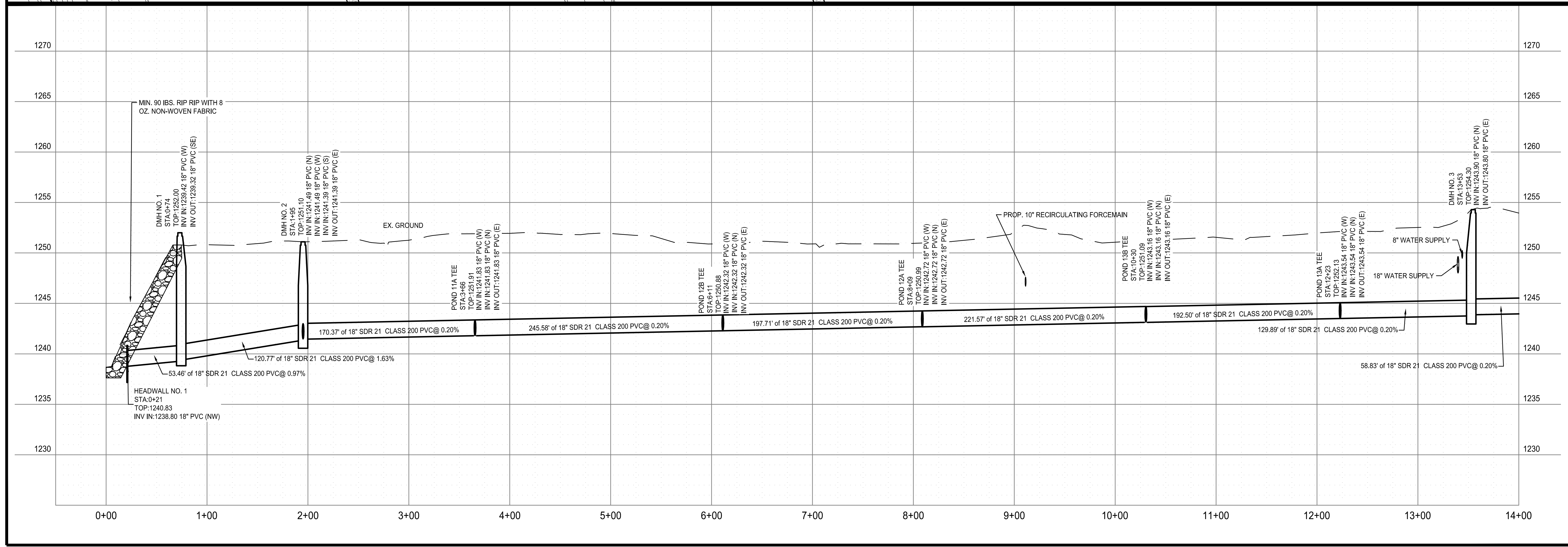
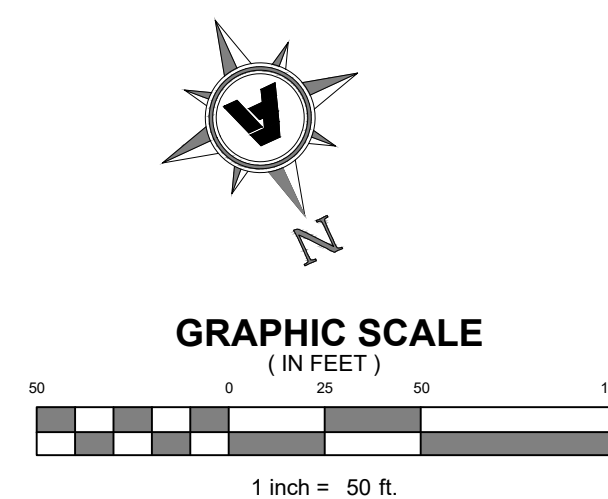
Sheet Number:  
**C413**

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 Filepath: C:\Users\jmacdonald\OneDrive\Work\ARKGAME0003\CAD\Plans\C414 MAIN DRAIN PIPE (STA 14+00-STA 26+50).dwg  
 Plotted: Wednesday, December 25, 2024 - 1:50 pm  
 By: jmacdonald

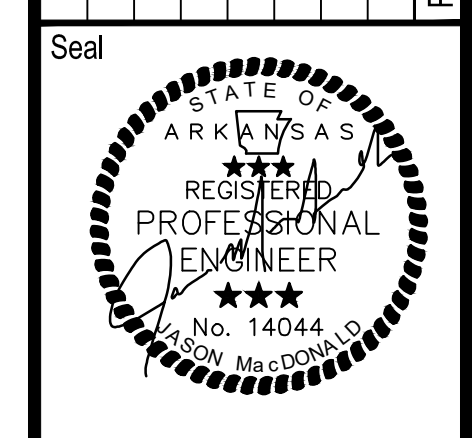


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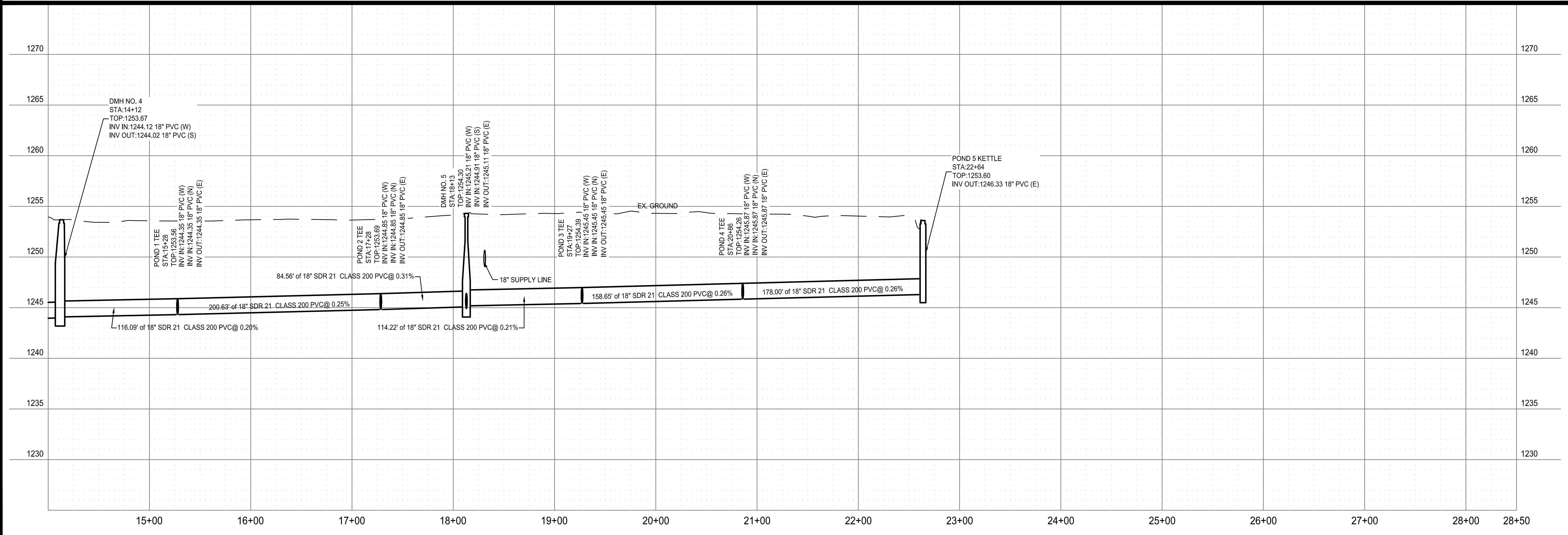
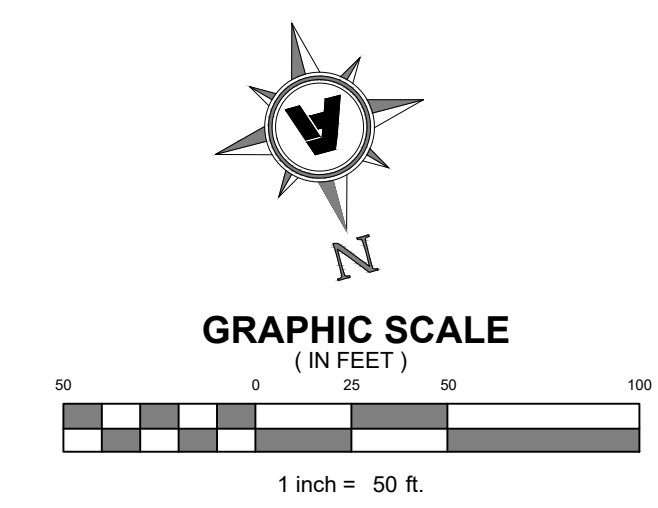
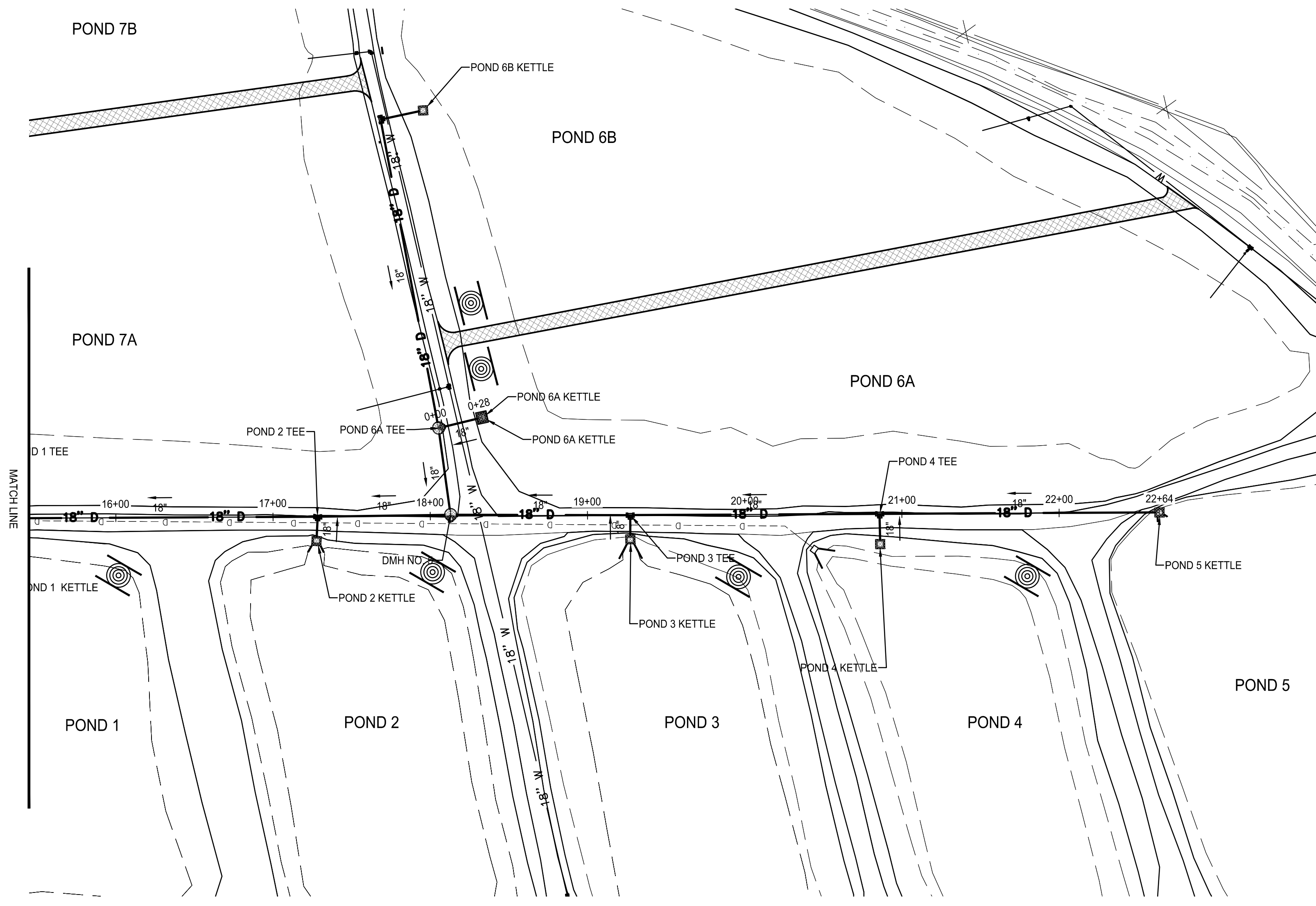
Rev.	Date	Revision Description



Issue Date:  
 Project No: ARKGAME0003 WR  
 Drawn By: CCC  
 Checked By: JM  
 Sheet Title:

MAIN DRAIN PIPE  
 (STA 0+00-STA 14+00)  
 Sheet Number:  
**C414**

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 File Path: C:\Users\jmacdonald\OneDrive\Work\ARKGAME003WR\CAD\Plans\C415 MAIN DRAIN PIPE (STA 14+00-STA 26+50).dwg  
 Plotted: Wednesday, December 25, 2024 - 1:52 pm  
 By: jmacdonald



**FACILITY UPGRADES AT  
 CHARLIE CRAIG HATCHERY FOR  
 ARKANSAS GAME & FISH**  
 977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719

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Rev.	Date	Revision Description

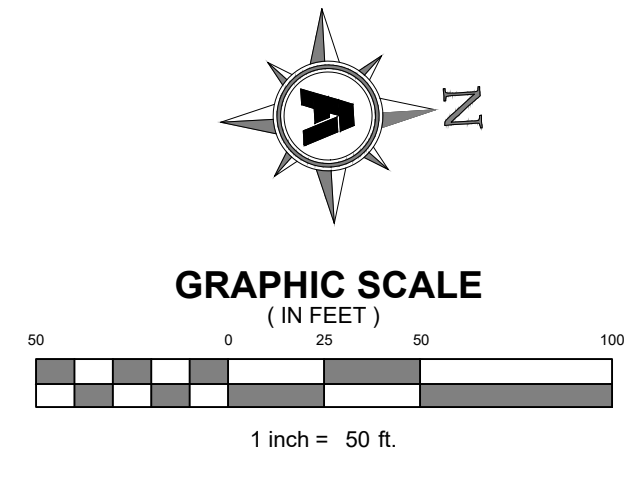
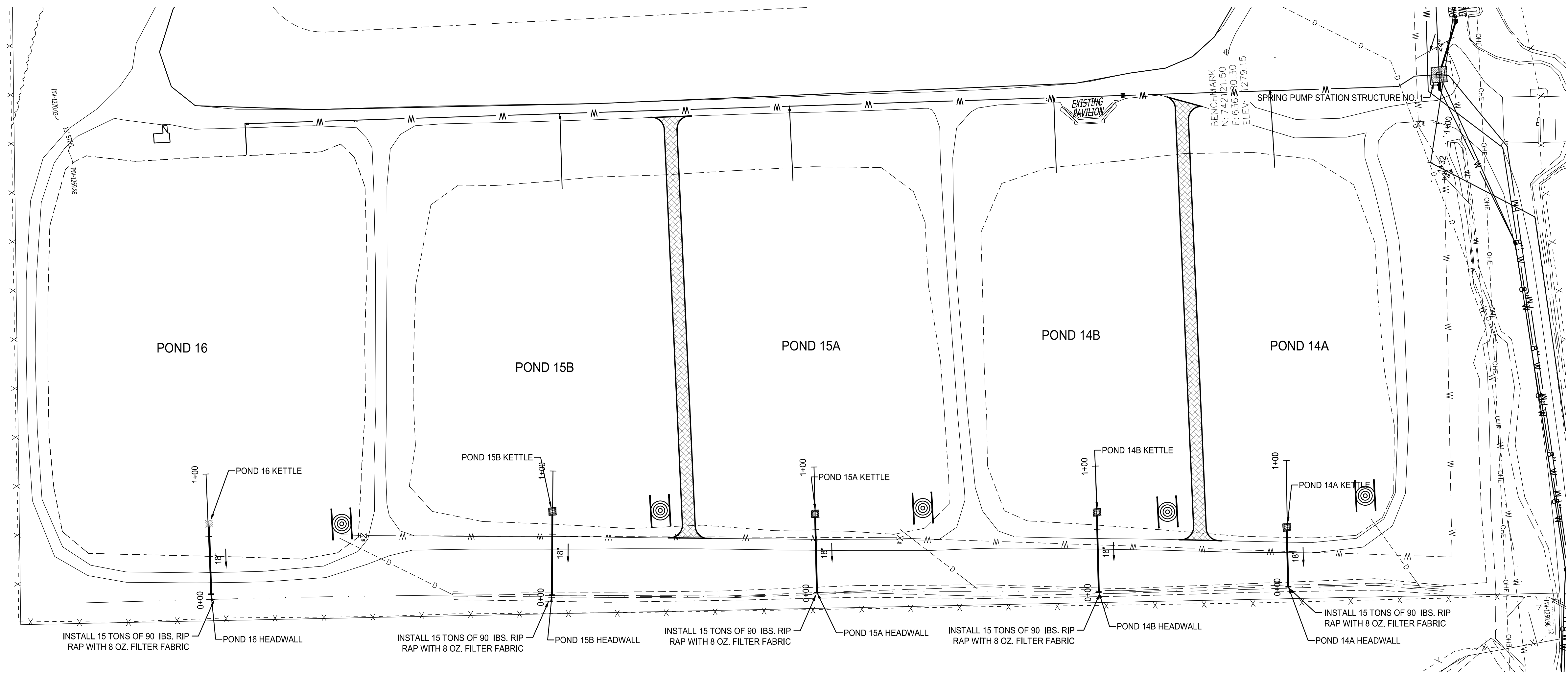


Issue Date:  
 Project No: ARKGAME003 WR  
 Drawn By: CCC  
 Checked By: JM  
 Sheet Title:

**MAIN DRAIN PIPE  
 (STA 14+00-STA  
 26+50)**

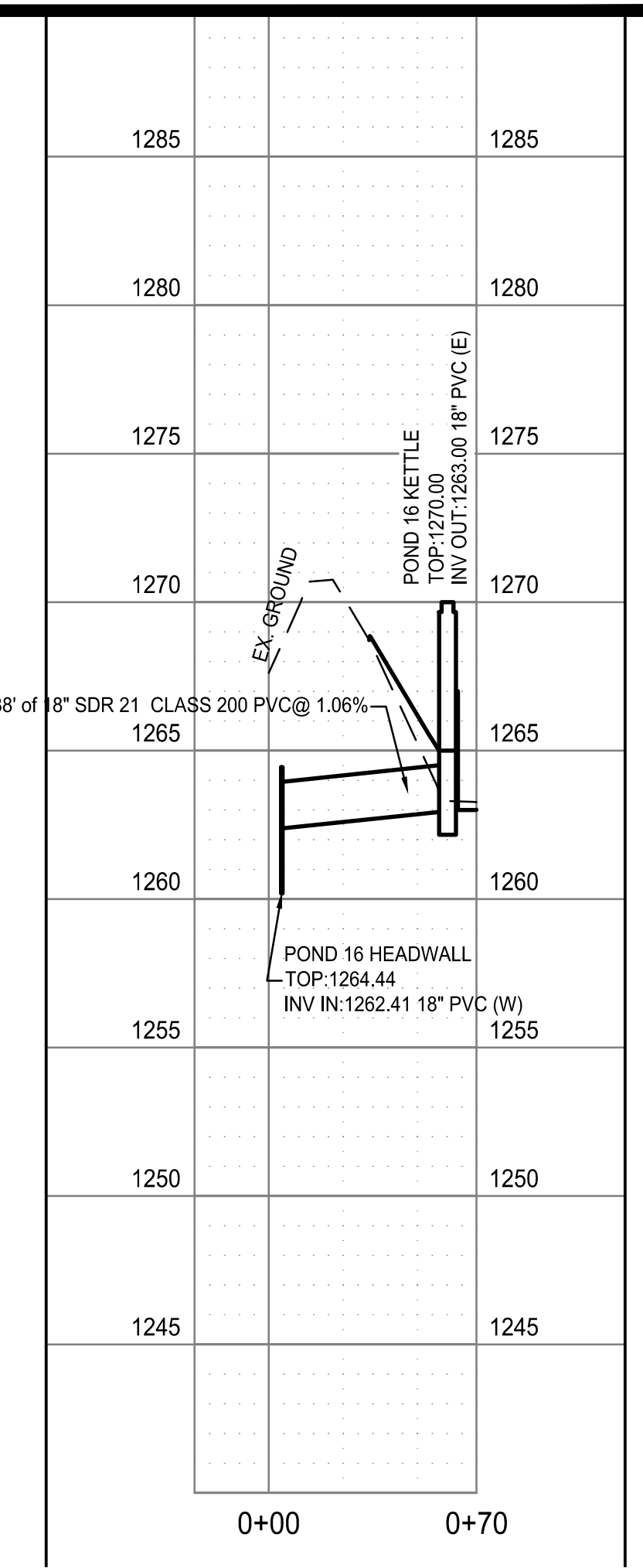
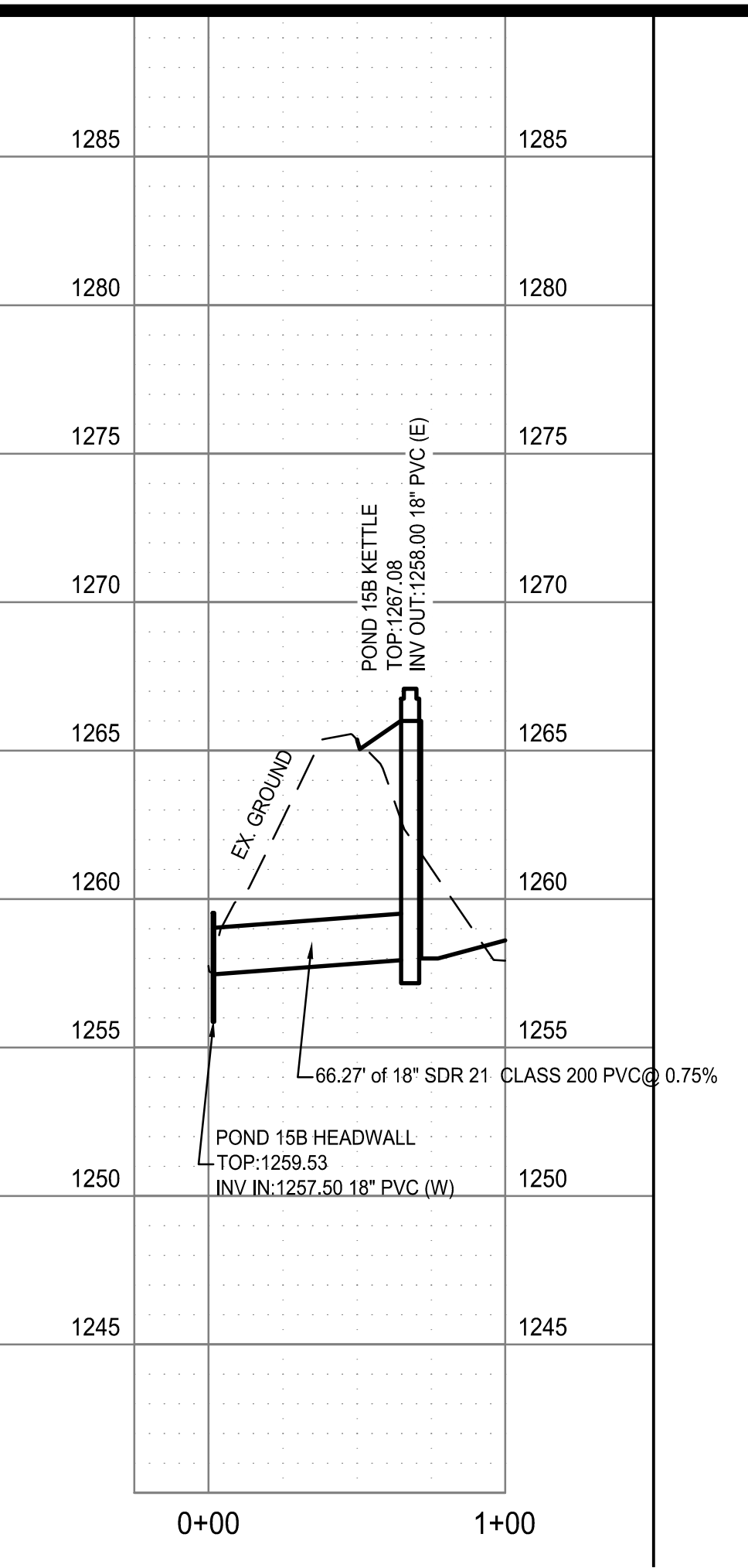
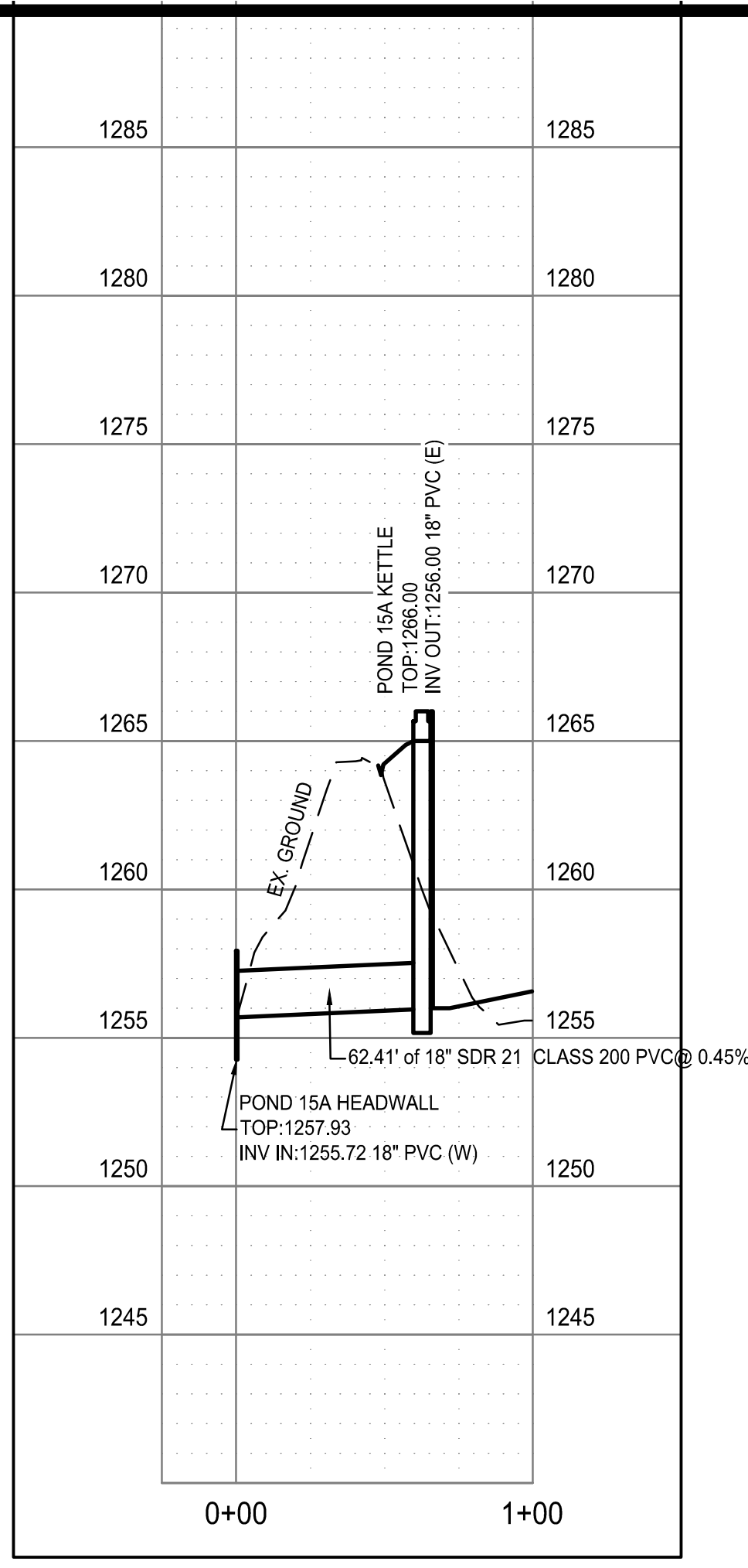
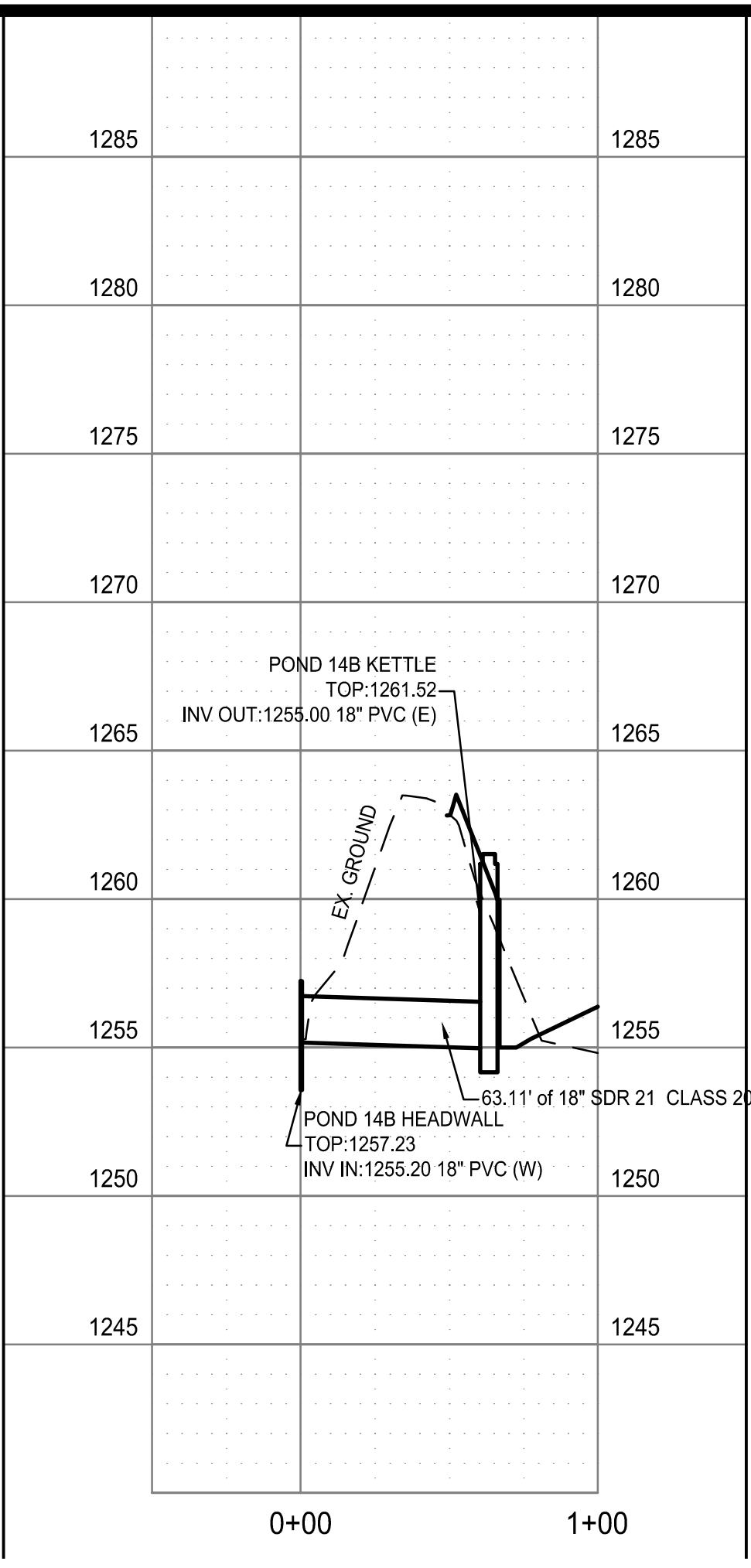
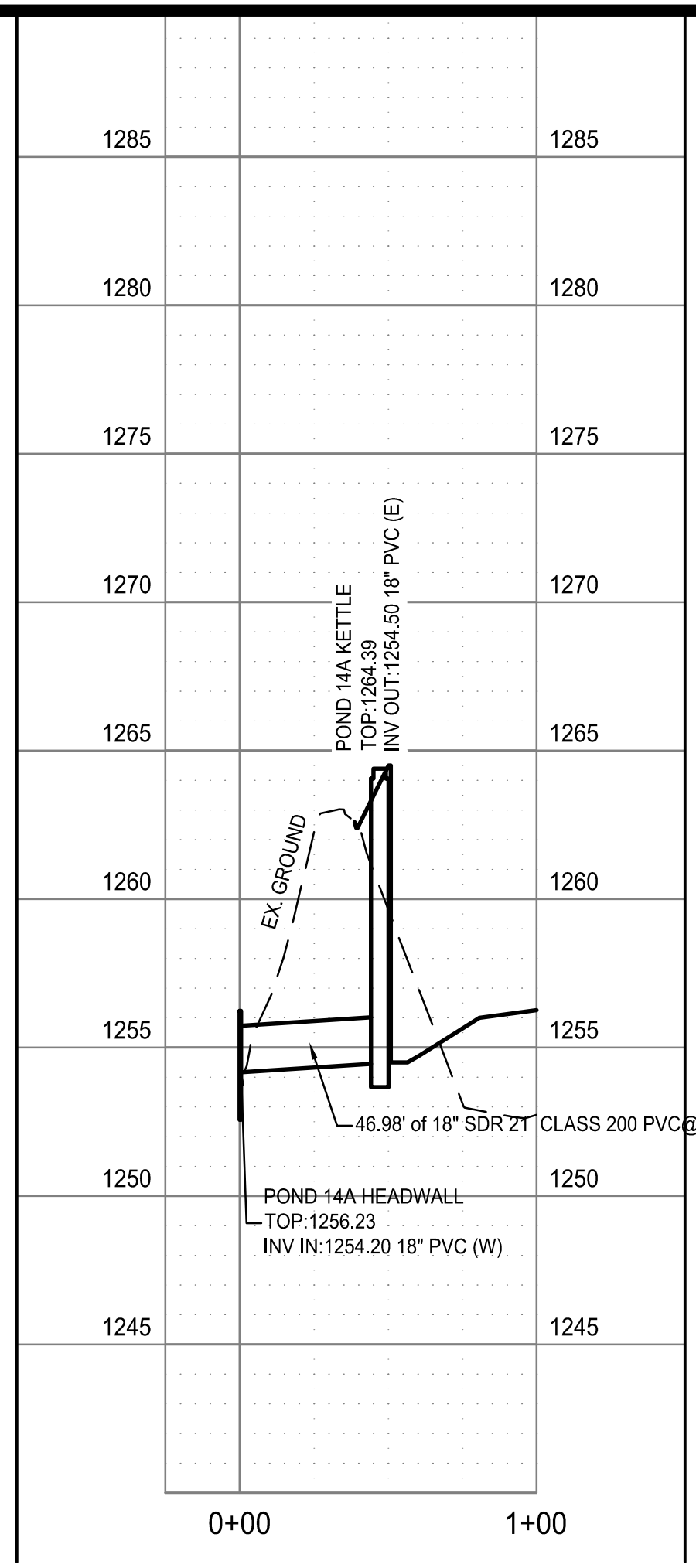
Sheet Number:  
**C415**





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 Layout Number: C417 POND 14A, 14B, 15A, 15B, 16 DRAIN LINE  
 Plotted: Sunday, December 29, 2024 4:37 pm  
 By: jmacdonald

FACILITY UPGRADES AT  
 CHARLIE CRAIG HATCHERY FOR  
 ARKANSAS GAME & FISH  
 977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719

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Rev.	Date	Revision Description

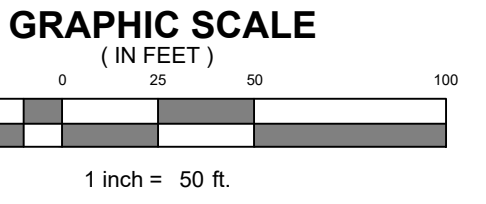
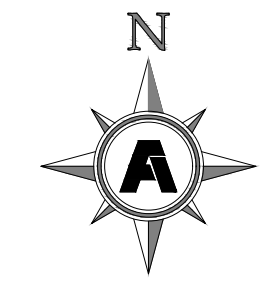
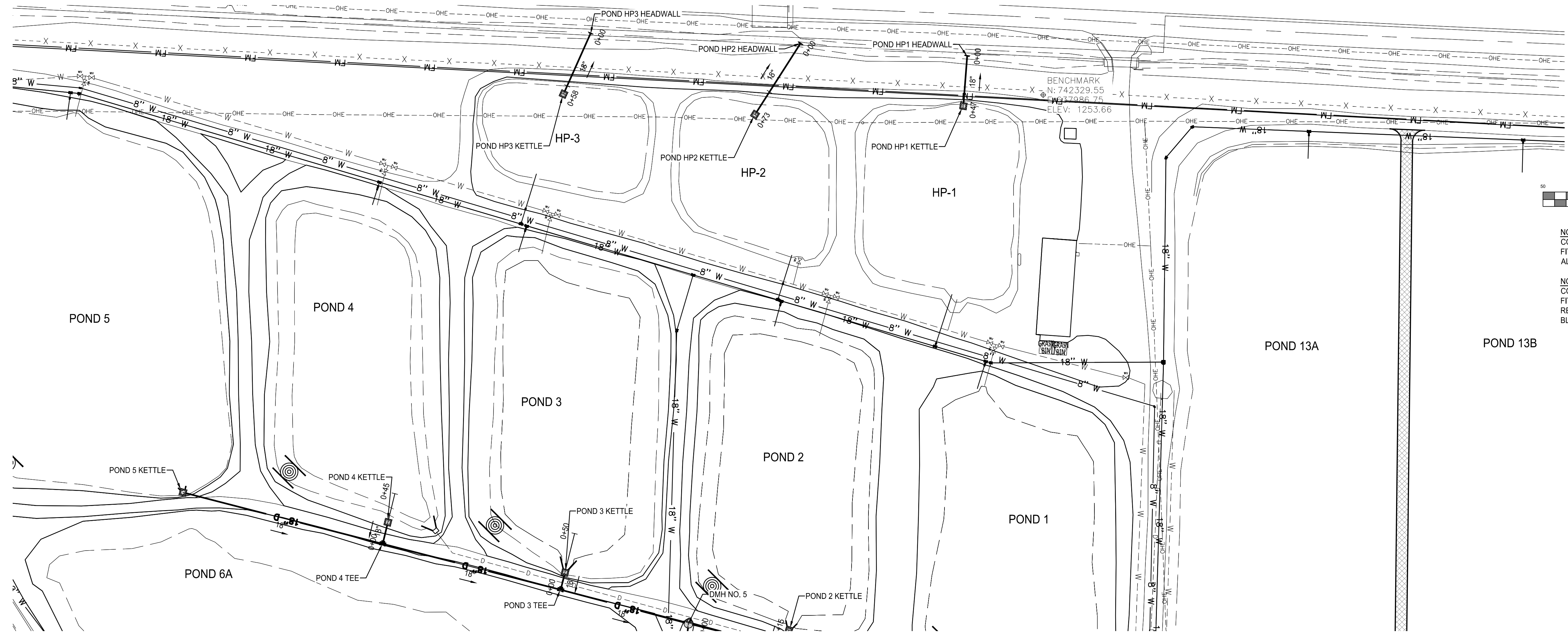


Issue Date:  
 Project No: ARKGAMEF.0003 WR  
 Drawn By: CCC  
 Checked By: JM

Sheet Title:  
 POND  
 14A, 14B, 15A, 15B, 16  
 DRAIN LINE

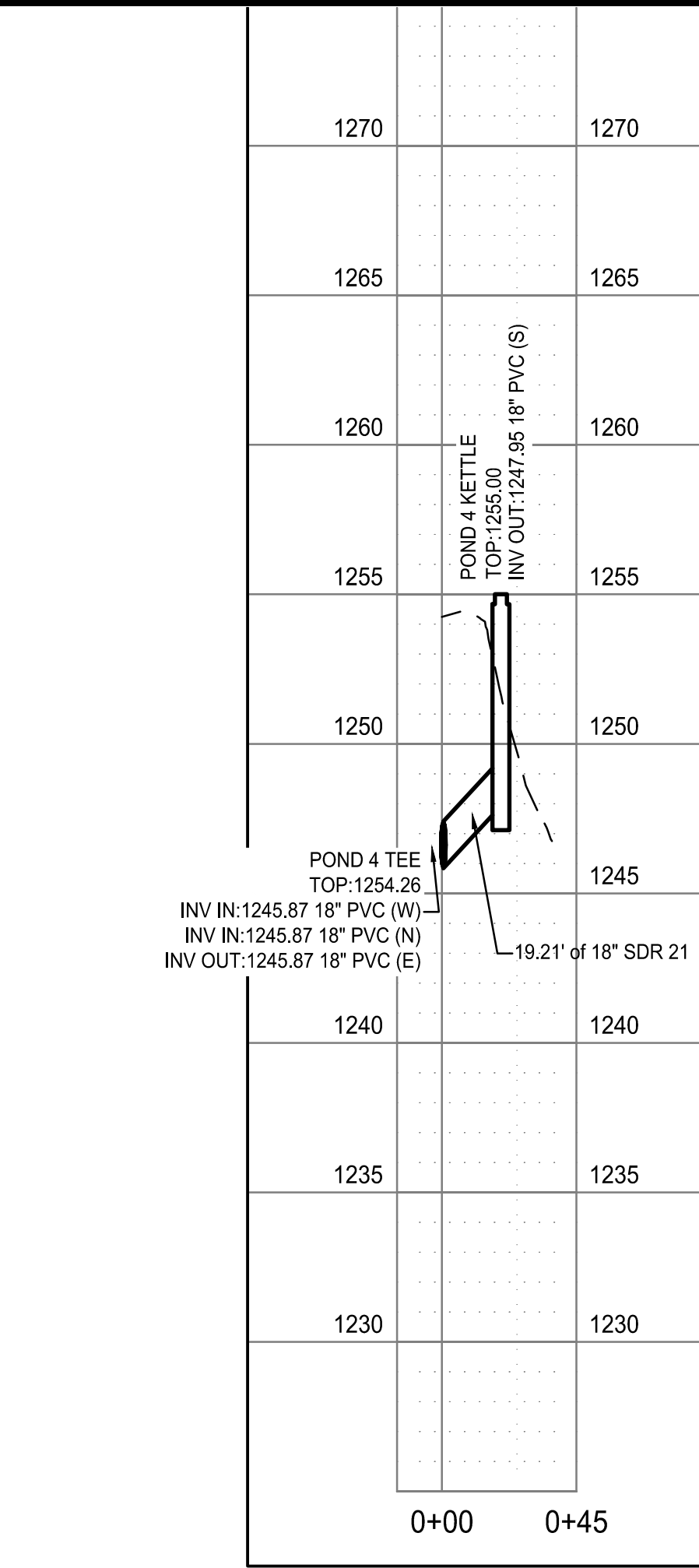
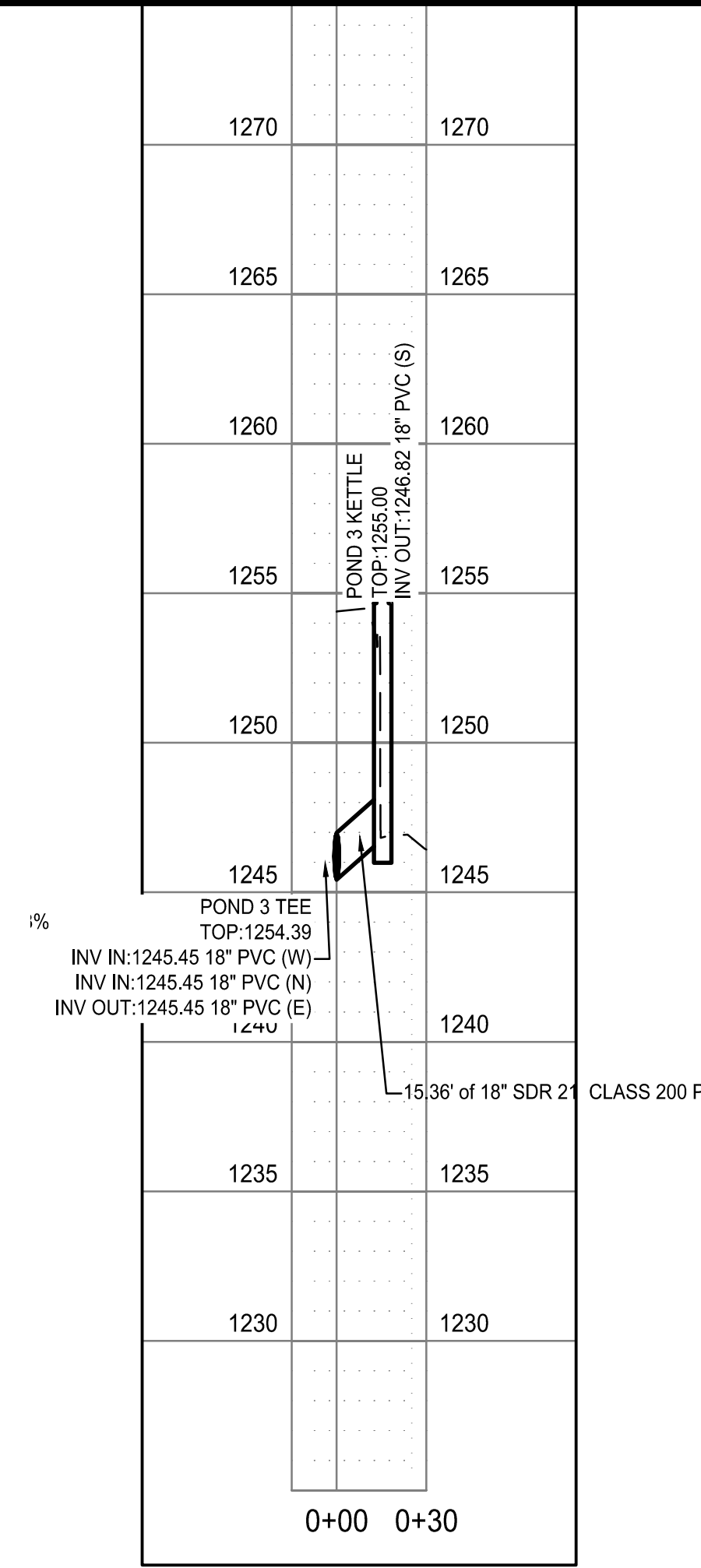
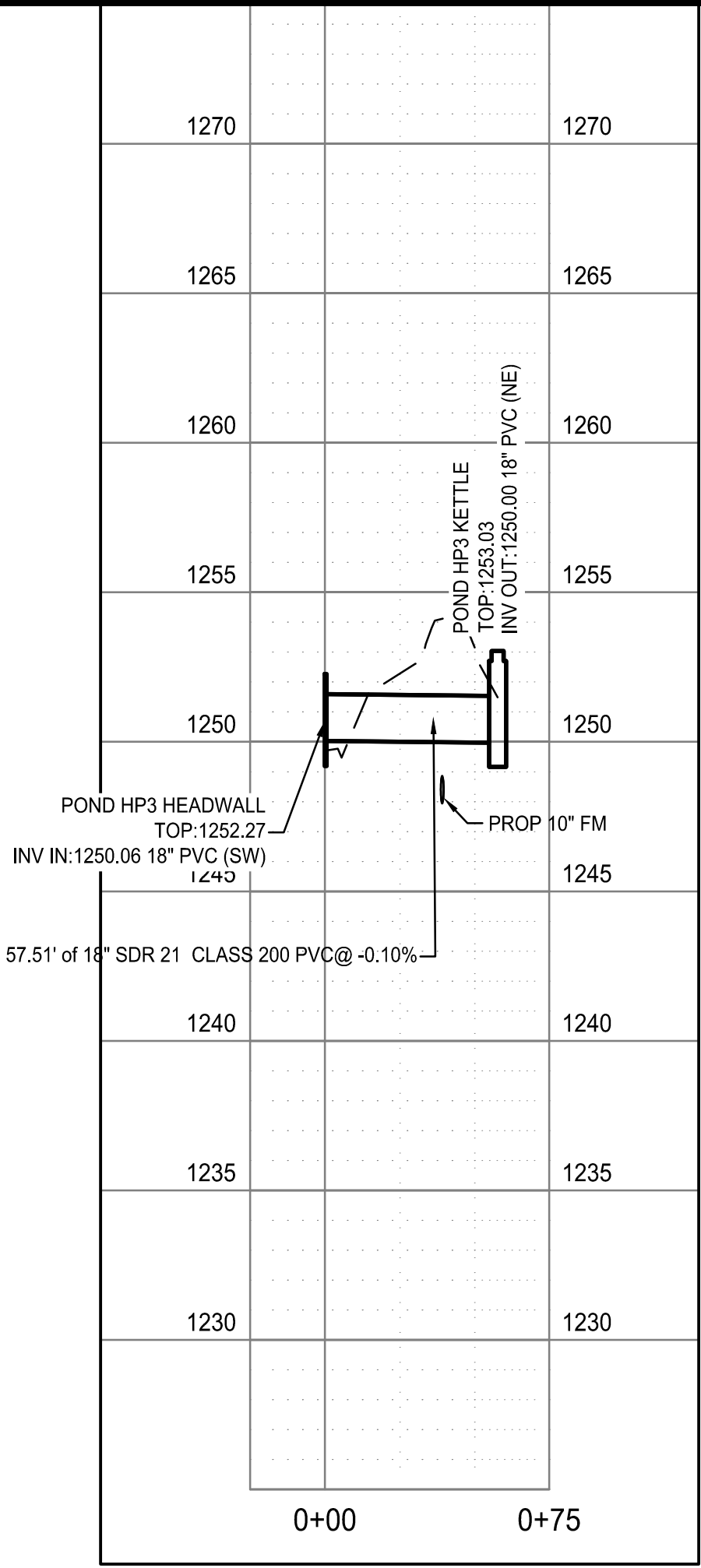
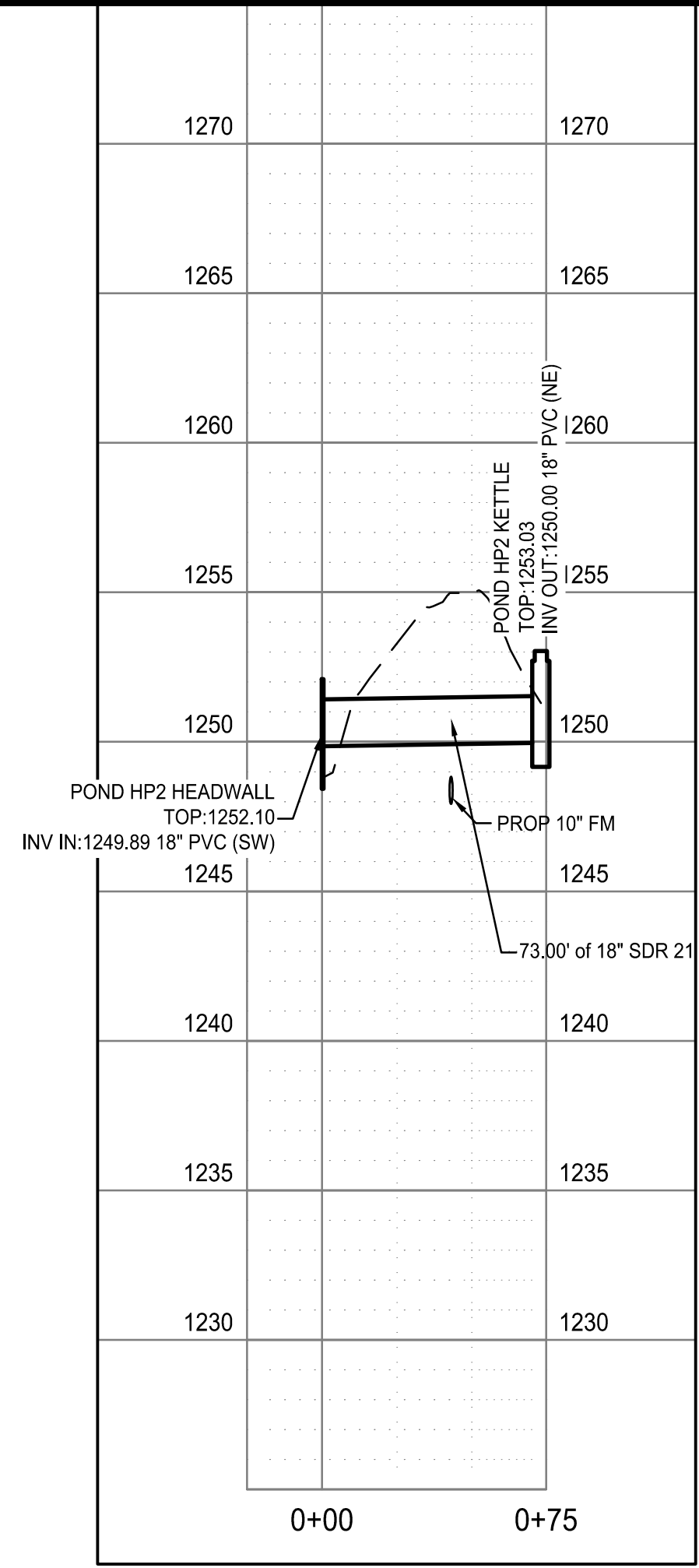
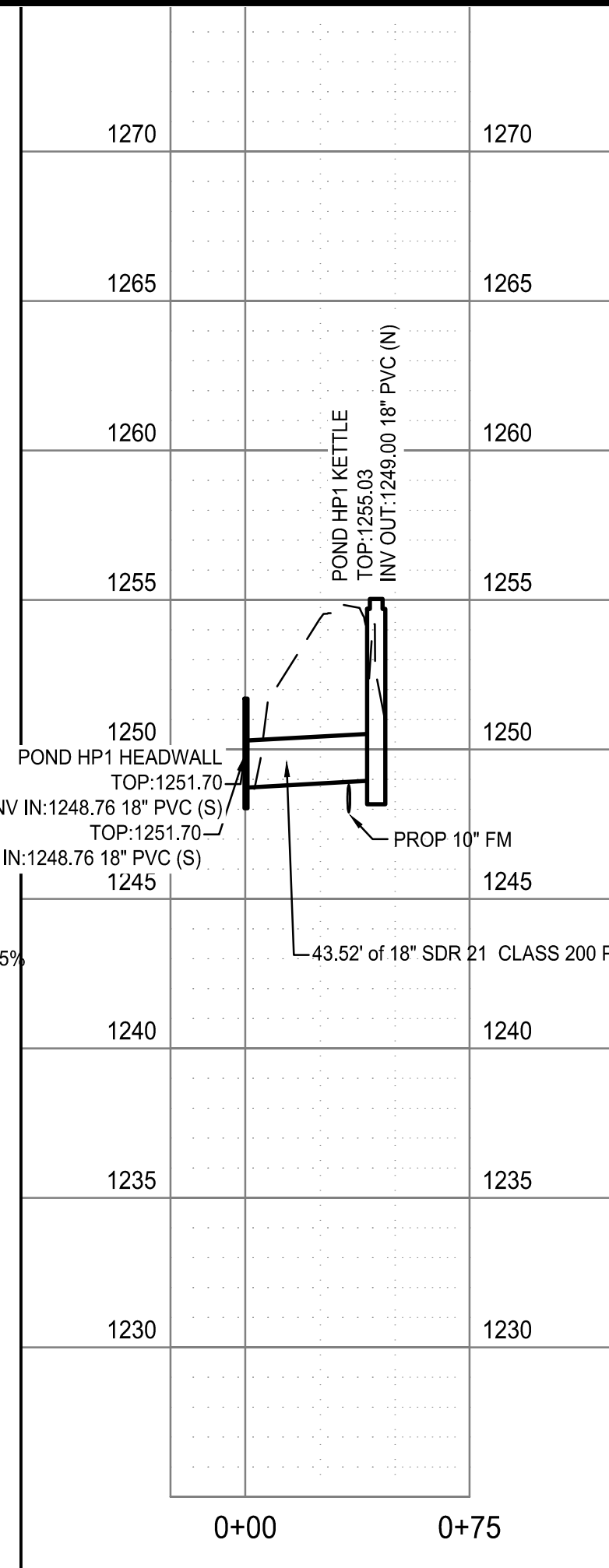
Sheet Number:  
**C417**

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 Layout Name: C418 HP1,2,3 & POND-3,4 DRAIN LINE  
 Plotted: Sunday, December 29, 2024 - 4:51 pm  
 By: jmacdonald



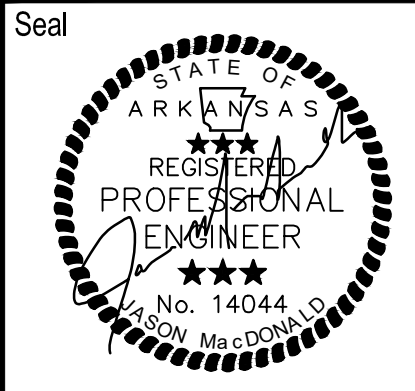
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NOTE:  
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**FACILITY UPGRADES AT  
 CHARLIE CRAIG HATCHERY FOR  
 ARKANSAS GAME & FISH**  
 977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719

Rev.	Date	Revision Description



Issue Date:  
 Project No: ARKGAMEF.0003 WR  
 Drawn By: CCC  
 Checked By: JM  
 Sheet Title:

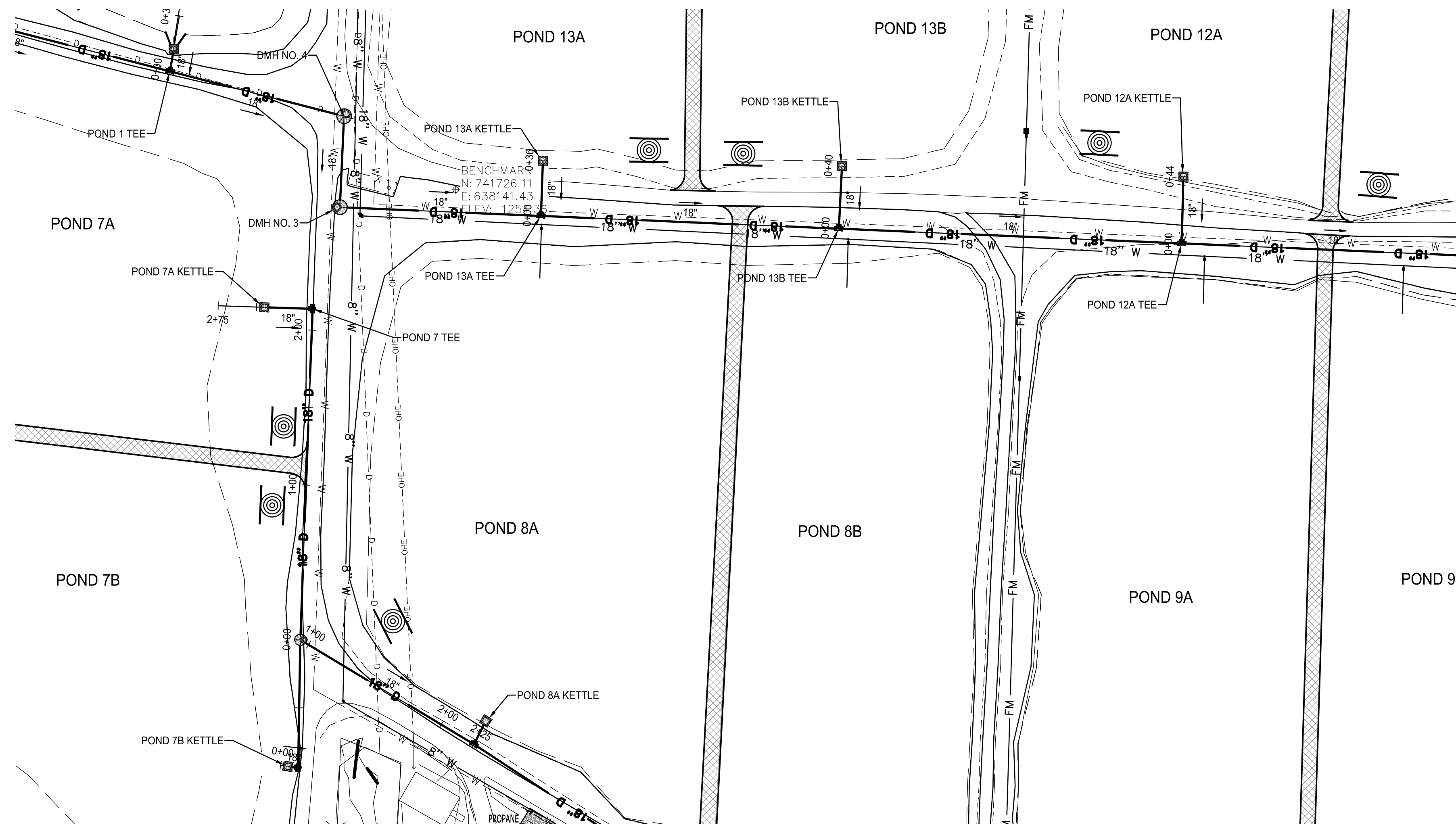
HP1,2,3 & POND-3,4  
 DRAIN LINE

Sheet Number:  
**C418**

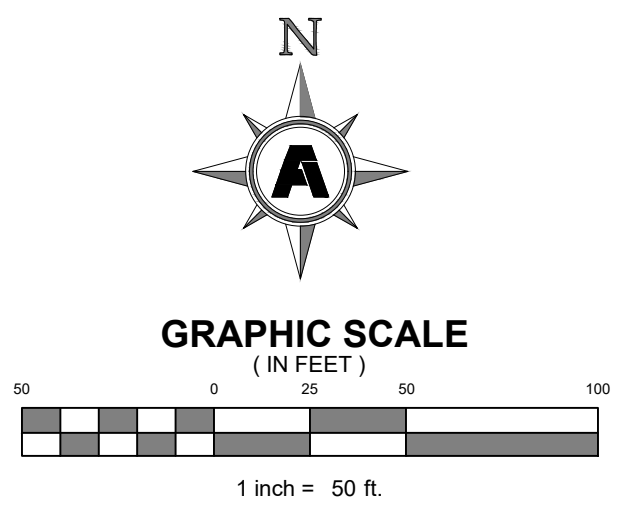
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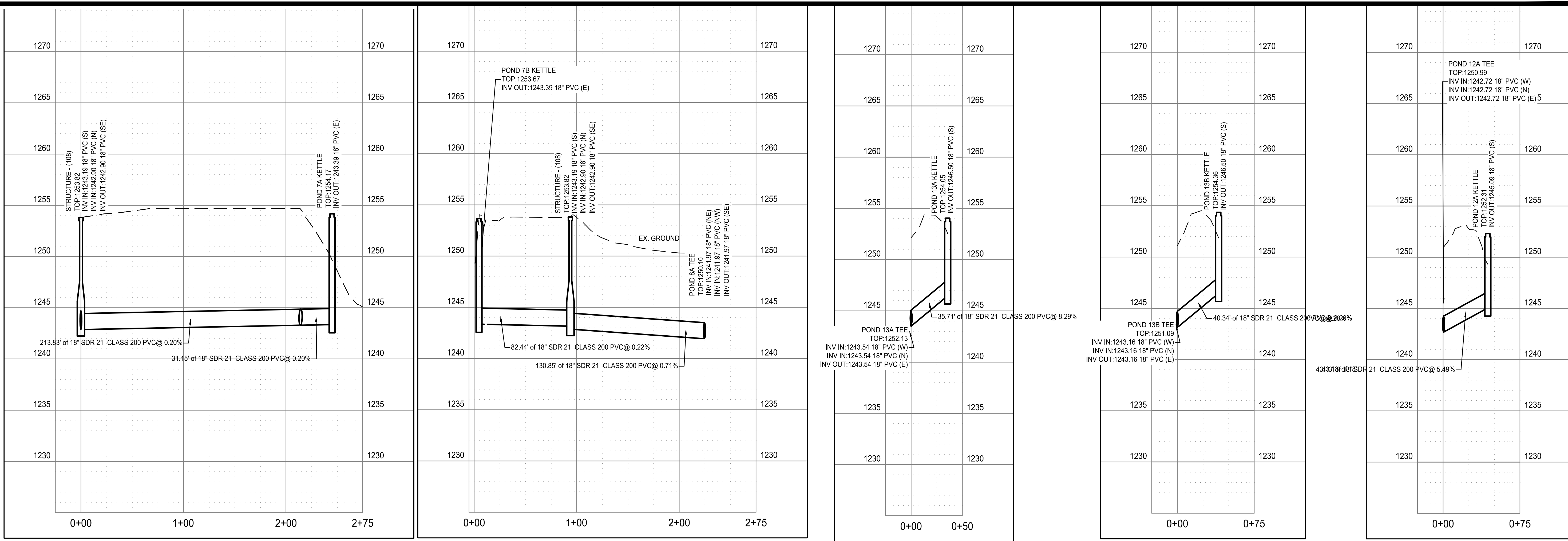
PLAN VIEW



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NOTE:  
ALL DRAINAGE MANHOLES (DMH) SHOWN ARE TO BE PRECAST 5' DIAMETER MANHOLES



PROFILE VIEW: POND-7A DRAIN

PROFILE VIEW: POND-7B DRAIN

PROFILE VIEW: POND-13A DRAIN

PROFILE VIEW: POND-13B DRAIN

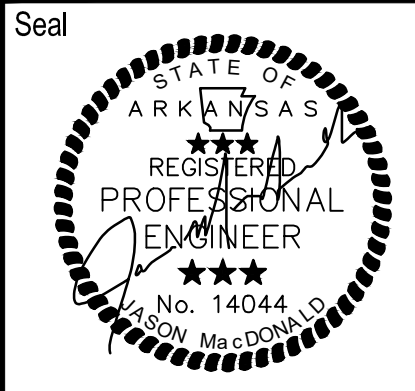
PROFILE VIEW: POND-12A DRAIN

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 Layout Name: C420\_POND 7B, 13A, 13B, 12A DRAIN LINE.dwg  
 Plotted: Wednesday, December 25, 2024 - 2:51 pm  
 By: jmacdonald

**FACILITY UPGRADES AT  
 CHARLIE CRAIG HATCHERY FOR  
 ARKANSAS GAME & FISH**  
 977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719

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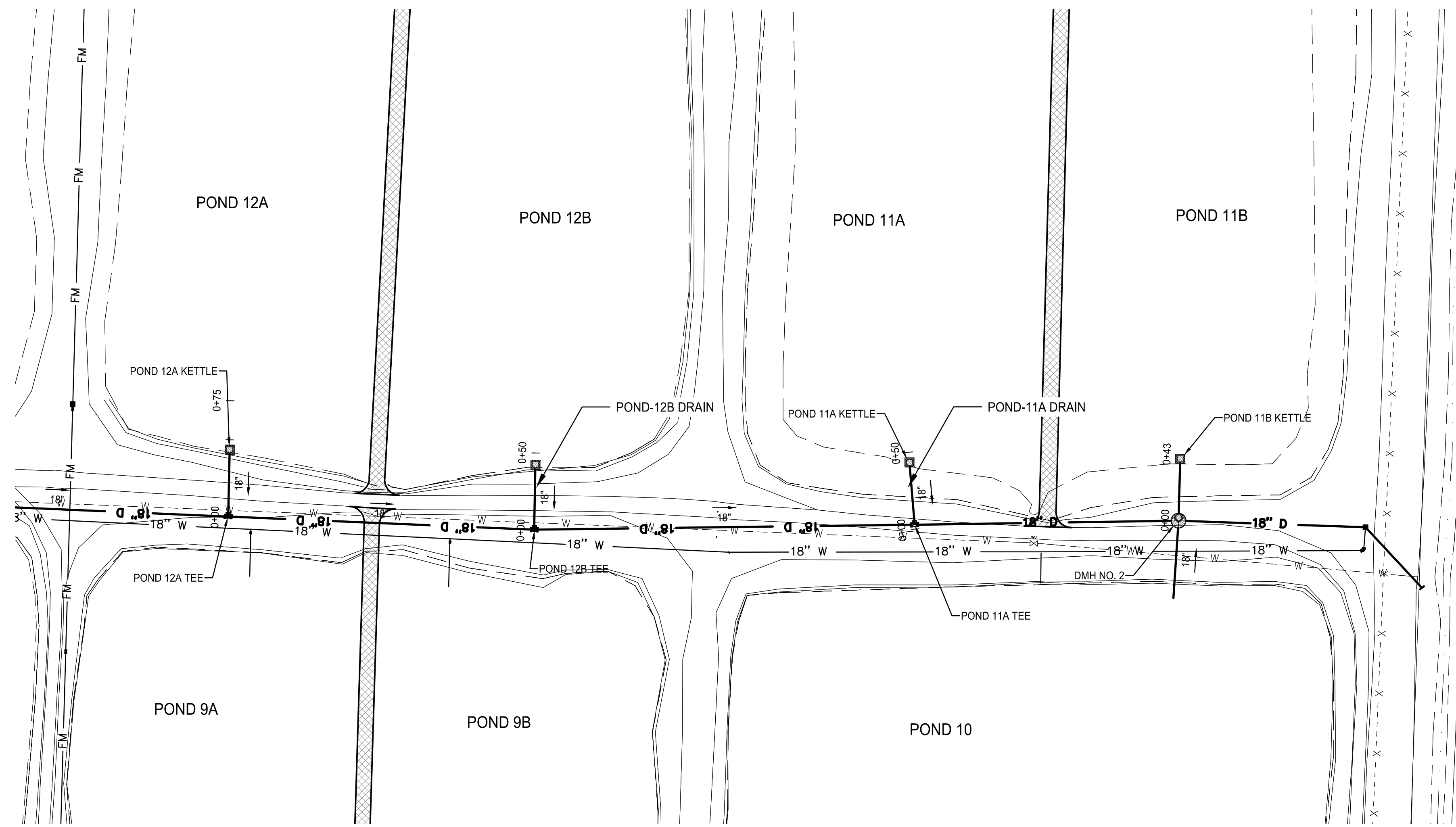
Rev.	Date	Revision Description



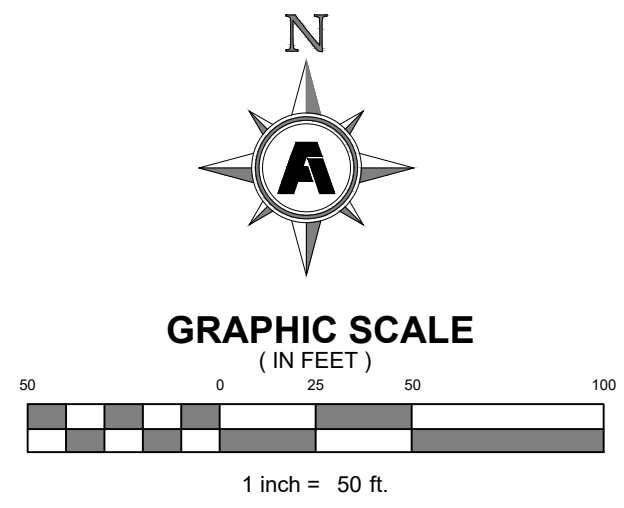
Issue Date:  
 Project No: ARKGAMEF.0003 WR  
 Drawn By: CCC  
 Checked By: JM  
 Sheet Title:

POND  
 7B, 13A, 13B, 12A  
 DRAIN LINE

Sheet Number:  
**C420**



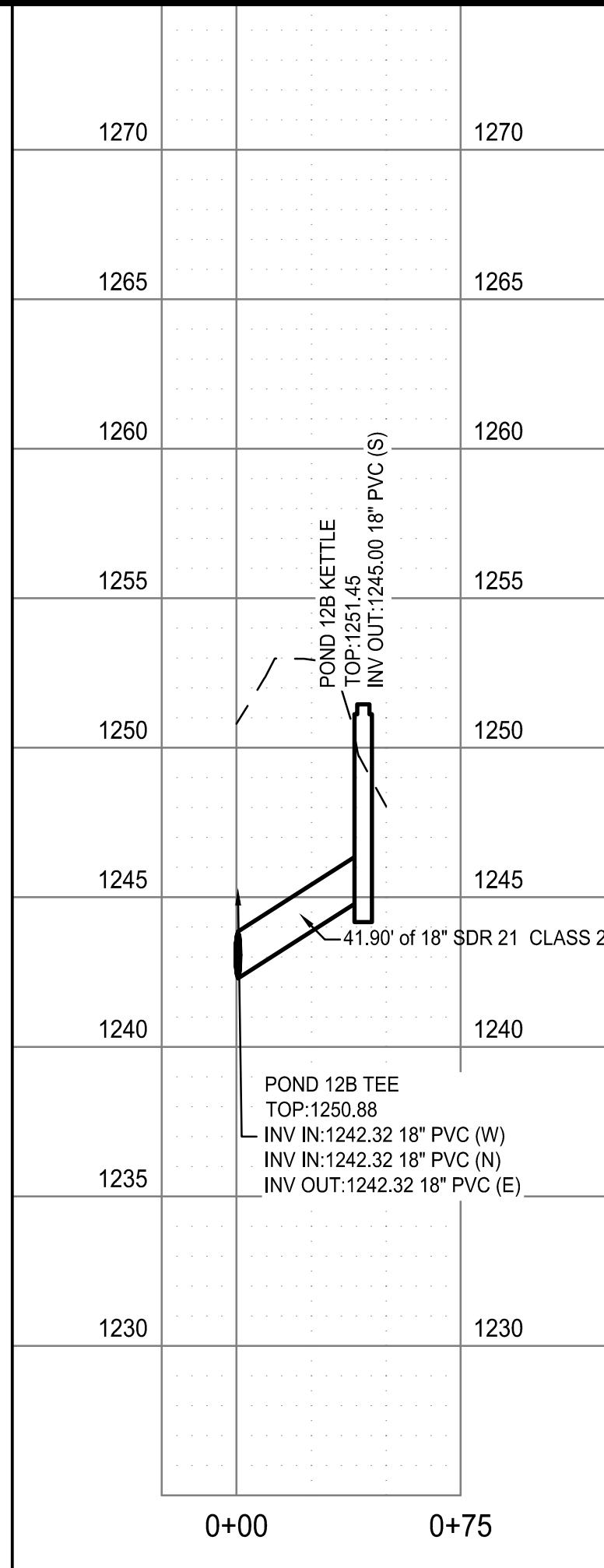
PLAN VIEW



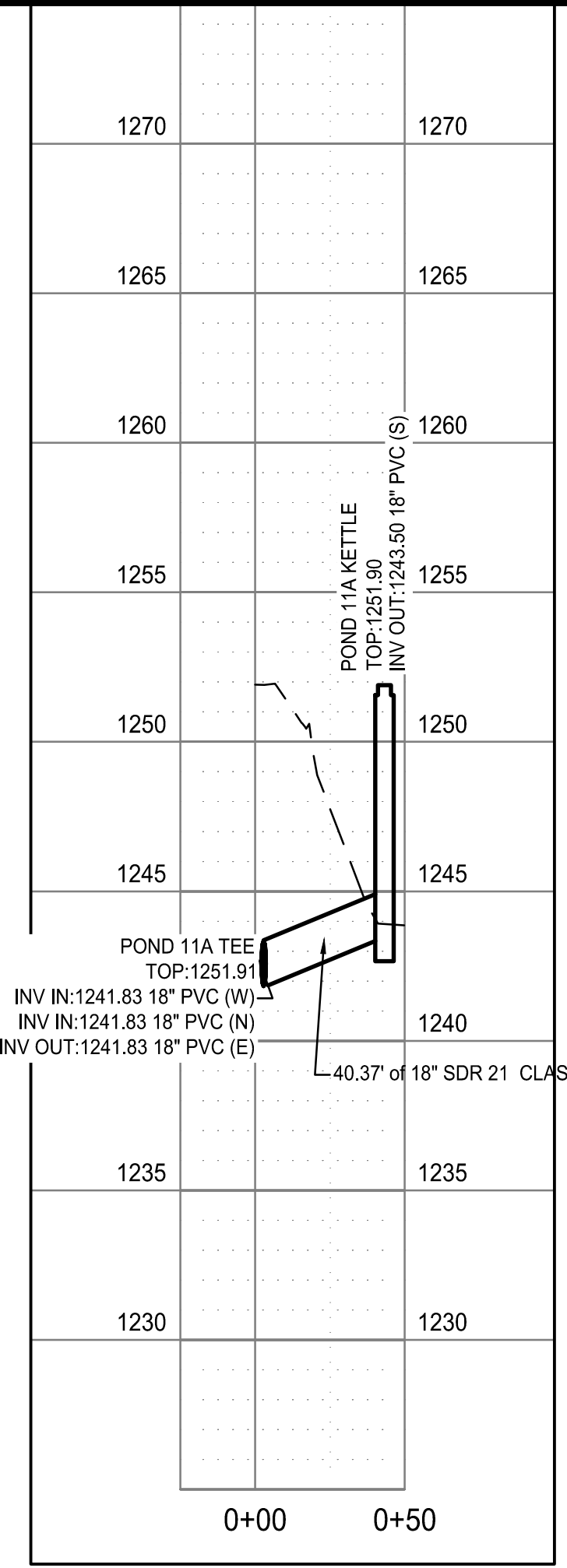
NOTE:  
CONTRACTOR RESPONSIBLE FOR ALL FITTINGS & COUPLINGS TO ATTAIN ALIGNMENT AS SHOWN ON THIS PLAN.

NOTE:  
CONTRACTOR RESPONSIBLE FOR ALL FITTINGS & COUPLINGS TO BE RESTRAINED BY MEGA LUGS AND THRUST BLOCKS.

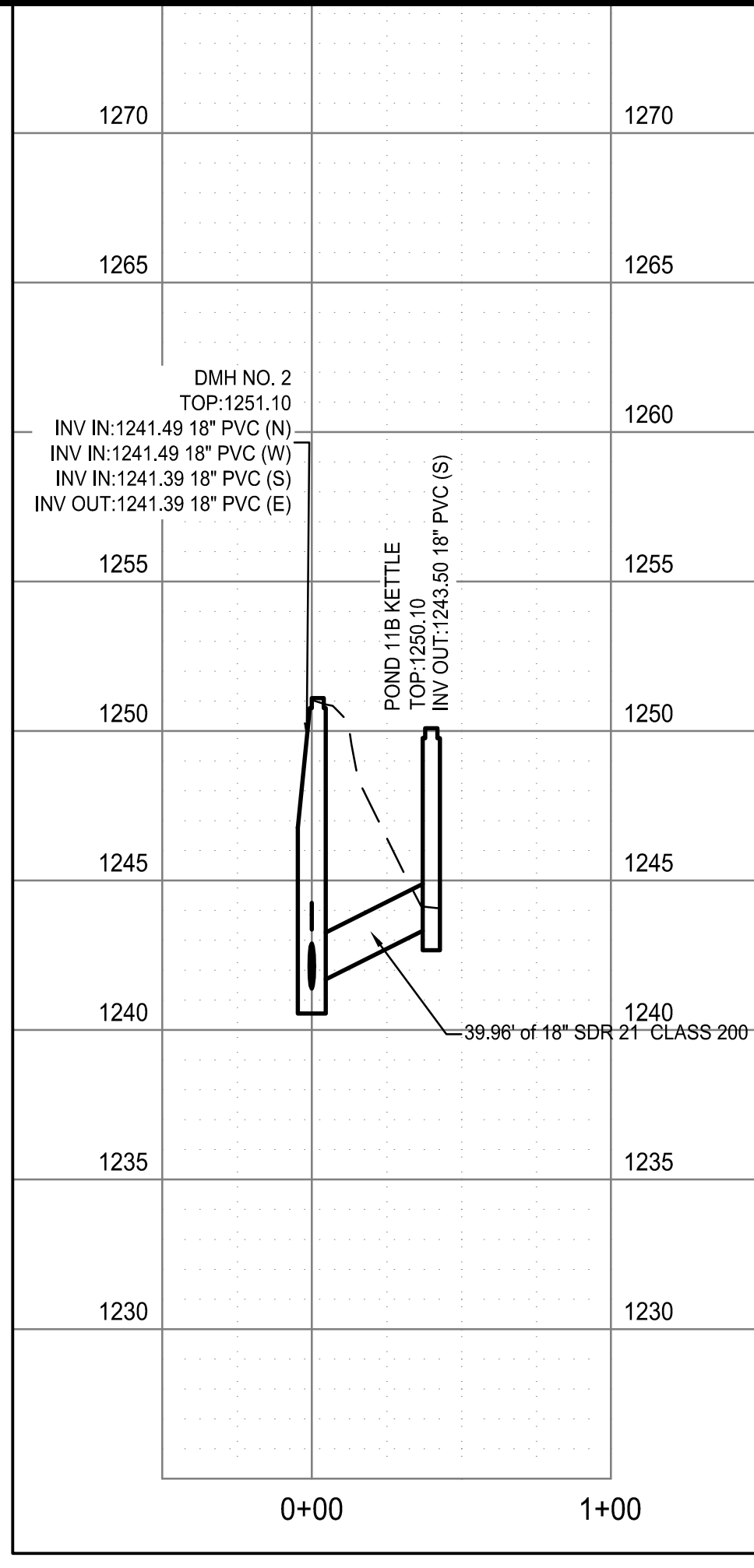
NOTE:  
ALL DRAINAGE MANHOLES (DMH) SHOWN ARE TO BE PRECAST 5' DIAMETER MANHOLES



PROFILE VIEW: POND-12B DRAIN



PROFILE VIEW: POND-11A DRAIN



PROFILE VIEW: POND-11B DRAIN

**FACILITY UPGRADES AT  
CHARLIE CRAIG HATCHERY FOR  
ARKANSAS GAME & FISH  
977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719**

Rev.	Date	Revision Description



Issue Date:  
Project No: ARKGAMEF.0003 WR  
Drawn By: CCC  
Checked By: JM  
Sheet Title:

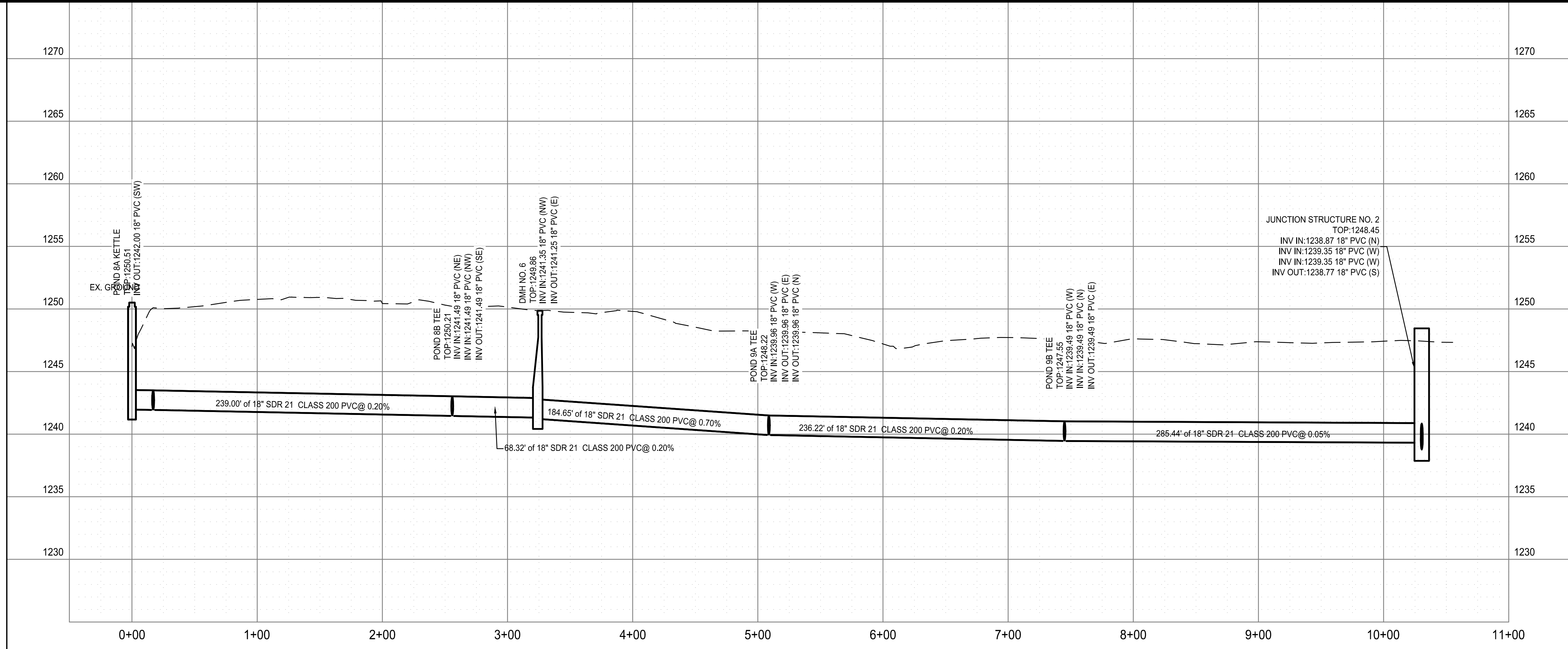
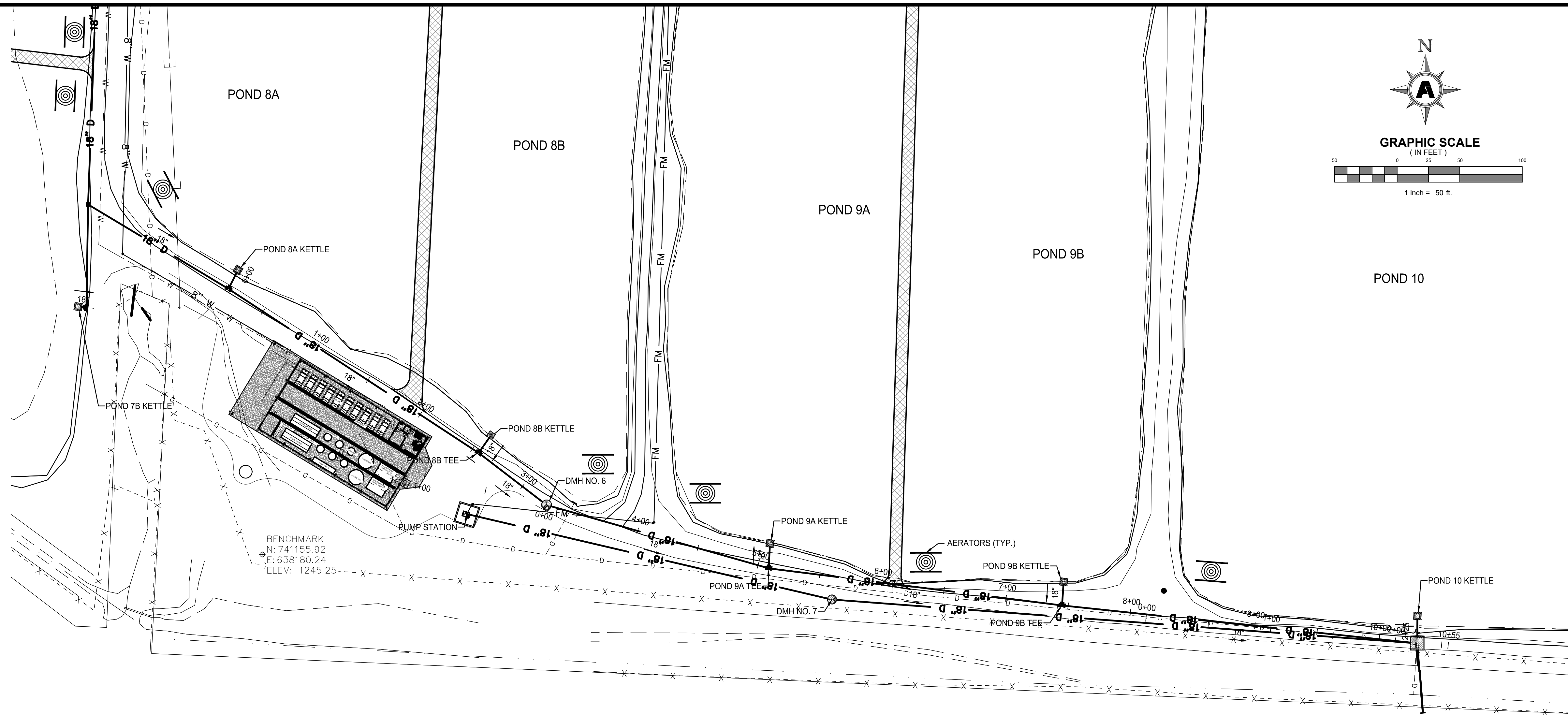
POND 12B, 11A, 11B  
DRAIN LINE

Sheet Number:  
**C421**

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Project Name: ARKGAMEF.0003 WR  
Layout Name: C421\_POND 12B, 11A, 11B DRAIN LINE  
Plotted: Thursday, December 26, 2024 - 7:48 am  
By: jmacdonald

NOTE:  
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NOTE:  
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 Layout Name: C422\_POND 8A TO POND 10  
 Plotted: Monday, December 23, 2024  
 By: jmacdonald

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 977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719

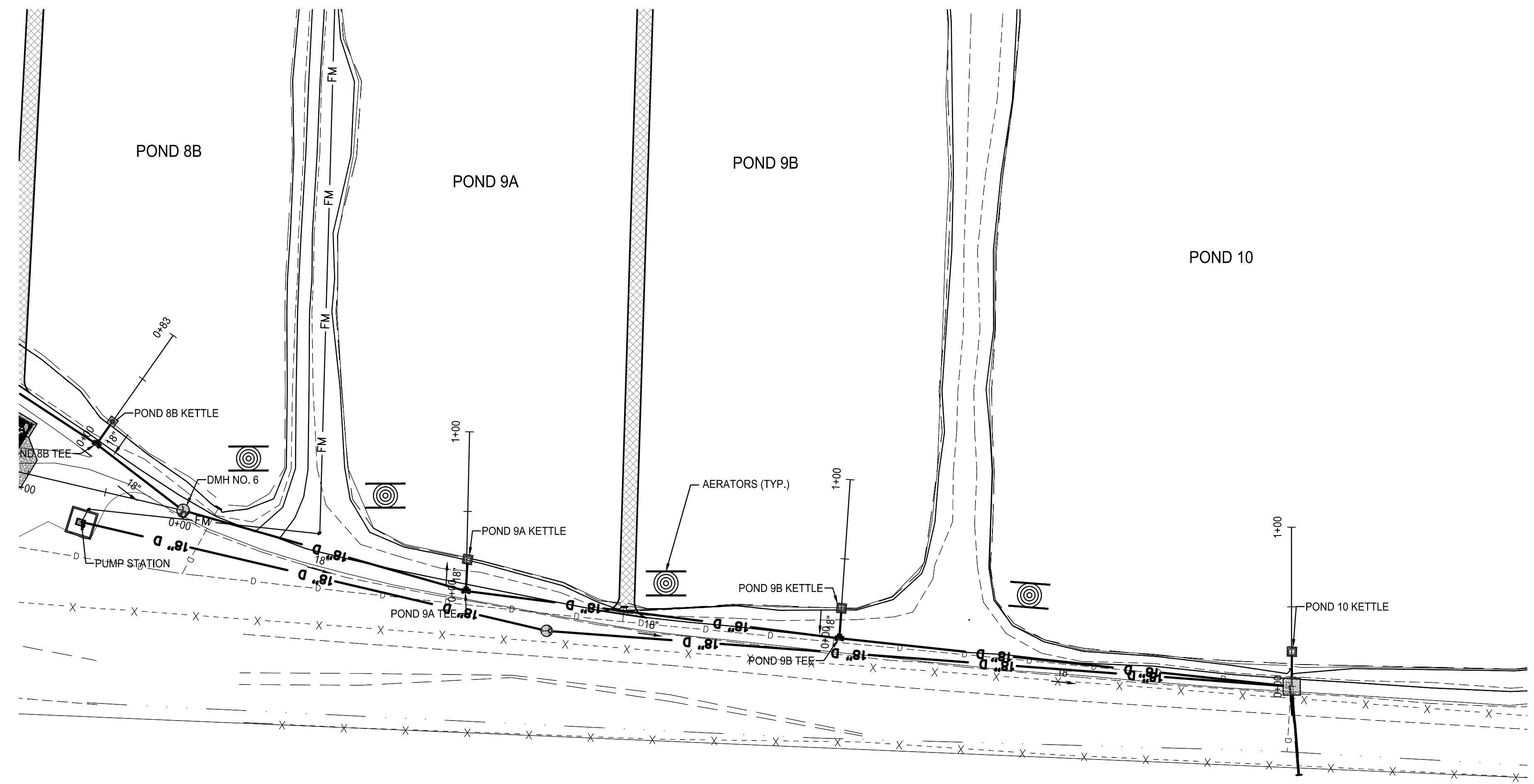
Rev.	Date	Revision Description



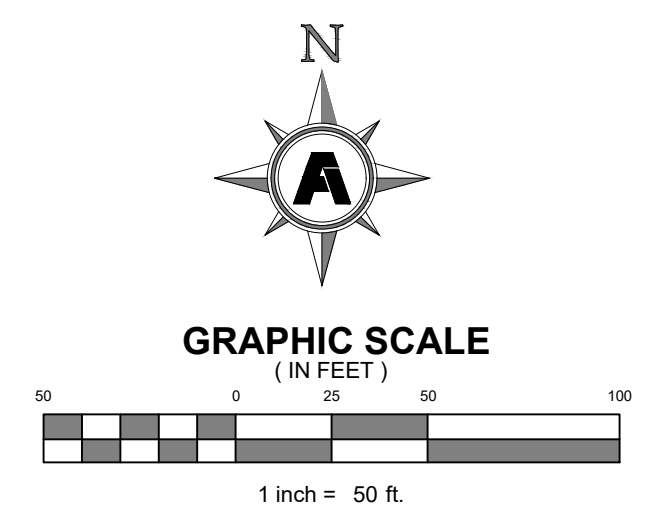
Issue Date:  
 Project No: ARKGAMEF.0003 WR  
 Drawn By: CCC  
 Checked By: JM  
 Sheet Title:

POND 8A TO POND 10

Sheet Number:  
**C422**



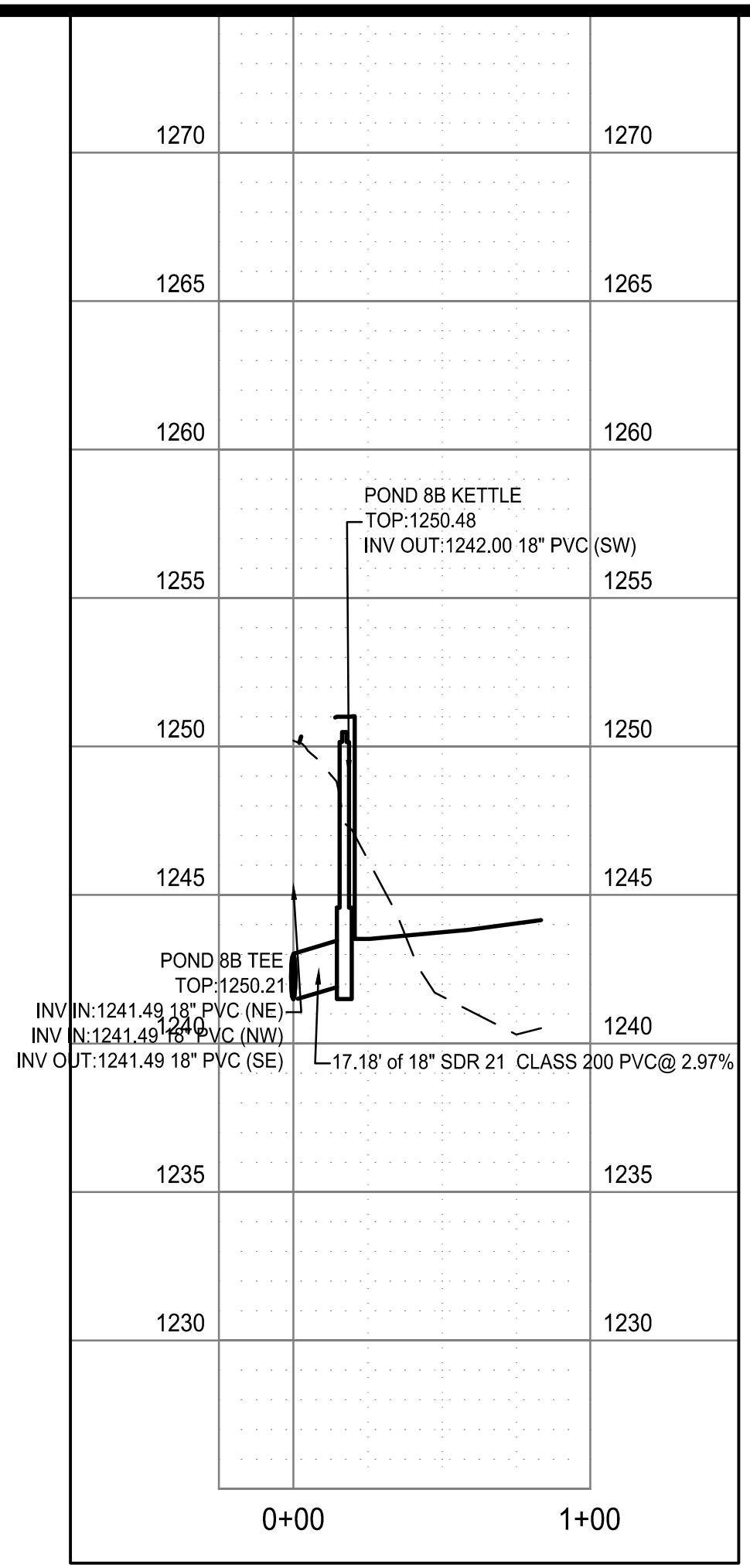
PLAN VIEW



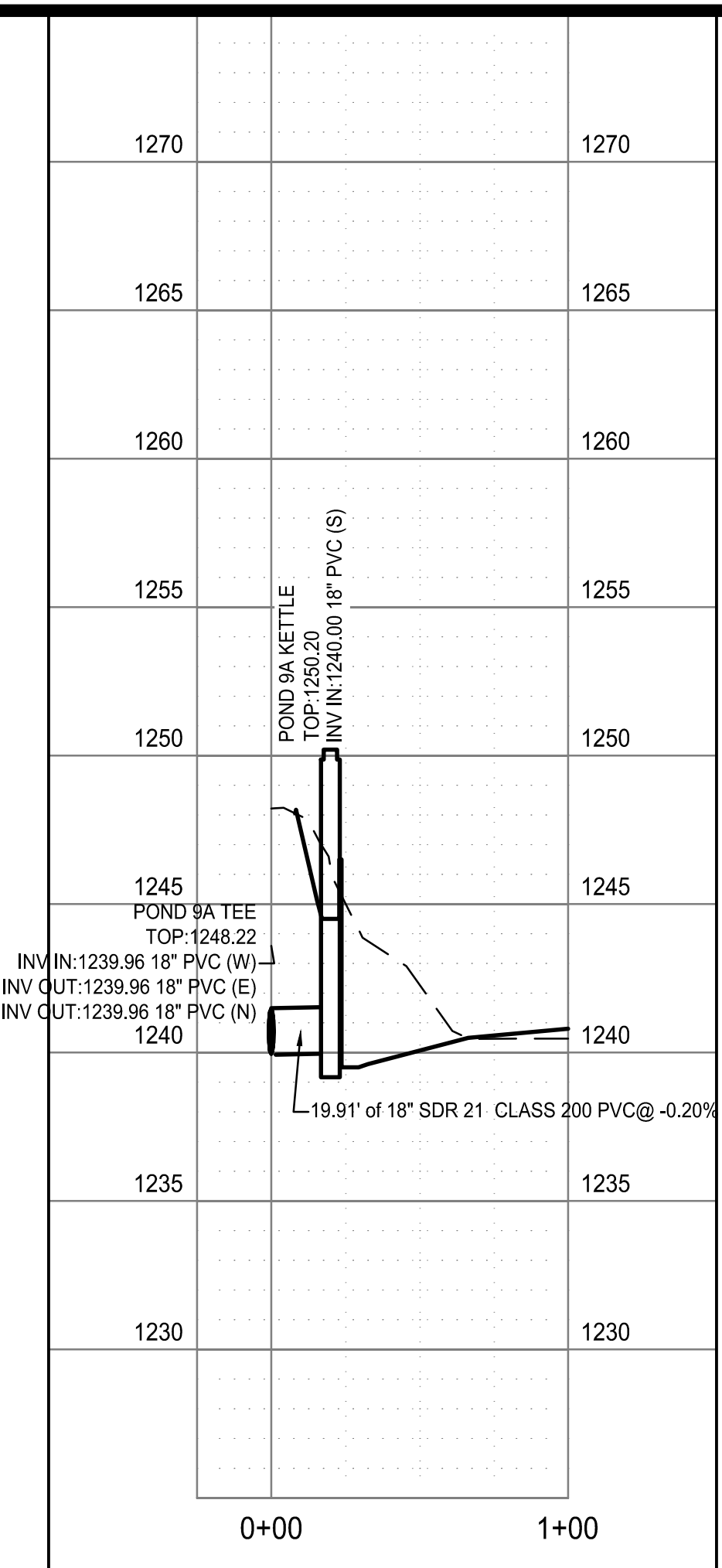
NOTE:  
CONTRACTOR RESPONSIBLE FOR ALL FITTINGS & COUPLINGS TO ATTAIN ALIGNMENT AS SHOWN ON THIS PLAN.

NOTE:  
CONTRACTOR RESPONSIBLE FOR ALL FITTINGS & COUPLINGS TO BE RESTRAINED BY MEGA LUGS AND THRUST BLOCKS.

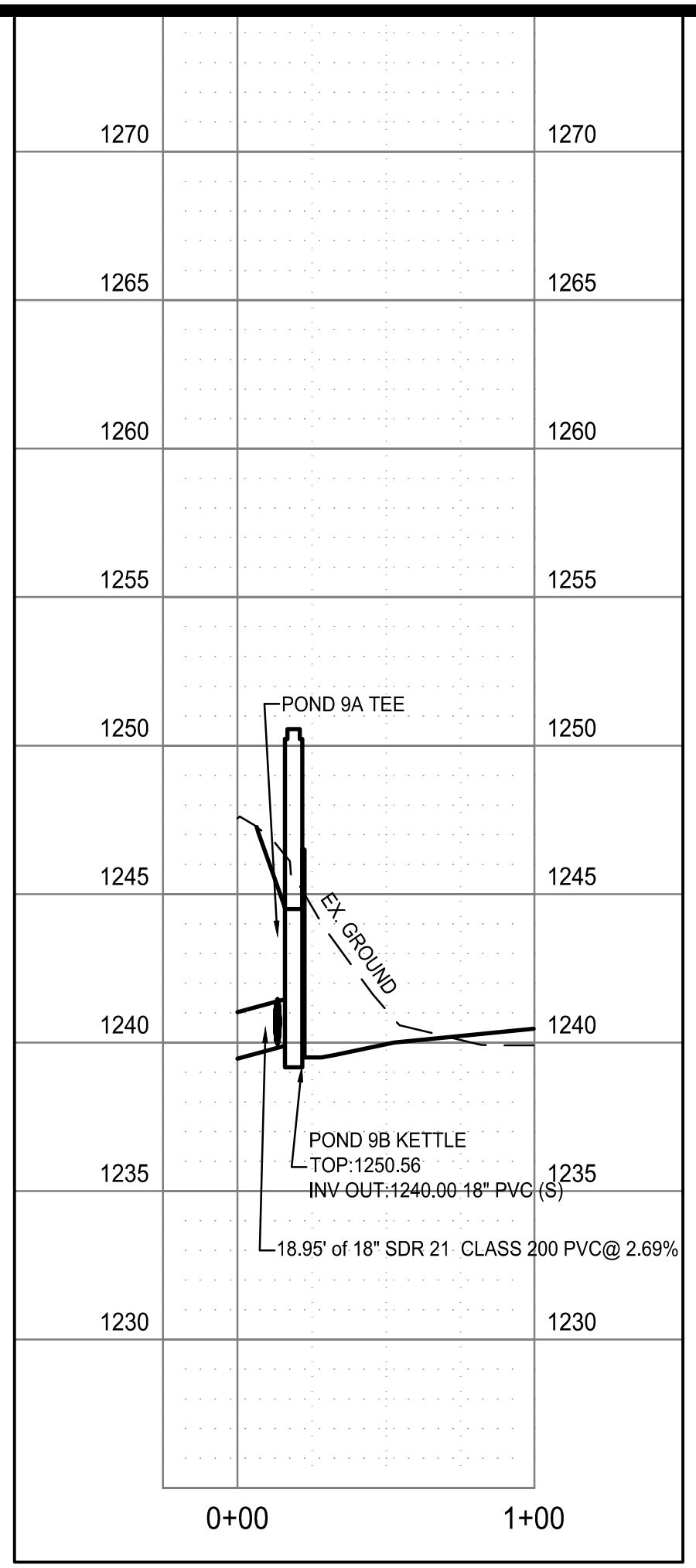
NOTE:  
ALL DRAINAGE MANHOLES (DMH) SHOWN ARE TO BE PRECAST 5' DIAMETER MANHOLES



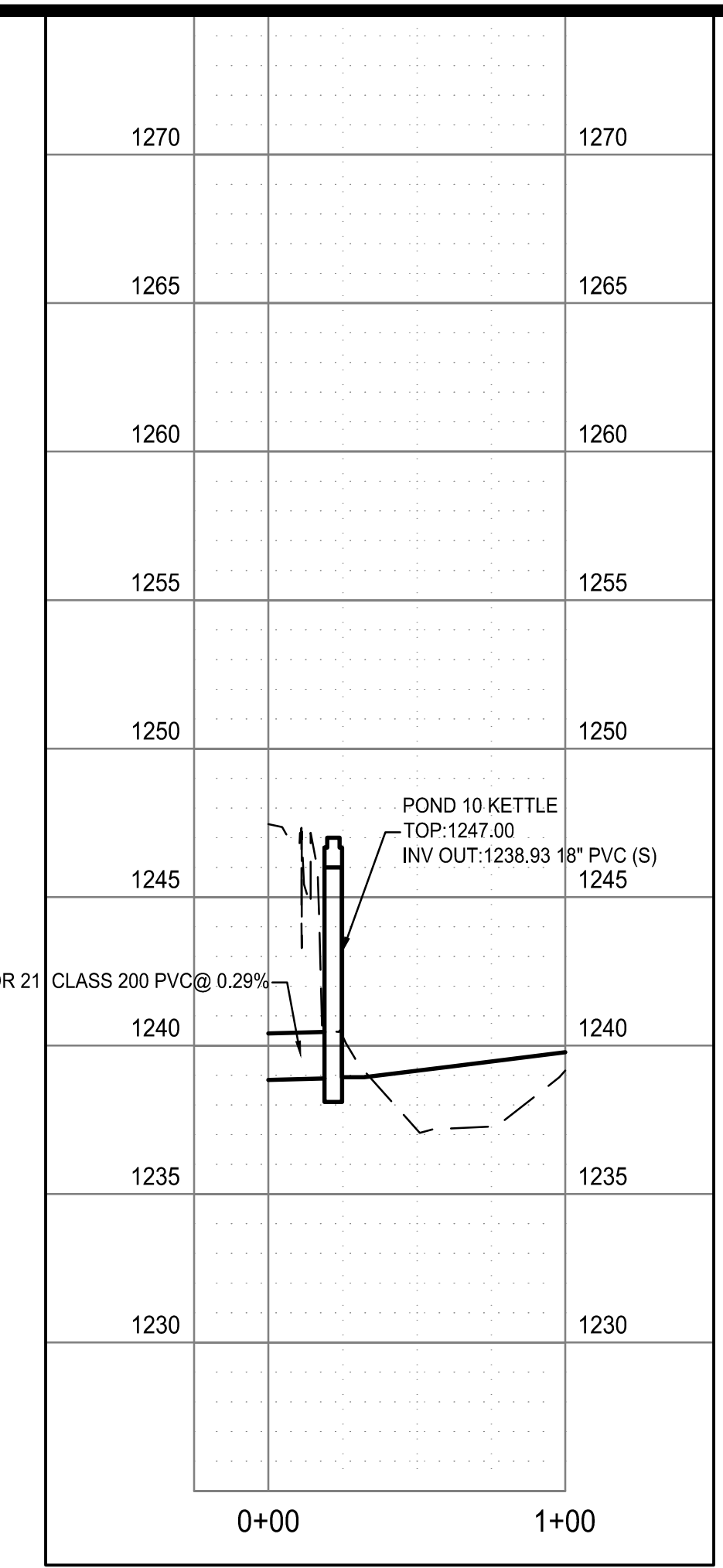
PROFILE VIEW: POND-8B DRAIN



PROFILE VIEW: POND-9A DRAIN



PROFILE VIEW: POND-9B DRAIN



PROFILE VIEW: POND-10 DRAIN

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 Layout Number: C423, POND 8B, 9A, 9B, 10.dwg  
 Plotted: Thursday, December 26, 2024 - 7:52 am  
 By: jmacdonald

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 977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719

Rev.	Date	Revision Description



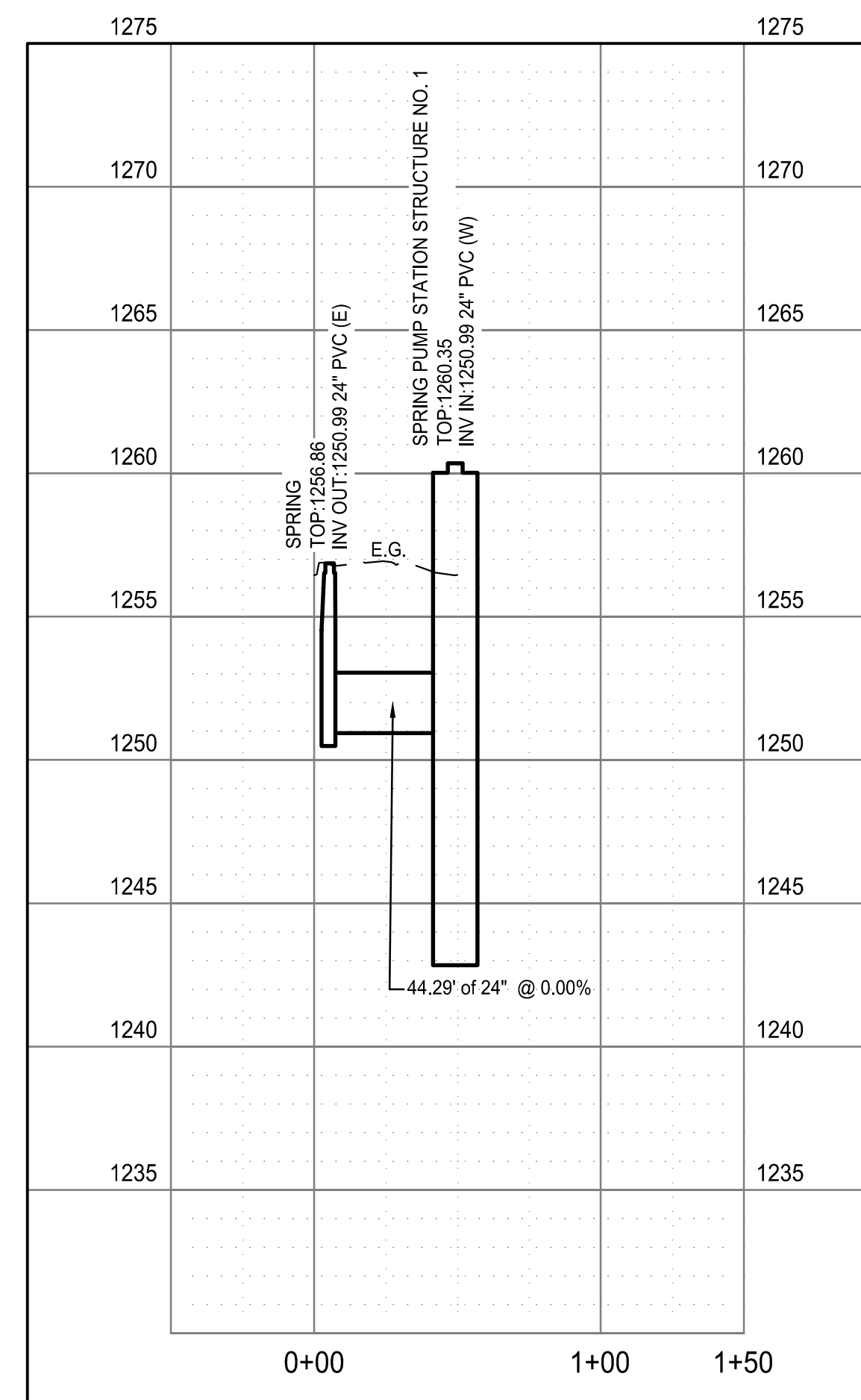
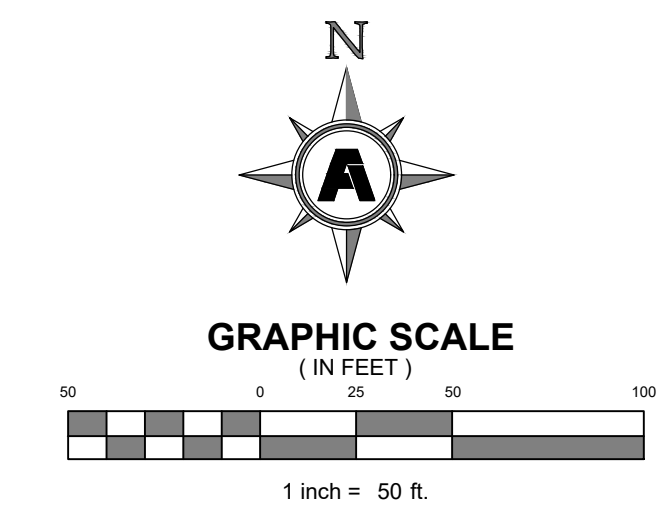
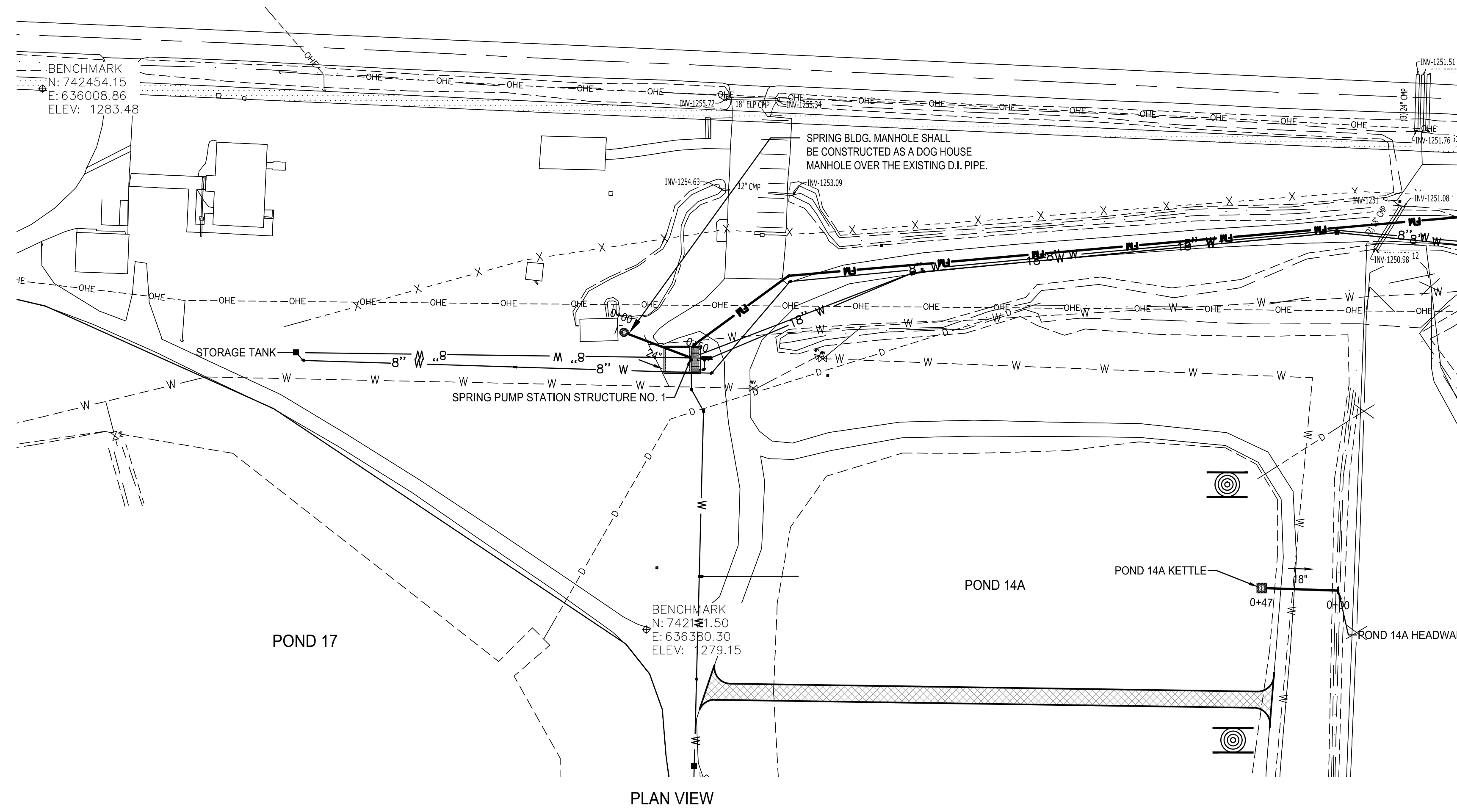
Issue Date:  
 Project No: ARKGAMEF.0003 WR  
 Drawn By: CCC  
 Checked By: JM  
 Sheet Title:

POND 8B, 9A, 9B, 10

Sheet Number:  
**C423**

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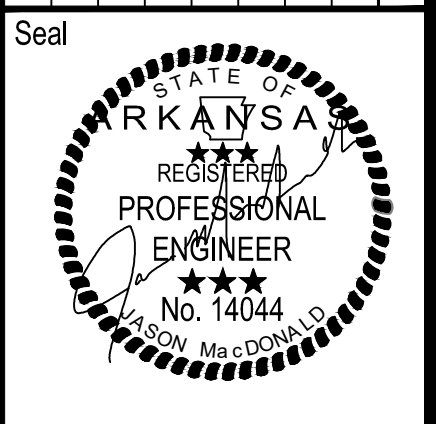
Copyright 2024 Fisher & Arnold, Inc., all rights reserved  
 Project: 003 WR - Charlie Craig Hatchery  
 Layout Name: C424 - DRAIN PIPE SPRING BLDG  
 Plotted: Sunday, December 29, 2024 - 11:50 pm  
 By: jmacdonald



PROFILE VIEW: PROPOSED SPRING BUILDING DRAIN

**FACILITY UPGRADES AT  
 CHARLIE CRAIG HATCHERY FOR  
 ARKANSAS GAME & FISH**  
 977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719

Rev.	Date	Revision Description



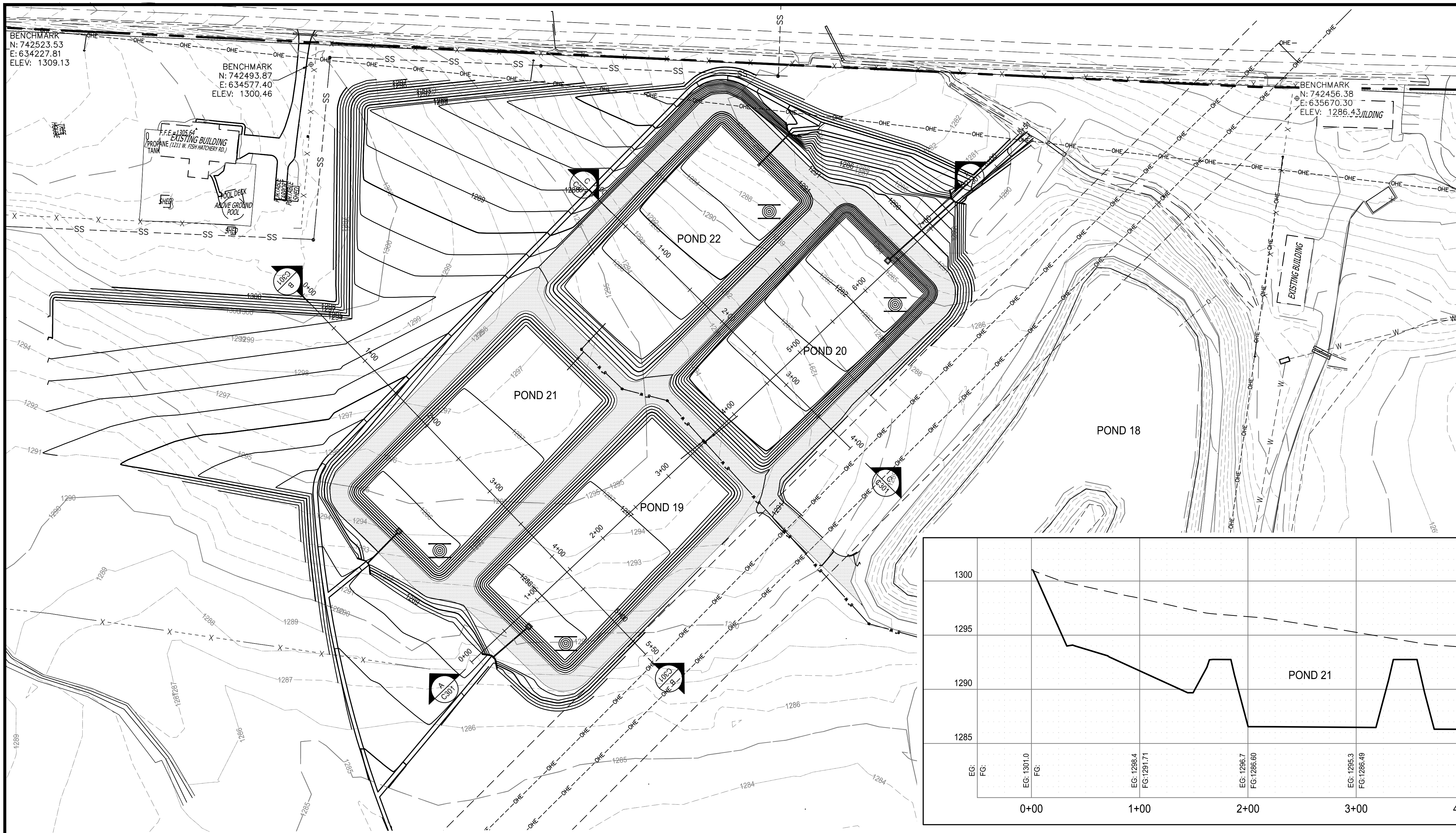
Issue Date:  
 Project No: ARKGAMEF.0003 WR  
 Drawn By: CCC  
 Checked By: JM  
 Sheet Title:

**DRAIN PIPE SPRING  
 BLDG**

Sheet Number:  
**C424**

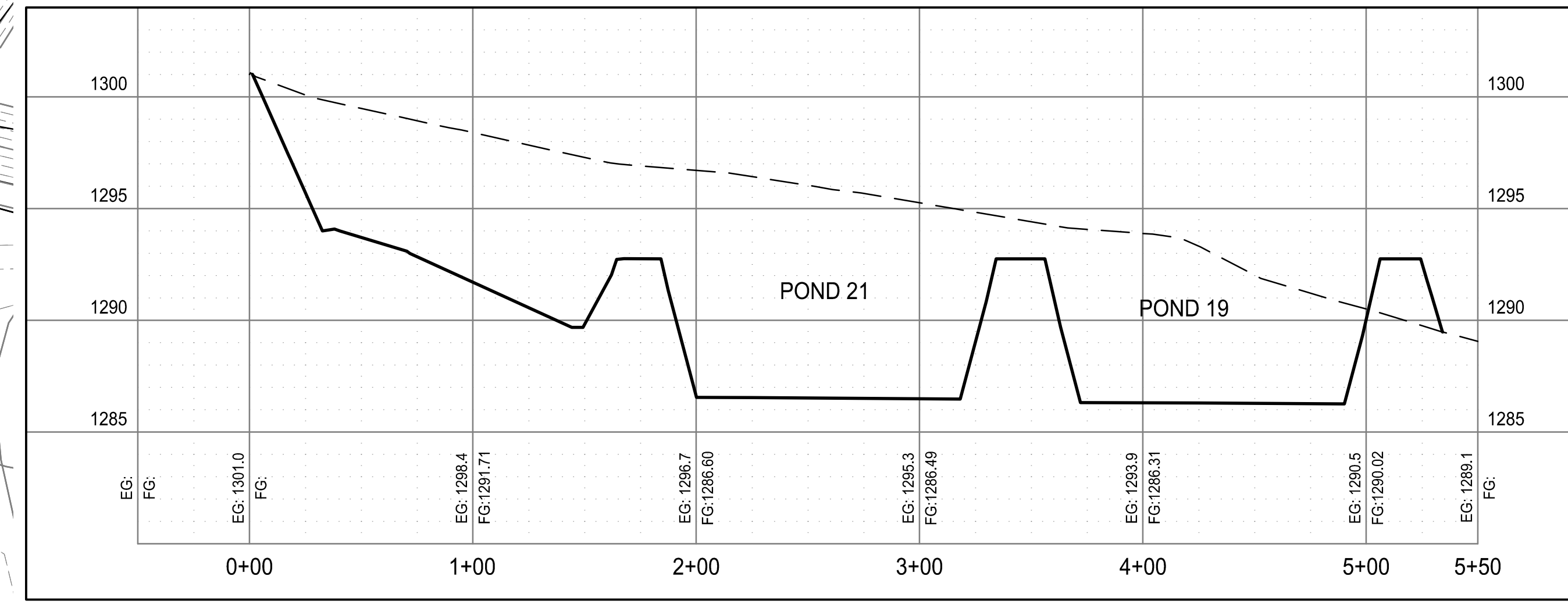
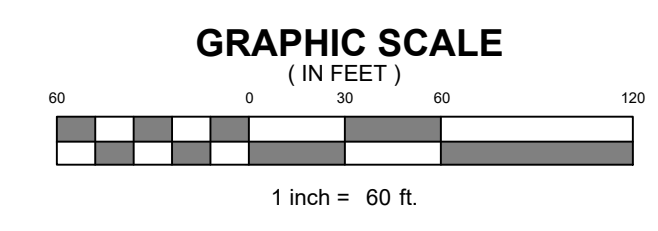
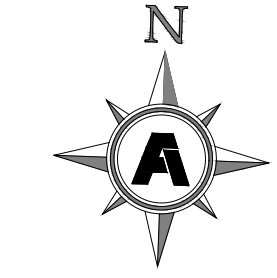
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 Layout Name: C500 OVERALL GRADING PLAN (1 OF 3)  
 Plotted: Friday, December 27, 2024 - 10:28 am  
 By: jmcDonald

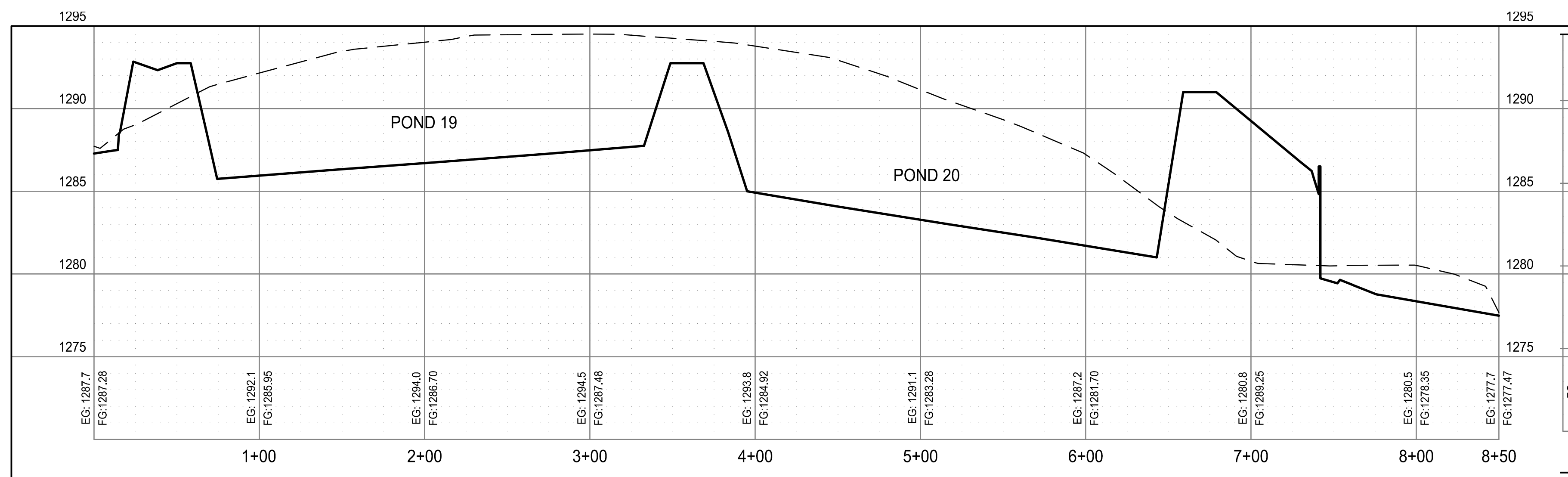


TBM:  
 TEMPORARY BENCHMARK IS THE TOP  
 OF A SMH LOCATED AT THE  
 WESTERN END OF THE SITE.  
 MANHOLE TOP ELEV.=1302.22'

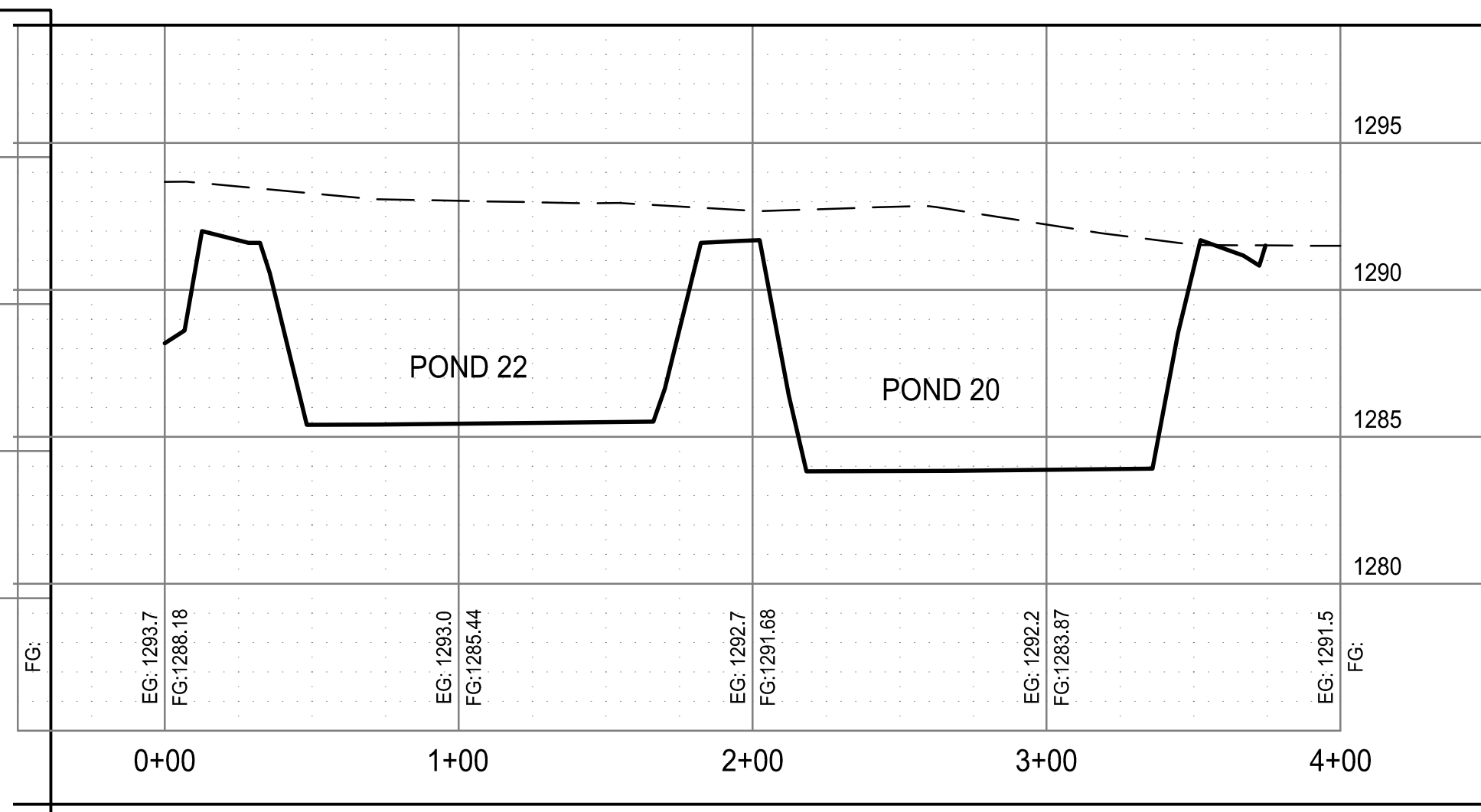
FLOOD NOTE:  
 ACCORDING TO FEMA FLOOD PANEL  
 05007C0235K, WITH AN EFFECTIVE DATE  
 OF JUNE 5, 2012, THIS AREA IS IN A  
 "SPECIAL FLOOD HAZARD" AREA.



**B**  
 C1.01 POND 19 & 21  
 SECTION  
 1" = 5'



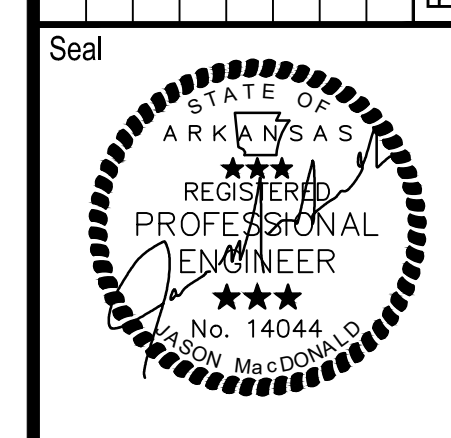
**A**  
 C1.01 POND 19 & 20  
 CROSS SECTION  
 1" = 5'



**C**  
 C1.01 POND 20 & 22  
 SECTION  
 1" = 5'

**FACILITY UPGRADES AT  
 CHARLIE CRAIG HATCHERY FOR  
 ARKANSAS GAME & FISH  
 977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719**

Rev.	Date	Revision Description



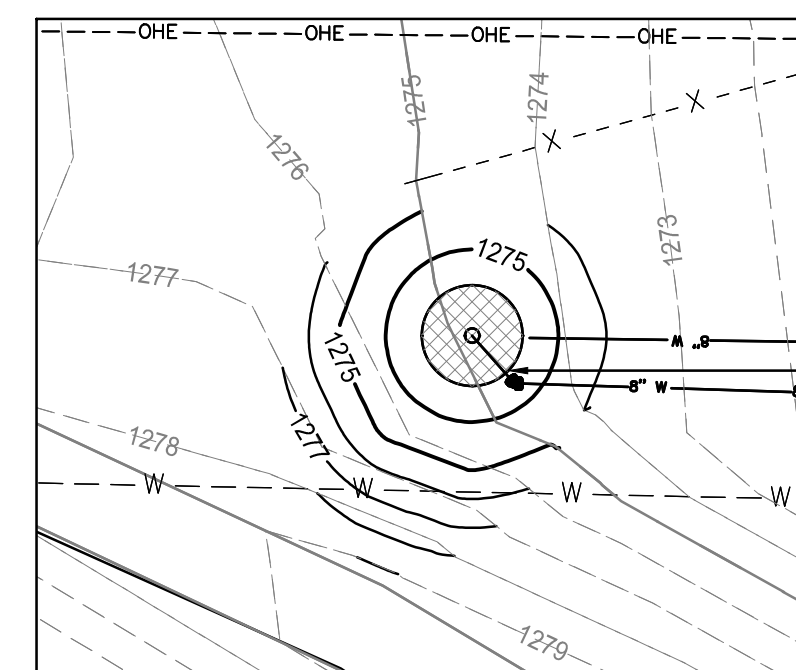
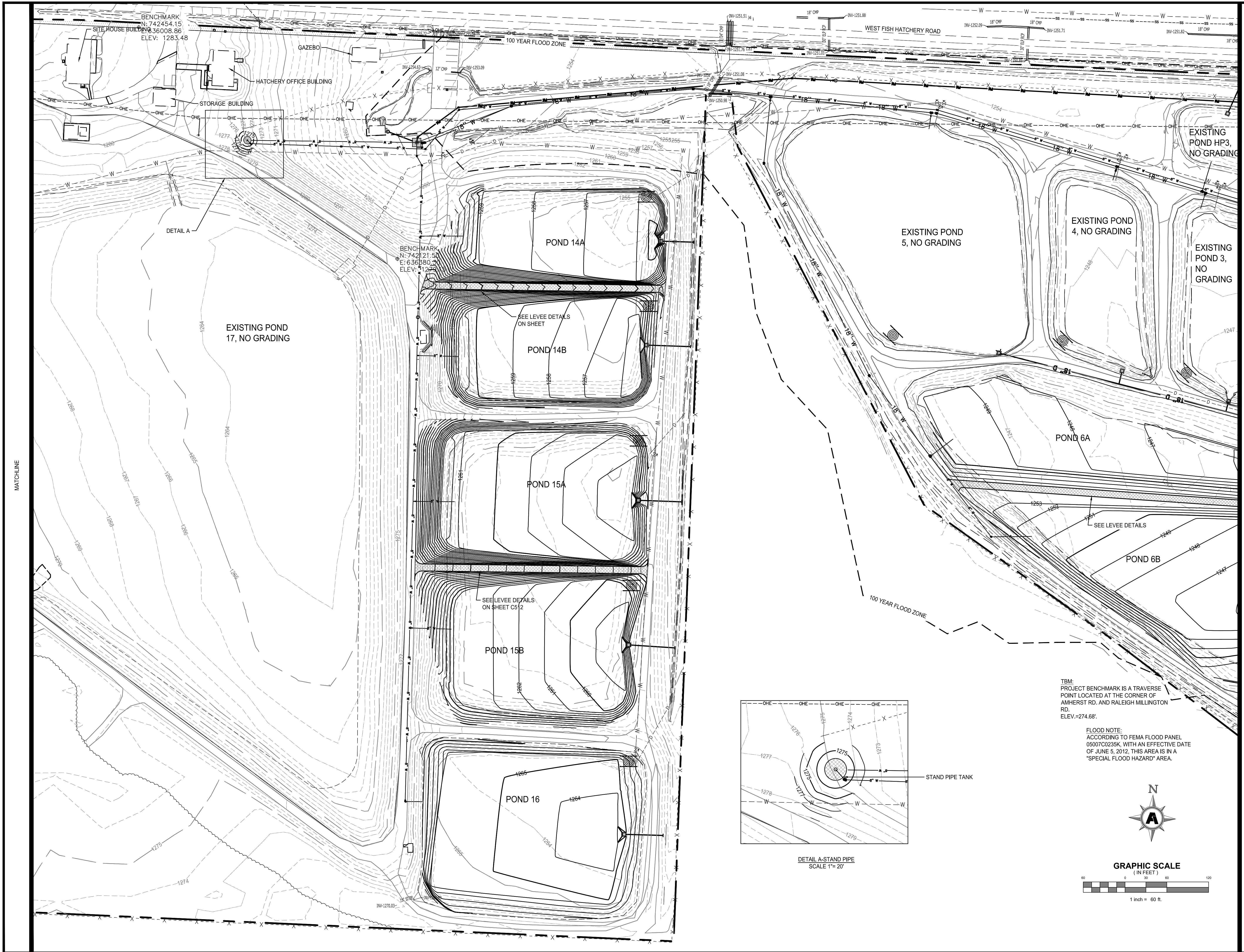
Issue Date: 12/27/24  
 Project No: ARKGAMEF.0003 WR  
 Drawn By: CCC  
 Checked By: JM  
 Sheet Title:

**OVERALL  
 GRADING PLAN (1  
 OF 3)**

Sheet Number:  
**C500**

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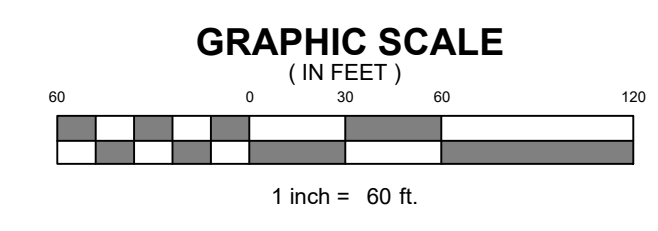
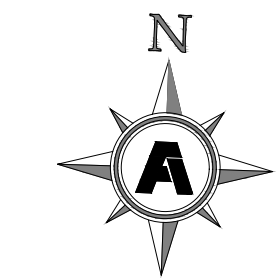
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 Layout Name: C500 OVERALL GRADING PLAN (2 OF 3)  
 Plotted: Friday, December 27, 2024 - 9:56 am  
 By: jmcconnald



DETAIL A-STAND PIPE  
 SCALE 1"=20'

TBM:  
 PROJECT BENCHMARK IS A TRAVERSE  
 POINT LOCATED AT THE CORNER OF  
 AMHERST RD. AND RALEIGH MILLINGTON  
 RD.  
 ELEV.=274.68'

FLOOD NOTE:  
 ACCORDING TO FEMA FLOOD PANEL  
 05007C0235K, WITH AN EFFECTIVE DATE  
 OF JUNE 5, 2012, THIS AREA IS IN A  
 "SPECIAL FLOOD HAZARD" AREA.



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FACILITY UPGRADES AT  
 CHARLIE CRAIG HATCHERY FOR  
 ARKANSAS GAME & FISH

977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719

Rev.	Date	Revision Description

Seal

Issue Date: 12/27/24  
 Project No: ARKGAMEF.0003 WR  
 Drawn By: CCC  
 Checked By: JM  
 Sheet Title:

OVERALL  
 GRADING PLAN (2  
 OF 3)

Sheet Number:  
**C501**



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 Location: \\V:\Projects\2024\2024-0003\WR\CAD\Plans\C500 OVERALL GRADING PLAN (1 OF 3).dwg  
 Layout Name: C500 (3)  
 Plotted: Friday, December 27, 2024 - 9:11 am  
 By: jmacdonald



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 CHARLIE CRAIG HATCHERY FOR  
 ARKANSAS GAME & FISH**  
 977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719

Rev.	Date	Revision Description

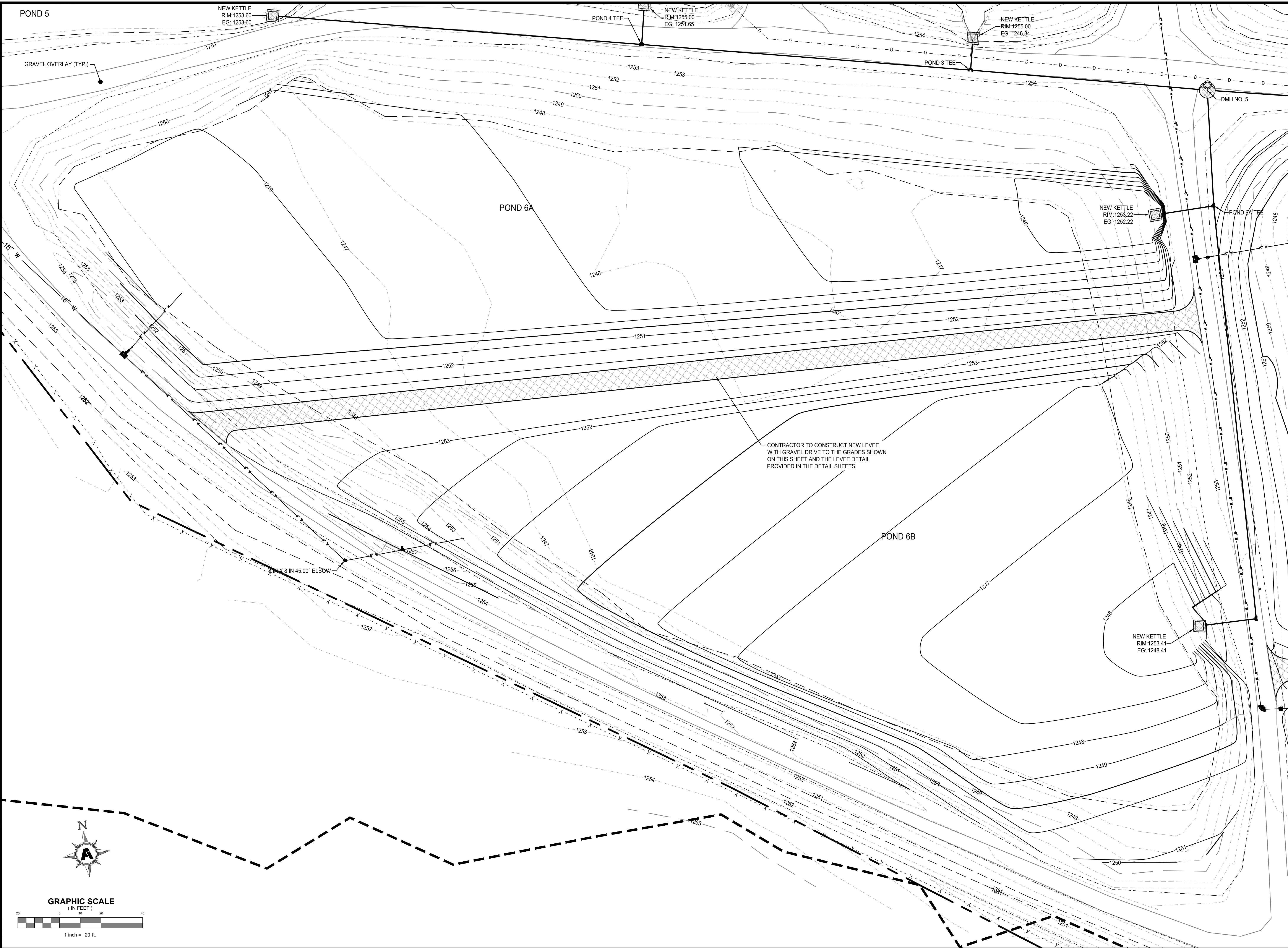


Issue Date: 12/27/24  
 Project No: ARKGAMEF.0003 WR  
 Drawn By: CCC  
 Checked By: JM  
 Sheet Title:

OVERALL  
 GRADING PLAN (3  
 OF 3)

Sheet Number:  
**C502**

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 Layout Name: POND\_6  
 Plotted: Friday, December 27, 2024 - 10:30 am  
 By: jmacdonald



POND 5  
 NEW KETTLE  
 RIM: 1253.60  
 EG: 1253.60

POND 4 TEE  
 NEW KETTLE  
 RIM: 1255.00  
 EG: 1251.65

NEW KETTLE  
 RIM: 1255.00  
 EG: 1246.84

POND 6A

NEW KETTLE  
 RIM: 1253.22  
 EG: 1252.22

POND 6A TEE

CONTRACTOR TO CONSTRUCT NEW LEVEE  
 WITH GRAVEL DRIVE TO THE GRADES SHOWN  
 ON THIS SHEET AND THE LEVEE DETAIL  
 PROVIDED IN THE DETAIL SHEETS.

POND 6B

NEW KETTLE  
 RIM: 1253.41  
 EG: 1248.41

GRAVEL OVERLAY (TYP.)

18" W

18" W

18" W

18" W

18" W

18" W

18" W

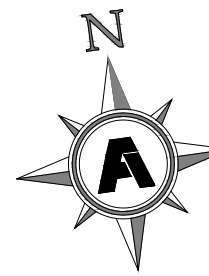
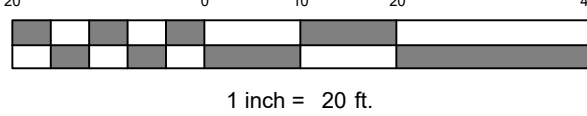
18" W

18" W

18" W

18" W

GRAPHIC SCALE  
 (IN FEET)



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 CHARLIE CRAIG HATCHERY FOR  
 ARKANSAS GAME & FISH**  
 977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719

Rev.	Date	Revision Description



Issue Date: 12/27/24  
 Project No: ARKGAMEF.0003 WR  
 Drawn By: CCC  
 Checked By: JM

Sheet Title:  
**GRADING PLAN  
 (POND 6)**

Sheet Number:  
**C503**

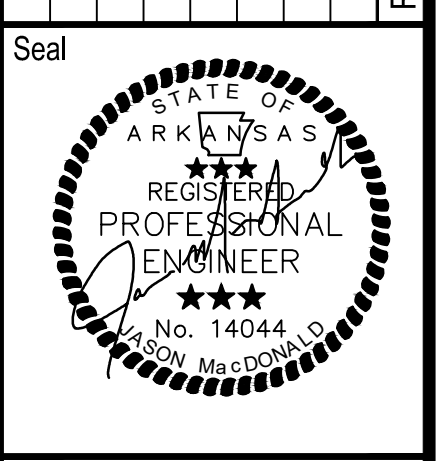
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 Layout Name: POND\_19.mxd  
 Plotted: Friday, December 27, 2024 - 10:31 am  
 By: jmacdonald



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 977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719**

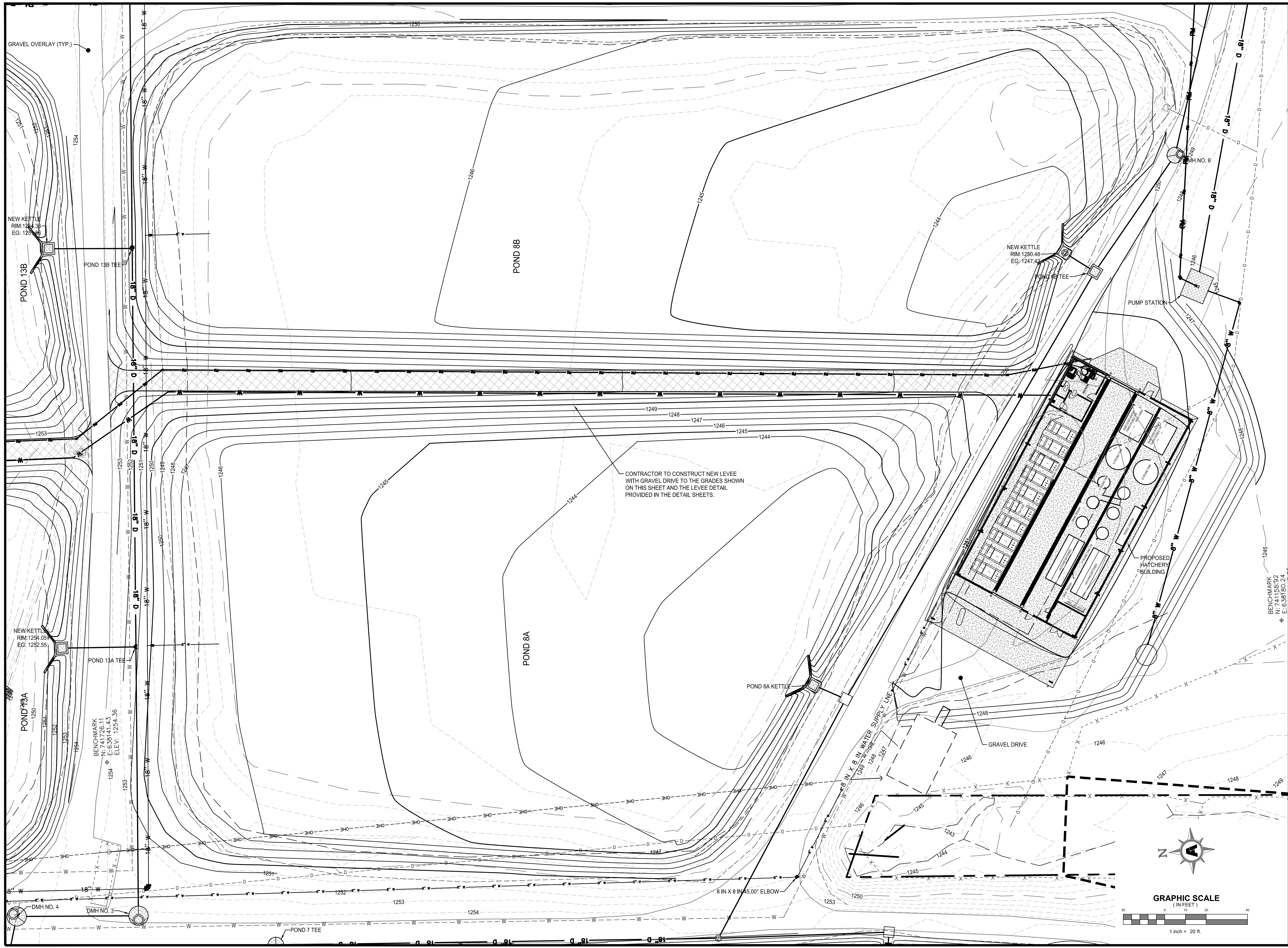
Rev.	Date	Revision Description



Issue Date: 12/27/24  
 Project No: ARKGAMEF.0003 WR  
 Drawn By: CCC  
 Checked By: JM  
 Sheet Title:

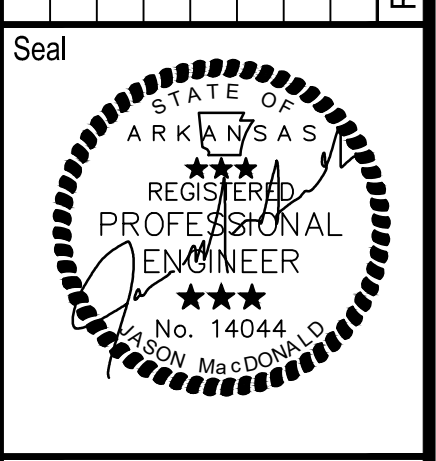
**GRADING PLAN  
 (POND 7)**  
 Sheet Number:  
**C504**

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 Layout Name: POND 8  
 Plotted: Friday, December 27, 2024 - 10:32 am  
 By: jmacdonald



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 977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719

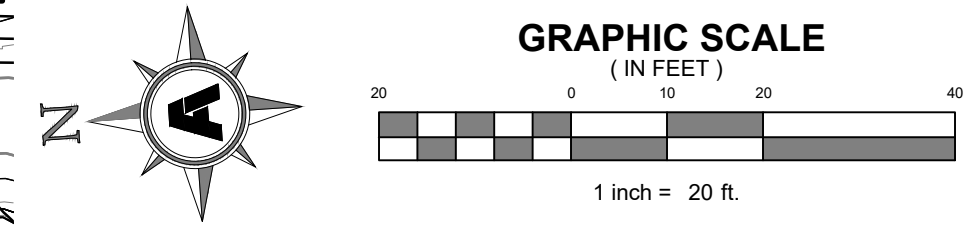
Rev.	Date	Revision Description



Issue Date: 12/27/24  
 Project No: ARKGAMEF.0003 WR  
 Drawn By: CCC  
 Checked By: JM  
 Sheet Title:

**GRADING PLAN  
 (POND 8)**  
 Sheet Number:  
**C505**

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 Layout Name: POND\_9A  
 Plotted: Friday, December 27, 2024 - 10:33 am  
 By: jmacdonald



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 CHARLIE CRAIG HATCHERY FOR  
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 977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719

Rev.	Date	Revision Description

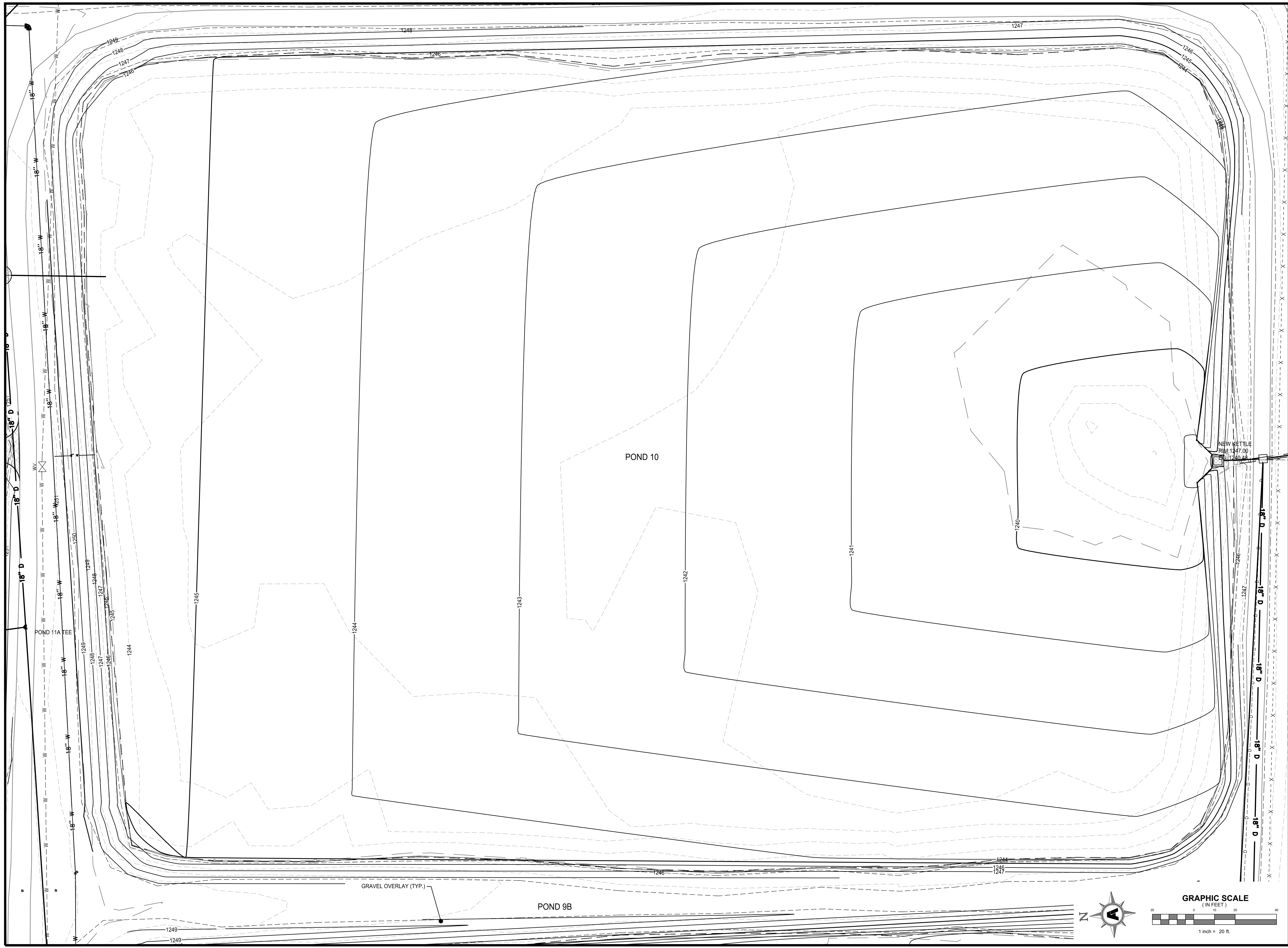


Issue Date: 12/27/24  
 Project No: ARKGAMEF.0003 WR  
 Drawn By: CCC  
 Checked By: JM  
 Sheet Title:

**GRADING PLAN  
 (POND 9)**

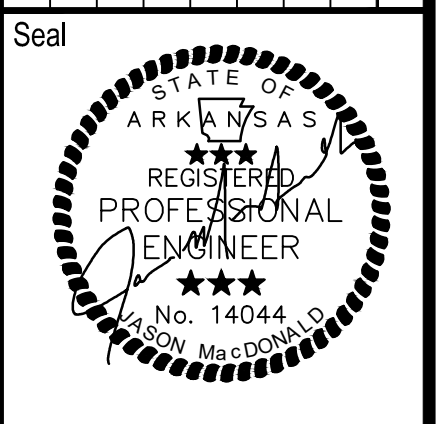
Sheet Number:  
**C506**

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 Location: C:\Users\jmacdonald\OneDrive\Documents\Projects\ARKGAME0003\WR\CAD\Plans\C507\GRAING PLAN (POND 10)  
 Plotted: Friday, December 27, 2024 - 10:34 am  
 By: jmacdonald



**FACILITY UPGRADES AT  
 CHARLIE CRAIG HATCHERY FOR  
 ARKANSAS GAME & FISH**  
 977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719

Rev.	Date	Revision Description

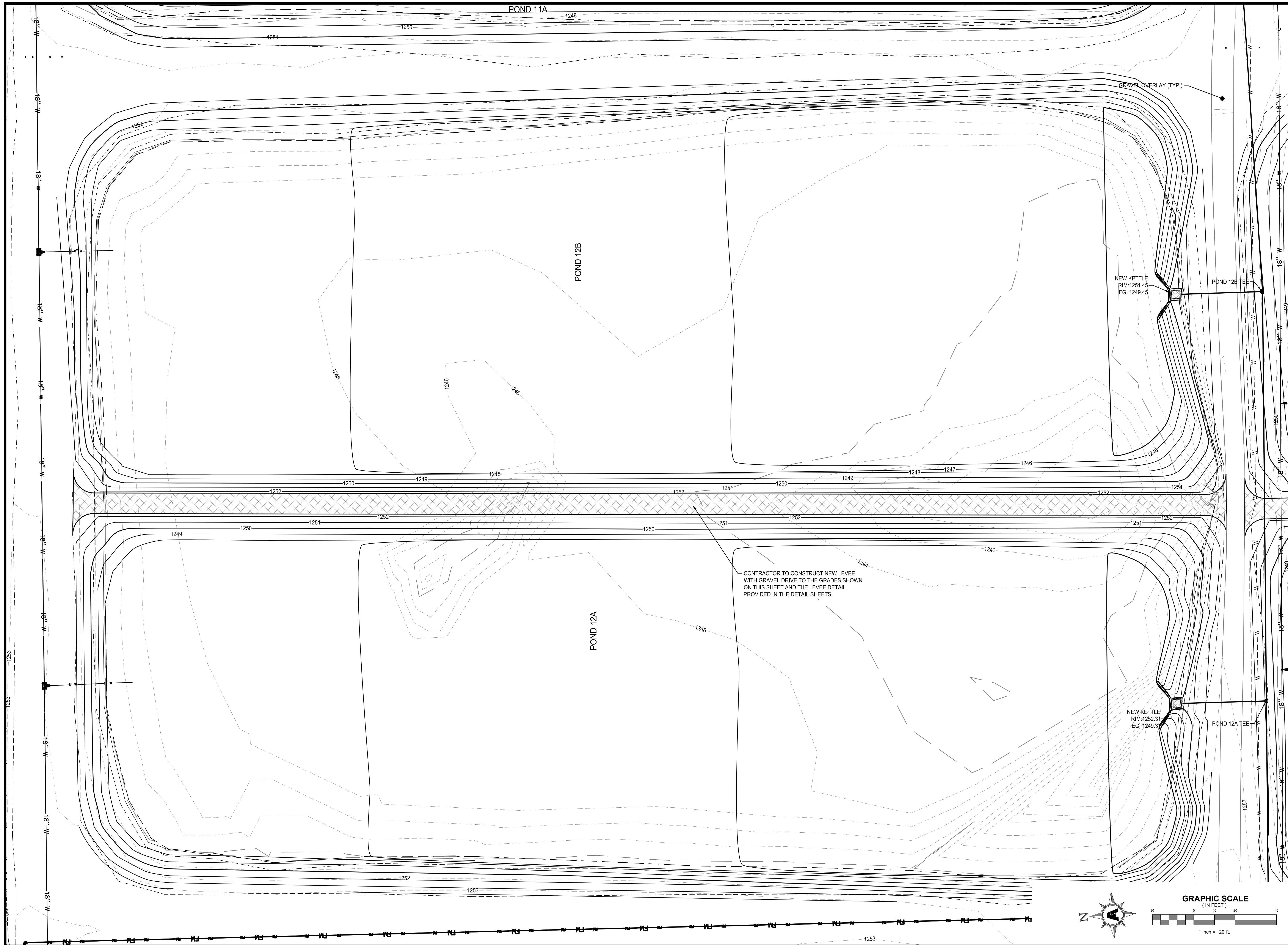


Issue Date: 12/27/24  
 Project No: ARKGAMEF.0003 WR  
 Drawn By: CCC  
 Checked By: JM  
 Sheet Title:

**GRAING PLAN  
 (POND 10)**  
 Sheet Number:  
**C507**



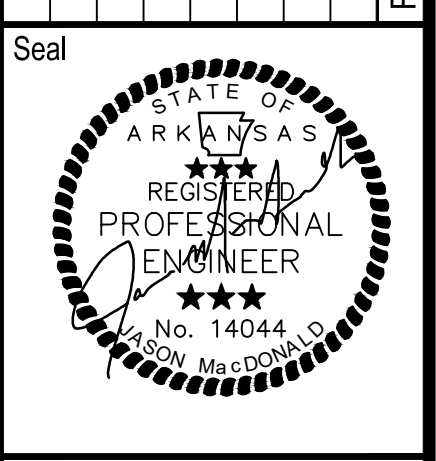
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 Layout Name: C509 GRADING PLAN (POND 12)  
 Plotted: Friday, December 27, 2024 - 10:36 am  
 By: jmacdonald



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 977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719

Rev.	Date	Revision Description

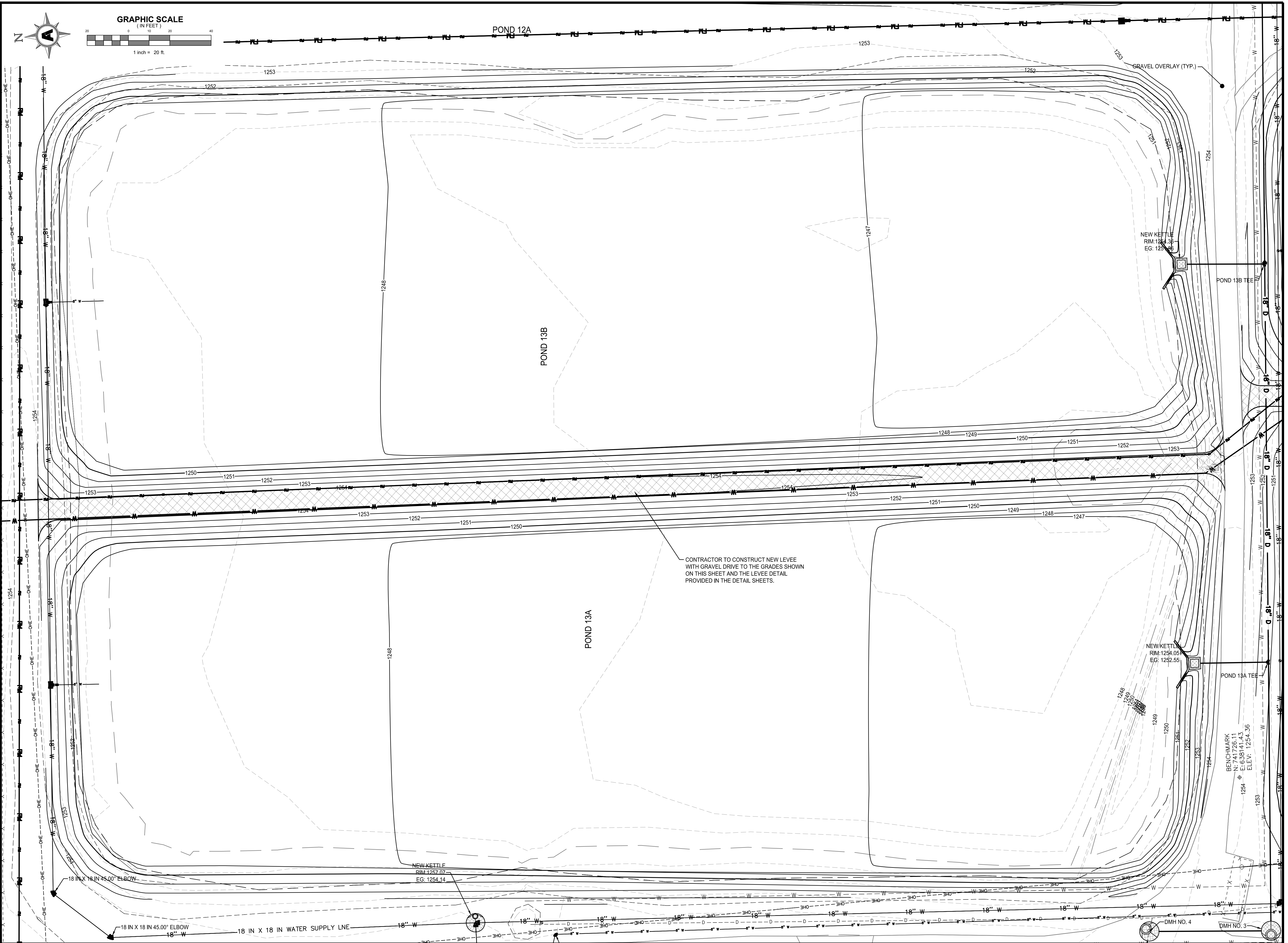


Issue Date: 12/27/24  
 Project No: ARKGAMEF.0003 WR  
 Drawn By: CCC  
 Checked By: JM  
 Sheet Title:

**GRADING PLAN  
 (POND 12)**  
 Sheet Number:  
**C509**



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 Location: C:\Users\Fisher Arnold, Inc\Desktop\WORK\ARKGAME003\WR\CAD\Plans\C515 POND 13 & 20 SWALE DETAILS.dwg  
 Layout Name: C510 GRADING PLAN (POND 13)  
 Plotted: Friday, December 27, 2024 - 10:37 am  
 By: jmcdonald



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 977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719

Rev.	Date	Revision Description

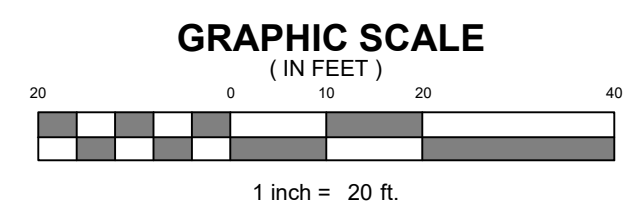
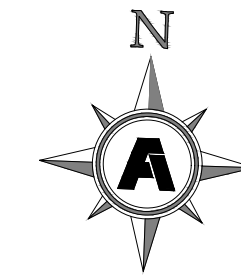
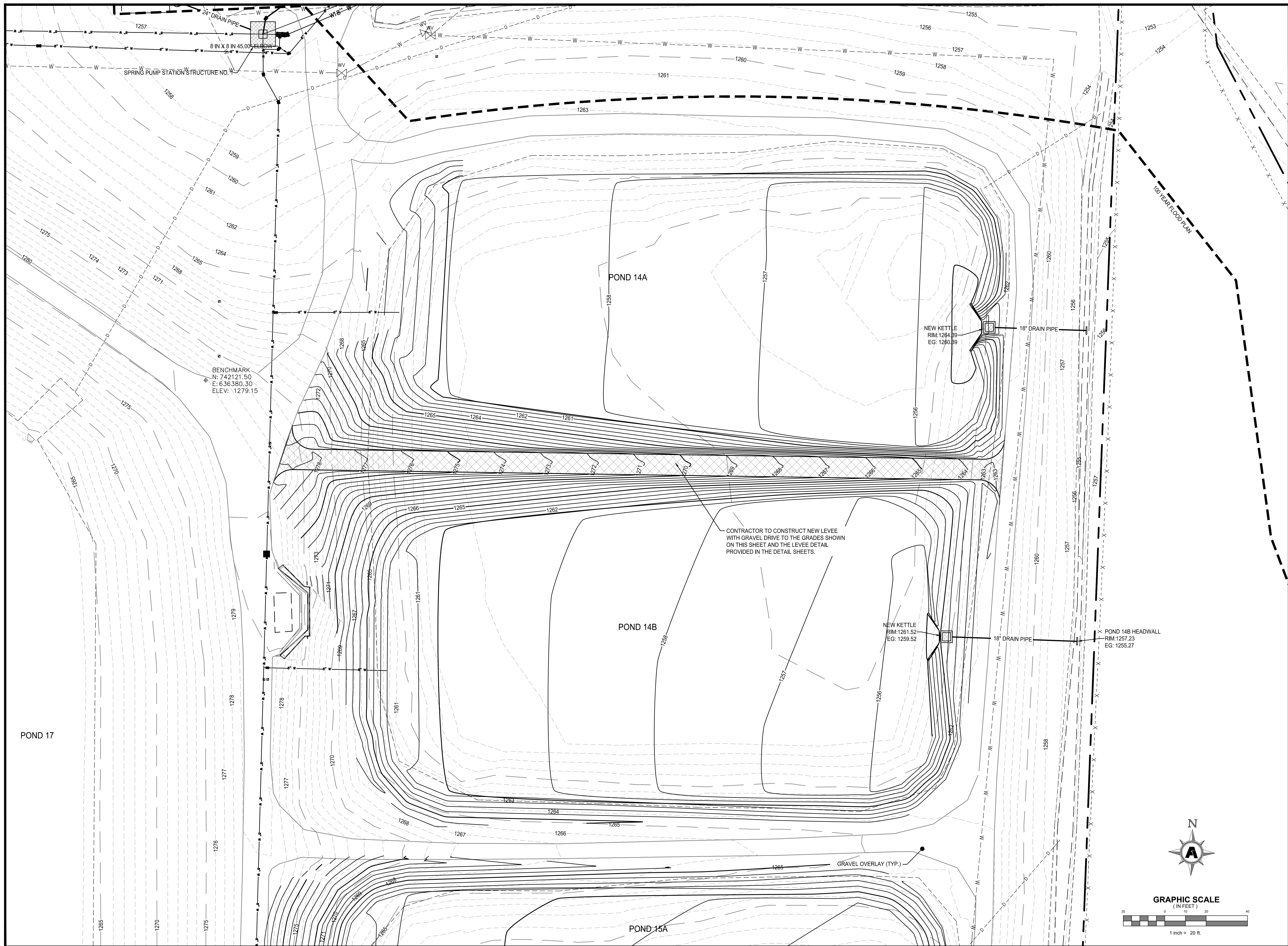
Seal  
 REGISTERED PROFESSIONAL ENGINEER  
 No. 14044  
 State of Arkansas

Issue Date: 12/27/24  
 Project No: ARKGAMEF.0003 WR  
 Drawn By: CCC  
 Checked By: JM  
 Sheet Title:

**GRADING PLAN (POND 13)**

Sheet Number:  
**C510**

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 Layout Name: C511 GRADING PLAN (POND 14)  
 Plotted: Friday, December 27, 2024 - 10:39 am  
 By: jmcDonald



**FACILITY UPGRADES AT  
 CHARLIE CRAIG HATCHERY FOR  
 ARKANSAS GAME & FISH**  
 977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719

Rev.	Date	Revision Description



Issue Date: 12/27/24  
 Project No: ARKGAMEF.0003 WR  
 Drawn By: CCC  
 Checked By: JM  
 Sheet Title:

**GRADING PLAN  
 (POND 14)**  
 Sheet Number:  
**C511**

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Location: N:\Projects\2024\ArkGame\0003\WR\CAD\Plans\C515 POND 15 & 20 SWALE DETAILS.dwg  
Layout Name: C512 GRADING PLAN (POND 15)  
Plotted: Friday, December 27, 2024 - 10:43 am  
By: jmacdonald



**FACILITY UPGRADES AT  
CHARLIE CRAIG HATCHERY FOR  
ARKANSAS GAME & FISH**  
977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719

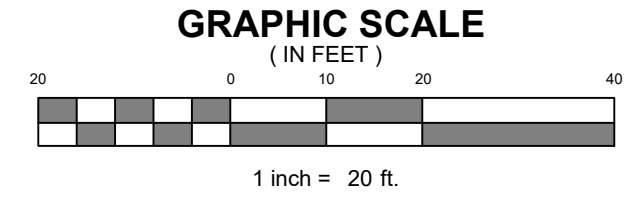
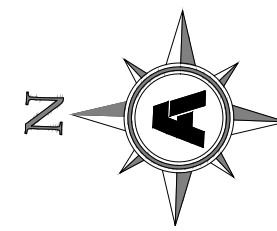
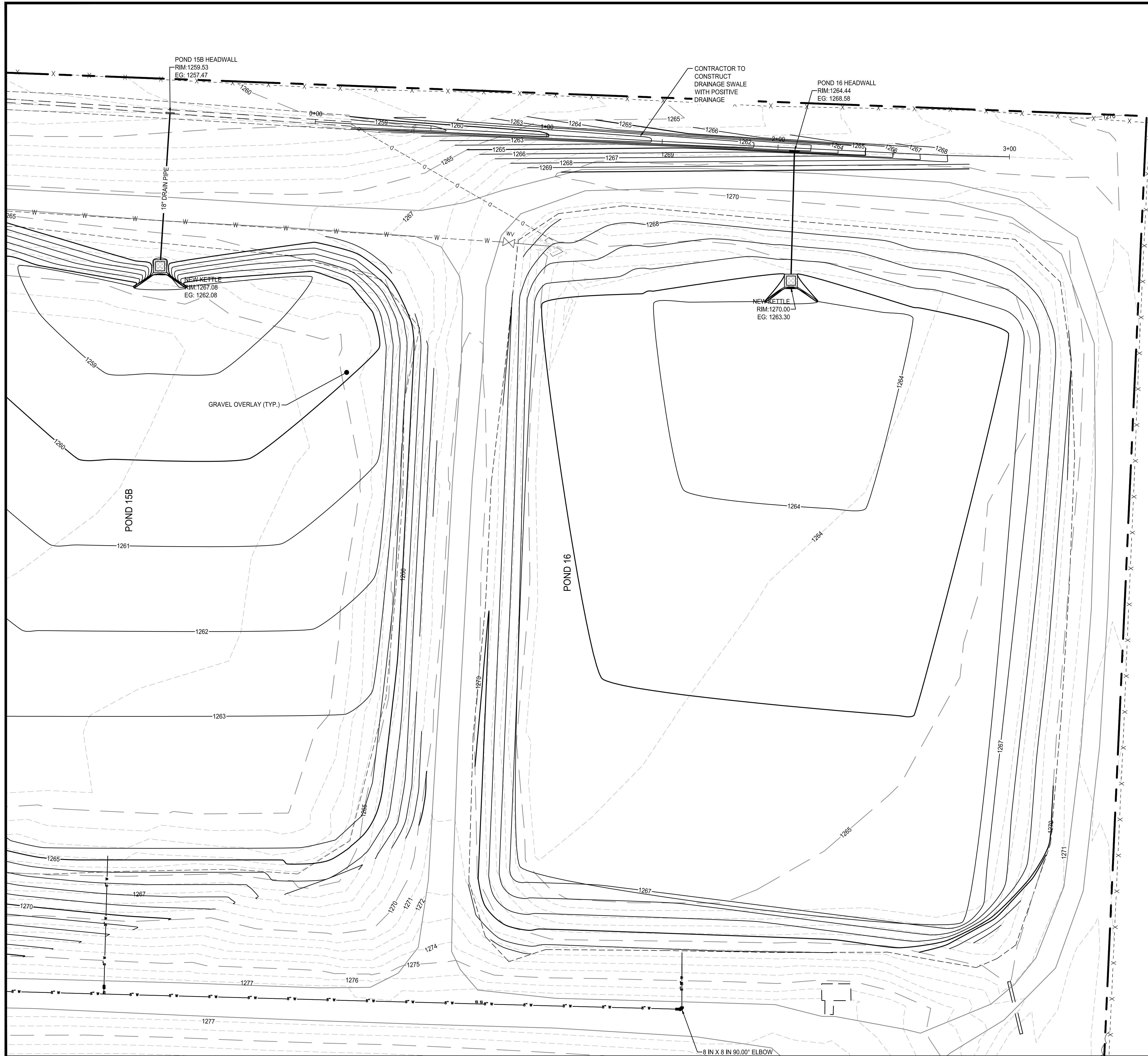
Rev.	Date	Revision Description



Issue Date: 12/27/24  
Project No: ARKGAMEF.0003 WR  
Drawn By: CCC  
Checked By: JM  
Sheet Title:

**GRADING PLAN  
(POND 15)**  
Sheet Number:  
**C512**

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 Location: V:\Projects\ArkGame\003WR\CAD\Plans\C515 POND 19 & 20 SWALE DETAILS.dwg  
 Layout Name: C513 GRADING PLAN (POND 16)  
 Plotted: Friday, December 27, 2024, 10:48 am  
 By: jmacdonald



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Rev.	Date	Revision Description

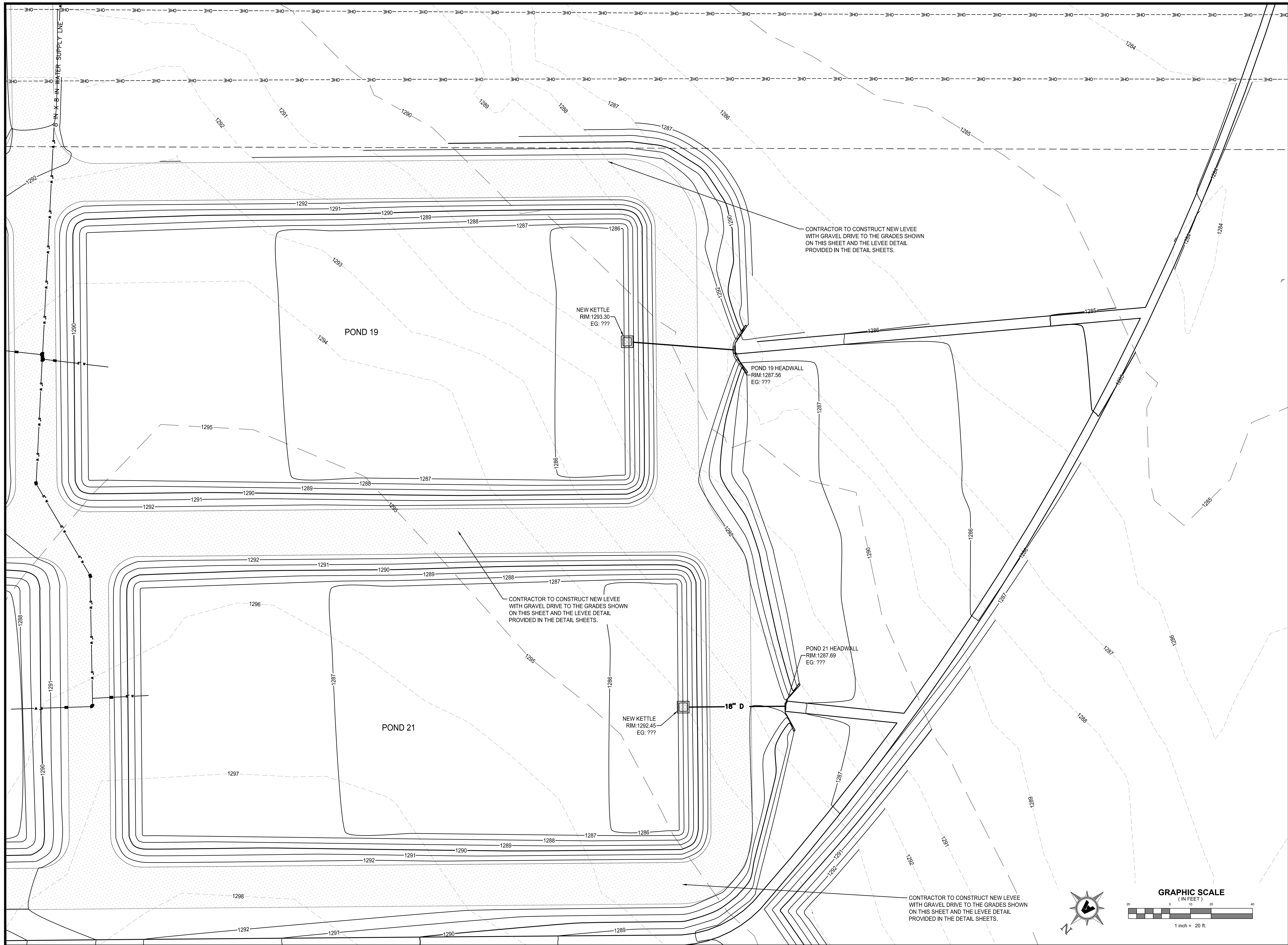


Issue Date: 12/27/24  
 Project No: ARKGAMEF.0003 WR  
 Drawn By: CCC  
 Checked By: JM

Sheet Title:  
**GRADING PLAN  
 (POND 16)**

Sheet Number:  
**C513**

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 Location: N:\514 GRADING PLAN (POND 19 & 21)  
 Plotted: Friday, December 27, 2024 - 11:45 am  
 By: jmacdonald



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**FACILITY UPGRADES AT  
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 977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719

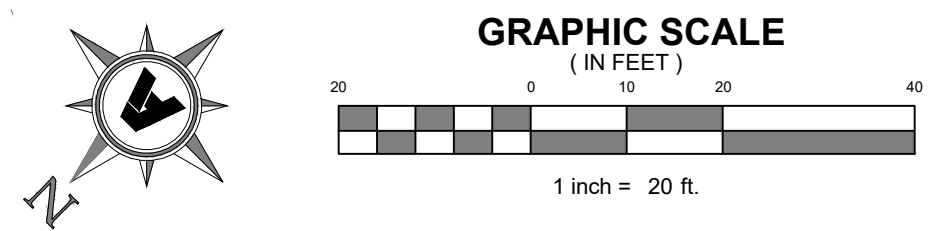
Rev.	Date	Revision Description



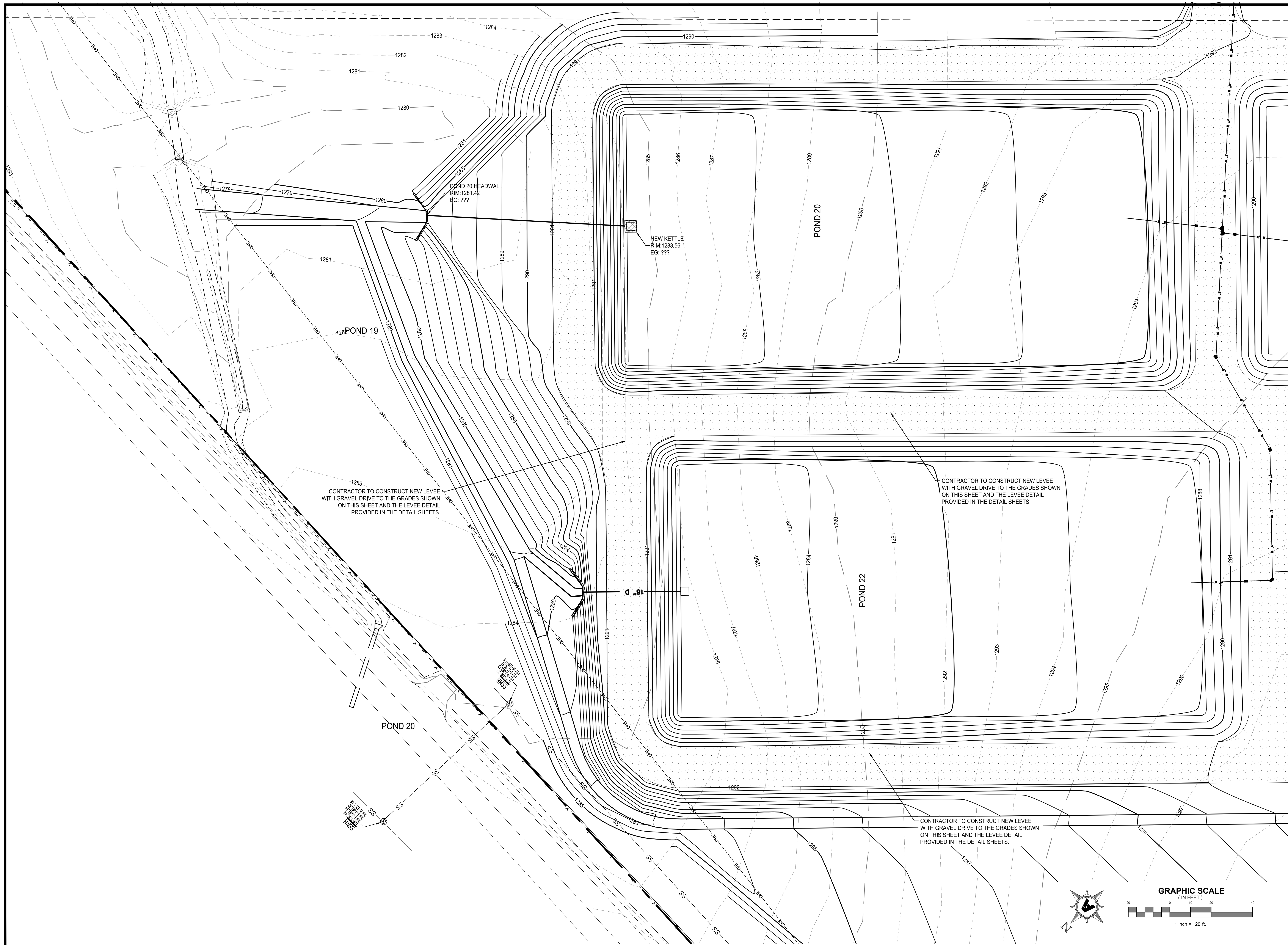
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 Checked By: JM  
 Sheet Title:

**GRADING PLAN  
 (PONDS 19 & 21)**

Sheet Number:  
**C514**



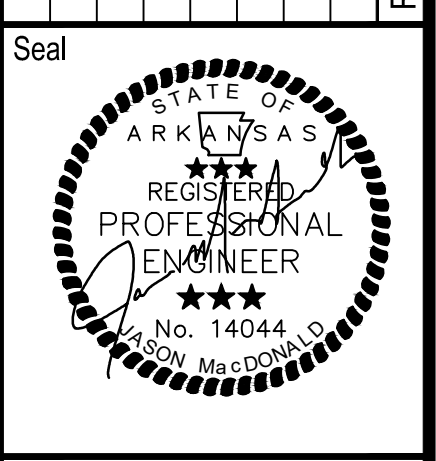
Copyright 2024 Fisher & Arnold, Inc., all rights reserved  
 Project Name: ARKGAME0003WR  
 Layout Name: C515 POND 19 & 20 SWALE DETAIL  
 Plotted: Friday, December 27, 2024 - 11:51 am  
 By: jmacdonald



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 CHARLIE CRAIG HATCHERY FOR  
 ARKANSAS GAME & FISH**  
 977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719

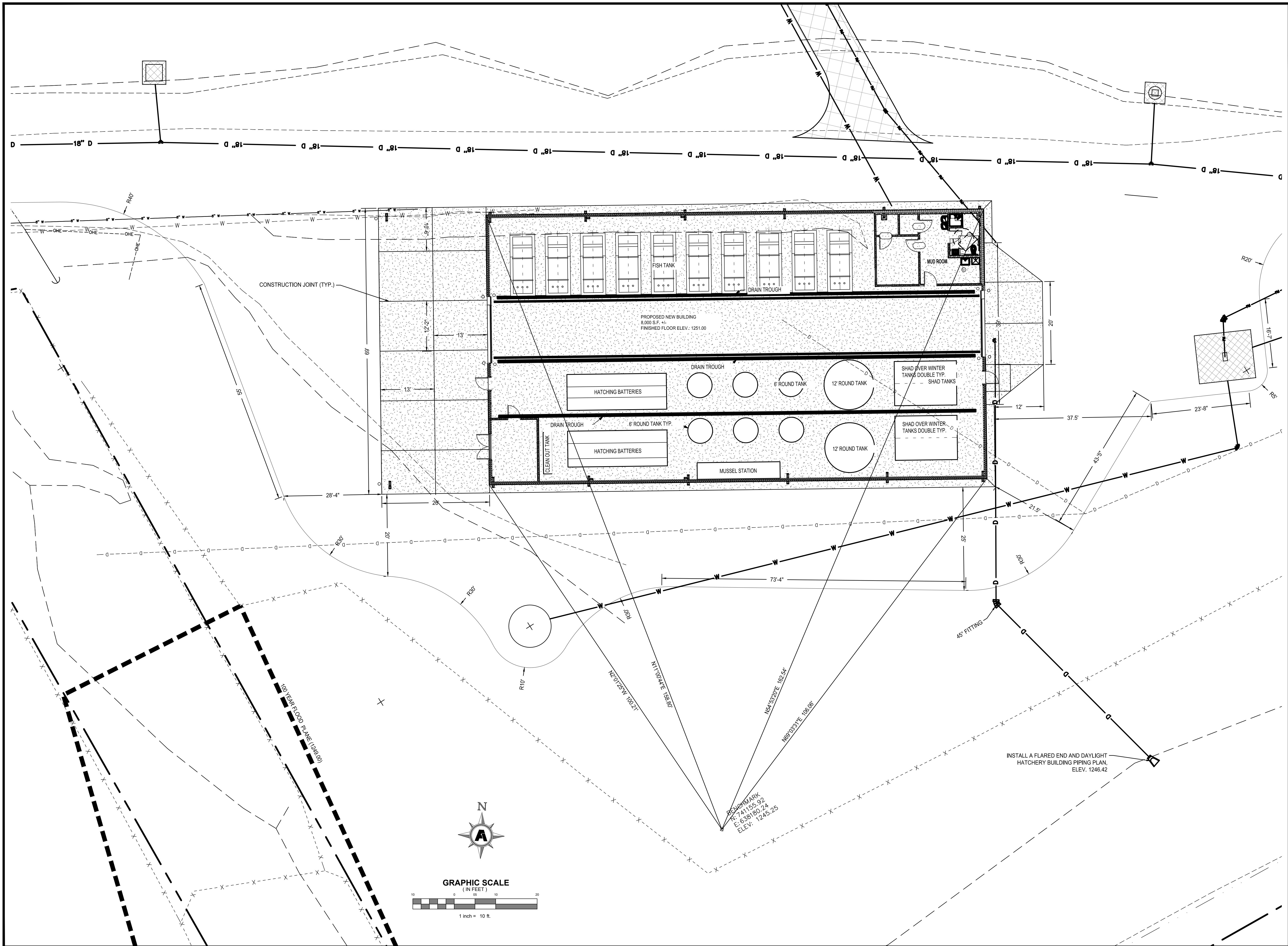
Rev.	Date	Revision Description



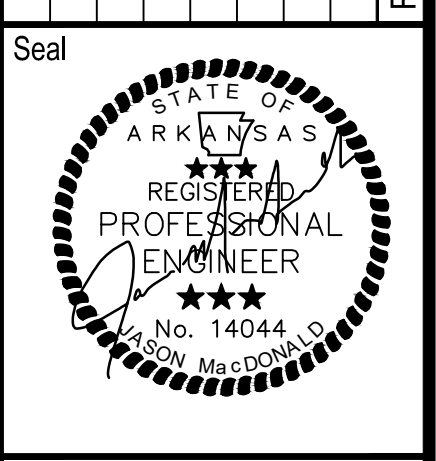
Issue Date: 12/27/24  
 Project No: ARKGAMEF.0003 WR  
 Drawn By: CCC  
 Checked By: JM  
 Sheet Title:

**GRADING PLAN  
 (PONDS 20 & 22)**  
 Sheet Number:  
**C515**

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 Project Name: HATCHERY BUILDING SITE PLAN  
 Plotted: Sunday, December 29, 2024 - 10:34 pm  
 By: jmacdonald



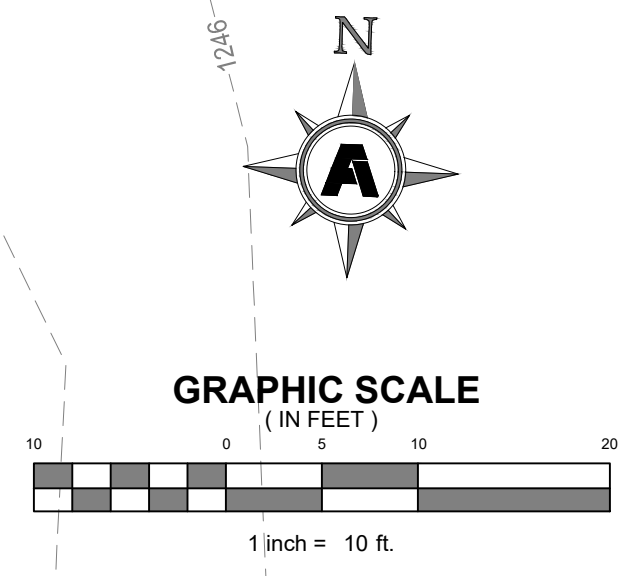
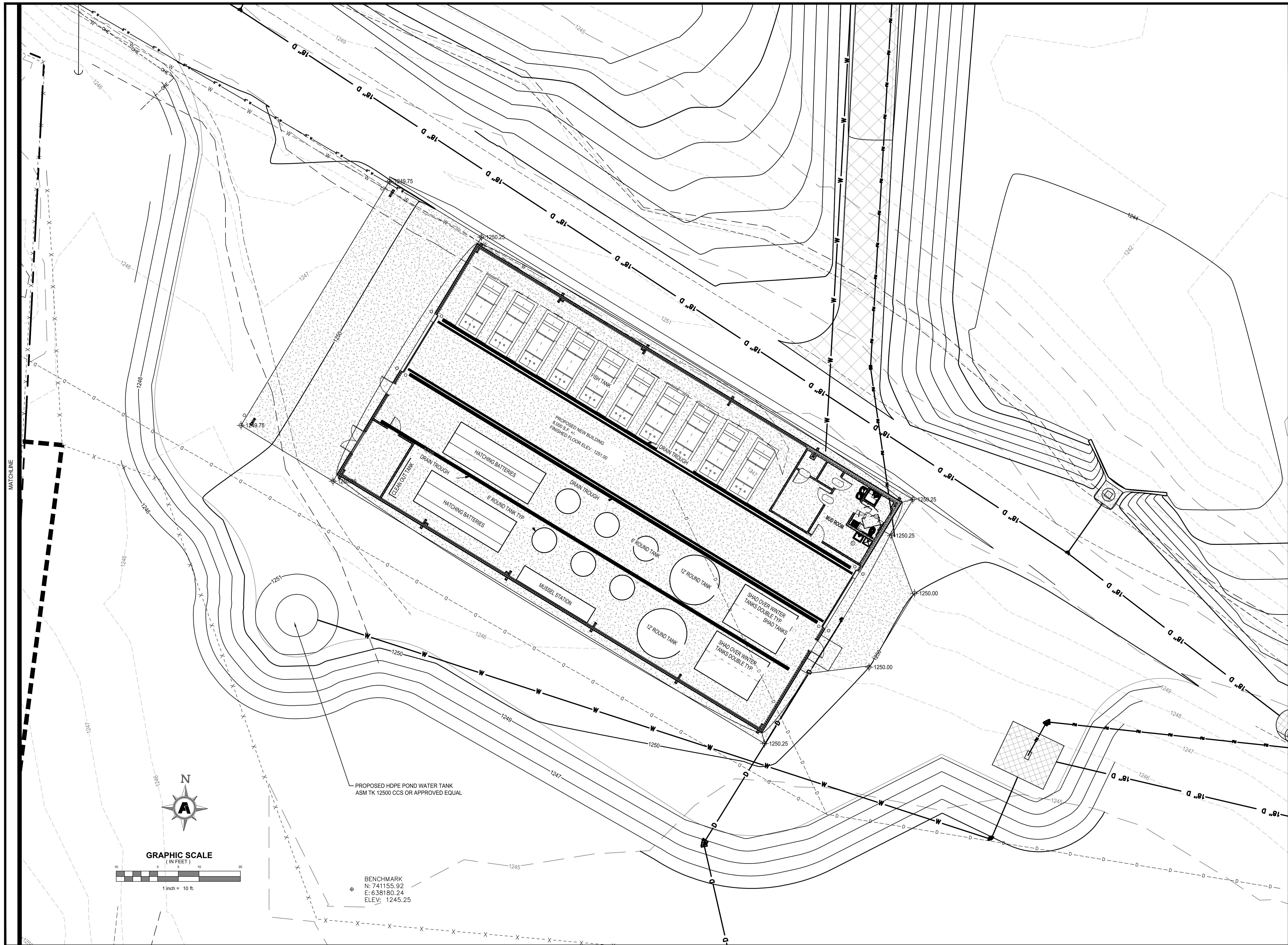
Rev.	Date	Revision Description



Issue Date: 12/17/24  
 Project No: ARKGAMEF.0003 WR  
 Drawn By: CCC  
 Checked By: JM  
 Sheet Title:

**HATCHERY  
 BUILDING SITE  
 PLAN**  
 Sheet Number:  
**C516**

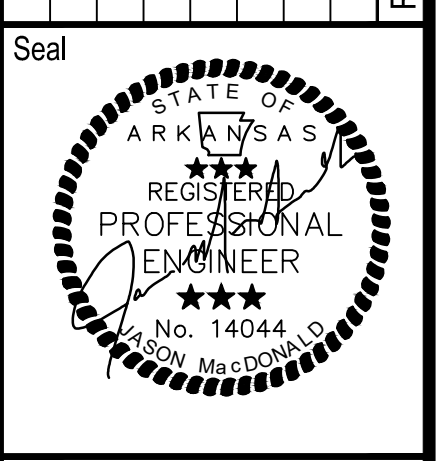
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 Layout Name: C517 HATCHERY BUILDING GRADING PLAN  
 Plotted: Sunday, December 29, 2024 - 10:26 pm  
 By: jmacdonald



BENCHMARK  
 N: 741155.92  
 E: 638180.24  
 ELEV: 1245.25

**FACILITY UPGRADES AT  
 CHARLIE CRAIG HATCHERY FOR  
 ARKANSAS GAME & FISH**  
 977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719

Rev.	Date	Revision Description



Issue Date: 12/29/24  
 Project No: ARKGAMEF.0003 WR  
 Drawn By: CCC  
 Checked By: JM  
 Sheet Title:

**HATCHERY  
 BUILDING  
 GRADING PLAN**

Sheet Number:  
**C517**

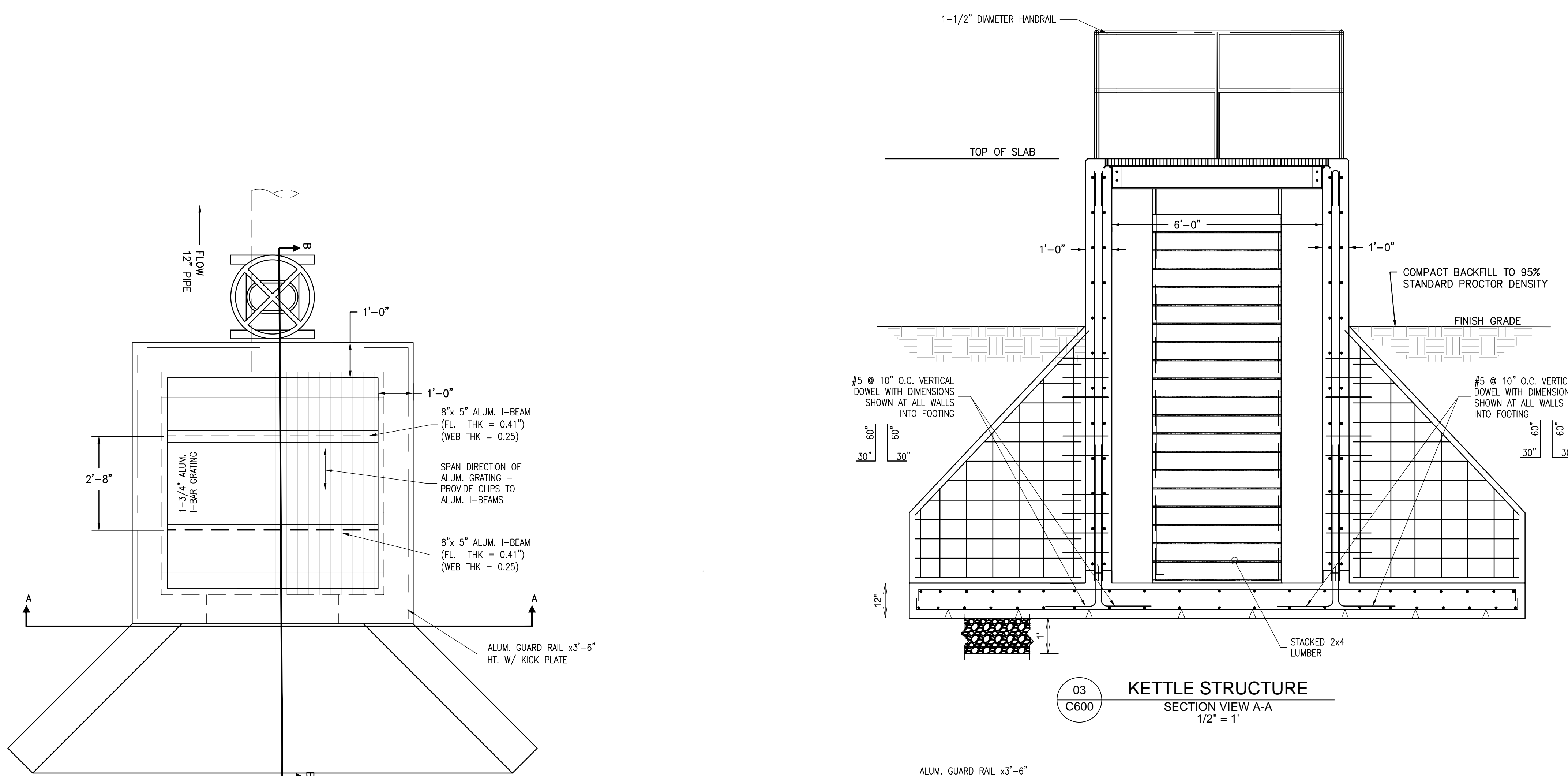
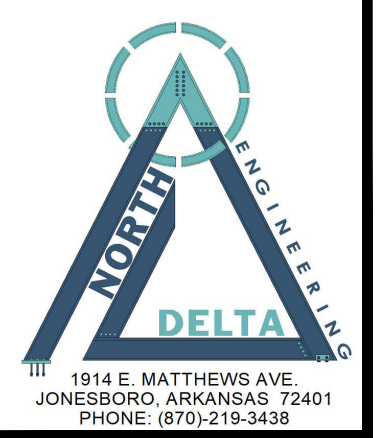


Rev.	Date	Revision Description

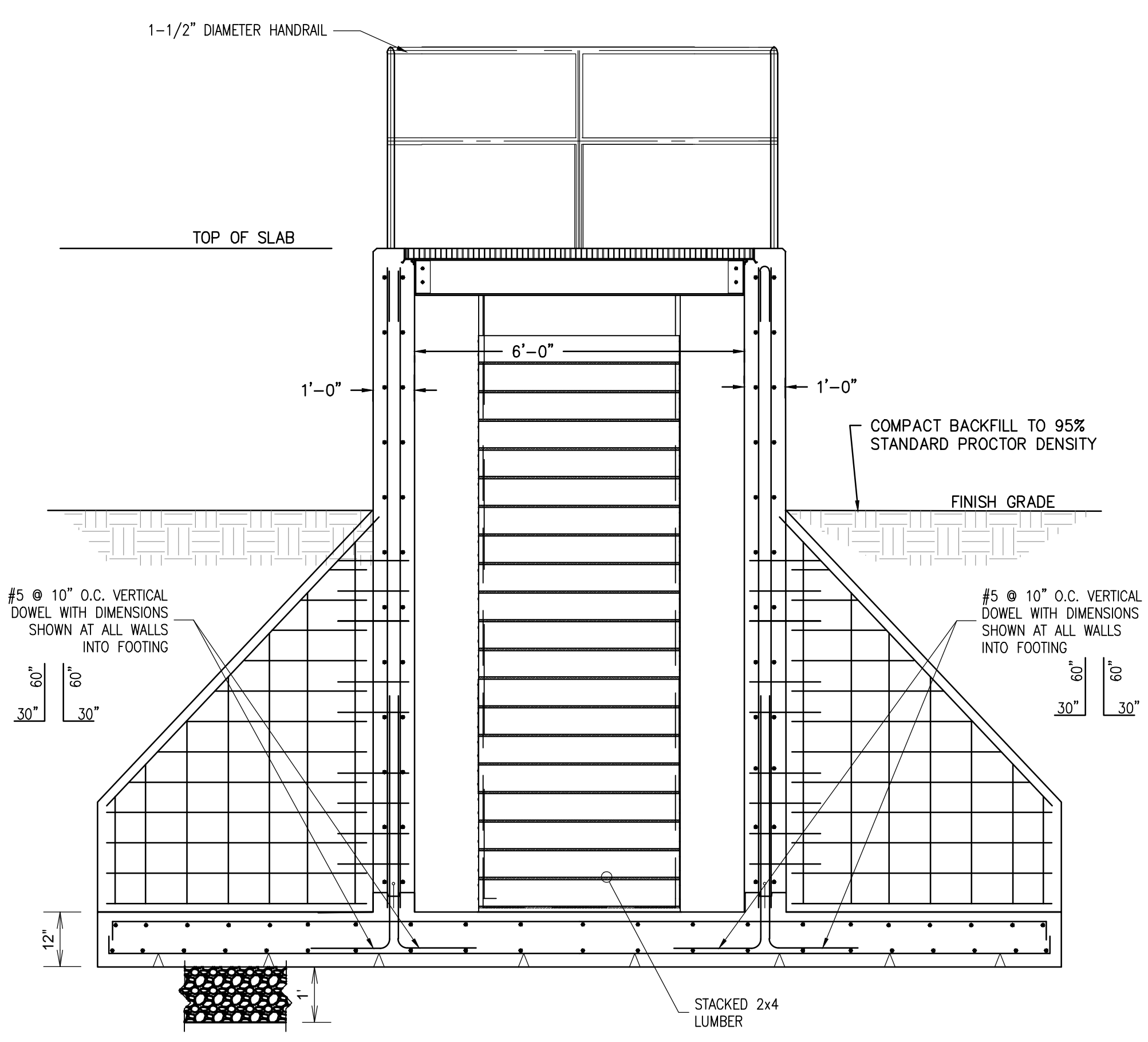
Seal  
 STATE OF ARKANSAS  
 REGISTERED PROFESSIONAL ENGINEER  
 JORDAN W. JANE  
 No. 12989  
 12/20/2024

Issue Date:  
 Project No: ARKGAMEF.0003 WR  
 Drawn By: CCC  
 Checked By: JM  
 Sheet Title:

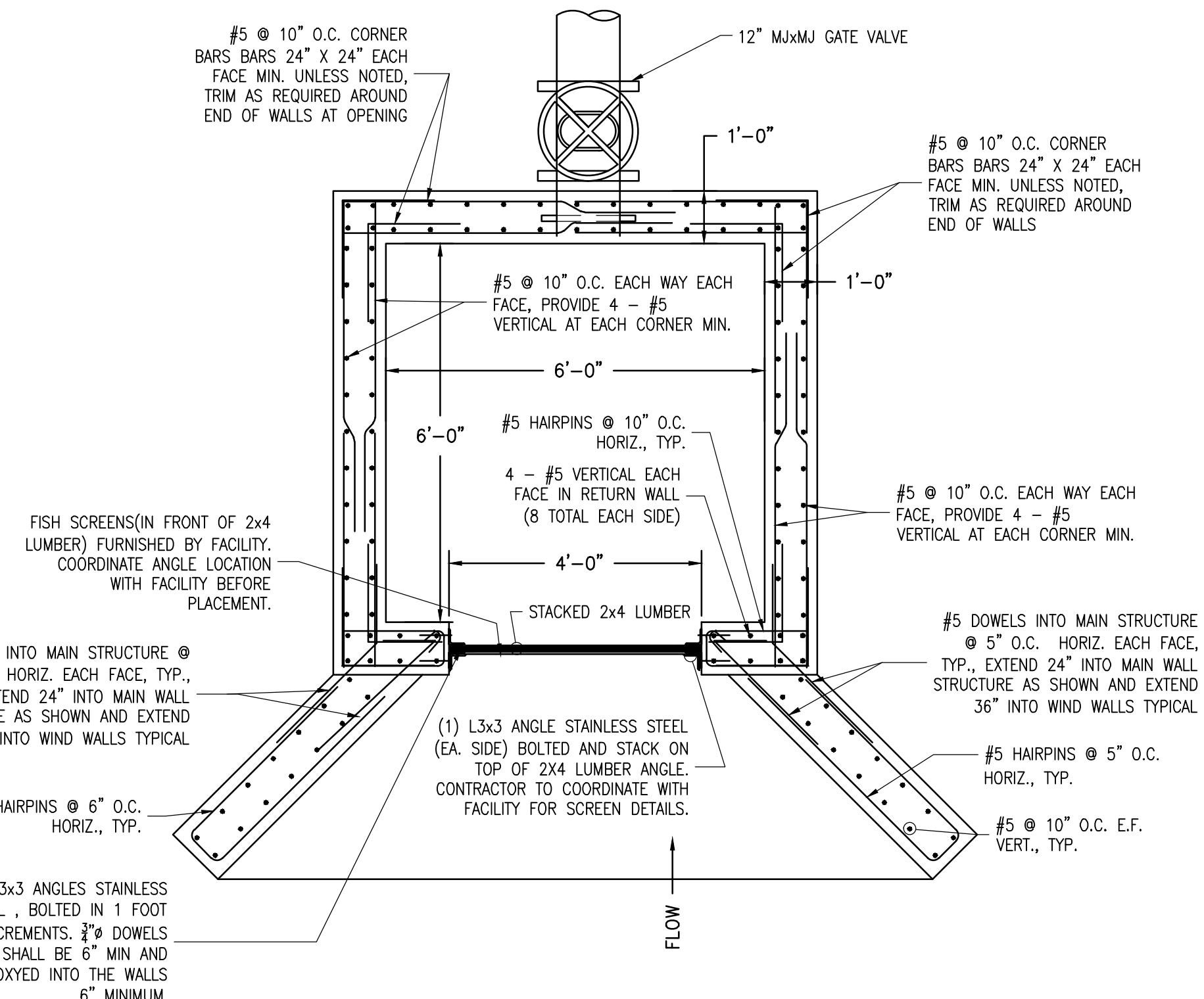
KETTLE STRUCTURE  
 Sheet Number:  
**C600**



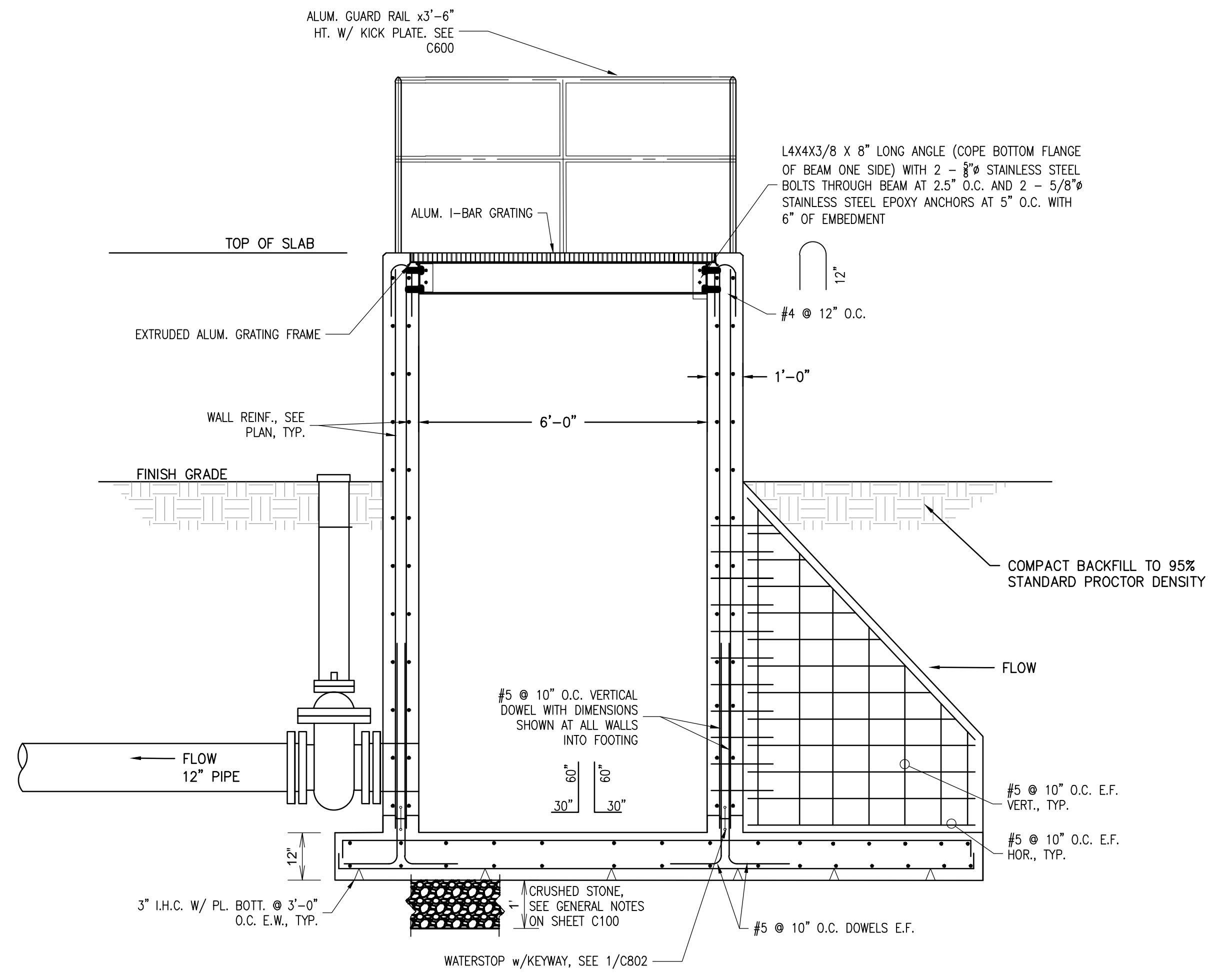
**01 KETTLE STRUCTURE**  
 PLAN VIEW @ TOP OF SLAB  
 1/2" = 1"



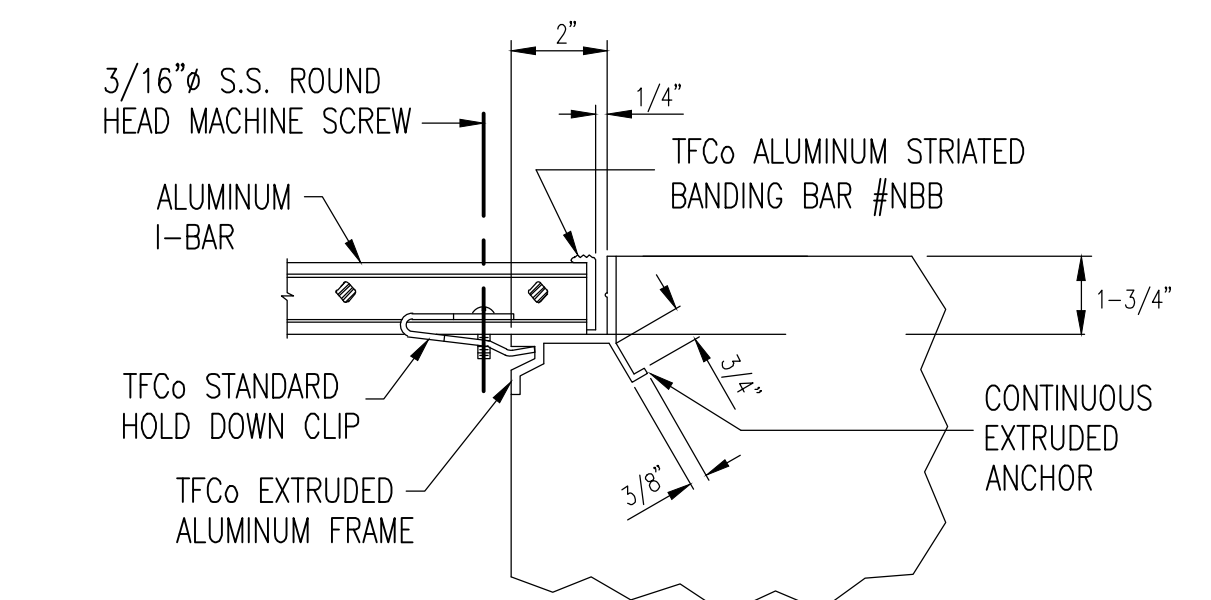
**03 KETTLE STRUCTURE**  
 SECTION VIEW A-A  
 1/2" = 1"



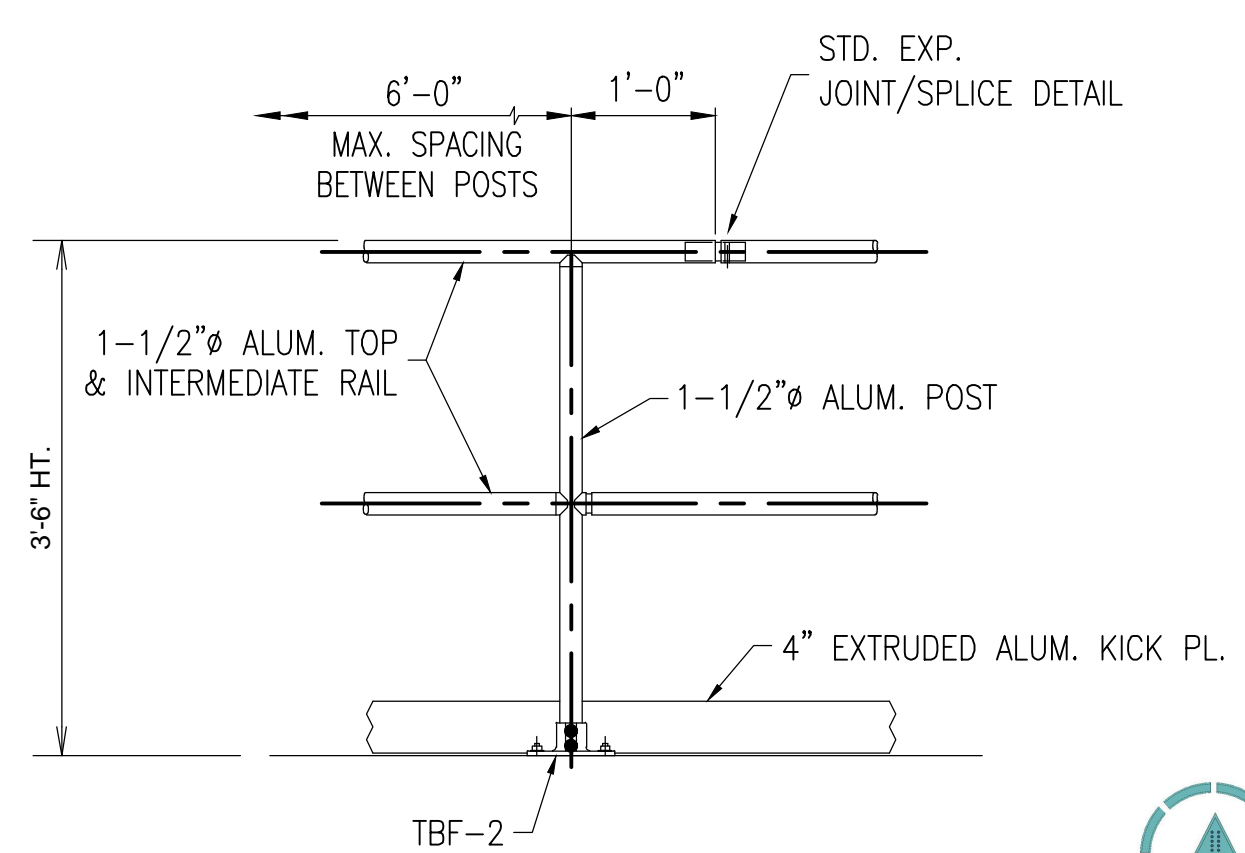
**02 KETTLE STRUCTURE**  
 PLAN VIEW MIDDLE  
 1/2" = 1"



**04 KETTLE STRUCTURE**  
 SECTION VIEW B-B  
 1/2" = 1"



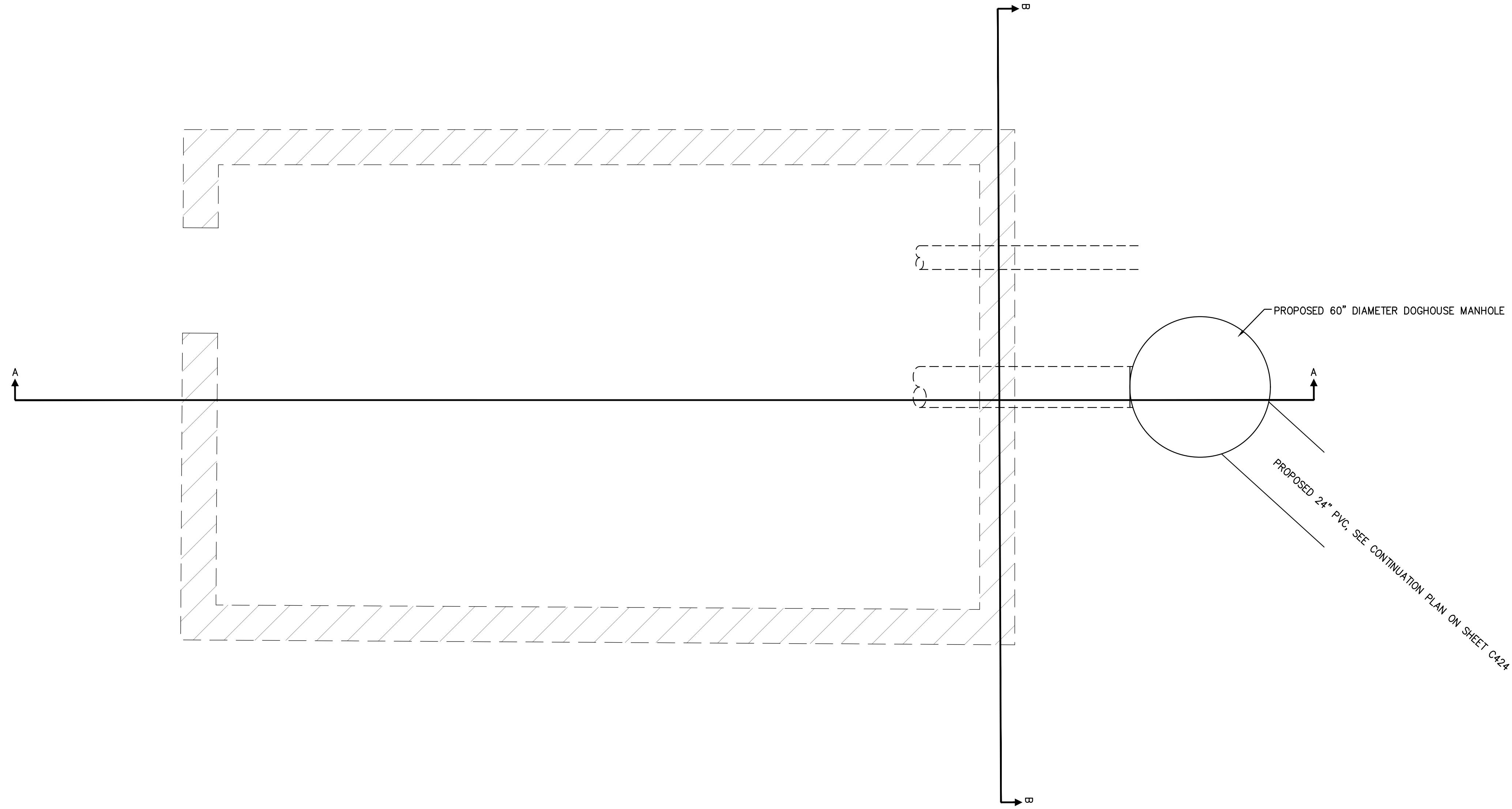
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 N.T.S.



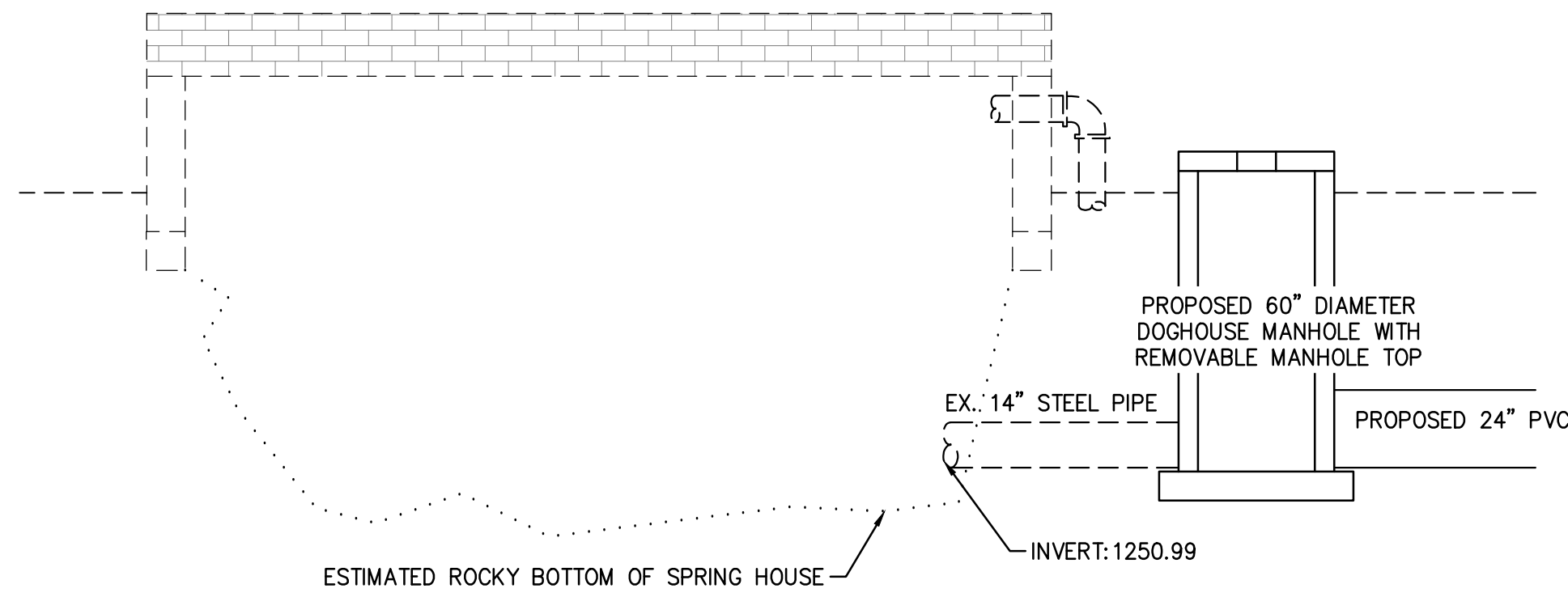
**TYPICAL ALUM. GUARDRAIL DETAIL**

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 Plotted: Monday, December 23, 2024 - 8:51 am  
 By: ccompener

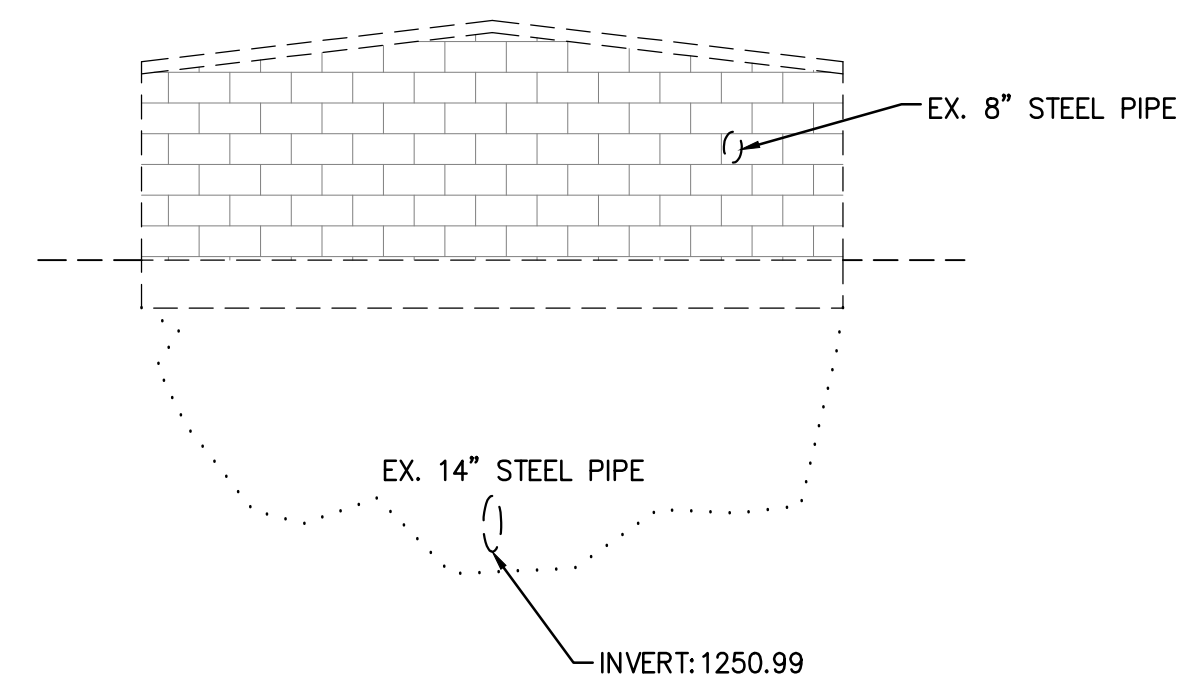
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 Filename: C:\Users\jmacdonald\OneDrive\Fisher Arnold, Inc\Desktop\WORK\ARKGAME0003WR\CAD\Plans\SPRING HOUSE STRUCTURE.dwg  
 Plotted: Sunday, December 29, 2024 11:08 pm  
 By: jmacdonald



01  
 D406 SPRING HOUSE  
 PLAN VIEW  
 1/2" = 1'

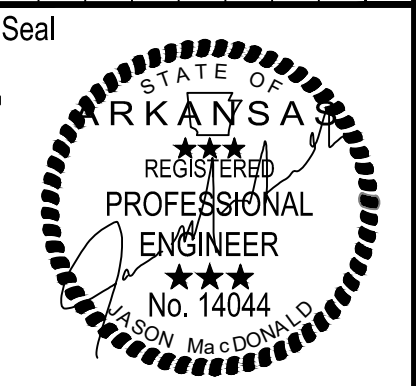


03  
 D406 SPRING HOUSE  
 SECTION VIEW A-A  
 1/4" = 1'



03  
 D406 SPRING HOUSE  
 SECTION VIEW B-B  
 1/4" = 1'

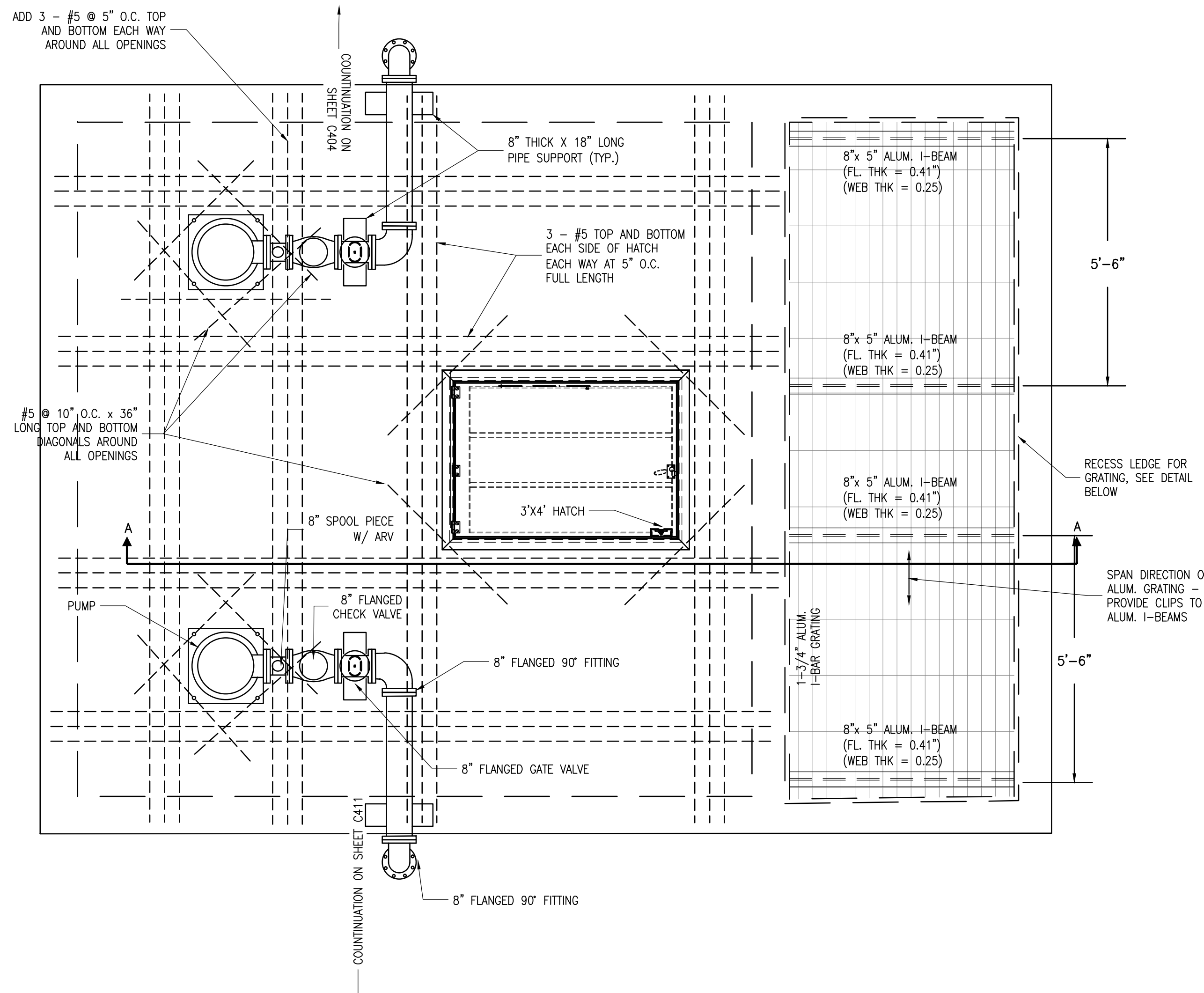
Rev.	Date	Revision Description



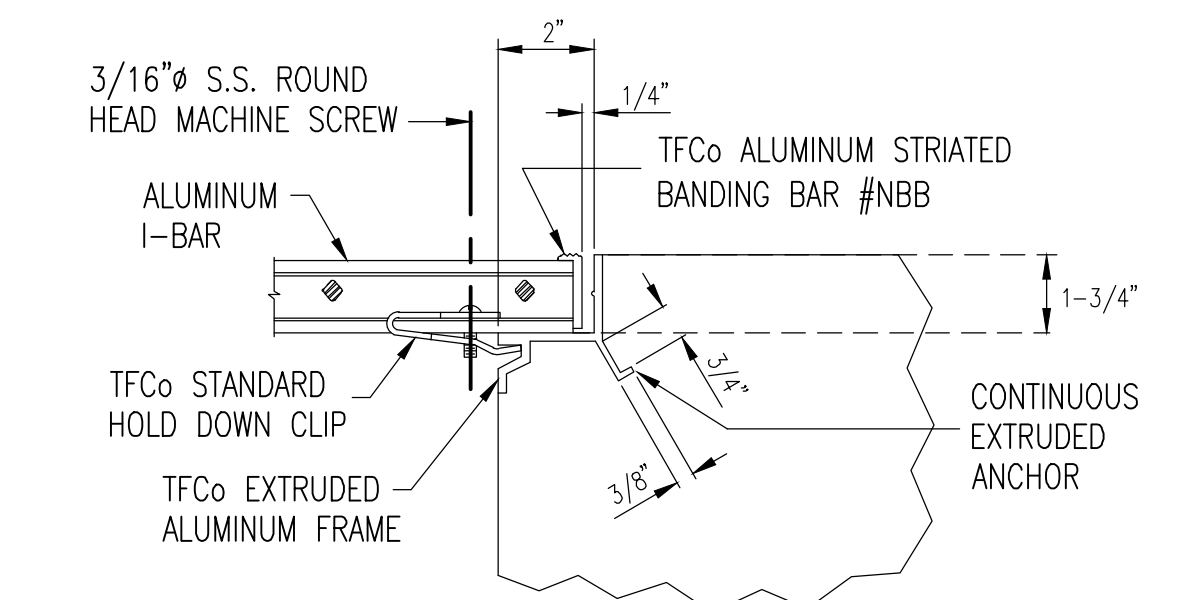
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 Project No: ARKGAMEF.0003 WR  
 Drawn By: CCC  
 Checked By: JM  
 Sheet Title:

SPRING HOUSE  
 BUILDING

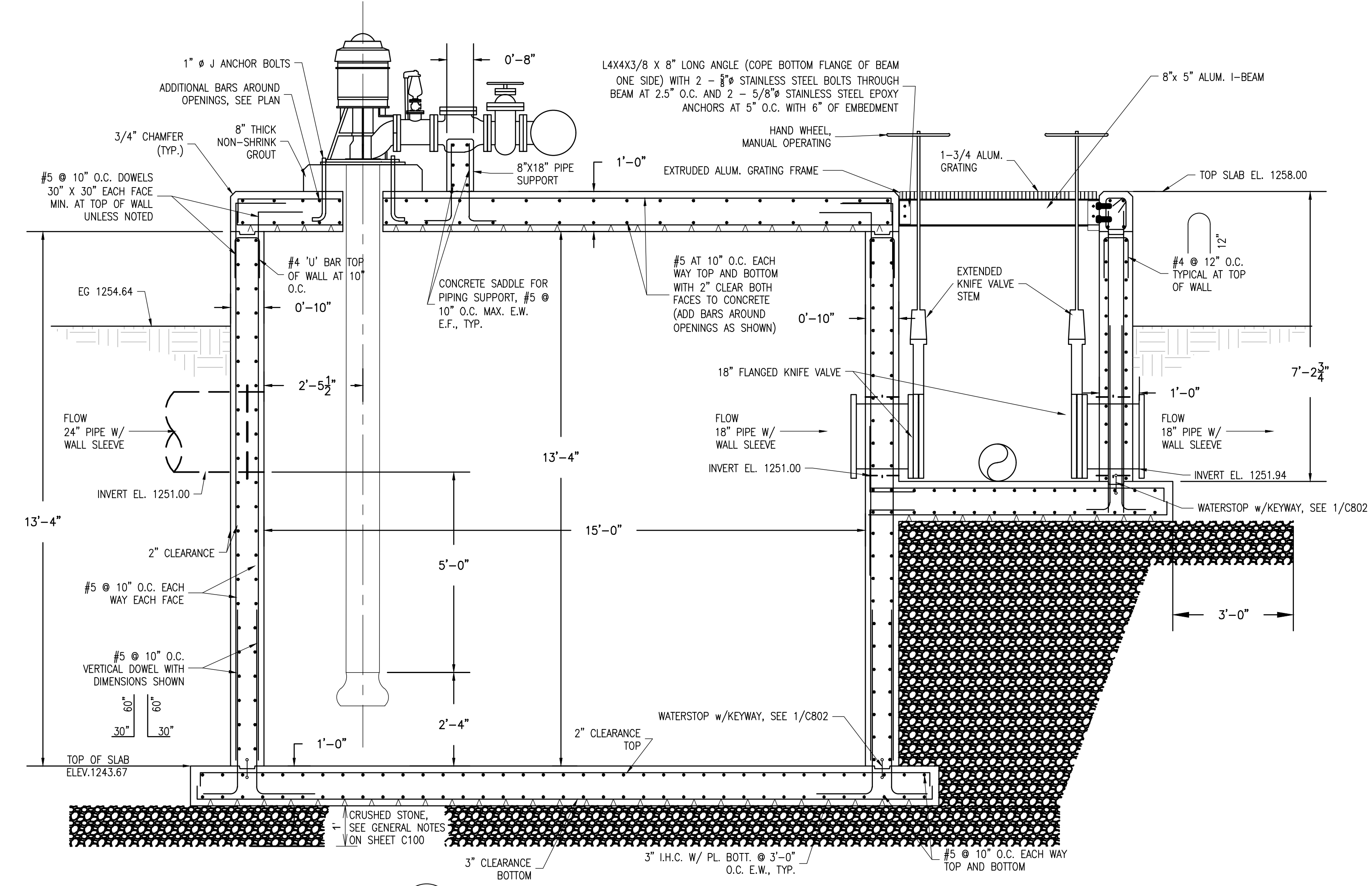
Sheet Number:  
**C601**



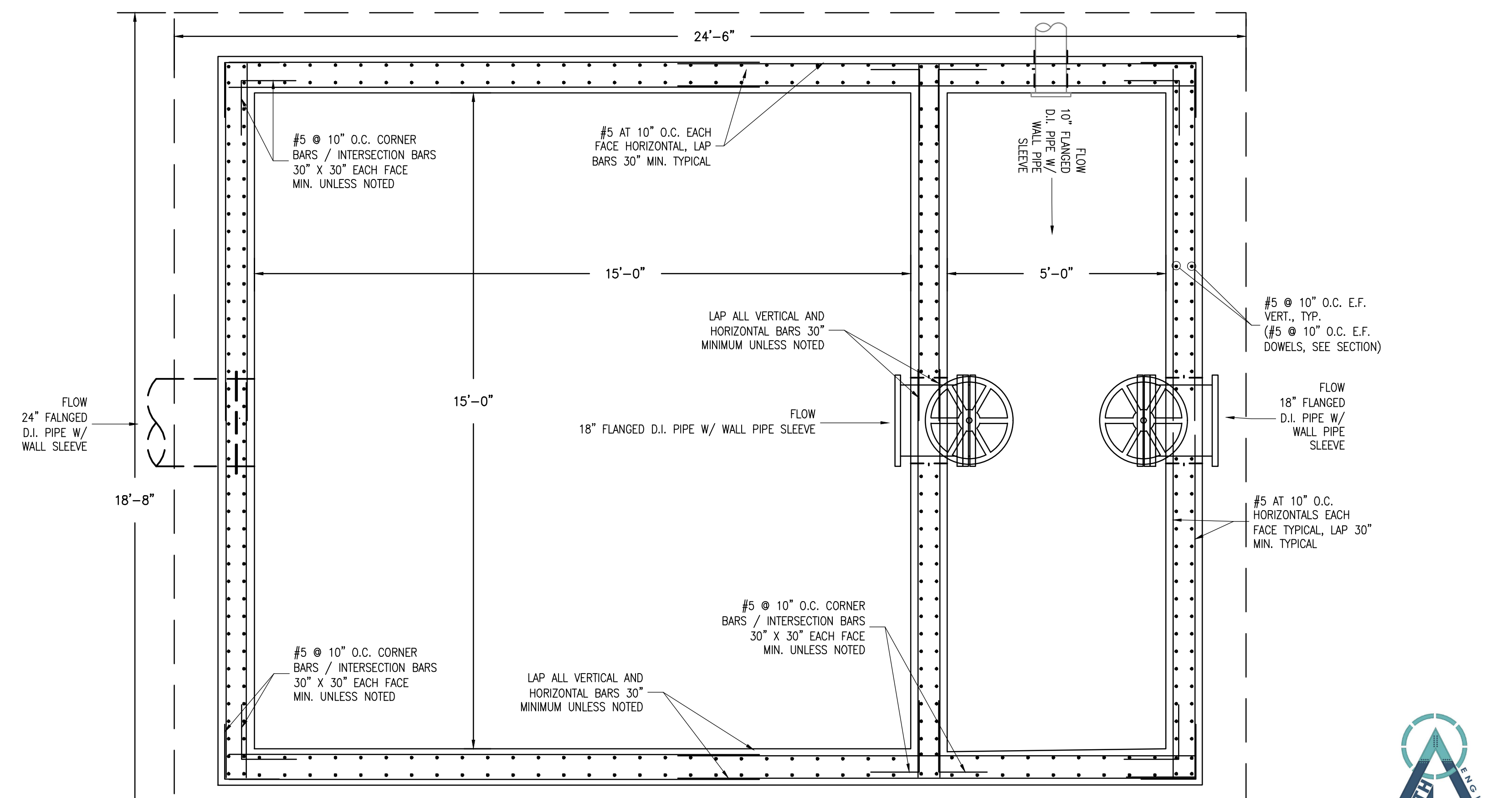
**01 SPRING HOUSE PUMP STATION STRUCTURE**  
 PLAN VIEW @ ELEV. 1258.00'  
 1/2" = 1'



**TYPICAL TFCO GRATING DETAIL**  
 N.T.S.



**03 SPRING HOUSE PUMP STATION STRUCTURE**  
 SECTION VIEW A-A  
 1/2" = 1'



**04 SPRING HOUSE PUMP STATION STRUCTURE**  
 PLAN VIEW @ ELEV. 251.00  
 1/2" = 1'

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 Filename: X:\ARKGAMEF\003\WR\Civil\Xier\Jordan.Lane\Final DWG\Spring Pump Station 2.dwg  
 Layout Name: C602 SPRING HOUSE PUMP STATION STRUCTURE  
 Plotted: Monday, December 23, 2024 - 9:04 am

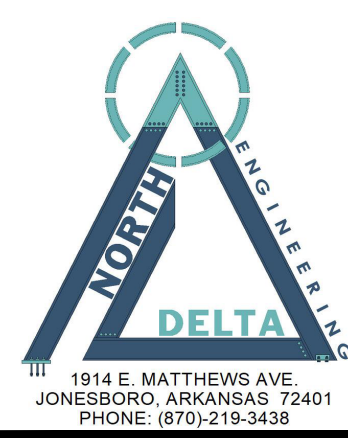
Rev.	Date	Description



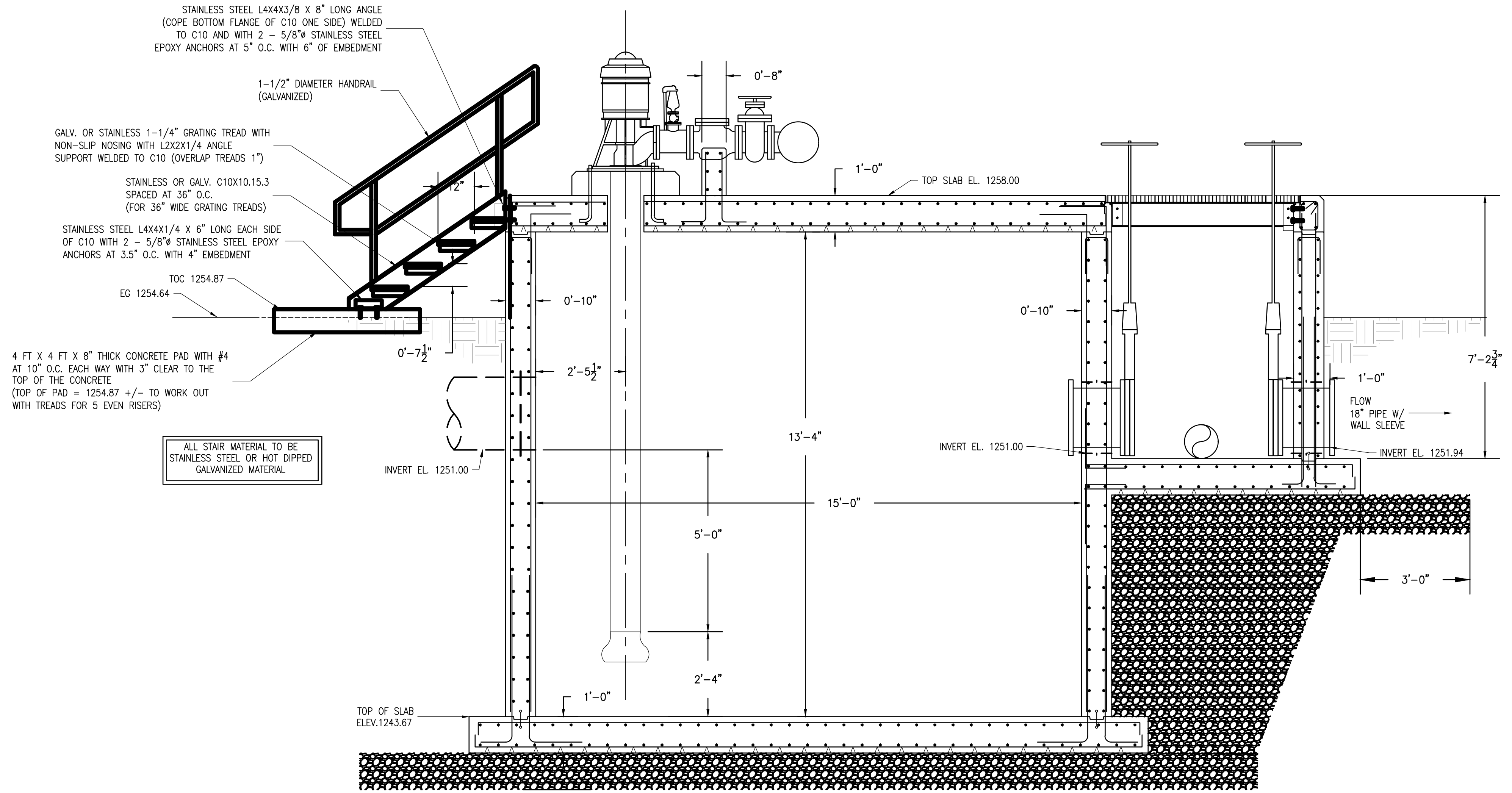
Issue Date:  
 Project No: ARKGAMEF.0003 WR  
 Drawn By: CCC  
 Checked By: JM  
 Sheet Title:

**SPRING HOUSE PUMP STATION STRUCTURE**

Sheet Number:  
**C602**



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 Filename: X:\AR\GAMEF\003\WR\Civil\Jordan\_Lane\Final DWG\Spring Pump Station-2.dwg  
 Layout Name: C602B SPRING HOUSE PUMP STATION STRUCTURE  
 Plotted: Monday, December 23, 2024 - 11:03 am



ALL STAIR MATERIAL TO BE STAINLESS STEEL OR HOT DIPPED GALVANIZED MATERIAL

03 SPRING HOUSE PUMP STATION STRUCTURE  
 SECTION VIEW A-A  
 1/2" = 1'

FACILITY UPGRADES AT  
 CHARLIE CRAIG HATCHERY FOR  
 ARKANSAS GAME & FISH  
 977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719

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Rev.	Date	Revision Description

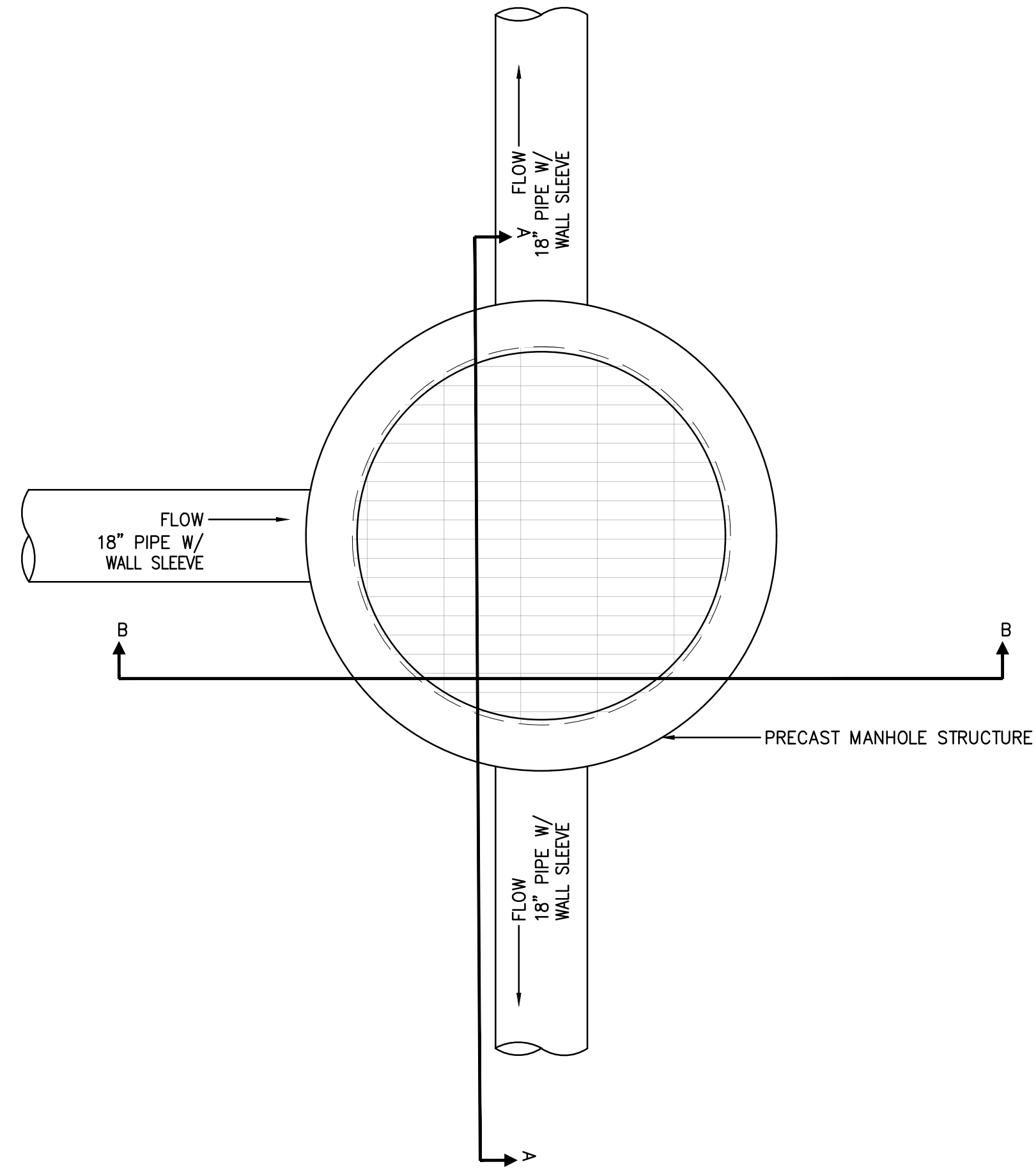
Seal  
  
 12/20/2024

Issue Date:  
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 Drawn By: CCC  
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 Sheet Title:

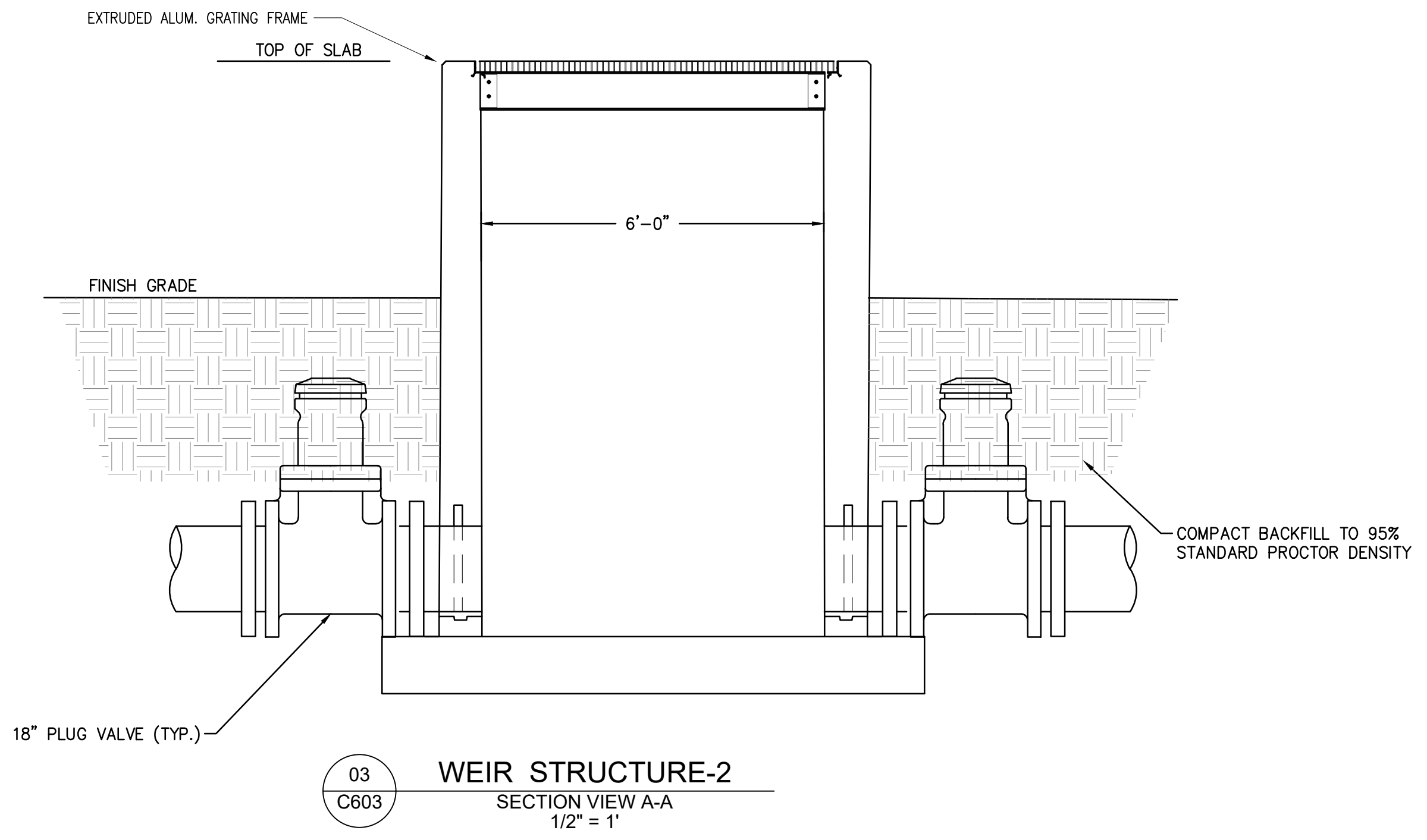
SPRING HOUSE  
 PUMP STATION  
 STRUCTURE

Sheet Number:  
**C602B**

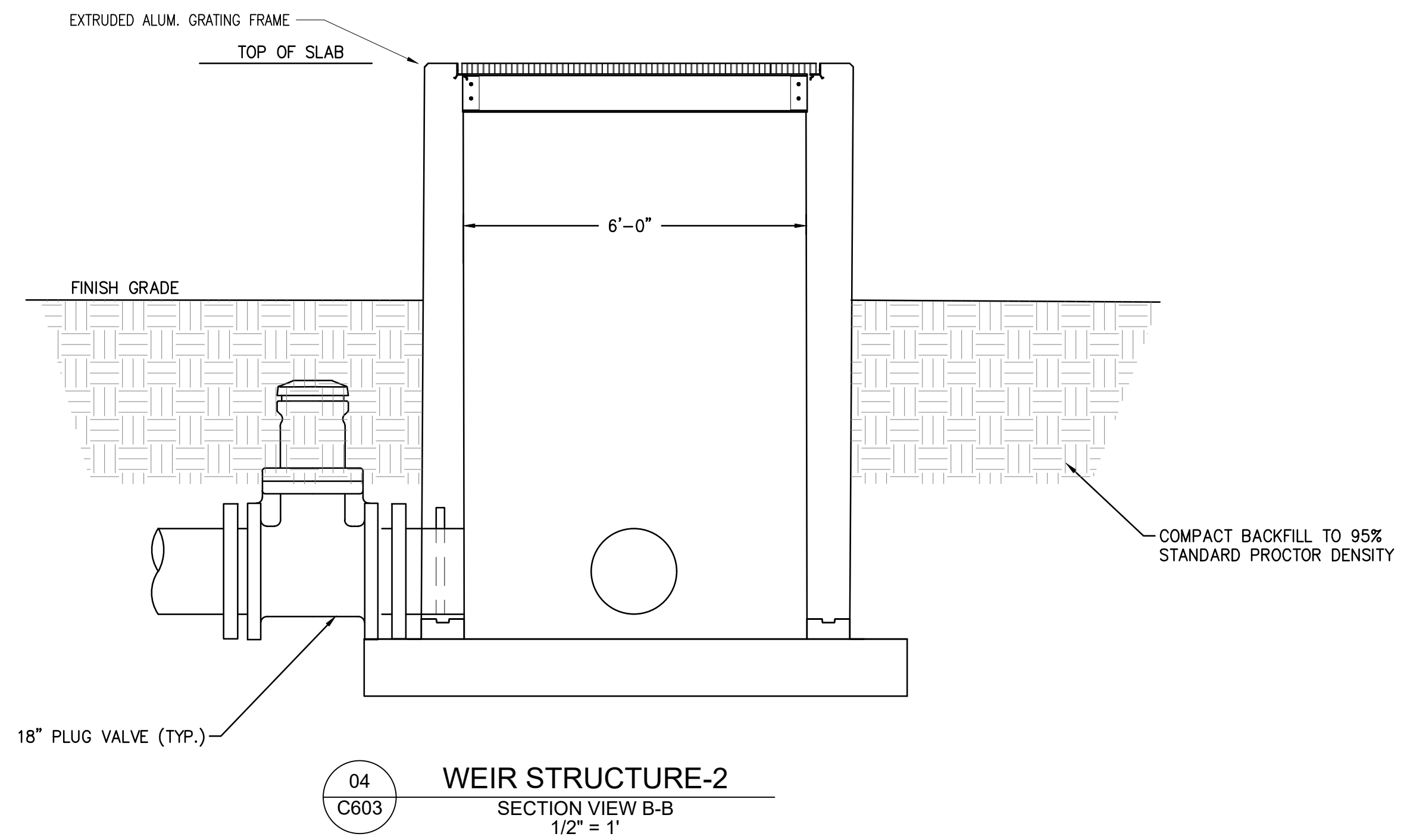




01 WEIR STURCTURE-2  
 C603 PLAN VIEW @ ELEV. 1258.86'  
 1/2" = 1'



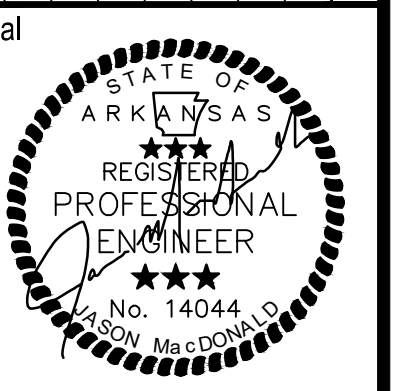
03 WEIR STRUCTURE-2  
 C603 SECTION VIEW A-A  
 1/2" = 1'



04 WEIR STRUCTURE-2  
 C603 SECTION VIEW B-B  
 1/2" = 1'

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 Filename: C:\Users\jmacdonald\OneDrive - Fisher Arnold, Inc\Desktop\WORK\ARKGAME003WR\CAD\Plans\C603 JUNCTION STRUCTURE - 1.dwg  
 Plotted: Friday, December 27, 2024 - 4:09 pm  
 By: jmacdonald

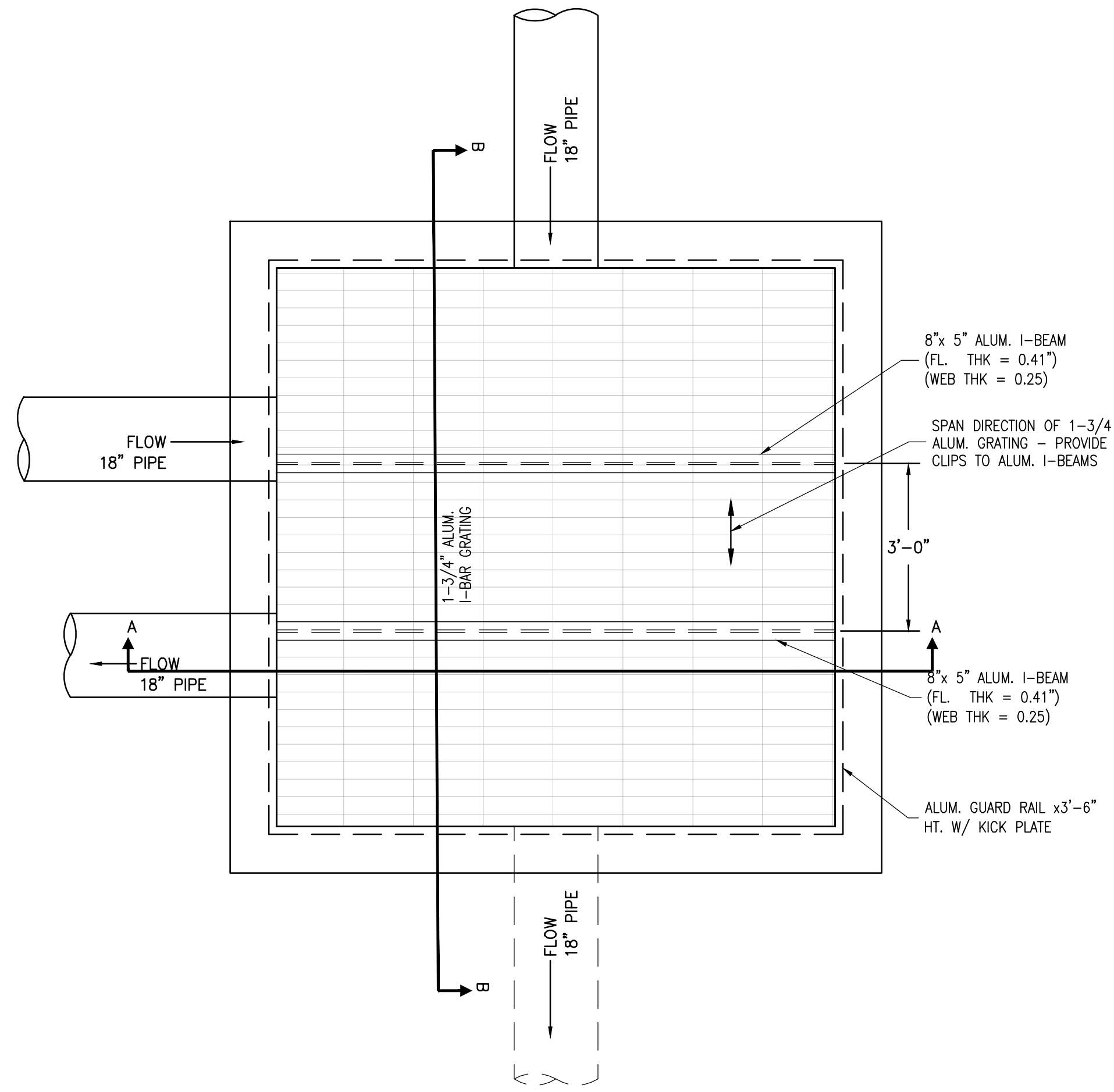
Rev.	Date	Revision Description



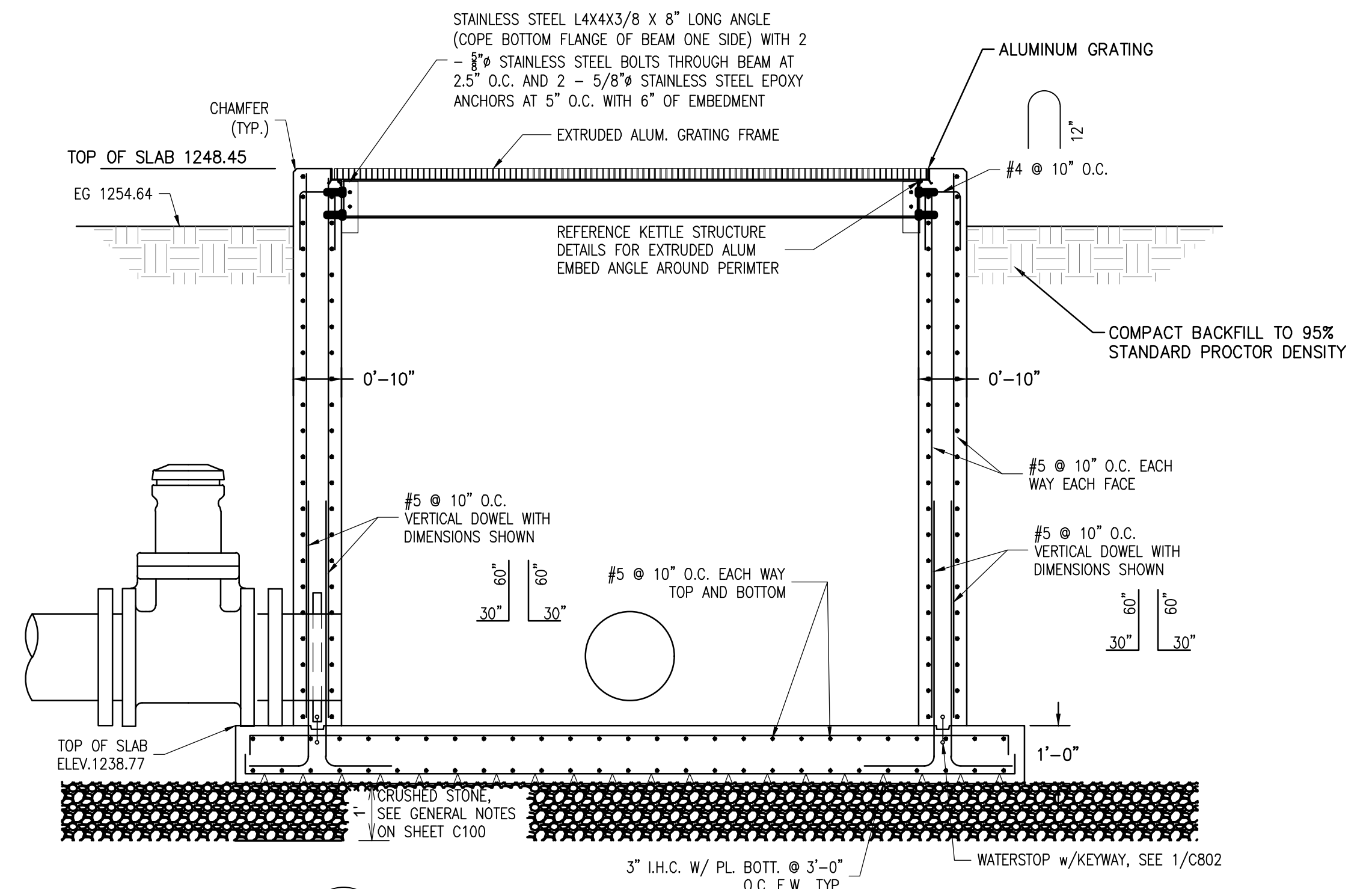
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 Project No: ARKGAMEF.0003 WR  
 Drawn By: CCC  
 Checked By: JM  
 Sheet Title:

JUNCTION  
 STRUCTURE - 1

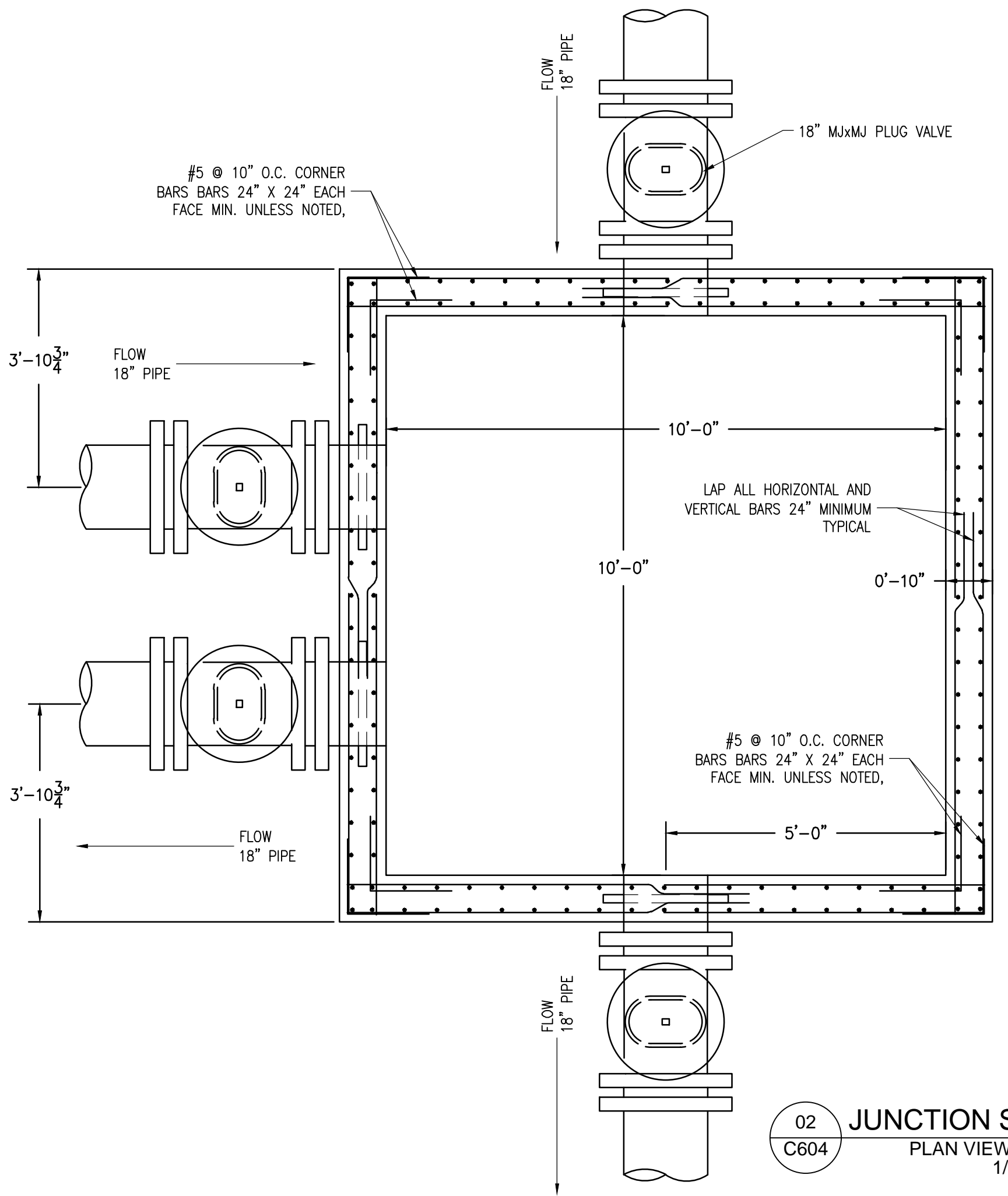
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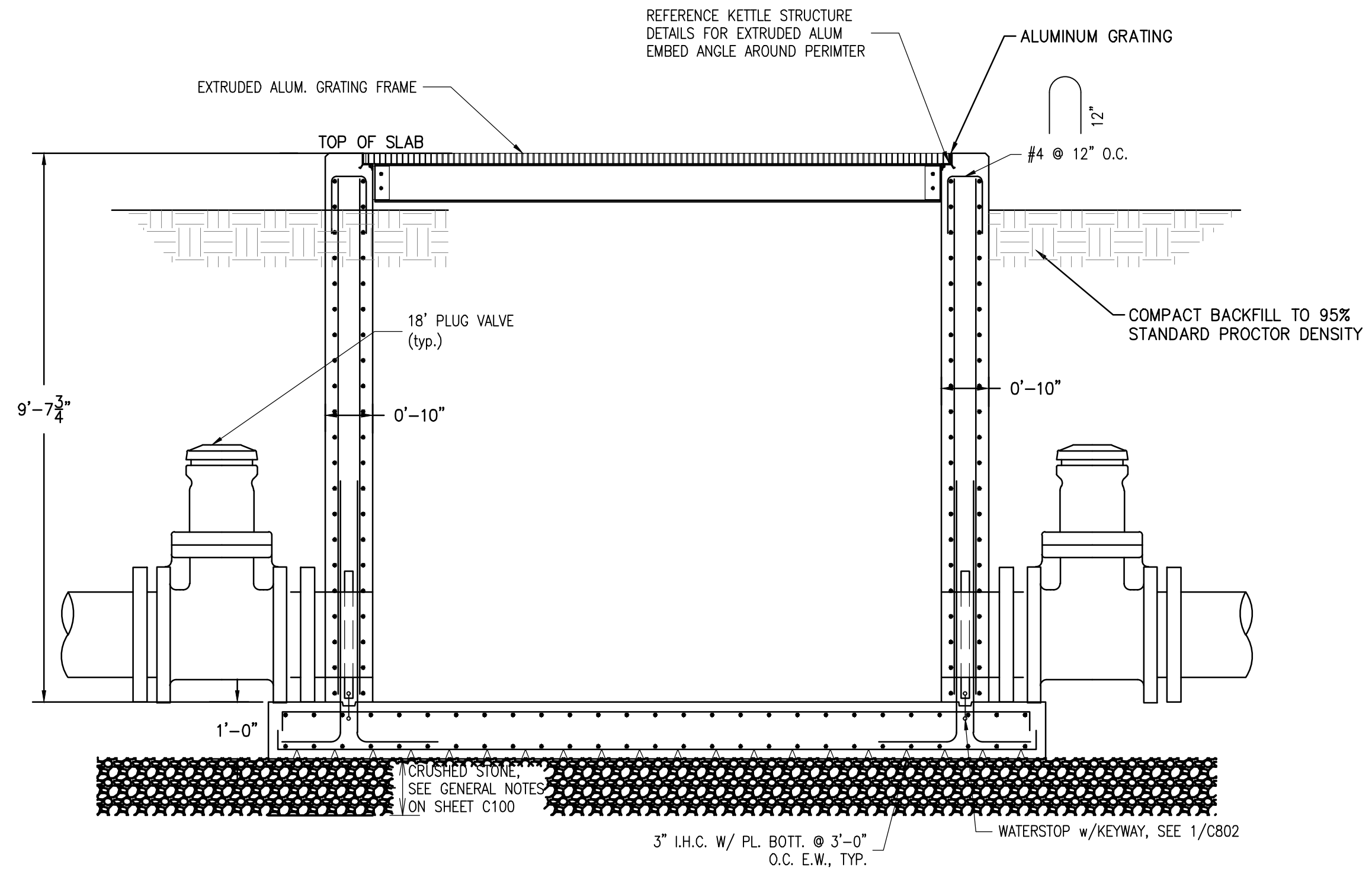
01 JUNCTION STURCTURE- 2  
C604 PLAN VIEW @ ELEV. 1248.45'  
1/2" = 1'



03 JUNCTION STURCTURE- 2  
C604 SECTION VIEW A-A  
1/2" = 1'



02 JUNCTION STURCTURE- 2  
C604 PLAN VIEW @ ELEV. 1245'  
1/2" = 1'



04 JUNCTION STURCTURE- 2  
C604 SECTION VIEW B-B  
1/2" = 1'

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 Filename: X:\AR\GAMEF\0003\WR\Civil\Xier\Jordan.Lane\Final DWG\JUNCTION STRUCTURE NO.2.dwg  
 Layout Name: C604 JUNCTION STRUCTURE - 2  
 Plotted: Monday, December 23, 2024 - 11:01 am

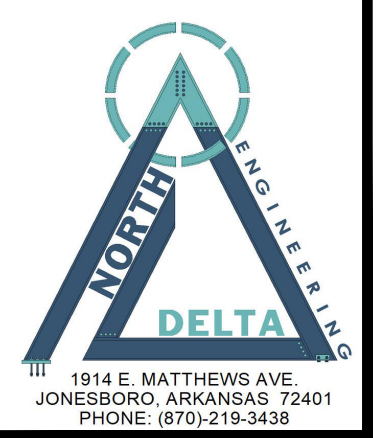
Rev.	Date	Revision Description

Seal  
  
 12/20/2024

Issue Date:  
 Project No: ARKGAMEF.0003 WR  
 Drawn By: CCC  
 Checked By: JM  
 Sheet Title:

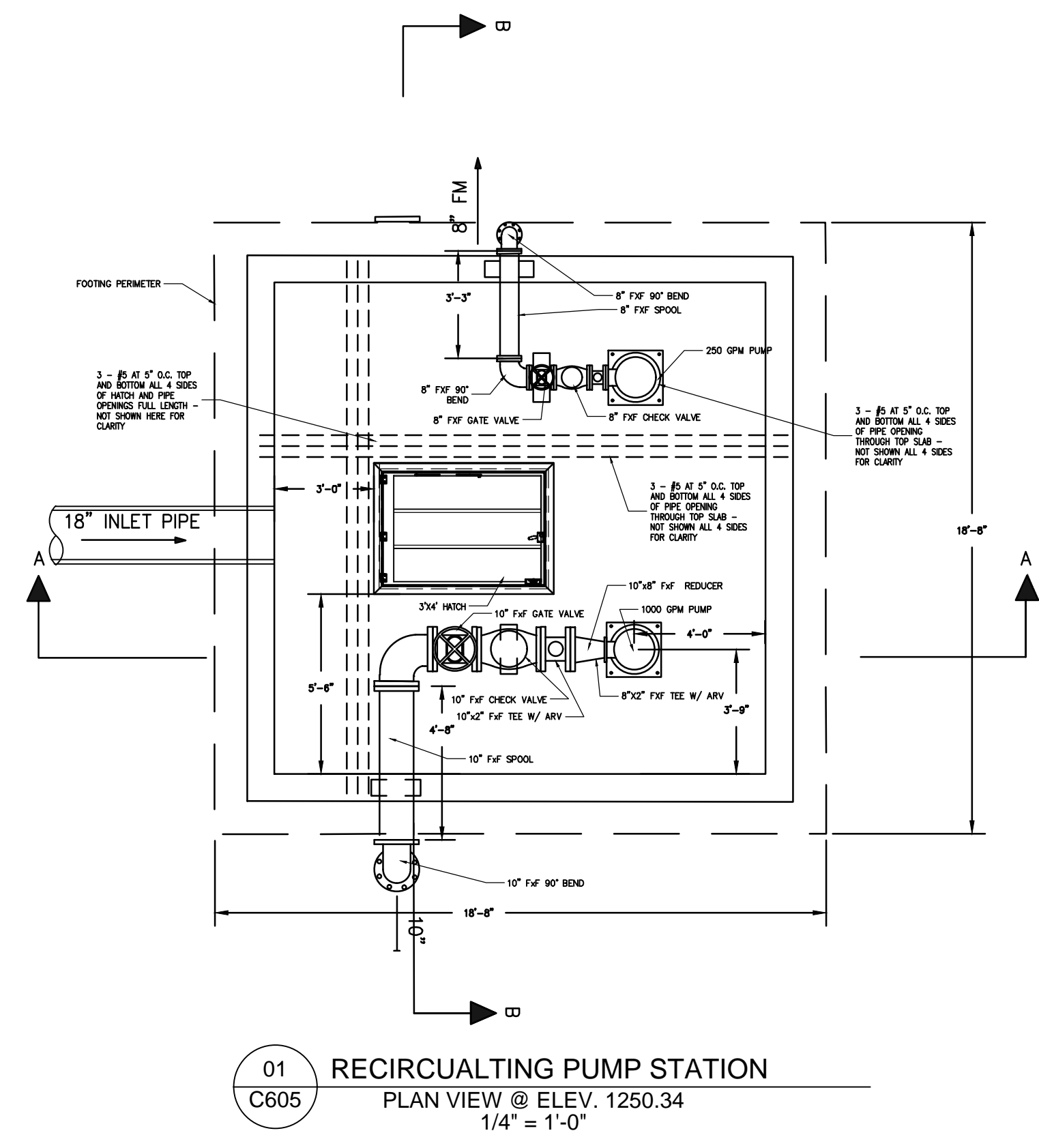
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 STRUCTURE - 2

Sheet Number:  
**C604**

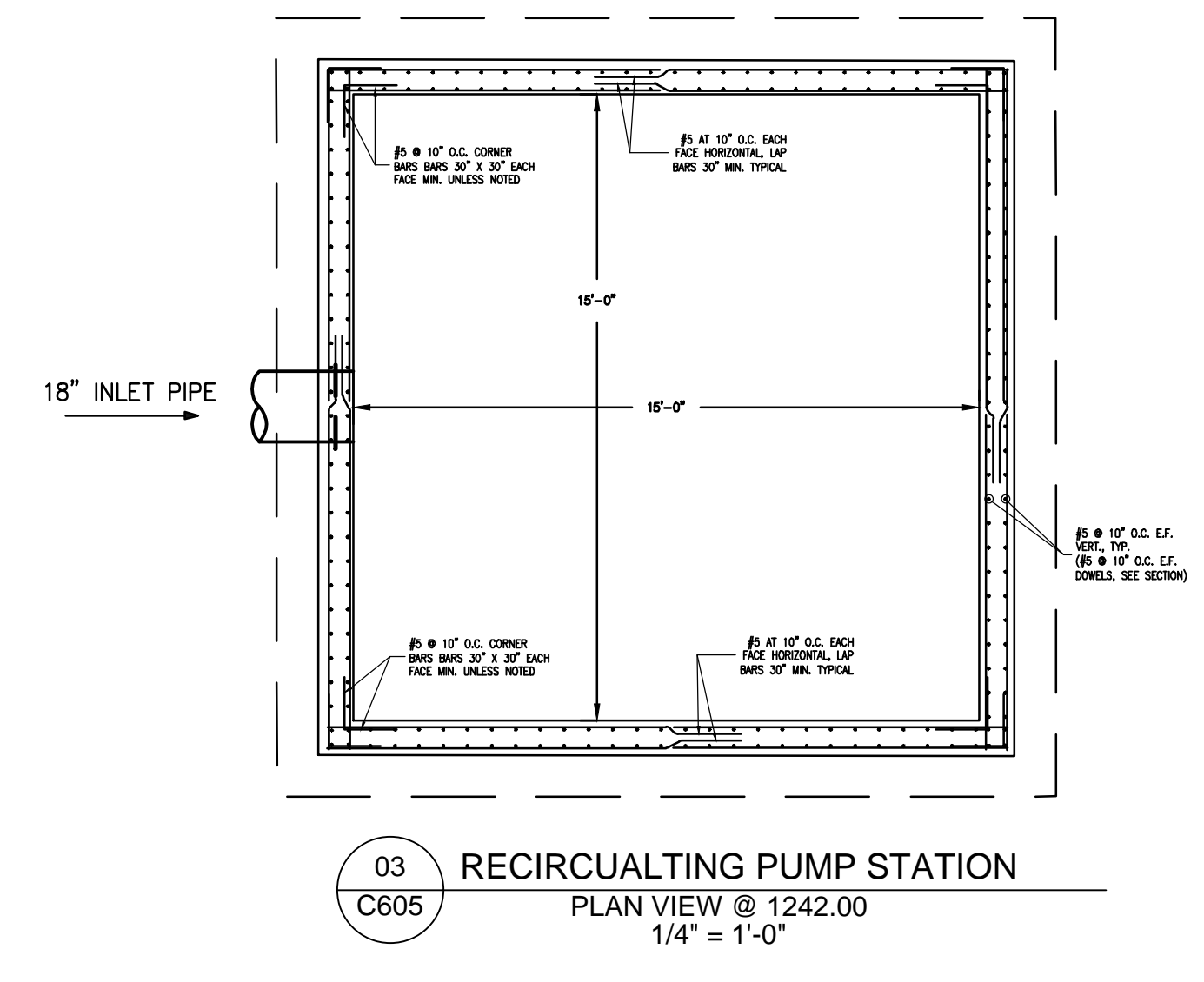


1814 E. MATTHEWS AVE.  
 JONESBORO, ARKANSAS 72401  
 PHONE: (870) 219-3438

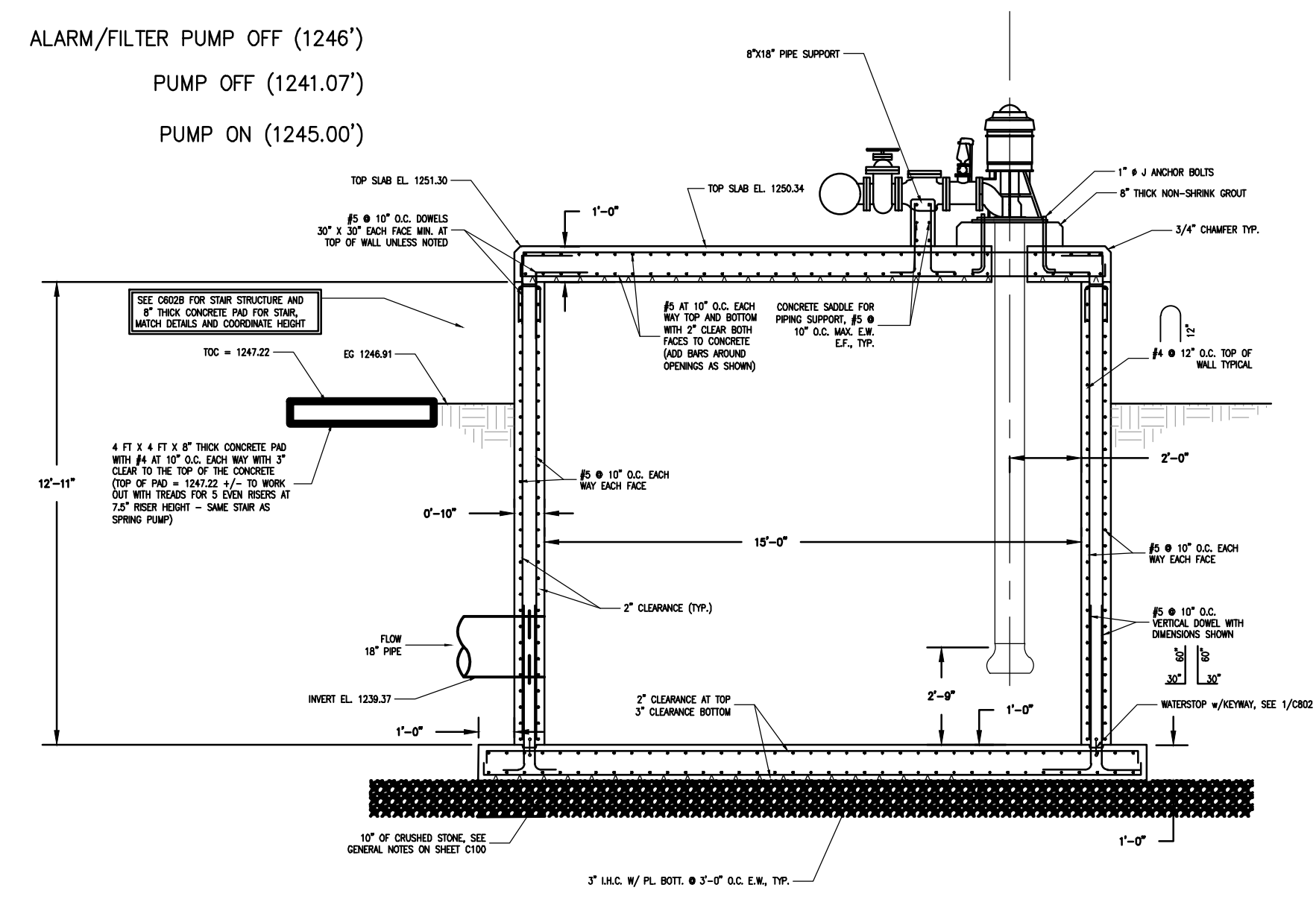
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 By: ccompenter



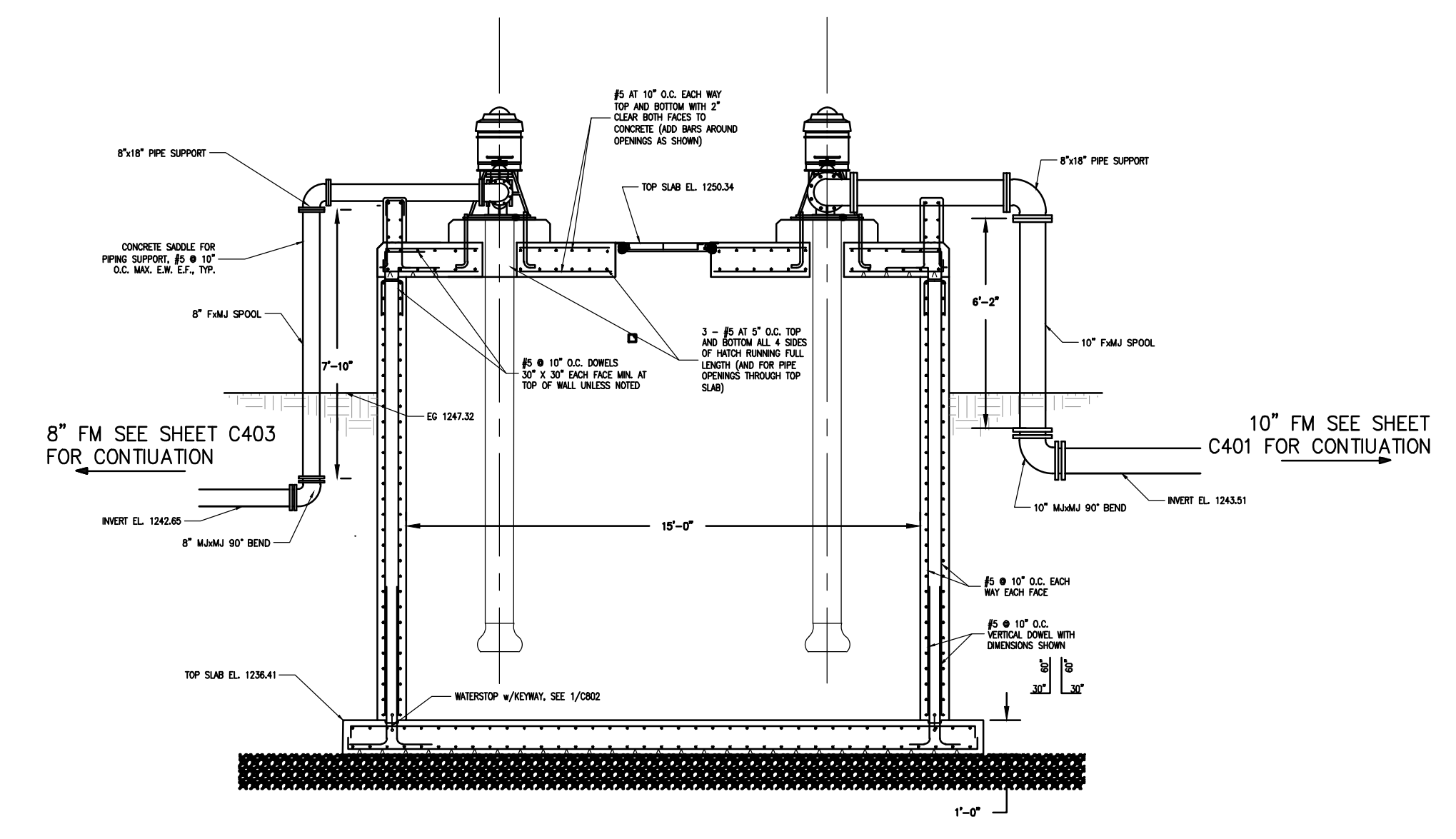
01 RECIRCULATING PUMP STATION  
 C605 PLAN VIEW @ ELEV. 1250.34  
 1/4" = 1'-0"



03 RECIRCULATING PUMP STATION  
 C605 PLAN VIEW @ 1242.00  
 1/4" = 1'-0"



02 RECIRCULATING PUMP STATION  
 C605 SECTION A - A  
 1/4" = 1'-0"



04 RECIRCULATING PUMP STATION  
 C605 SECTION B - B  
 1/4" = 1'-0"

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 CHARLIE CRAIG HATCHERY FOR  
 ARKANSAS GAME & FISH**  
 977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719

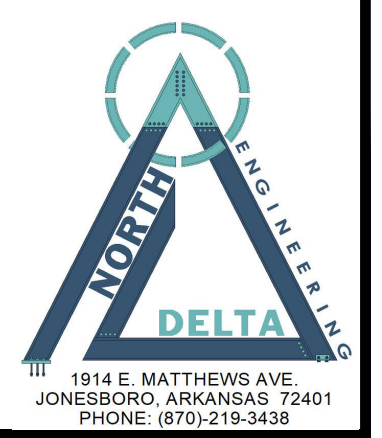
Rev.	Date	Revision Description

Seal  
 STATE OF ARKANSAS  
 REGISTERED PROFESSIONAL ENGINEER  
 JORDAN W. JANE  
 No. 12989  
 12/20/2024

Issue Date:  
 Project No: ARKGAMEF.0003.WR  
 Drawn By: CCC  
 Checked By: JM  
 Sheet Title:

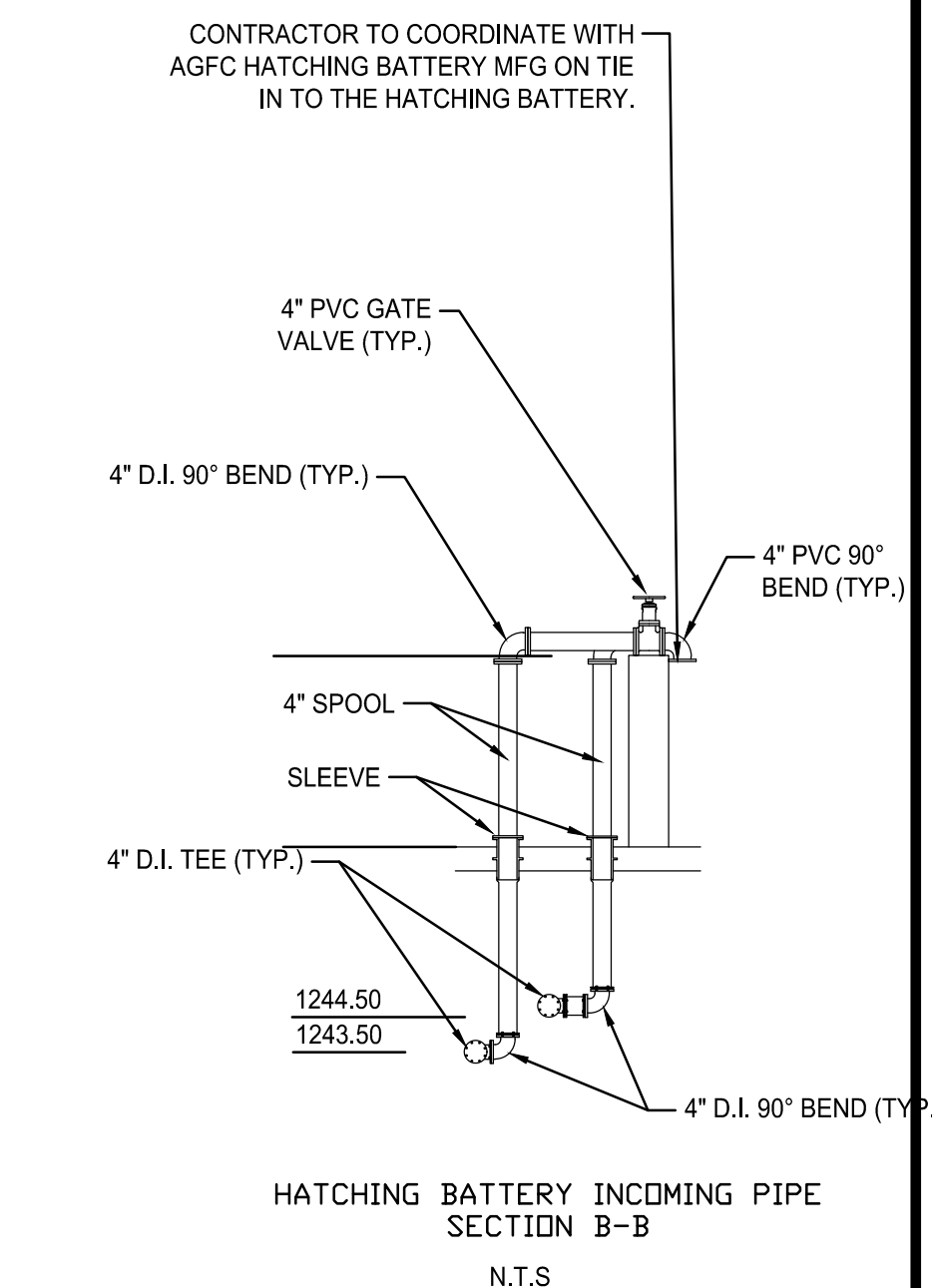
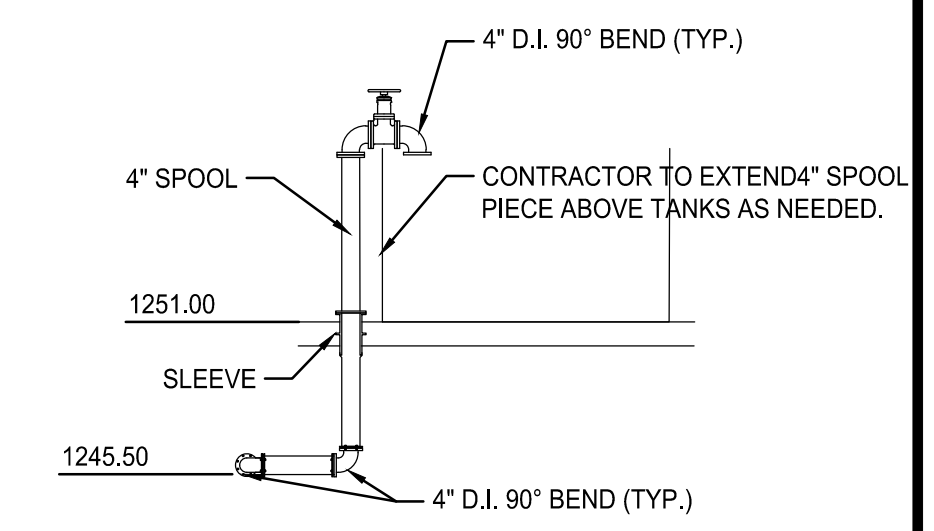
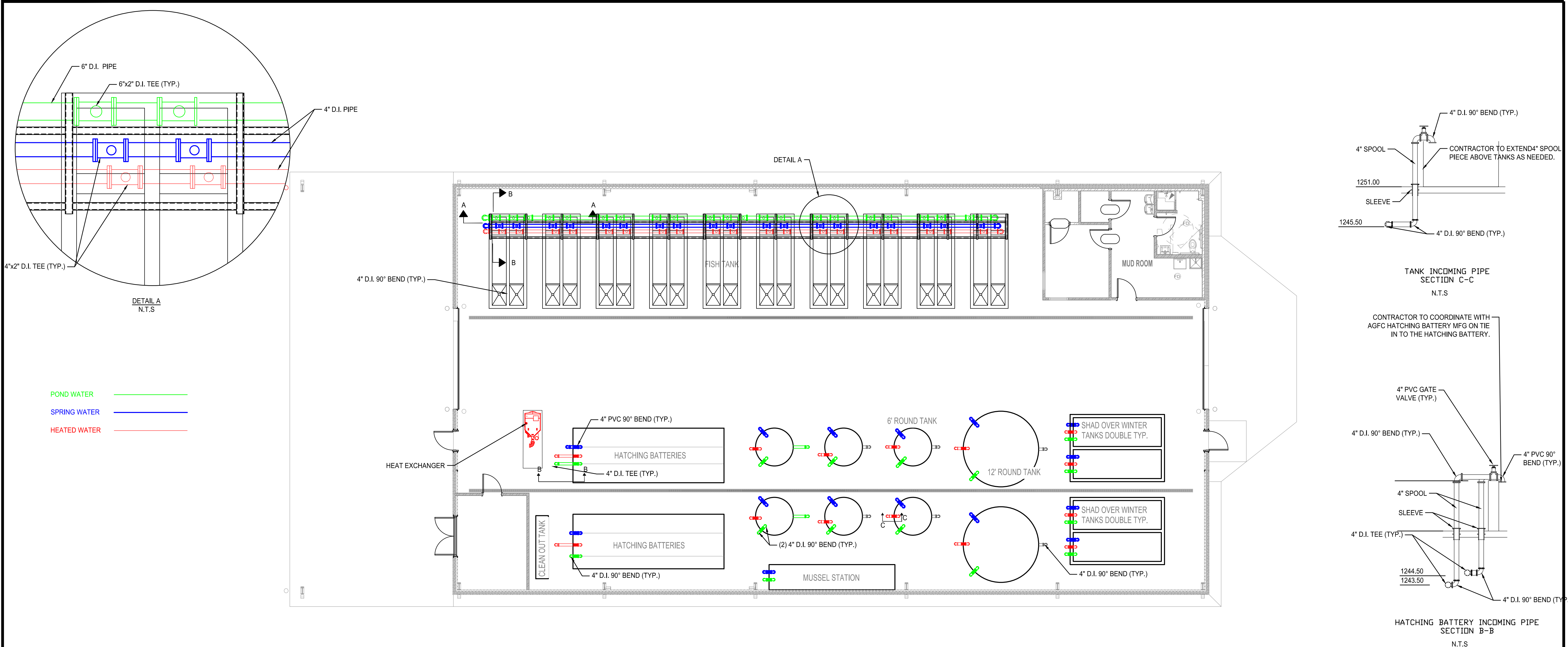
RECIRCULATING  
 PUMP STATION

Sheet Number:  
**C605**

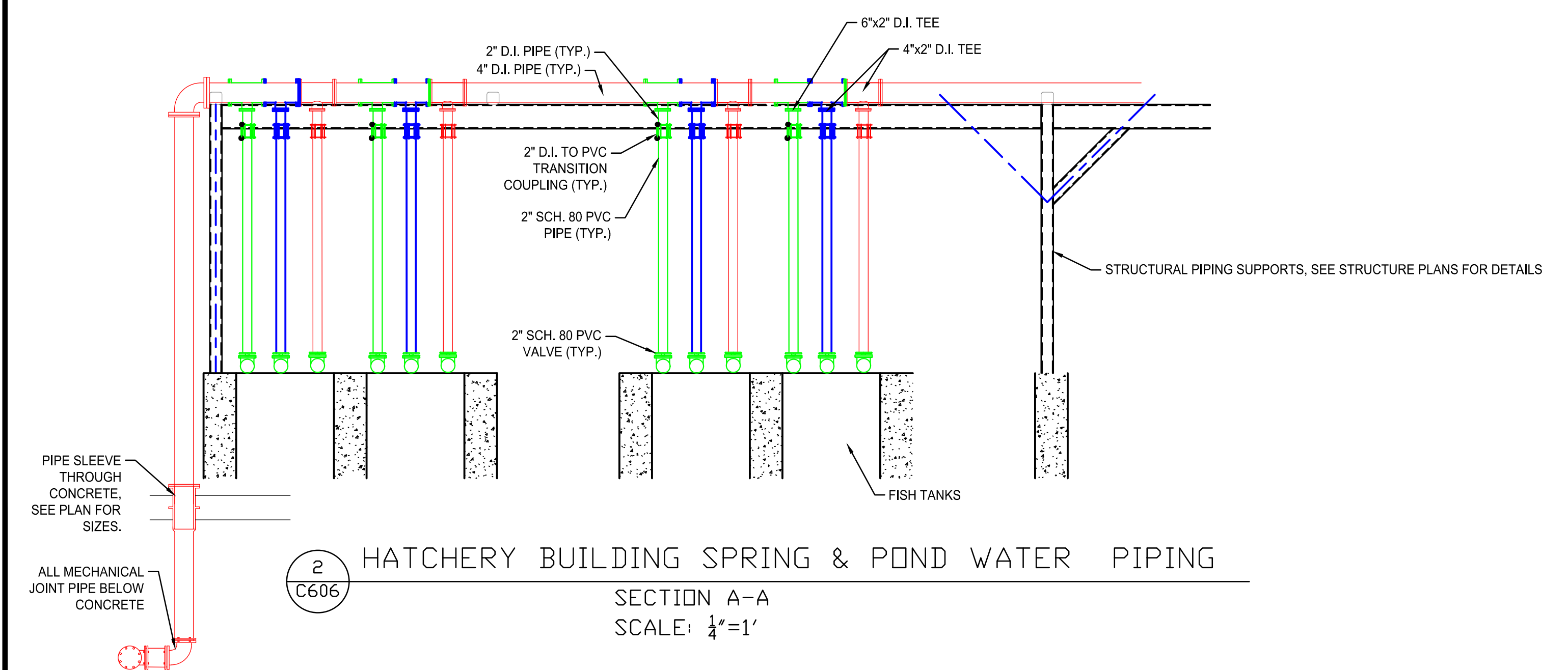


1814 E. MATTHEWS AVE.  
 JONESBORO, ARKANSAS 72401  
 PHONE: (870) 219-3438

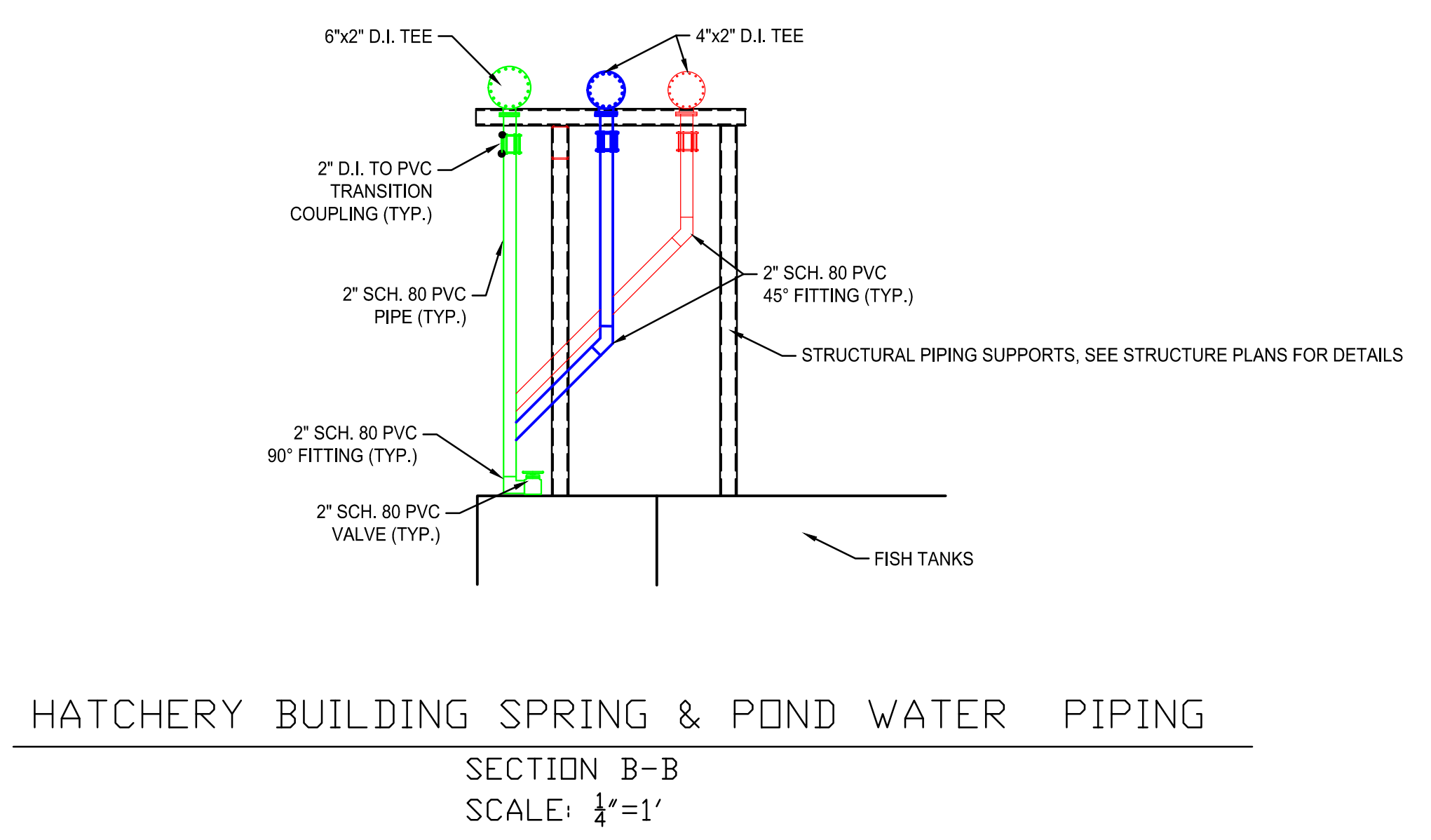
Copyright 2024 Fisher & Arnold, Inc., all rights reserved.  
 File Name: C:\Users\jmacdonald\OneDrive\Fisher Arnold, Inc\Desktop\WORK\ARKGAME0003WR\CAD\Plans\C606 HATCHERY BUILDING ABOVE SLAB PROCESS PIPING PLAN.dwg  
 Plotted: Sunday, December 29, 2024 11:41 pm  
 By: jmacdonald



1  
 C606 HATCHERY BUILDING SPRING & POND WATER PIPING  
 PLAN VIEW  
 SCALE: 1/8"=1'



2  
 C606 HATCHERY BUILDING SPRING & POND WATER PIPING  
 SECTION A-A  
 SCALE: 1/4"=1'



HATCHERY BUILDING SPRING & POND WATER PIPING  
 SECTION B-B  
 SCALE: 1/4"=1'

Rev.	Date	Revision Description



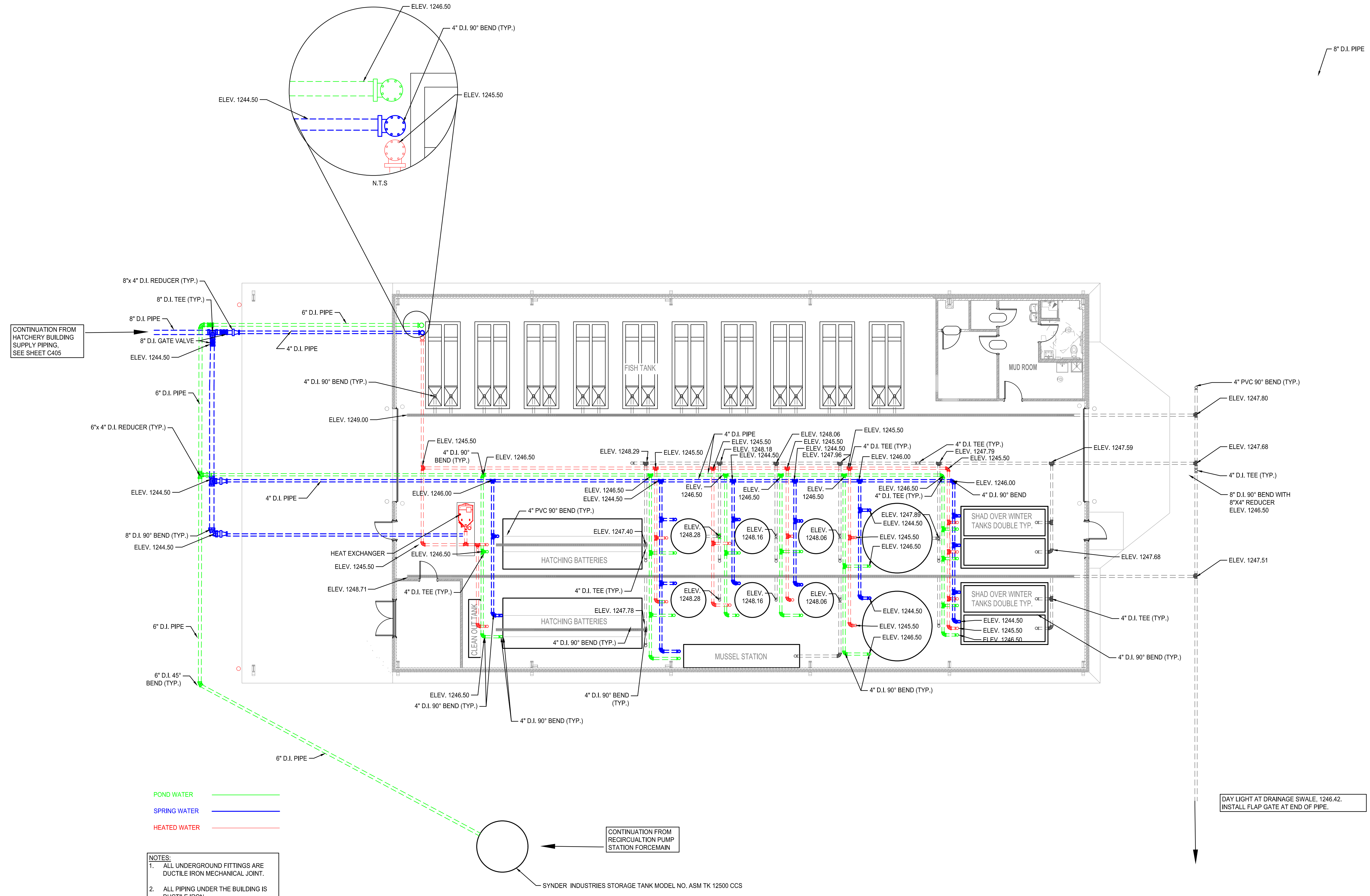
Issue Date:  
 Project No: ARKGAMEF.0003 WR  
 Drawn By: CCC  
 Checked By: JM  
 Sheet Title:

**HATCHERY BUILDING ABOVE SLAB PROCESS PIPING PLAN**

Sheet Number:  
**C606**



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 File Name: C:\Users\jmacdonald\OneDrive\Work\ARKGAME003WR\CAD\Plans\HATCHERY BUILDING UNDER SLAB PIPING.dwg  
 Plotted: Sunday, December 29, 2024 - 11:01 pm  
 By: jmacdonald



POND WATER ———  
 SPRING WATER ———  
 HEATED WATER ———

- NOTES:
- ALL UNDERGROUND FITTINGS ARE DUCTILE IRON MECHANICAL JOINT.
  - ALL PIPING UNDER THE BUILDING IS DUCTILE IRON.
  - PIPING FROM HATCHERY BUILDING WILL BE AT 1244.50.
  - PIPING FROM HEAT EXCHANGE WILL BE AT 1245.50.
  - PIPING FROM THE POND PUMP WILL BE AT 1246.50.
  - THE DRAINAGE PIPE WILL RANGE FROM 1249.00 TO 1246.5.

1  
 C605 HATCHERY BUILDING UNDERSLAB PROCESS PIPING PLAN  
 PLAN VIEW  
 SCALE: 1/8"=1'

**FACILITY UPGRADES AT  
 CHARLIE CRAIG HATCHERY FOR  
 ARKANSAS GAME & FISH**  
 977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719

Rev.	Date	Revision Description

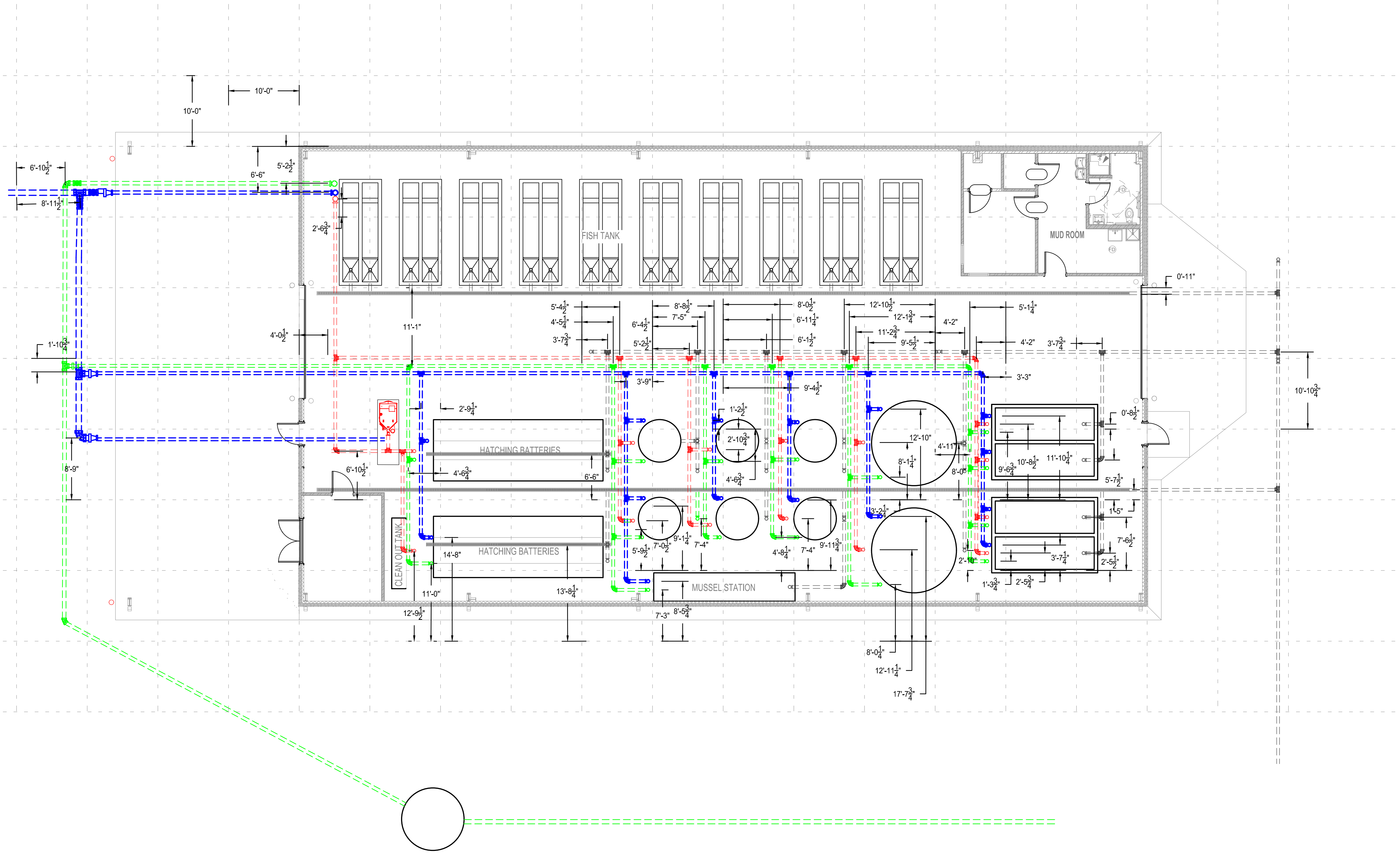


Issue Date:  
 Project No: ARKGAMEF.0003 WR  
 Drawn By: CCC  
 Checked By: JM  
 Sheet Title:  
**HATCHERY BUILDING UNDERSLAB PROCESS PIPING PLAN**

Sheet Number:  
**C607**

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Filename: C:\Users\jmacdonald\OneDrive\Documents\Fisher Arnold, Inc\Desktop\WORK\ARKGAME0003WR\CAD\Plans\HATCHERY BUILDING Layout\_Plan.dwg  
Plotted: Sunday, December 29, 2024 - 11:03 pm  
By: jmacdonald

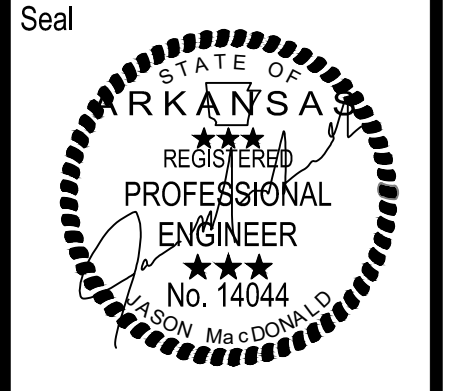
POND WATER ———  
SPRING WATER ———  
HEATED WATER ———



1 C608 HATCHERY BUILDING UNDERSLAB PROCESS PIPING LAYOUT PLAN  
PLAN VIEW  
SCALE: 1/8"=1'

- NOTES:
1. ALL UNDERGROUND FITTINGS ARE DUCTILE IRON MECHANICAL JOINT.
  2. ALL PIPING UNDER THE BUILDING IS DUCTILE IRON.
  3. PIPING FROM HATCHERY BUILDING WILL BE AT 1244.50.
  4. PIPING FROM HEAT EXCHANGE WILL BE AT 1245.50.
  5. PIPING FROM THE POND PUMP WILL BE AT 1246.50.
  6. THE DRAINAGE PIPE WILL RANGE FROM 1249.00 TO 1246.5.

Rev.	Date	Revision Description



Issue Date:  
Project No: ARKGAMEF.0003 WR  
Drawn By: CCC  
Checked By: JM  
Sheet Title:

HATCHERY BUILDING PROCESS PIPING LAYOUT PLAN

Sheet Number:  
C608

**FACILITY UPGRADES AT  
 CHARLIE CRAIG HATCHERY FOR  
 ARKANSAS GAME & FISH**  
 977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719

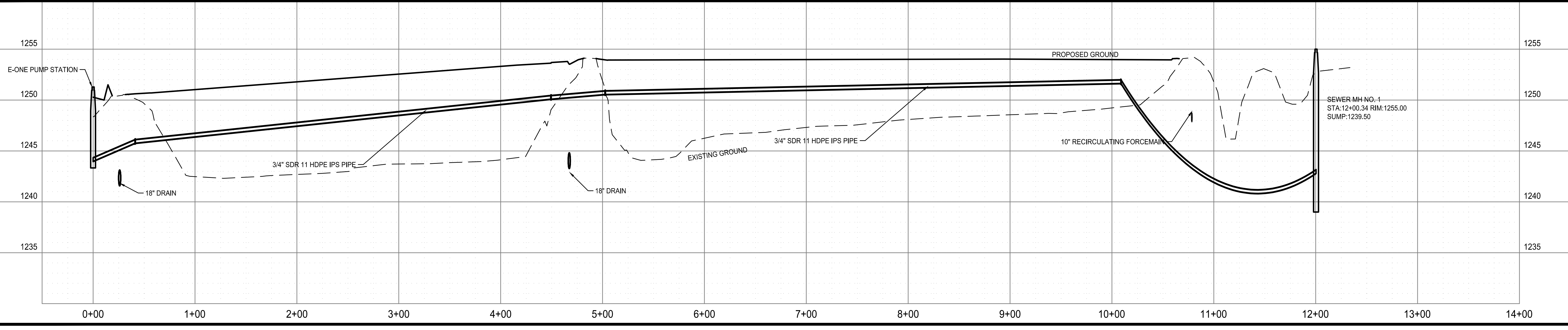
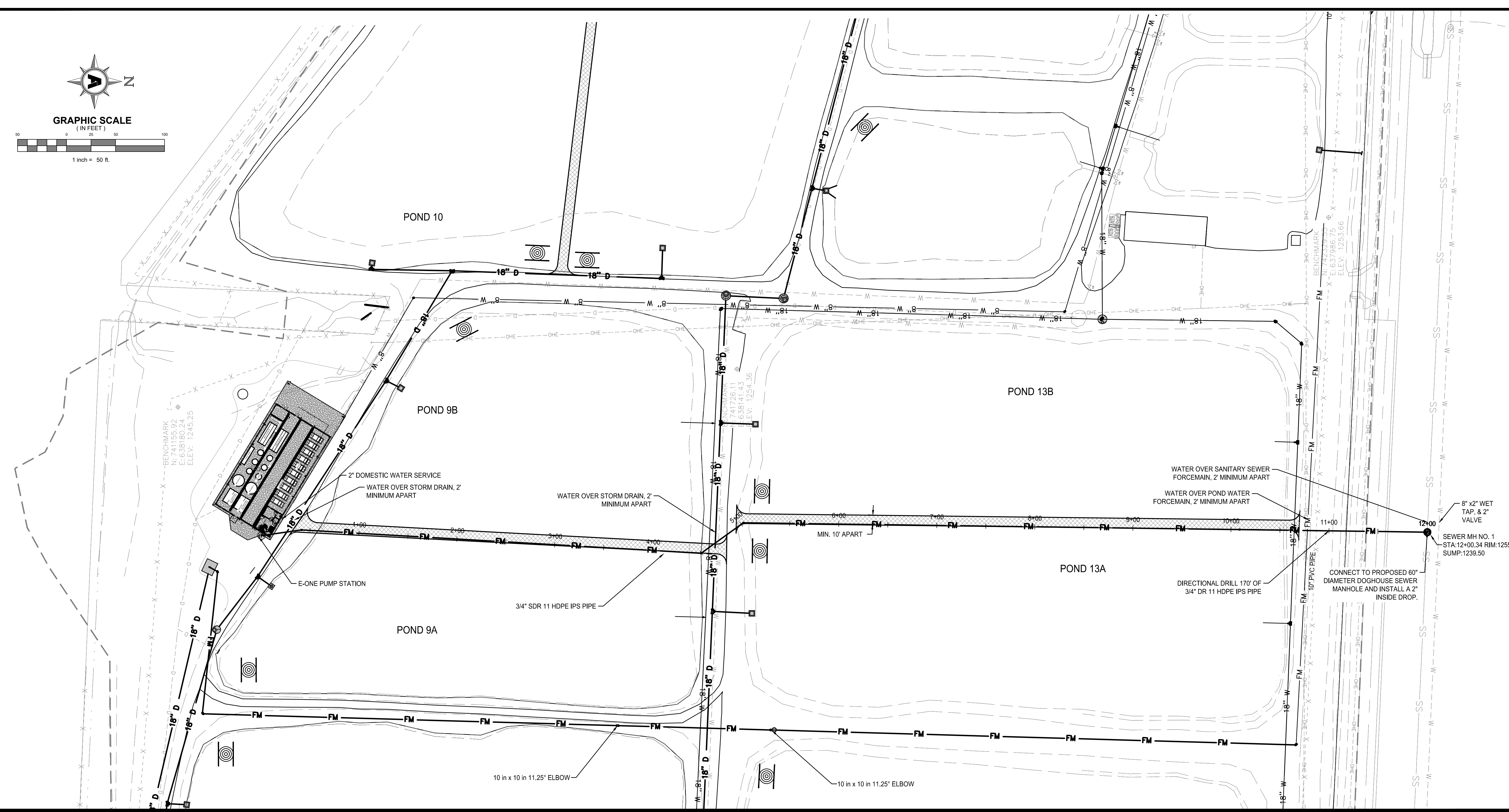
Rev.	Date	Revision Description



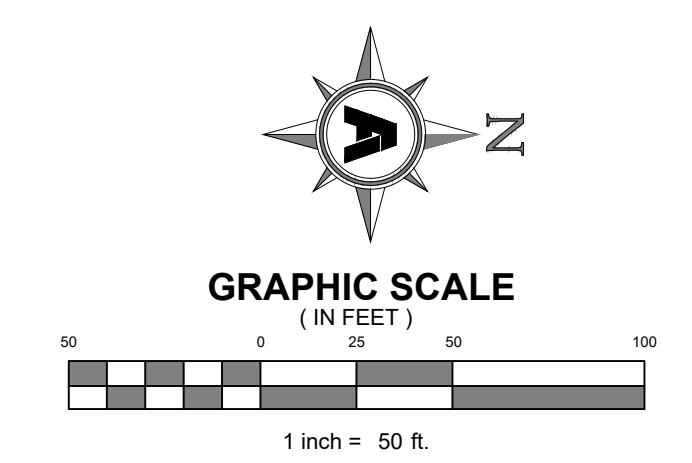
Issue Date:  
 Project No: ARKGAMEF.0003 WR  
 Drawn By: CCC  
 Checked By: JM

Sheet Title:  
**HATCHERY  
 BUILDING WATER  
 AND SEWER  
 PIPING PLAN**

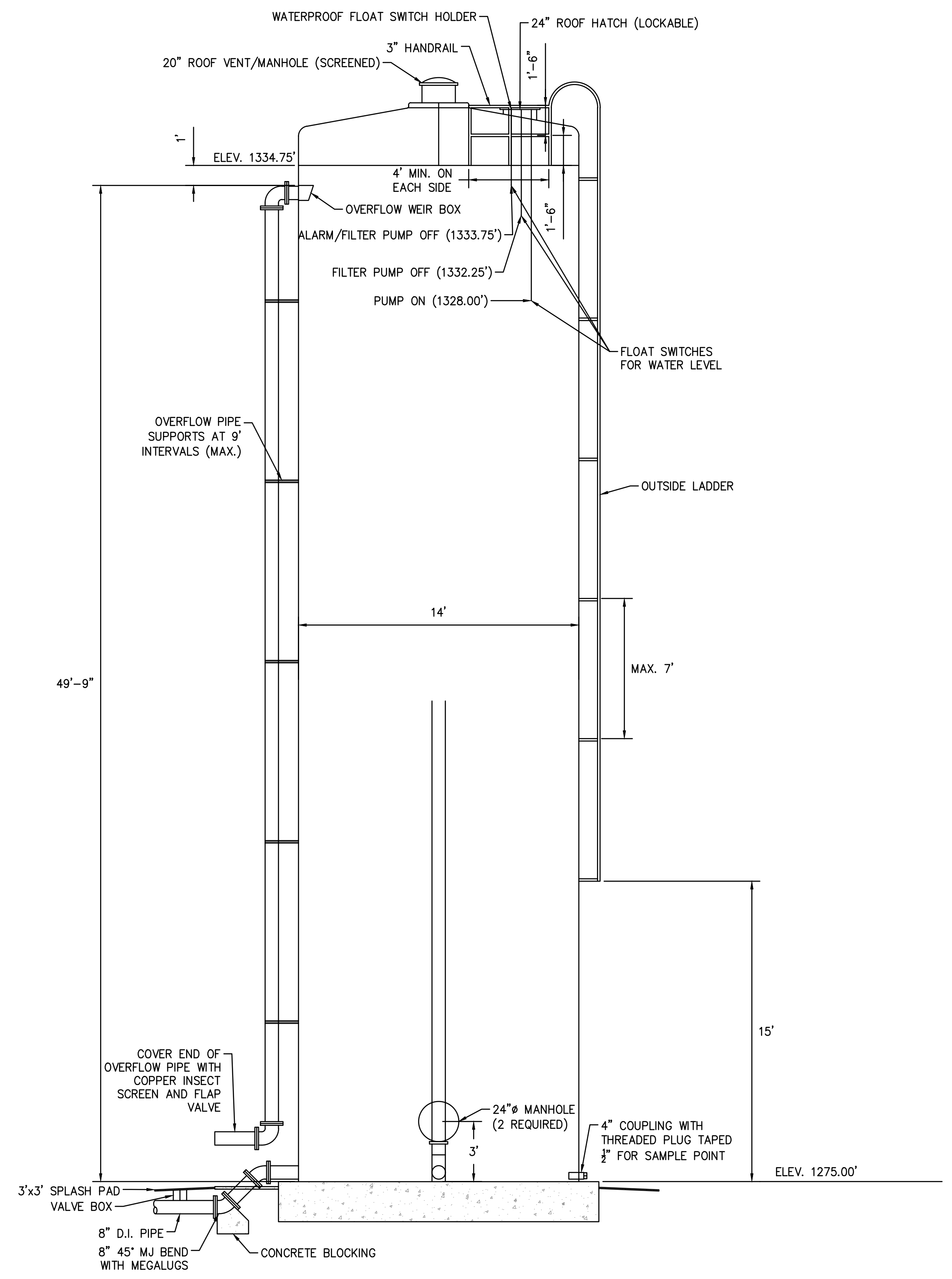
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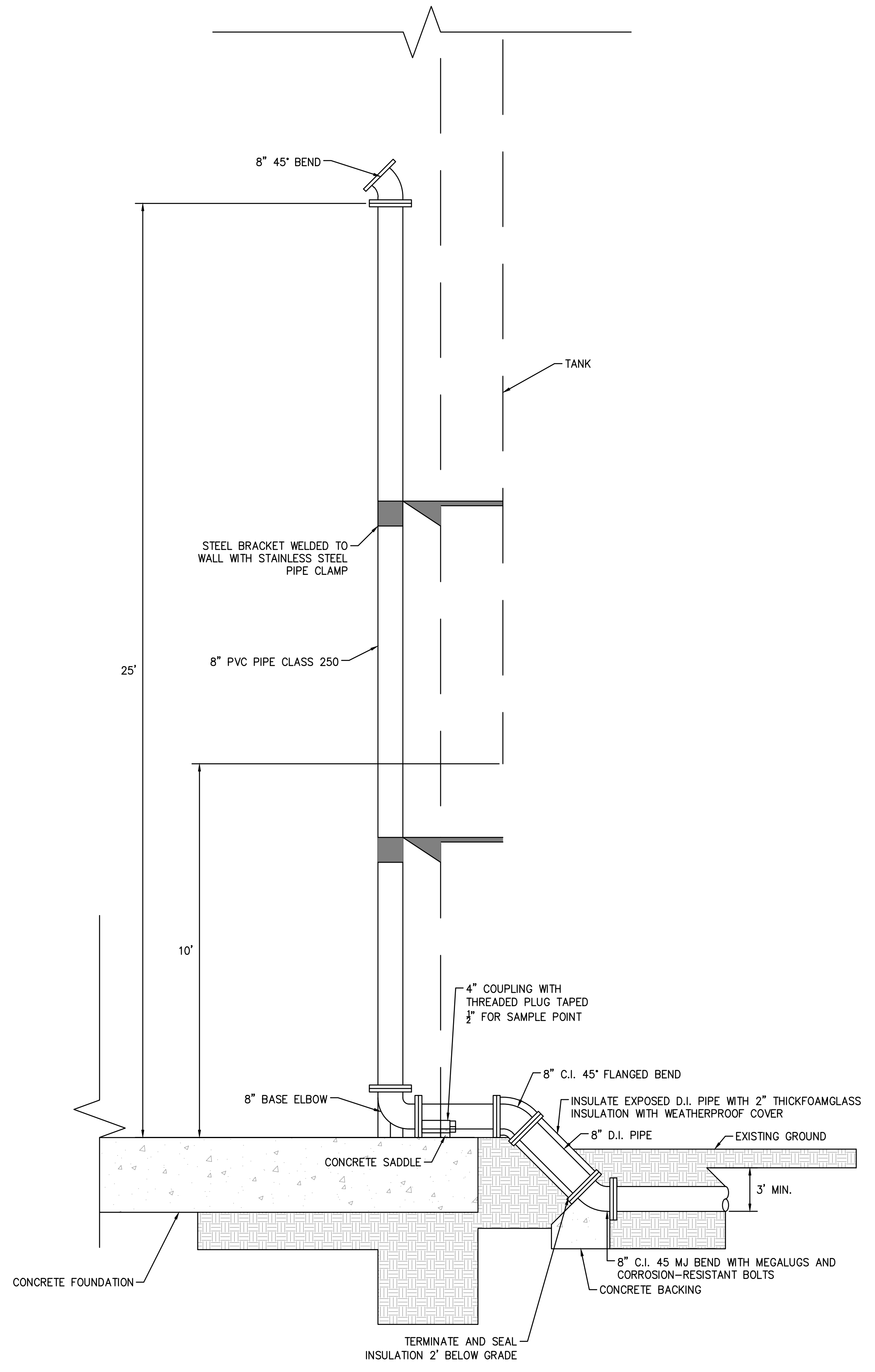
Copyright 2024 Fisher & Arnold, Inc., all rights reserved.  
 Layout Name: C609 RECIRCULATING PIPE (STA 0+00 - STA 14+00)  
 Plotted: Sunday, December 29, 2024 - 5:10 pm  
 By: jmcadnald



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 File Name: C:\Users\jmacdonald\OneDrive - Fisher Arnold, Inc\Desktop\WORK\ARKGAME0003WR\CAD\Plans\C700 TANK DETAILS.dwg  
 Plotted: Sunday, December 29, 2024 - 5:32 pm  
 By: jmacdonald



(A) STANDPIPE TANK DETAIL  
 SECTION VIEW  
 SCALE: 1/4" = 1'-0"



(B) INLET PIPING DETAIL  
 SECTION VIEW  
 SCALE: 1/2" = 1'-0"

**FACILITY UPGRADES AT  
 CHARLIE CRAIG HATCHERY FOR  
 ARKANSAS GAME & FISH**  
 977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719

Rev.	Date	Revision Description

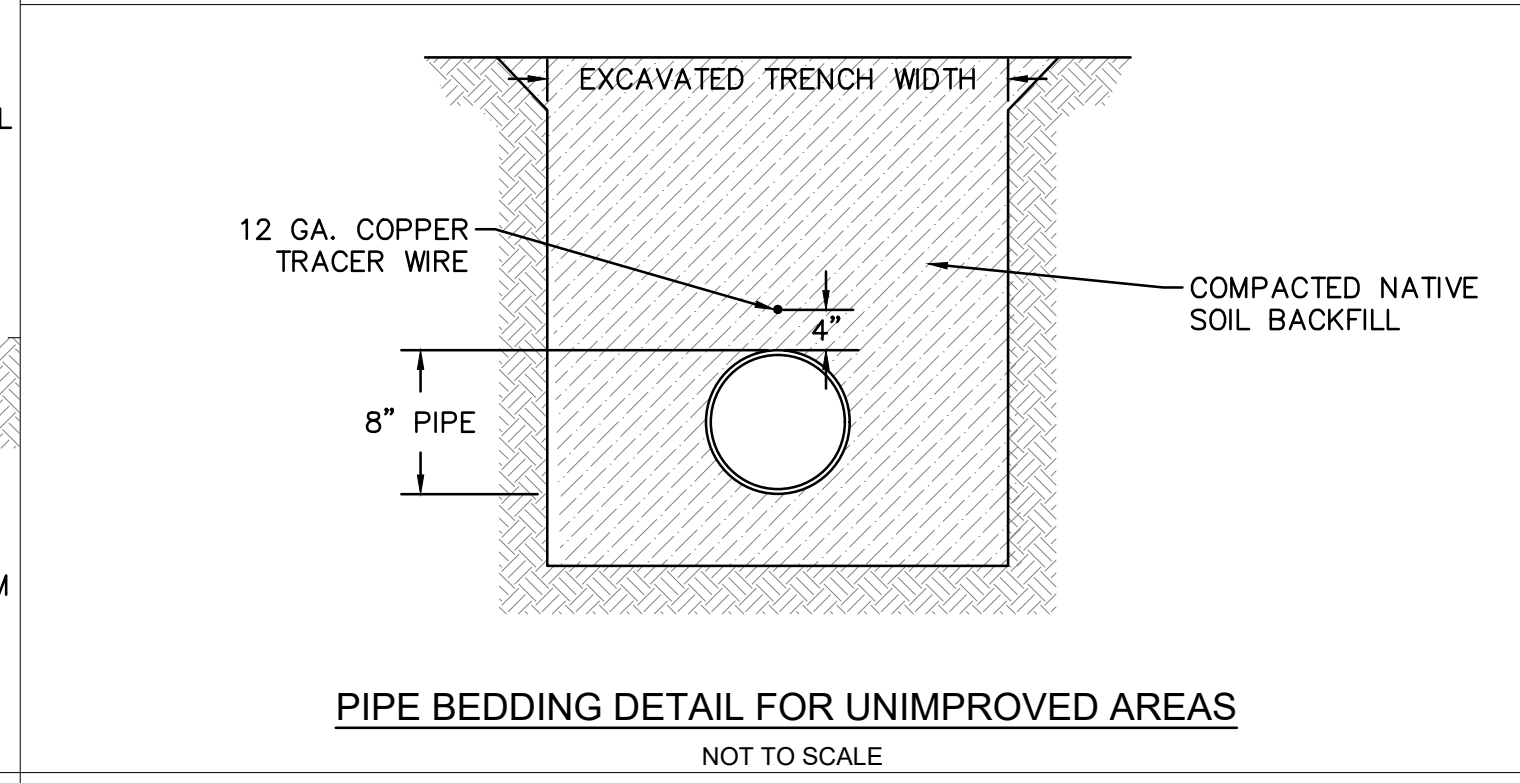
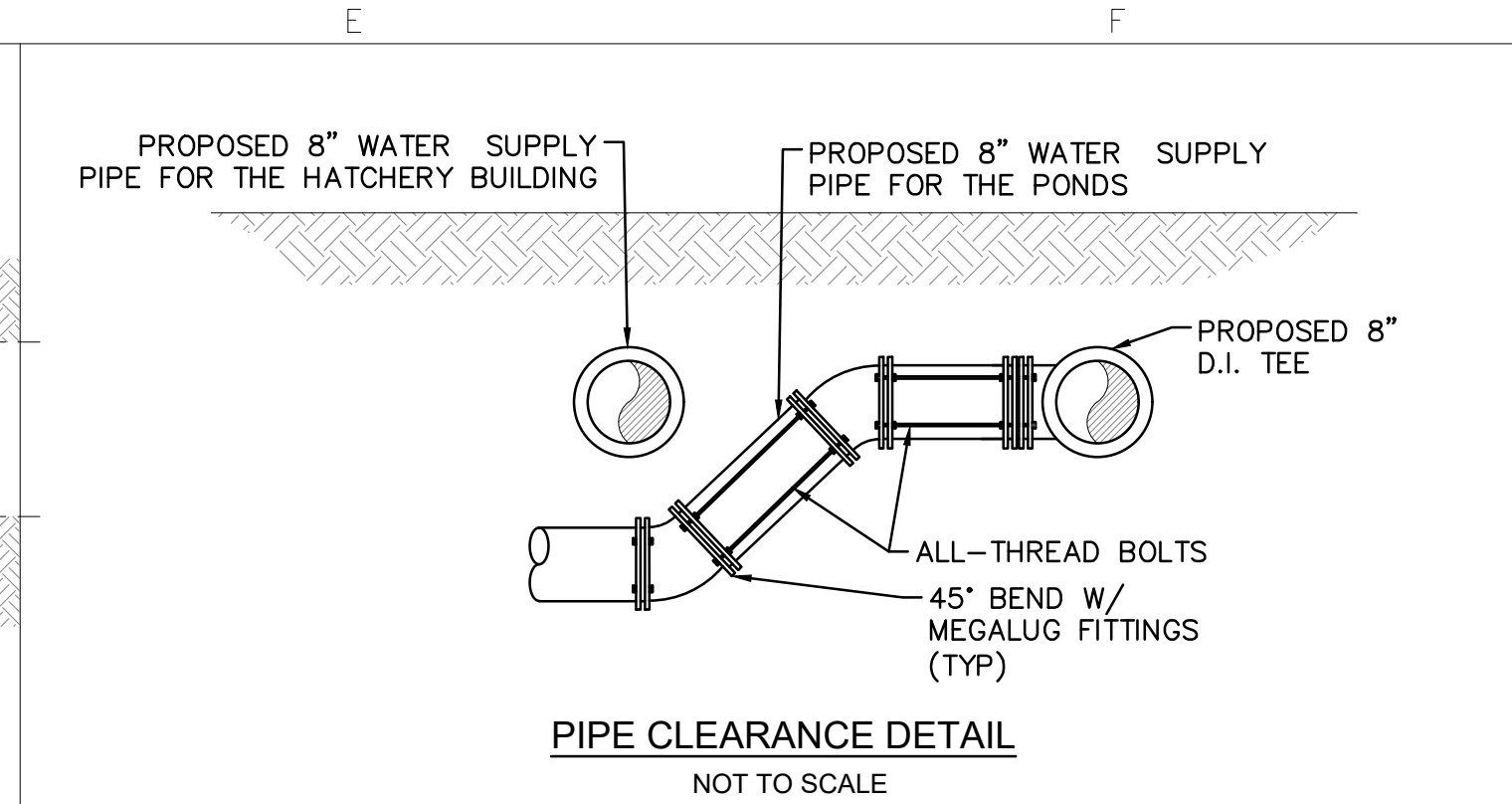
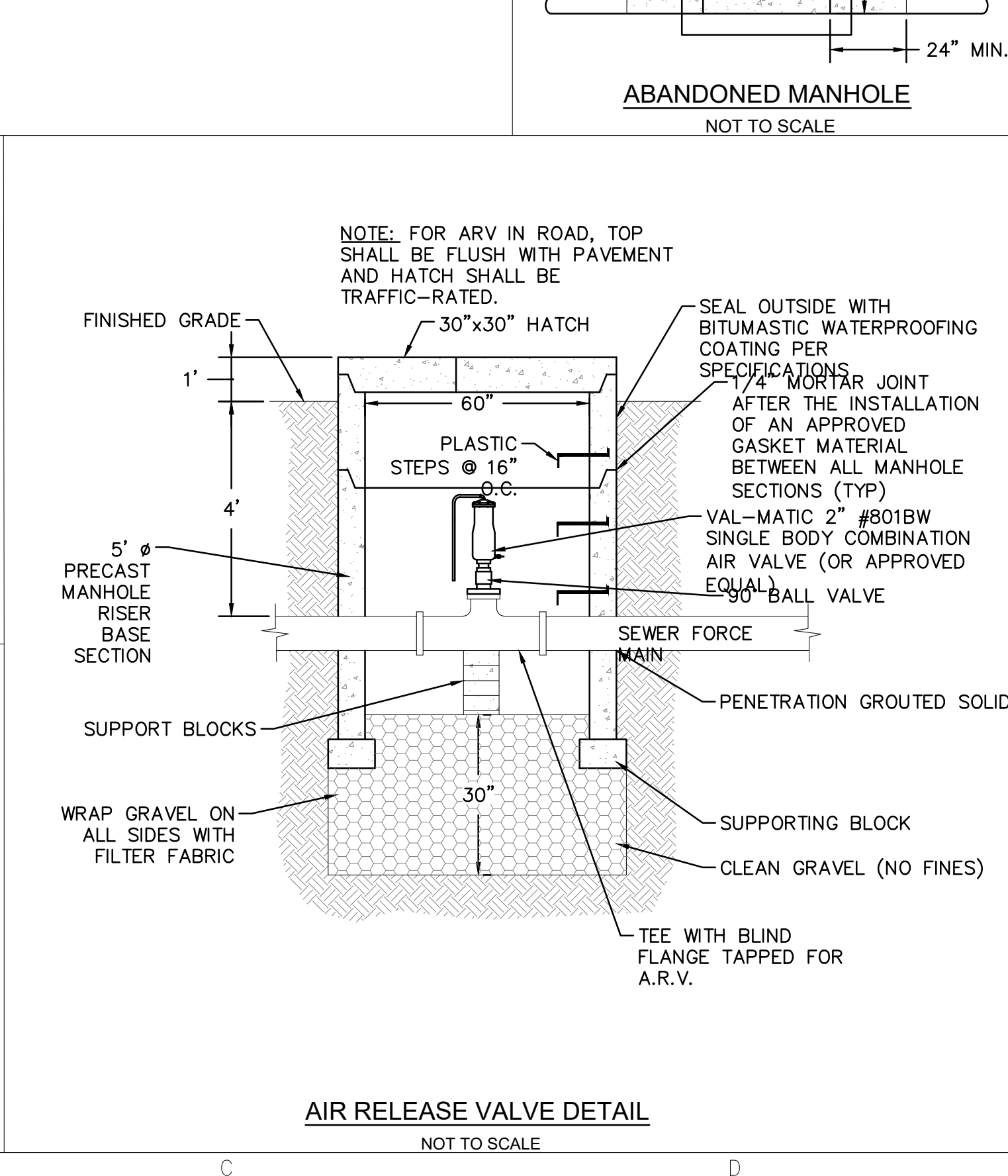
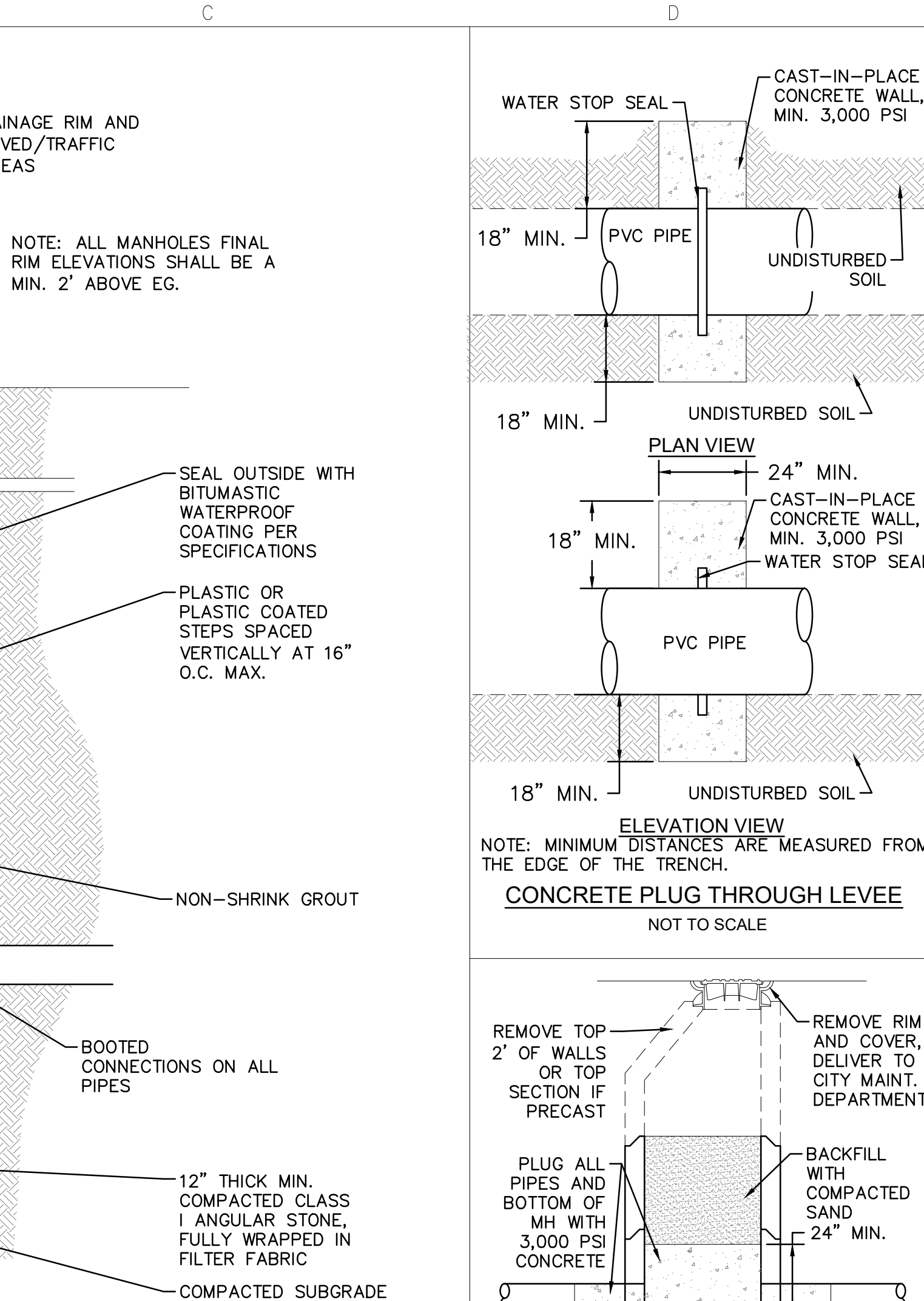
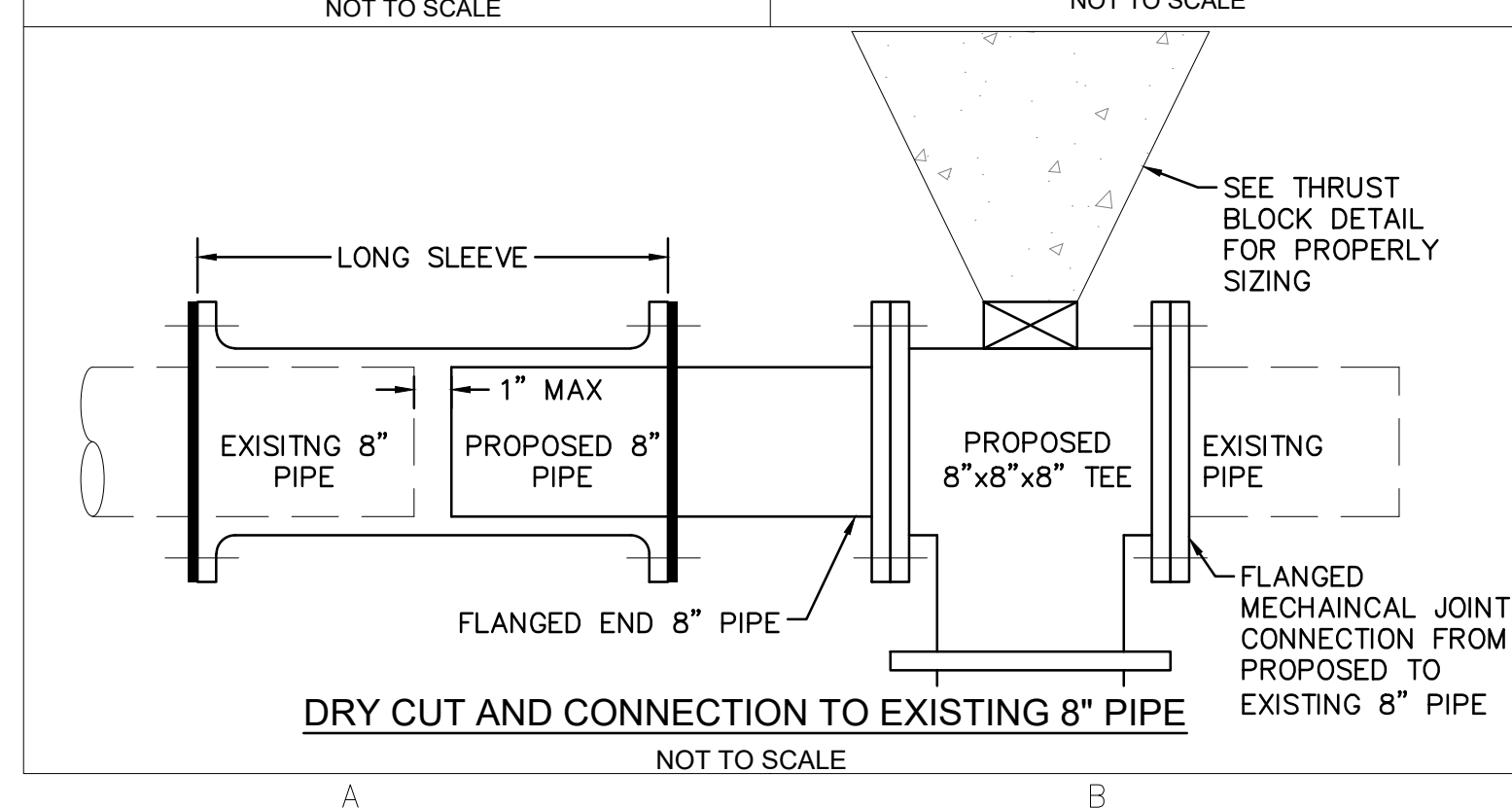
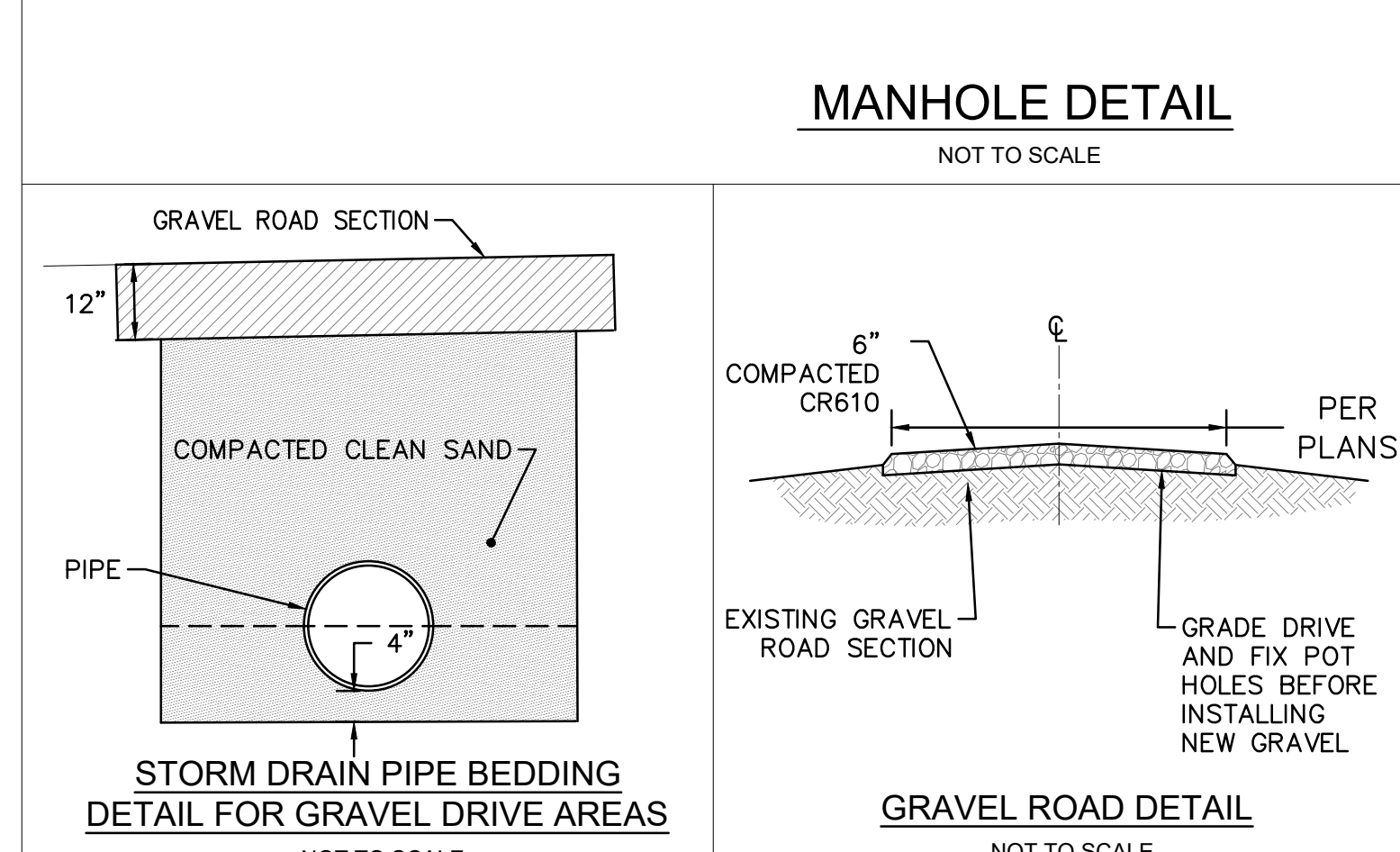
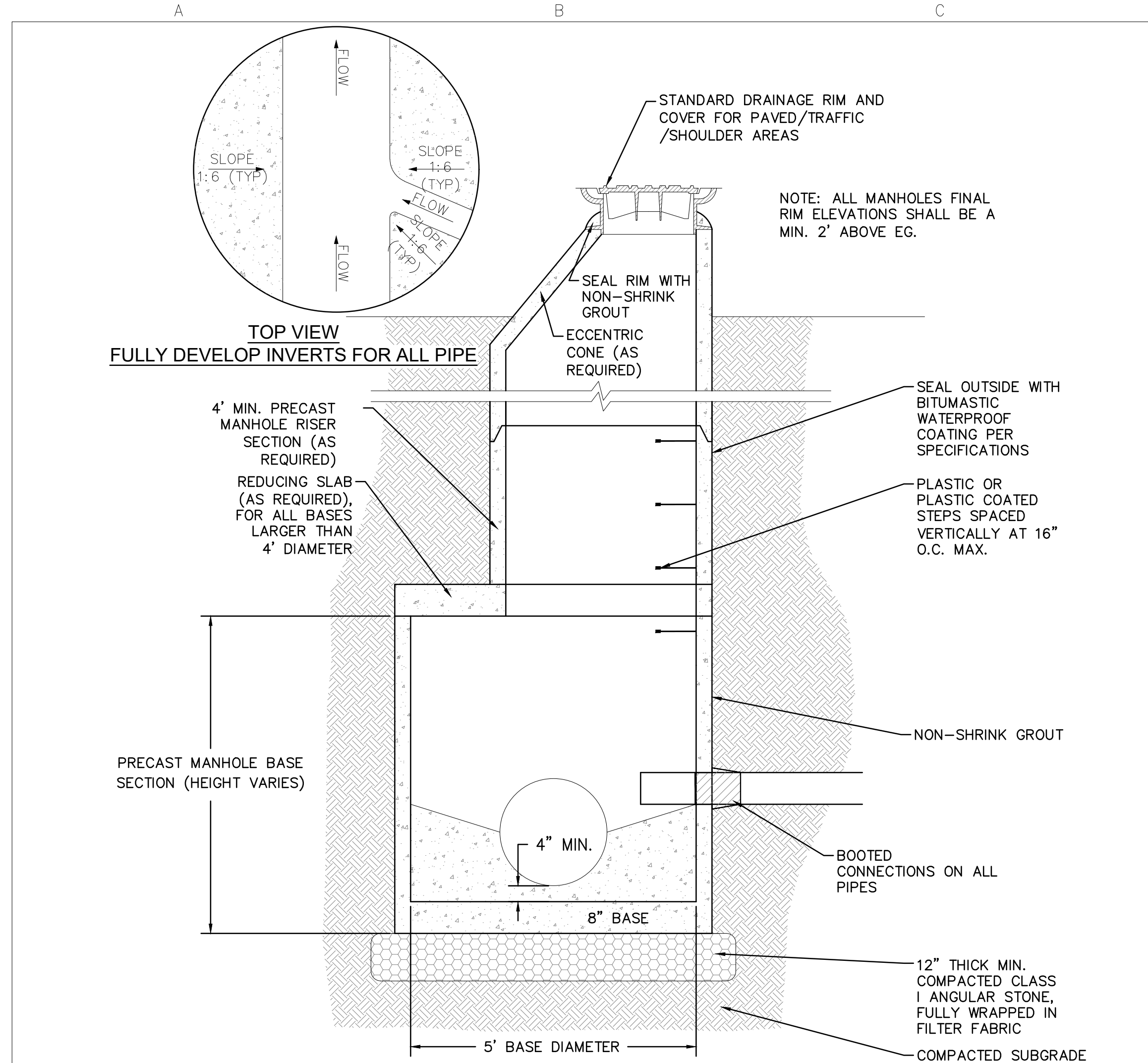


Issue Date:  
 Project No: ARKGAMEF.0003 WR  
 Drawn By: CCC  
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 Sheet Title:

**STANDPIPE  
 TANK  
 DETAILS**

Sheet Number:  
**C700**

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 By: jmacdonald



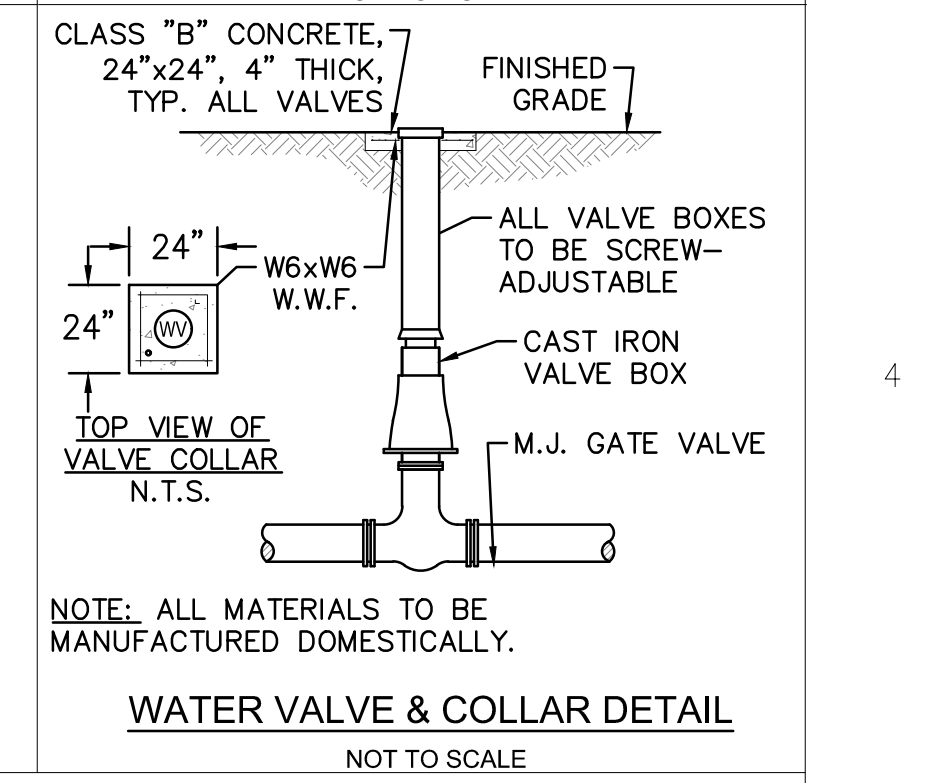
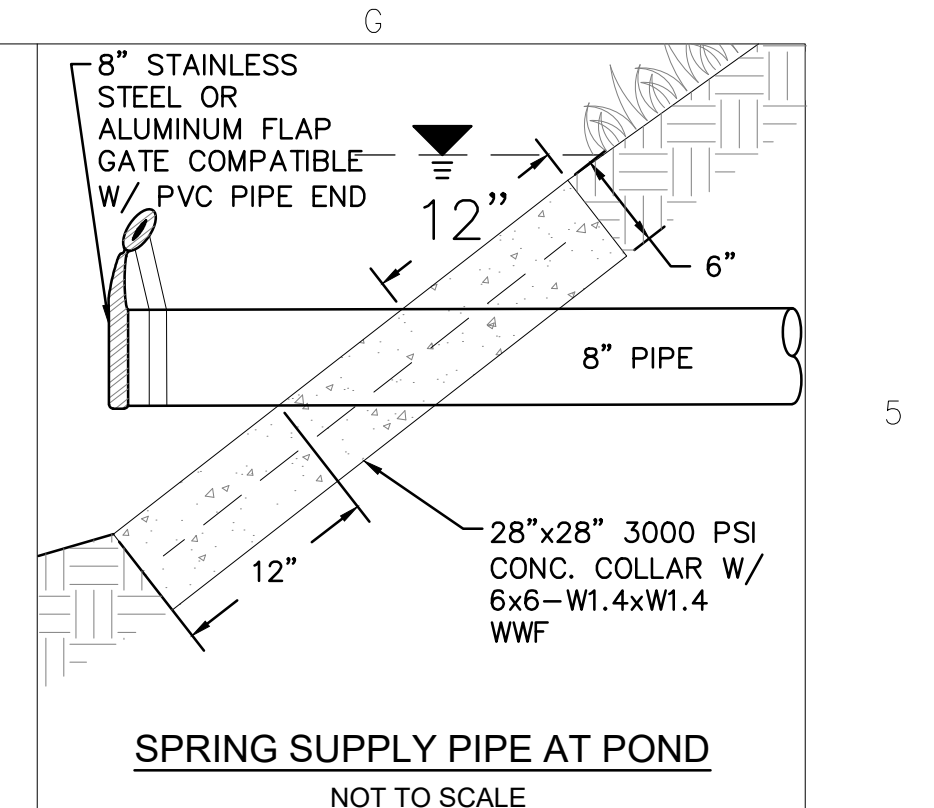
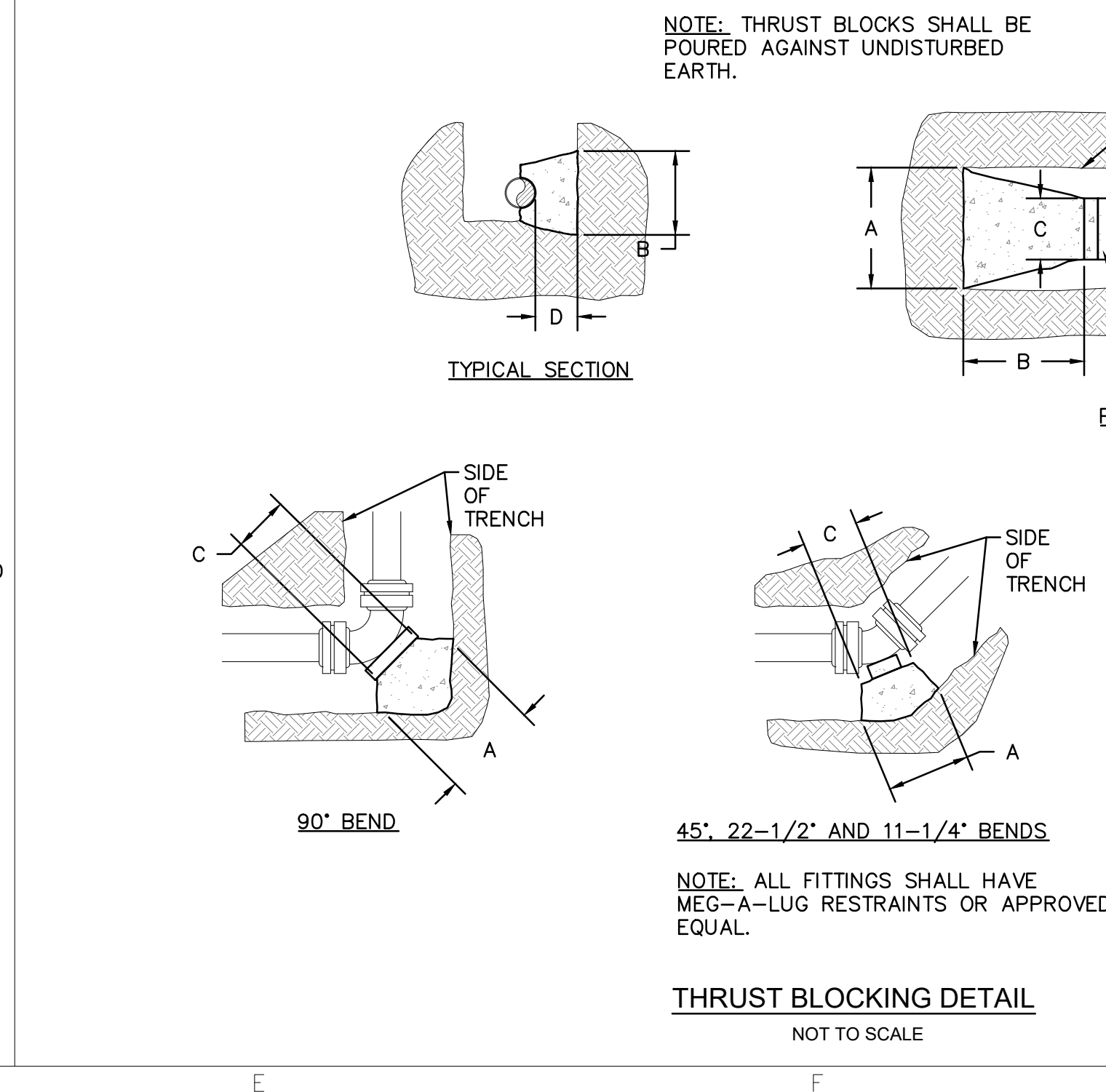
90° BEND							11 1/4° BEND								
SIZE	2"	4"	6"	8"	10"	12"	16"	SIZE	2"	4"	6"	8"	10"	12"	16"
A	16"	16"	26"	33"	40"	50"	70"	A	9"	9"	11"	13"	16"	18"	30"
B	16"	16"	24"	33"	40"	50"	70"	B	9"	9"	11"	13"	16"	18"	30"
C	9"	9"	12"	12"	15"	16"	22"	C	8"	8"	10"	12"	14"	16"	15"
D	8"	8"	12"	16"	20"	25"	24"	D	4"	4"	5"	6"	8"	9"	16"

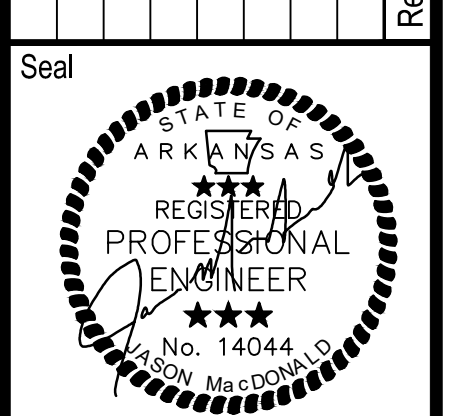
45° BEND							PLUG								
SIZE	2"	4"	6"	8"	10"	12"	16"	SIZE	2"	4"	6"	8"	10"	12"	16"
A	12"	12"	18"	24"	31"	37"	52"	A	26"	26"	26"	34"	43"	52"	70"
B	12"	12"	18"	24"	31"	37"	52"	B	26"	26"	26"	34"	43"	52"	70"
C	8"	8"	10"	12"	14"	16"	14"	C	12"	12"	12"	12"	12"	12"	30"
D	6"	6"	9"	12"	15"	18"	18"	D	11"	11"	11"	15"	22"	32"	32"

22 1/2° BEND							TEE								
SIZE	2"	4"	6"	8"	10"	12"	16"	SIZE	2"-8"	8"-12"	8"-10"	12"	12"	12"	16"
A	9"	9"	13"	18"	23"	26"	40"	A	26"	26"	43"	26"	43"	52"	70"
B	9"	9"	13"	18"	23"	26"	40"	B	26"	26"	43"	26"	43"	52"	70"
C	8"	8"	10"	12"	14"	16"	15"	C	12"	12"	12"	12"	12"	12"	30"
D	4"	4"	6"	9"	11"	13"	16"	D	13"	13"	21"	13"	21"	26"	24"

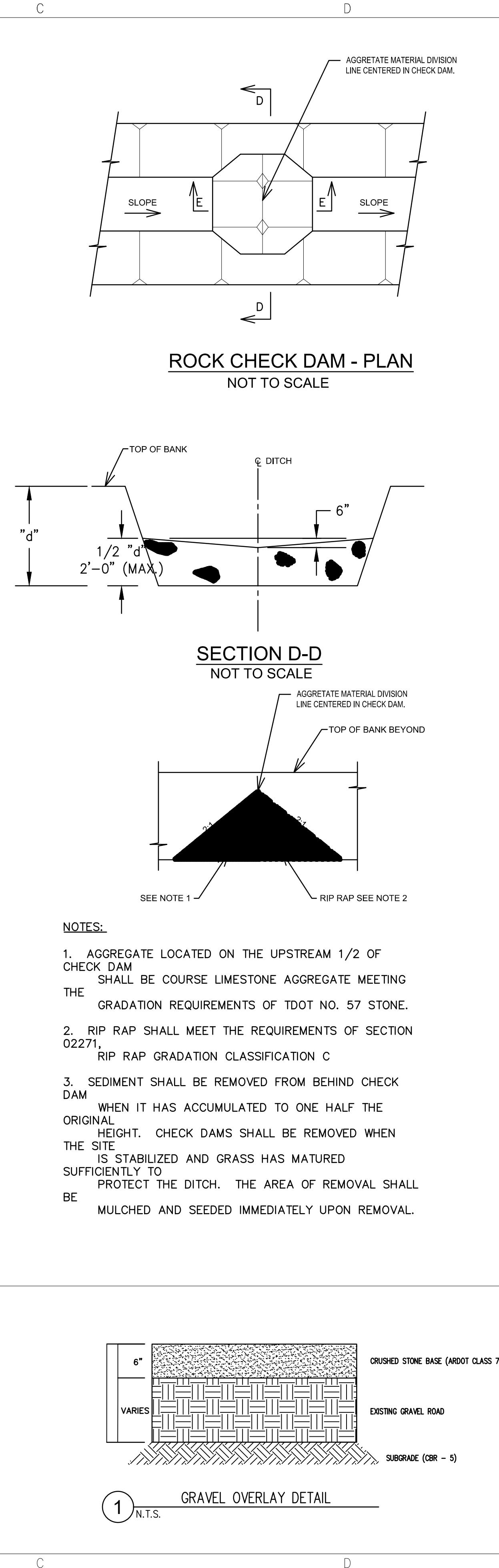
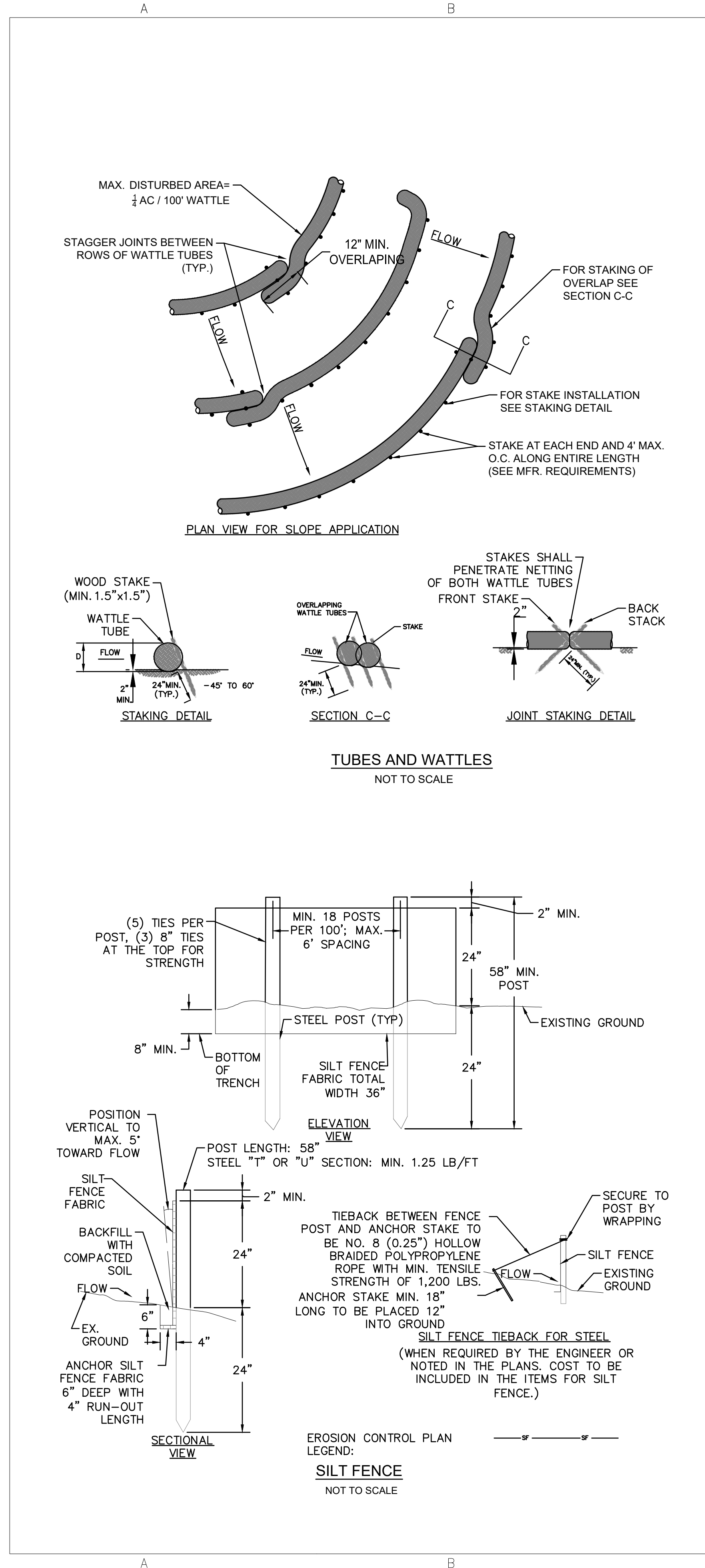


Rev.	Date	Revision Description

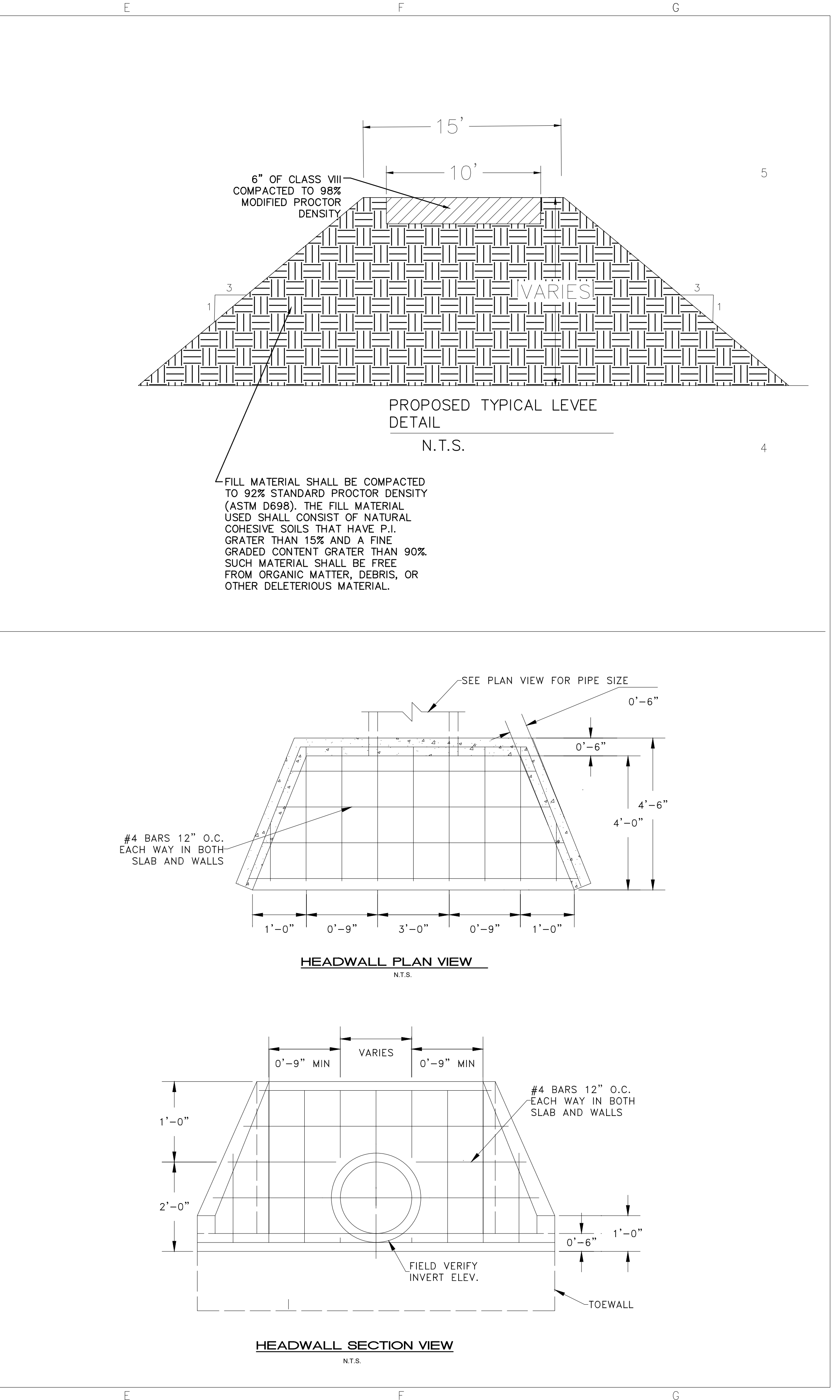


Issue Date: 02/23/2022  
 Project No: ARKGAMEF.0003 WR  
 Drawn By: CCC  
 Checked By: JM  
 Sheet Title:

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 Plotted: Sunday, December 29, 2024  
 By: jmacdonald



- NOTES:**
- AGGREGATE LOCATED ON THE UPSTREAM 1/2 OF CHECK DAM SHALL BE COURSE LIMESTONE AGGREGATE MEETING THE GRADATION REQUIREMENTS OF TDOT NO. 57 STONE.
  - RIP RAP SHALL MEET THE REQUIREMENTS OF SECTION 02271. RIP RAP GRADATION CLASSIFICATION C
  - SEDIMENT SHALL BE REMOVED FROM BEHIND CHECK DAM WHEN IT HAS ACCUMULATED TO ONE HALF THE ORIGINAL HEIGHT. CHECK DAMS SHALL BE REMOVED WHEN THE SITE IS STABILIZED AND GRASS HAS MATURED SUFFICIENTLY TO PROTECT THE DITCH. THE AREA OF REMOVAL SHALL BE MULCHED AND SEEDED IMMEDIATELY UPON REMOVAL.



**FISHER ARNOLD**  
 ENGINEERS | ARCHITECTS | CONSULTANTS | PLANNERS  
 404 CREATHE AVE. | JONESBORO, AR 72401  
 870.932.2019 | Fax: 870.932.1076 | www.fisherarnold.com

**FACILITY UPGRADES AT CHARLIE CRAIG HATCHERY FOR ARKANSAS GAME & FISH**  
 977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719

Rev.	Date	Revision Description

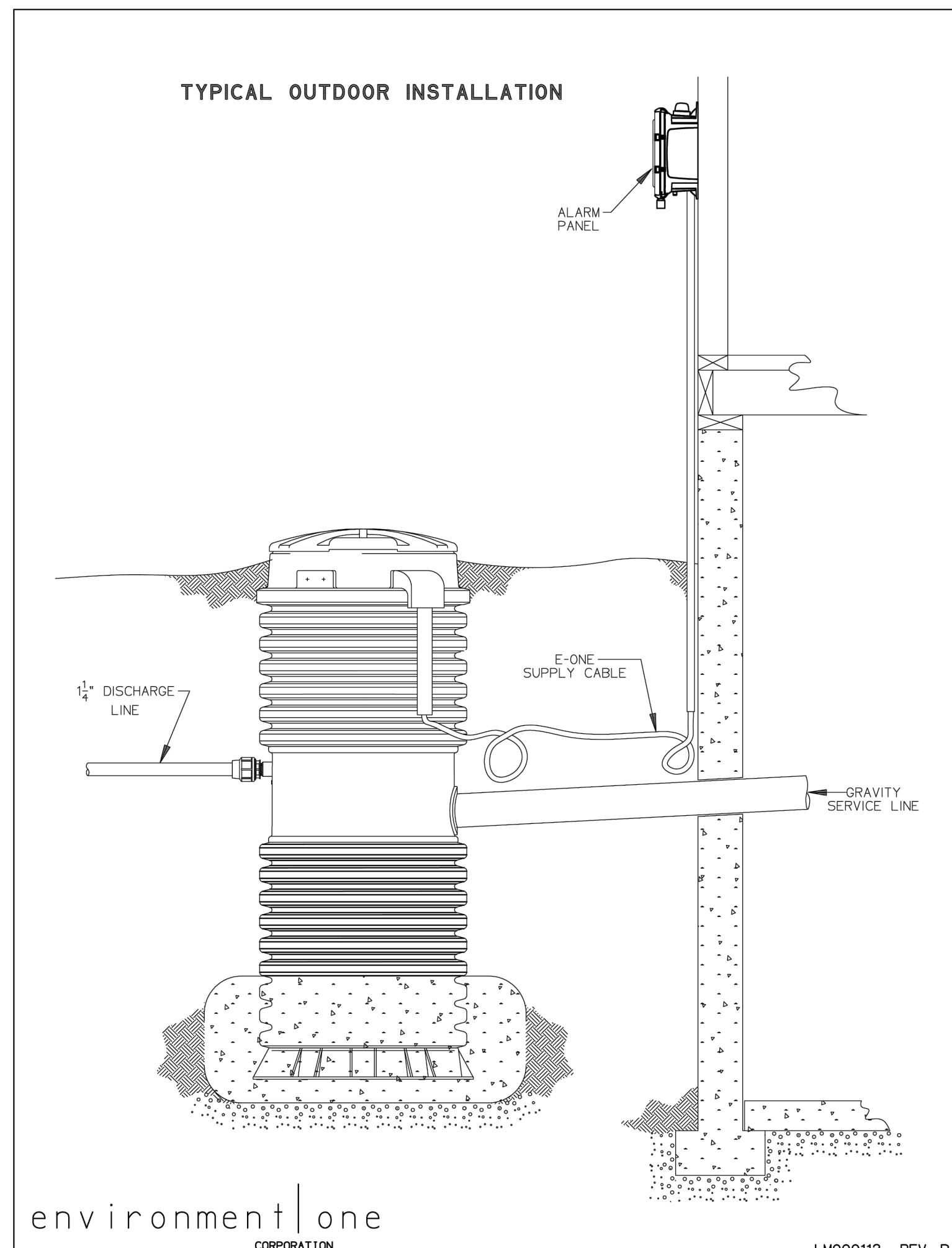
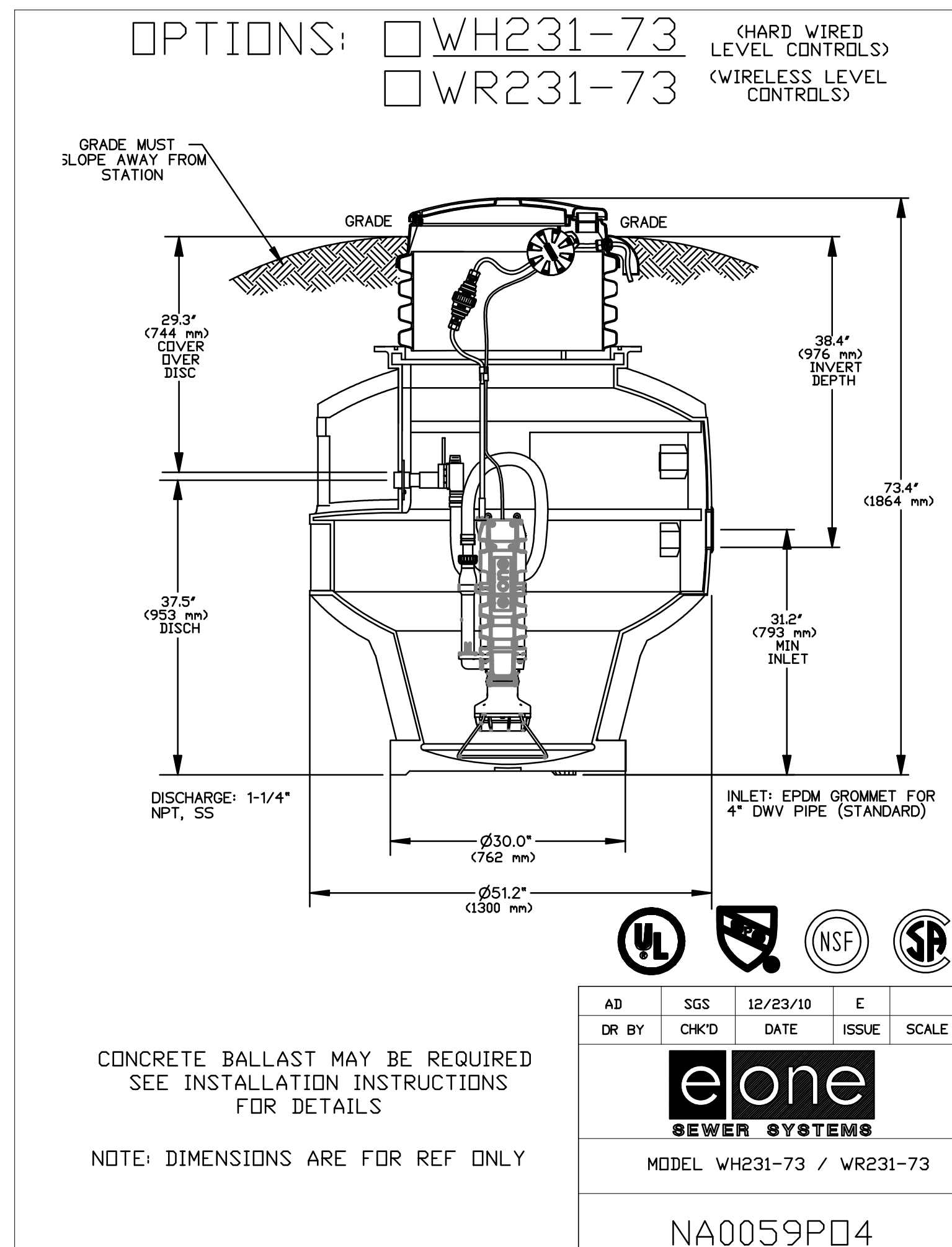
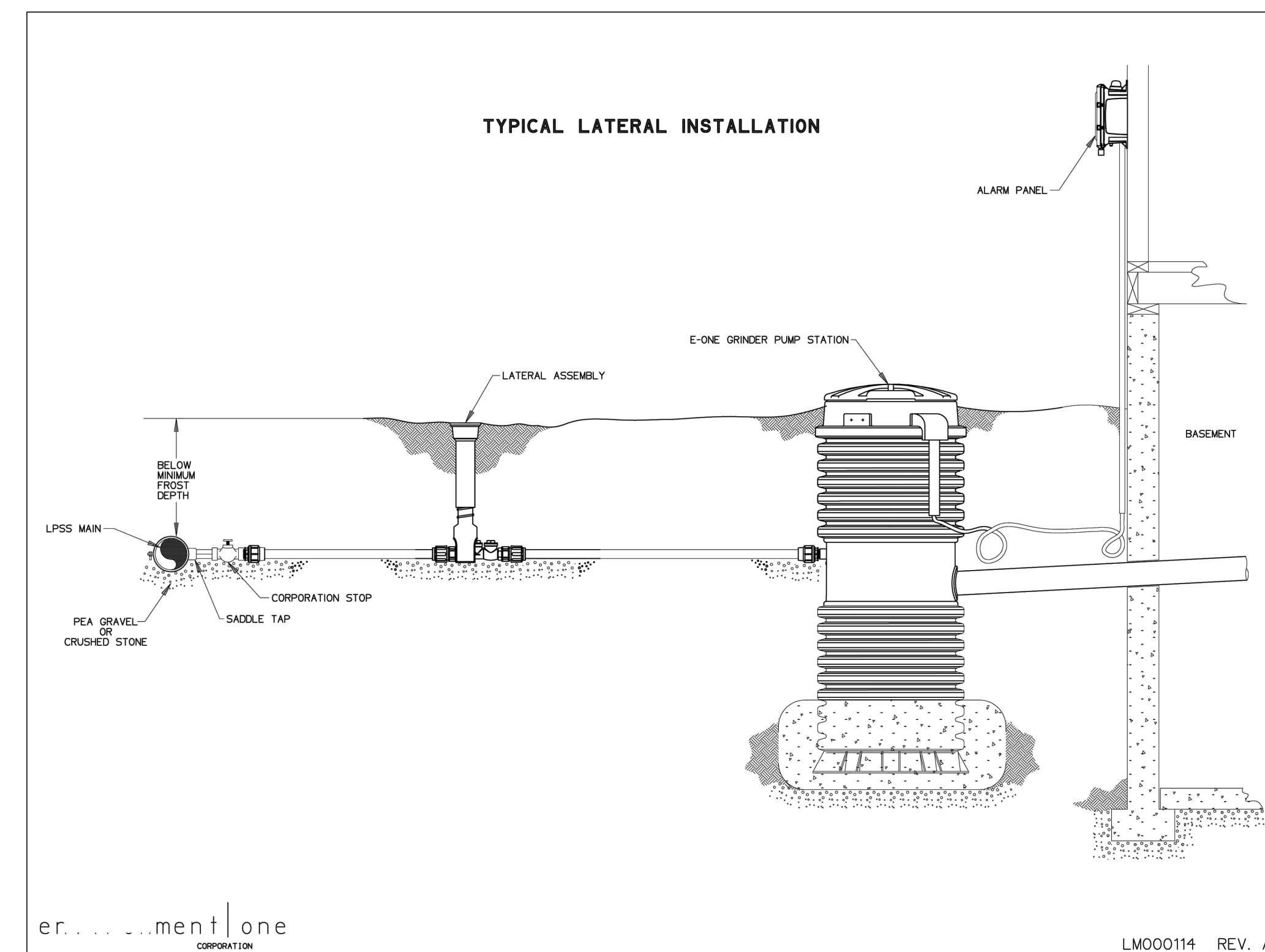
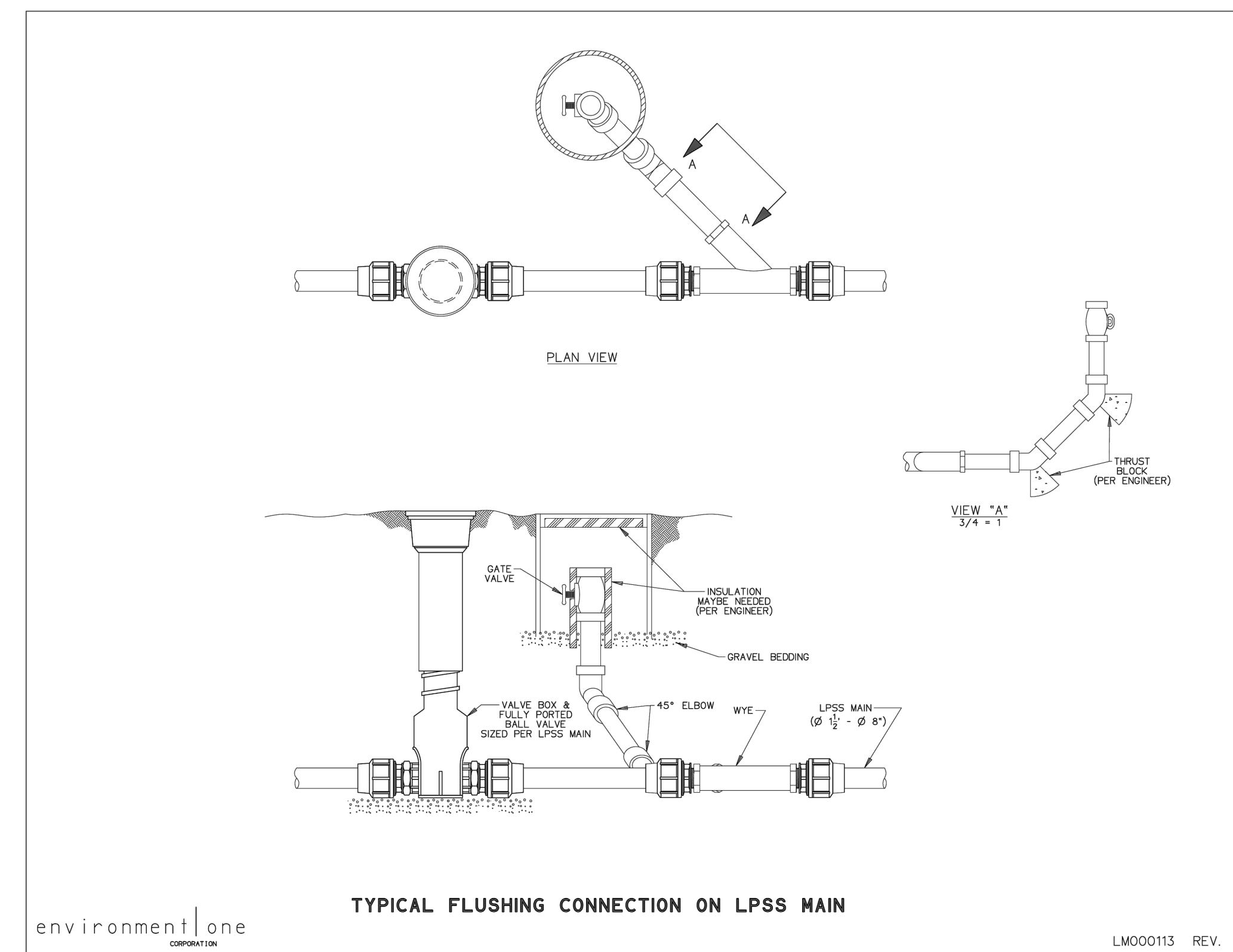
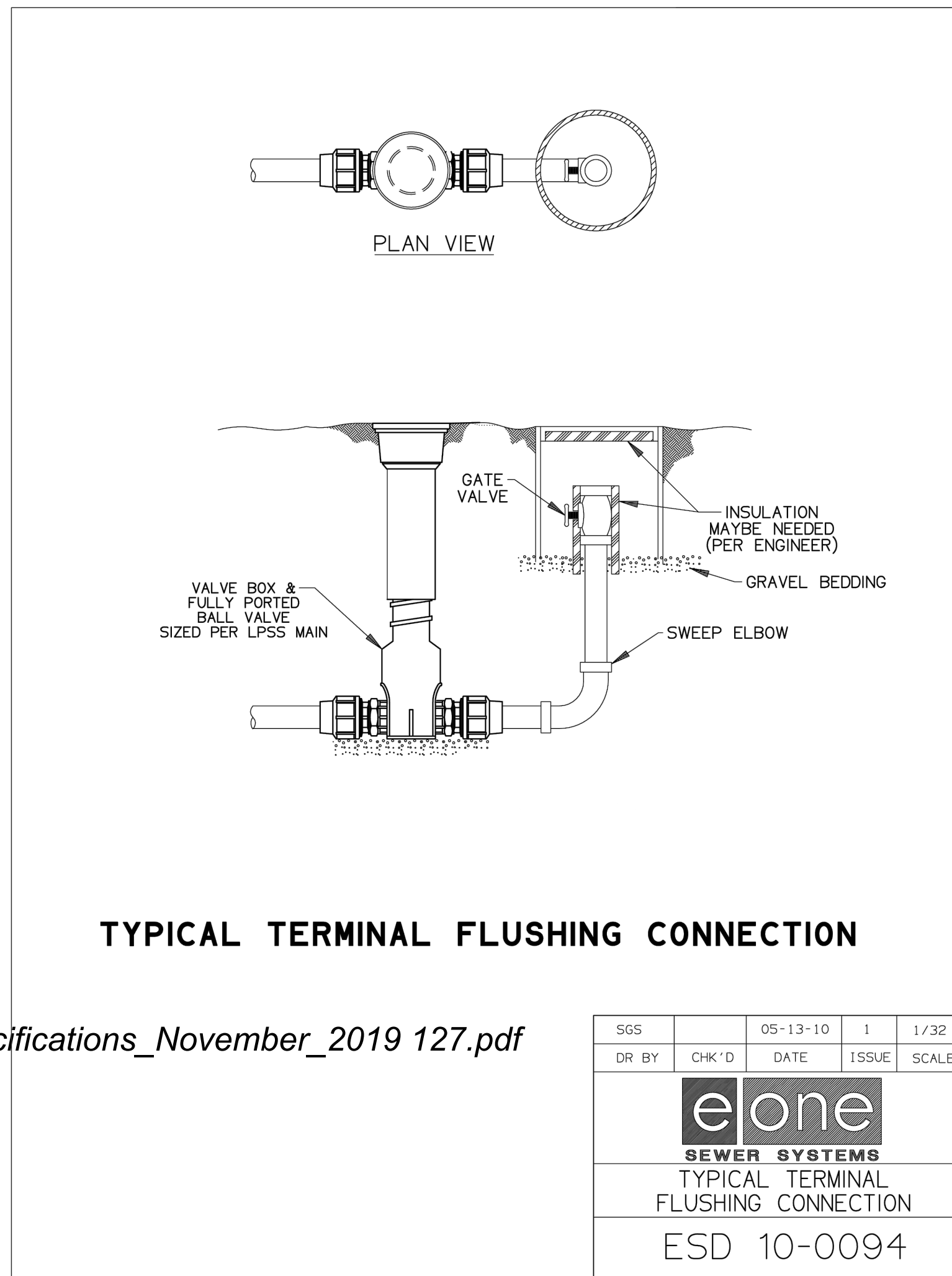
Seal  
 STATE OF ARKANSAS  
 REGISTERED PROFESSIONAL ENGINEER  
 No. 14044  
 Exp. 12/29/2026

Issue Date: 02/23/2022  
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 Drawn By: CCC  
 Checked By: JM  
 Sheet Title: DETAILS

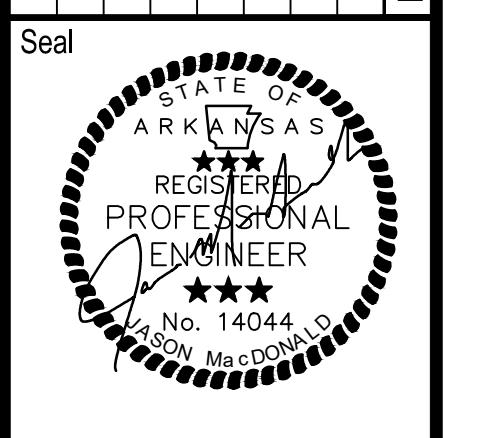
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 Plotted: Sunday, December 29, 2024 - 6:43 pm  
 By: jmacdonald

Missing or invalid reference  
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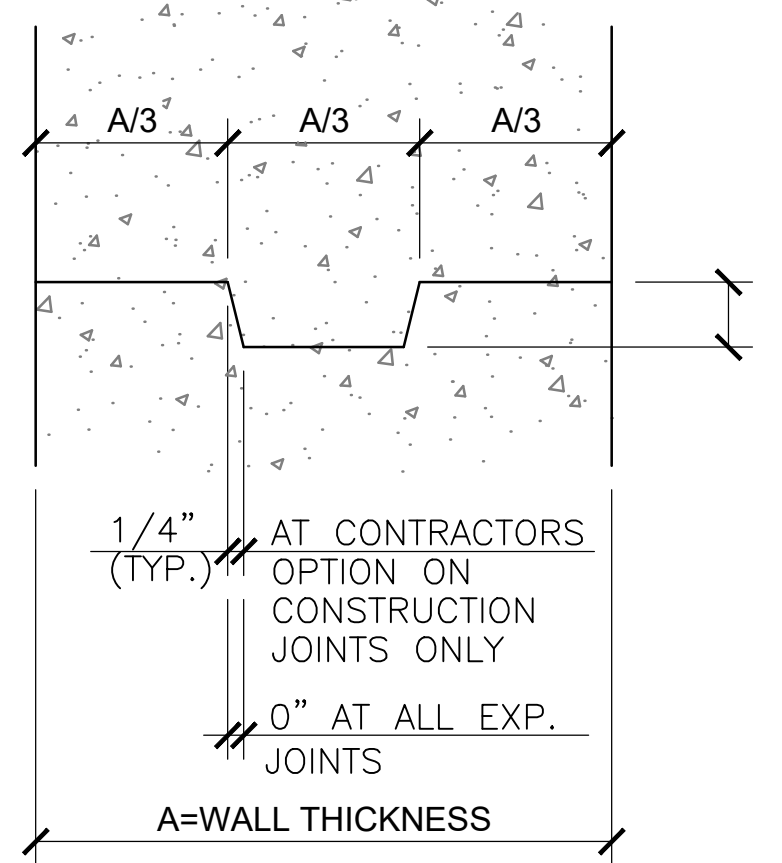


Rev.	Date	Revision Description

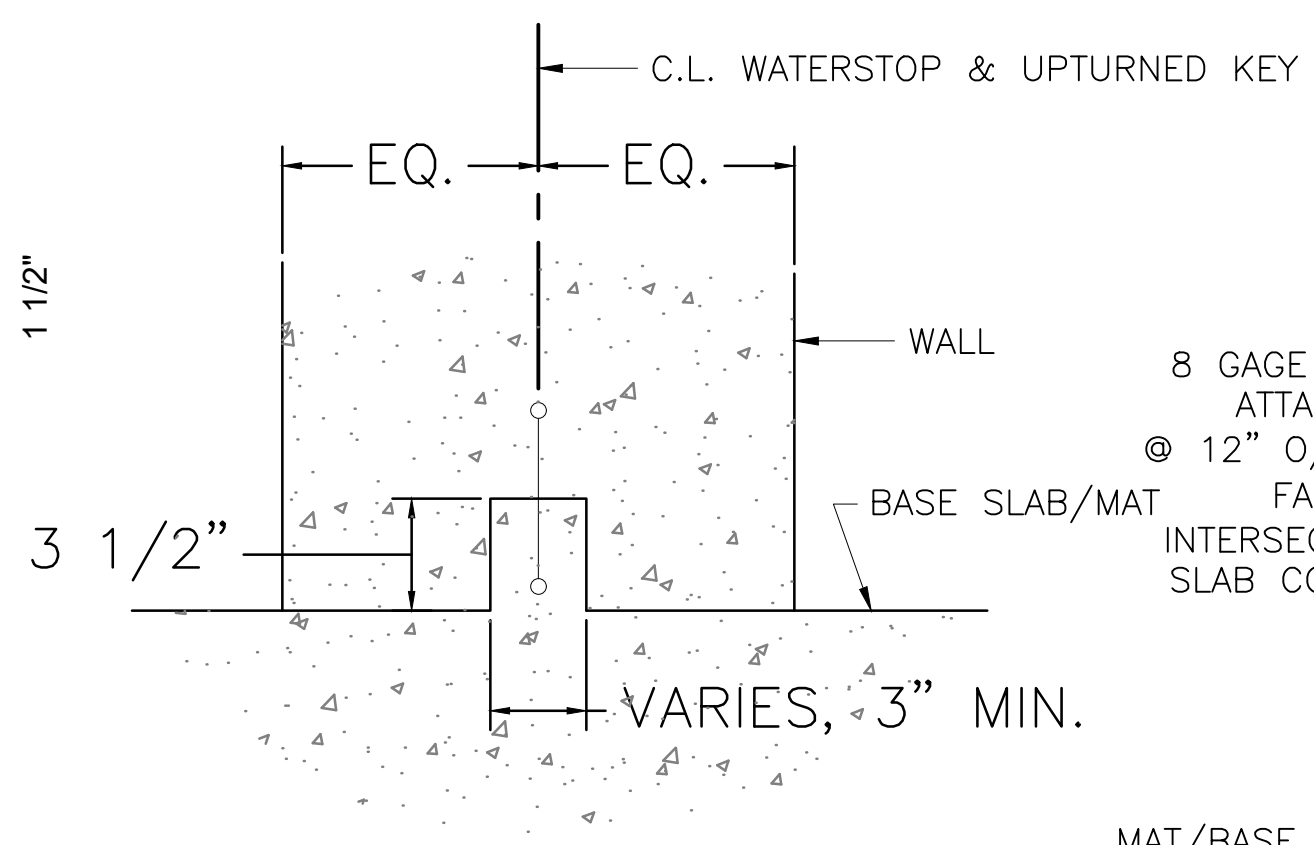


Issue Date: 02/23/2022  
 Project No: ARKGAMEF.0003 WR  
 Drawn By: CCC  
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 Sheet Title:

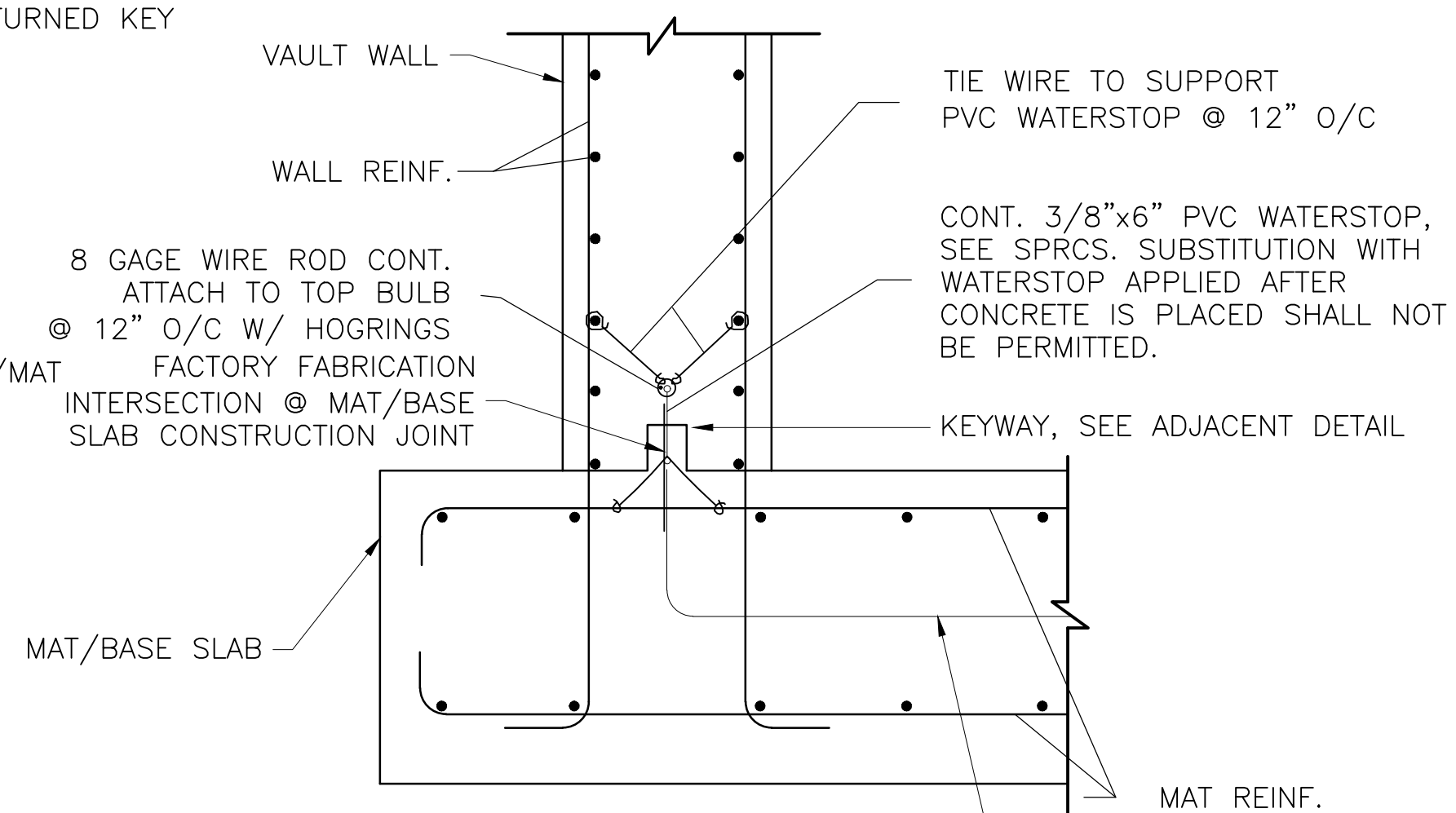
**DETAILS**



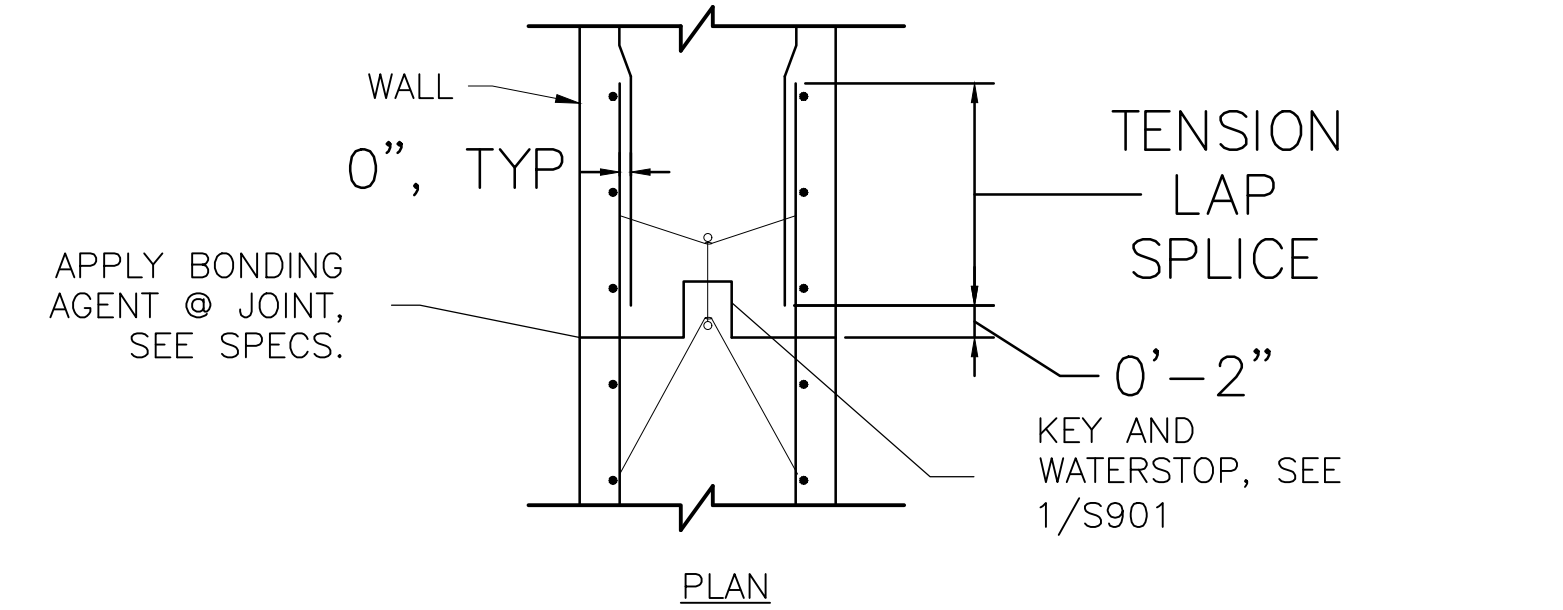
**TYPICAL KEYWAY DETAIL**



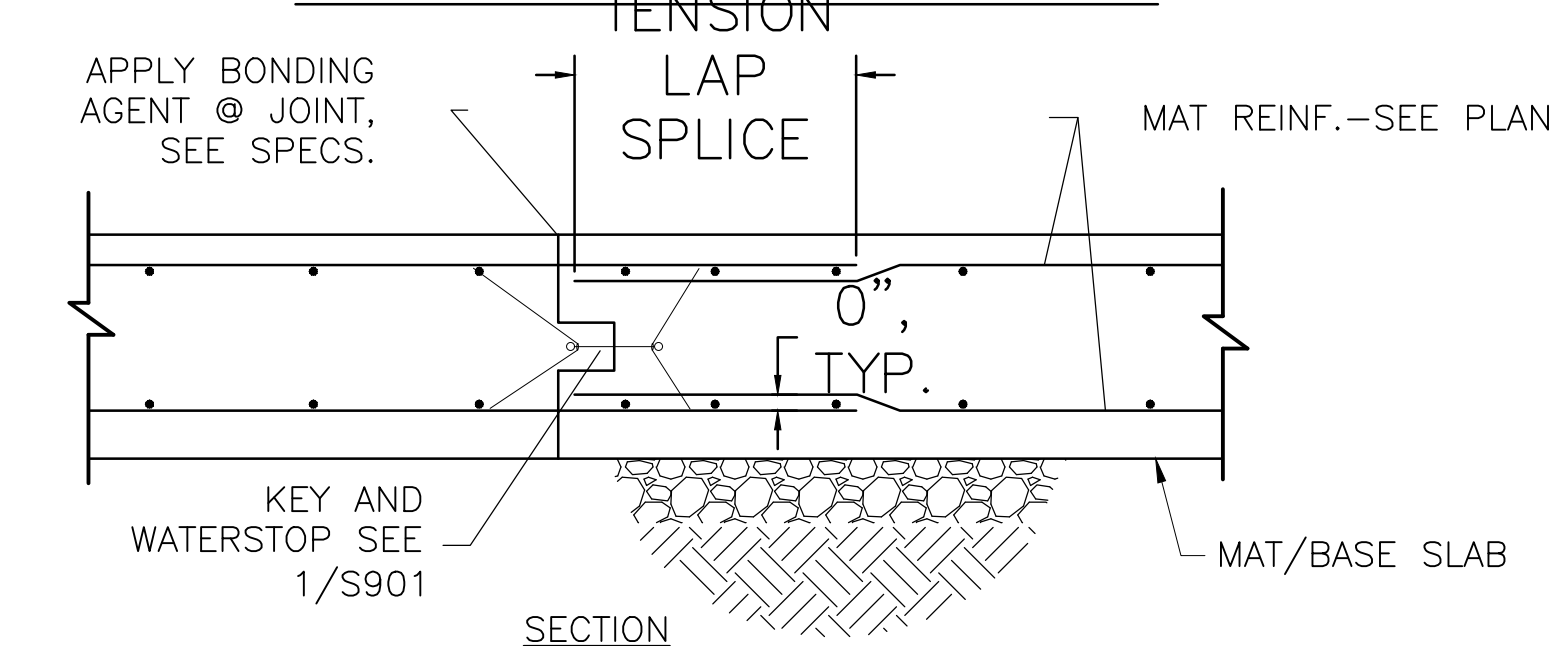
**TYPICAL KEYWAY DETAIL WITH WATERSTOP**



**TYP. ARRANGEMENT OF KEY AND WATERSTOP**



**CONSTRUCTION JOINT IN WALL**



**CONSTRUCTION JOINT IN MAT**

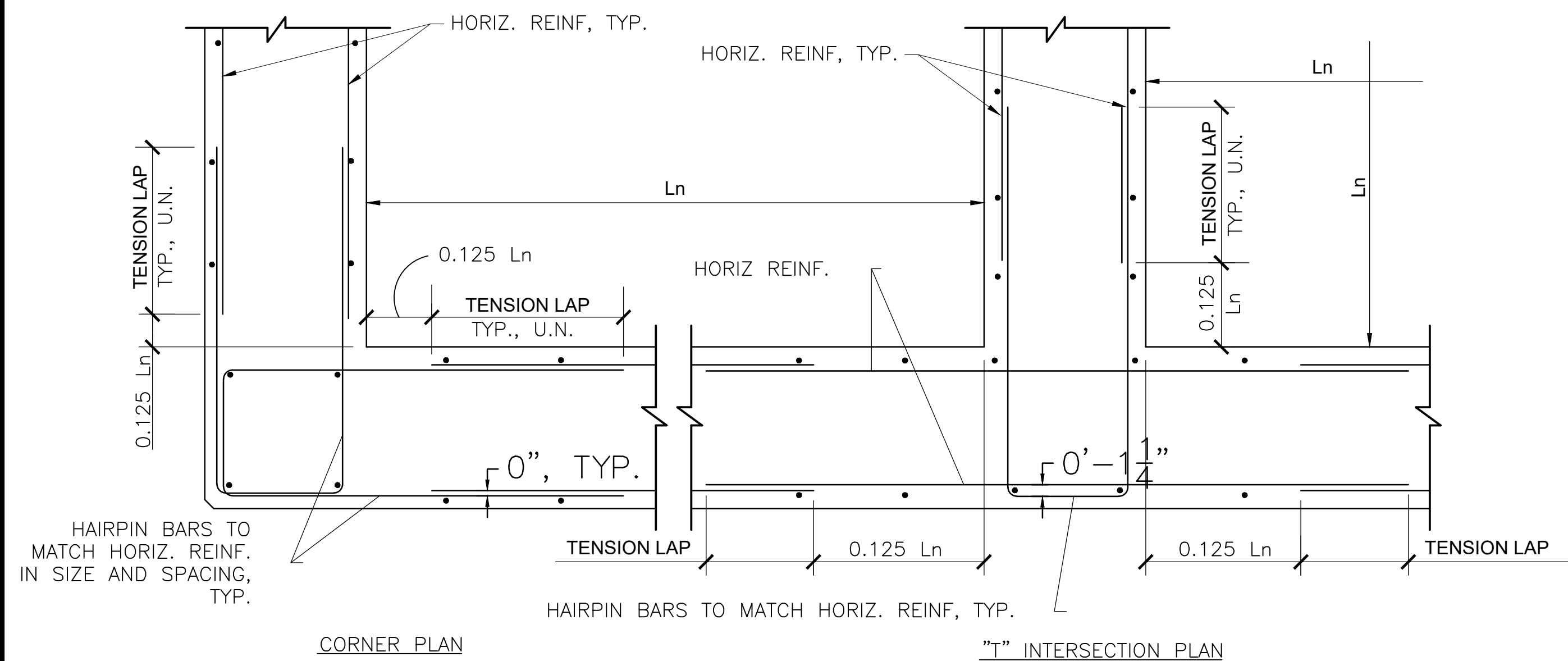
**2 CONSTRUCTION JOINTS**  
N.T.S.

NOTES:  
1. PROVIDE KEY & WATERSTOP @ ALL CONSTRUCTION JOINTS, U.N.

**CONSTRUCTION/POUR JOINT NOTES:**

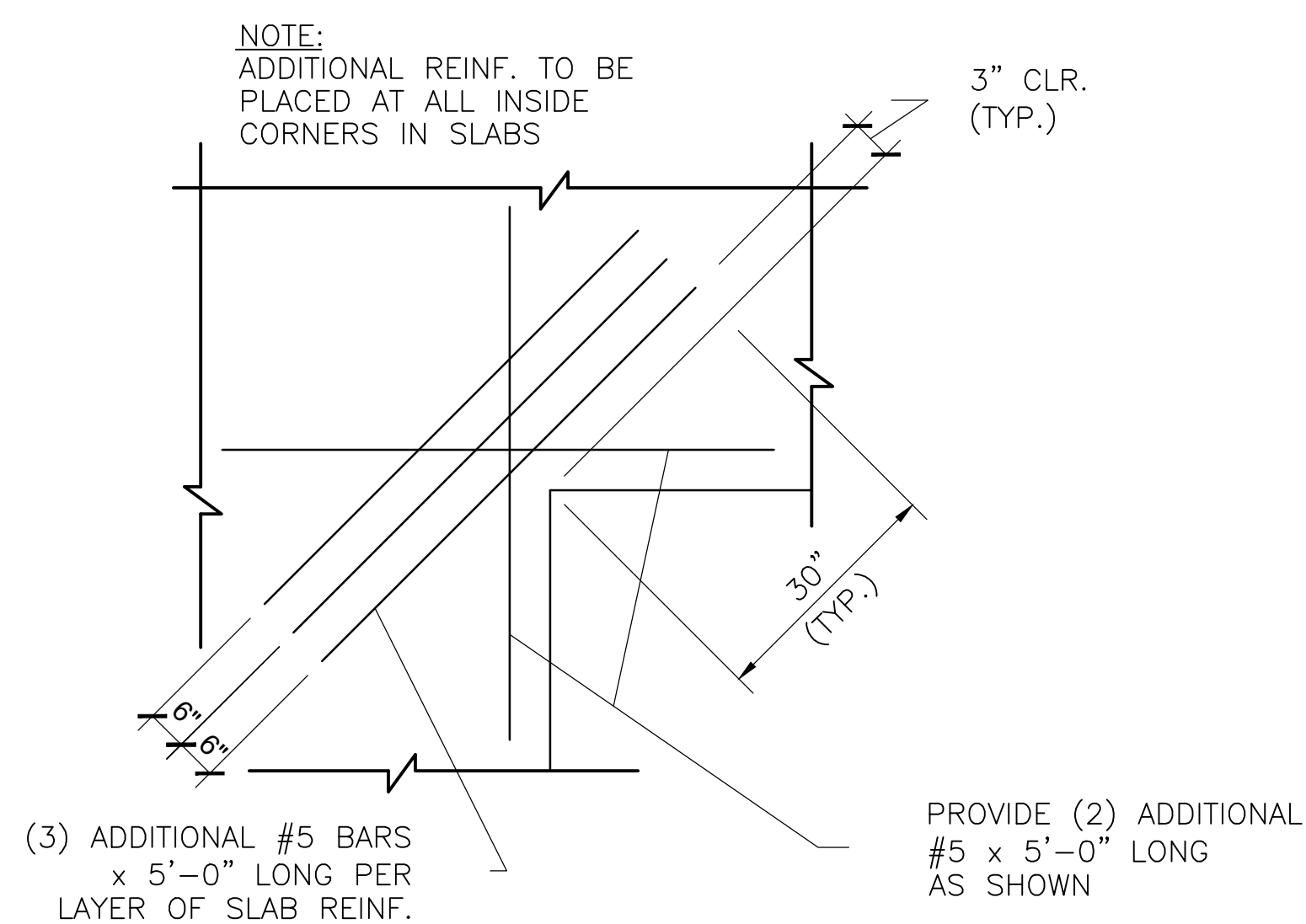
- CONSTRUCTION/POUR JOINTS SHALL BE SPACED AS FOLLOWS:  
BASE SLAB = 40 FEET  
ROOF SLAB = 25 FEET  
VAULT WALLS = 35 FEET
- DO NOT CAST ANY SECTION OF CONCRETE UNTIL THE ADJACENT SECTION HAS CURED FOR AT LEAST 48 HOURS.
- CONTRACTOR SHALL SUBMIT CONSTRUCTION JOINT LAYOUT AND POUR SEQUENCE FOR A/E APPROVAL PRIOR TO CONSTRUCTION. MONOLITHIC POURS LARGER THAN LENGTHS NOTED IN PARAGRAPH ABOVE SHALL NOT BE ALLOWED.
- SEE WALL INTERSECTION REINFORCEMENT DETAIL (3/S901) FOR JOINTS IN THE VICINITY OF CORNERS AND "T" INTERSECTIONS.
- BASE SLAB AND ROOF/FLOOR SLAB, CONSTRUCTION JOINTS SHALL OCCUR WITHIN THE MIDDLE THIRD OF THE SPAN BETWEEN WALLS/BEAMS/COLUMNS. ALL CORNERS AND INTERSECTIONS SHALL BE POURED MONOLITHICALLY.
- CONSTRUCTION JOINTS SHALL BE LOCATED BETWEEN  $L_n/2$  &  $L_n/3$  AWAY FROM THE INSIDE FACE OF WALLS, TYP. UNLESS NOTED.  
 $L_n$ =INSIDE CLEAR DISTANCE BETWEEN WALLS

**1 CONSTRUCTION JOINT DETAIL**  
N.T.S.



**3 WALL INTERSECTION REINF. DETAIL**  
N.T.S.

- NOTES:
- CORNER BARS TO BE THE SAME SIZE AND SPACING AS HORIZONTAL REINFORCEMENT, U.N. ON PLANS/SECTIONS. ALL CORNERS AND INTERSECTIONS SHALL BE POURED MONOLITHICALLY.
  - CONSTRUCTION JOINTS SHALL BE LOCATED BETWEEN  $L_n/2$  AND  $L_n/3$  AWAY FROM THE INSIDE FACE OF WALLS, TYP. UNLESS NOTED.
  - FOR CONTINUOUS WALLS WITH MULTIPLE TRANSVERSE WALLS, ' $L_n$ ' SHALL BE THE LARGER OF TWO ADJACENT SPANS.



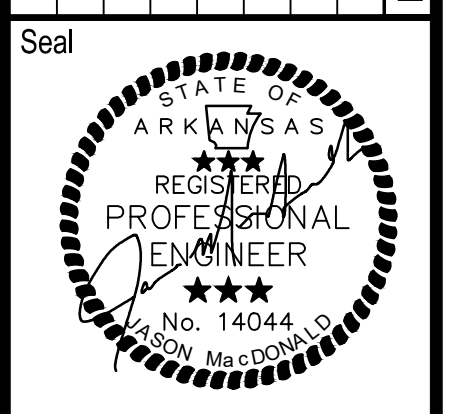
**4 REINF. DETAIL @ SLAB & WALL RE-ENTRANT CORNER**  
N.T.S.

TENSION LAP SPLICE SCHEDULE		
$f_c = 4000$ PSI		
BAR SIZE	TOP BARS (INCH)	OTHER BARS (INCH)
#3	24	19
#4	32	25
#5	40	31
#6	48	37
#7	70	54
#8	80	62
#9	91	70
#10	102	79
#11	113	87

- NOTE:  
1. ALL HORIZONTAL BARS WITH 12" OR MORE CONCRETE BELOW SHALL BE CONSIDERED TOP BARS.

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Rev.	Date	Revision Description



Issue Date:	02/23/2022
Project No:	ARKGAMEF.0003 WR
Drawn By:	CCC
Checked By:	JM
Sheet Title:	



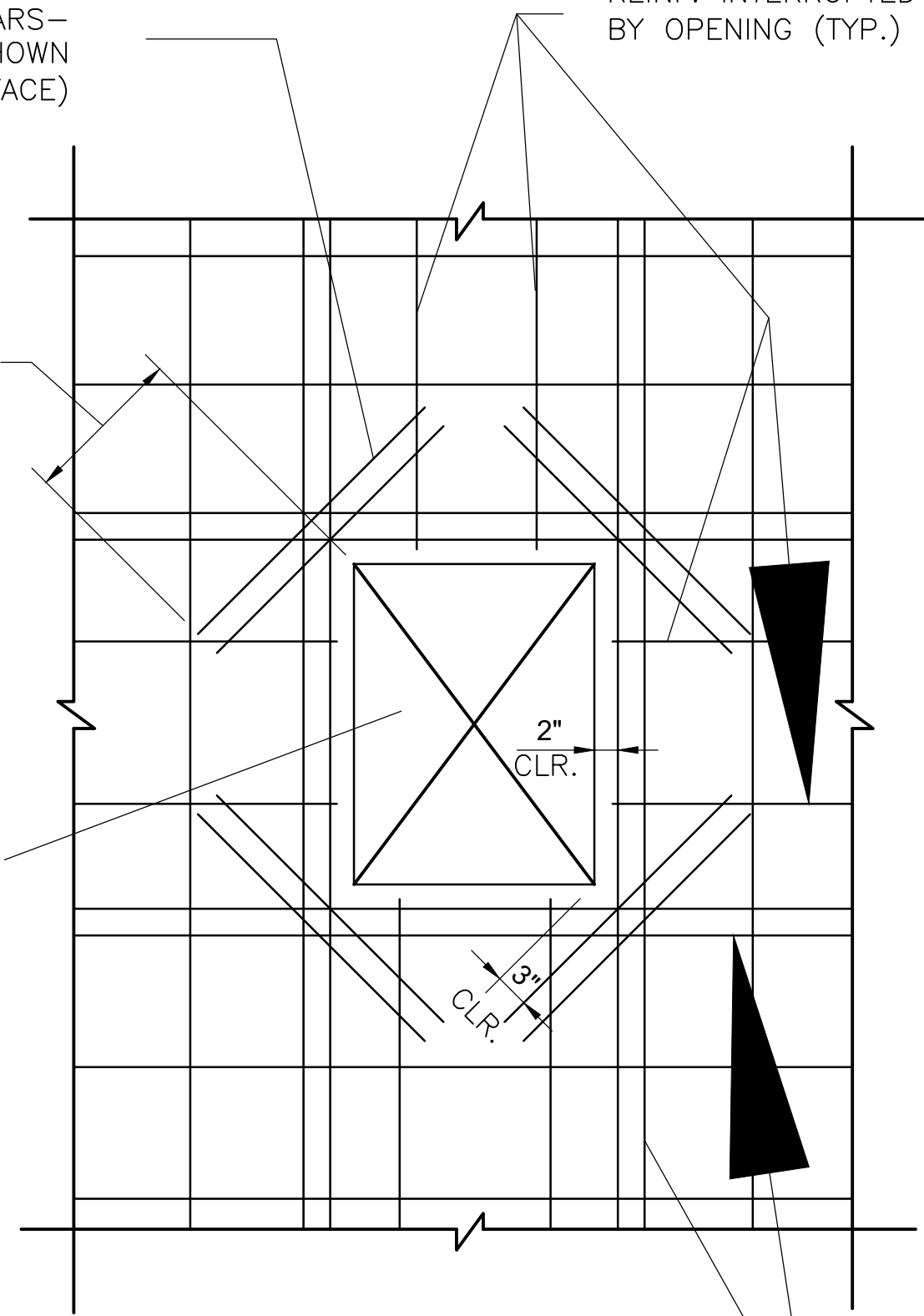
(16) #4 x4'-0" LONG  
 DIAGONAL BARS—  
 PLACE AS SHOWN  
 (TWO EA. FACE)

REINF. INTERRUPTED  
 BY OPENING (TYP.)

(16) #4 DIAGONAL BARS  
 PLACE AS SHOWN.  
 (TWO EACH FACE)

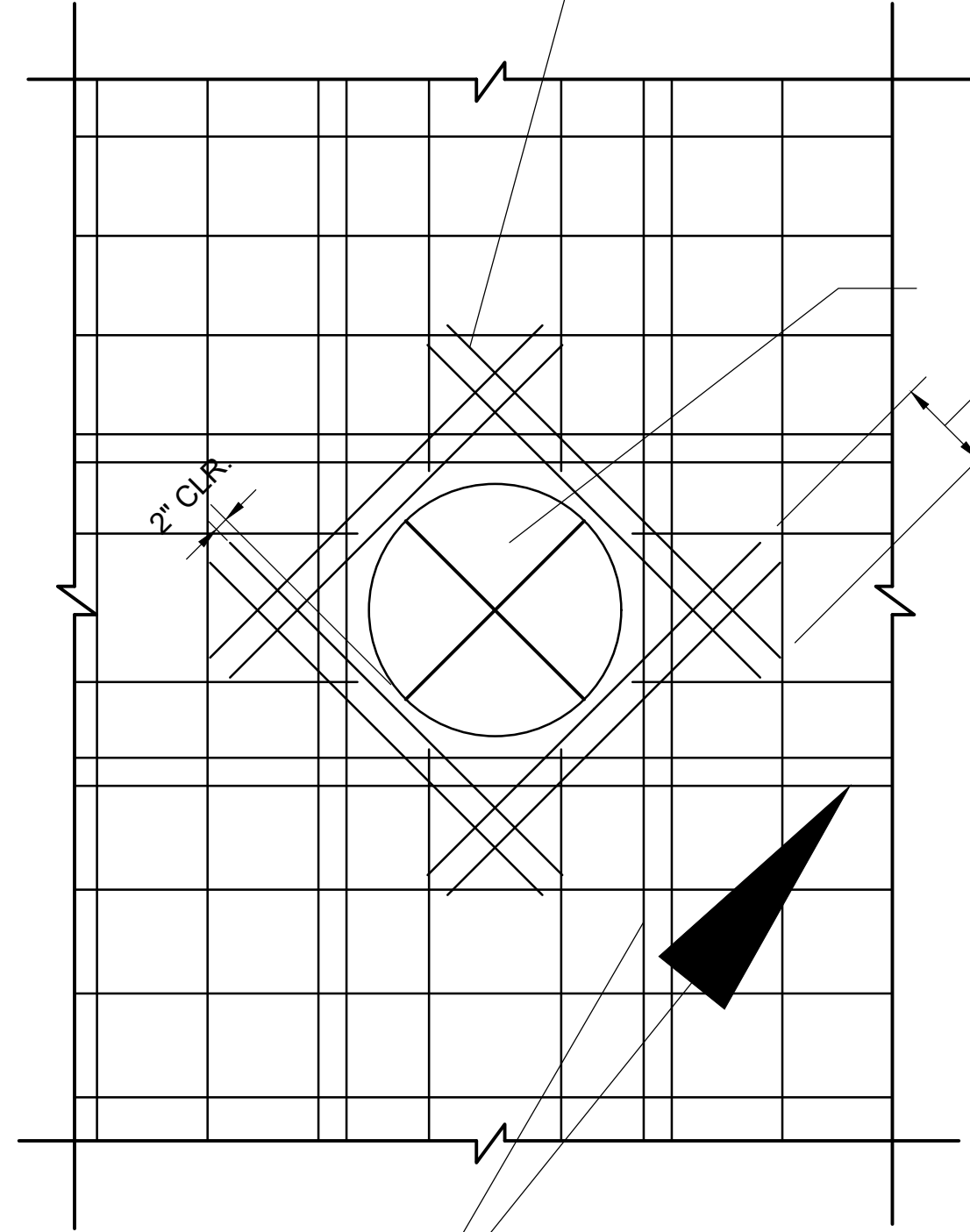
2'-0" TYP.

OPENING



DISCONTINUE REINFORCING AT  
 OPENINGS AND PROVIDE ADDITIONAL  
 BARS WITH AREA EQUAL TO  
 INTERRUPTED REINFORCING  
 PLACE ONE HALF EACH SIDE  
 OF OPENING - 2 BARS MIN.

OPENING  
 1'-0" MIN.  
 (TYP.) SEE NOTE

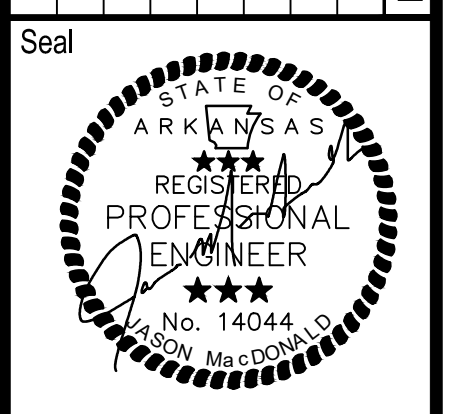


5 ADDITIONAL REINF. AT OPENINGS (WALLS, SLABS & FOUNDATION MAT)  
 N.T.S.

NOTE  
 1. WHERE REQUIRED LAPS ARE NOT  
 POSSIBLE BECAUSE OF ADJACENT HOLES  
 OR CORNERS, PROVIDE STANDARD END  
 HOOK.

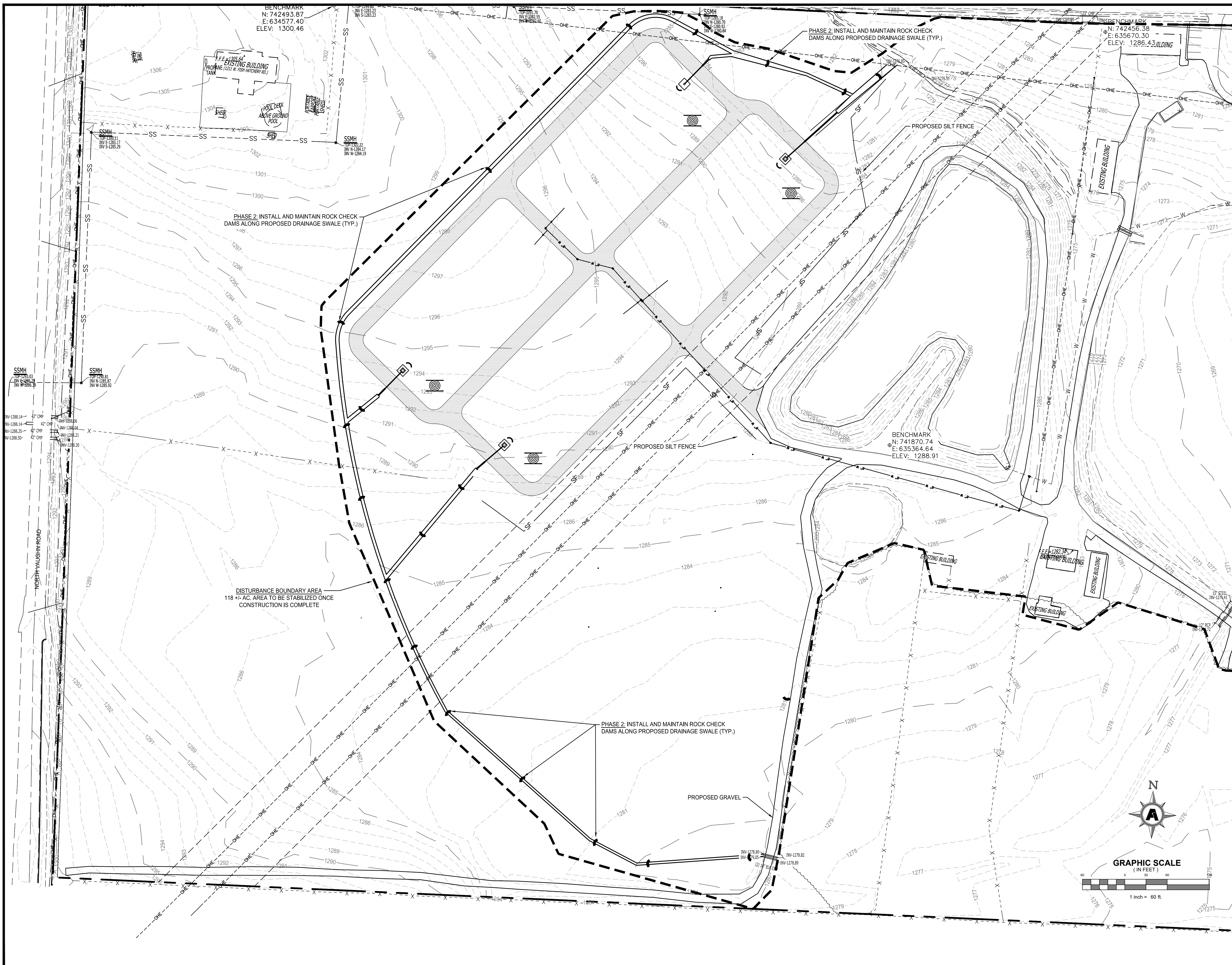
FACILITY UPGRADES AT  
 CHARLIE CRAIG HATCHERY FOR  
 ARKANSAS GAME & FISH  
 977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719

Rev.	Date	Revision Description

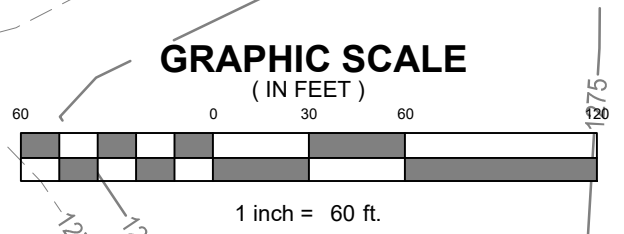
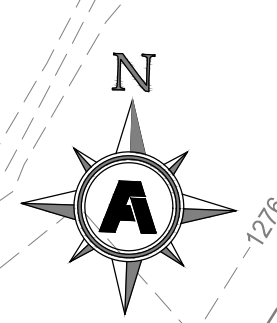


Issue Date: 02/23/2022  
 Project No: ARKGAMEF.0003 WR  
 Drawn By: CCC  
 Checked By: JM  
 Sheet Title:

DETAILS  
 Sheet Number:  
 C804

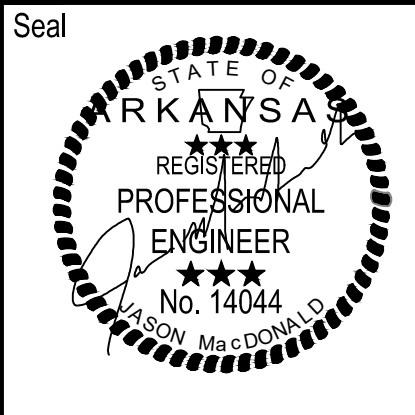


MATCHLINE



**FACILITY UPGRADES AT  
 CHARLIE CRAIG HATCHERY FOR  
 ARKANSAS GAME & FISH**  
 977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719

Rev.	Date	Revision Description

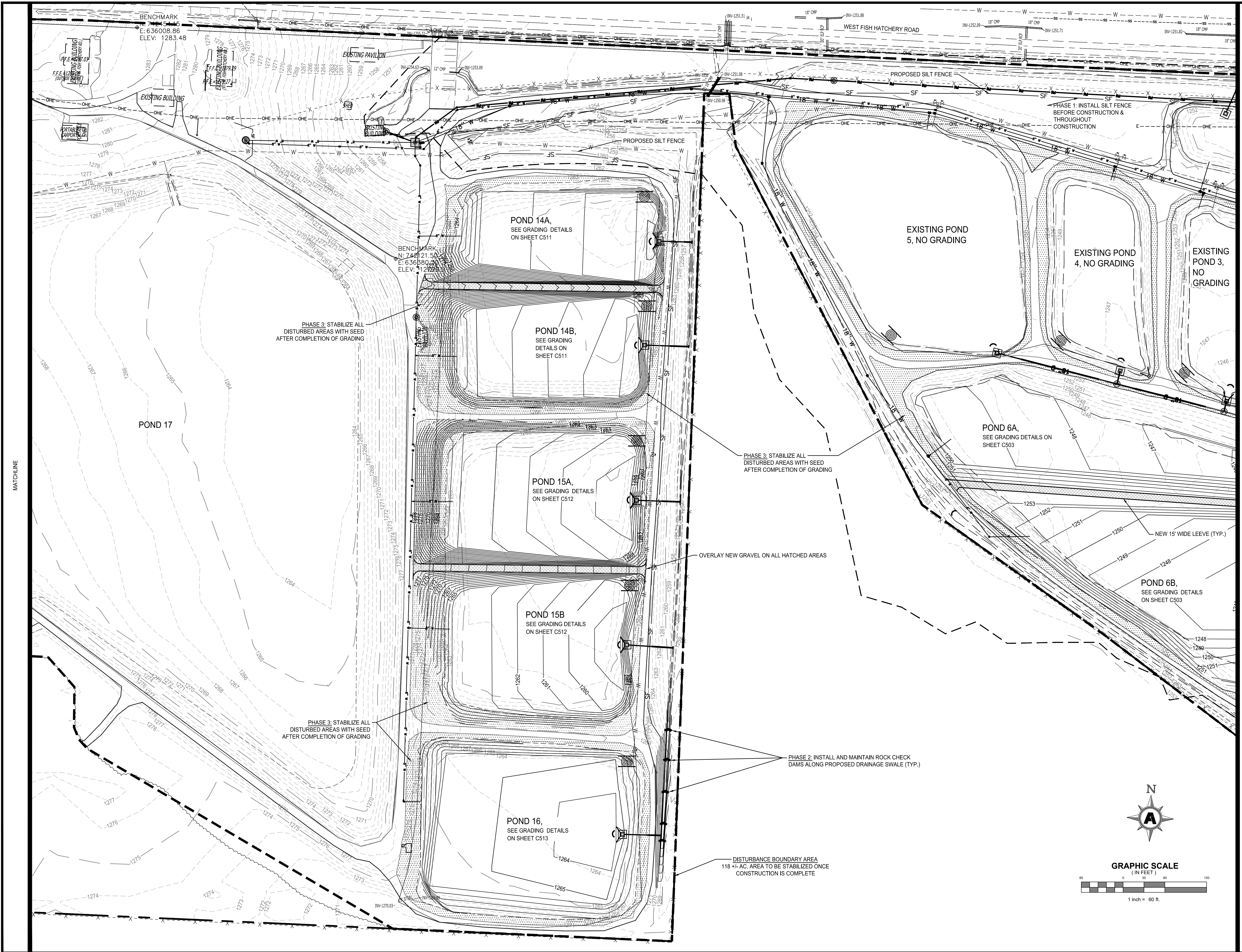


Issue Date: 12/29/24  
 Project No: ARKGAMEF.0003 WR  
 Drawn By: CCC  
 Checked By: JM  
 Sheet Title:

**EROSION  
 CONTROL PLAN  
 (1 OF 3)**

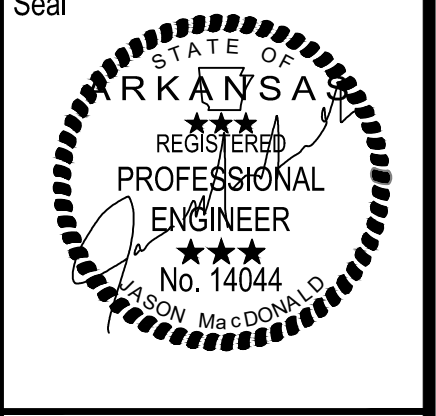
Sheet Number:  
**C900**

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Project No: ARKGAMEF.0003 WR, EROSION CONTROL PLAN (2 OF 3).  
Drawn By: CCC  
Checked By: JM  
Sheet Title:  
Issue Date: 12/30/24  
Project No: ARKGAMEF.0003 WR  
Drawn By: CCC  
Checked By: JM  
Sheet Title:  
Issue Date: 12/30/24  
Project No: ARKGAMEF.0003 WR  
Drawn By: CCC  
Checked By: JM  
Sheet Title:



Seal

Rev.	Date	Revision Description



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 Project Name: ARK003 EROSION CONTROL PLAN (3 OF 3)  
 Plotted: Monday, December 30, 2024 - 9:46 am  
 By: jmcdonald



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**FACILITY UPGRADES AT  
 CHARLIE CRAIG HATCHERY FOR  
 ARKANSAS GAME & FISH**  
 977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719

Rev.	Date	Revision Description

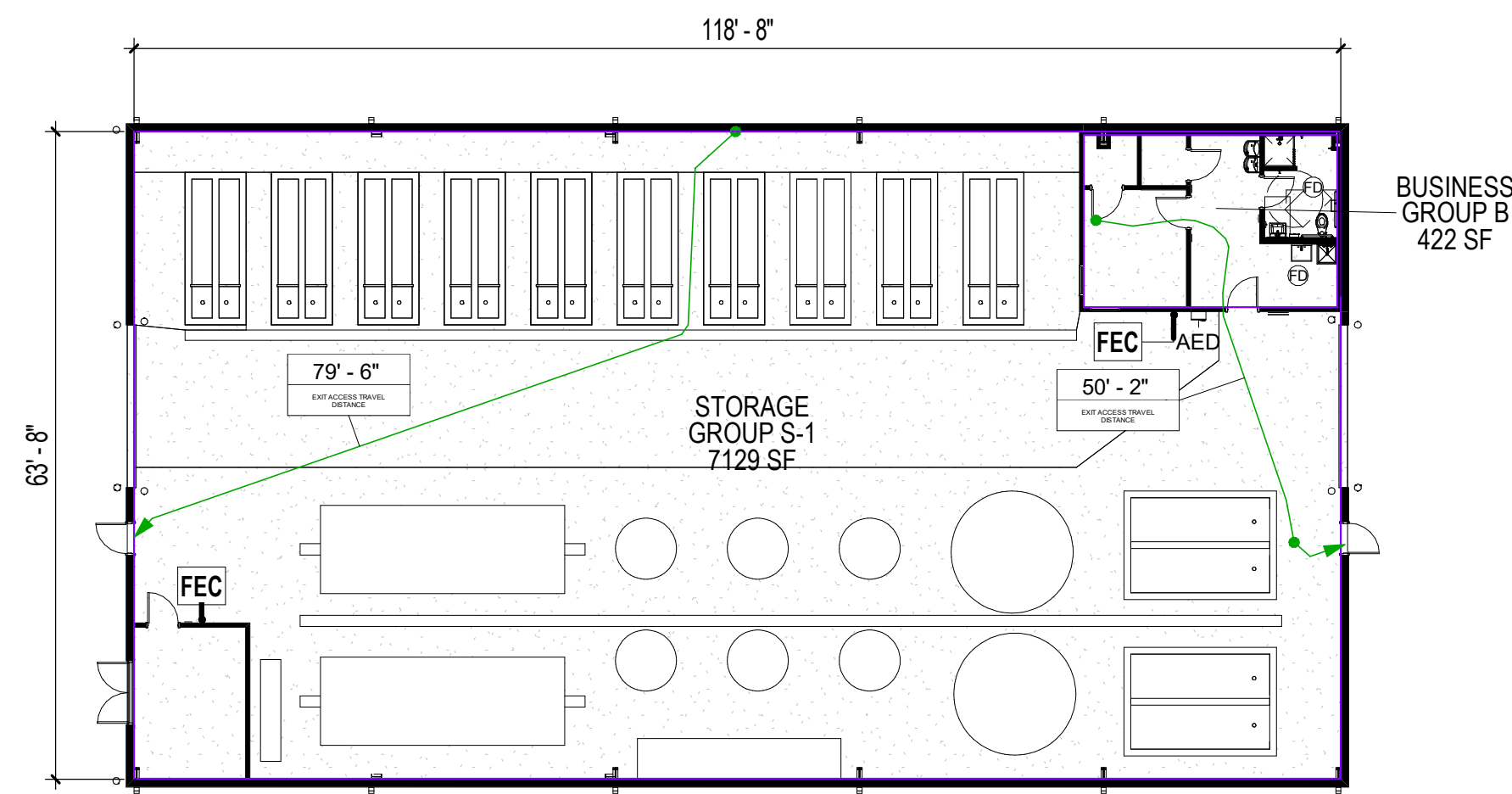


Issue Date: 12/30/24  
 Project No: ARKGAMEF.0003 WR  
 Drawn By: CCC  
 Checked By: JM  
 Sheet Title:

**EROSION CONTROL PLAN  
 (3 OF 3)**

Sheet Number:  
**C902**





**1** AREA PLAN  
1/16" = 1'-0"

**AUTHORITY HAVING JURISDICTION**

CITY OF BENTONVILLE, ARKANSAS

**ADOPTED CODES**

2021 Arkansas Fire Prevention Code Vol. I: Fire (w/ City of Bentonville Amendments)      2018 Arkansas Plumbing Codes  
 2021 Arkansas Fire Prevention Code Vol. II: Building      2018 Arkansas Fuel and Gas Codes  
 2021 Arkansas Mechanical Code      2009 Arkansas Energy Code (2009 IECC w/ supplements & amendments)  
 2020 National Electrical Code

**CODE STUDY**

DESCRIPTION:  
THE PROJECT CONSISTS OF THE NEW CONSTRUCTION OF A FISH HOLDING AND HATCHERY BUILDING FOR THE ARKANSAS GAME AND FISH COMMISSION AND ASSOCIATED SITE IMPROVEMENTS.

**BUILDING USE OR OCCUPANCY**

303.4 STORAGE GROUP S-1

**GENERAL BUILDING HEIGHTS AND AREAS**

		TABULAR	PROPOSED
TABLE 506.2	ALLOWABLE AREA - PER STORY	9,000 SF PER STORY	7,616 SF
TABLE 504.4	ALLOWABLE STORIES	1	1
TABLE 504.3	ALLOWABLE HEIGHT	40'	20'-0"
509	INCIDENTAL USE	BUSINESS GROUP B	422 SF = LESS THAN 10%

**BUILDING CONSTRUCTION**

602 CONSTRUCTION TYPE V-B

**FIRE RESISTANCE RATING REQUIREMENTS (HOURS)**

TABLE	COMPONENT	RATING REQUIRED
TABLE 601	STRUCTURAL FRAME	0
	BEARING WALLS - EXTERIOR	0
	BEARING WALLS - INTERIOR	0
	NONBEARING WALLS & PARTITIONS - INTERIOR	0
TABLE 602	NONBEARING WALLS & PARTITIONS - EXTERIOR	0

**FIRE PROTECTION SYSTEMS (SEE FIRE PROTECTION DRAWINGS AND SPECIFICATIONS)**

903 AUTOMATIC SPRINKLER SYSTEM NOT REQUIRED, AREA NOT > 12,000 SF  
 906 PORTABLE FIRE EXTINGUISHERS PER CODE  
 907 FIRE ALARM AND DETECTION SYSTEMS NOT REQUIRED

**MEANS OF EGRESS (SEE OCCUPANT LOAD SCHEDULE)**

TABLE	OCCUPANT LOAD	AREA	SF PER OCCUPANT	OCCUPANT LOAD
1004	STORAGE INTERIOR (WAREHOUSE)	7,042 GROSS SQUARE FEET	500 SF PER OCCUPANT	15 OCCUPANTS
	BUSINESS	422 GROSS SQUARE FEET	150 SF PER OCCUPANT	3 OCCUPANTS
1005	MEANS OF EGRESS SIZING	32 INCHES MINIMUM		
TABLE 1017.2	DOORS (TWO PROVIDED)	200' MAXIMUM		
	EXIT ACCESS TRAVEL DISTANCE	200' MAXIMUM		

**ACCESSIBILITY**

SHALL BE DESIGNED AND CONSTRUCTED TO BE ACCESSIBLE IN ACCORDANCE WITH IBC AND ANSI ICC A117.1.

**ENERGY EFFICIENCY**

IECC 2009 REQUIRED MINIMUM R-VALUES ROOF = R-13 + R-13 w/ R-5 THERMAL BLOCKS WALLS = R-19

**SCHEDULE OF SPECIAL INSPECTIONS SERVICES - PER CHAPTER 17 OF THE 2021 ARKANSAS FIRE PREVENTION CODE**

Rev.	Date	Revision Description



CONSTRUCTION DOCUMENTS - 100% SET  
 Issue Date: 12/20/2024  
 Project No: ARKGAMEF.0003 WR  
 Drawn By:  
 Checked By:  
 Sheet Title:  
 CODE ANALYSIS

Sheet Number:  
**G-002**

## STRUCTURAL DESIGN CRITERIA

### DESIGN SUMMARY:

THE STRUCTURAL DESIGN OF THE BUILDING CONSISTS OF A NEW PRE-ENGINEERED METAL BUILDING (PEMB) FRAME. SHALLOW FOUNDATIONS ARE PROVIDED BASED ON EXPECTED PEMB REACTIONS AND THIS SHALL BE VERIFIED BEFORE CONSTRUCTION ON THE FOUNDATIONS BEGINS.

DESIGN CODE: 2021 ARKANSAS FIRE PREVENTION CODE (BASED ON THE 2021 INTERNATIONAL BUILDING CODE)

ALSO REFERENCES ASCE 7-16

RISK CATEGORY: II

GRAVITY LOADS

**DEAD LOAD** MATERIAL WEIGHT

**LIVE LOADS**  
TYPICAL ROOF LIVE LOAD 20 PSF

SNOW LOADS  
GROUND SNOW LOAD Pg = 15 PSF  
SNOW DRIFT SHALL BE CONSIDERED FOR THE NEW STRUCTURE PER ASCE 7-16.

LATERAL LOADS

**WIND:**

ULTIMATE WIND SPEED Vult = 107 MPH  
NOMINAL WIND SPEED Vasd = 83 MPH  
IMPORTANCE FACTOR Iw = 1.0  
EXPOSURE CATEGORY C

**SEISMIC:**

SOIL SITE CLASS (PER GEOTECH) D  
IMPORTANCE FACTOR Ie = 1.0  
MAPPED SPECTRAL RESPONSE Ss = 0.149  
ACCELERATION PARAMETERS S1 = 0.088  
MCE/R SPECTRAL RESPONSE Sms = 0.238  
ACCELERATION PARAMETERS Sm1 = 0.210  
DESIGN SPECTRAL RESPONSE Sds = 0.159  
ACCELERATION PARAMETERS Sd1 = 0.140  
**SEISMIC DESIGN CATEGORY C**

## STRUCTURAL GENERAL NOTES

### A. SPECIAL INSPECTIONS:

- ALL SPECIAL INSPECTIONS AND TESTS REQUIRED IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE SHALL BE PERFORMED BY A QUALIFIED INSPECTOR AND REPORTS SHALL BE FURNISHED.

### B. MISCELLANEOUS:

- CONTRACTOR SHALL COMPLY WITH ALL OSHA SAFETY STANDARDS DURING CONSTRUCTION.
- CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. ALL UNDERGROUND UTILITIES MAY NOT BE SHOWN ON THE DRAWINGS.
- CONTRACTOR SHALL COORDINATE WORK FROM ALL DISCIPLINES AS REQUIRED.
- ANY CONFLICTS OR CONTRADICTIONS BETWEEN DIFFERENT DETAILS WITHIN THE DRAWINGS OR SPECIFICATIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE FOR CLARIFICATION/RESOLUTION.

### C. EARTHWORK:

- FOUNDATIONS ARE DESIGNED BASED ON AN ALLOWABLE BEARING CAPACITY OF 2000 PSF IS PROVIDED BY A REPORT BY GEOTECHNOLOGY DATED FOR 8-24-2023 AND THE PROJECT NO. IS J043428.01.
- UNDERCUT A MINIMUM OF 1'-0" BELOW FOOTING BEARING ELEVATION, PROVIDE ACCEPTABLE FILL AND COMPACT IN 8" MAX LIFTS TO AT LEAST 95% OF STANDARD PROCTOR COMPACTION. COMPLETE ADDITIONAL UNDERCUTTING AS REQUIRED BY GEOTECHNICAL ENGINEER.
- FILL PLACEMENT FOR THE FOOTINGS AND SLAB SHOULD CONSIST OF A NON-EXPANSIVE MATERIAL THAT IS GRANULAR AND COMPACTABLE AND THIS SHALL BE APPROVED BY A LICENSED GEOTECHNICAL ENGINEER BEFORE CONSTRUCTION BEGINS. THE COMPACTION AND MOISTURE CONTENT OF ALL FILL MATERIALS SHOULD BE VERIFIED THROUGH FIELD DENSITY TESTS.

### D. CONCRETE AND REINFORCING:

- ALL CONCRETE AND REINFORCEMENT SHALL CONFORM TO THE LATEST ACI CODE.
- ALL REINFORCING BARS SHALL BE A-615 GRADE 60 STEEL.
- LAP ALL REINFORCING BARS 48 BAR DIAMETERS MIN.
- ALL CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH AT 28 DAYS (fc) OF 3500 PSI.
- MAXIMUM AGGREGATE SIZE IN FOOTINGS SHALL BE 1 1/2", MAXIMUM AND AGGREGATE SIZE IN SLABS SHALL BE 1".
- CONCRETE EXPOSED TO WEATHER SHALL HAVE 5.5% AIR ENTRAINMENT.
- PROVIDE CORNER BARS AT INTERSECTIONS OF ALL CONCRETE MEMBERS. MATCH SIZE AND SPACING OF REBAR IN FOOTING.
- SLAB EDGE TOLERANCE SHALL BE ±1/2" U.N.O.
- PLACE AND CURE CONCRETE IN ACCORDANCE TO ACI 305R AND 306R FOR HIGH AND LOW AIR TEMPERATURES AT PLACEMENT, RESPECTIVELY.
- THE CONCRETE FOUNDATION HAS BEEN DESIGNED IN ACCORDANCE WITH ACT 1100, 1991 OF THE STATE OF ARKANSAS.
- WELDED WIRE AND REBAR IN SLAB SHALL BE SUPPORTED ON CONCRETE BRICKS OR WIRE CHAIRS AT 48" O.C. MAX.
- ALL COVERED OR EXTERIOR CONCRETE THAT COULD POTENTIALLY BE EXPOSED TO RAIN OR CONDENSATION SHALL BE BROOM FINISHED OR HAVE SOME OTHER ADDITIVE TO PROVIDE SLIP RESISTANCE.
- FOLLOW ALL ACI'S REQUIREMENTS FOR CONCRETE COVER AROUND THE REBAR (TYPICALLY 3 INCHES MIN. IF CONCRETE IS POURED AGAINST THE EARTH).

### E. STRUCTURAL STEEL:

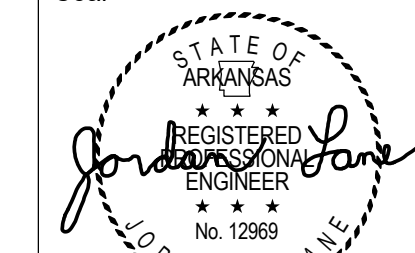
- PROVIDE LEVELING NUTS OR SHIM PACKS AS REQUIRED TO LEVEL COLUMN BASE PLATES. IF SHIM PACKS ARE USED, EITHER ENCASE SHIM PACKS WITH 1" MIN COVER OF NON-SHRINK GROUT WHEN PLACING GROUT UNDER BASE PLATE OR REMOVE THE SHIM PACKS (AFTER GROUT UNDER THE BASE PLATE HAS CURED) AND FULLY GROUT REMAINING CAVITIES. GROUT SHALL BE NON-METALLIC AND HAVE A COMPRESSIVE STRENGTH OF 7500 PSI MINIMUM.
- ALL ANCHOR RODS ARE TO BE F1554 GRADE 36 MINIMUM ANCHOR RODS WITH NUTS TACK WELDED AT THE END OF THE ROD WITH 12 INCHES OF EMBEDMENT MINIMUM (EMBEDMENT IS THE AMOUNT OF CONCRETE ABOVE THE TACK WELDED NUT). PROVIDE HEAVY DUTY WASHERS PER AISC TYPICAL. HOT DIP GALVANIZE ANY EXPOSED ANCHOR BOLTS OR COAT ANCHORS WITH A COLD GALVANIZING PRODUCT.

### F. MASONRY:

- ALL MASONRY CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH IBC 2021 AND TMS 402/602-16.
- MASONRY COMPRESSIVE STRENGTH, fm, SHALL BE 1500 PSI AND SHALL BE VERIFIED PER THE REQUIREMENTS IN THE IBC.
- STRUCTURAL MASONRY SHALL BE HOLLOW, LIGHT OR MEDIUM WEIGHT (COORD. WITH ARCHITECTURAL REQUIREMENTS) CONFORMING TO ASTM C90. BLOCK TEST DATA BY A CERTIFIED LAB SHALL BE SUBMITTED AS A PART OF THE SHOP DRAWING REVIEW. ALL BLOCKS SHALL BE PLACED IN RUNNING BOND WITH THE VERTICAL CELLS ALIGNED.
- GROUT SHALL CONFORM TO REQUIREMENTS OF IBC AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AT 28 DAYS. THE GROUT SHALL FLOW INTO ALL JOINTS OF THE MASONRY. ONLY GROUT SOLID CELLS WITH REINFORCING.
- USE TYPE S MORTAR AND FOLLOW ASTM C-144.
- REINFORCING SHALL BE SECURED IN ITS PROPER POSITION WITHIN THE CELL TO PREVENT LATERAL MOVEMENT PRIOR TO OR DURING GROUTING.
- ALL WALLS SHALL HAVE BOND BEAMS AT 48" O.C. WITH 2 - #5 BARS CONTINUOUS. CORNER BARS SHOULD BE PROVIDED THE WALLS AT THE BOND BEAM LOCATIONS.
- THREE VERTICAL BARS SHOULD BE PROVIDED AT ALL WALL CORNERS AND SHOULD MATCH THE TYPICAL VERTICAL BAR SIZE. AT OPENINGS, TWO VERTICAL BARS SHOULD BE PROVIDED EACH SIDE OF THE WALL OPENING UNLESS MORE THAN TWO BARS ARE INDICATED ON THE DRAWINGS.

Rev.	Date	Revision Description

Seal



12/20/2024

CONSTRUCTION DOCUMENTS - 100% SET

Issue Date: 12/20/2024

Project No: ARKGAMEF.0003 WR

Drawn By: AEP

Checked By: JWJL

Sheet Title:  
COVER SHEET & GENERAL NOTES

Sheet Number:

S001



1814 E. MATTHEWS AVE.  
JONESBORO, ARKANSAS 72401  
PHONE: (870) 219-3438

Rev.	Date	Revision Description

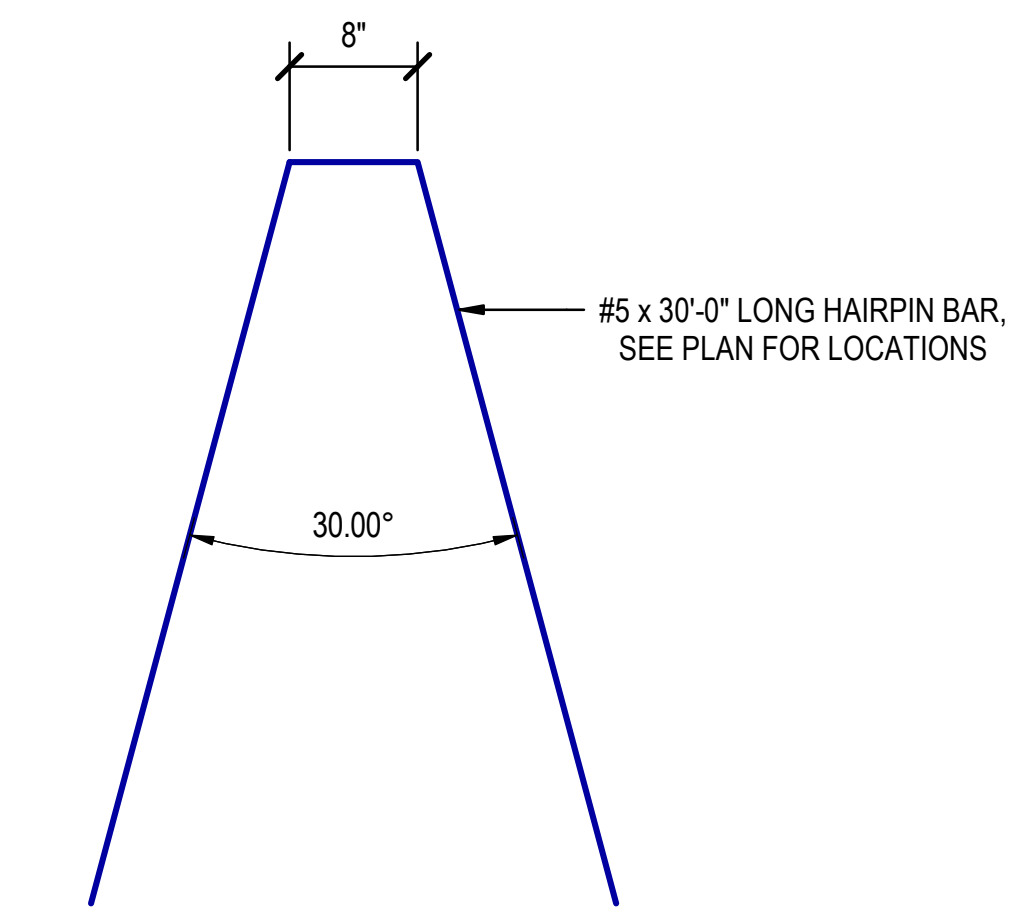
Seal  
 STATE OF ARKANSAS  
 REGISTERED PROFESSIONAL ENGINEER  
 JORDAN W. JANE  
 No. 12989  
 12/20/2024

CONSTRUCTION DOCUMENTS - 100% SET  
 Issue Date: 12/20/2024  
 Project No: ARKGAMEF.0003 WR  
 Drawn By: AEP  
 Checked By: JWJ  
 Sheet Title: FOUNDATION AND SLAB PLAN

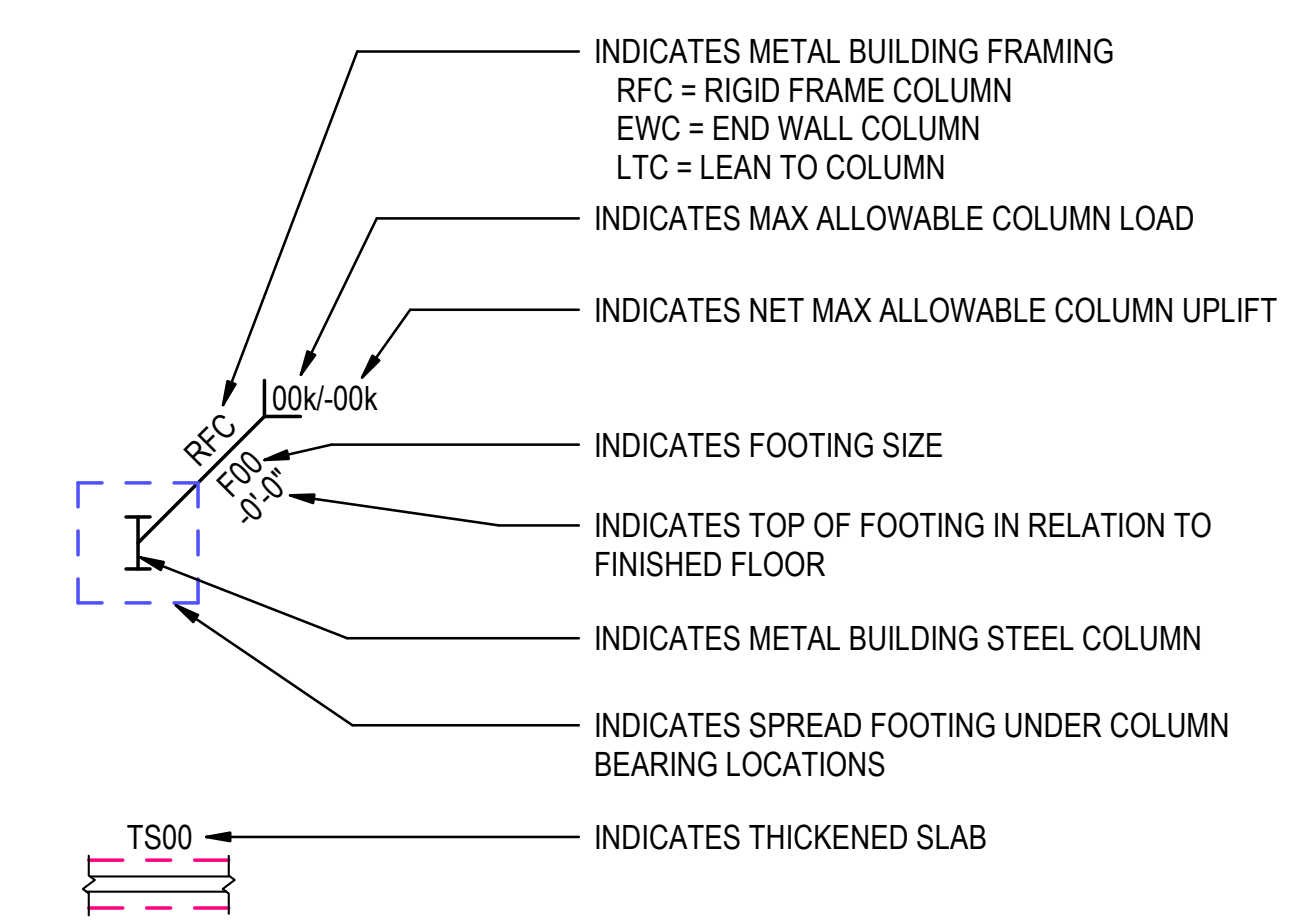
Sheet Number: **S101**



**2** TYPICAL HAIRPIN BAR  
 1" = 1'-0"



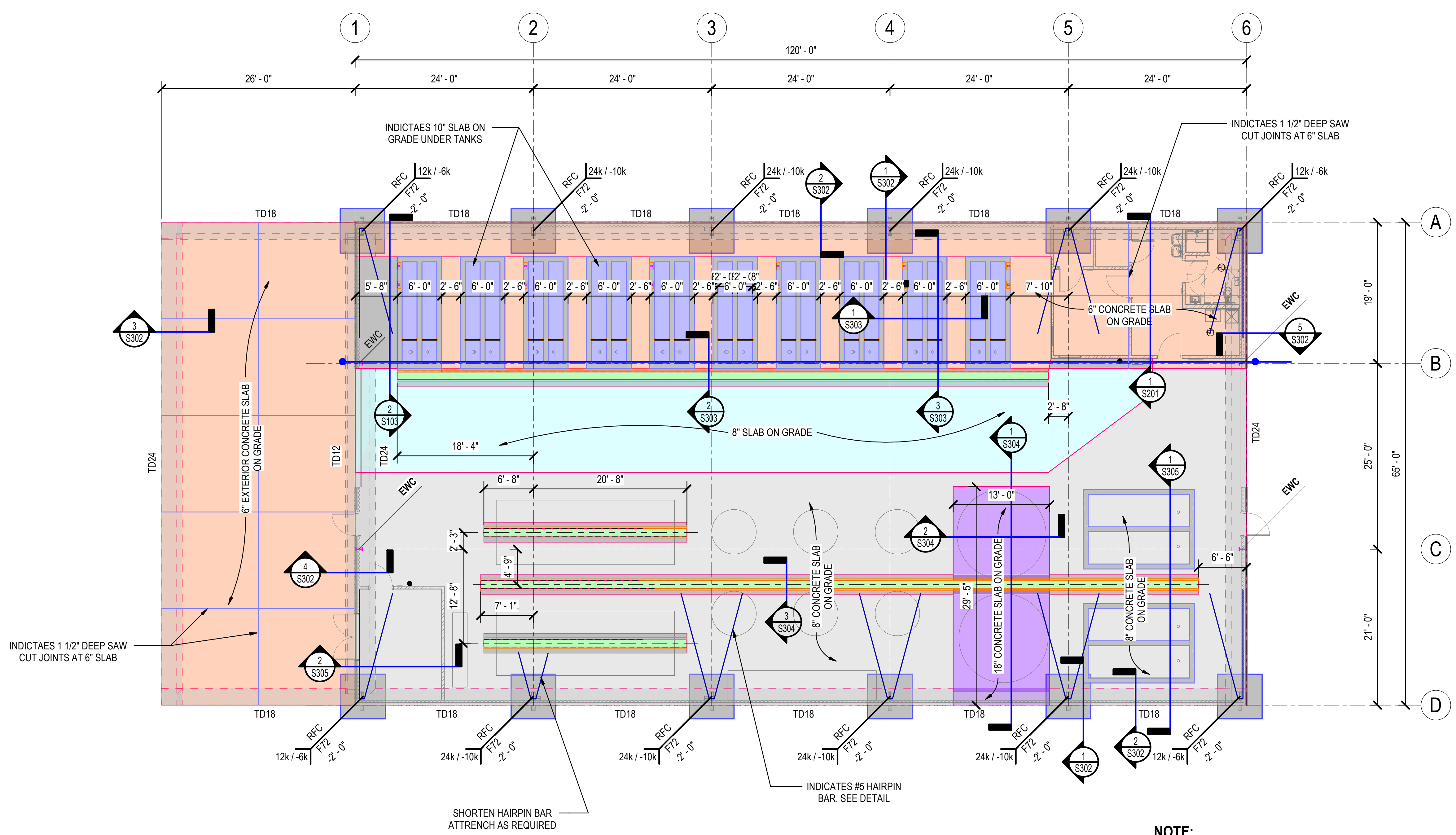
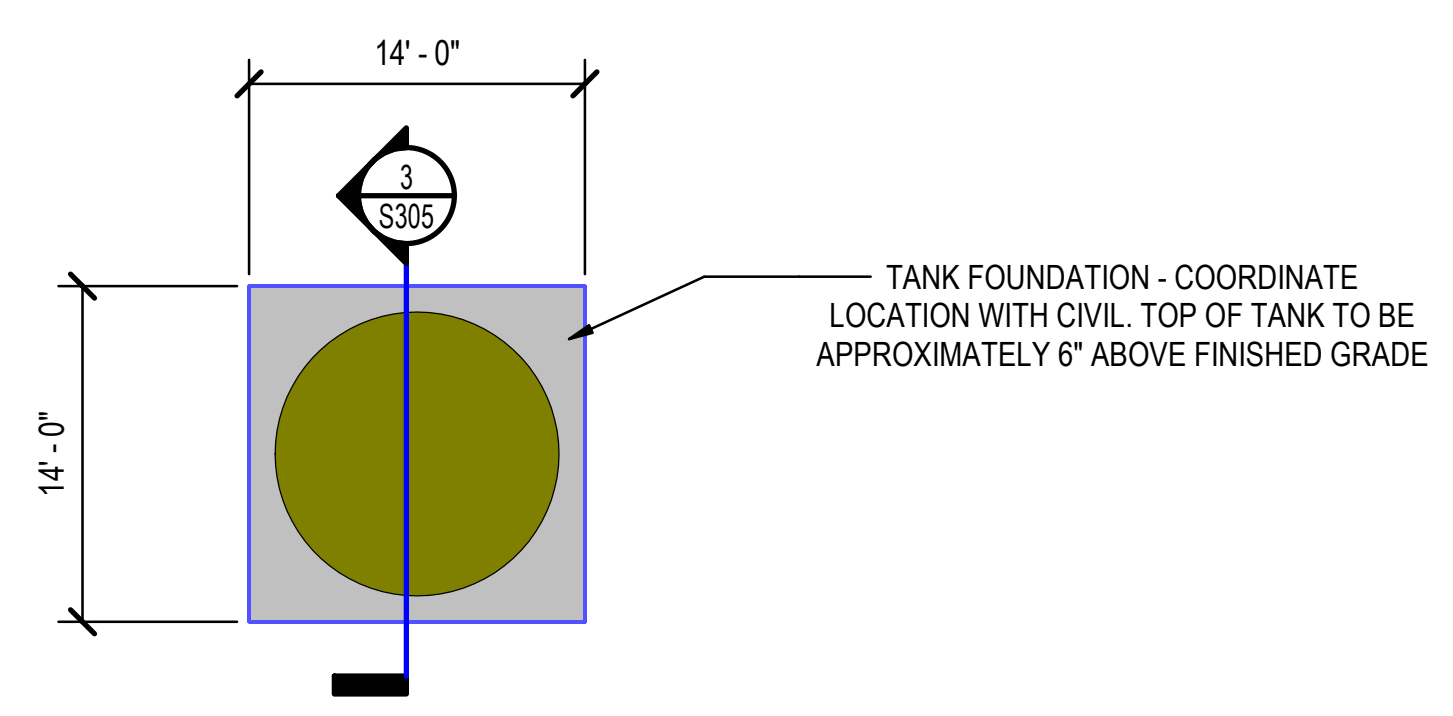
**FOUNDATION AND SLAB LEGEND**



FOOTING SCHEDULE		
MARK	LxWxD	REINFORCING
F72	6'-0"x6'-0"x1'-6"	#5 AT 10" O.C. MAX EACH WAY, TOP & BOT

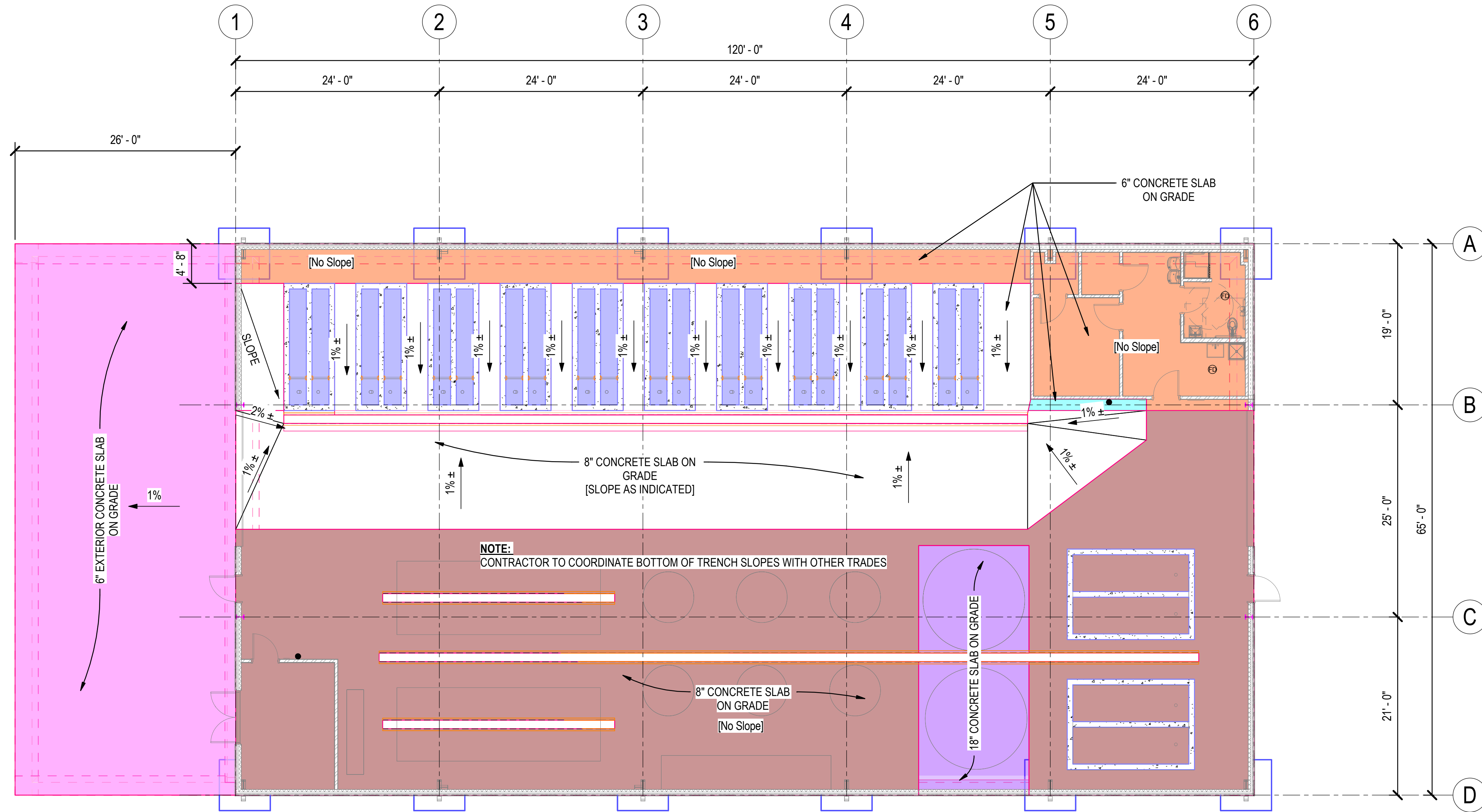
**NOTE:**  
 SEE S102 FOR SLAB SLOPE & LAYOUT PLAN

**1** FOUNDATION AND SLAB PLAN  
 1/8" = 1'-0"



**1** FOUNDATION AND SLAB PLAN  
 1/8" = 1'-0"





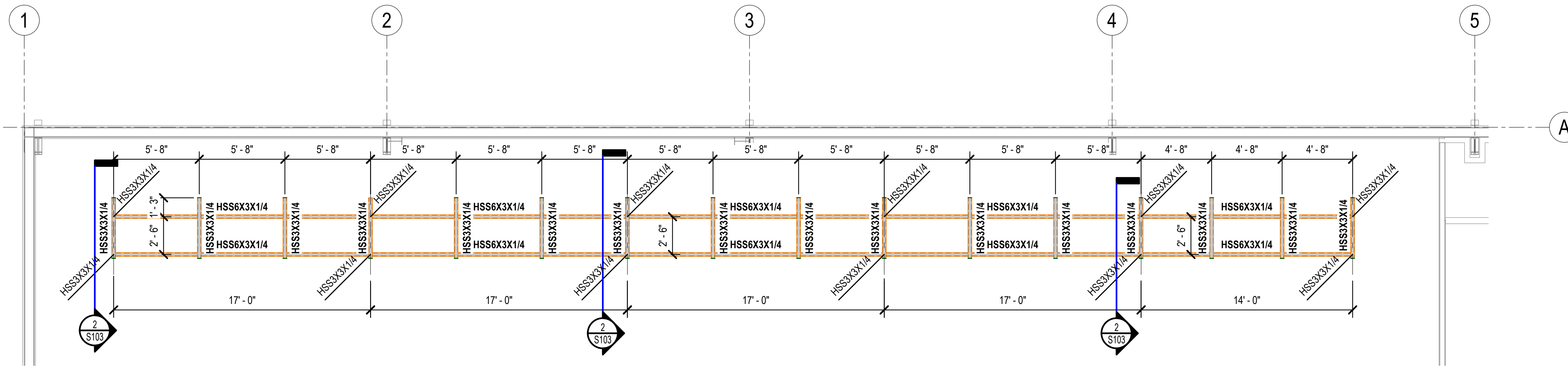
1 SLAB SLOPE & LAYOUT PLAN  
1/8" = 1'-0"

Rev.	Date	Revision Description

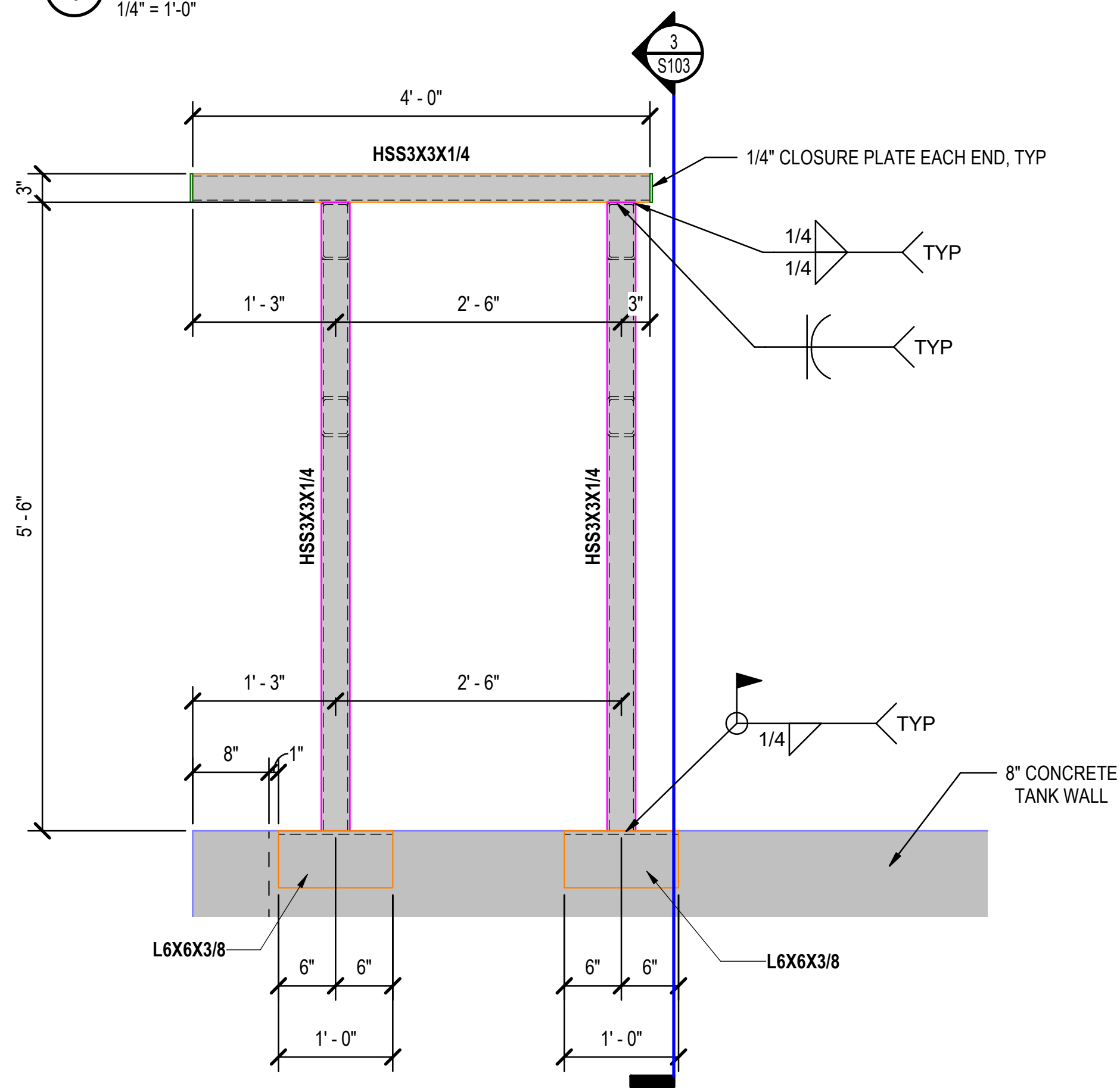
Seal  
  
 12/20/2024

CONSTRUCTION DOCUMENTS - 100% SET  
 Issue Date: 12/20/2024  
 Project No: ARKGAMEF.0003 WR  
 Drawn By: AEP  
 Checked By: JWLL  
 Sheet Title: SLAB SLOPE & LAYOUT PLAN

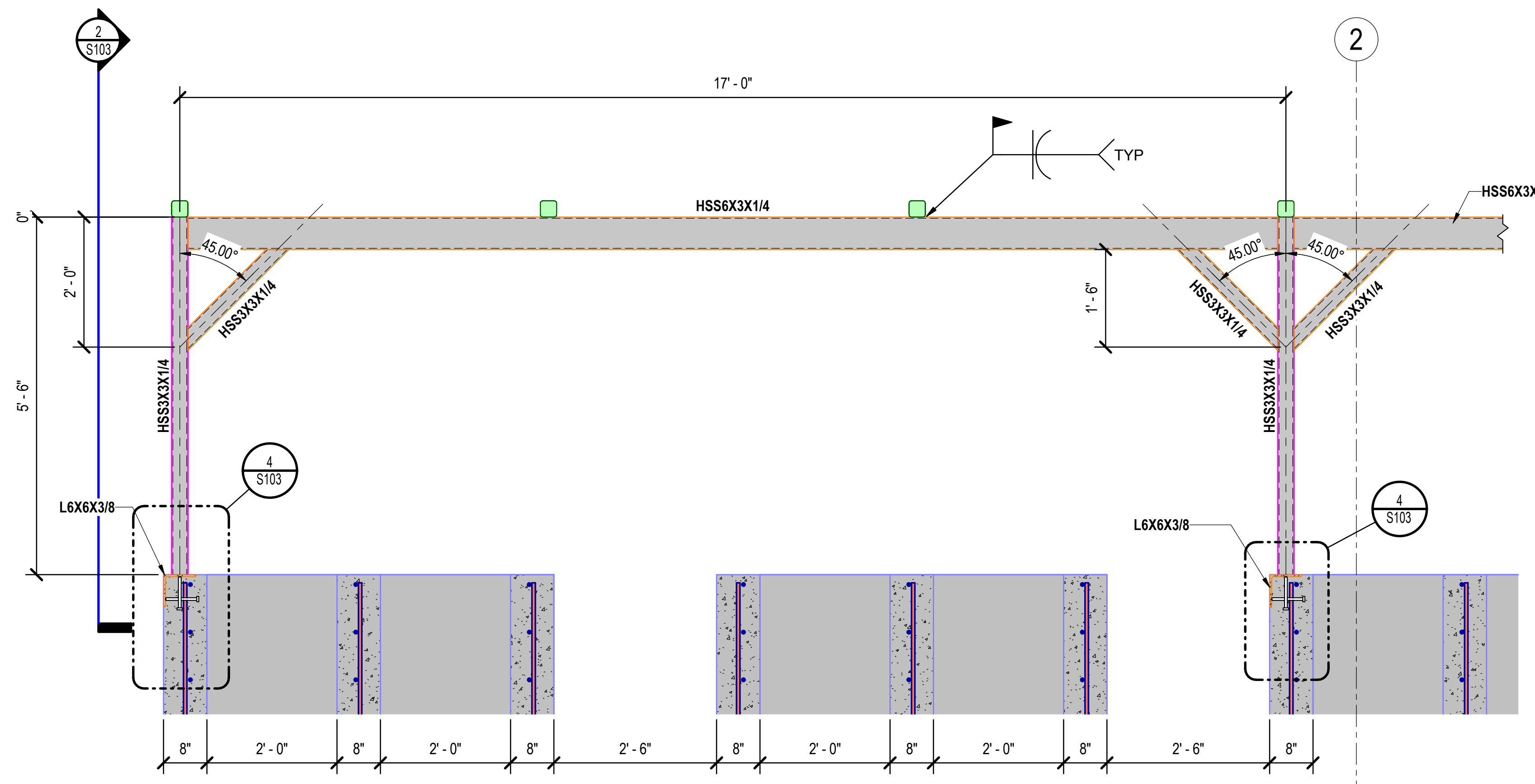




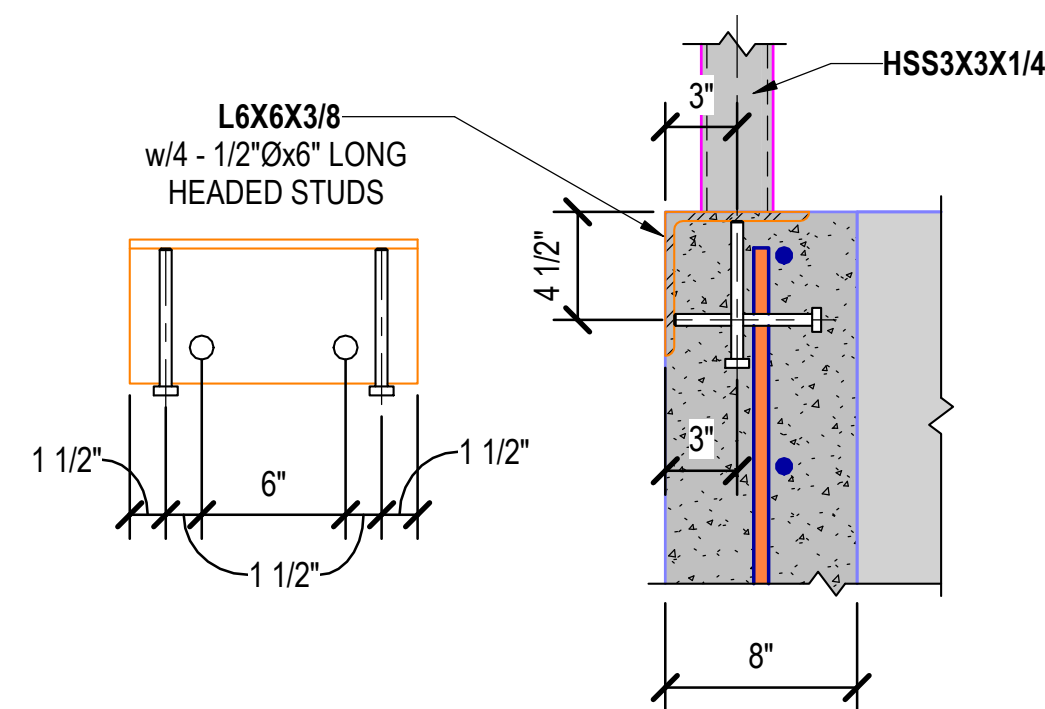
1 PARTIAL PLAN AT PIPE RACK  
1/4" = 1'-0"



2 TYPICAL PARTIAL ELEVATION OF PIPE RACK  
1" = 1'-0"



3 TYPICAL PARTIAL ELEVATION OF PIPE RACK  
3/4" = 1'-0"



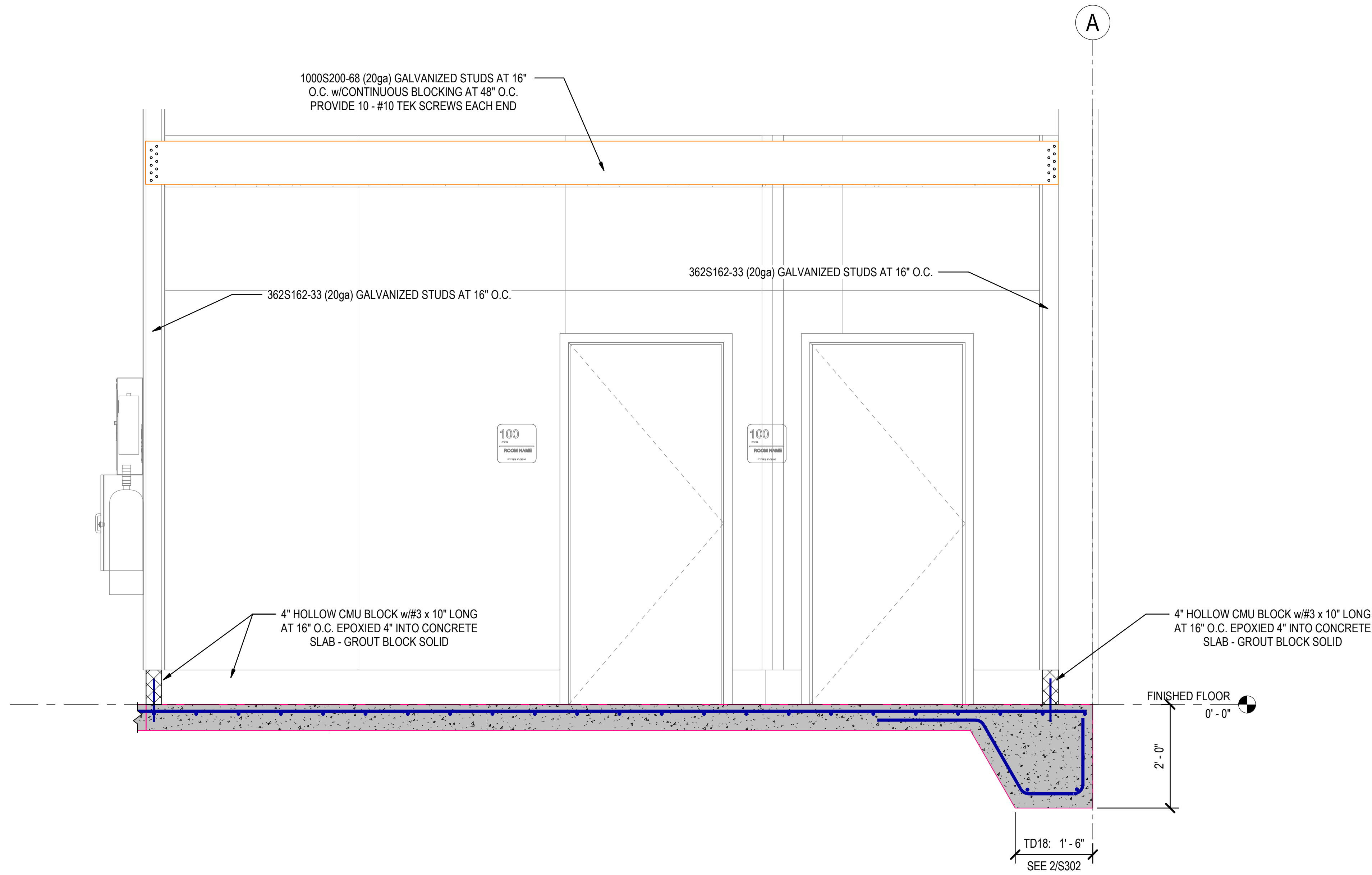
4 CONNECTION DETAIL  
1 1/2" = 1'-0"

Rev.	Date	Revision Description

Seal  
  
 12/20/2024

CONSTRUCTION DOCUMENTS - 100% SET  
 Issue Date: 12/20/2024  
 Project No: ARKGAMEF.0003 WR  
 Drawn By: AEP  
 Checked By: JWJL  
 Sheet Title: PARTIAL PLAN AT PIPE RACK





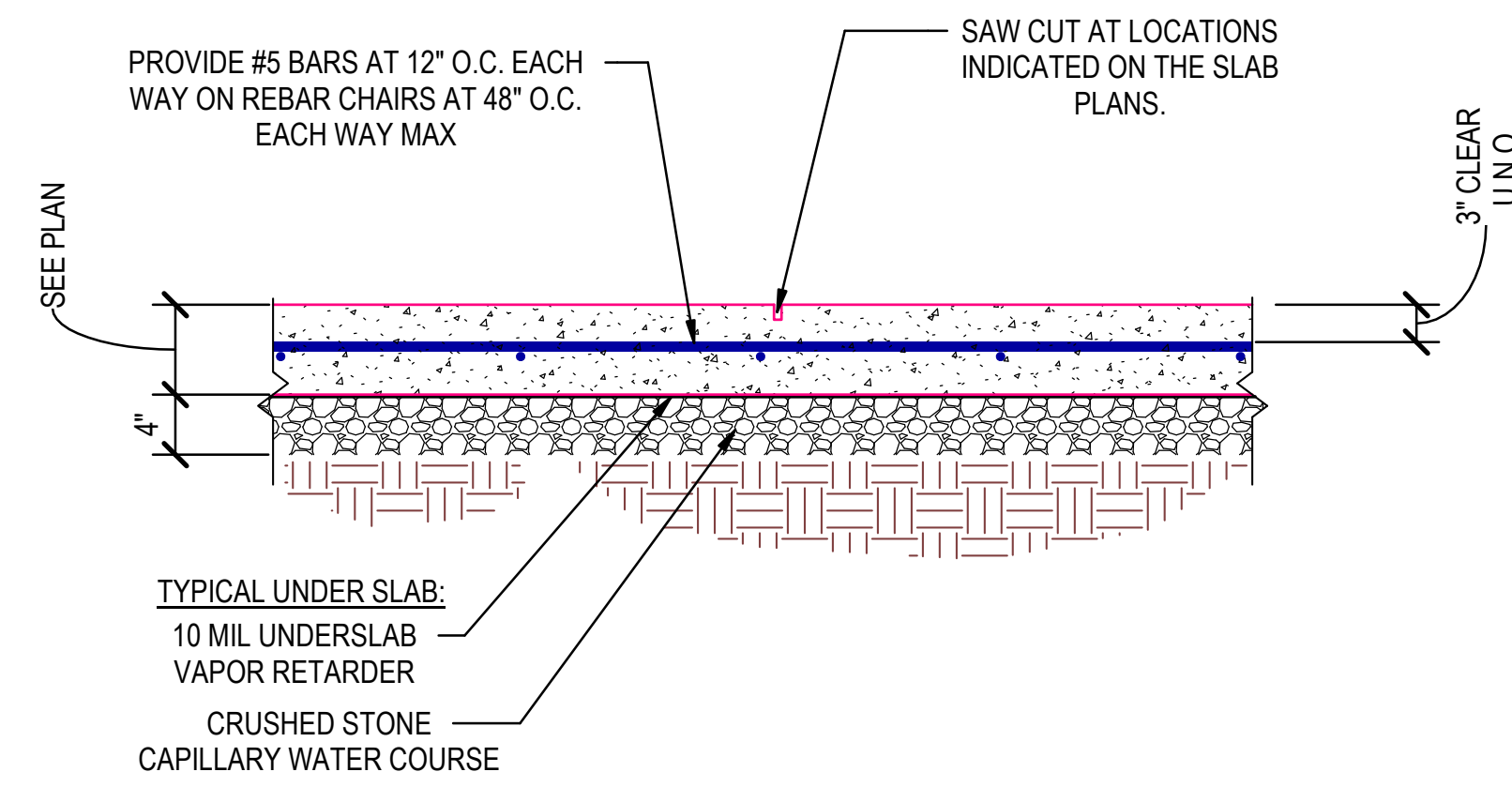
1 PARTIAL ELEVATION  
3/4" = 1'-0"

Rev.	Date	Revision Description

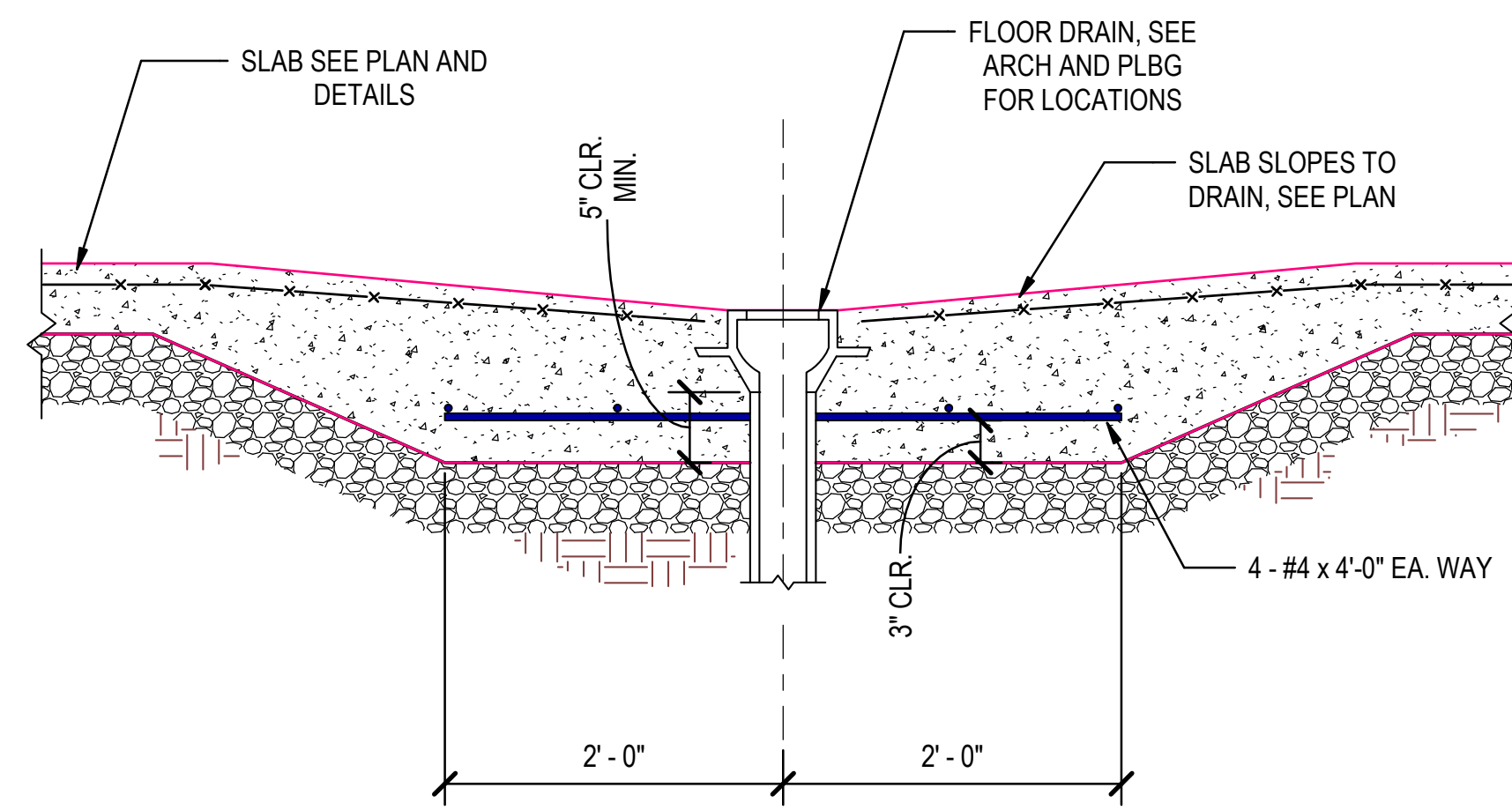
Seal  
  
 12/20/2024

CONSTRUCTION DOCUMENTS - 100% SET  
 Issue Date: 12/20/2024  
 Project No: ARKGAMEF.0003 WR  
 Drawn By: AEP  
 Checked By: JWJL  
 Sheet Title: ELEVATION



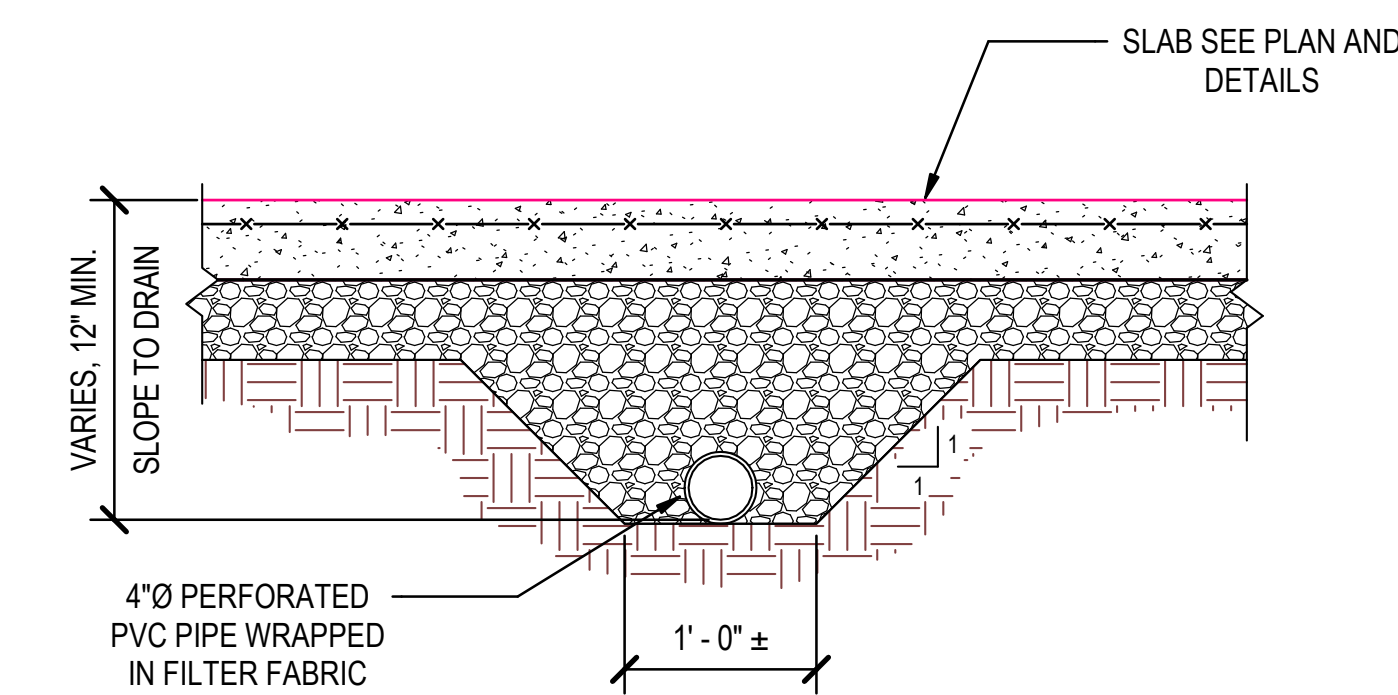


1 TYPICAL SLAB ON GRADE DETAIL  
NOT TO SCALE

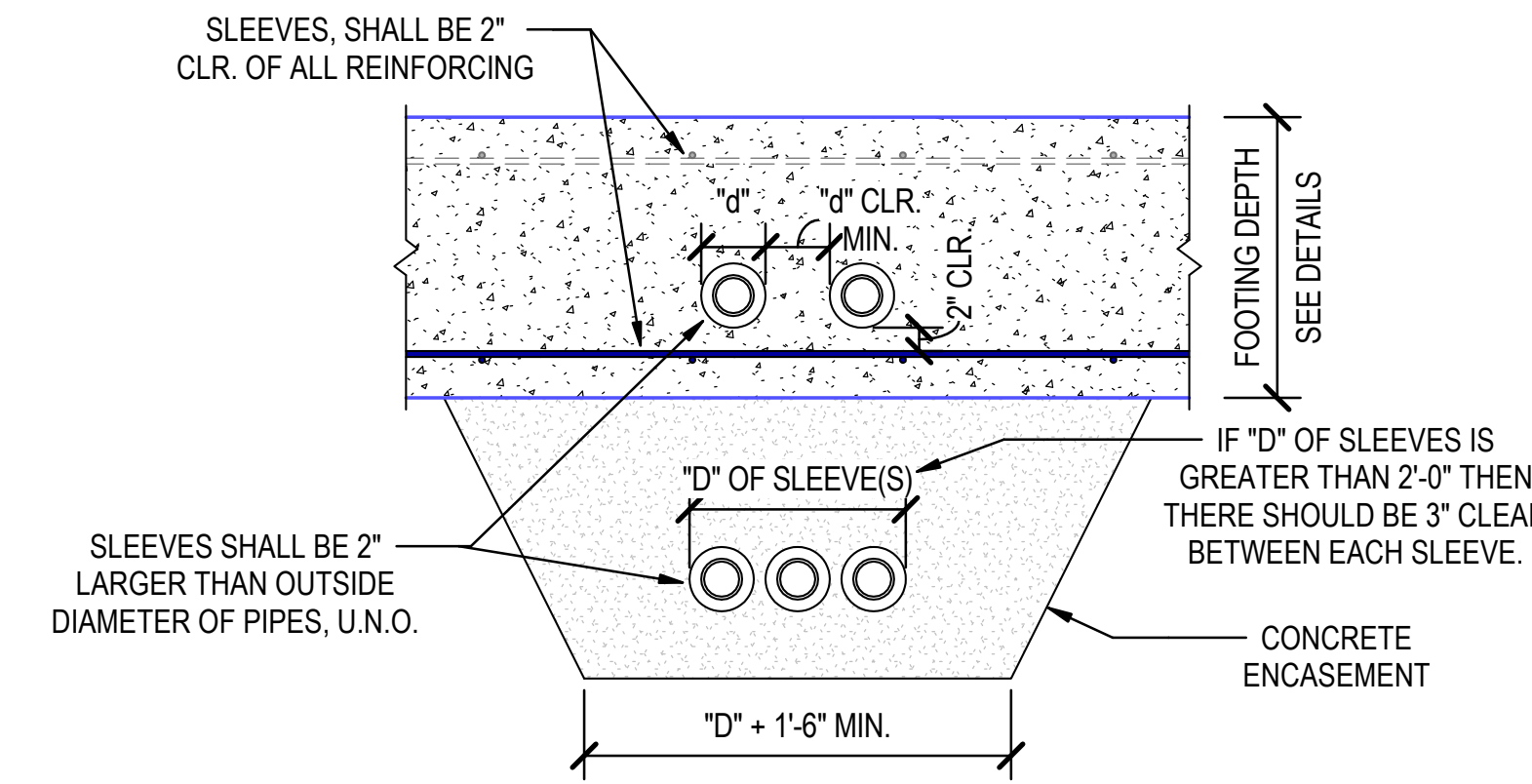


A FLOOR DRAIN AT SLOPED SLAB

3 TYPICAL SLAB ON GRADE PENETRATION DETAILS  
NOT TO SCALE

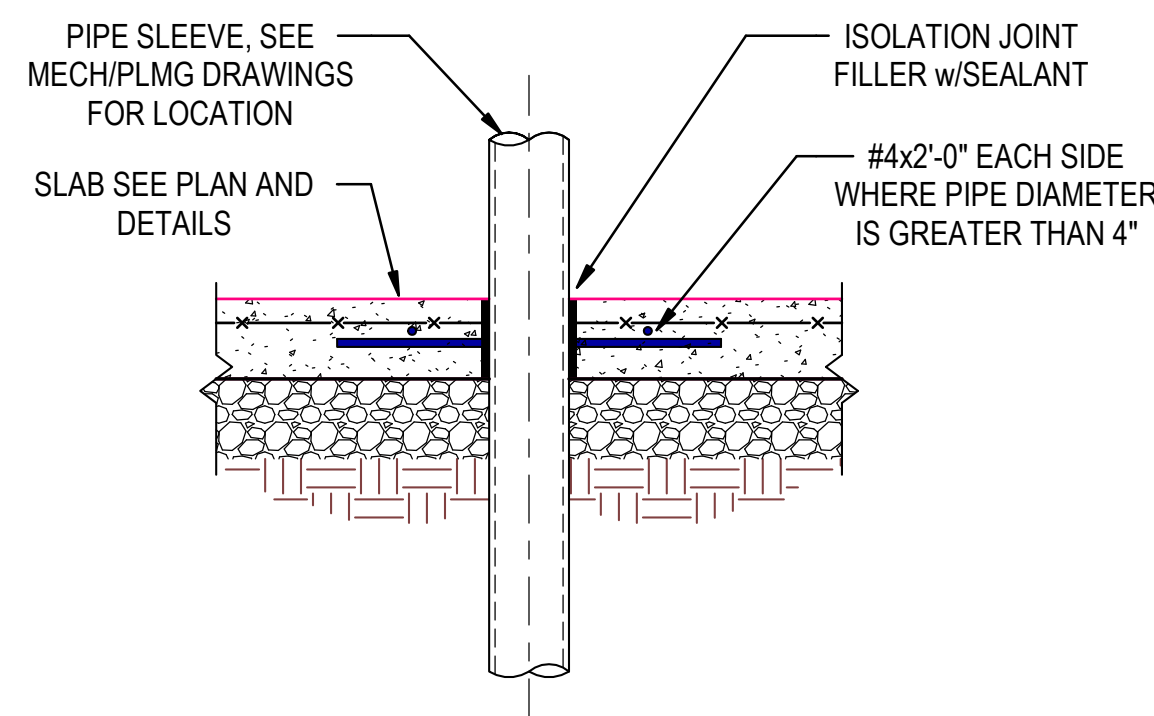


5 TYPICAL UNDER SLAB DRAINAGE DETAIL  
NOT TO SCALE



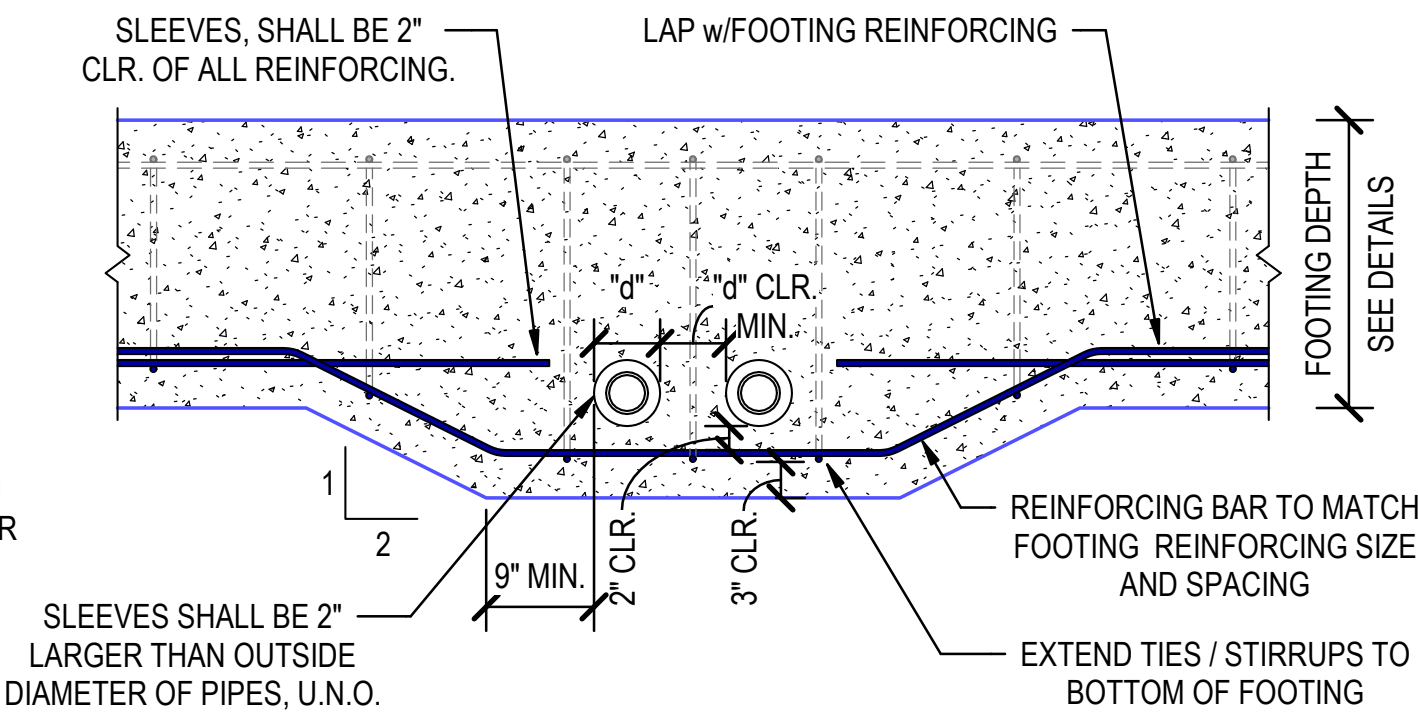
A PIPES THROUGH OR BELOW FOOTING

2 PIPES THROUGH CONTINUOUS FOOTINGS  
NOT TO SCALE

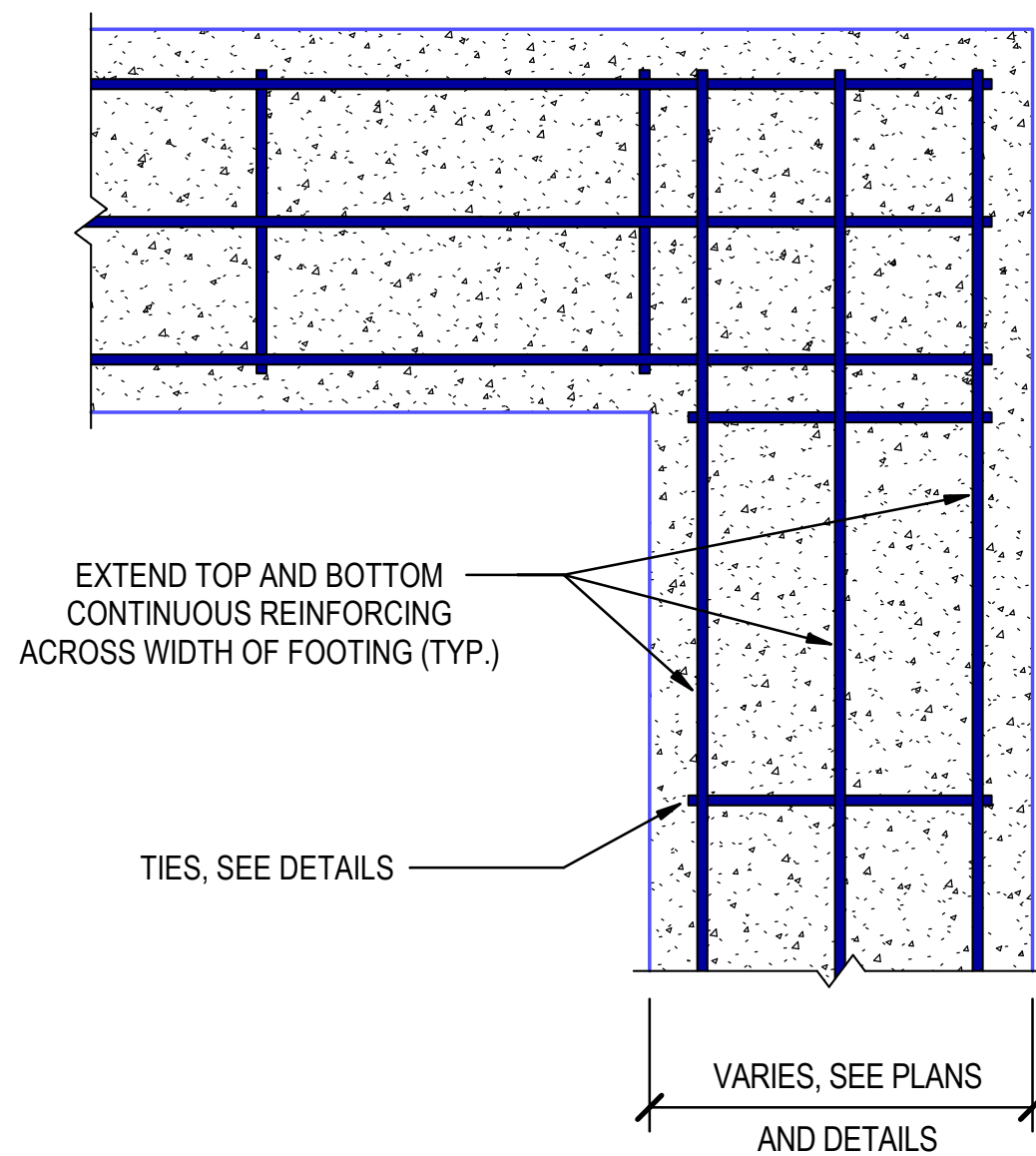


B MECH/PLMG PIPE THROUGH SLAB

- NOTES:**
1. PIPE SLEEVES SHALL BE PVC, CAST IRON, OR GALV. STEEL.
  2. COORD. PIPE SLEEVE LOCATIONS w/MECH. ELEC. AND PLMG.
  3. THE NOMINAL SLEEVE DIAMETER SHALL NOT BE GREATER
  4. SLEEVES SHALL BE 2" CLEAR FROM TOP REINF.
  5. SEAL EACH SIDE OF SLEEVES AROUND PIPE.



B PIPES THROUGH FOOTING (INTERRUPTED REINFORCING)



4 CONT. FOOTING REINF. AT CORNERS  
NOT TO SCALE

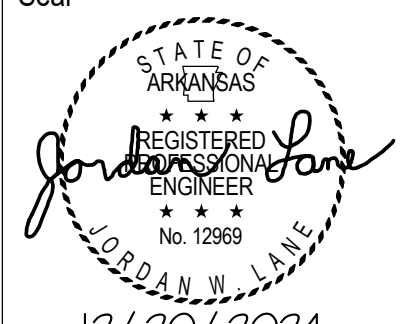
Rev.	Date	Revision Description

Seal  
STATE OF ARKANSAS  
REGISTERED PROFESSIONAL ENGINEER  
JORDAN W. JANE  
No. 12989  
12/20/2024

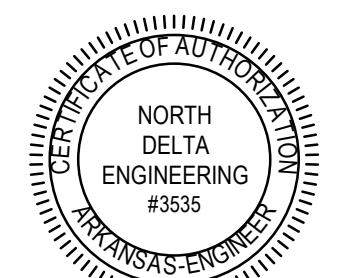
CONSTRUCTION DOCUMENTS - 100% SET  
Issue Date: 12/20/2024  
Project No: ARKGAMEF.0003 WR  
Drawn By: AEP  
Checked By: JWJ  
Sheet Title: FOUNDATION DETAILS



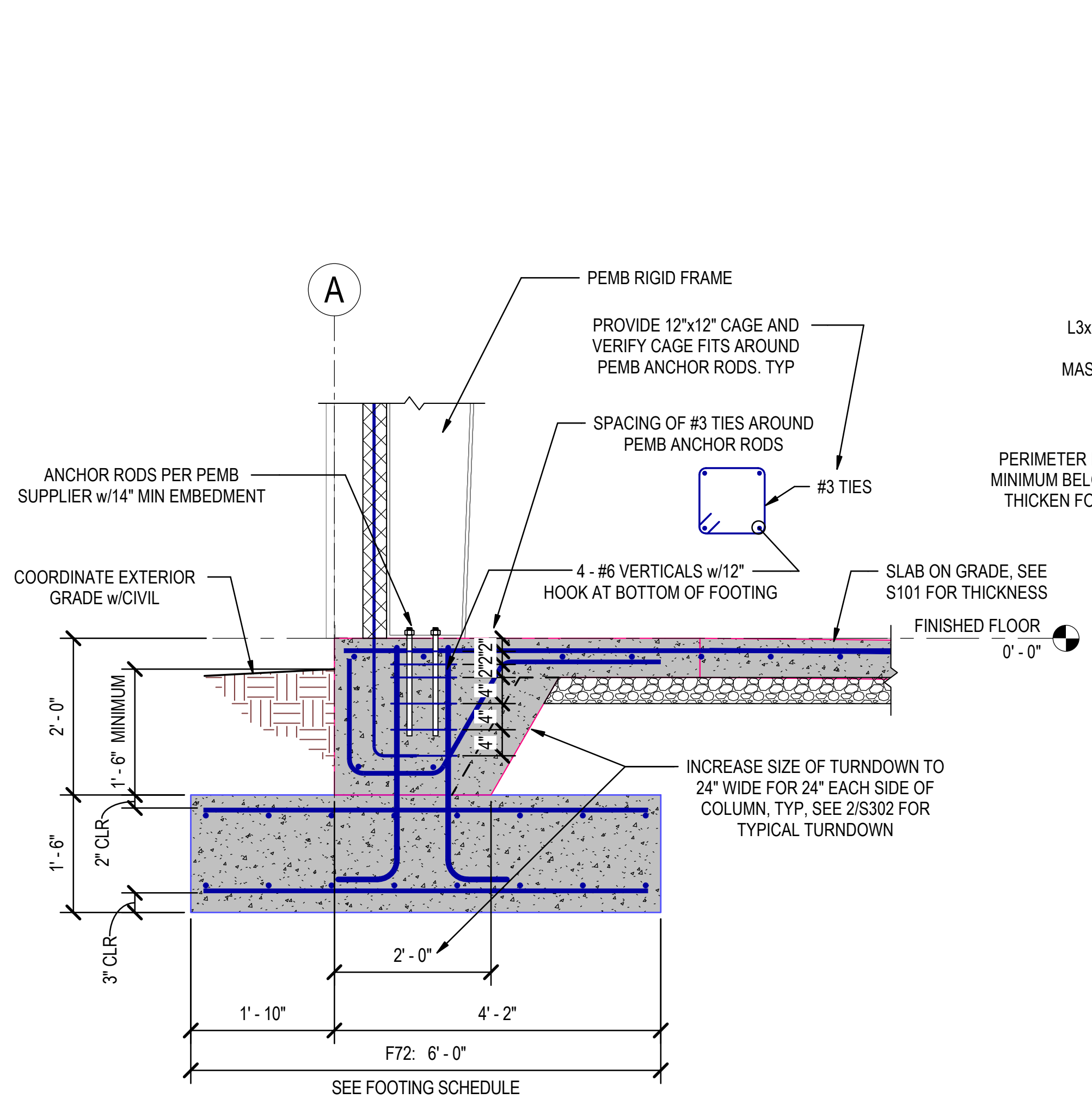
Rev.	Date	Revision Description

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 12/20/2024

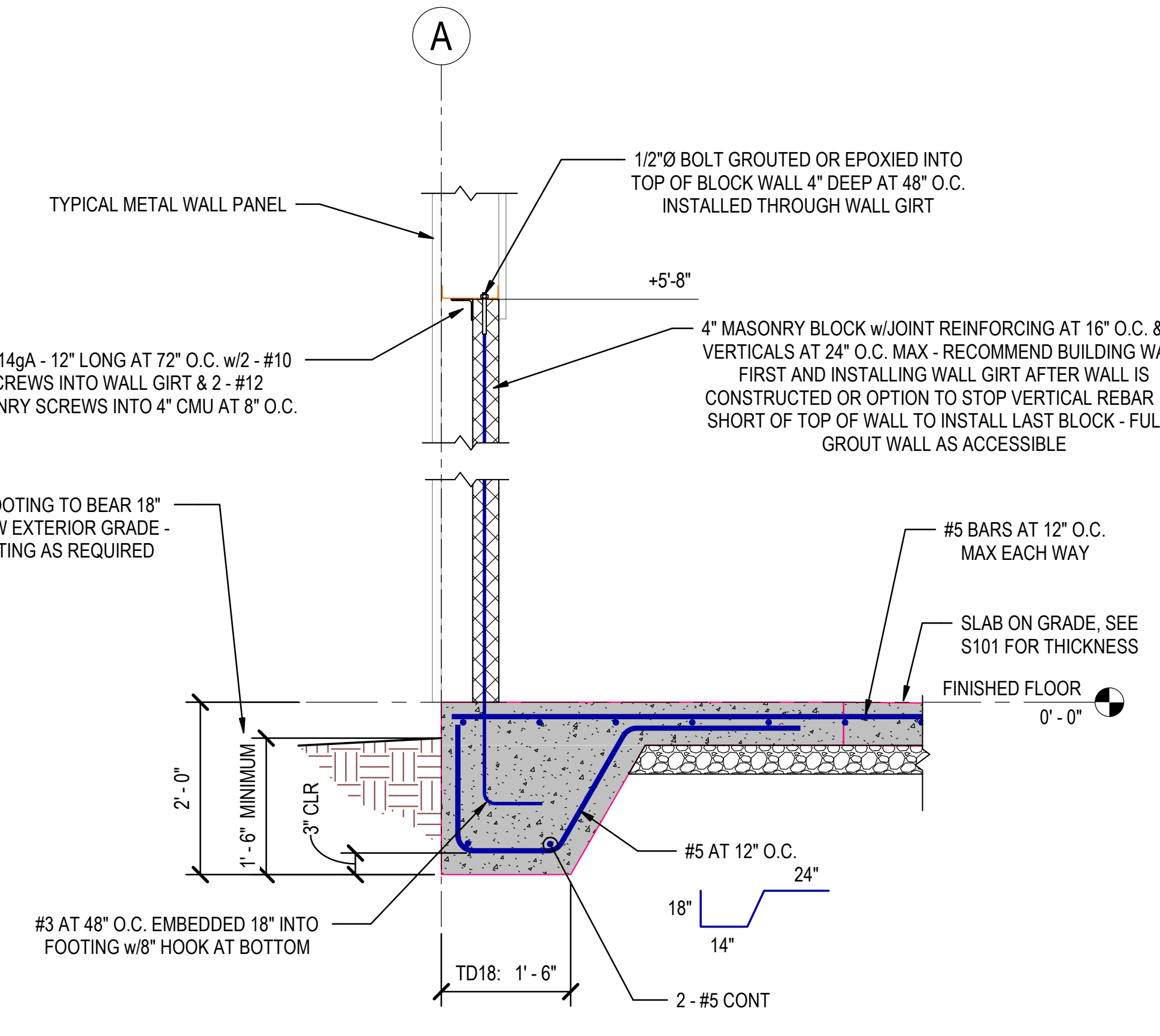
CONSTRUCTION DOCUMENTS - 100% SET  
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 Project No: ARKGAMEF.0003 WR  
 Drawn By: AEP  
 Checked By: JWJL  
 Sheet Title: FOUNDATION DETAILS



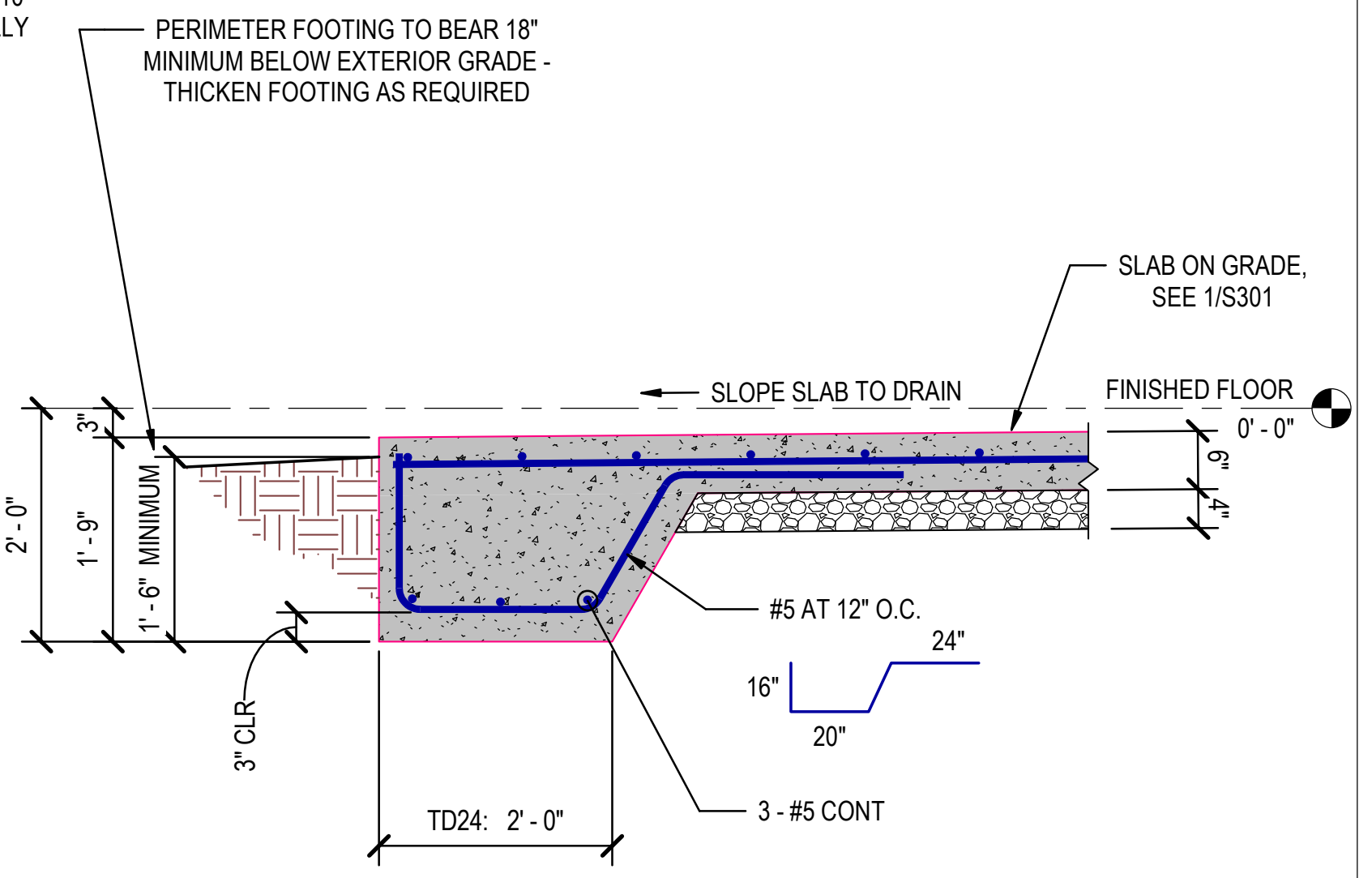
Sheet Number:  
**S302**



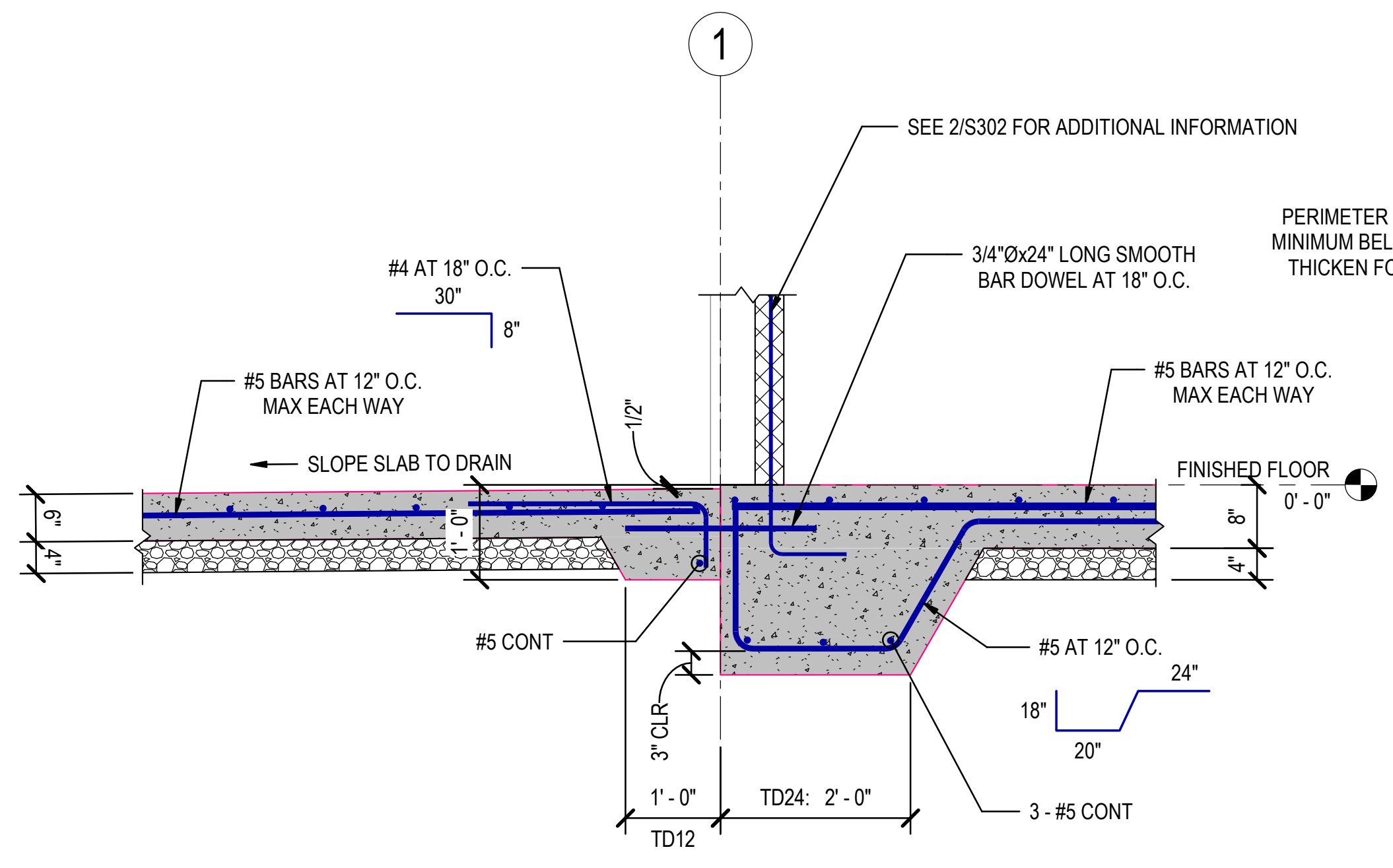
**1 SECTION THROUGH EXTERIOR COLUMN FOOTING**  
 3/4" = 1'-0"



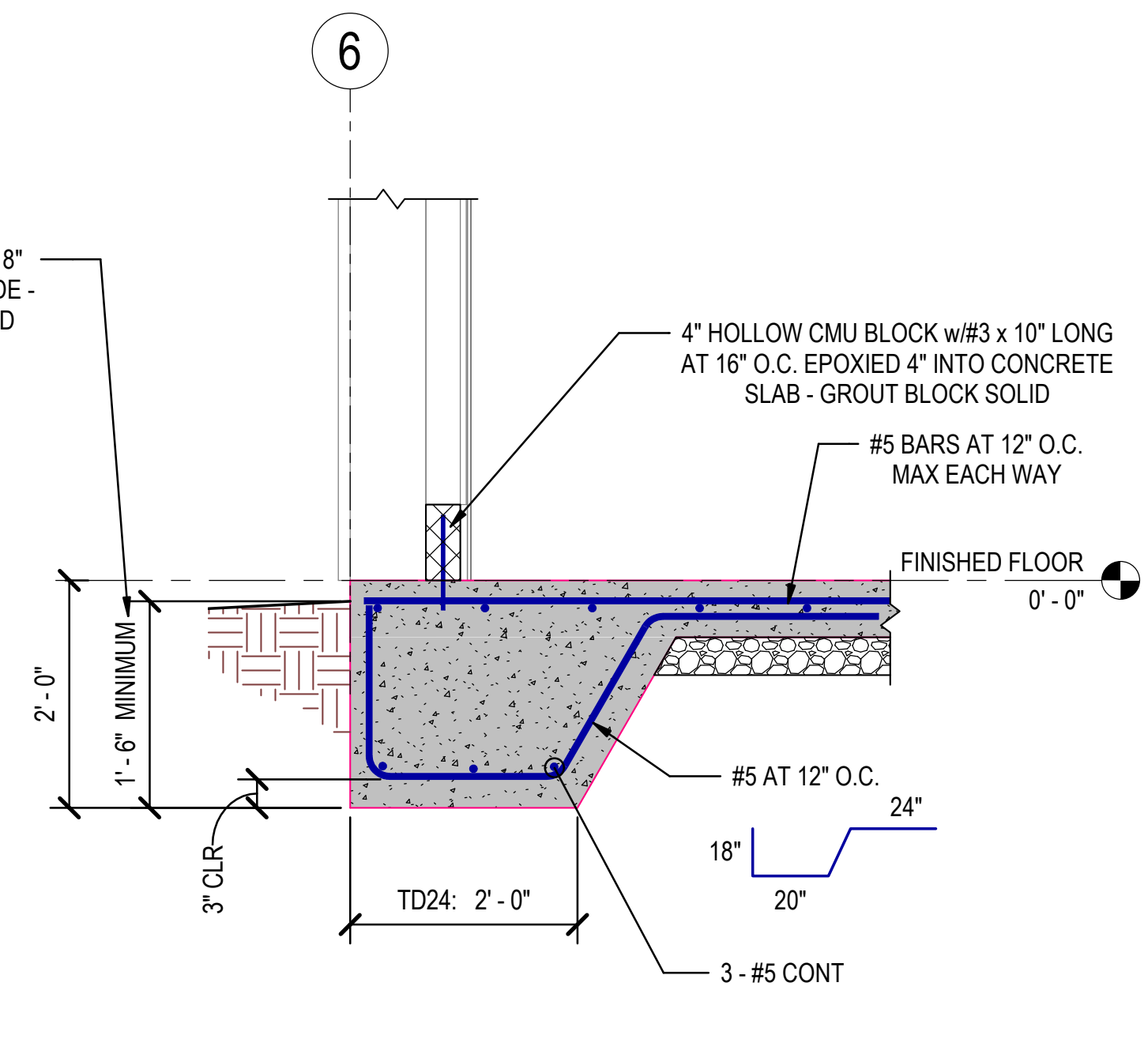
**2 SECTION THROUGH SLAB TURNDOWN - TD18**  
 3/4" = 1'-0"



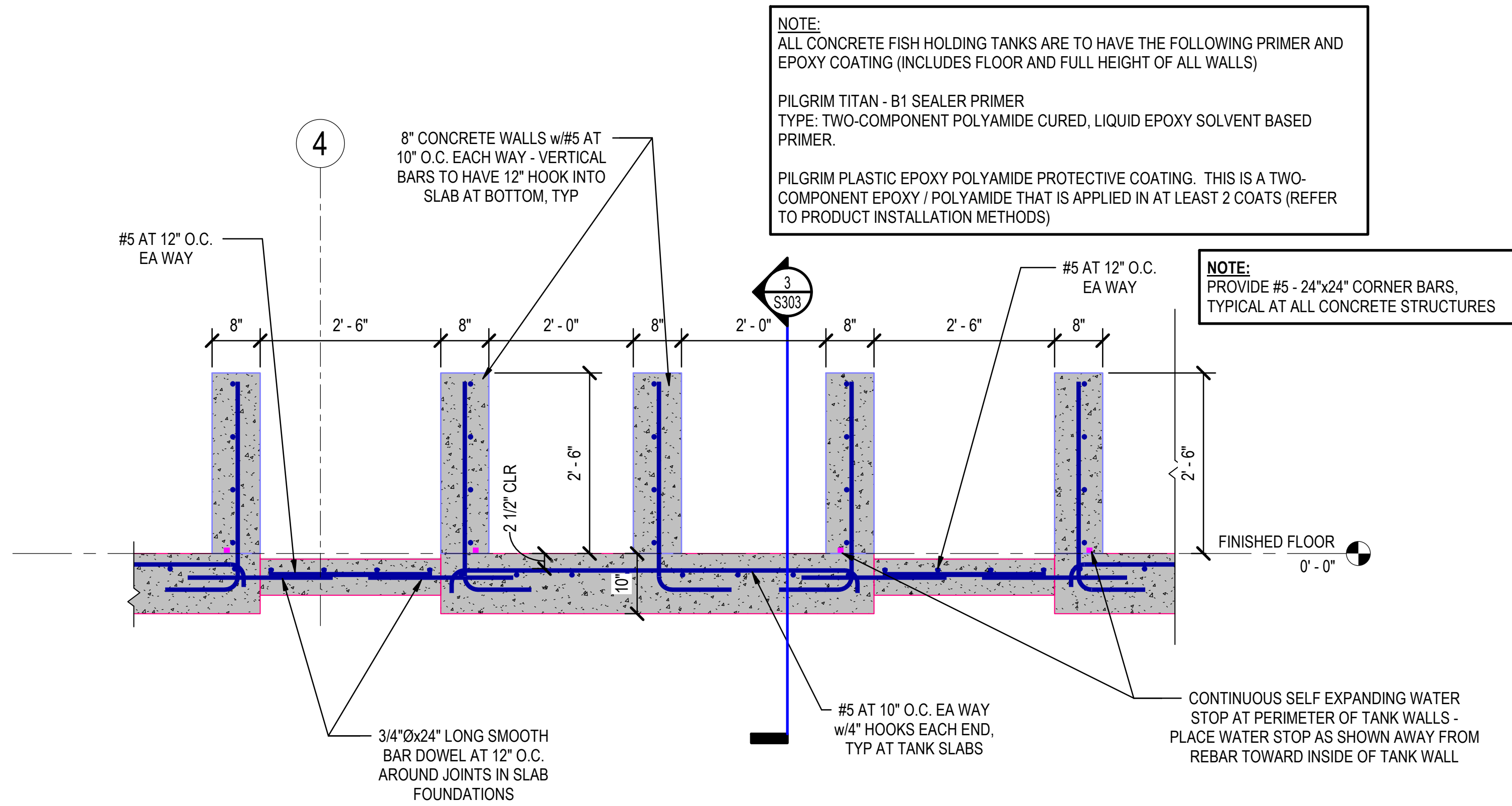
**3 SECTION THROUGH SLAB TURNDOWN - TD24**  
 3/4" = 1'-0"



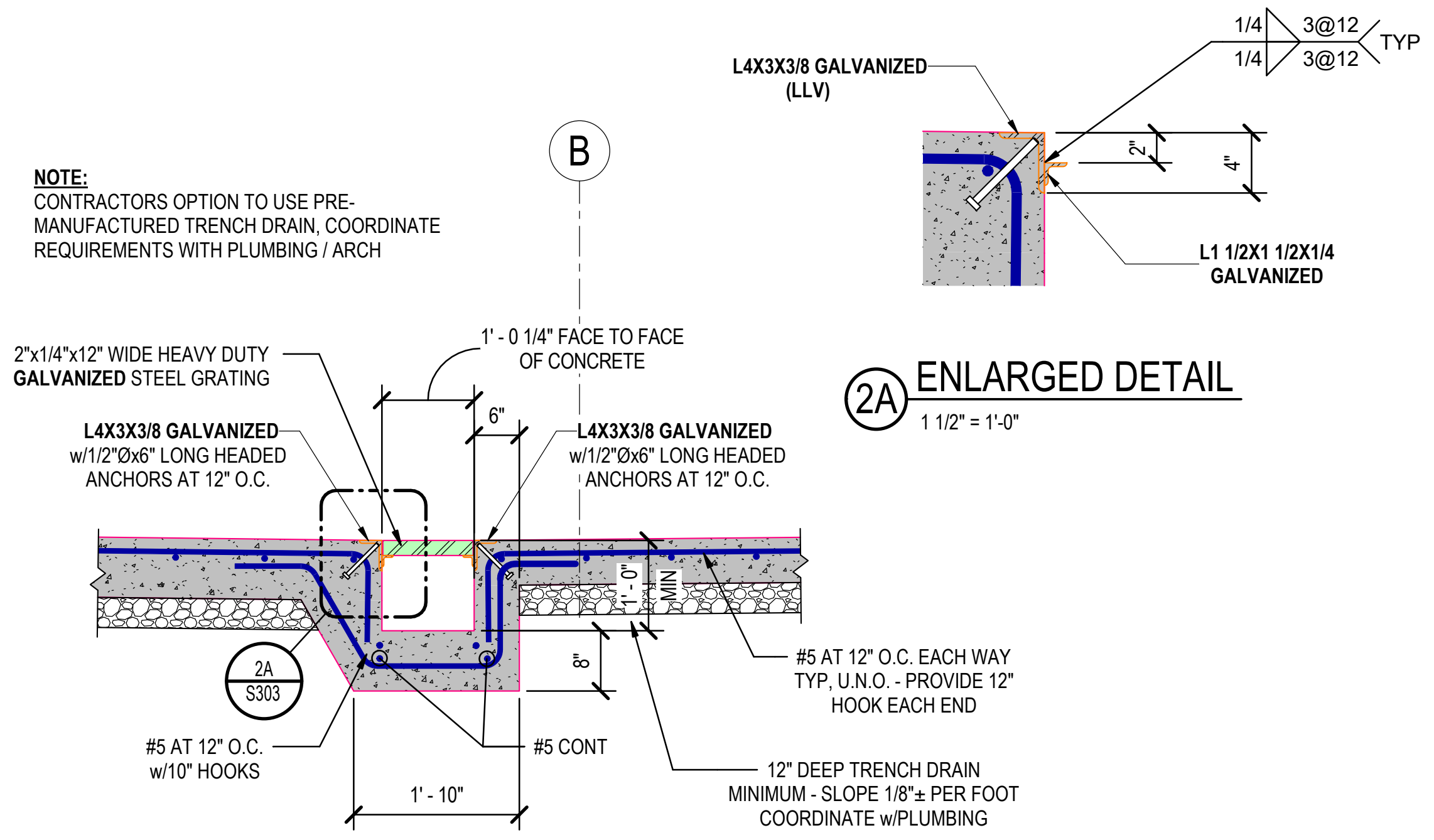
**4 SECTION THROUGH FOUNDATION AT GRID 2**  
 3/4" = 1'-0"



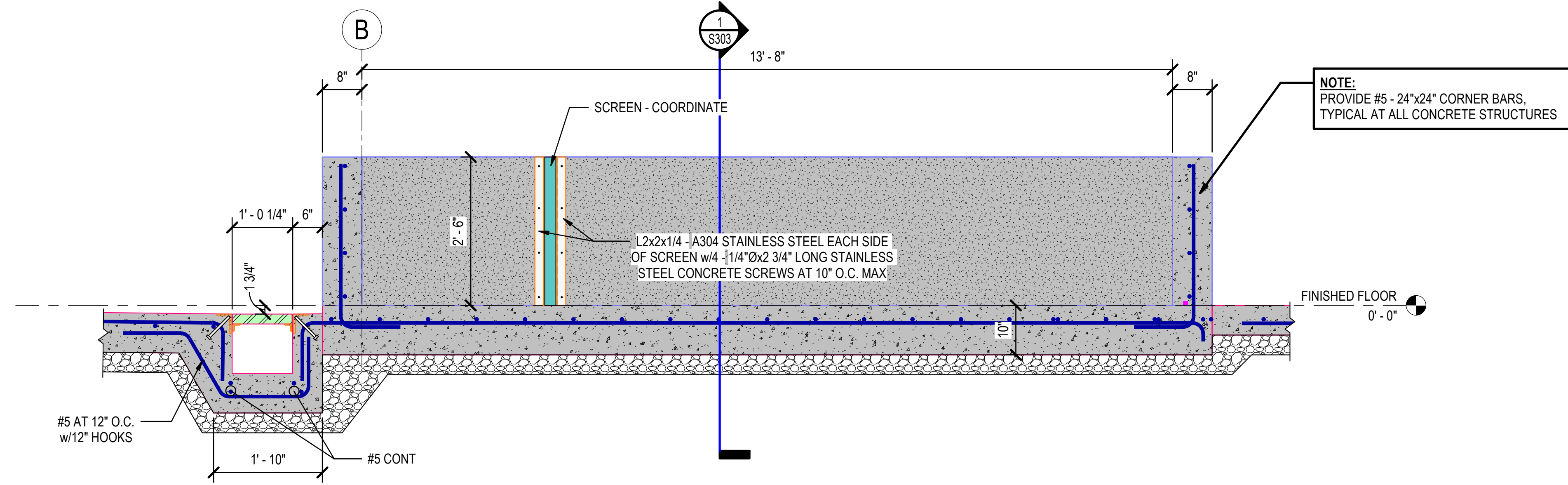
**5 SECTION THROUGH SLAB TURNDOWN - TD24**  
 3/4" = 1'-0"



1 TYPICAL SECTION THROUGH TANKS  
3/4" = 1'-0"



2 FOUNDATION DETAIL  
3/4" = 1'-0"



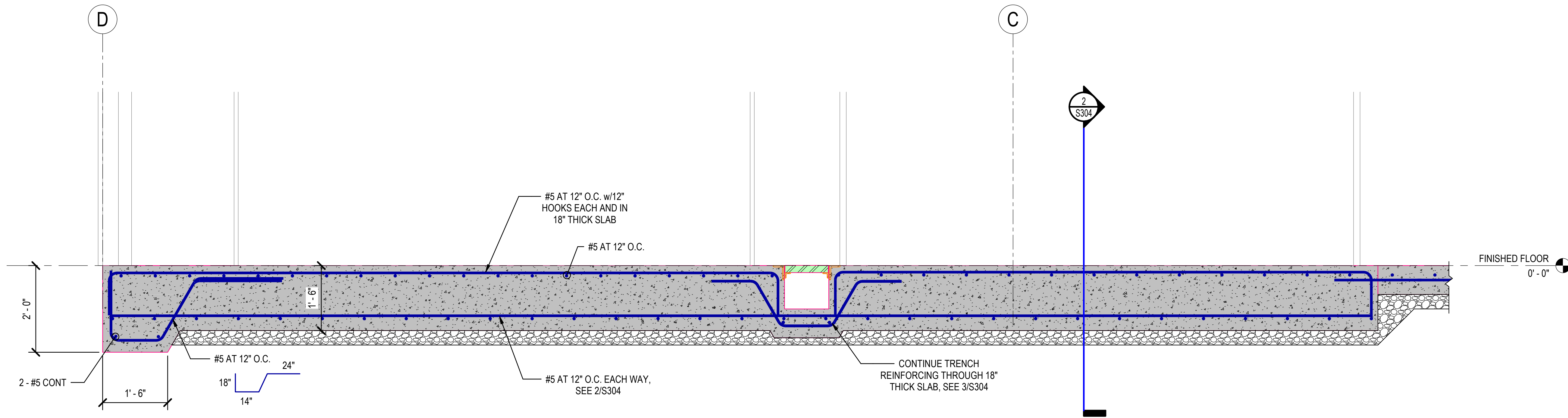
3 TYPICAL SECTION THROUGH TANKS  
3/4" = 1'-0"

Rev.	Date	Revision Description

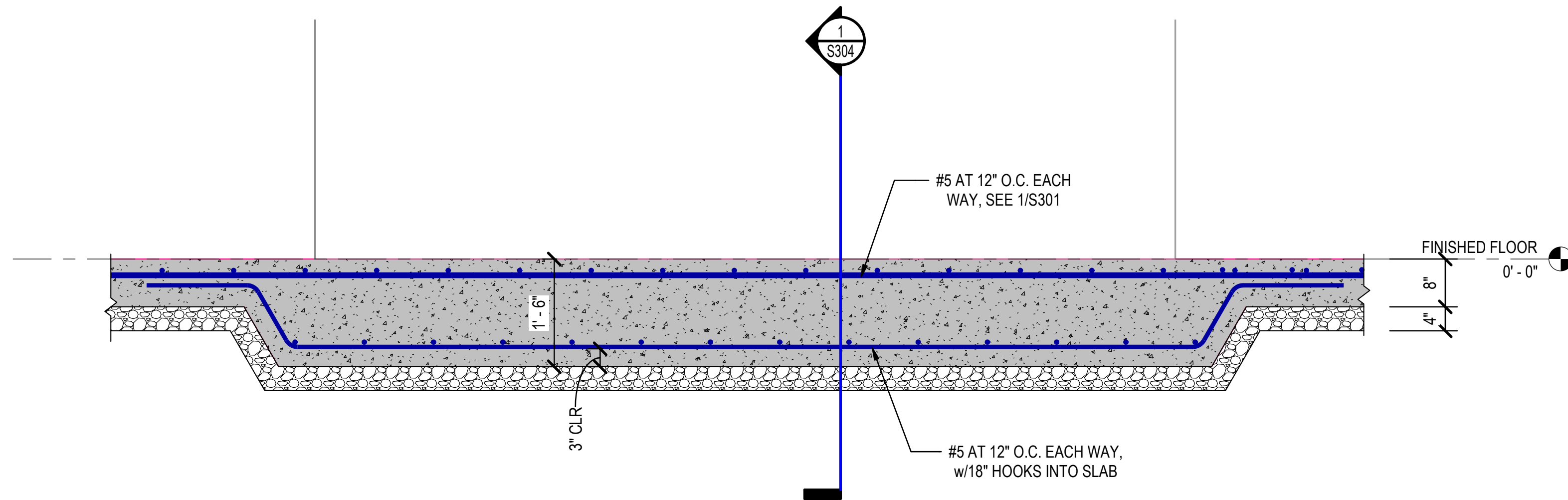
Seal  
  
 12/20/2024

CONSTRUCTION DOCUMENTS - 100% SET  
 Issue Date: 12/20/2024  
 Project No: ARKGAMEF.0003 WR  
 Drawn By: AEP  
 Checked By: JWJL  
 Sheet Title: FOUNDATION DETAILS

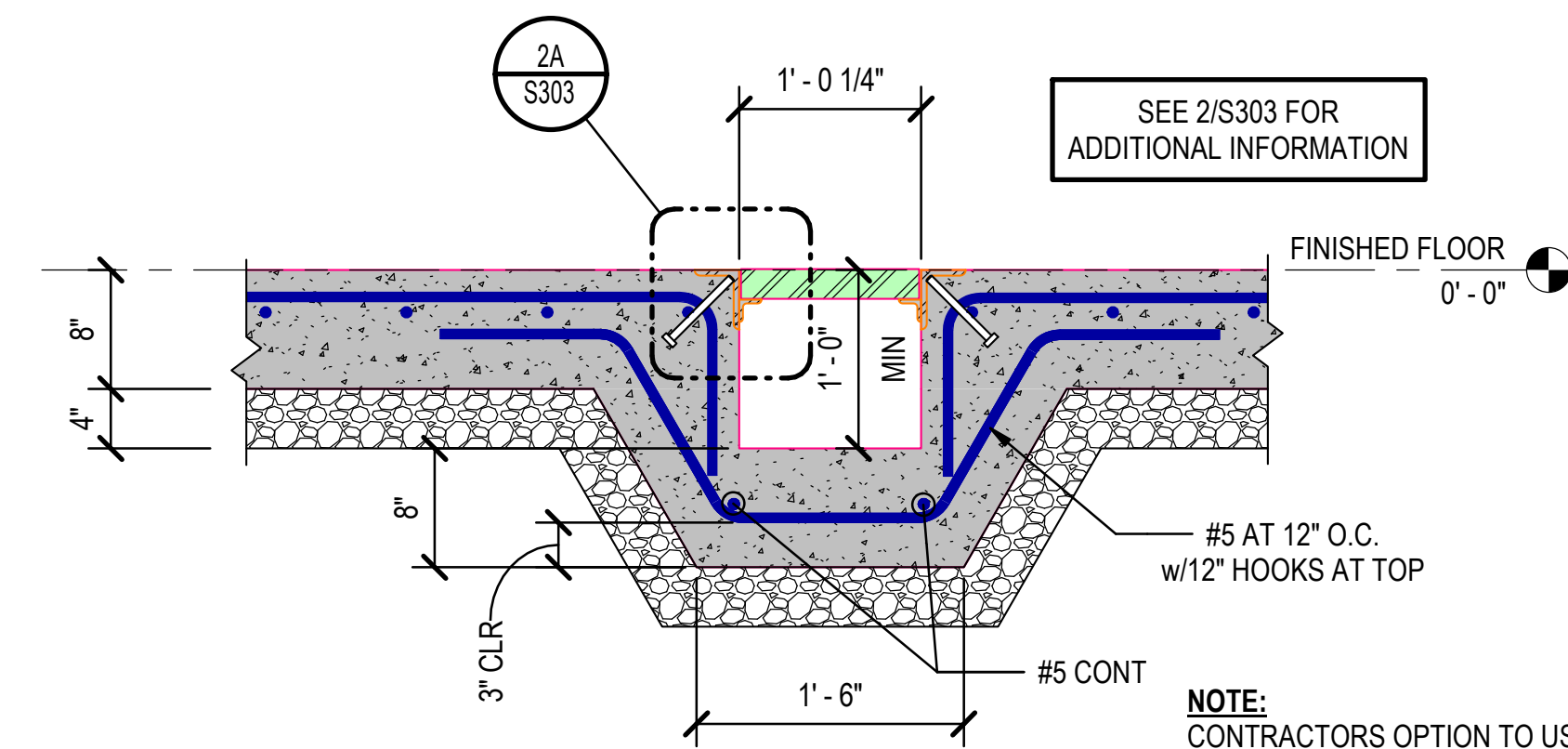




1 FOUNDATION DETAIL  
3/4" = 1'-0"



2 FOUNDATION DETAIL  
3/4" = 1'-0"



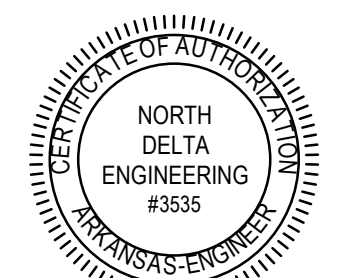
3 FOUNDATION DETAIL AT TRENCH  
1" = 1'-0"

NOTE:  
CONTRACTORS OPTION TO USE PRE-  
MANUFACTURED TRENCH DRAIN, COORDINATE  
REQUIREMENTS WITH PLUMBING / ARCH

Rev.	Date	Revision Description

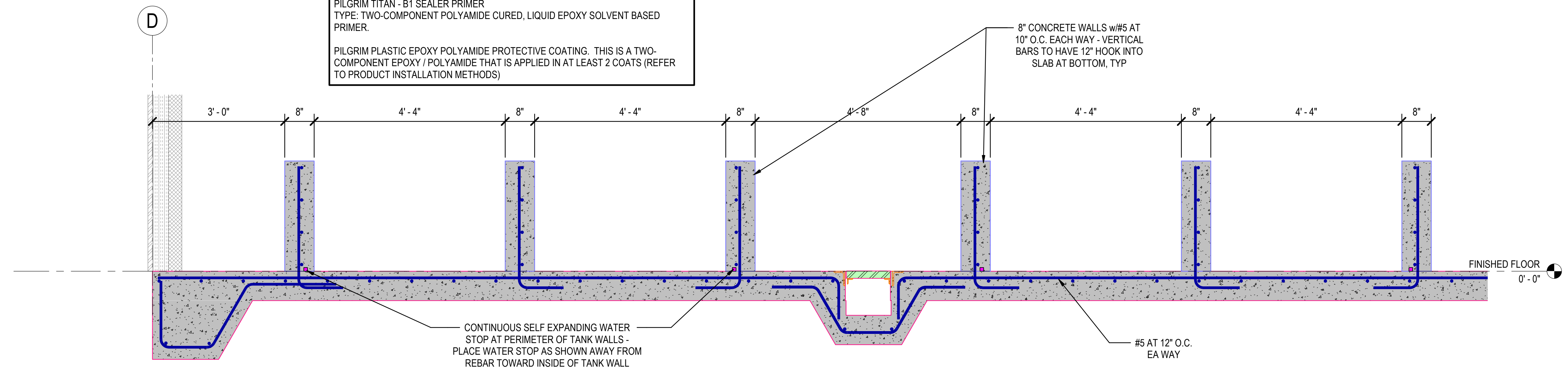
Seal  
STATE OF ARKANSAS  
REGISTERED PROFESSIONAL ENGINEER  
No. 12989  
JORDAN W. JANE  
12/20/2024

CONSTRUCTION DOCUMENTS - 100% SET  
Issue Date: 12/20/2024  
Project No: ARKGAMEF.0003 WR  
Drawn By: AEP  
Checked By: JWJ  
Sheet Title: FOUNDATION DETAILS

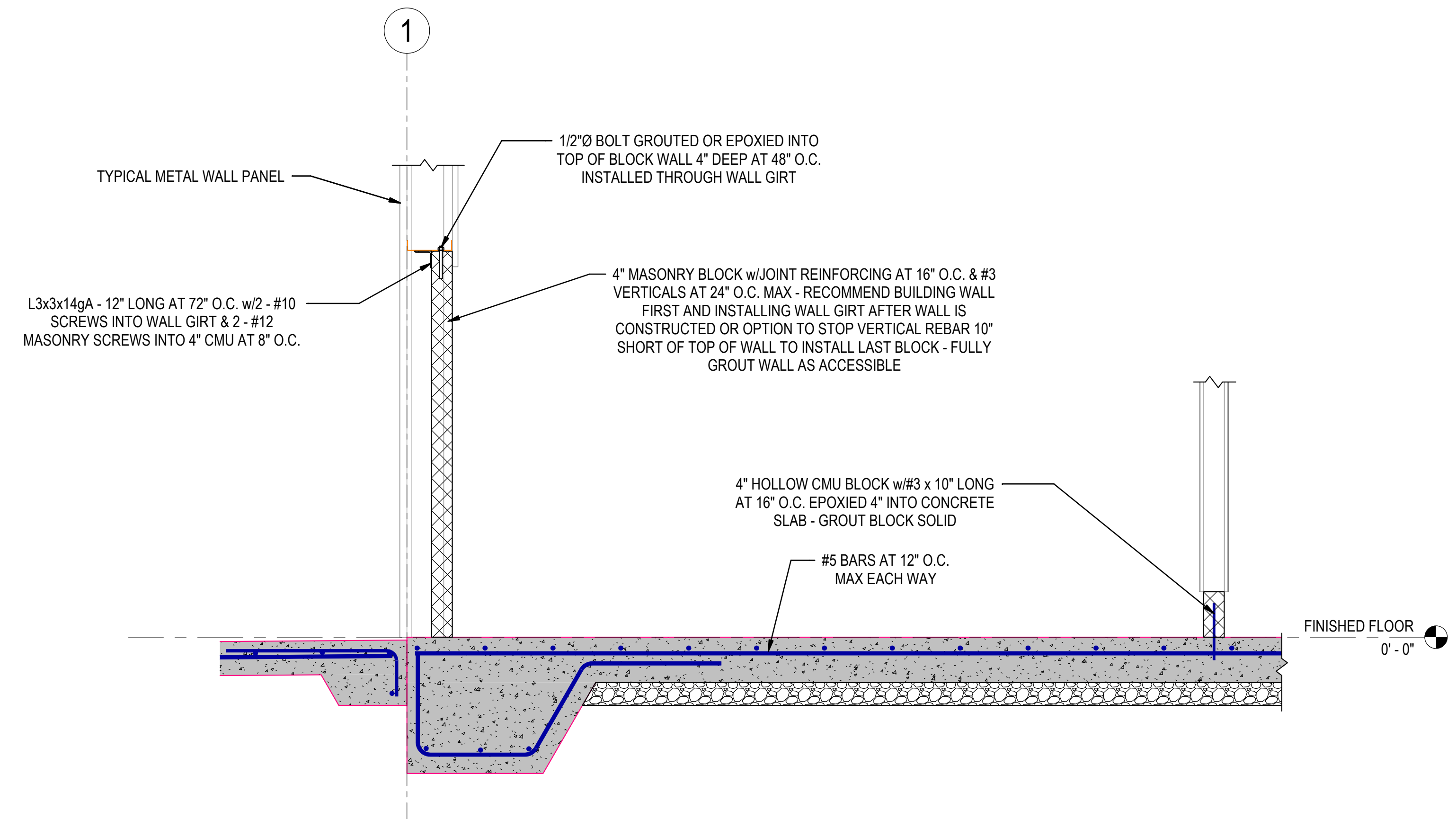


**NOTE:**  
 ALL CONCRETE FISH HOLDING TANKS ARE TO HAVE THE FOLLOWING PRIMER AND EPOXY COATING (INCLUDES FLOOR AND FULL HEIGHT OF ALL WALLS)  
 PILGRIM TITAN - B1 SEALER PRIMER  
 TYPE: TWO-COMPONENT POLYAMIDE CURED, LIQUID EPOXY SOLVENT BASED PRIMER.  
 PILGRIM PLASTIC EPOXY POLYAMIDE PROTECTIVE COATING. THIS IS A TWO-COMPONENT EPOXY / POLYAMIDE THAT IS APPLIED IN AT LEAST 2 COATS (REFER TO PRODUCT INSTALLATION METHODS)

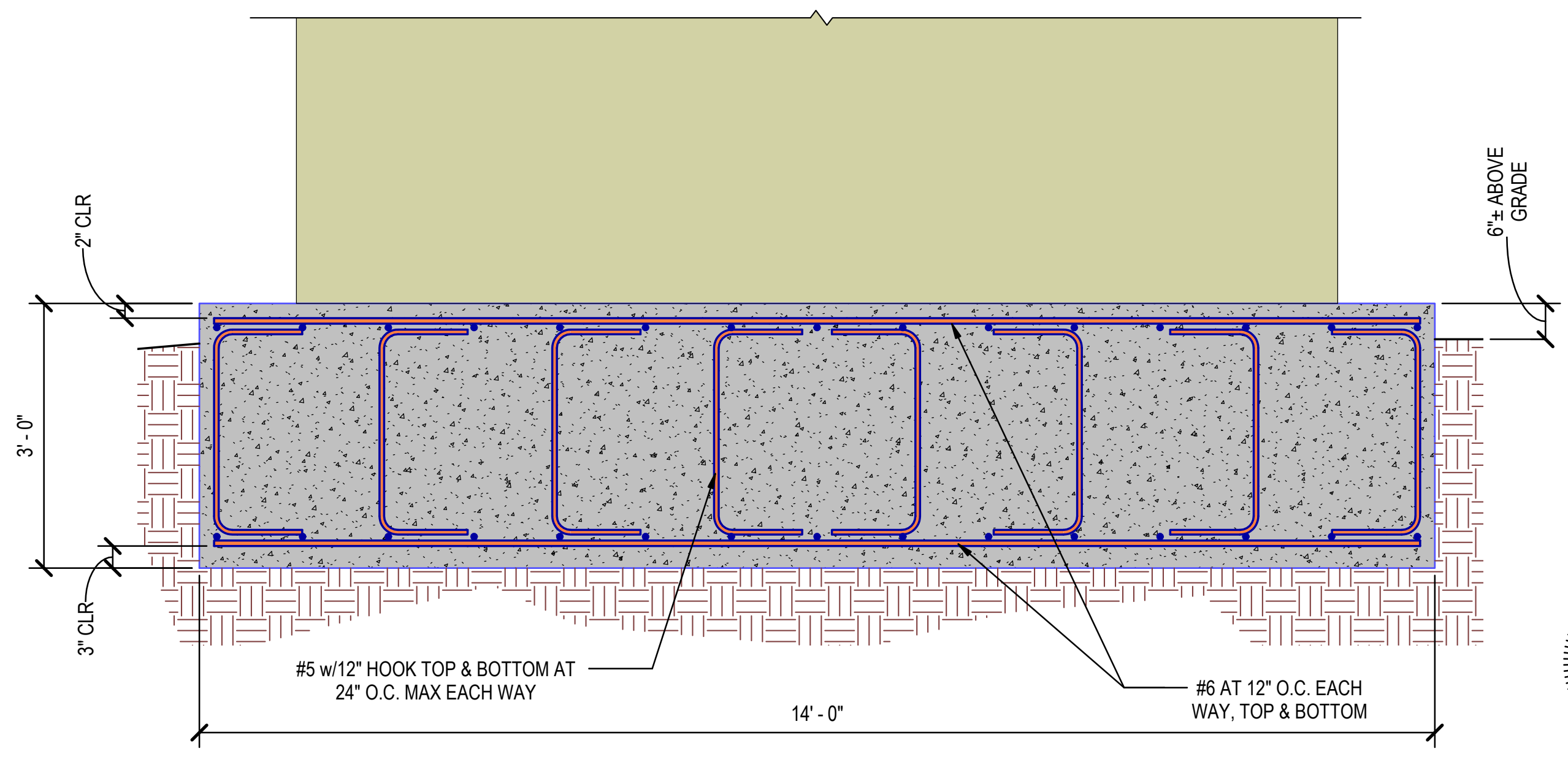
**NOTE:**  
 PROVIDE #5 - 24"x24" CORNER BARS, TYPICAL AT ALL CONCRETE STRUCTURES



**1 FOUNDATION SECTION THROUGH SHAD TANKS**  
 3/4" = 1'-0"



**2 FOUNDATION DETAIL**  
 3/4" = 1'-0"

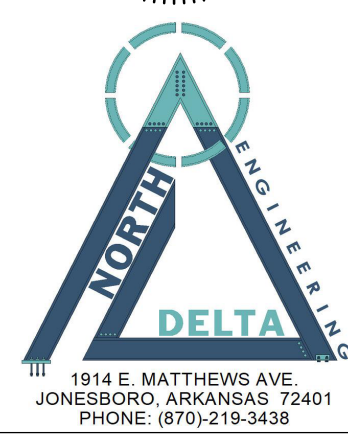
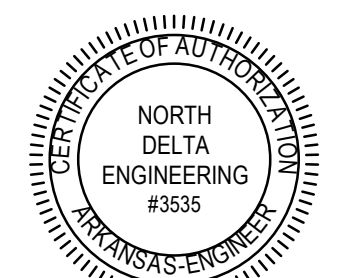


**3 SECTION THROUGH EXTERIOR TANK FOUNDATION**  
 3/4" = 1'-0"

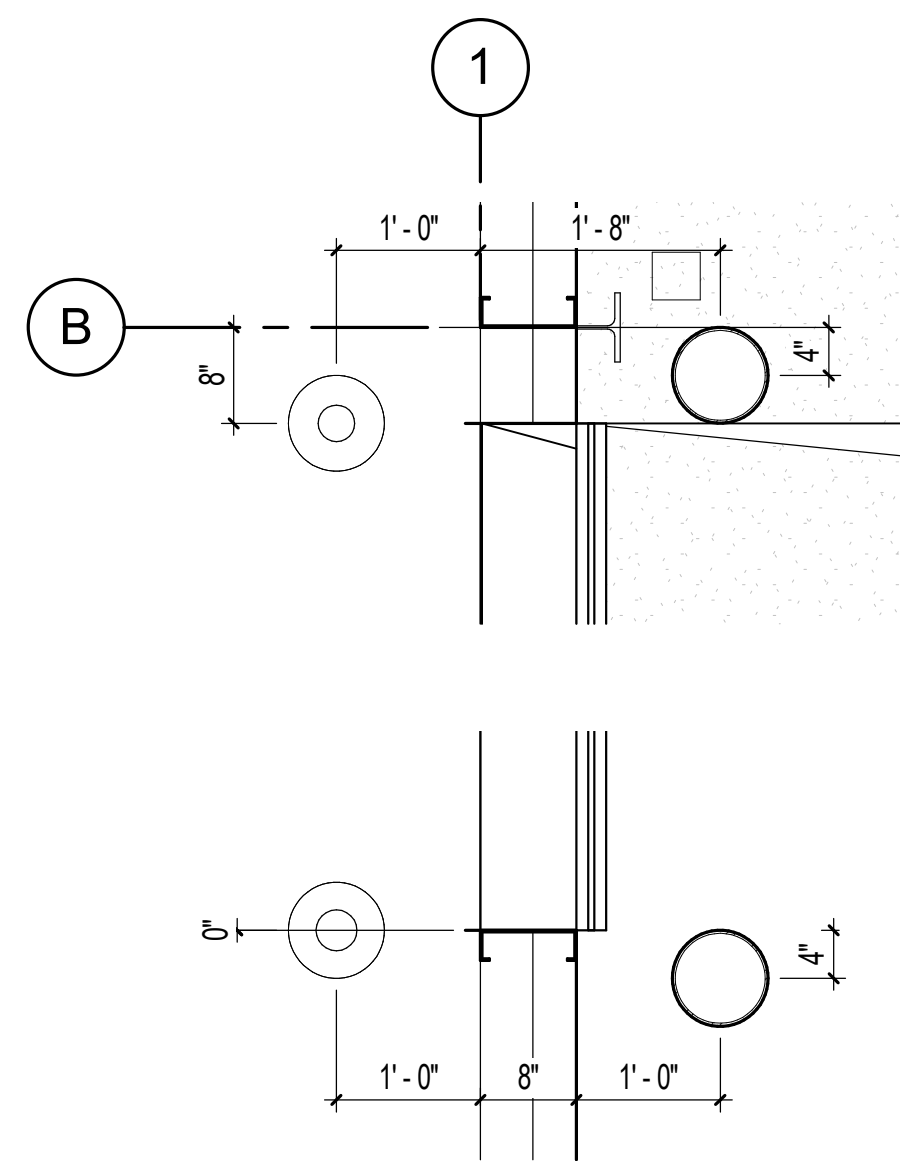
Rev.	Date	Revision Description

Seal

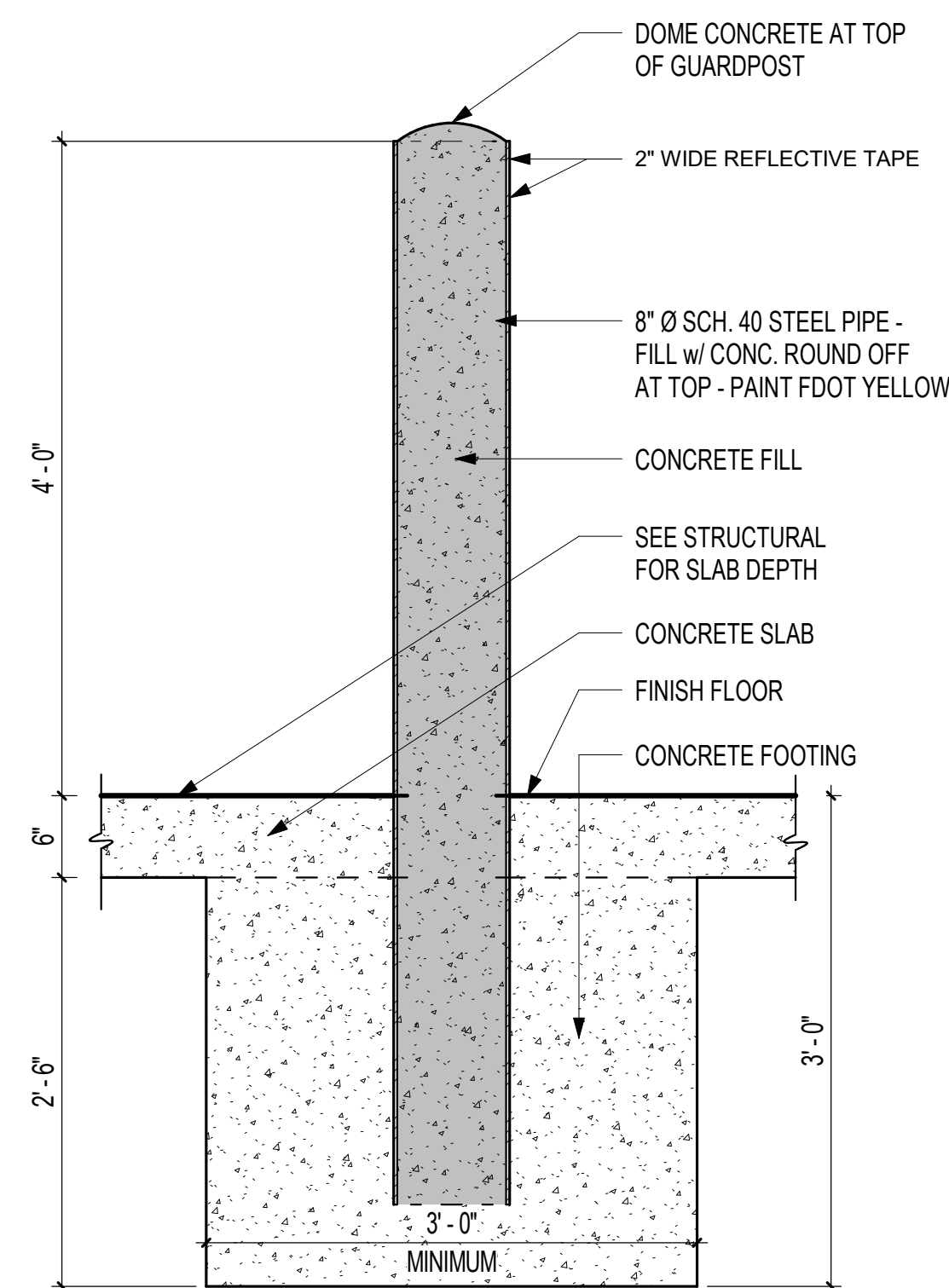
12/20/2024  
 CONSTRUCTION DOCUMENTS - 100% SET  
 Issue Date: 12/20/2024  
 Project No: ARKGAMEF.0003 WR  
 Drawn By: AEP  
 Checked By: JWJ  
 Sheet Title: FOUNDATION DETAILS



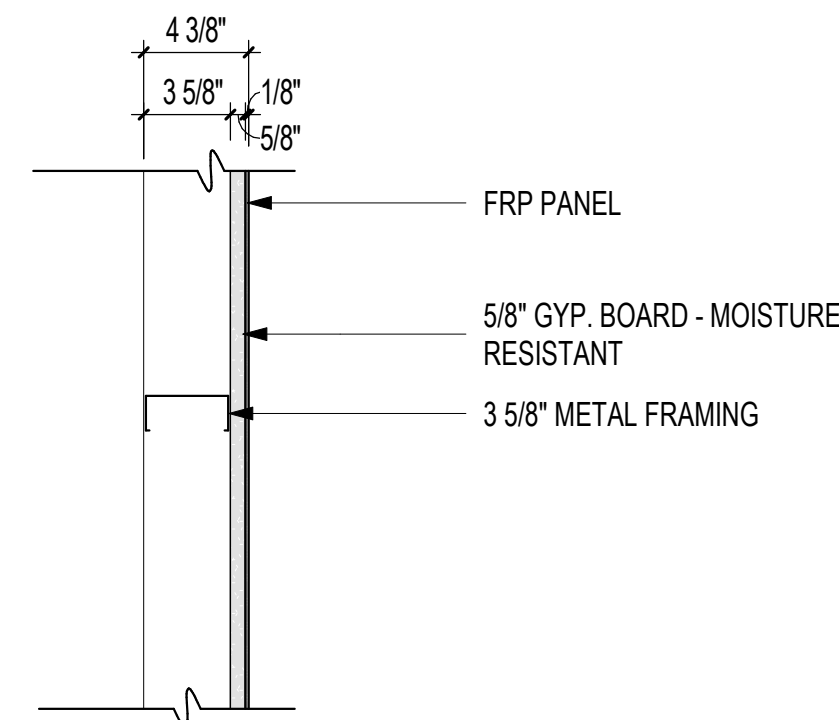




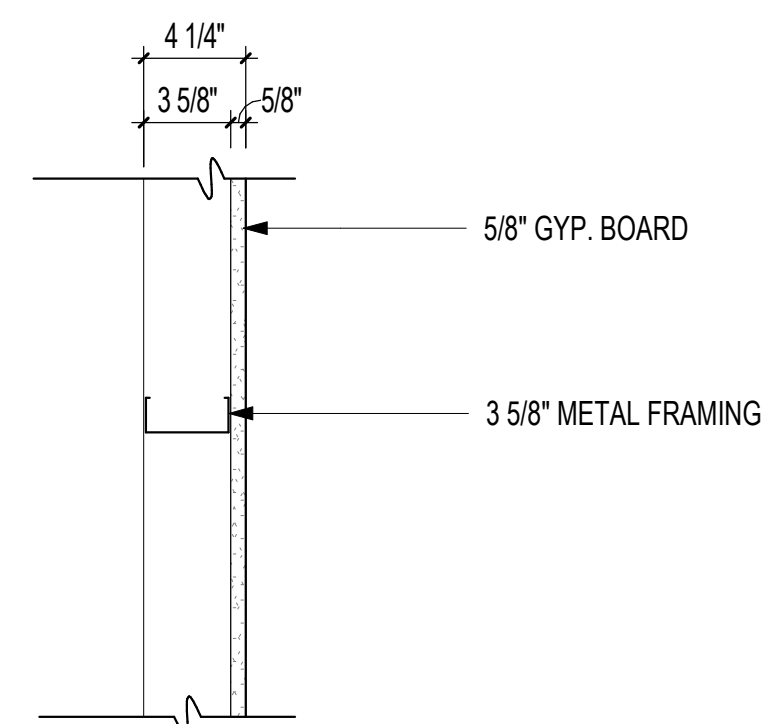
**2** TYPICAL BOLLARD PLAN  
3/4" = 1'-0"



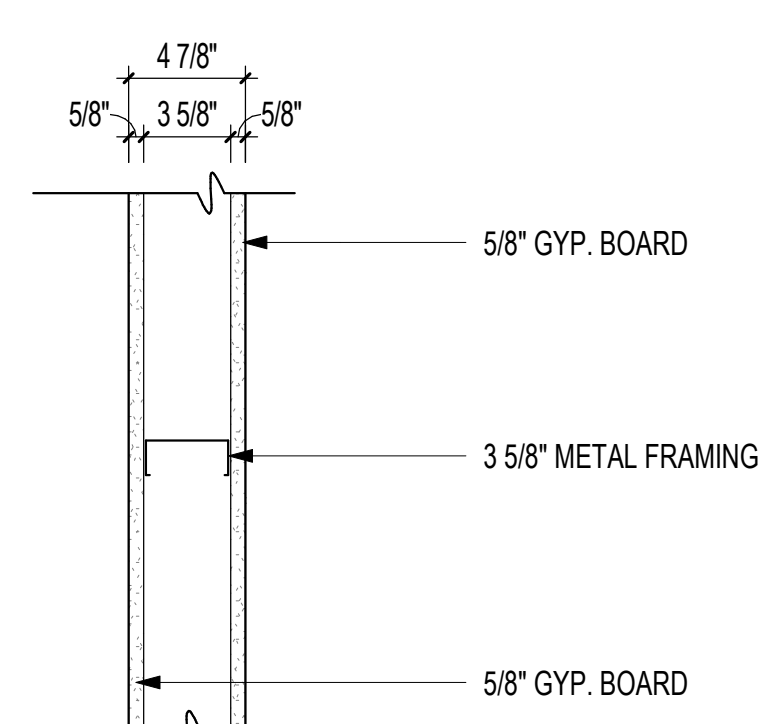
**1** TYPICAL BOLLARD DETAIL  
1" = 1'-0"



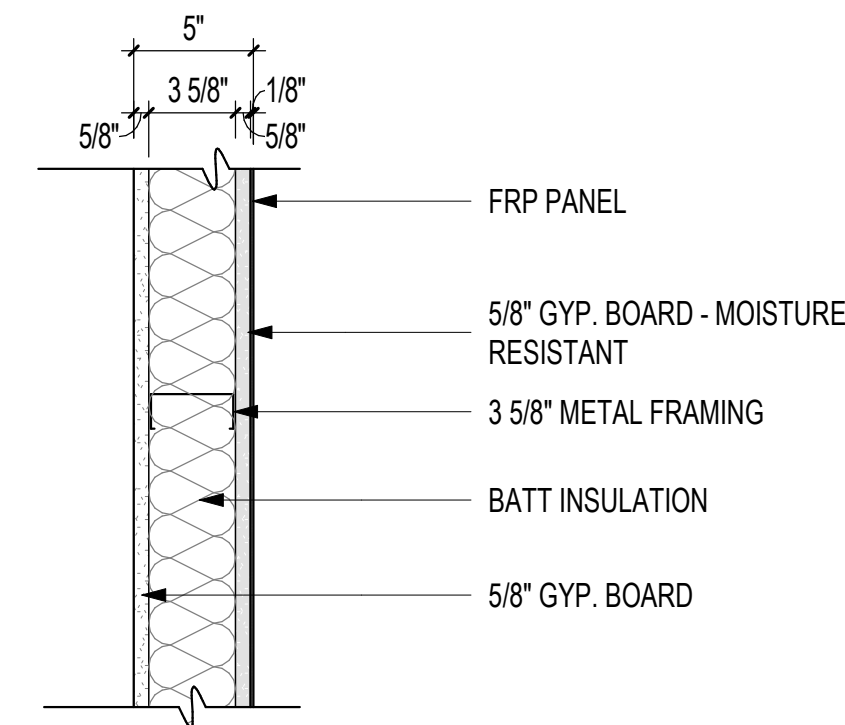
**IF2** IF-M3.6/MRG.6/FRP  
1 1/2" = 1'-0"



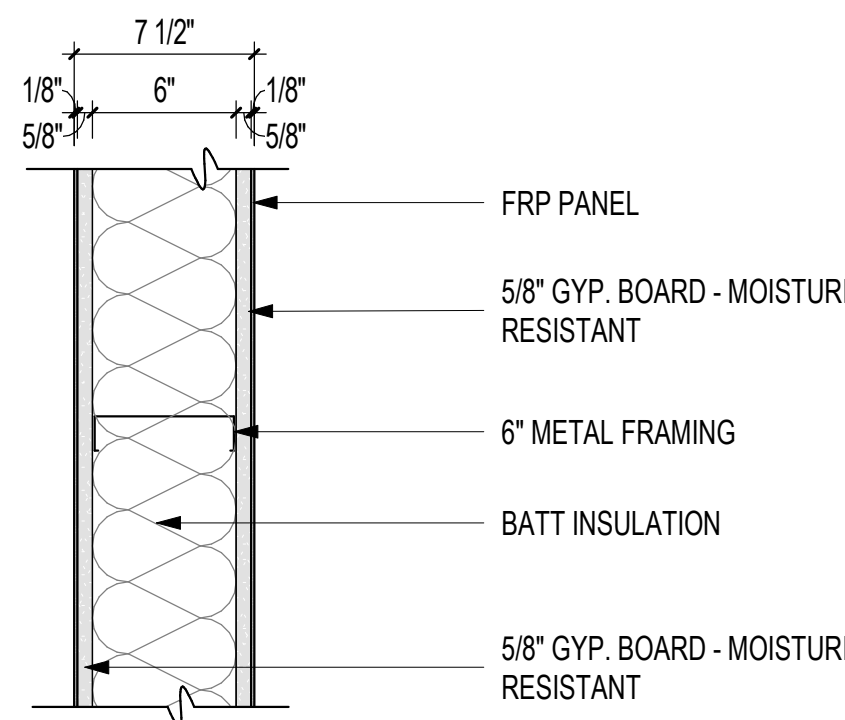
**IF1** IF-M3.6/G.6  
1 1/2" = 1'-0"



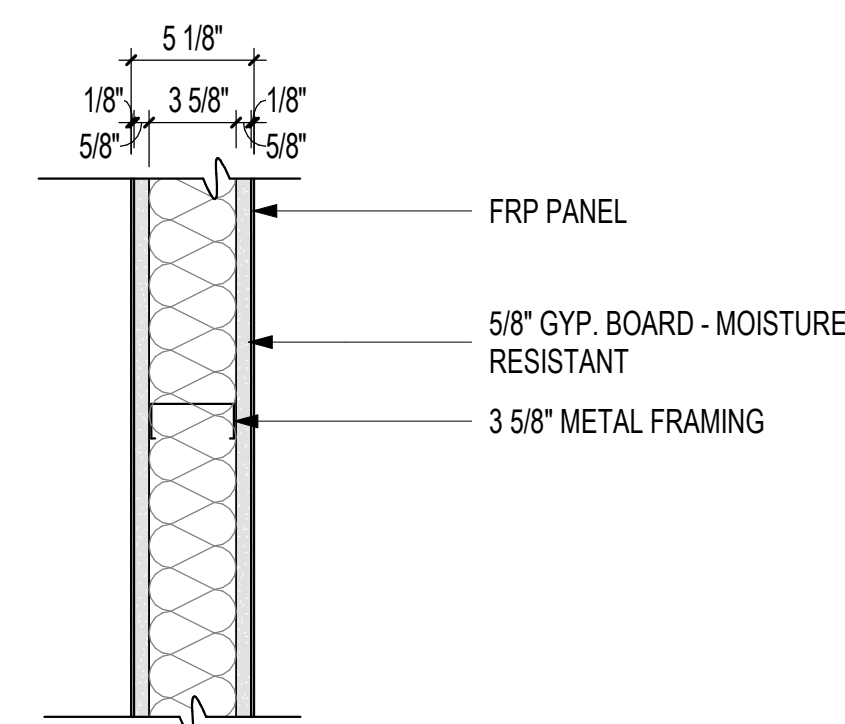
**IF5** I-M3.6/.6G.6  
1 1/2" = 1'-0"



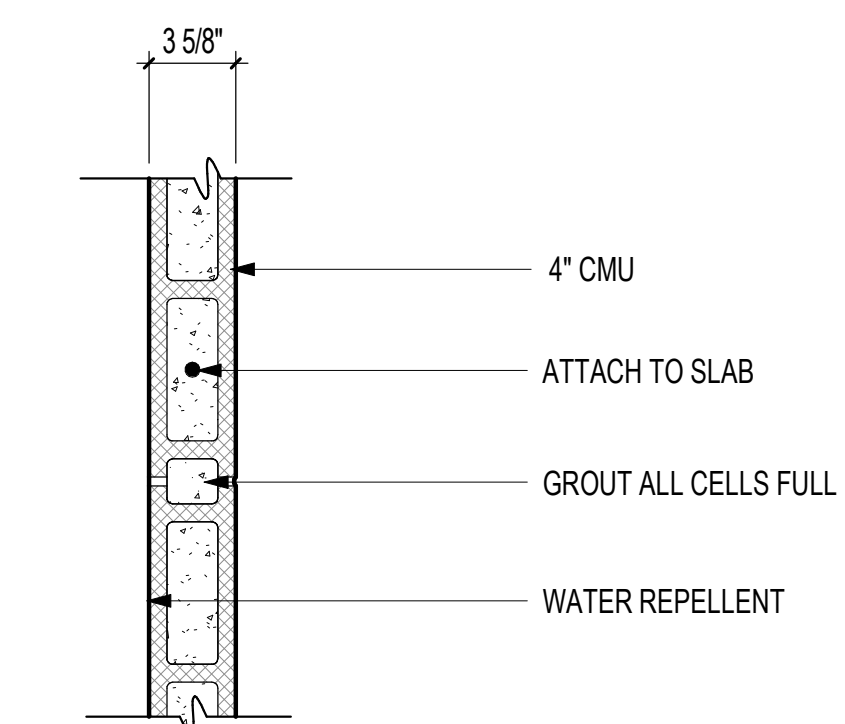
**I4** I-M3.6S/MRG.6/FRP/G.6  
1 1/2" = 1'-0"



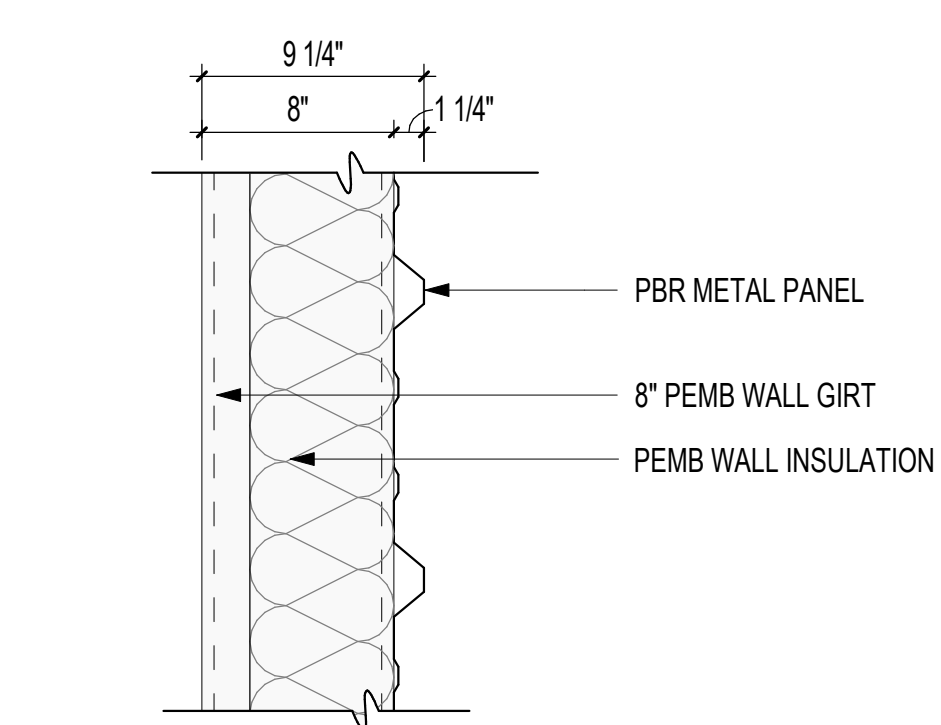
**I3** I-M6S/.6MRG.6/FRP  
1 1/2" = 1'-0"



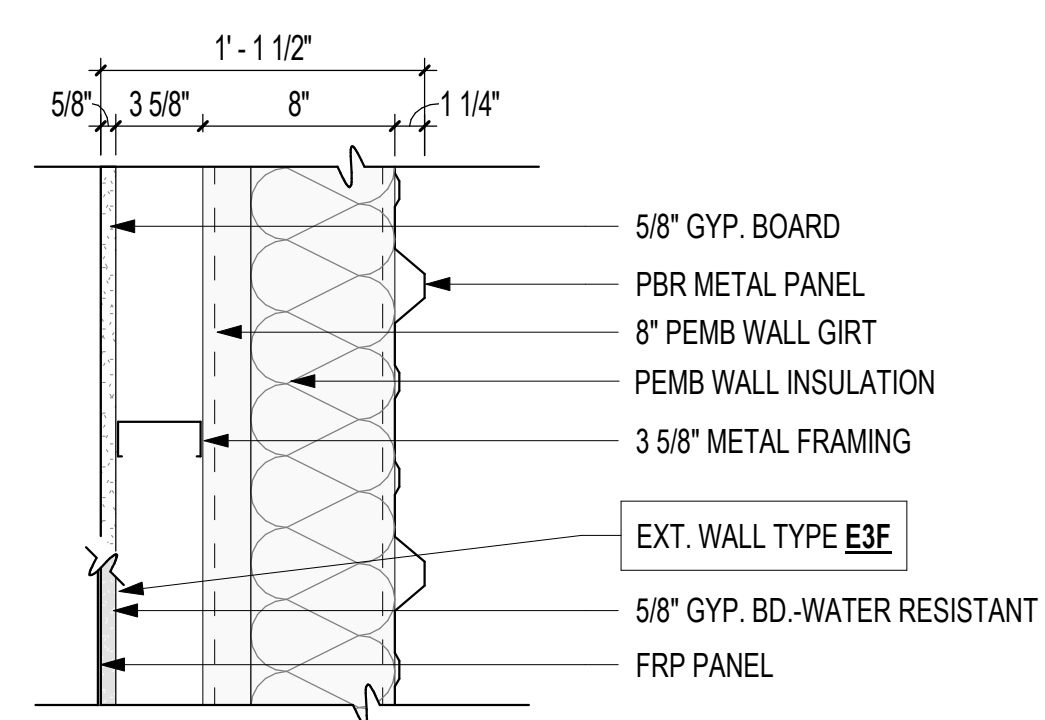
**I2** I-M3.6S/MRG.6/FRP\*2  
1 1/2" = 1'-0"



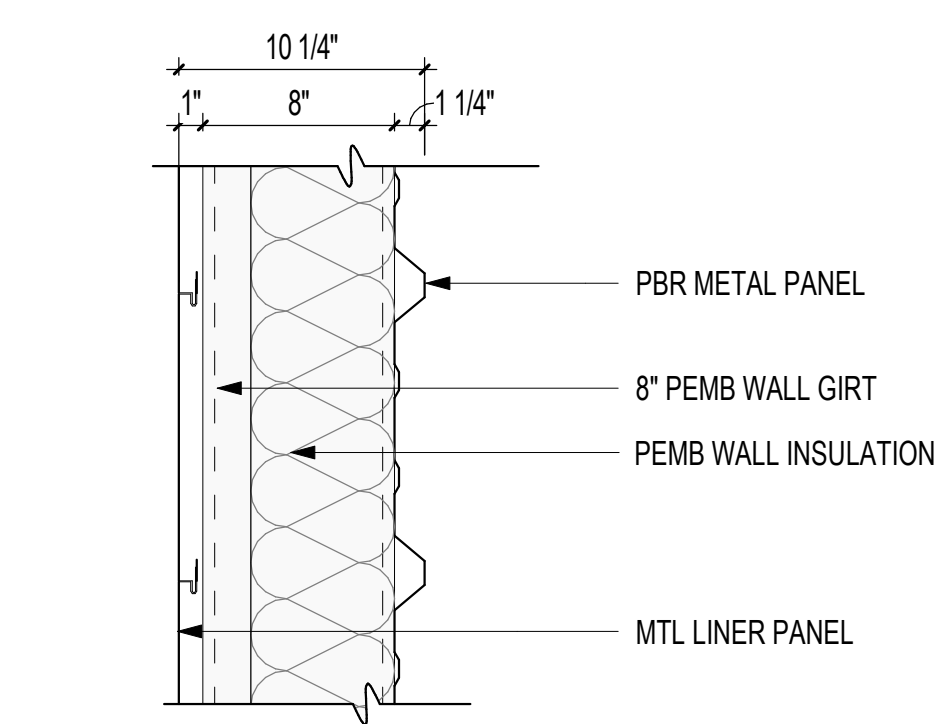
**I1** I-BL4  
1 1/2" = 1'-0"



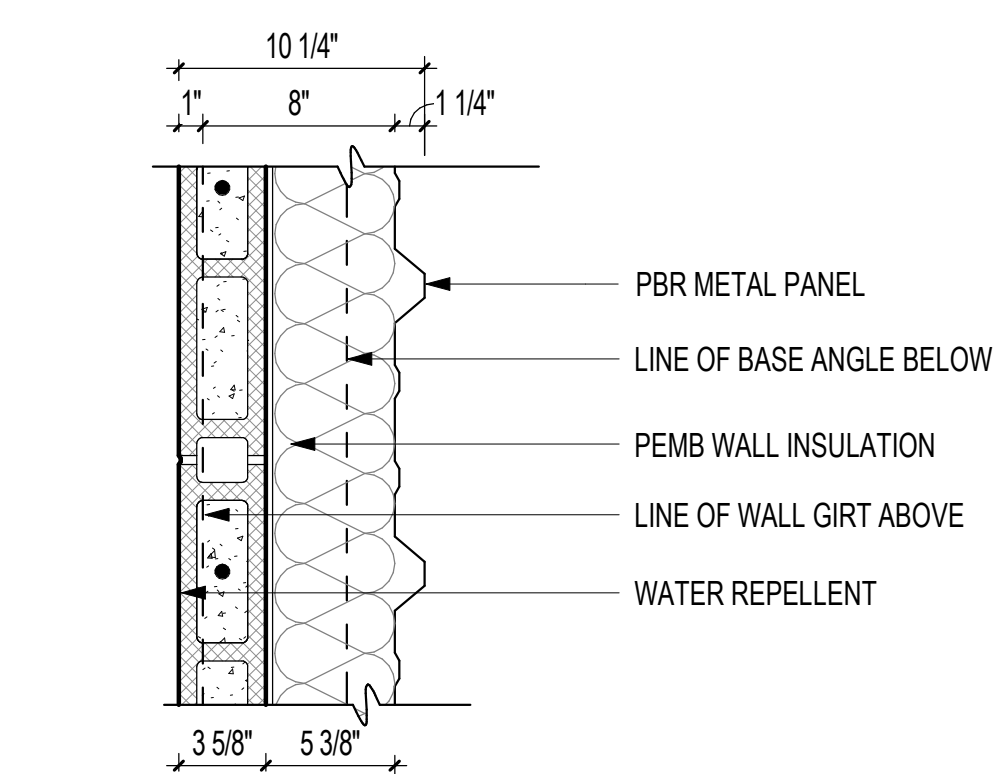
**E4** EXTERIOR WALL TYPE 4  
1 1/2" = 1'-0"



**E3** EXTERIOR WALL TYPE 3  
1 1/2" = 1'-0"



**E2** EXTERIOR WALL TYPE 2  
1 1/2" = 1'-0"



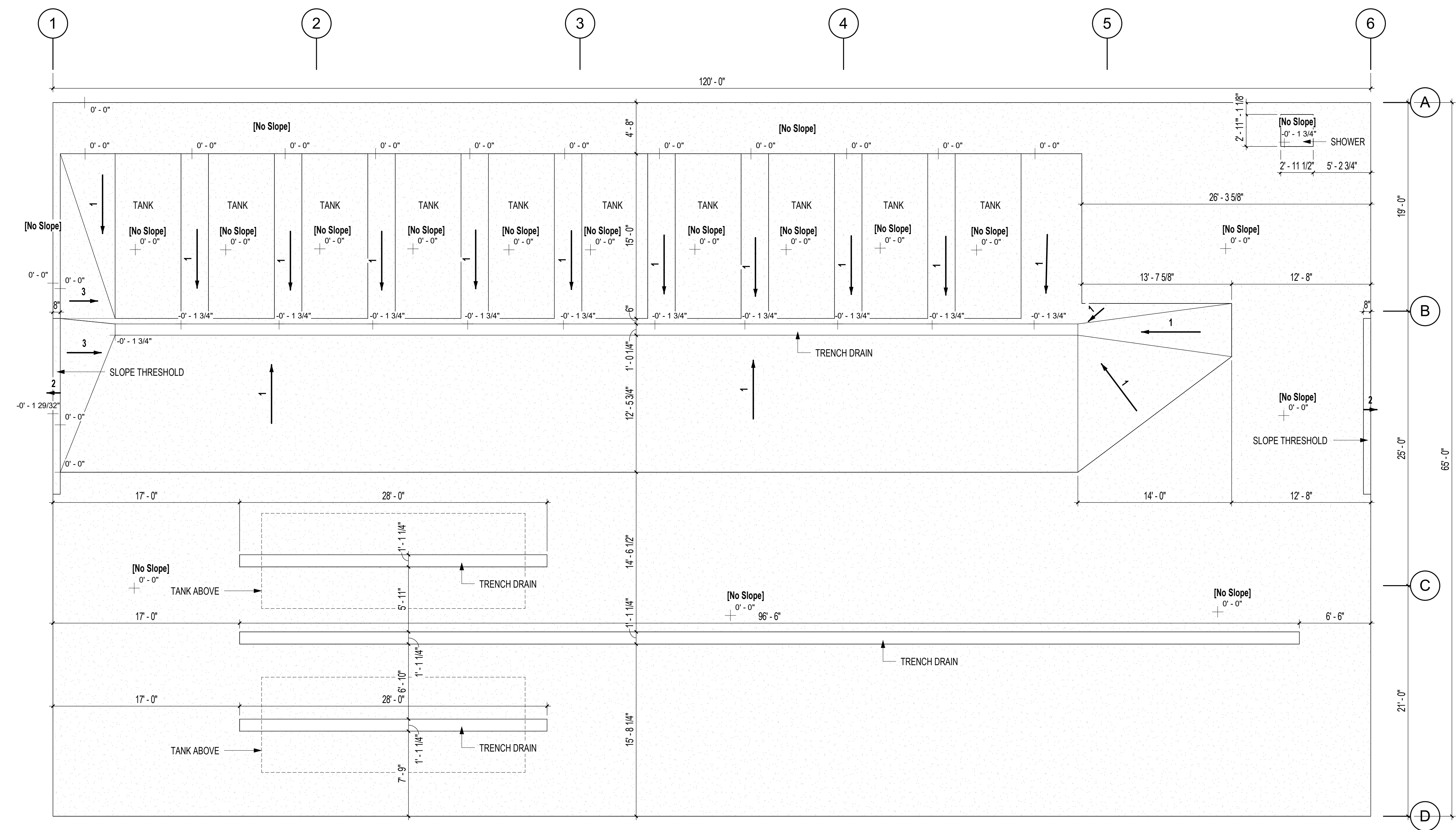
**E1** EXTERIOR WALL TYPE 1  
1 1/2" = 1'-0"

Rev.	Date	Revision Description

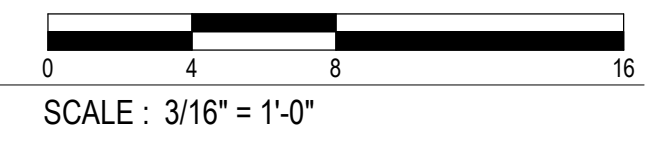


CONSTRUCTION DOCUMENTS - 100% SET  
Issue Date: 12/20/2024  
Project No: ARKGAMEF.0003 WFR  
Drawn By:  
Checked By:  
Sheet Title:  
WALL TYPES & PLAN DETAILS

- GENERAL NOTES - SLAB LAYOUT PLAN**
1. SLAB LAYOUT PLAN FOR INTENT ONLY. CONTRACTOR RESPONSIBLE FOR COORDINATING SLAB WITH ALL DRAWINGS TO ACCOMMODATE ALL TRADES.
  2. REFER TO STRUCTURAL, CIVIL, AND PLUMBING FOR TRENCH DRAIN INFORMATION AND DETAILS.
  3. FEATHER AND SLOPE SLAB AS REQUIRED TO HIT DRAIN ELEVATIONS.
  4. SLOPE ALL THRESHOLDS DOWN AWAY FROM FINISH FLOOR TO KEEP WATER FROM ENTERING FACILITY.



**1** SLAB LAYOUT PLAN  
3/16" = 1'-0"



**COOPER MIXON ARCHITECTS**  
505 Union Street, 2nd Fl. Jonesboro, AR 72401  
phone 870.336.6536 www.coopermixon.com

**FISHER ARNOLD**  
ENGINEERS | ARCHITECTS | CONSULTANTS | PLANNERS  
9180 Crestwyn Hills Drive | Memphis, Tennessee 38125-8538  
901.748.1811 | Fax: 901.748.3115 | www.fisherarnold.com

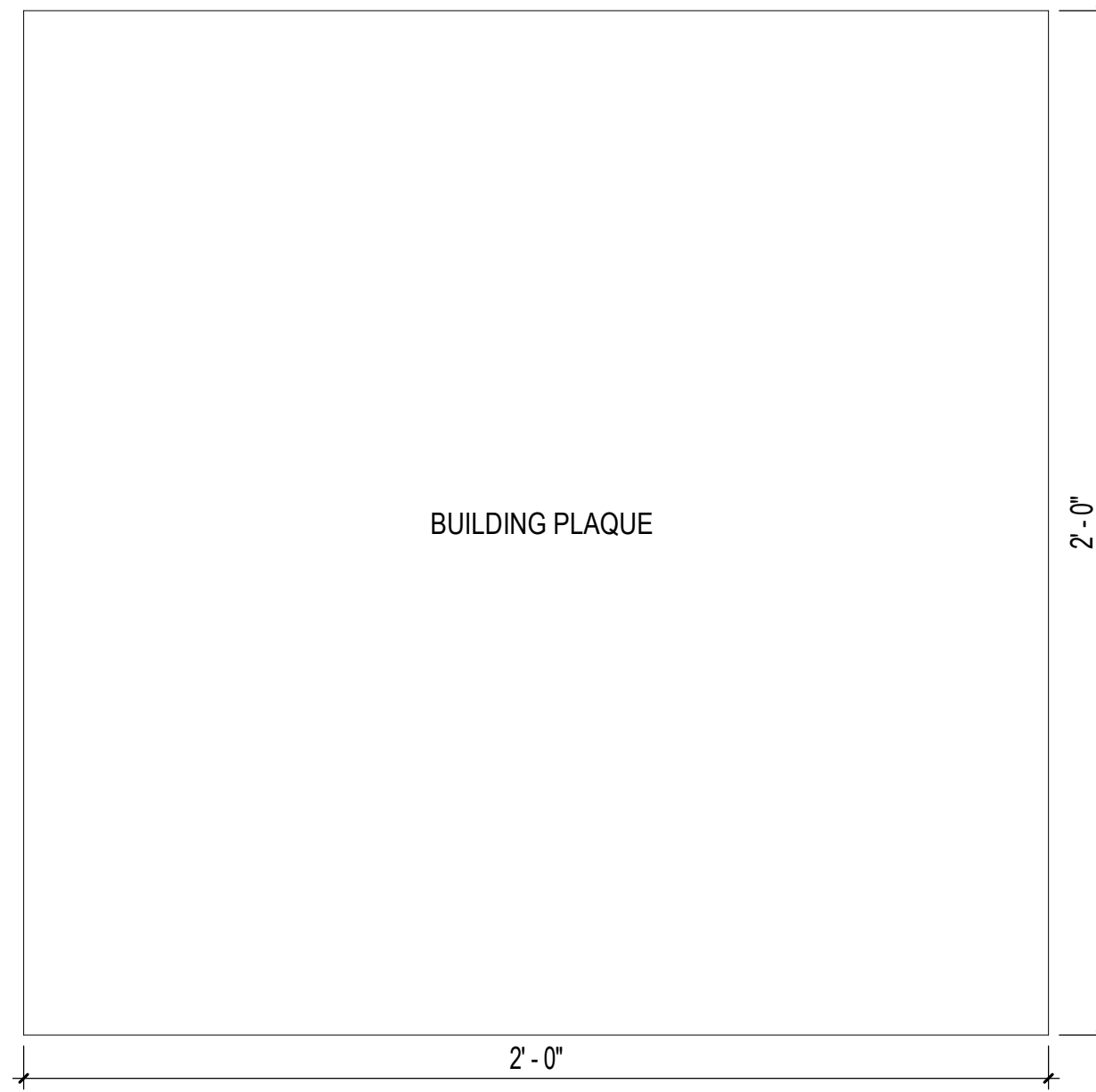
**SYSTEM UPGRADES AT CHARLIE CRAIG HATCHERY FOR ARKANSAS GAME & FISH**  
977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719

Rev.	Date	Revision Description

Seal  
  
 REGISTERED ARCHITECT  
 12/20/2024

**CONSTRUCTION DOCUMENTS - 100% SET**  
 Issue Date: 12/20/2024  
 Project No: ARKGAMEF.0003 WR  
 Drawn By:  
 Checked By:  
 Sheet Title:  
 SLAB LAYOUT PLAN

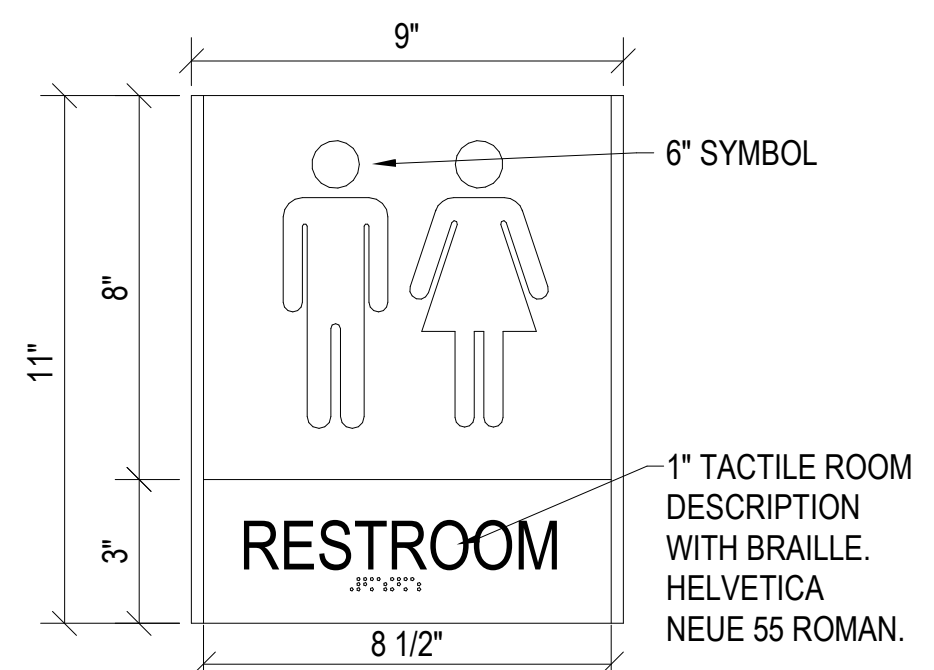
Sheet Number:  
**A-100**



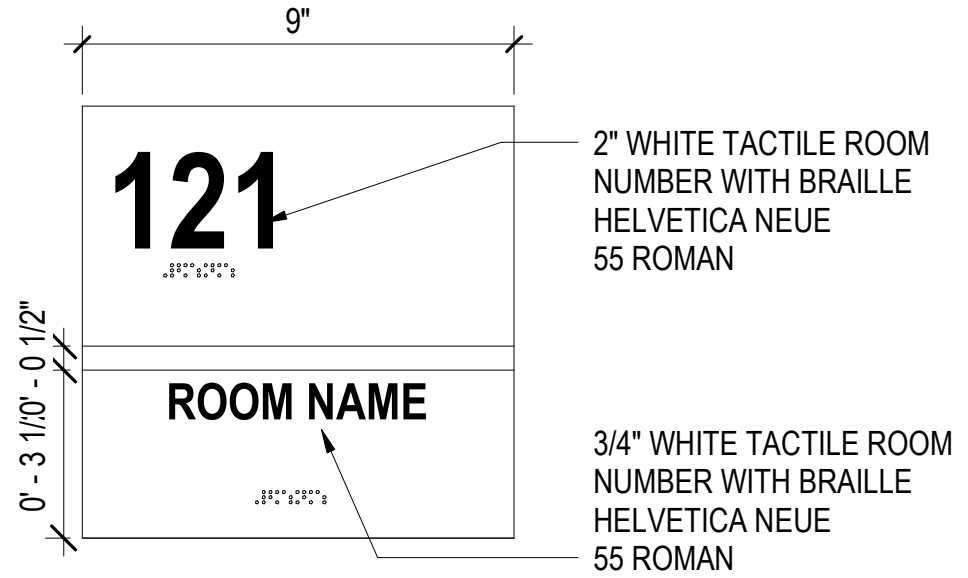
**4** SIGNAGE - PLAQUE  
3" = 1'-0"

ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS				CEILING	COMMENTS
				NORTH	EAST	SOUTH	WEST		
101	FISH HOLDING / HATCHERY	SEALED CONC.	NONE	MTL LINER PANEL / FRP	MTL LINER PANEL / FRP	MTL LINER PANEL / FRP	MTL LINER PANEL / FRP	SIMPLE SAVER INS. SYSTEM	FRP ON INTERIOR STUD WALLS
102	MUD ROOM	EPOXY	EPOXY	FRP	FRP	FRP	FRP	2x2 SUSP.	
103	OFFICE	EPOXY	EPOXY	PAINTED GYP	PAINTED GYP	PAINTED GYP	PAINTED GYP	2x2 SUSP.	
104	CLOSET	SEALED CONC.	RUBBER	PAINTED GYP	PAINTED GYP	PAINTED GYP	PAINTED GYP	2x2 SUSP.	
105	MECH	SEALED CONC.	RUBBER	PAINTED GYP	PAINTED GYP	PAINTED GYP	PAINTED GYP	NONE	
106	RESTROOM	EPOXY	EPOXY	FRP	FRP	FRP	FRP	2x2 SUSP.	
107	EQUIPMENT	SEALED CONC.	RUBBER	FRP	FRP	FRP	FRP	NONE	

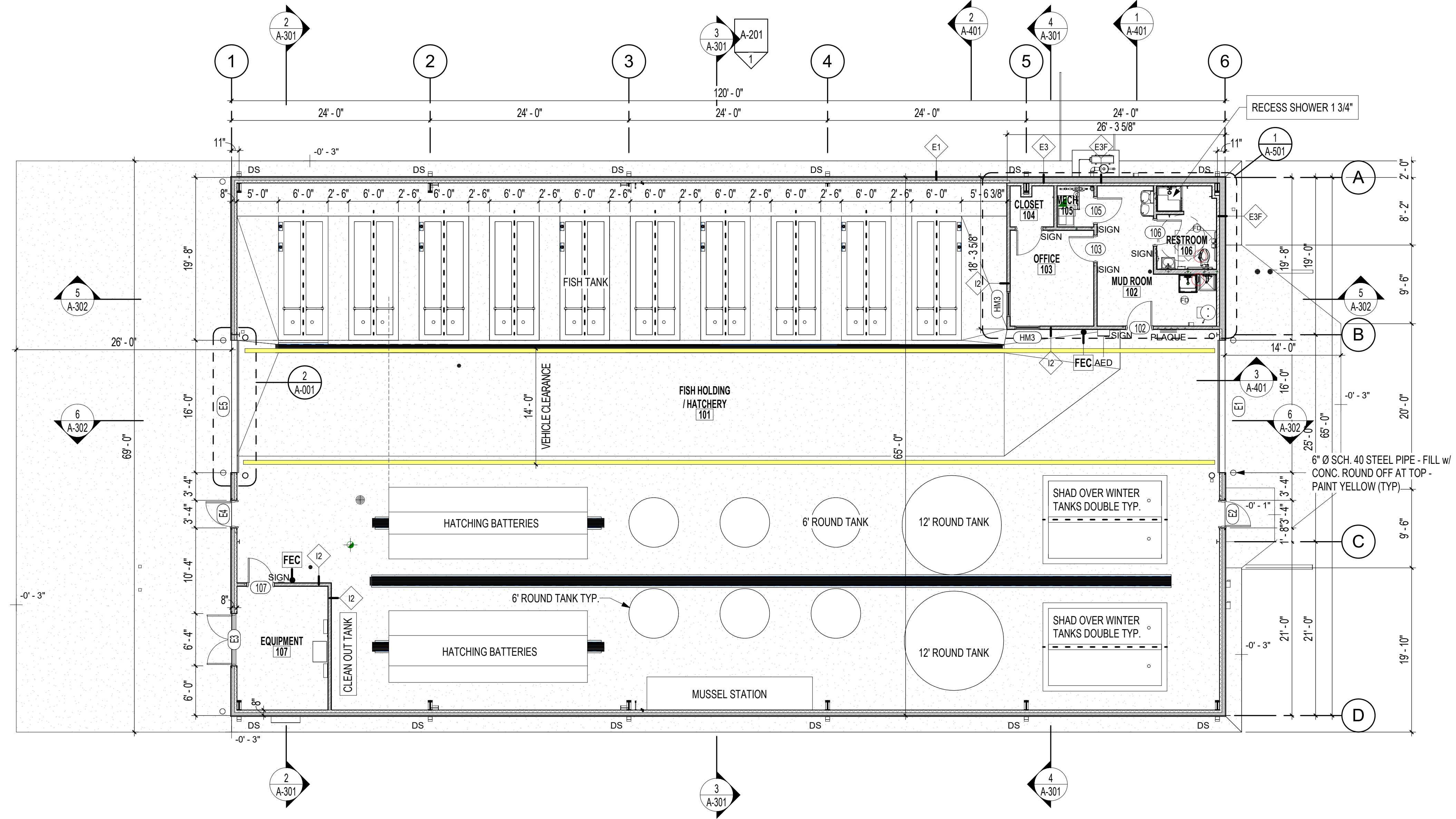
- GENERAL NOTES - FLOOR PLAN**
- ALL DOORS SHALL BE LOCATED 4" FROM ADJACENT WALL (DOOR FRAME SHALL BE 2" FROM ADJACENT WALL) U.N.O.
  - ALL DIMENSIONS ARE TO FACE STRUCTURE/FRAMING U.N.O.
  - GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL ARCHITECTURAL DRAWINGS WITH ARCHITECTURAL SCHEDULES.
  - PROVIDE CONTROL JOINTS IN GYP. BD. AT 30' MAXIMUM INTERVALS, OR WHEN APPROPRIATE.
  - FIELD VERIFY ALL DIMENSIONS LOCATED IN EXISTING CONSTRUCTION PRIOR TO PROCEEDING WITH ANY WORK



**3** SIGNAGE - RESTROOM UNISEX  
3" = 1'-0"



**2** SIGNAGE - ROOM SIGN  
3" = 1'-0"



**1** FLOOR PLAN  
1/8" = 1'-0"

Rev.	Date	Revision Description

Seal

CONSTRUCTION DOCUMENTS - 100% SET  
 Issue Date: 12/20/2024  
 Project No: ARKGAMEF.0003 WR  
 Drawn By:  
 Checked By:  
 Sheet Title:  
 FLOOR PLAN & FINISH SCHEDULE

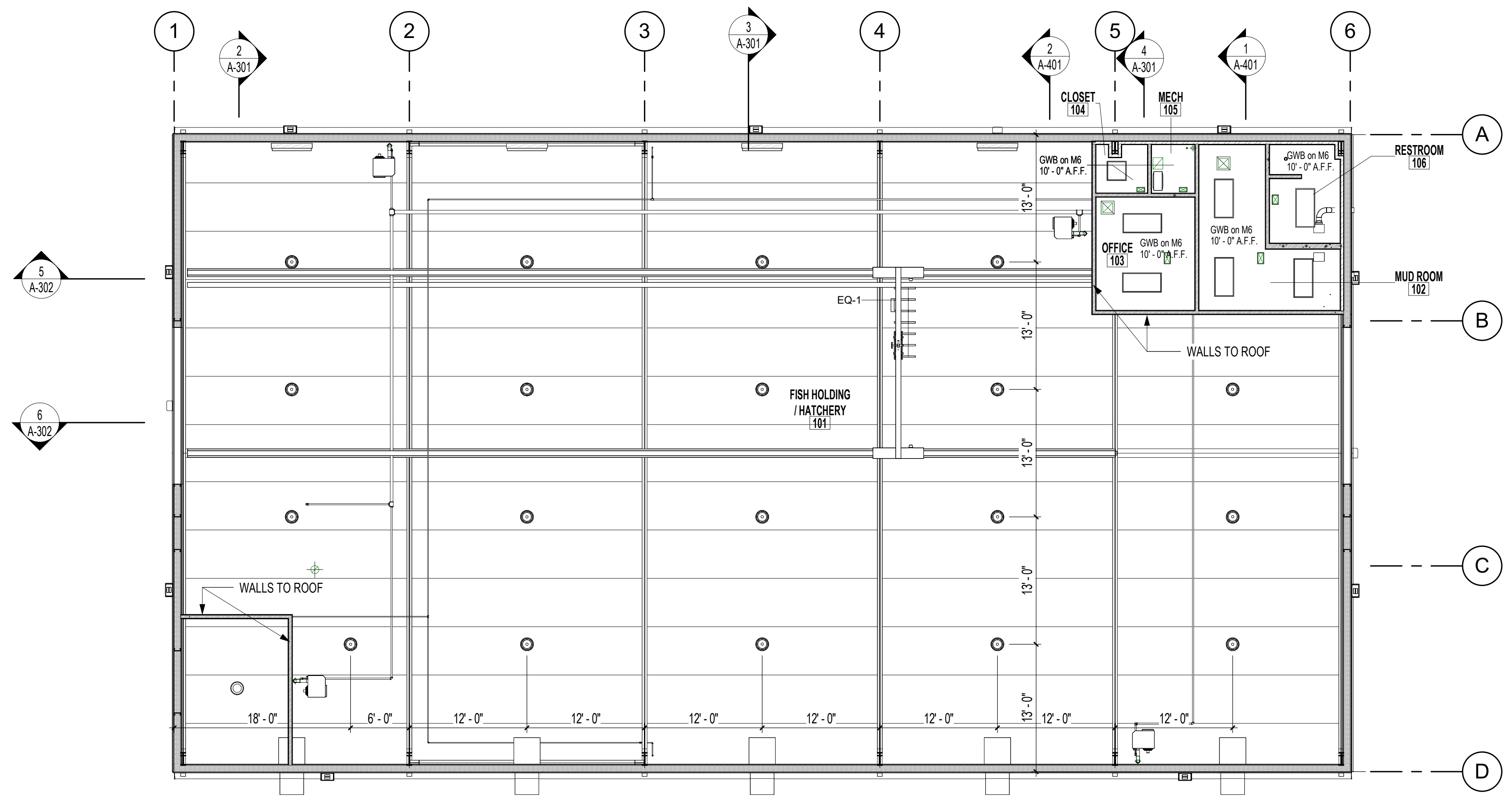
**GENERAL NOTES - REFLECTED CEILING PLAN**

- ALL CEILING HEIGHT NOTATIONS TAKEN FROM FINISHED FLOOR ELEVATION OF THIS LEVEL UNLESS NOTED OTHERWISE.
- ALL LAY-IN CEILING GRIDS SHALL BE CENTERED IN ROOM AS GRAPHICALLY SHOWN IN PLAN, UNLESS DIMENSIONED OTHERWISE.

**REFLECTED CEILING PLAN LEGEND**

	GYP. BD. CEILING		2x2 MOISTURE RESISTANT SUSP. CEILING
	2x FLAT PANEL 2x2		2x FLAT PANEL 2x4
	BAY LIGHT		WALL PACK LIGHT
	COMBINATION EXIT / EMERGENCY LIGHTS		

EQUIPMENT SCHEDULE	
#	DESCRIPTION
EQ-1	FUTURE UNDERHUNG BRIDGE CRANE (PEMB TO CARRY LOAD)

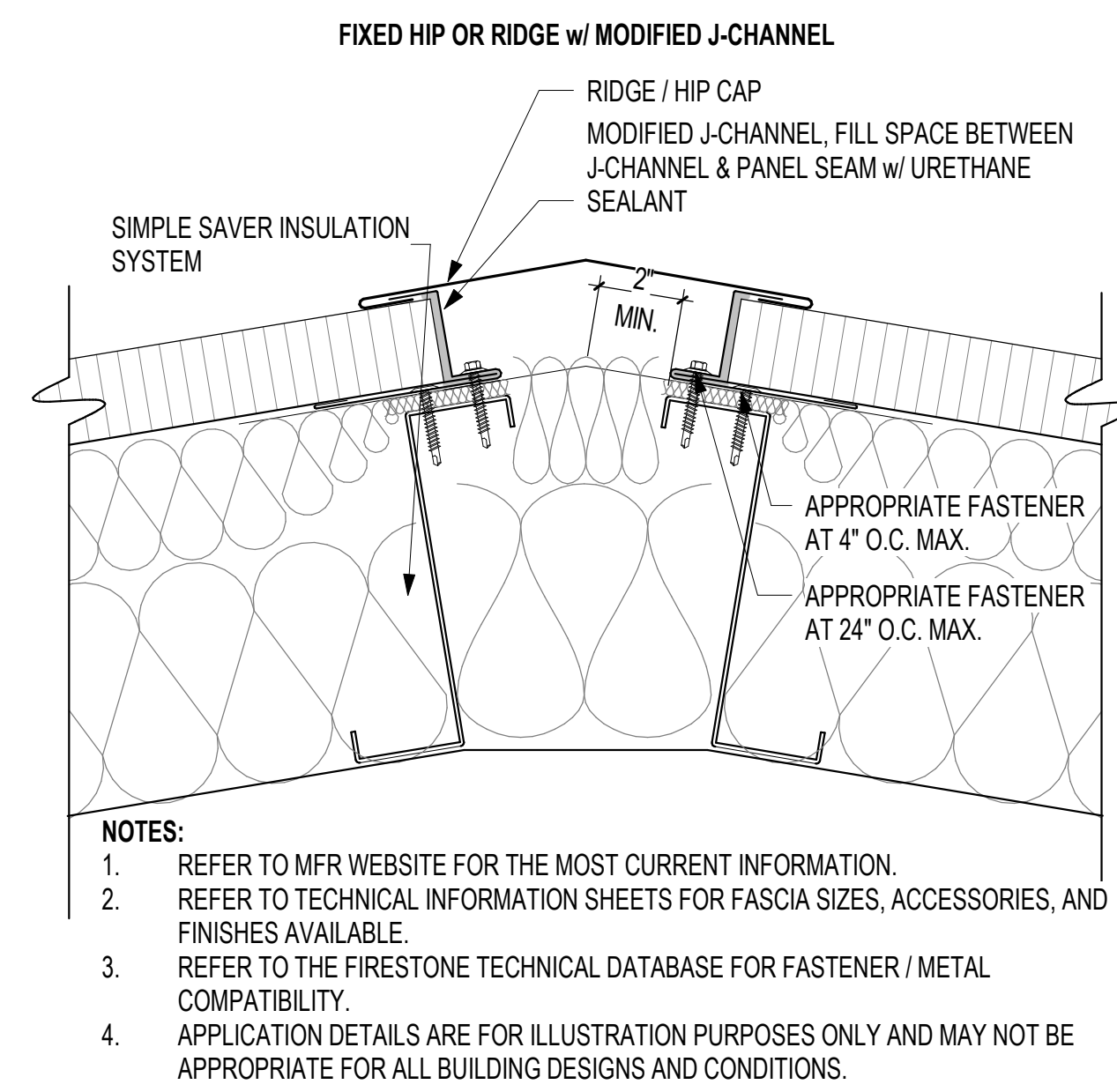


**1 REFLECTED CEILING PLAN**  
 1/8" = 1'-0"  
 SCALE: 1/8" = 1'-0"

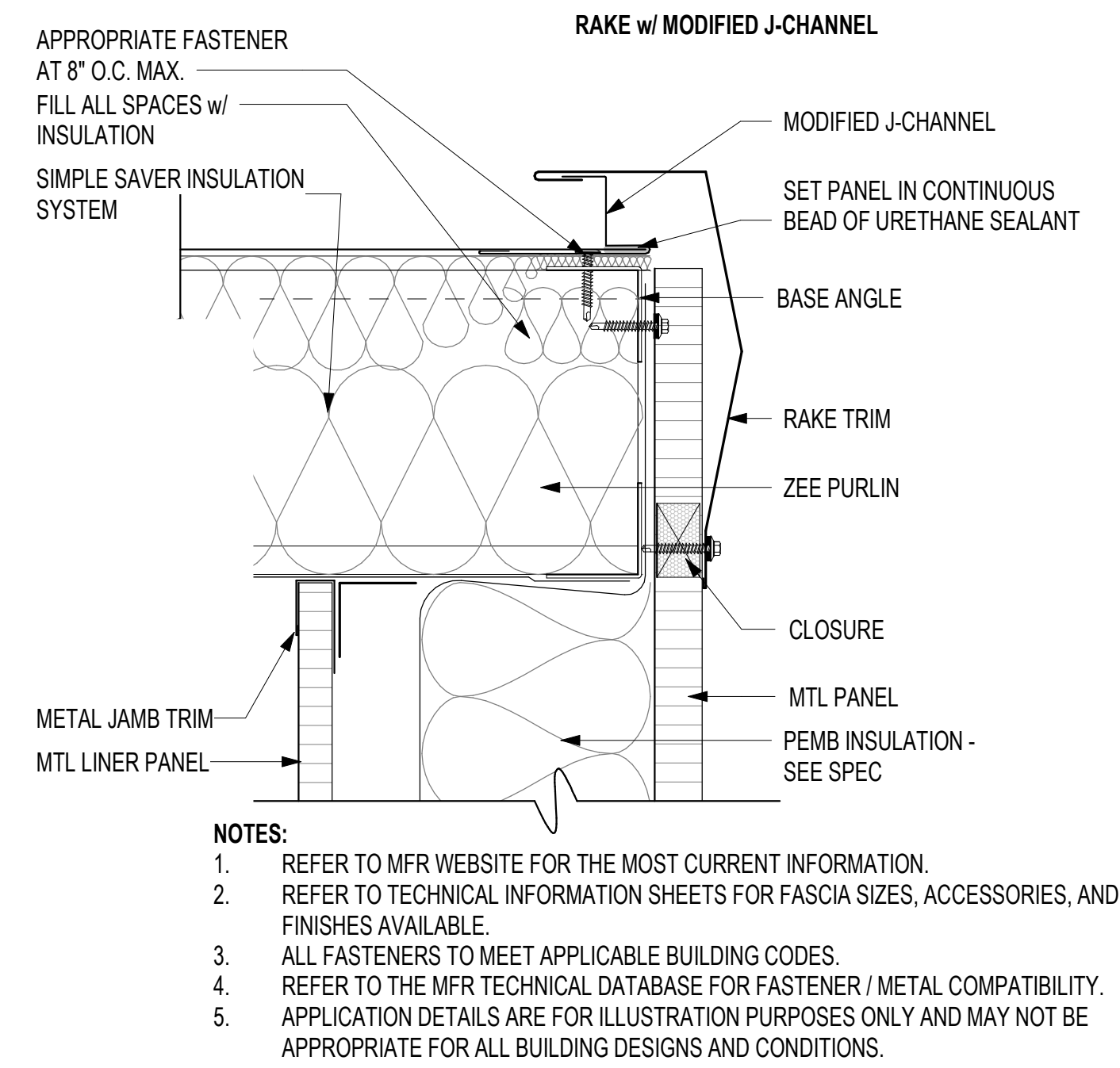
Rev.	Date	Revision Description

Seal  
 REGISTERED ARCHITECT  
 12/20/2024

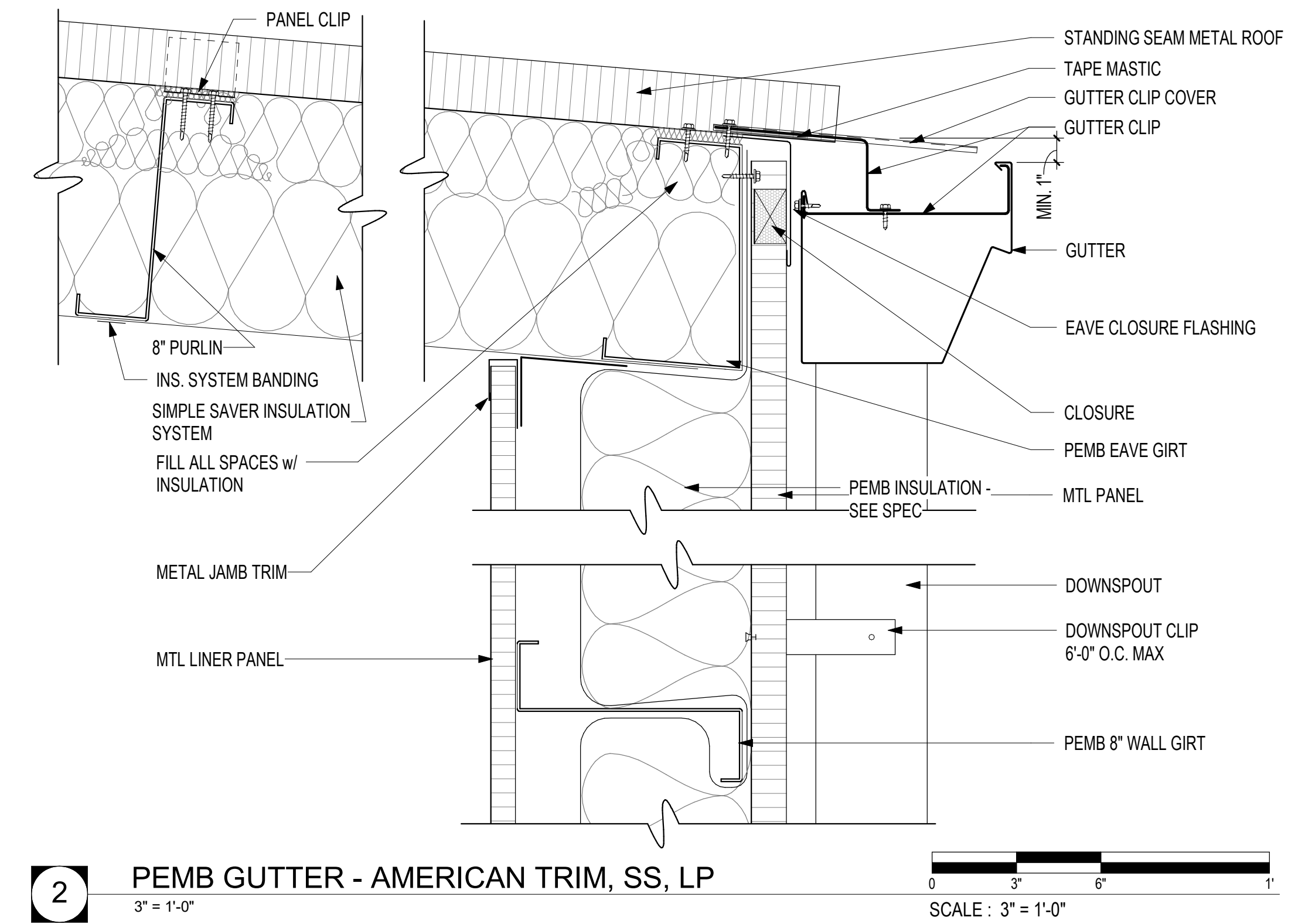
**CONSTRUCTION DOCUMENTS - 100% SET**  
 Issue Date: 12/20/2024  
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 Checked By:  
 Sheet Title:  
 REFLECTED CEILING PLAN



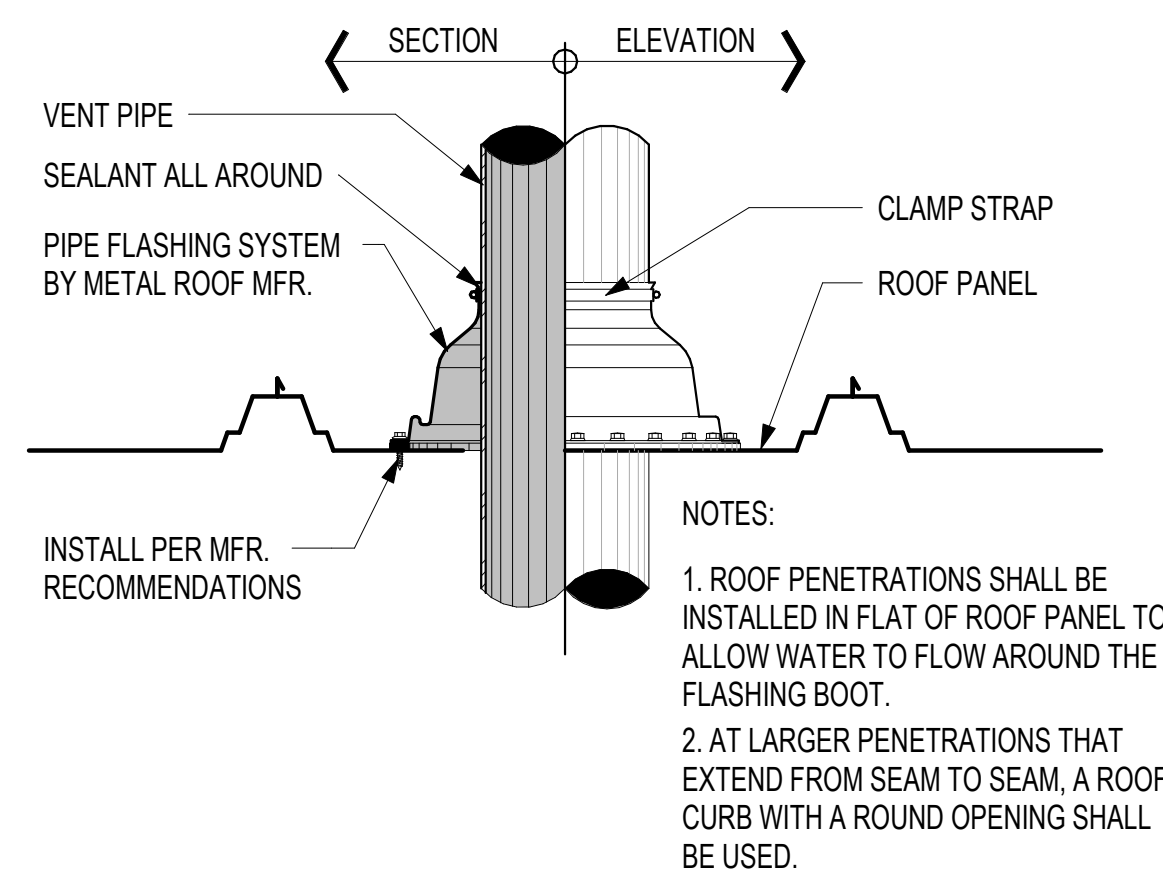
**4** PEMB METAL RIDGE DETAIL, SS  
3" = 1'-0"



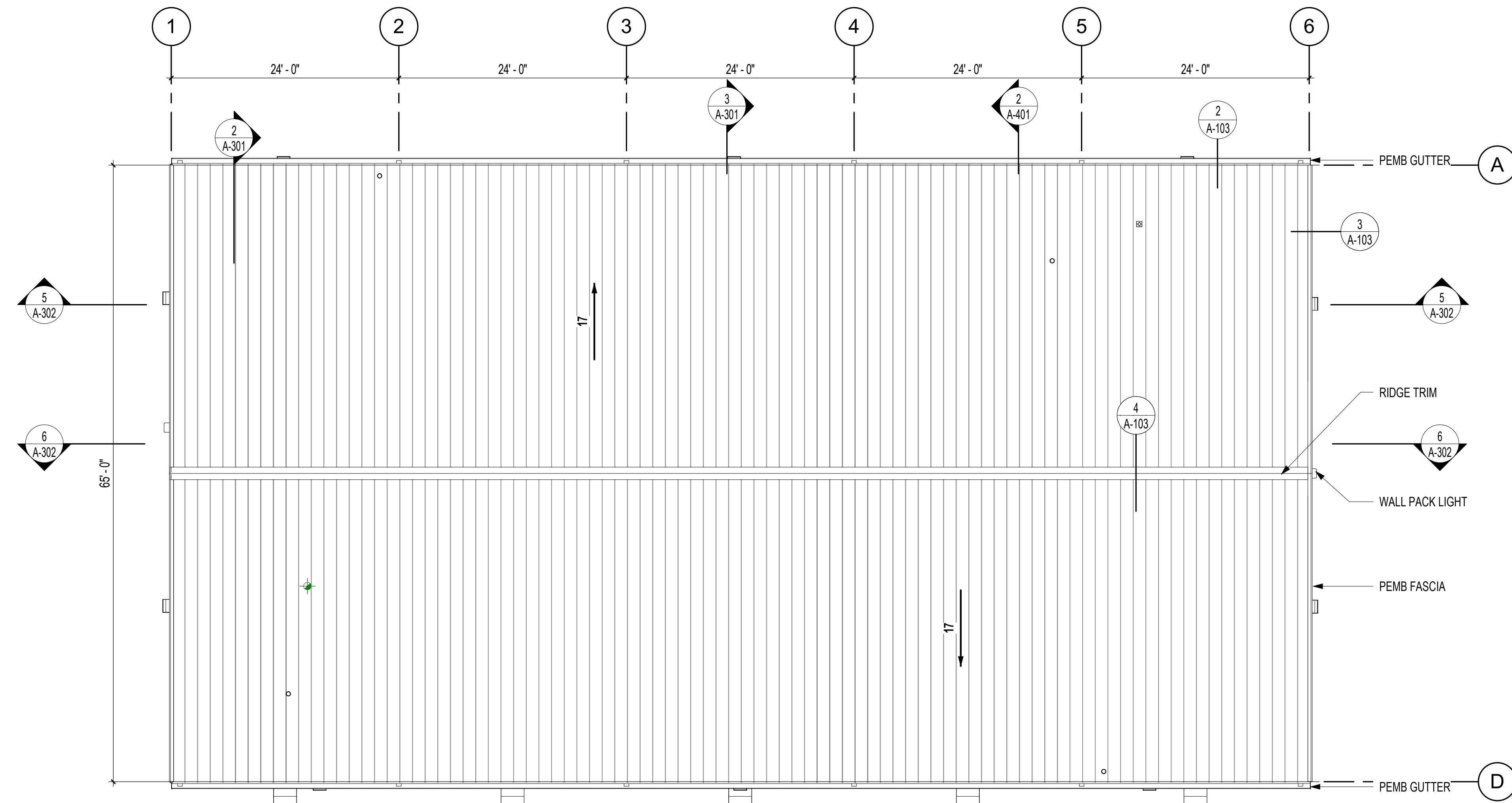
**3** PEMB RAKE DETAIL - ANGLE TRIM, SS ROOF, LINER  
3" = 1'-0"



**2** PEMB GUTTER - AMERICAN TRIM, SS, LP  
3" = 1'-0"



**5** FLASHING BOOT DETAIL  
1 1/2" = 1'-0"

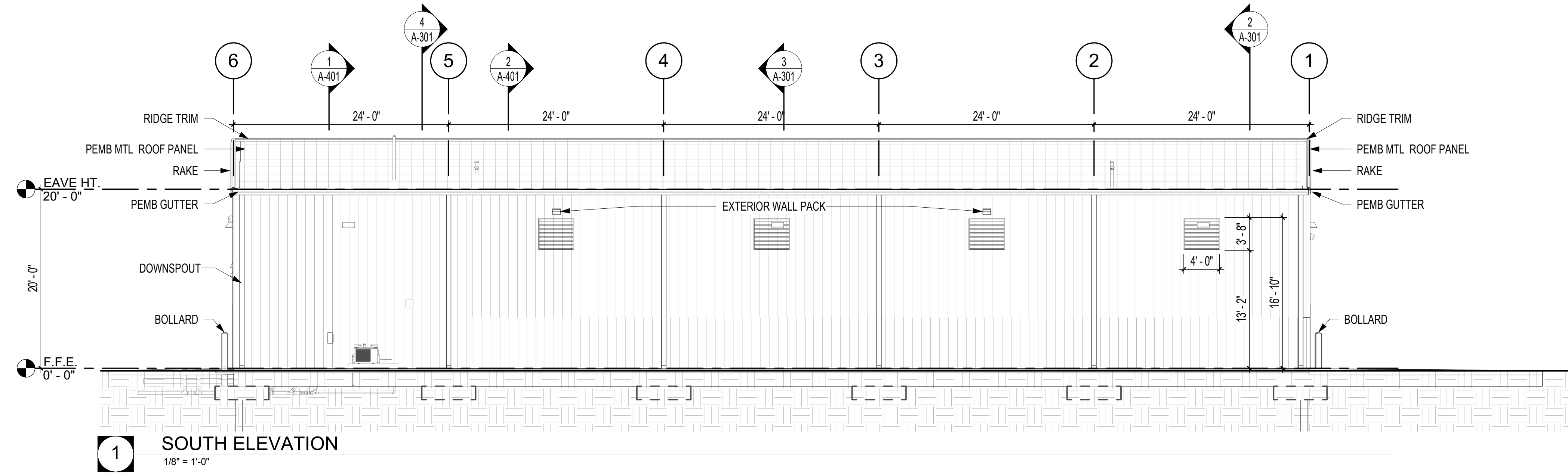


**1** ROOF PLAN  
1/8" = 1'-0"

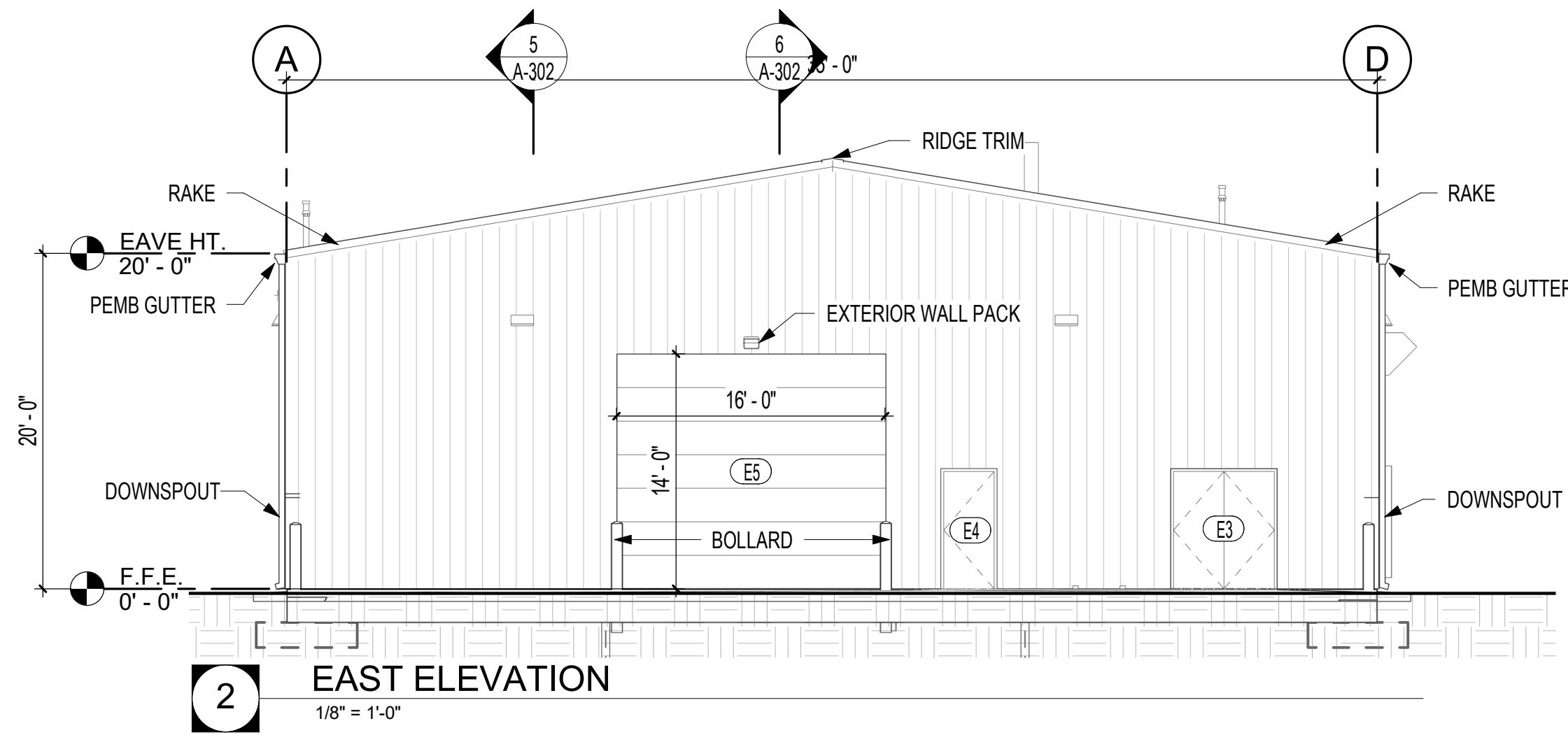
Rev.	Date	Revision Description

Seal  
  
 12/20/2024

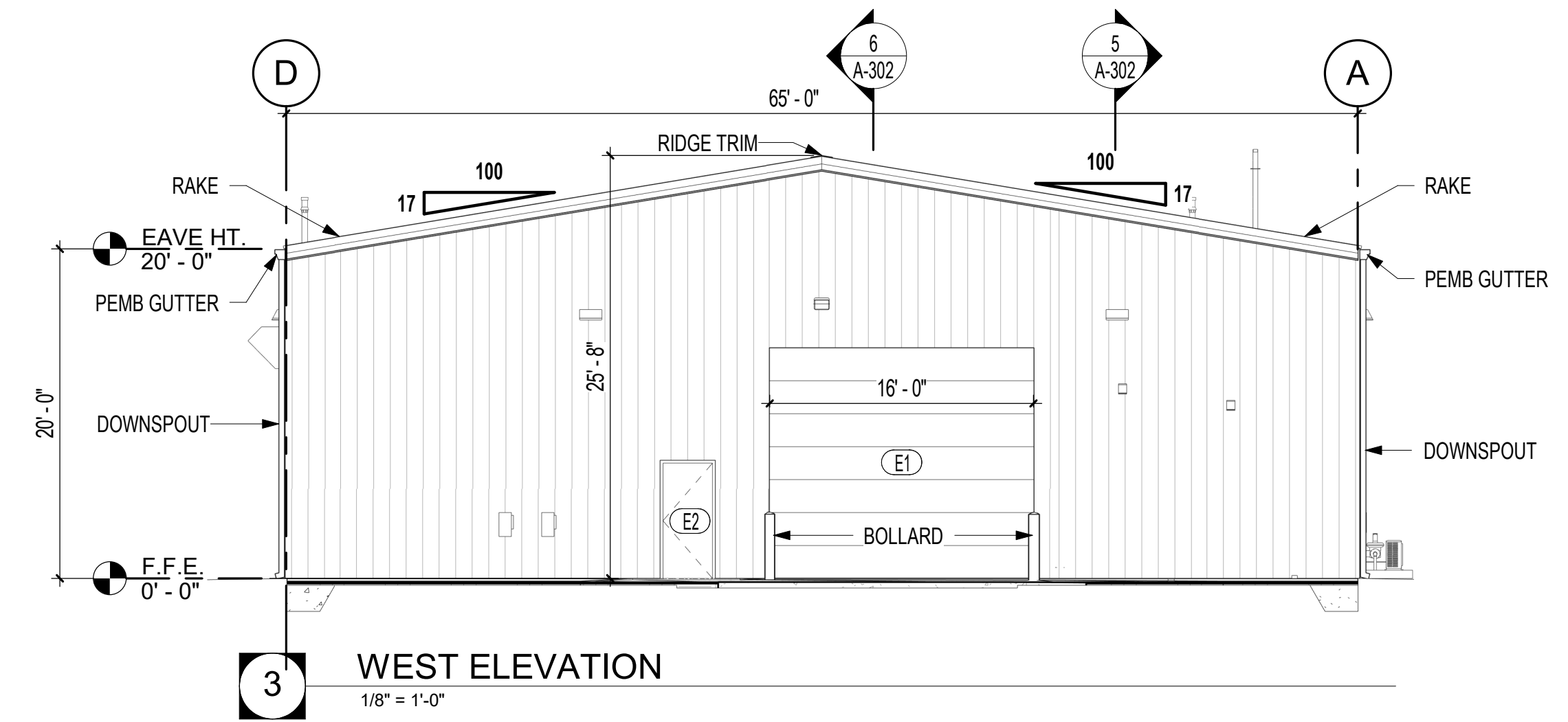
CONSTRUCTION DOCUMENTS - 100% SET  
 Issue Date: 12/20/2024  
 Project No: ARKGAMEF.0003 WR  
 Drawn By:  
 Checked By:  
 Sheet Title:  
 ROOF PLAN



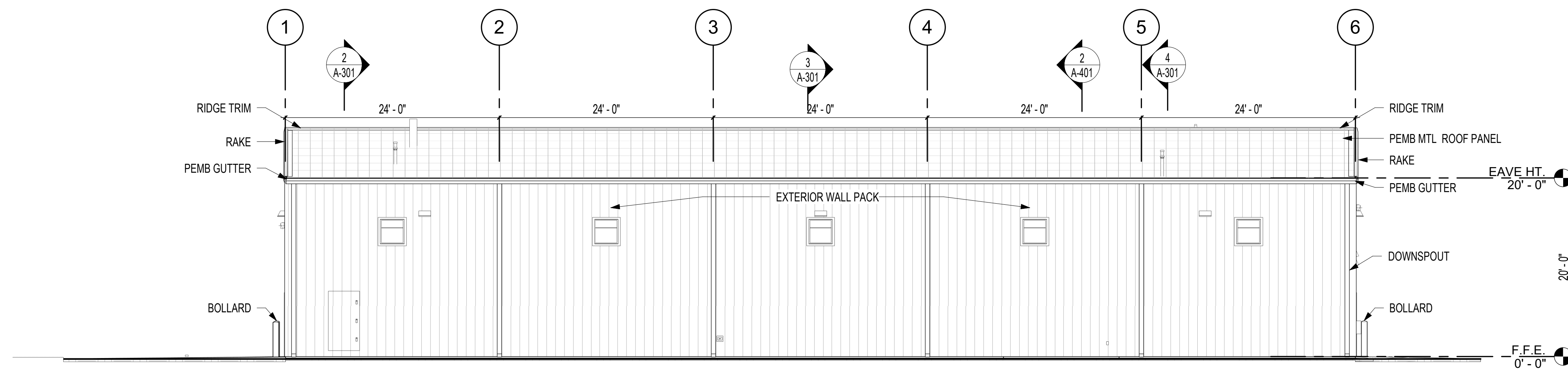
**1 SOUTH ELEVATION**  
1/8" = 1'-0"



**2 EAST ELEVATION**  
1/8" = 1'-0"



**3 WEST ELEVATION**  
1/8" = 1'-0"

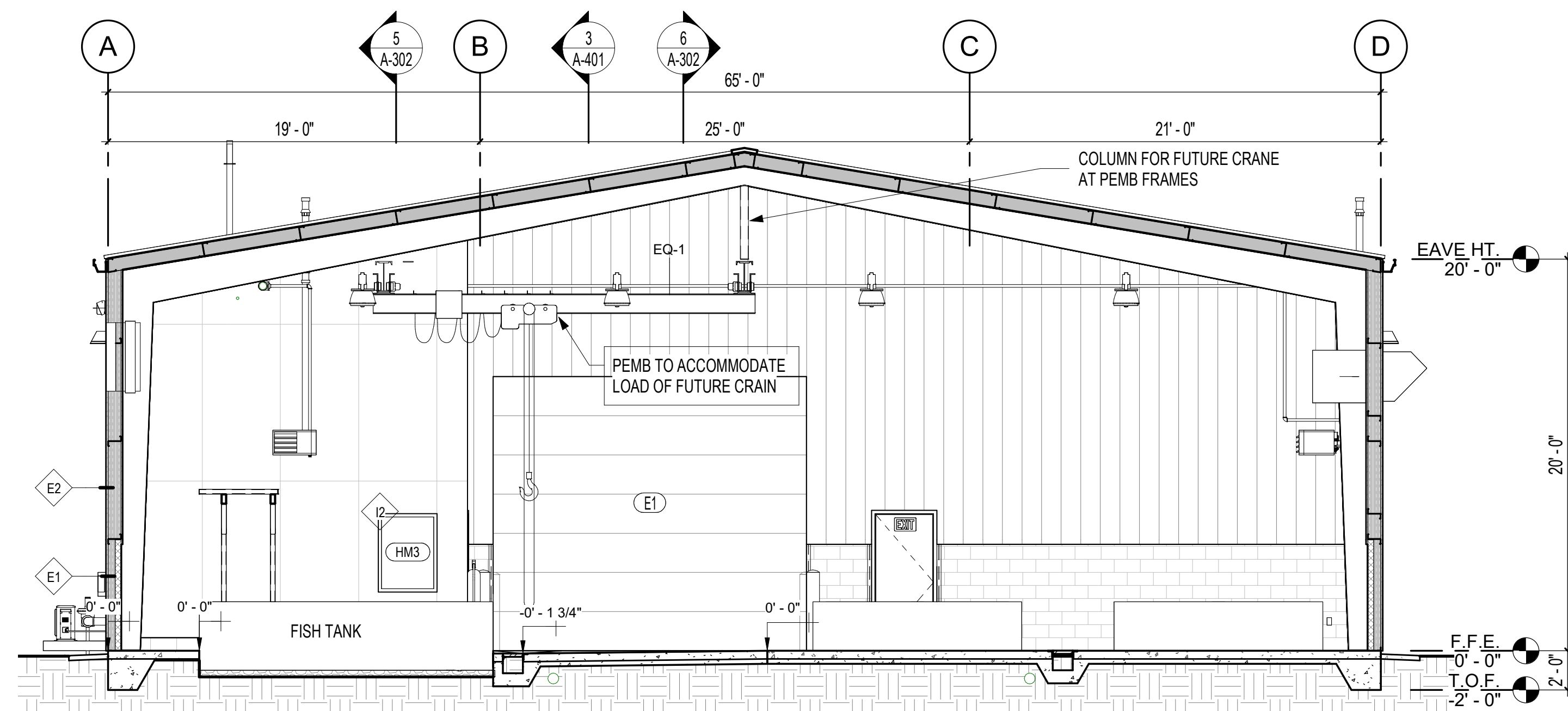


**4 NORTH ELEVATION**  
1/8" = 1'-0"

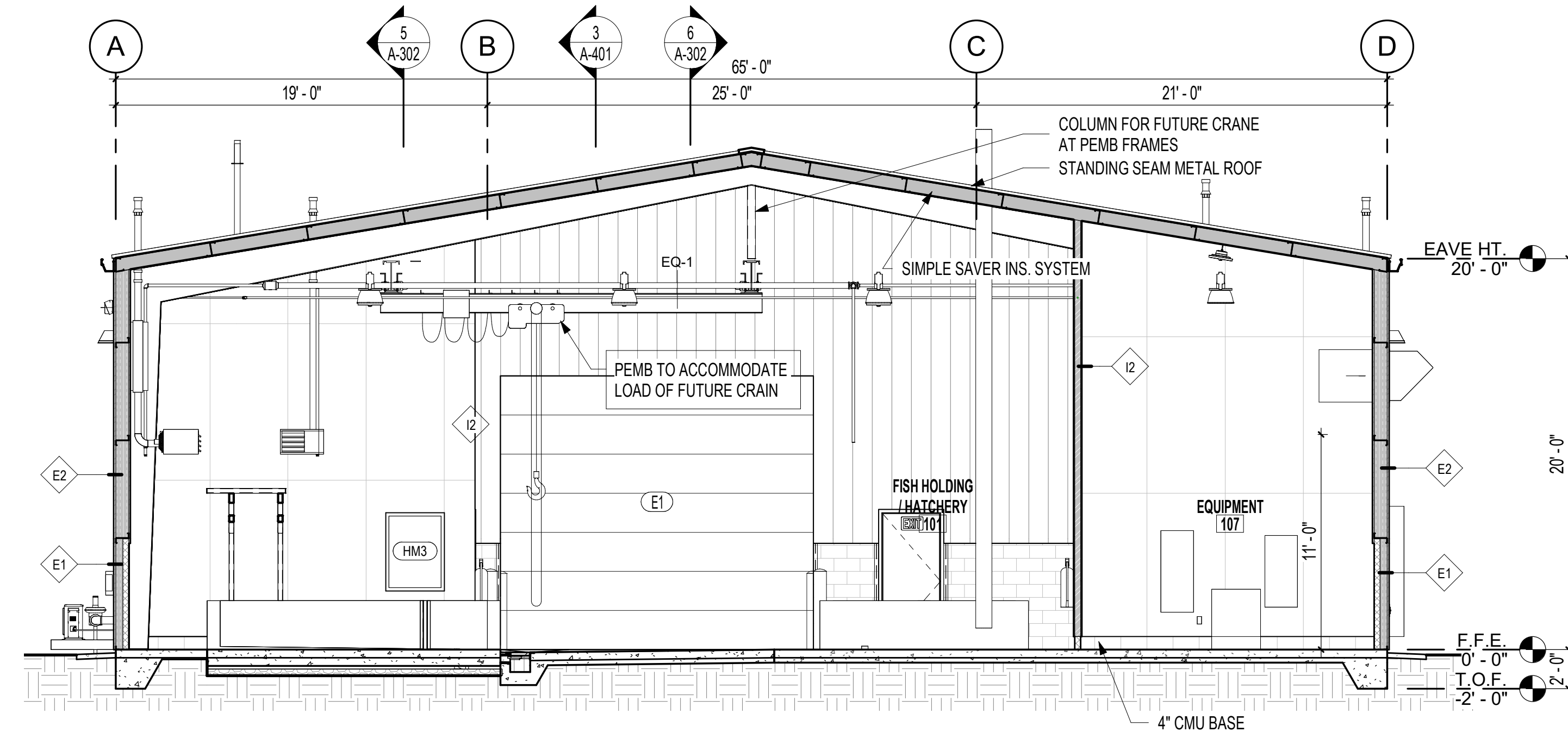
SCALE : 1/8" = 1'-0"

Rev.	Date	Revision Description

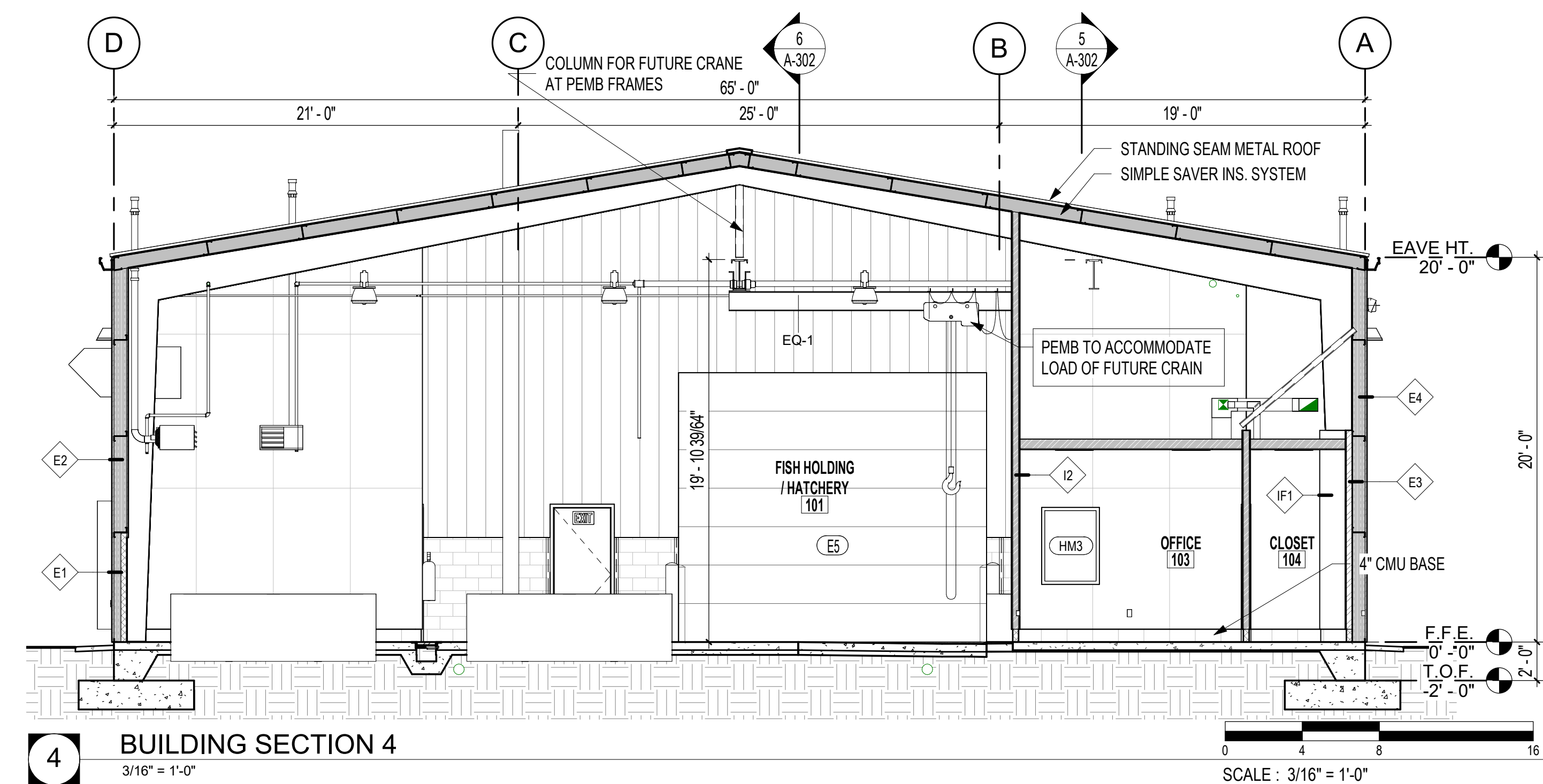
Seal  
  
 CONSTRUCTION DOCUMENTS - 100% SET  
 Issue Date: 12/20/2024  
 Project No: ARKGAMEF.0003 WFR  
 Drawn By:  
 Checked By:  
 Sheet Title:  
 EXTERIOR ELEVATIONS



**3** BUILDING SECTION 3  
3/16" = 1'-0"



**2** BUILDING SECTION 2  
3/16" = 1'-0"

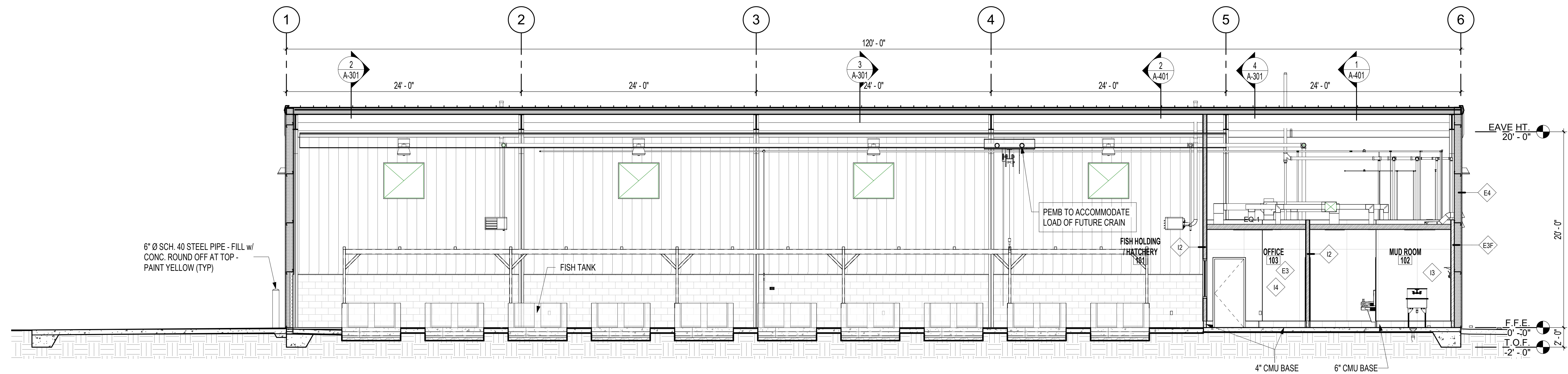


**4** BUILDING SECTION 4  
3/16" = 1'-0"

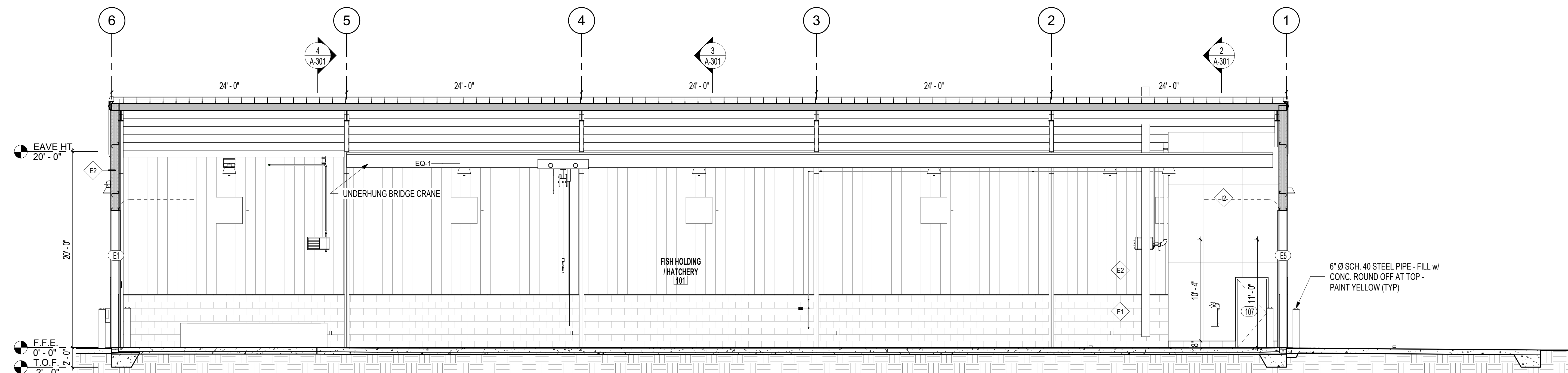
Rev.	Date	Revision Description

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CONSTRUCTION  
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 Project No: ARKGAMEF.0003 WR  
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 Checked By:  
 Sheet Title:  
 BUILDING SECTIONS



**5** BUILDING SECTION 5  
3/16" = 1'-0"



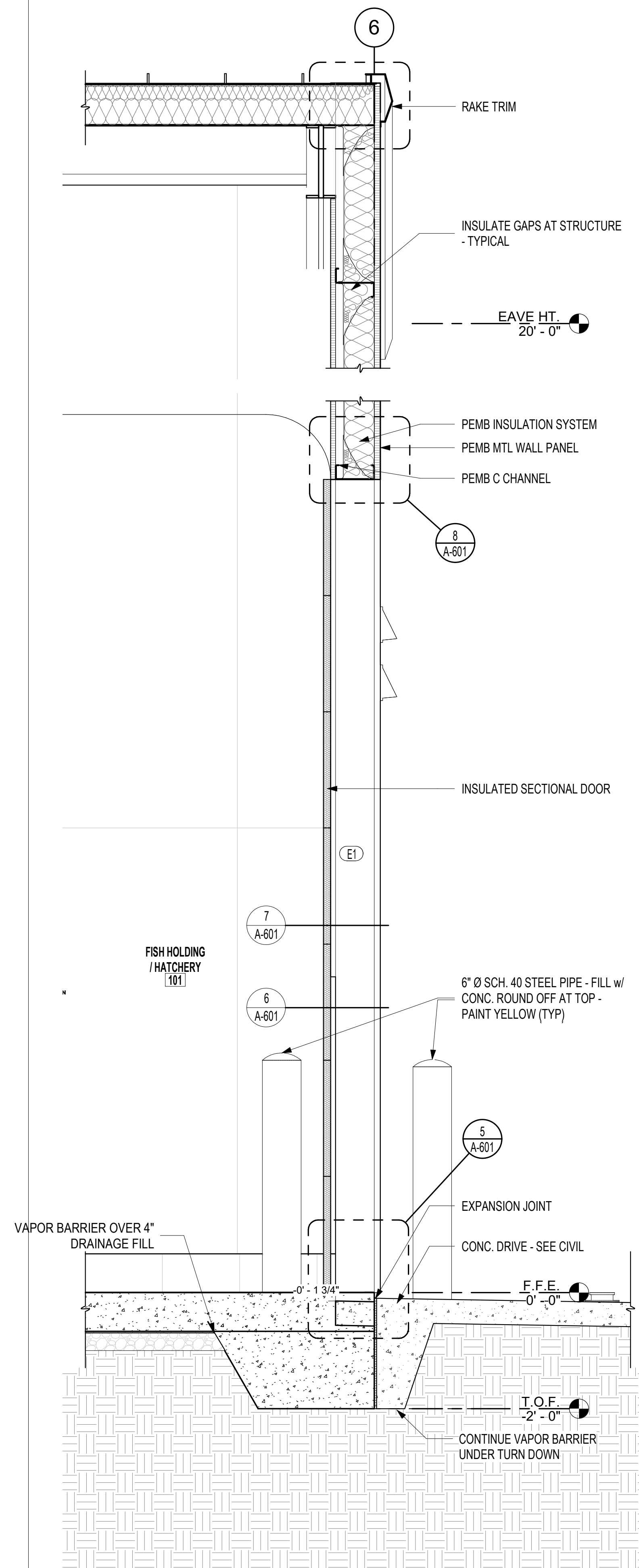
**6** BUILDING SECTION 6  
3/16" = 1'-0"

Rev.	Date	Revision Description

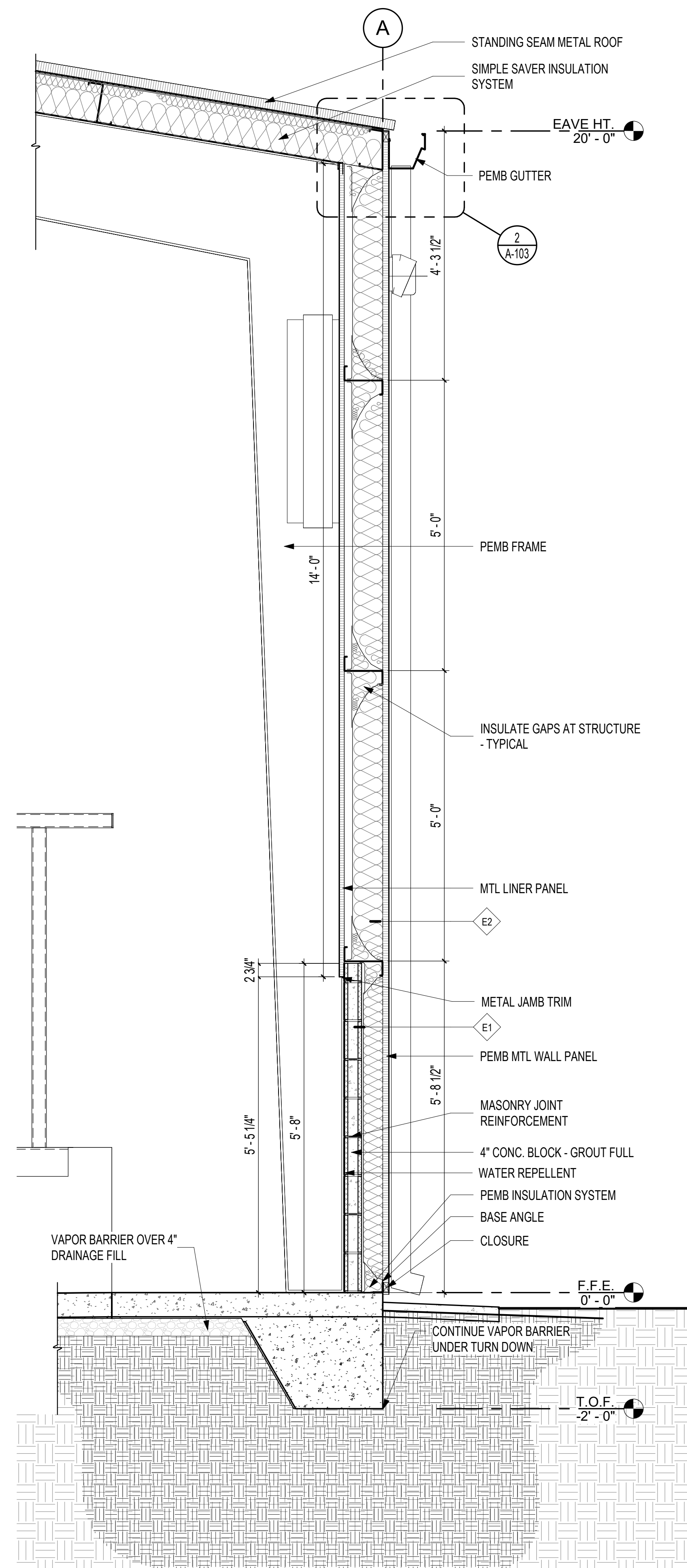
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CONSTRUCTION  
DOCUMENTS - 100% SET  
 Issue Date: 12/20/2024  
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 Checked By:  
 Sheet Title:  
 BUILDING SECTIONS

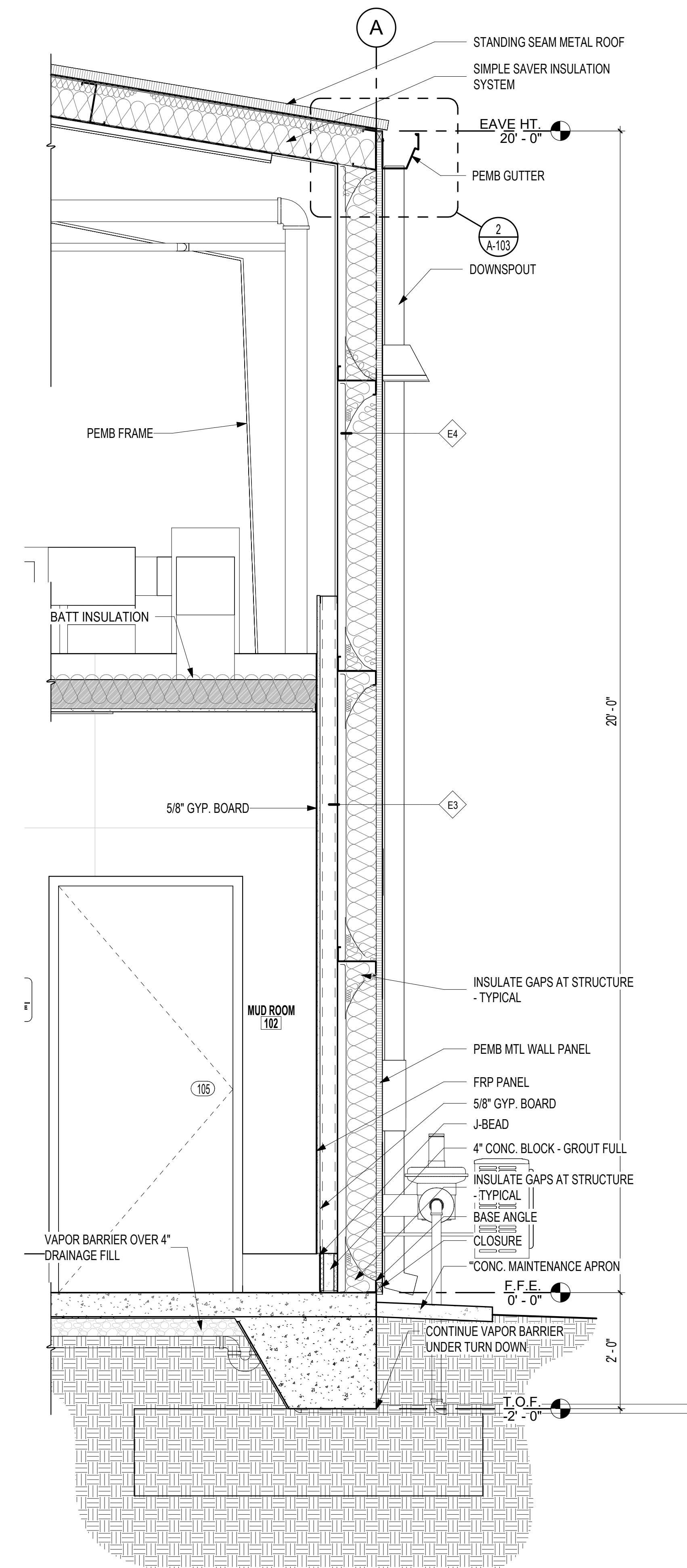




**3** WALL SECTION 3  
3/4" = 1'-0"



**2** WALL SECTION 2  
3/4" = 1'-0"



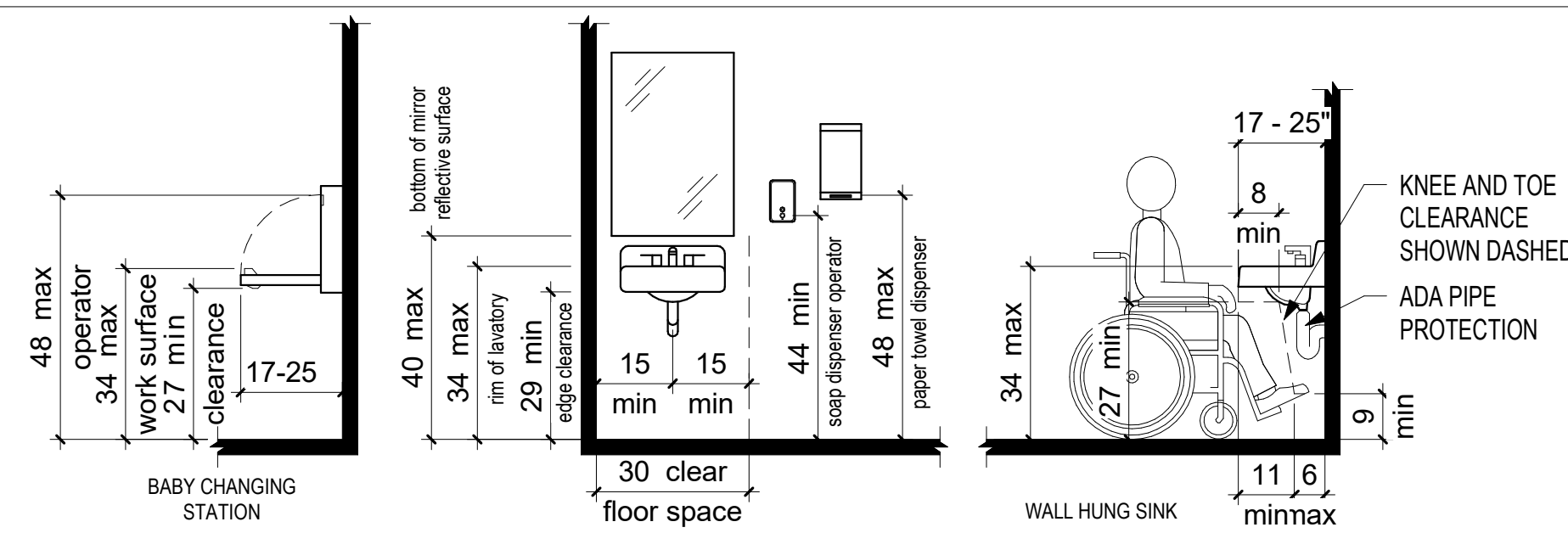
**1** WALL SECTION 1  
3/4" = 1'-0"

**COOPER MIXON**  
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**SYSTEM UPGRADES AT CHARLIE CRAIG HATCHERY FOR ARKANSAS GAME & FISH**  
977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719

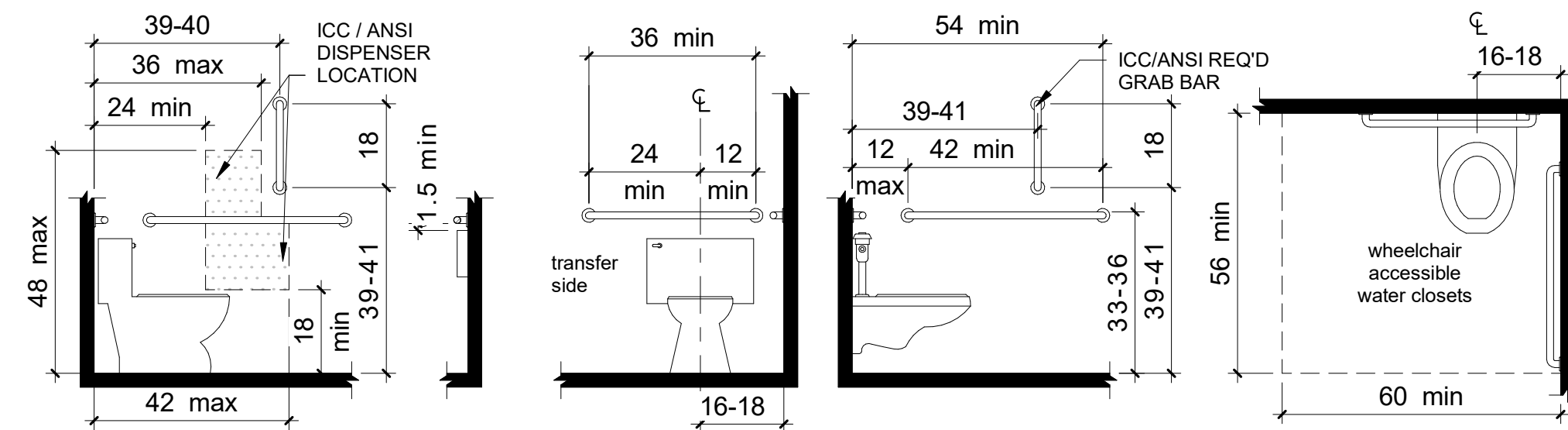
Rev.	Date	Revision Description

Seal  
  
 REGISTERED ARCHITECT  
 12/20/2024  
 CONSTRUCTION DOCUMENTS - 100% SET  
 Issue Date: 12/20/2024  
 Project No: ARKGAMEF.0003 WR  
 Drawn By:  
 Checked By:  
 Sheet Title:  
 WALL SECTIONS



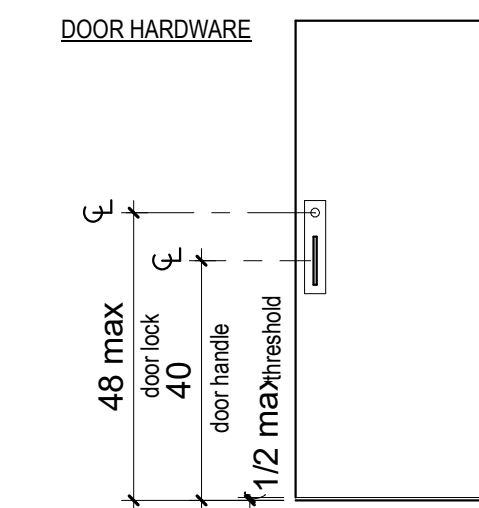
ADA SINK AND ACCESSORIES

3/8" = 1'-0"



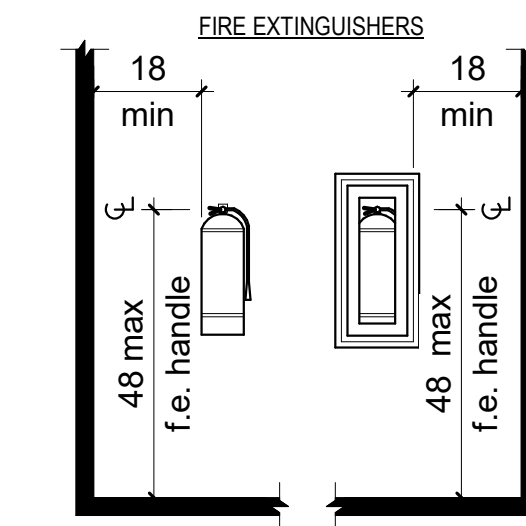
ADA WHEELCHAIR ACCESSIBLE WATER CLOSET

3/8" = 1'-0"



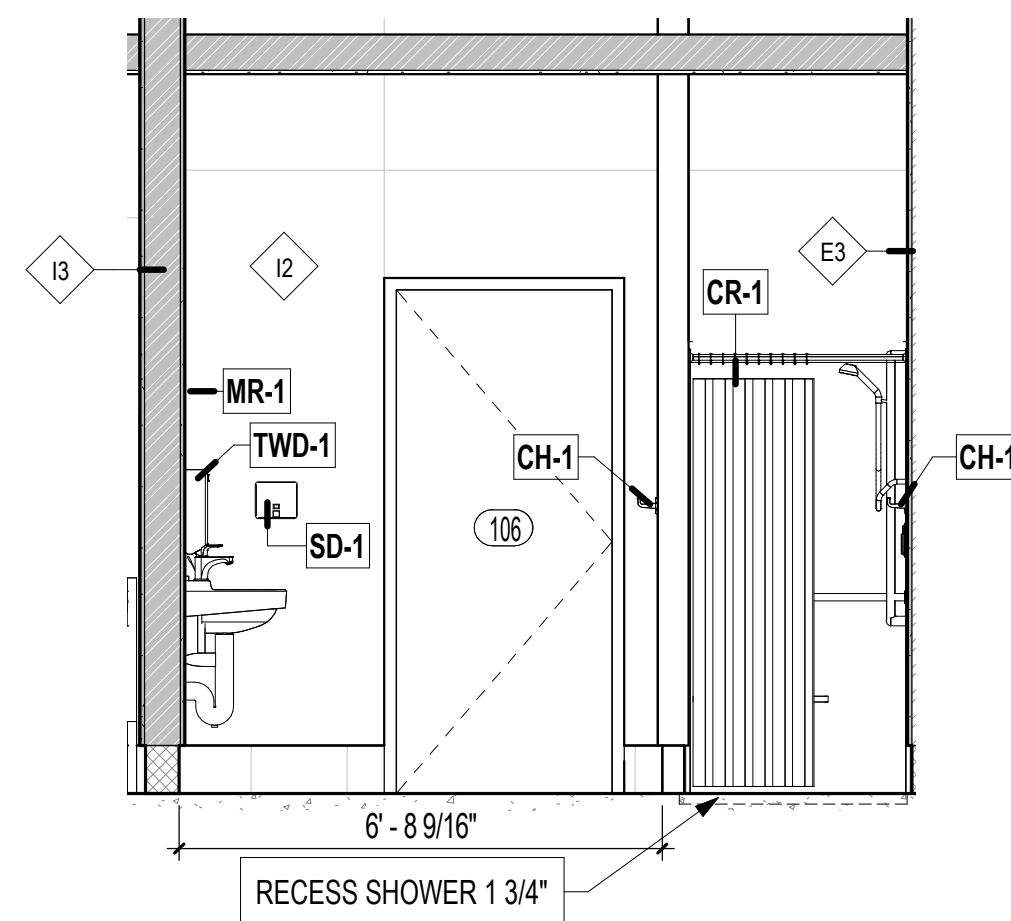
ADA HARDWARE

3/8" = 1'-0"



ADA FIRE EXTINGUISHERS

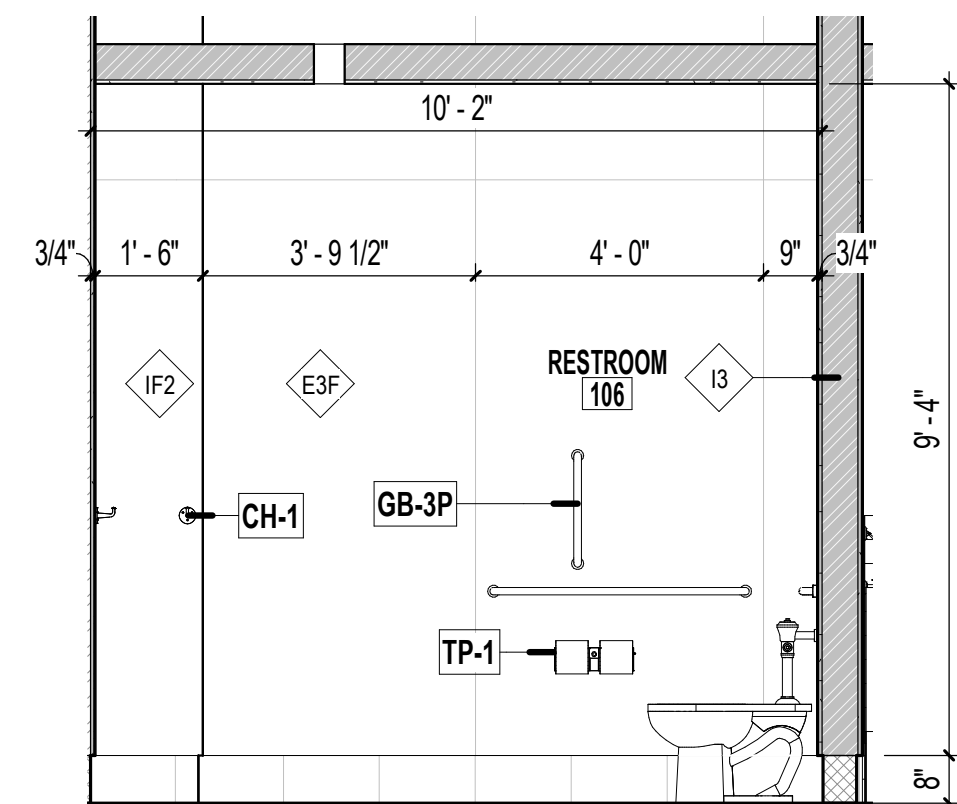
3/8" = 1'-0"



4 RESTROOM ELEVATION 4

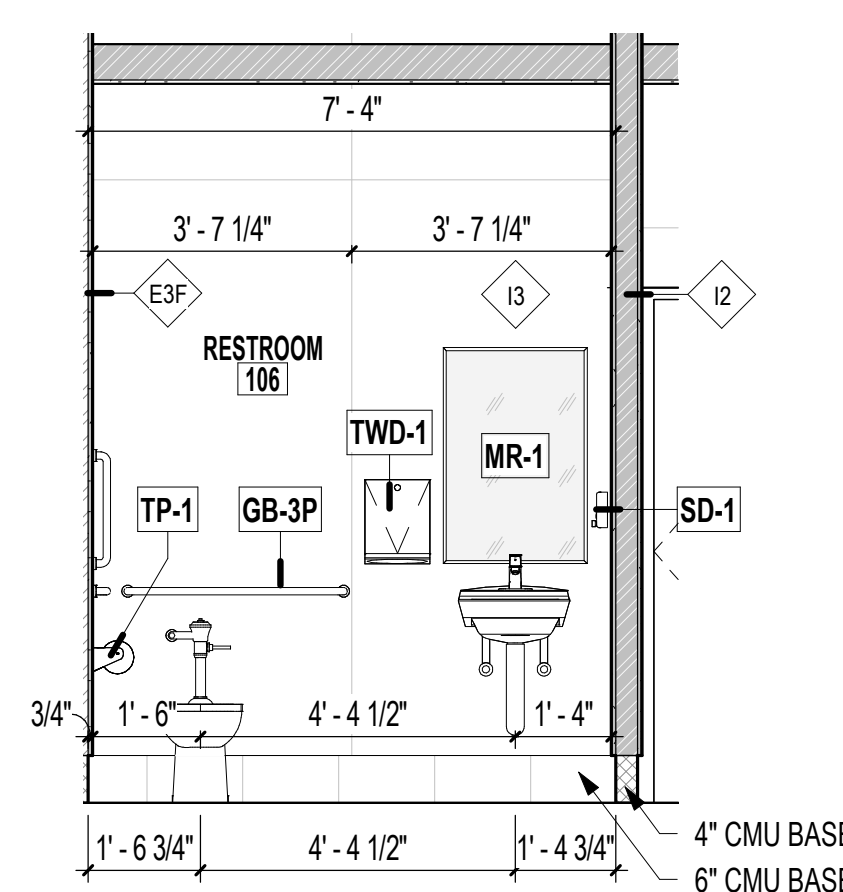
3/8" = 1'-0"

RESTROOM SPECIALTY EQUIPMENT SCHEDULE			
TYPE MARK	DESCRIPTION	B.O.D. MANU.	MODEL
BH-1	UTILITY SHELF WITH RAG HOOKS AND BROOM HOLDERS	BOBRICK	B-239
CH-1	COAT HOOK	BOBRICK	B-211
CR-1	CURTAIN ROD w/ SHOWER CURTAIN & HOOKS	BOBRICK	B-207x36
FEC	BRACKET MOUNTED FIRE EXTINGUISHER	SEE SPECS	
GB-3P	ADA GRAB BARS	BOBRICK	B-6806x18,36&42
MR-1	CHANNEL FRAME MIRROR	BOBRICK	B-165 2436
SD-1	SOAP DISPENSER	BOBRICK	B-4112
TP-1	TOILET PAPER DISPENSER	BOBRICK	B-69997
TWD-1	PAPER TOWEL DISPENSER	BOBRICK	B-262



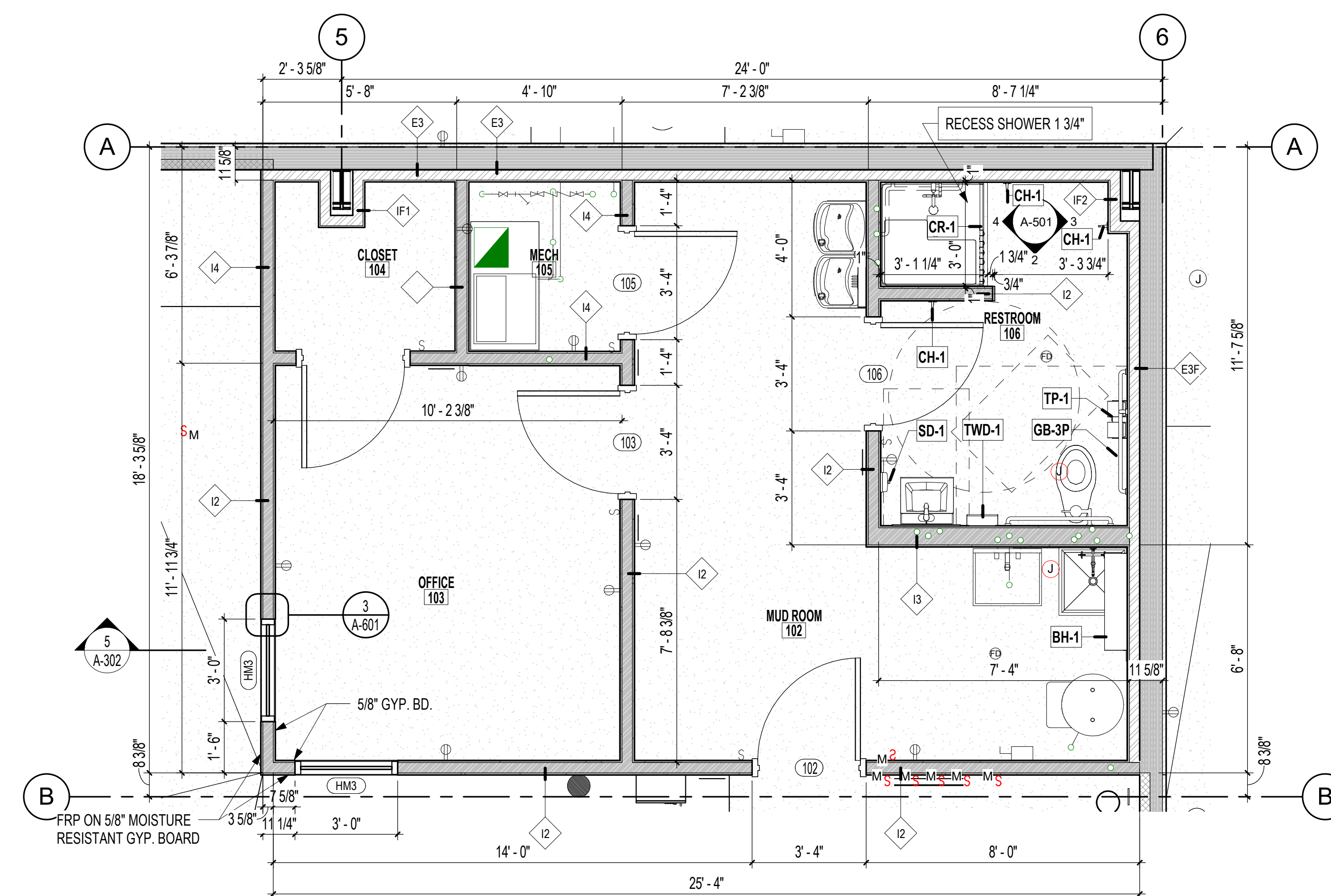
3 RESTROOM ELEVATION 3

3/8" = 1'-0"



2 RESTROOM ELEVATION 2

3/8" = 1'-0"



1 ENLARGED MUD ROOM, LAB, AND RESTROOM

3/8" = 1'-0"

SYSTEM UPGRADES AT  
CHARLIE CRAIG HATCHERY FOR  
ARKANSAS GAME & FISH  
977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719

**FISHER ARNOLD**  
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Rev.	Date	Revision Description

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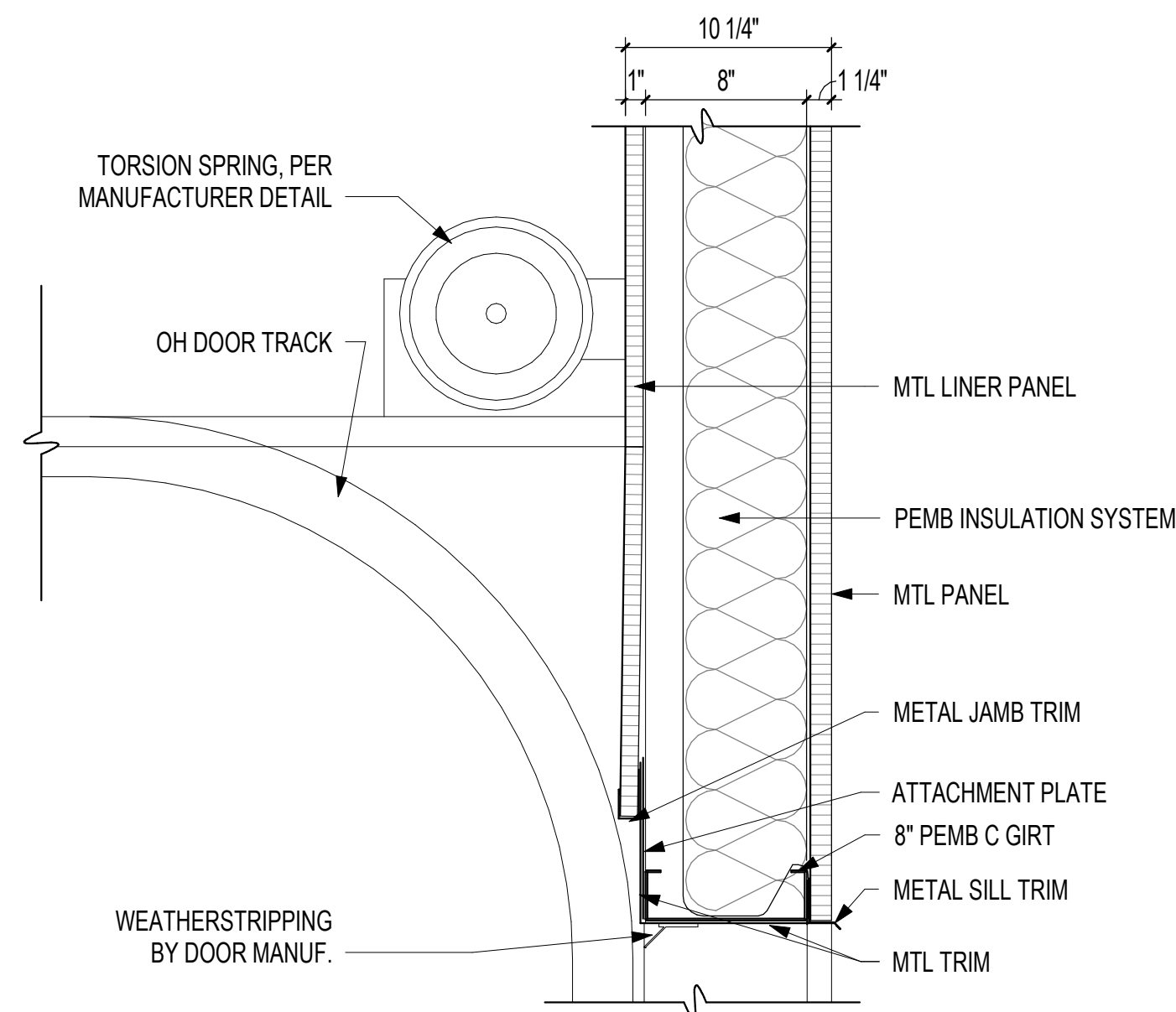
CONSTRUCTION DOCUMENTS - 100% SET  
 Issue Date: 12/20/2024  
 Project No: ARKGAMEF.0003 WR  
 Drawn By:  
 Checked By:  
 Sheet Title:  
 ENLARGED FLOOR PLAN,  
 RESTROOM ELEVATIONS,  
 ADA MOUNTING HEIGHTS

Sheet Number:  
**A-501**

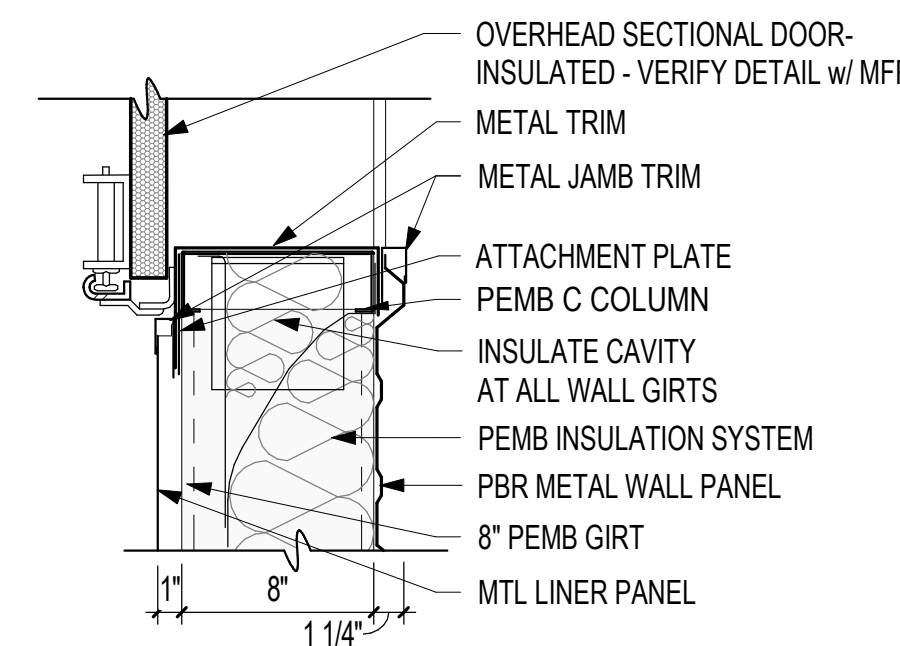
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EXTERIOR DOOR SCHEDULE															
DOOR NO.	OPENING SIZE		DOOR TYPE	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME			HEAD DETAIL	JAMB DETAIL	SILL DETAIL	HDW SET	FIRE RATING	REMARKS
	WIDTH	HEIGHT					MATERIAL	FINISH	FINISH						
E1	16'-0"	14'-0"	C	MTL	MFR FINISH	-	MTL	MFR FINISH	8 / A-601	6 & 7 / A-601	5 / A-601	BY MFR			
E2	3'-0"	7'-0"	A	MTL	PAINT	1	MTL	PAINT	4 / A-601	2 & 3 / A-601	1 / A-601				
E3	6'-0"	7'-0"	B	MTL	PAINT	2	MTL	PAINT	4 / A-601	2 & 3 / A-601	1 / A-601				
E4	3'-0"	7'-0"	A	MTL	PAINT	1	MTL	PAINT	4 / A-601	2 & 3 / A-601	1 / A-601				
E5	16'-0"	14'-0"	C	MTL	MFR FINISH	-	MTL	MFR FINISH	8 / A-601	6 & 7 / A-601	5 / A-601	BY MFR			

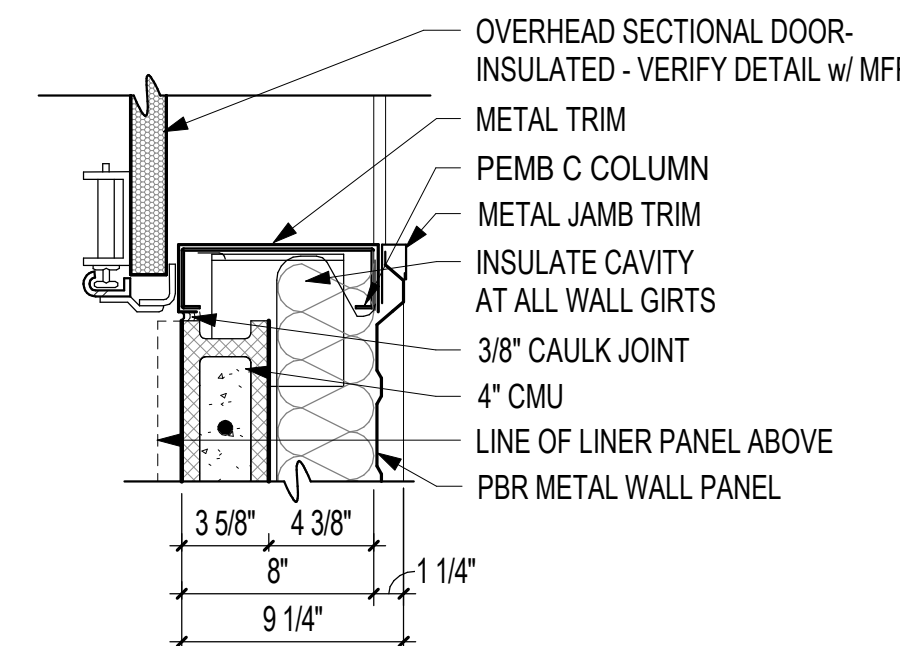
INTERIOR DOOR SCHEDULE															
DOOR NO.	OPENING SIZE		DOOR TYPE	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME			HEAD DETAIL	JAMB DETAIL	SILL DETAIL	HDW SET	FIRE RATING	REMARKS
	WIDTH	HEIGHT					MATERIAL	FINISH	FINISH						
102	3'-0"	7'-0"	A	MTL	PAINT	1	MTL	PAINT	9 / A-601 SIM	9 / A-601	-				
103	3'-0"	7'-0"	A	MTL	PAINT	1	MTL	PAINT	9 / A-601 SIM	9 / A-601	-				
105	3'-0"	7'-0"	A	MTL	PAINT	1	MTL	PAINT	9 / A-601 SIM	9 / A-601	-				
106	3'-0"	7'-0"	A	MTL	PAINT	1	MTL	PAINT	9 / A-601 SIM	9 / A-601	-				
107	3'-0"	7'-0"	A	MTL	PAINT	1	MTL	PAINT	9 / A-601 SIM	9 / A-601	-				
108	3'-0"	7'-0"	A	MTL	PAINT	1	MTL	PAINT	9 / A-601 SIM	9 / A-601	-				



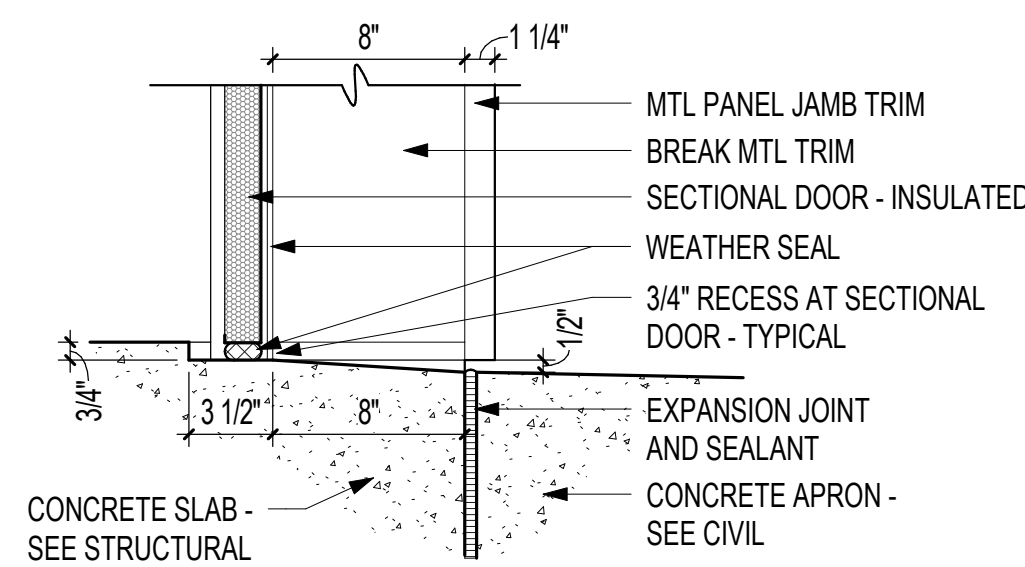
8 SECTIONAL DOOR HEAD  
1 1/2" = 1'-0"



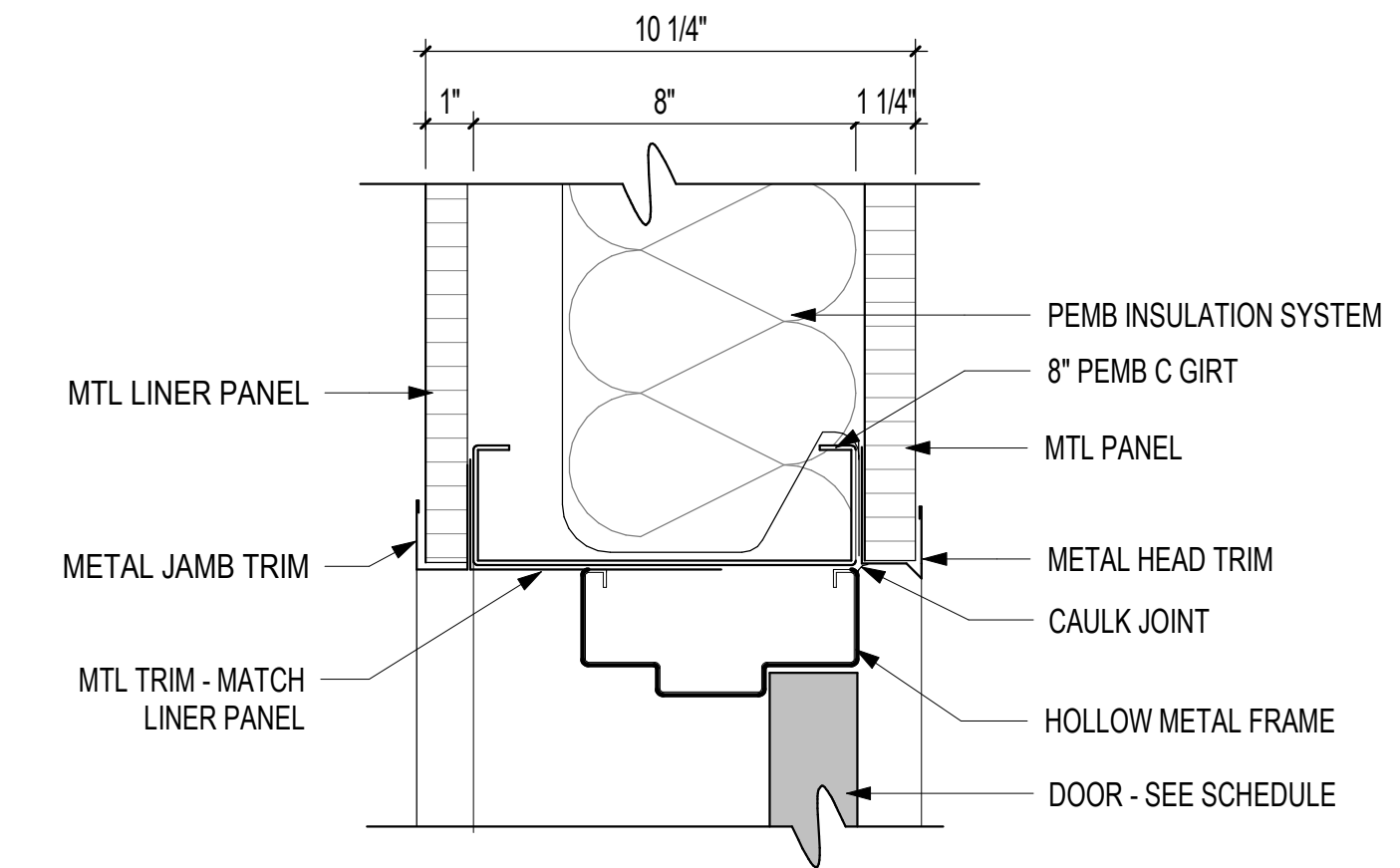
7 SECTIONAL DOOR JAMB - UPPER  
1 1/2" = 1'-0"



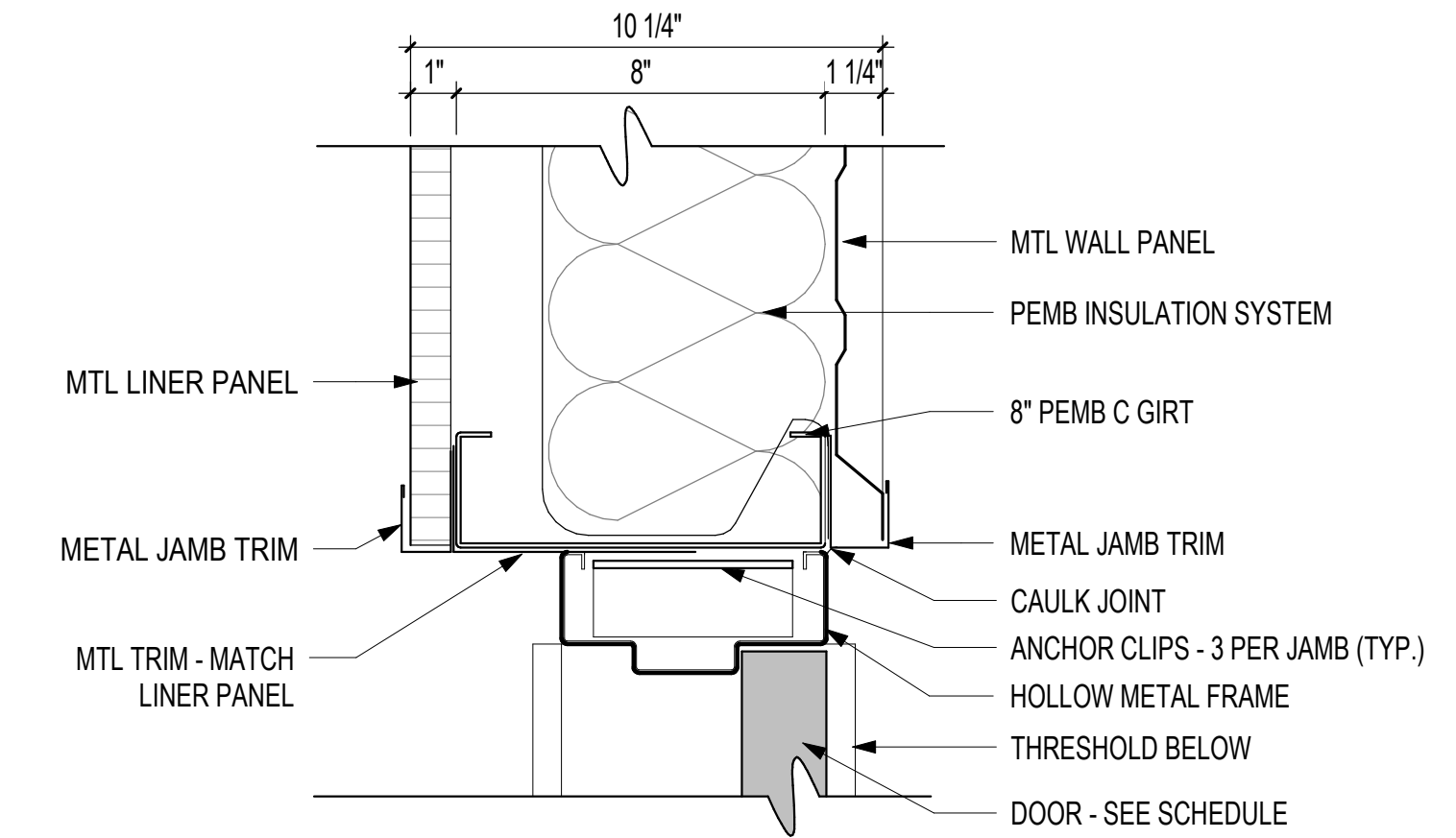
6 SECTIONAL DOOR JAMB - LOWER  
1 1/2" = 1'-0"



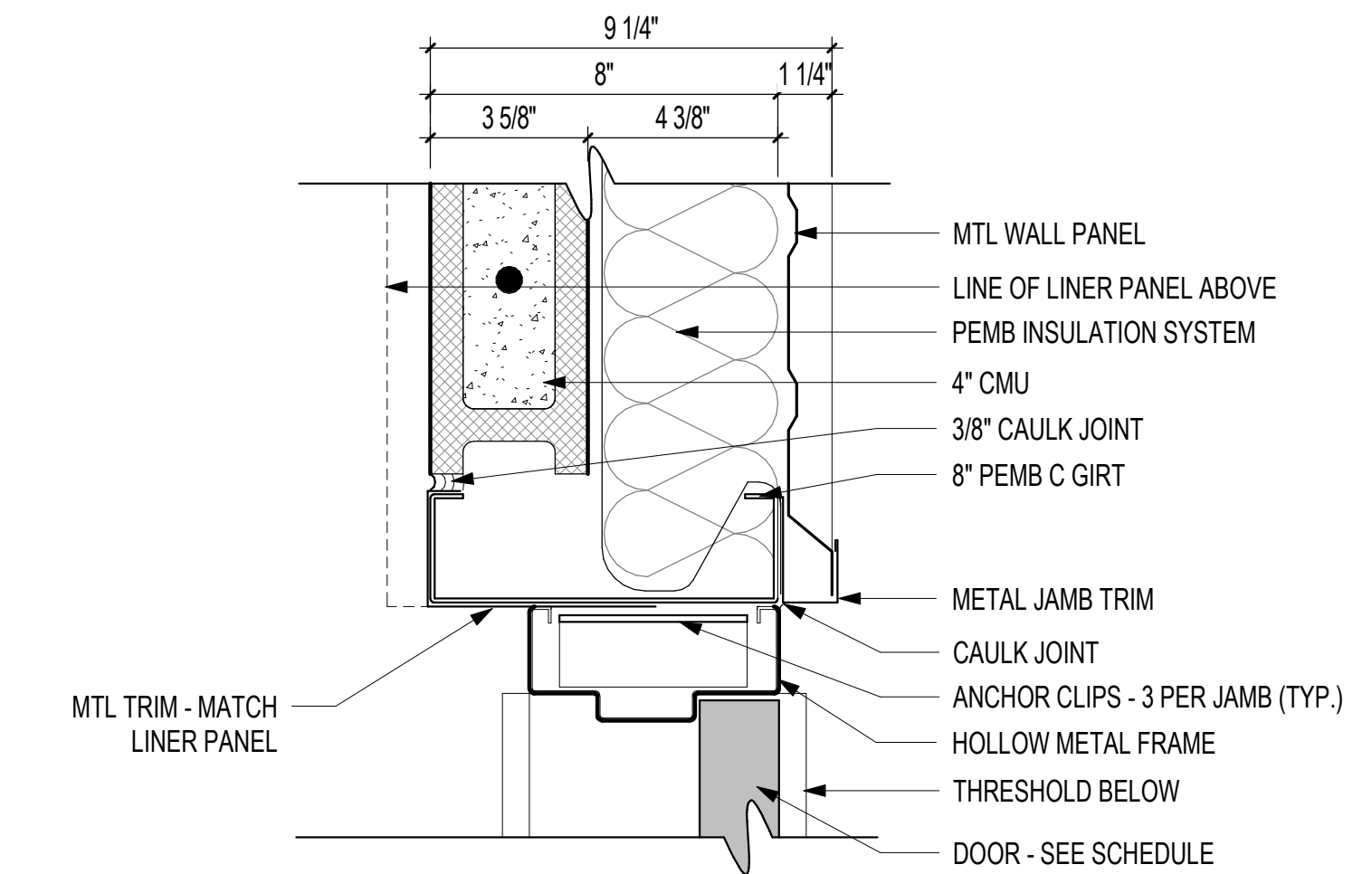
5 SECTIONAL DOOR SILL  
1 1/2" = 1'-0"



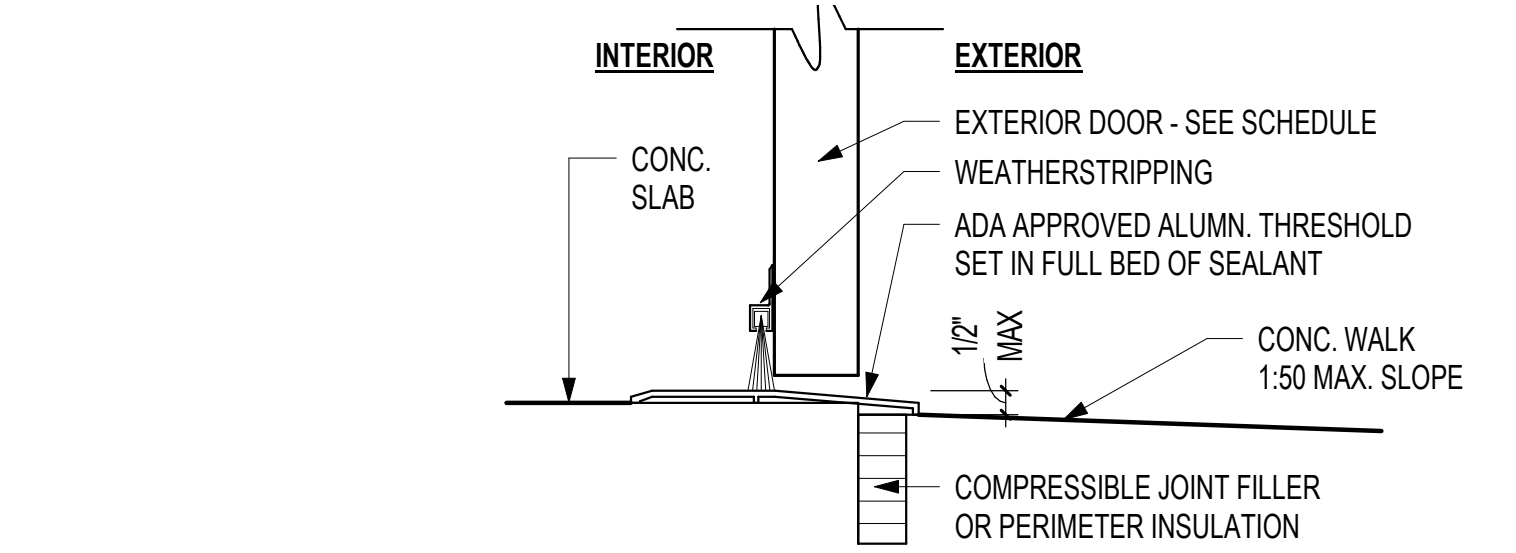
4 MB8/MP1.25/IS6/LP1 - HMF HEAD DETAIL  
3" = 1'-0"



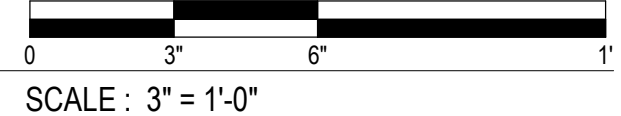
3 MB8/MP1.25/IS6/LP1 - HMF JAMB DETAIL  
3" = 1'-0"



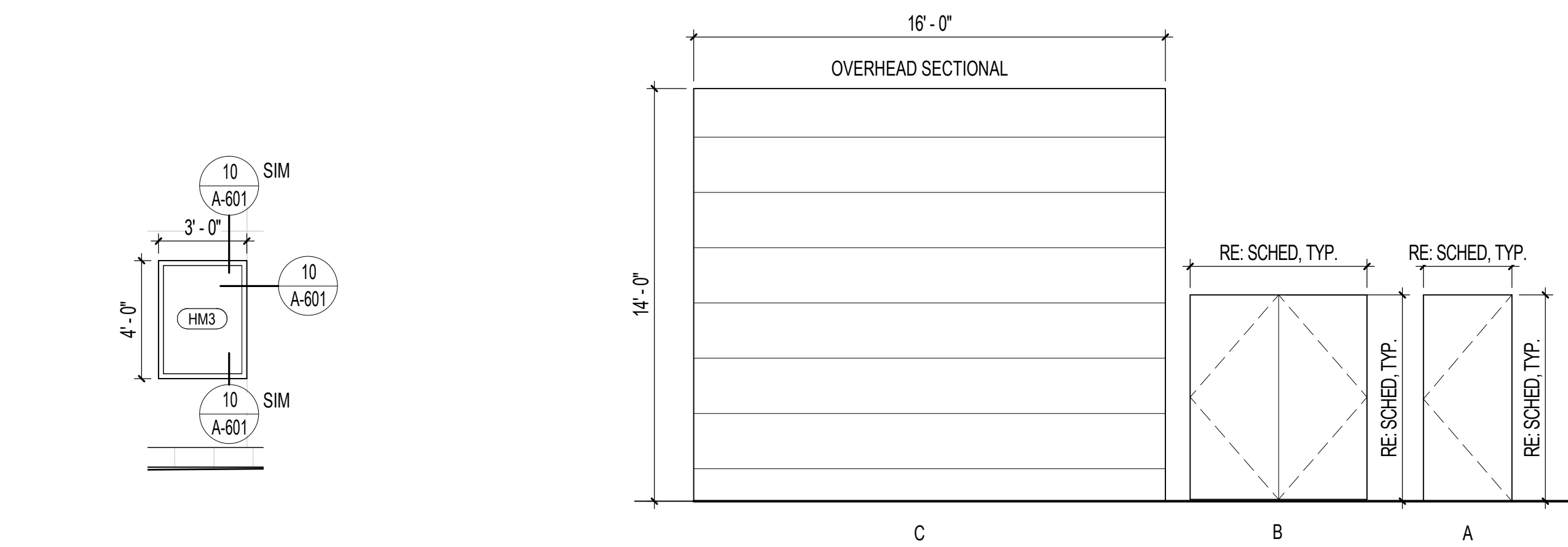
2 MB8/MP1.25/IS6/BL4 - HMF JAMB DETAIL  
3" = 1'-0"



1 EXTERIOR DOOR THRESHOLD  
3" = 1'-0"

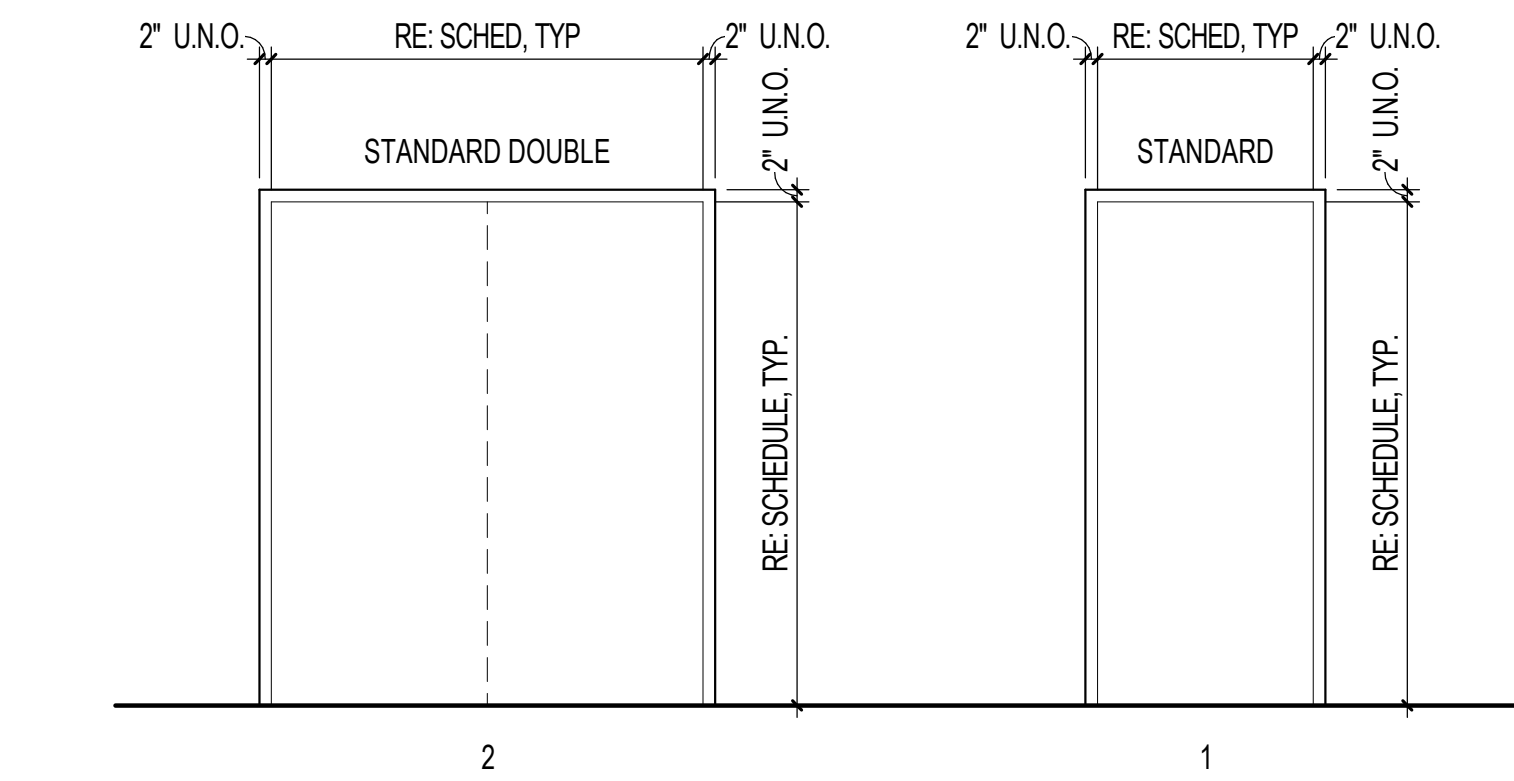


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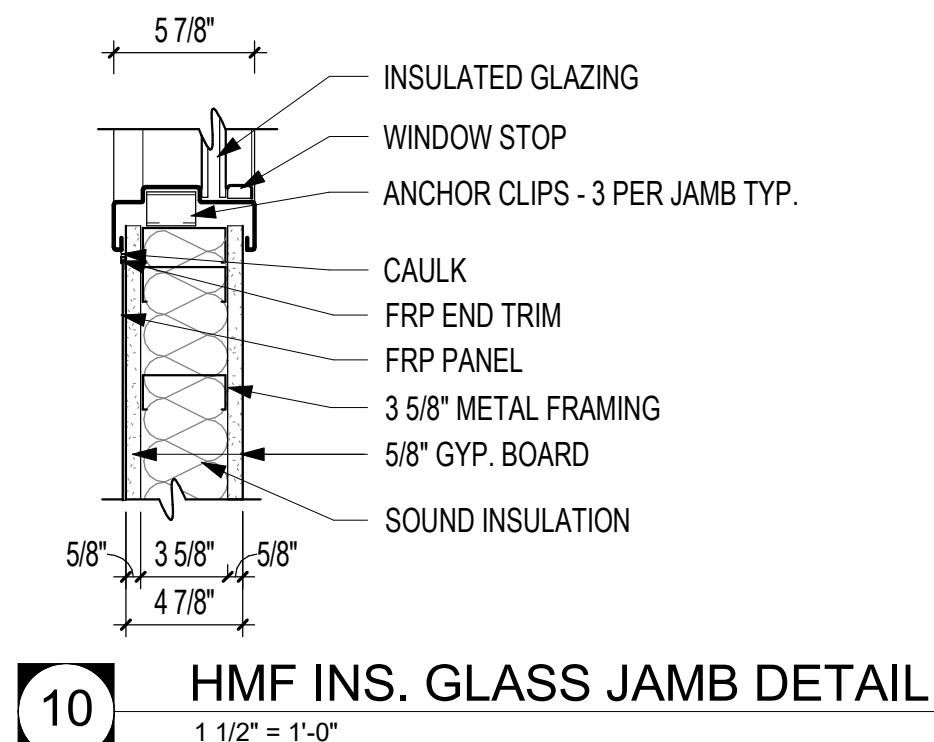


HMf WINDOW FRAME ELEVATION  
1/4" = 1'-0"

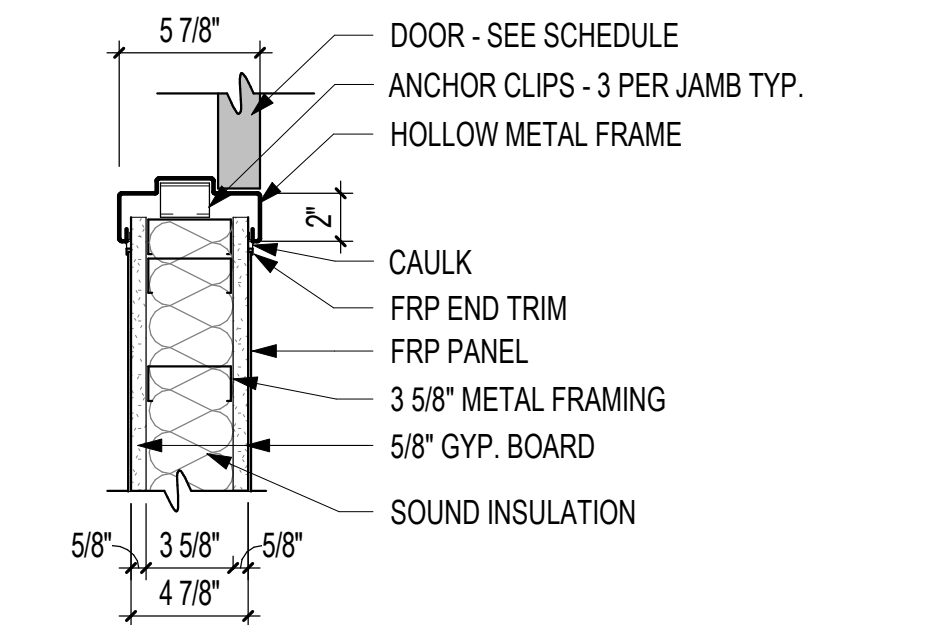
DOOR ELEVATIONS  
1/4" = 1'-0"



DOOR FRAME ELEVATIONS  
3/8" = 1'-0"



10 HMf INS. GLASS JAMB DETAIL  
1 1/2" = 1'-0"



9 HMf DOOR JAMB DETAIL  
1 1/2" = 1'-0"

Rev.	Date	Revision Description

Seal  
COOPER MIXON ARCHITECTS  
LL237  
REGISTERED ARCHITECTS  
ARKANSAS  
12/20/2024

CONSTRUCTION DOCUMENTS - 100% SET

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Drawn By:  
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Sheet Title:  
DOOR SCHEDULE, DOOR AND WINDOW DETAILS

Sheet Number:  
A-601

## PLUMBING GENERAL NOTES

1. THE CONTRACTOR SHALL, PRIOR TO THE START OF ANY WORK UNDER THIS CONTRACT, JOB SITE VERIFY SIZE, LOCATION, ETC. OF ANY EXISTING PIPING NOTED, SHOWN OR IMPLIED, TO WHICH NEW PIPING IS RELATED OR CONNECTED.
2. HOT AND COLD WATER SUPPLIES TO FIXTURES SHALL BE AS FOLLOWS, UNLESS SHOWN OR NOTED OTHER WISE.
 

WATER CLOSET	1-1/4"
URINAL	1"
LAVATORY	1/2"
SERVICE SINK	3/4"
ELECTRIC WATER COOLER	1/2"
SINK	1/2"
SHOWER	1/2"
FREEZE-PROOF WALL HYDRANT	3/4"
CLINICAL SINK	1-1/4" & 1/2"
ICE MACHINE	1/2"
SUPPLY AND DRAIN UNIT (WASHER BOX)	1/2"
HOSE BIBB	3/4"
EMERGENCY SHOWER EYEWASH	1-1/4"
3. INSTALL WATER HAMMER ARRESTORS EQUAL TO ZURN "SHOKTROL" AT EACH QUICK CLOSING VALVE, AND AT EACH GROUP OF PLUMBING FIXTURES, AND AS NOTED ON DRAWINGS SIZED AS PER MANUFACTURERS RECOMMENDATIONS. (MUST BE ACCESSIBLE WHERE POSSIBLE, ABOVE CEILING IF NECESSARY)
4. ALL SUPPLIES TO FIXTURE SHALL BE PROVIDED WITH HIGH EAR COUPLING EQUAL TO MUELLER CO. No. C-100HE (1/2", 3/4" OR 1" SIZE) AT THE WALL (ANCHOR TO CROSS MEMBER SUPPORT) BEFORE PIPE ENTERS ROOM SPACE TO ASSURE NO PIPE MOVEMENT WITHIN WALL CAVITY.
5. ALL FLOOR DRAINS SHALL BE PROVIDED WITH DEEP SEAL TYPE TRAP WITH NOT LESS THAN FOUR INCH (4") WATER SEAL AND BE PROVIDED WITH TRAP PRIMER.
6. ALL VENTS THROUGH ROOF (V.T.R.) SHALL BE PROVIDED WITH #6 (24" X 24" SIZE) FLASHING. WHERE STANDING SEAM TYPE IS USED THE FLASHING SHALL BE IN ACCORDANCE WITH THE ROOFING MANUFACTURERS RECOMMENDATION AND AS DETAILED ON THE ARCHITECTURAL DRAWINGS. CLOSE COORDINATION WITH THE ROOFING CONTRACTOR SHALL BE MAINTAINED TO ASSURE THE VENT PENETRATION IS CENTERED WITHIN THE METAL ROOF PANELS. TYPICALLY FOR METAL OR OTHER SPECIAL MATERIAL, ROOFS - USE MANUFACTURED RUBBER BOOT WITH STAINLESS TEEL HARDWARE TYPE THAT IS ARCHITECT APPROVED AND MUST BE COMPATIBLE WITH ROOFING SYSTEM AND ROOF WARRANTY.
7. FLUSH VALVES SHALL BE MOUNTED SUCH THAT THE DIMENSION FROM FLUSH VALVE CENTERLINE TO FINISHED FLOOR SHALL BE 39". (DOES NOT APPLY TO ELECTRONIC FLUSH VALVES) WHERE HANDICAPPED GRAB BARS ARE INSTALLED ON BACK WALL AT CLOSET, FLUSH VALVE SHALL BE MOUNTED AT STANDARD HEIGHT. SEE SPECIFICATIONS AND WATER CLOSET DETAIL.
8. ○ WHERE THIS SYMBOL OCCURS ON THE DRAWINGS, REFERENCE SHOULD BE MADE TO THE KEYED NOTES ON THAT SAME SHEET AND THE CORRESPONDING NUMBER OF THAT NOTE.
9. WHERE PLUMBING FIXTURES ARE LOCATED ON EXTERIOR WALL, WATER PIPING SHALL BE INSTALLED ON THE THERMAL SIDE OF THE WALL INSULATION.
10. CLOSE COORDINATION AND COOPERATION SHALL BE MAINTAINED BETWEEN TRADES WITH REGARD TO PLUMBING, HVAC, FIRE PROTECTION AND ELECTRICAL PLANS.
11. PROVIDE CLEANOUT CLEARANCE IN ACCORDANCE WITH THE ARKANSAS STATE PLUMBING CODE, BUT DO NOT LOCATE IN FOOT TRAFFIC PATHWAYS. DO NOT LOCATE CLEANOUTS IN FLOORS WITH CARPET. (FIELD COORDINATE) LOCATE FLOOR CLEANOUT NEAR WALLS, IN JANITORS ROOM, STORAGE ROOM, ETC., DO NOT LOCATE NEAR DOORWAYS.
12. PROVIDE FIRE STOPPING OR FIRE STOP SLEEVE DEVICES AT ALL RATED ASSEMBLIES - SEE ARCHITECTURAL SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR DETAILS.
13. TRAP PRIMERS- LOCATE TRAP PRIMERS REASONABLY CLOSE TO PLUMBING FIXTURE (10' TO 20')- DO NOT CONNECT TRAP PRIMER TO WATER LINE LARGER THAN 1 1/2" SIZE- TRY TO LOCATE TRAP PRIMER LOWER THAN PLUMBING FIXTURES. FIELD VERIFY EXACT TRAP PRIMER LOCATIONS AND WATER PIPE ROUTING. TRAP PRIMER SHALL TYPICALLY BE PRECISION PLUMBING PRODUCTS MODEL # P2-500. WHERE FLOOR DRAINS OCCUR NEAR WATER CLOSETS - USE VACUUM BREAKER TRAP PRIMER - SLOAN "TP" - MODEL VBF-72A - EXPOSED 3/8" TUBING SHALL BE VERY MINIMAL AND CHROME PLATED WITH CAST CHROME FLANGE TO WALL.
14. COORDINATE EXACT LOCATIONS OF ALL PLUMBING PIPING WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
15. VERIFY WITH ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF ALL "ADA" PLUMBING FIXTURES
16. ALL SANITARY SEWER RISERS SHALL HAVE CLEANOUT AT THE BASE (WALL CLEANOUT OR FLOOR CLEANOUT)
17. ALL STORM DRAIN PIPING SHALL HAVE CLEANOUT PLUGS AT EACH 90° TURN ABV CEILINGS AND HAVE A FLOOR OR WALL CLEANOUT AT THE BASE OF ALL RISERS.
18. INSTALL PIPING EXPANSION JOINTS IN ALL PIPING THAT CROSSES BUILDING EXPANSION JOINTS. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS AND PLUMBING ROOF PLAN FOR BUILDING EXPANSION JOINT LOCATIONS.
19. TWO-WAY CLEANOUTS SHALL BE INSTALLED AT THE JUNCTION OF THE BUILDING DRAIN AND THE BUILDING SEWER (TYP ALL AREAS) - MUST BE INSTALLED TO MEET PLUMBING CODES, EVEN IF NOT SHOWN ON DRAWING - VERIFY AND COORDINATE WITH CIVIL UTILITY DRAWINGS.

## PLUMBING LEGEND

SYMBOL	DESCRIPTION		
	SOIL, WASTE, OR SANITARY SEWER		UNION
	SANITARY SEWER (ON SITE)	FD	FLOOR DRAIN
	SANITARY VENT	RD	ROOF DRAIN
	COMBINATION WASTE AND VENT	AD	ACCESS DOOR
	WATER (ON SITE)	VTR	VENT THRU ROOF
	COLD WATER	HB	HOSE BIBB
	HOT WATER	FPWH	FREEZE PROOF WALL HYDRANT
	HOT WATER RETURN	CO	CLEANOUT PLUG
	STORM DRAIN	FCO	FLOOR CLEANOUT
	INDIRECT DRAIN	AFCO	FLOOR CLEANOUT WITH ACID RESISTANT PIPING AND FITTINGS
	NATURAL GAS (LOW PRESSURE GAS)	WCO	WALL CLEANOUT
	FLOW DIRECTION	ECO	EXTERIOR CLEANOUT
	GATE VALVE		DENOTES - SANITARY VENT STACK THRU ROOF
	GLOBE VALVE		NEW CONNECTION TO EXISTING
	CHECK VALVE		EXISTING PIPING TO BE REMOVED OR ABANDONED
	BALL VALVE		EXISTING PIPING TO REMAIN
	PLUG COCK - GAS COCK		CAP AND SEAL AIR OR WATER TIGHT
	PRESSURE REDUCING VALVE		TERMINATION POINT OF DEMOLITION
	STRAINER		

## FIXTURE LEGEND

SYMBOL	DESCRIPTION
	NEW FIXTURE
	ROUGH IN AND FINAL CONNECT ONLY
	EXISTING FIXTURE TO REMAIN
	EXISTING FIXTURE TO BE REMOVED
	EXISTING FIXTURE (RELOCATED, OR REPAIRED - SEE NOTES)

Rev.	Date	Revision/Description

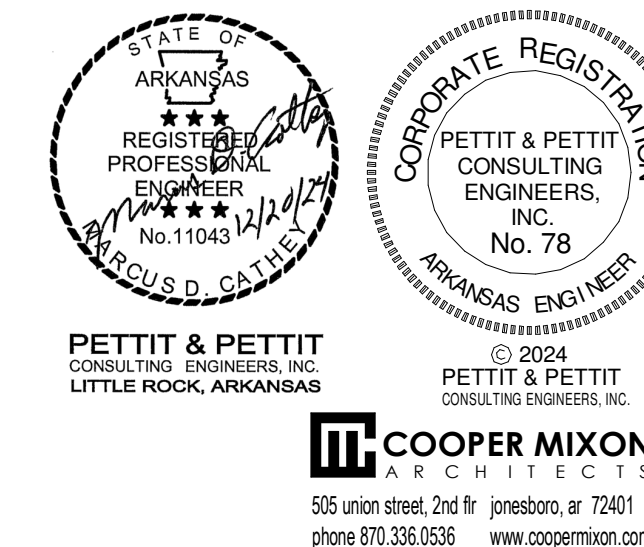
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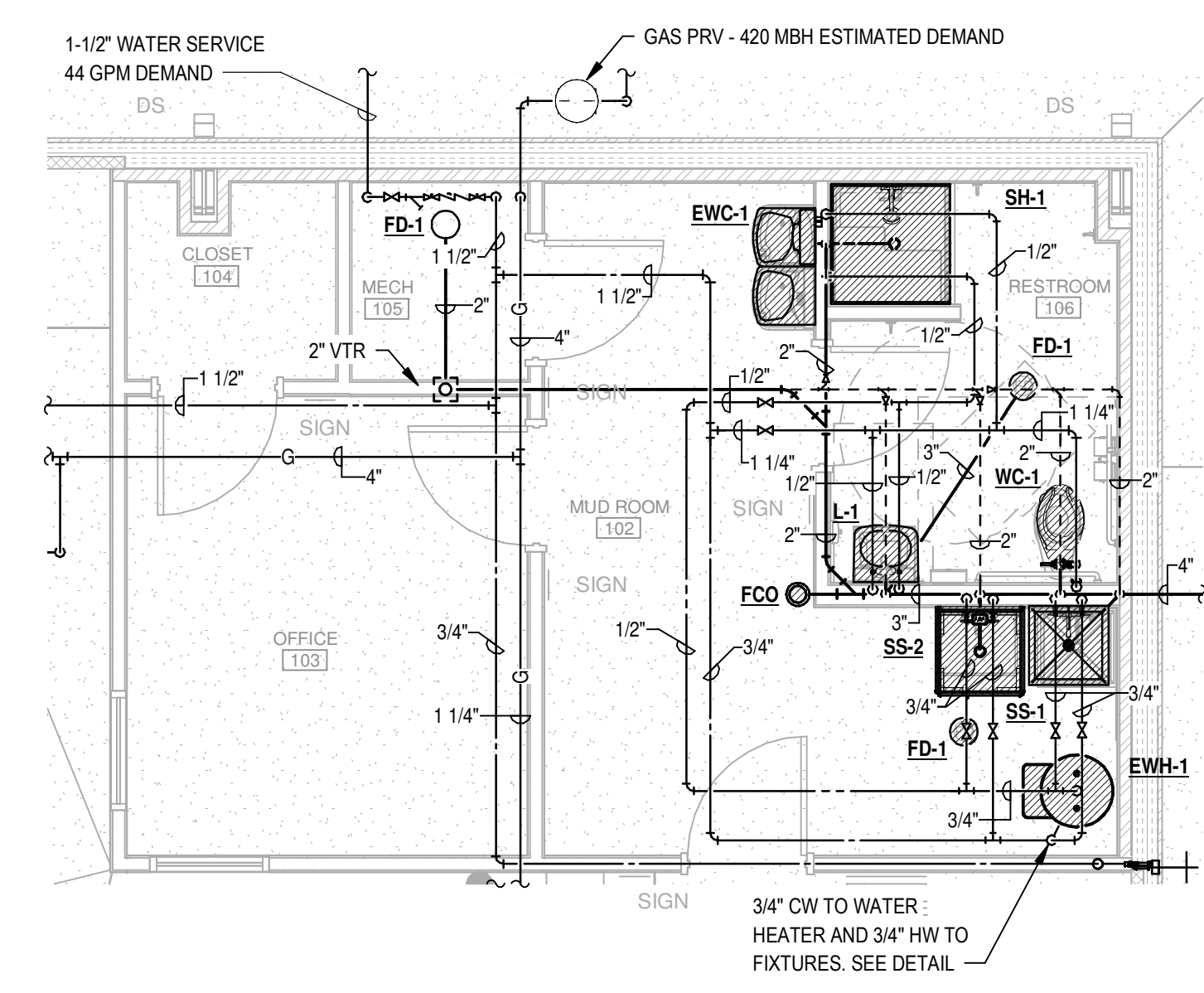
### CONSTRUCTION DOCUMENTS

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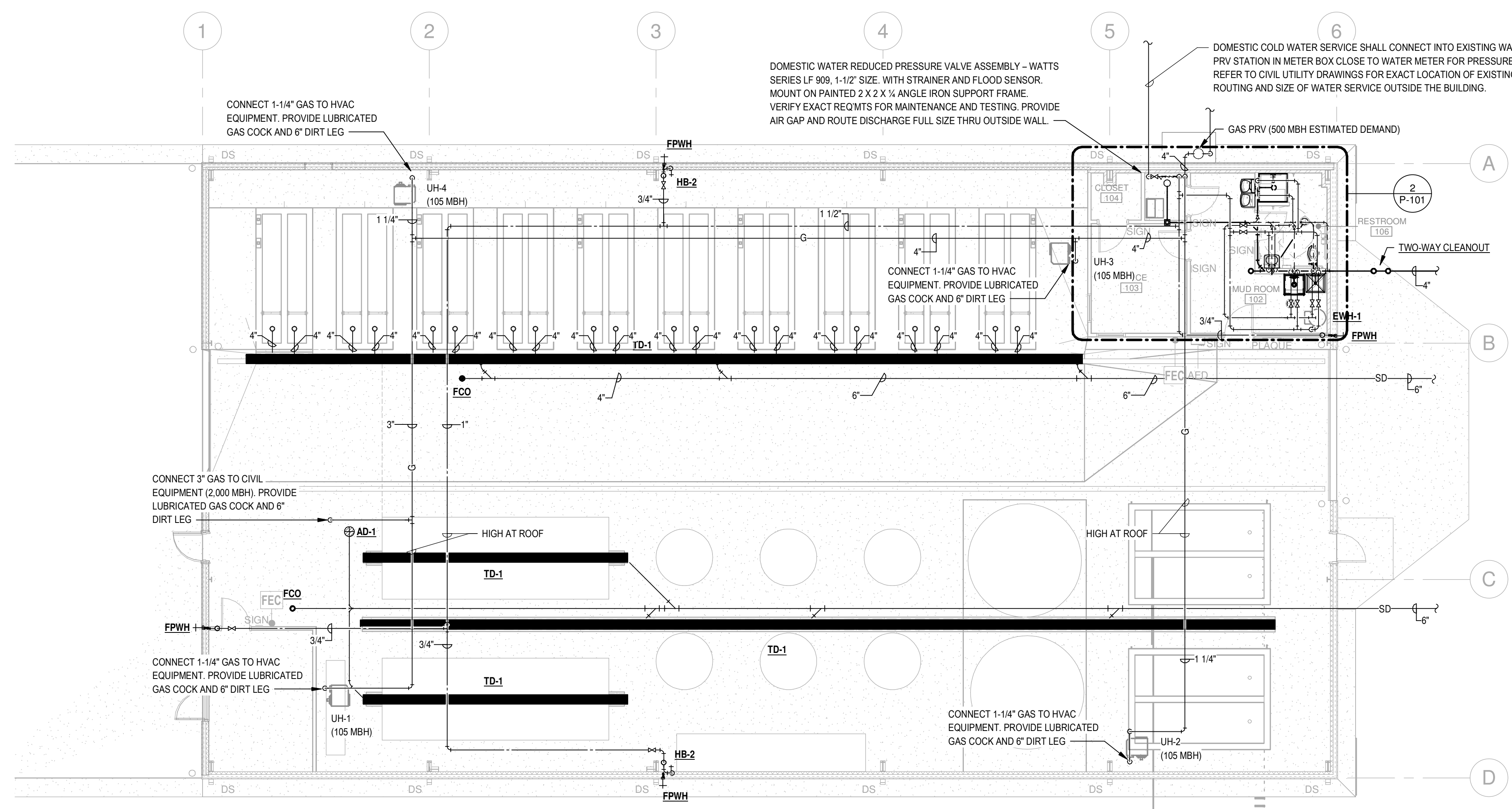
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Project No: ARKGAMEF.0003 WR  
Drawn By: JDB  
Checked By: MDC  
Sheet Title:  
PLUMBING GENERAL NOTES AND LEGENDS

Sheet Number:  
**P-000**

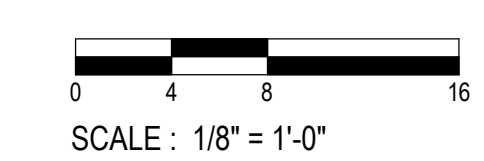




**2 ENLARGED FLOOR PLAN - PLUMBING**  
 1/4" = 1'-0"



**1 FLOOR PLAN - PLUMBING**  
 1/8" = 1'-0"



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 LITTLE ROCK, ARKANSAS

STATE OF ARKANSAS  
 REGISTERED PROFESSIONAL ENGINEER  
 No. 11045  
 ARTHUR D. CATINO

CORPORATE REGISTRATION  
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Rev.	Date	Revision Description

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 FLOOR PLAN - PLUMBING

Sheet Number:  
**P-101**

Rev.	Date	Description

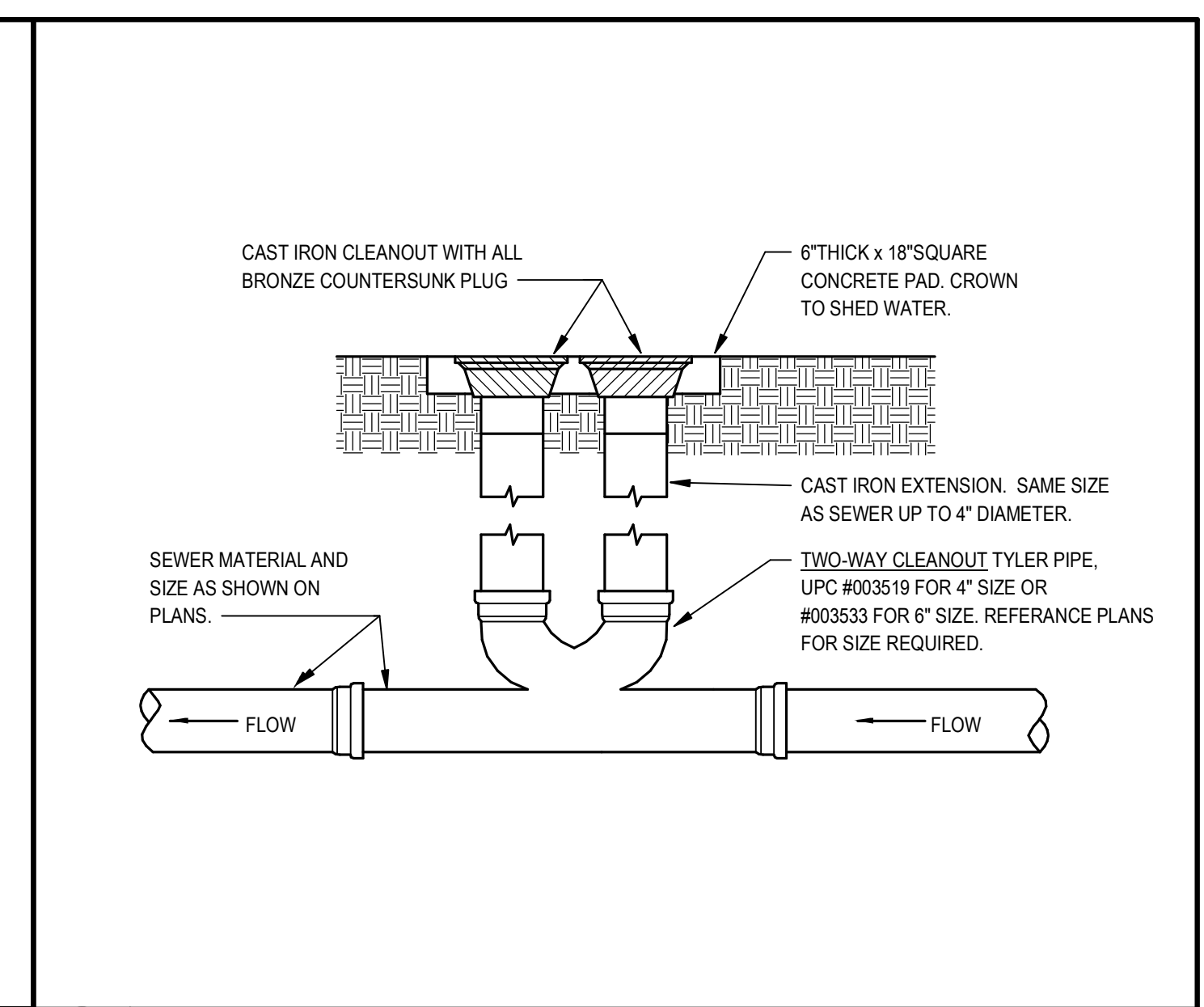
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**CONSTRUCTION DOCUMENTS**

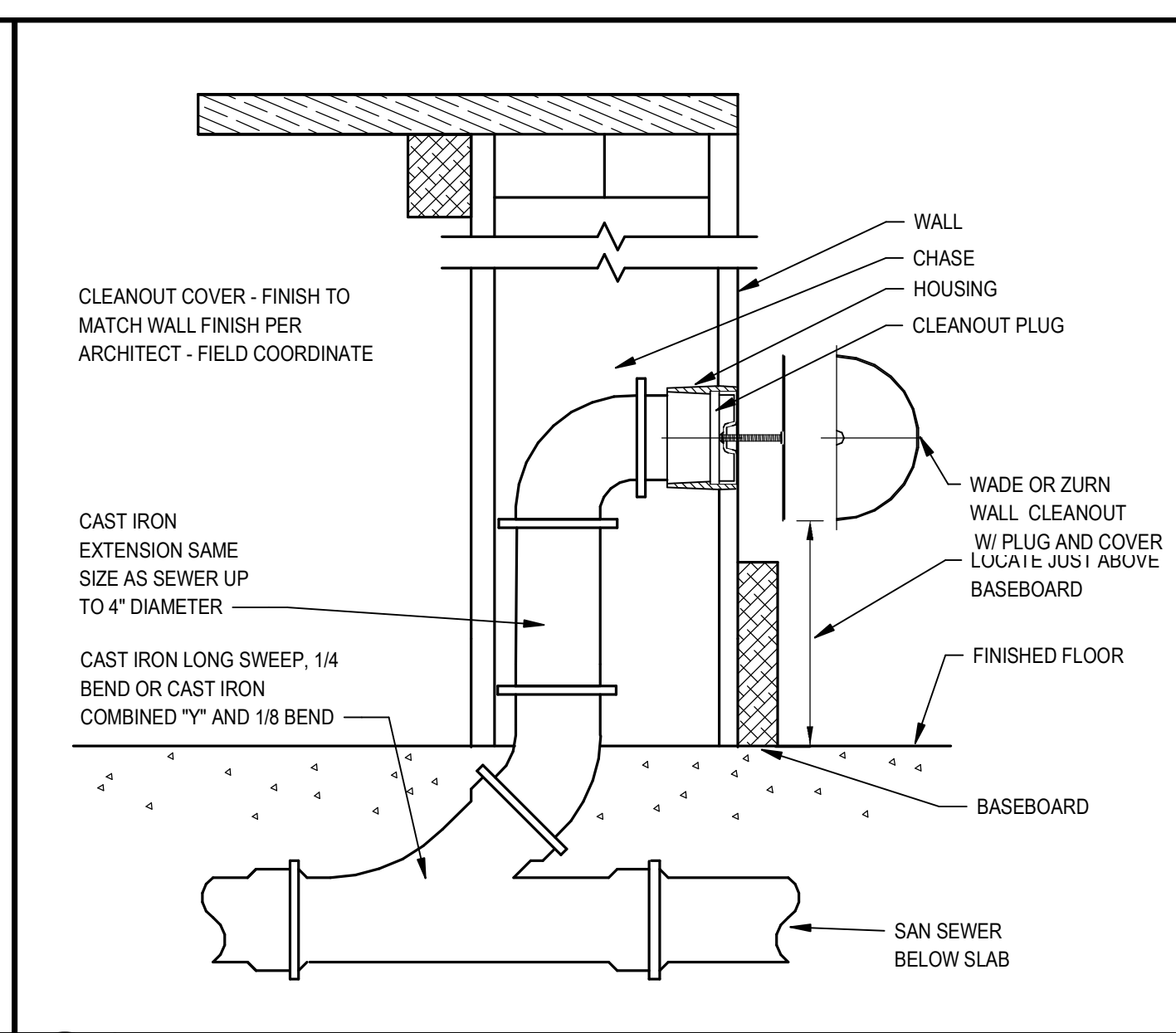
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Issue Date: 12/20/2024  
 Project No: ARKGAMEF.0003 WR  
 Drawn By: JDB  
 Checked By: MDC  
 Sheet Title: PLUMBING DETAILS

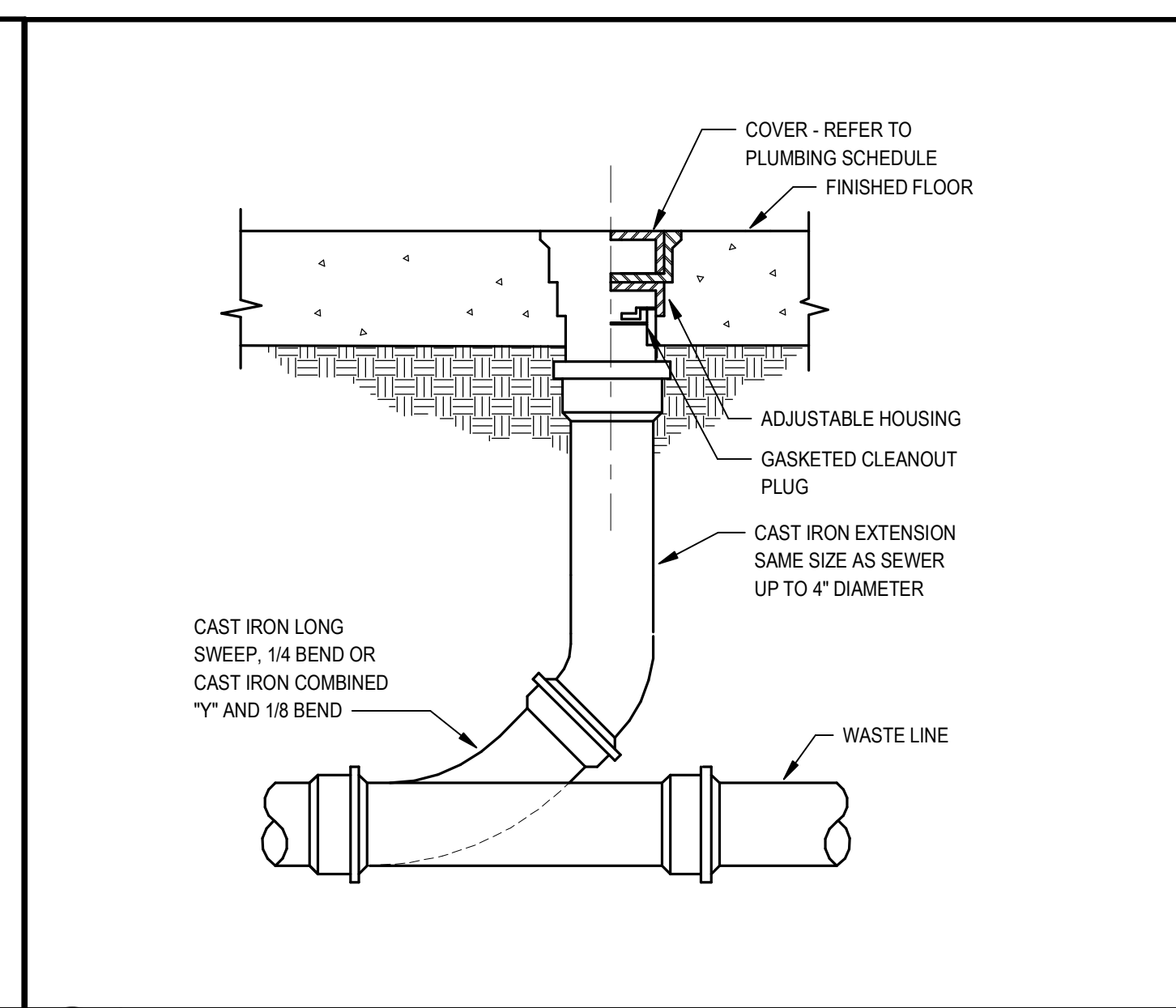
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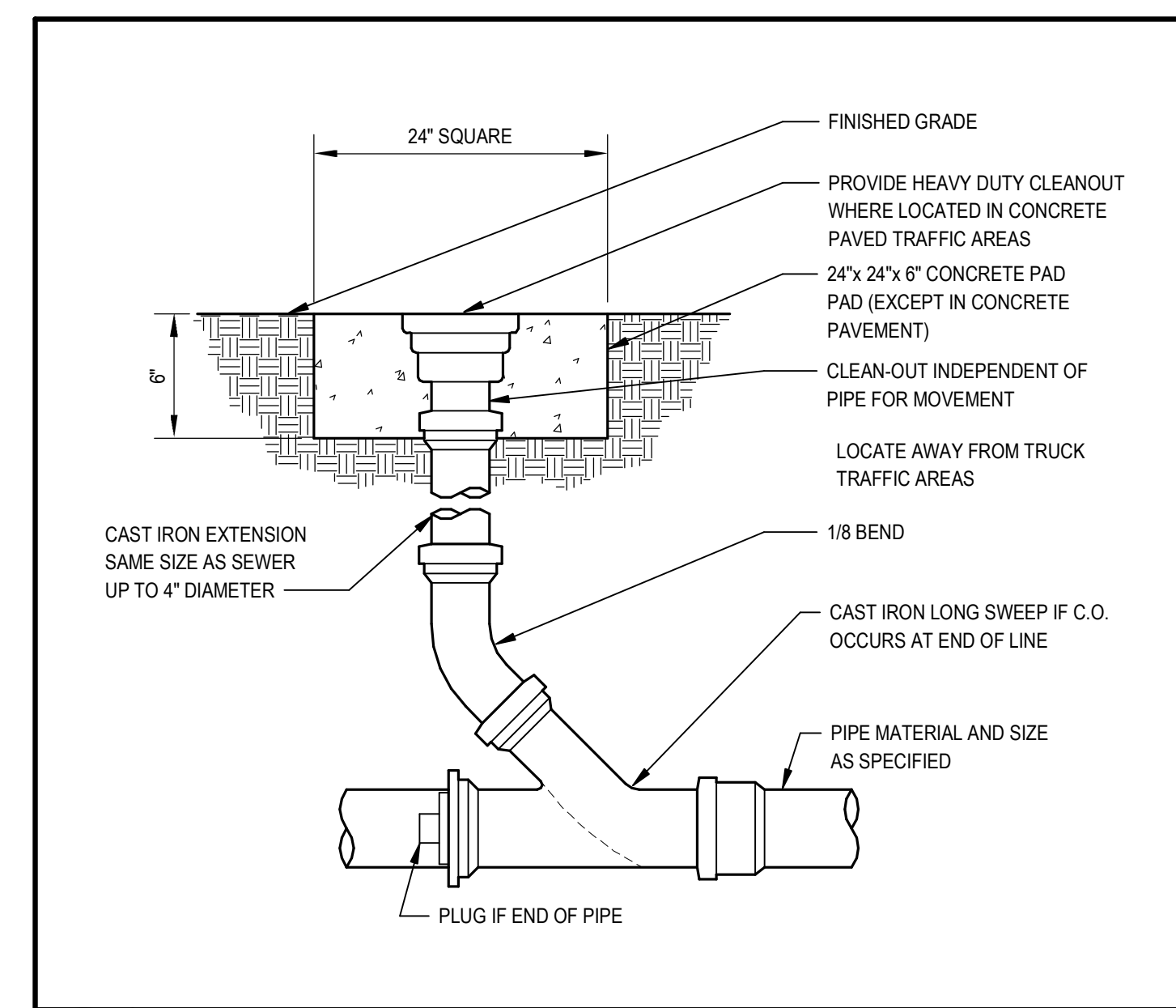
**4 TWO-WAY CLEANOUT TO GRADE**  
 SCALE: NONE



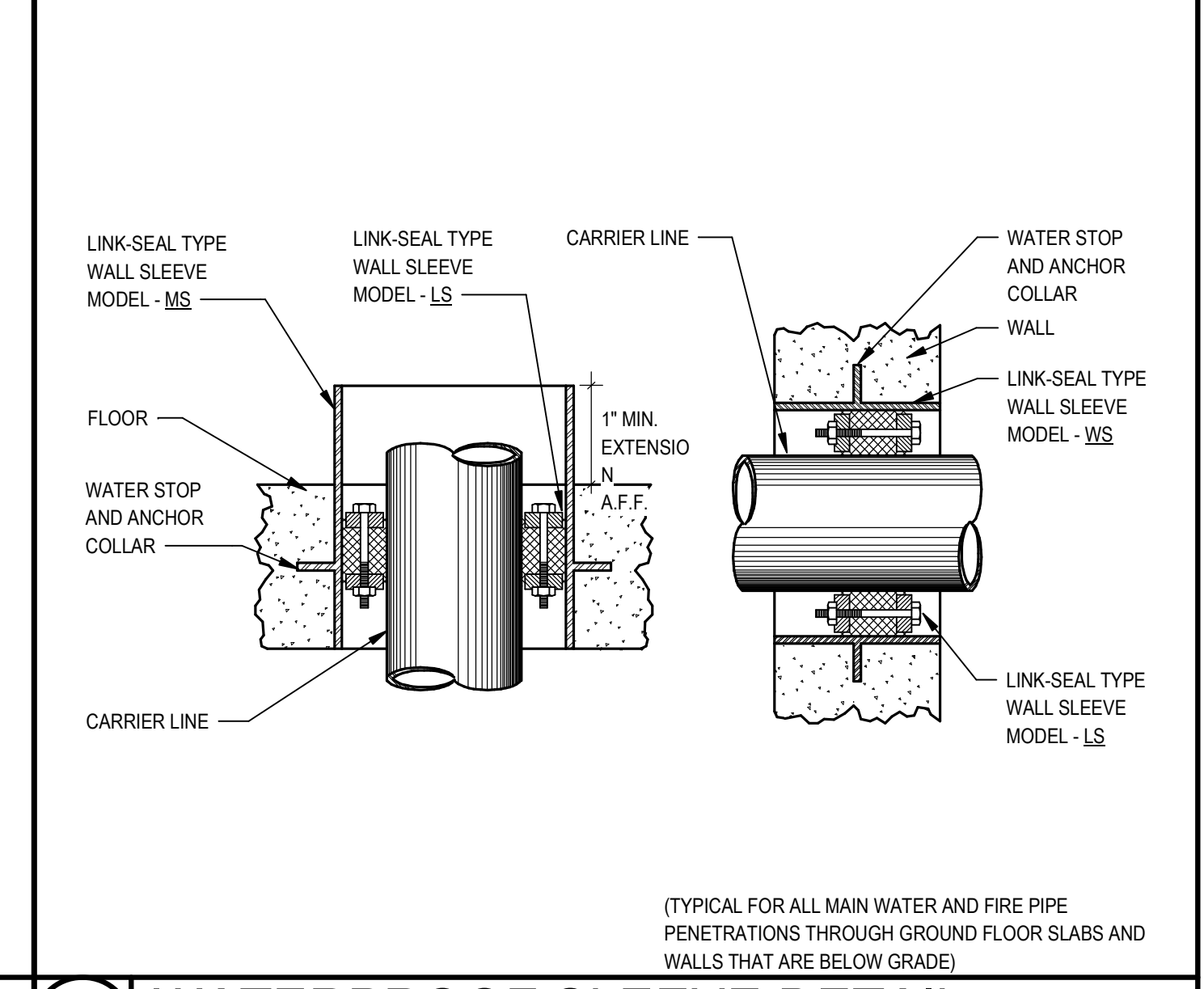
**3 WALL CLEANOUT DETAIL**  
 SCALE: NONE



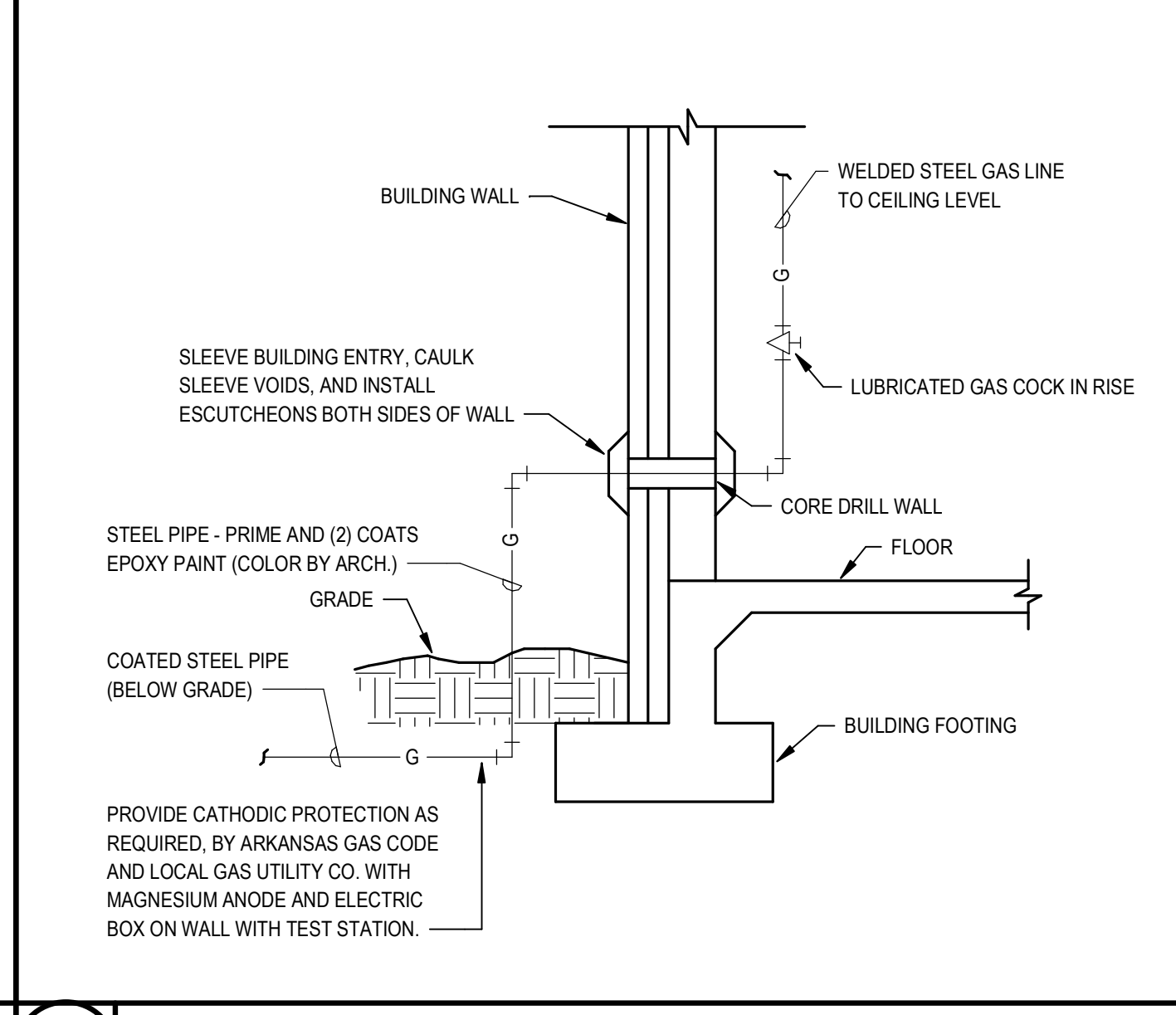
**2 FLOOR CLEANOUT DETAIL**  
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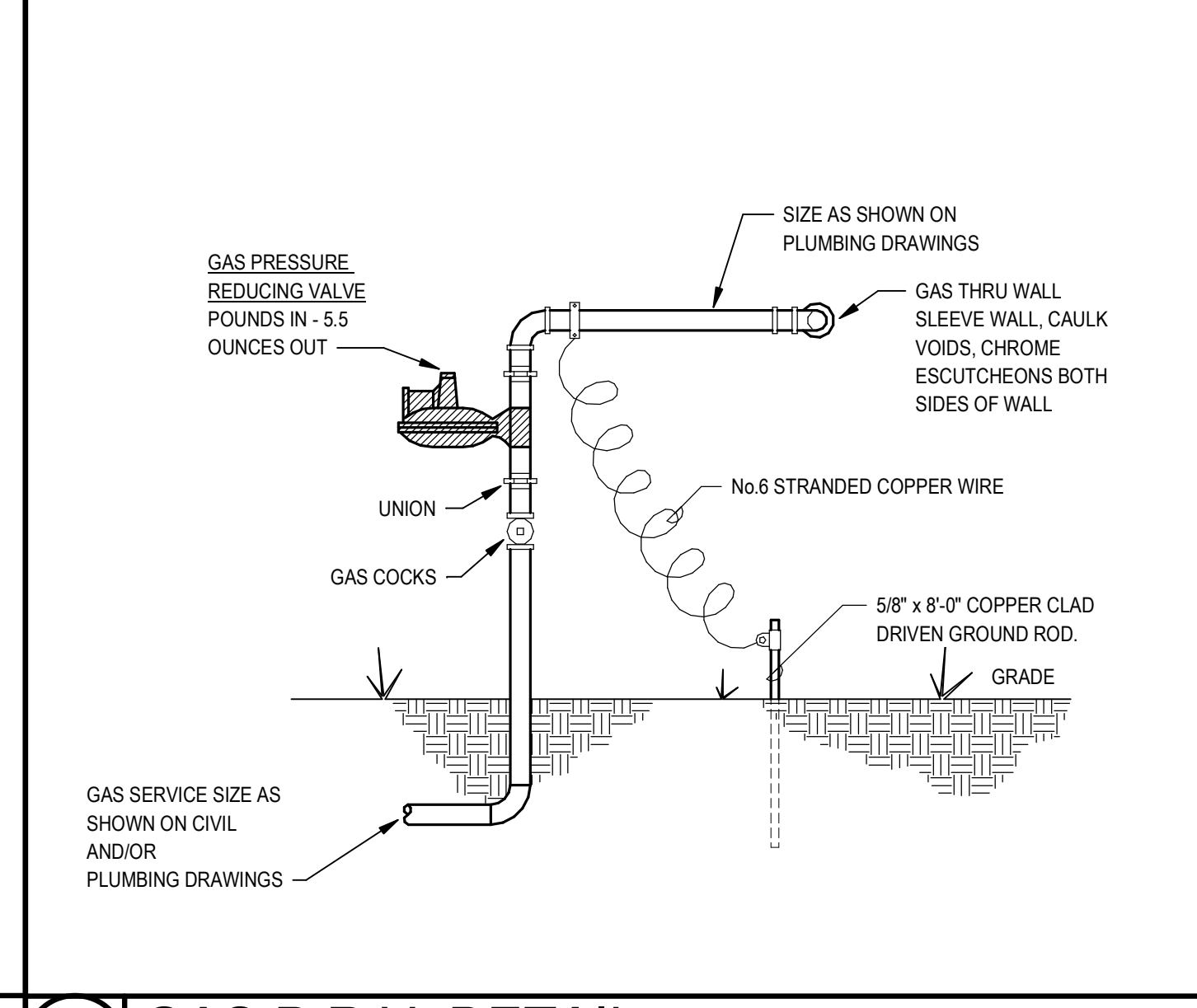
**1 EXTERIOR CLEANOUT DETAIL**  
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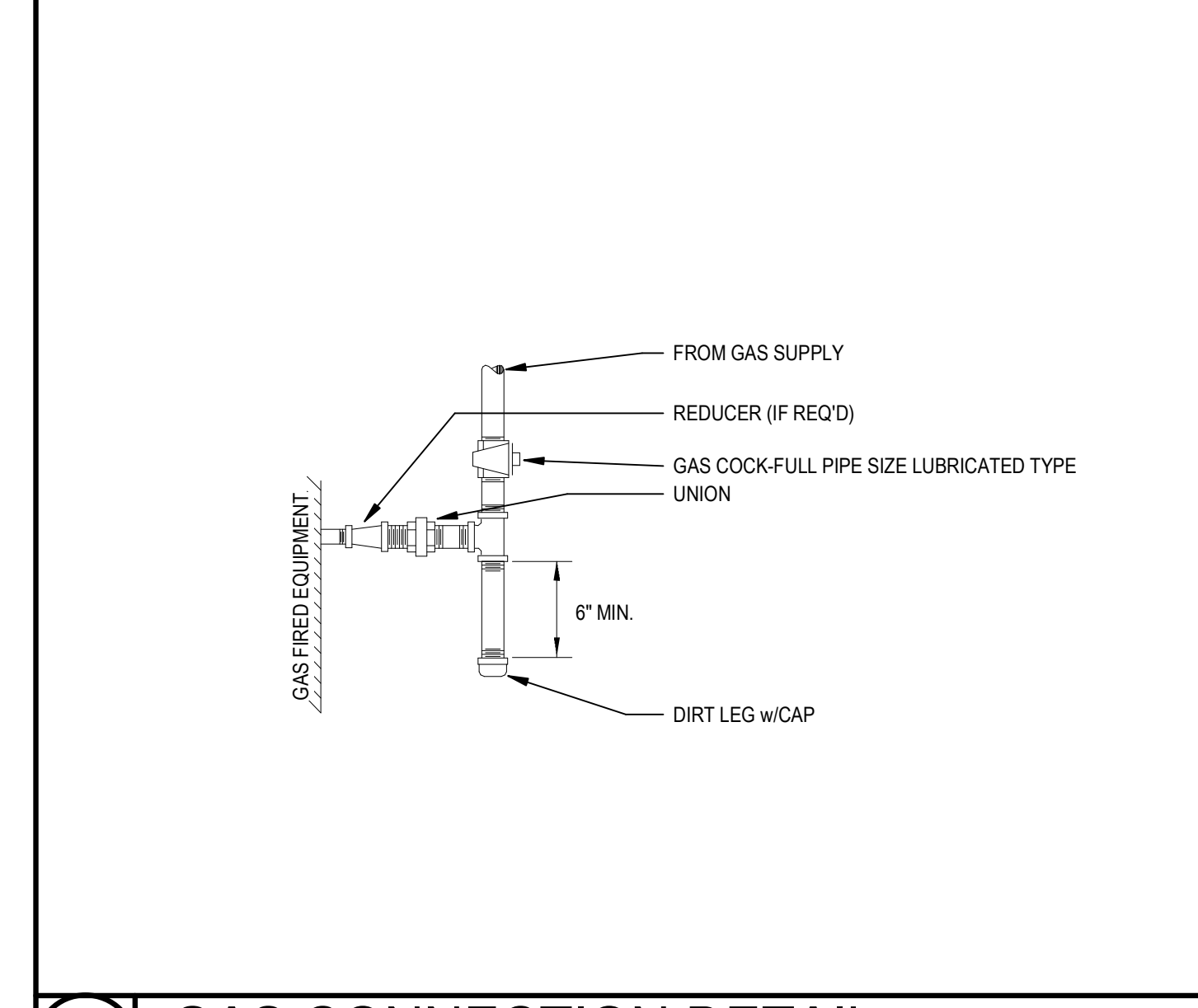
**8 WATERPROOF SLEEVE DETAIL**  
 SCALE: NONE



**7 GAS SERVICE TO BUILDING DETAIL**  
 SCALE: NONE



**6 GAS P.R.V. DETAIL**  
 SCALE: NONE



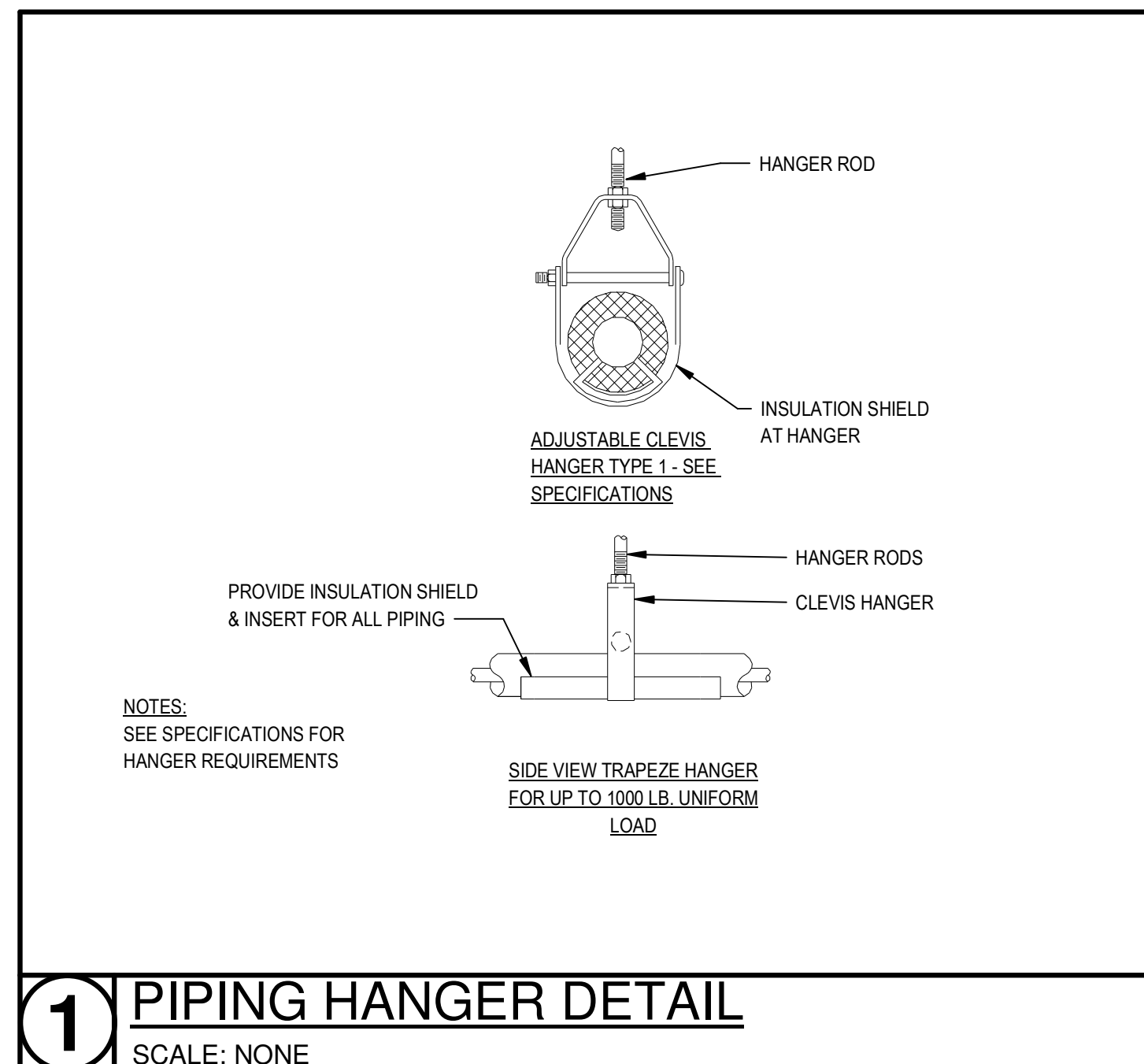
**5 GAS CONNECTION DETAIL**  
 SCALE: NONE

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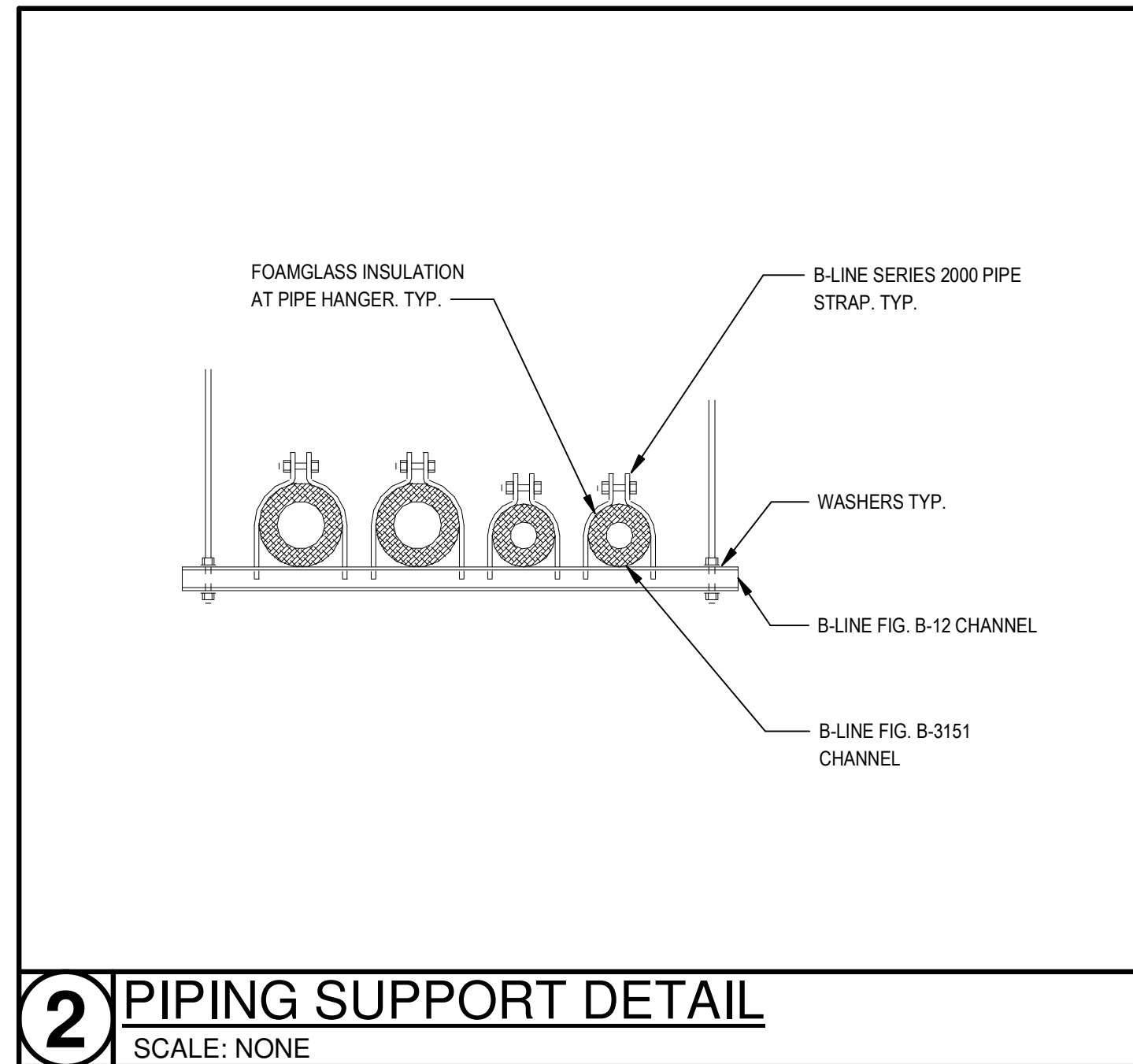
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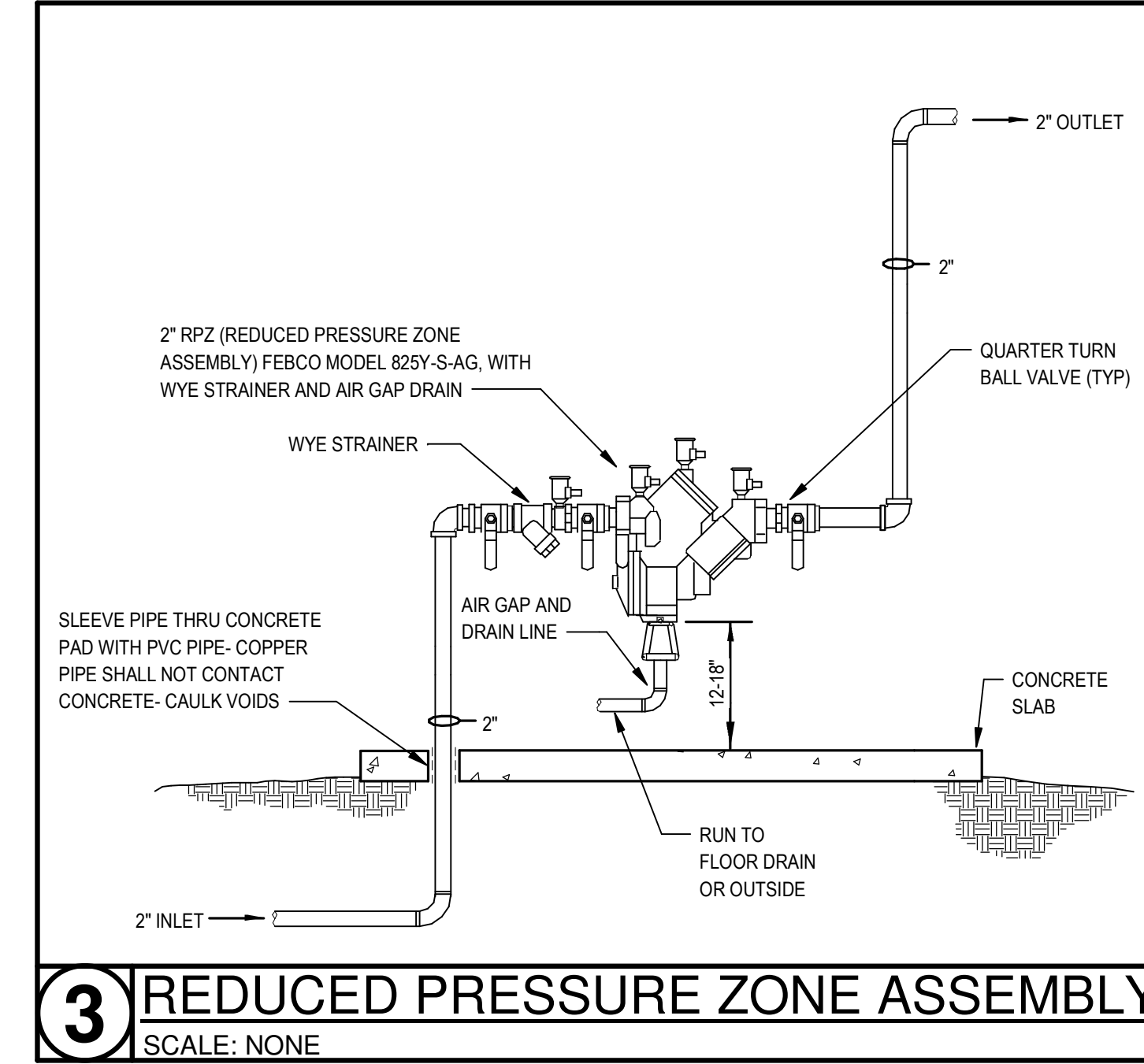
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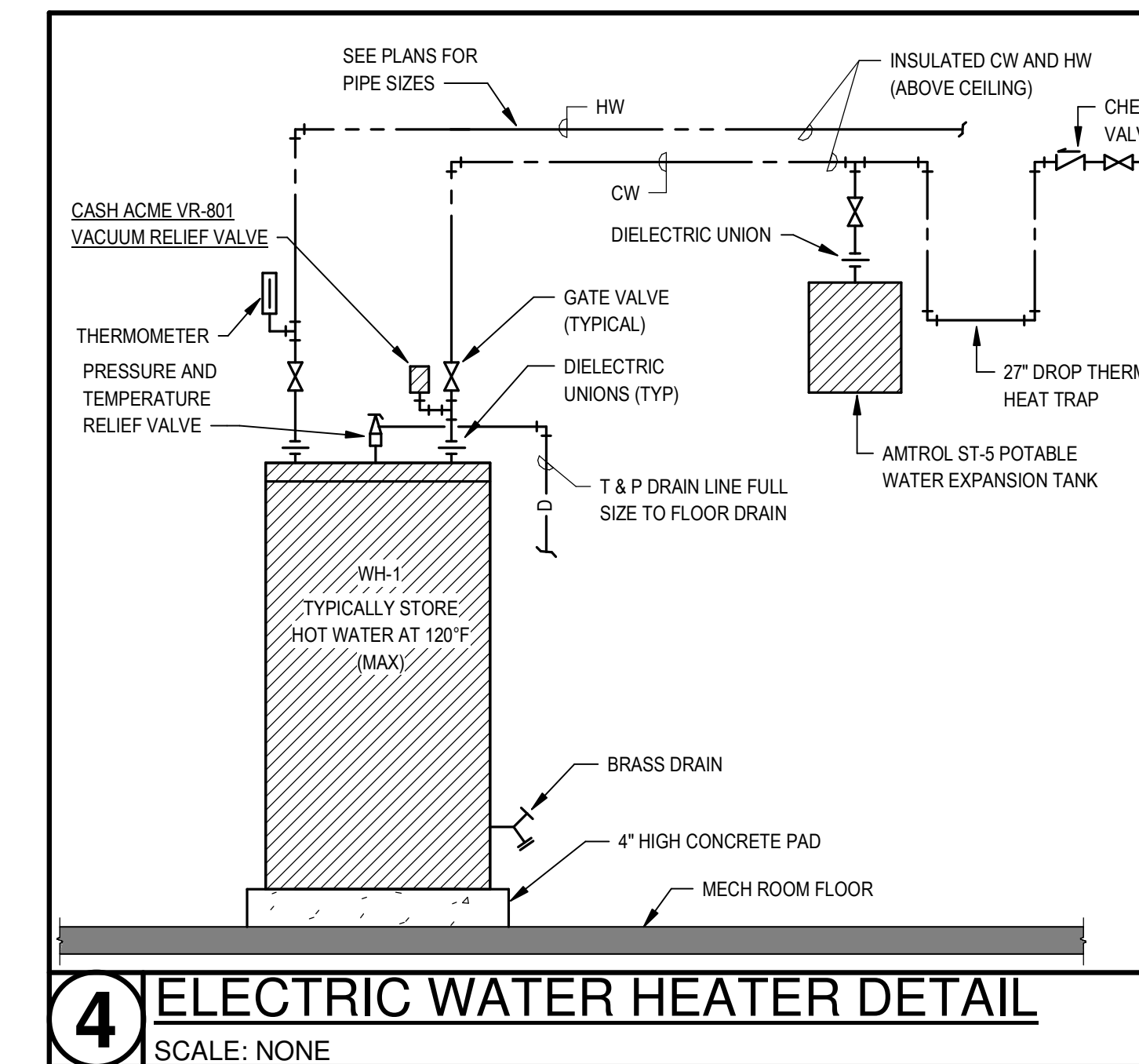
**1** PIPING HANGER DETAIL  
SCALE: NONE



**2** PIPING SUPPORT DETAIL  
SCALE: NONE



**3** REDUCED PRESSURE ZONE ASSEMBLY  
SCALE: NONE



**4** ELECTRIC WATER HEATER DETAIL  
SCALE: NONE

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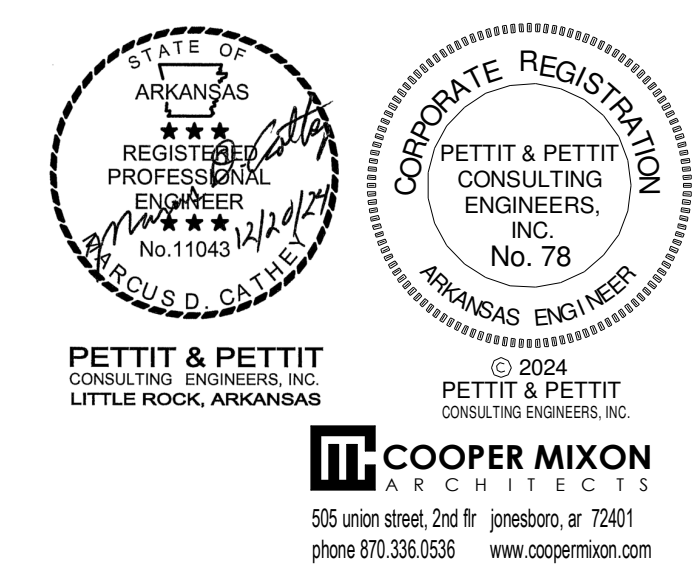
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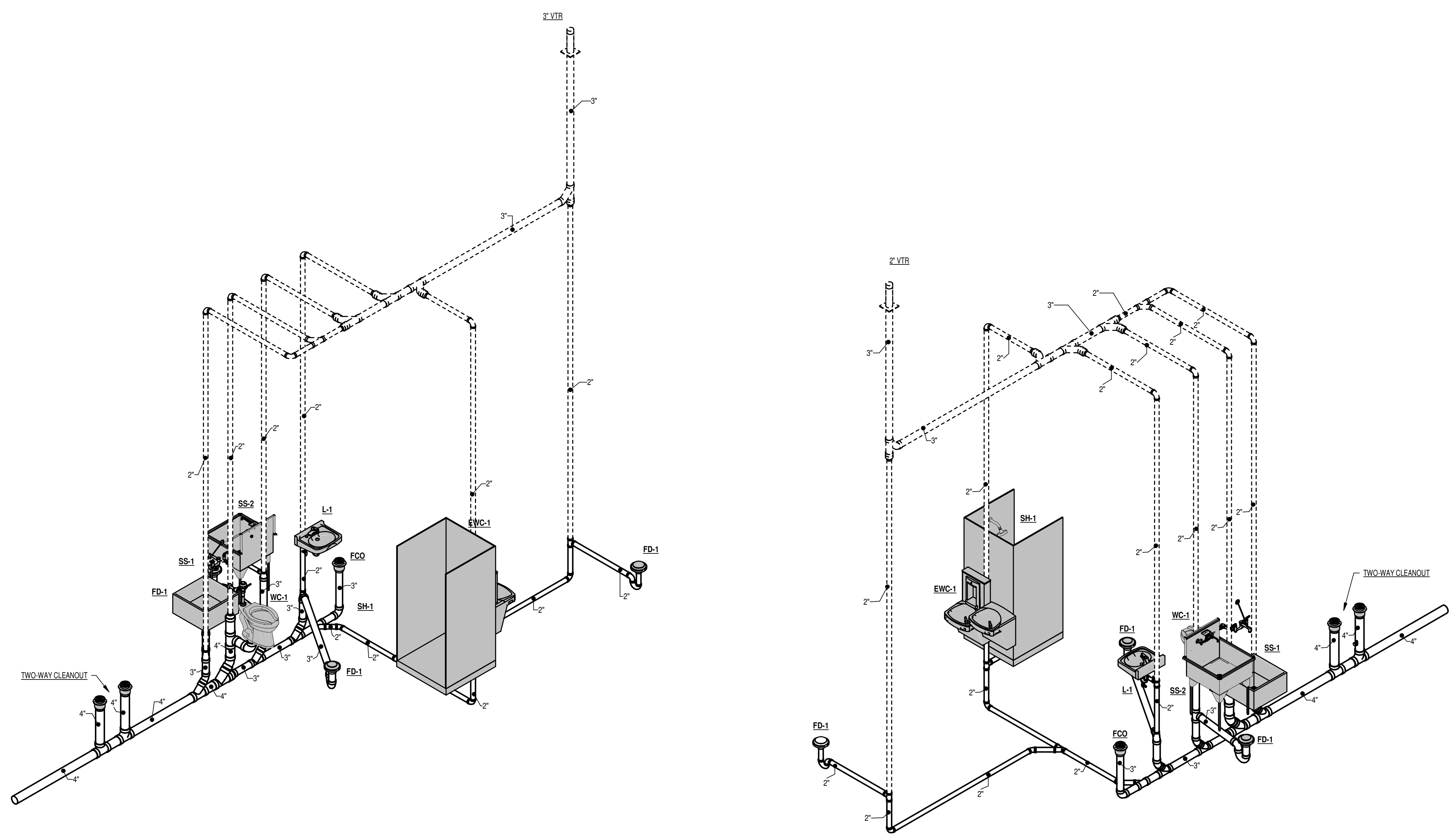
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Sheet Title:  
PLUMBING DETAILS

Sheet Number:  
**P-202**



NOTE: ALL FLOOR DRAINS SHALL HAVE TRAP PRIMERS. LOCATE TRAP PRIMER DEVICES IN MECHANICAL ROOMS AND JANITORS CLOSETS WHERE PRACTICAL. IN FINISHED AREAS PROVIDE TRAP PRIMER IN WALL WITH ACCESS PANELS. FIELD VERIFY EXACT LOCATIONS AND WATER PIPE ROUTING. NOT ALL WATER TO TRAP PRIMER IS SHOWN.



**WASTE & VENT RISER**



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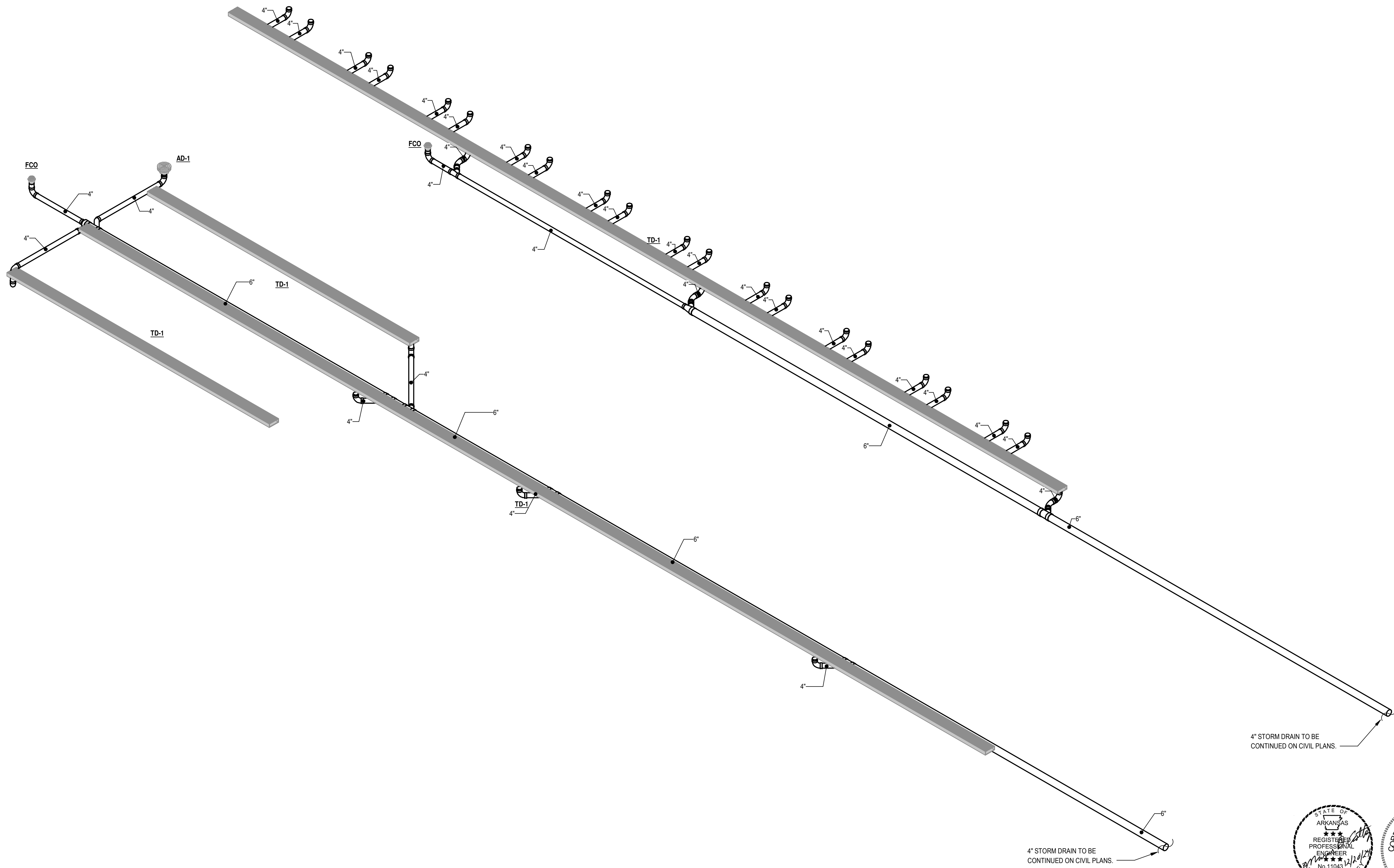
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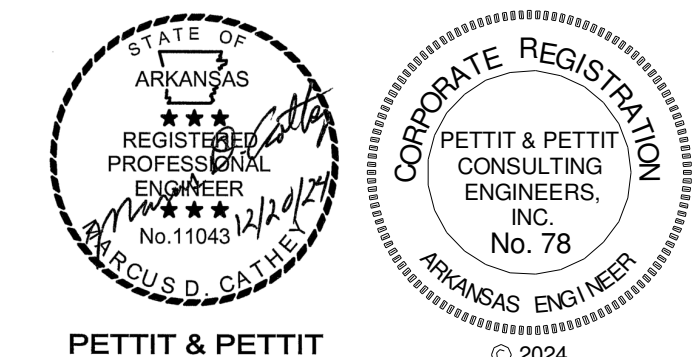
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 Sheet Title: PLUMBING RISERS

Sheet Number:  
**P-301**





**WASTE & VENT RISER**



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**SYSTEM UPGRADES AT CHARLIE CRAIG HATCHERY FOR ARKANSAS GAME & FISH**

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 ENGINEERS | ARCHITECTS | CONSULTANTS | PLANNERS  
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 Sheet Title: PLUMBING RISERS

Sheet Number:  
**P-302**

977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719

EQUIPMENT (BY OTHERS) - ROUGH IN AND MAKE FINAL CONNECTIONS FOR EQUIPMENT AS INDICATED ON PLANS. FURNISH MCGUIRE, ZURN, OR KOHLER STRAIGHT STOP, (1/2" IPS) OR FEMALE INLET AND OUTLET AND POLISHED CHROMIUM PLATED CAST BRASS, MCGUIRE HEAVY DUTY (1 1/4" OR 1 1/2") P-TRAP WITH CLEANOUT AND OTHER TRIM AS INDICATED ON PLANS. ALL EXPOSED PIPING SHALL BE CHROME PLATED AND ESCUTCHEONS SHALL BE C.P. CAST BRASS SET SCREW TYPE.

PLUMBING FIXTURE SCHEDULE													
TYPE MARK	- MANUFACTURER -	- MODEL -	- DESCRIPTION -	- ADA COMPLIANT -	- TRIM -	- SUPPLIES -	- TRAP -	- SUPPORT -	- REMARKS -	CW SUPPLY	HW SUPPLY	VENT	WASTE
EW-1	ELKAY	LZSTLBWSSK	ELKAY EZH2O BOTTLE FILLING STATION WITH BI-LEVEL INTEGRAL SWIRLFLO FOUNTAIN, REFRIGERATED, FILTERED, STAINLESS. CHILLING CAPACITY OF 8.0 GPH OF 50 DEGREE DRINKING WATER, BASED ON 80 DEGREE INLET WATER AND 90 DEGREE AMBIENT. ANTIMICROBIAL, GREEN TICKER HANDS FREE, LAMINAR FLOW, REAL DRAIN, ELECTRONIC BOTTLE FILLER SENSOR WITH MECHANICAL FRONT BUBBLER BUTTON ACTIVATION, WALL MOUNT (MOUNTING FRAME INCLUDED), UL CERTIFIED, LEAD FREE.	YES	MCGUIRE LFST17K	MCGUIRE H-ST12LK HEAVY CAST BRASS STRAIGHT STOP WITH LOOSE KEY HANDLE, 1/2 INCH SIZE.	MCGUIRE 8088	ELKAY MFWS210		1/2		2	2
L-1	KOHLER	K-2032	GREENWICH WALL MOUNTED, 20 INCH BY 18 INCH SIZE, VITREOUS CHINA WITH BACK, RECTANGULAR BASIN, SPLASH LIP, FRONT OVERFLOW AND TWO SOAP DEPRESSIONS.	YES	T&S BRASS MODEL B-2711-VF05, DECK MOUNTED SINGLE LEVER FAUCET, CHROME PLATED BRASS BODY WITH INTEGRAL SPOUT, B-0199-BF05 0.4 GPM VANDAL RESISTANT AERATOR, CERAMIC CARTRIDGE WITH ADJUSTABLE TEMPERATURE LIMIT STOP, MCGUIRE 155-A DRAIN WITH PERFORATED STRAINER AND 1-1/4 INCH TAILPIECE, ACORN T-70 THERMOSTATIC MIXING VALVE.	MCGUIRE H2167LK 1/2 INCH IPS HEAVY CAST BRASS ANGLE STOP, LOOSE KEY HANDLE, ANNEALED VERTICAL TUBE, CHROME PLATED CAST BRASS SET SCREW ESCUTCHEON, C.P. BRASS NIPPLE TO WALL.	MCGUIRE 8872 (1-1/4 INCH) POLISHED CHROME PLATED CAST BRASS ADJUSTABLE "P" TRAP WITH CLEANOUT AND 17 GAGE TUBING TO WALL WITH CHROME PLATED CAST BRASS SET SCREW ESCUTCHEON.	ZURN Z-1231 CONCEALED ARM CARRIER HAVING STEEL UPRIGHTS WITH ADJUSTABLE HEADERS.	NOTE: ALL EXPOSED SUPPLY (HOT AND COLD WATER) AND DRAIN PIPING SHALL BE INSULATED TO MEET ADA REQUIREMENTS. P-TRAP AND ANGLE VALVE ASSEMBLIES SHALL BE COVERED WITH MOLDED, ANTI-MICROBIAL TRUEBRO, INC. 'LAV-GUARD' MODEL #102 (VERIFY EXACT MODEL REQUIRED), COLOR GREY. COVER SHALL BE SECURED WITH SNAP-CLIPS. ANGLE STOPS SHALL HAVE LOCK-LID ACCESS COVERS.	1/2	1/2	2	2
SH-1	DELTA	B12205-3636-WH & B12135-3636-WH	DELTA CLASSIC 500 SHOWER BASE AND THREE PIECE SHOWER WALL KIT, CAULKLESS INSTALLATION, TEXTURED BOTTOM, HIGH GLOSS MATERIAL, WHITE FINISH. IAPMO Z124 COMPLIANT. PLUMBING CONTRACTOR TO PROVIDE AND INSTALL SYMONS ORIGINS SHOWER SYSTEM WITH PRESSURE BALANCING SHOWER VALVE, ADJUSTABLE STOP SCREW, INTEGRAL VOLUME CONTROL, 1.5 GPM FLOW RESTRICTOR, VANDAL RESISTANT, INTEGRAL SERVICE STOPS, POLISHED CHROME.	NO	ZURN ZN-415BZ1-VP CAST IRON DRAIN, 5" POLISHED NICKEL BRONZE "TYPE B" STRAINER, ADJUSTABLE COLLAR WITH SEEPAGE SLOTS, VANDAL PROOF.	INTEGRAL				1/2	1/2	2	2
SS-1	STERN WILLIAMS	SB-900	'SERVICE' MOP SINK, 24 INCH X 24 INCH X 12 INCH, PRECAST TERRAZZO, WITH ONE PIECE STAINLESS STEEL CAST INTEGRAL CAP ON ALL FOUR SIDES AND INTEGRAL CAST BRASS DRAIN WITH S.S. STRAINER, 3 INCH OUTLET. PROVIDE T-40' MOP HANGER, T-35' HOSE, AND 8P' STAINLESS STEEL BACK SPLASH PANELS.		T&S B-0665-BSTP FAUCET, POLISHED CHROME FINISH, INTEGRAL STOPS, TOP BRACE, LEVER HANDLES, VACUUM BREAKER, 8 INCH CENTERS.		CAST IRON 3 INCH SIZE, DEEP SEAL TYPE BELOW FLOOR.	FLOOR MOUNTED		3/4	3/4	2	3
SS-2	FIAT	FL-1	SERV-A-SINK, WHITE MOLDED STONE, 20-1/4 INCH X 17-1/4 INCH X 13 INCH, EASY LEVELING ONE PIECE LEGS, PROVIDE FL1 HARDWARE PACKAGE, A1 - 4" FAUCET WITH CP BLADE HANDLES.			MCGUIRE H2167LK 1/2 INCH IPS HEAVY CAST BRASS ANGLE STOP, LOOSE KEY HANDLE, ANNEALED VERTICAL TUBE, CHROME PLATED CAST BRASS SET SCREW ESCUTCHEON, CHROME PLATED BRASS NIPPLE TO WALL.	MCGUIRE 8912 (1-1/2 INCH) POLISHED CHROME PLATED CAST BRASS ADJUSTABLE TRAP WITH CLEANOUT AND 17 GAGE TUBING TO WALL WITH CHROME PLATED CAST BRASS SET SCREW ESCUTCHEONS.	FLOOR MOUNTED		3/4	3/4	2	2
WC-1	KOHLER	K-96057	HIGHCLIFF ULTRA, VITREOUS CHINA, SIPHON JET, 1.6 GPF, 12 INCH ROUGH IN, ELONGATED RIM, FLOOR MOUNTED, 1-1/2 INCH TOP SPUD BOWL, BOLT CAPS, OLSONITE 95-SS 'INDUSTRIAL' SEAT, FINISH WHITE, EXTRA HEAVY DUTY PLASTIC FOR ELONGATED BOWL, OPEN FRONT WITH CONCEALED CHECK HINGE, SELF-SUSTAINING FEATURE AND STAINLESS STEEL HINGE POST.	YES	SLOAN 111-1.6-C1-YC-YK "REGAL" EXPOSED FLUSH VALVE, ANGLE STOP, VACUUM BREAKER, 1-1/2 INCH TOP SPUD - 1.6 GPF, WALL FLANGE, SET SCREW.		INTEGRAL WITH FIXTURE	FLOOR MOUNTED	PROVIDE SLOAN MODEL VBF-72-A VACUUM BREAKER TRAP PRIMER ACCESSORY AS REQUIRED IN RESTROOMS WITH FLOOR DRAIN.	1-1/4		2	4

PLUMBING SPECIALTIES				
TYPE MARK	- MANUFACTURER -	- MODEL -	- DESCRIPTION -	- REMARKS -
AD-1	WATTS	FD-340-Y-1.5-6-SB	12 INCH FIXED TOP CAST IRON AREA DRAIN, NICKEL BRONZE VANDAL PROOF TOP, SEDIMENT BUCKET, SHALLOW BODY. PROVIDE CHERNE MODEL 270245 PLUG.	
FCO	ZURN	ZN-1400-BP-VP	LEVELTROL, CAST IRON, GASKETED HUB OUTLET, THREADED ADJUSTABLE HOUSING, BRONZE PLUG, NICKEL BRONZE SCORAIATED TOP, VANDAL PROOF SCREWS.	
FD-1	ZURN	ZN-415B-VP	<varies>	TYPICAL TOILET DRAIN. VERIFY LOCATIONS WITH ARCHITECTURAL DRAWINGS. ALL FLOOR DRAINS SHALL BE ACCESSORIZED FOR VANDAL PROOF INSTALLATION AND SHALL HAVE 'PRO-SET' TRAP GUARDS.
FPWH	ZURN	Z-1300	ECOLOTRON, ANTI-SIPHON, NON-FREEZE, 3/4 INCH SIZE NICKEL BRONZE CASING AND ALL BRONZE INTERIOR PARTS AND NON TURNING OPERATING ROD WITH FREE FLOATING COMPRESSION CLOSURE VALVE, NICKEL BRONZE FACE, INTEGRAL BACKFLOW PREVENTER, UNION ELBOW INLET, WALL CLAMP AND KEY HANDLE. BOX FACE AND HINGED COVER SHALL BE NICKEL BRONZE COMPLETE WITH OPERATING KEY AND WATER CAST ON COVER.	
HB-2	WOODFORD	79	WALL HYDRANT, BACKFLOW PROTECTED, MILD CLIMATE, AUTOMATIC DRAINING, LOOSE KEY, BRASS VALVE BODY.	
TD-1	ZURN	ZC125	TRENCH DRAIN SHALL CONSIST OF STANDARD HPP GRATES THAT LOCK DOWN WITH LOCKDOWN BARS TO THE CONCRETE CHANNEL (CONCRETE CHANNEL SHALL BE PROVIDED BY OTHERS) AND IS NOT INTENDED FOR DYNAMIC TRAFFIC LOADINGS. ZURN 4-1/8 (105) WIDE REVEAL LONGITUDINAL HEELPROOF GRATE IS RATED CLASS A PER THE DIN EN1433 TOP LOAD CLASSIFICATION. SUPPLIED IN 20 (508) NOMINAL LENGTHS WITH 25 (6) WIDE SLOTS, AND .75 (19) BEARING DEPTH. GRATE HAS AN OPEN AREA OF 18.57 SQ. IN PER FT. (39.307 SQ. MM PER METER). REFER TO ARCHITECTURAL PLANS FOR EXACT DIMENSIONS AND SPECIFICATIONS REGARDING TRENCH DRAIN GRATING. TRENCH SHALL HAVE 4" ROOF DRAINS PROVIDED BY PLUMBING CONTRACTOR IN THE LOWEST POINTS OF EACH TRENCH. ROOF DRAINS SHALL BE PROVIDED WITH CAST IRON DOME.	

ELECTRIC WATER HEATER SCHEDULE											
TYPE MARK	- MANUFACTURER -	- MODEL -	- DESCRIPTION -	- KW RATING -	- VOLTAGE -	- PHASE -	- AMPS -	- VOLUME -	- DIAMETER (IN) -	- HEIGHT (IN) -	- OPERATING WEIGHT (LBS) -
EW-1	A O SMITH	DRE-52-12	GOLD SERIES ASME COMMERCIAL ELECTRIC WATER HEATER, GLASS LINED TANK, 12.3 KW INPUT 63 GPH RECOVERY AT 80°F RISE, 208 VOLT ONE PHASE. 50 GALLON CAPACITY. 150 PSI WORKING PRESSURE. BRASS DRAIN VALVE. TEMPERATURE CONTROL ADJUSTABLE FROM 120 TO 181 DEGREES. FURNISH WITH T&P RELIEF VALVE, CASH ACME - VR-801 VACUUM RELIEF VALVE, B&G PF-1 ALL BRONZE CIRCULATING PUMP 120 VOLT WITH AQUASTAT IN HWR LINE. AMTROL ST-5 EXPANSION TANK (2.0 GALLON CAPACITY MIN.)	12.3	208	SINGLE	59	50	21.75	55.75	265

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SYSTEM UPGRADES AT  
CHARLIE CRAIG HATCHERY FOR  
ARKANSAS GAME & FISH  
977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719

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PLUMBING SCHEDULES

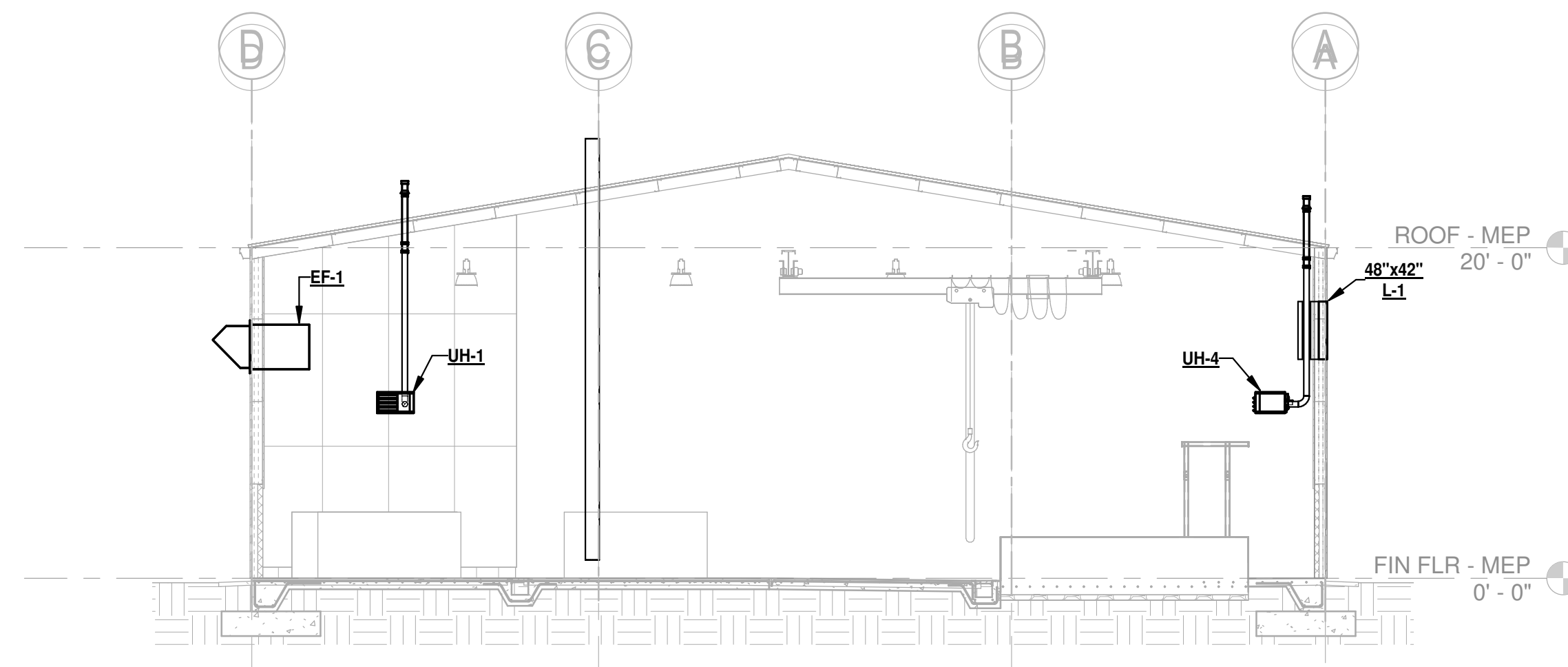


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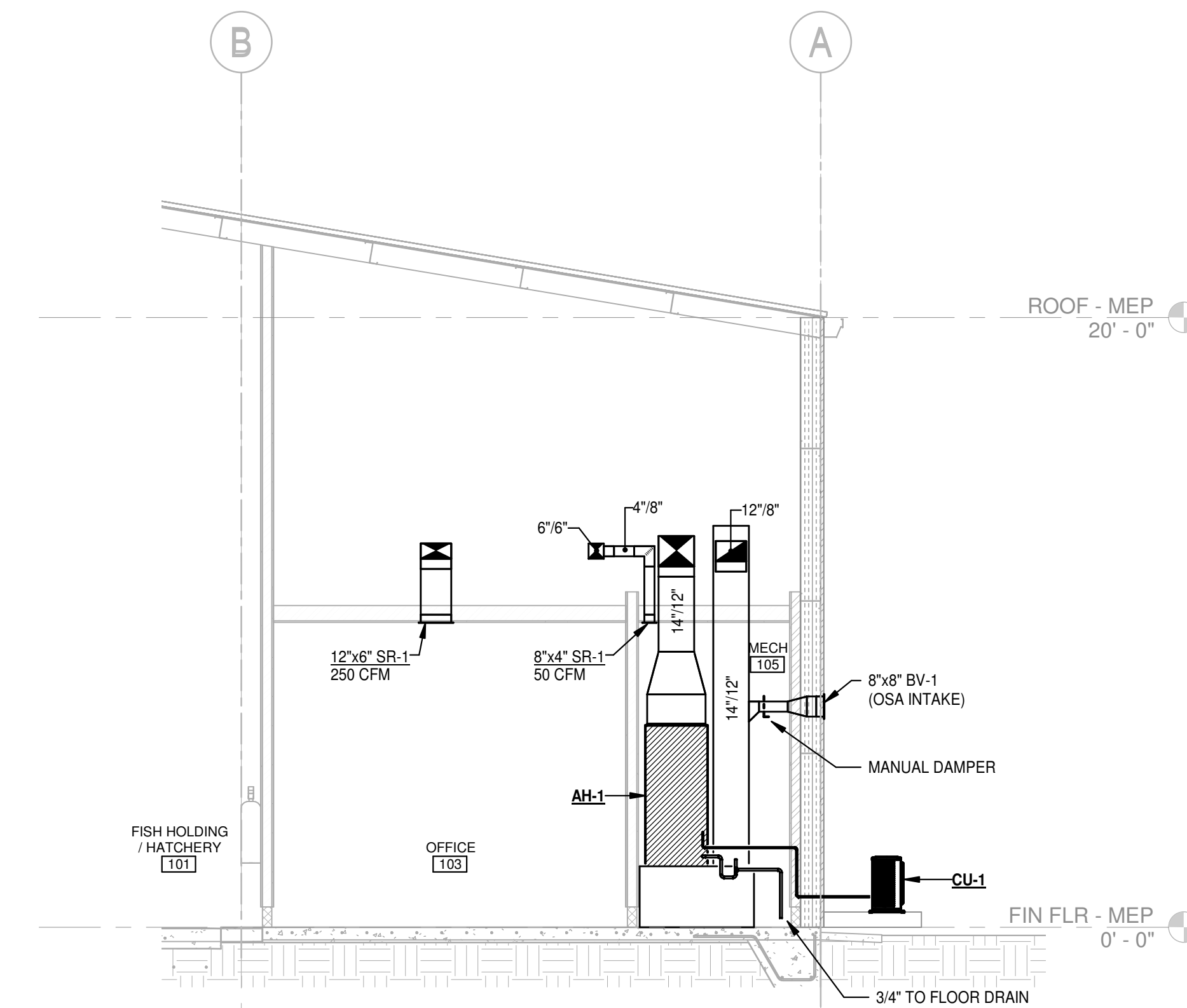
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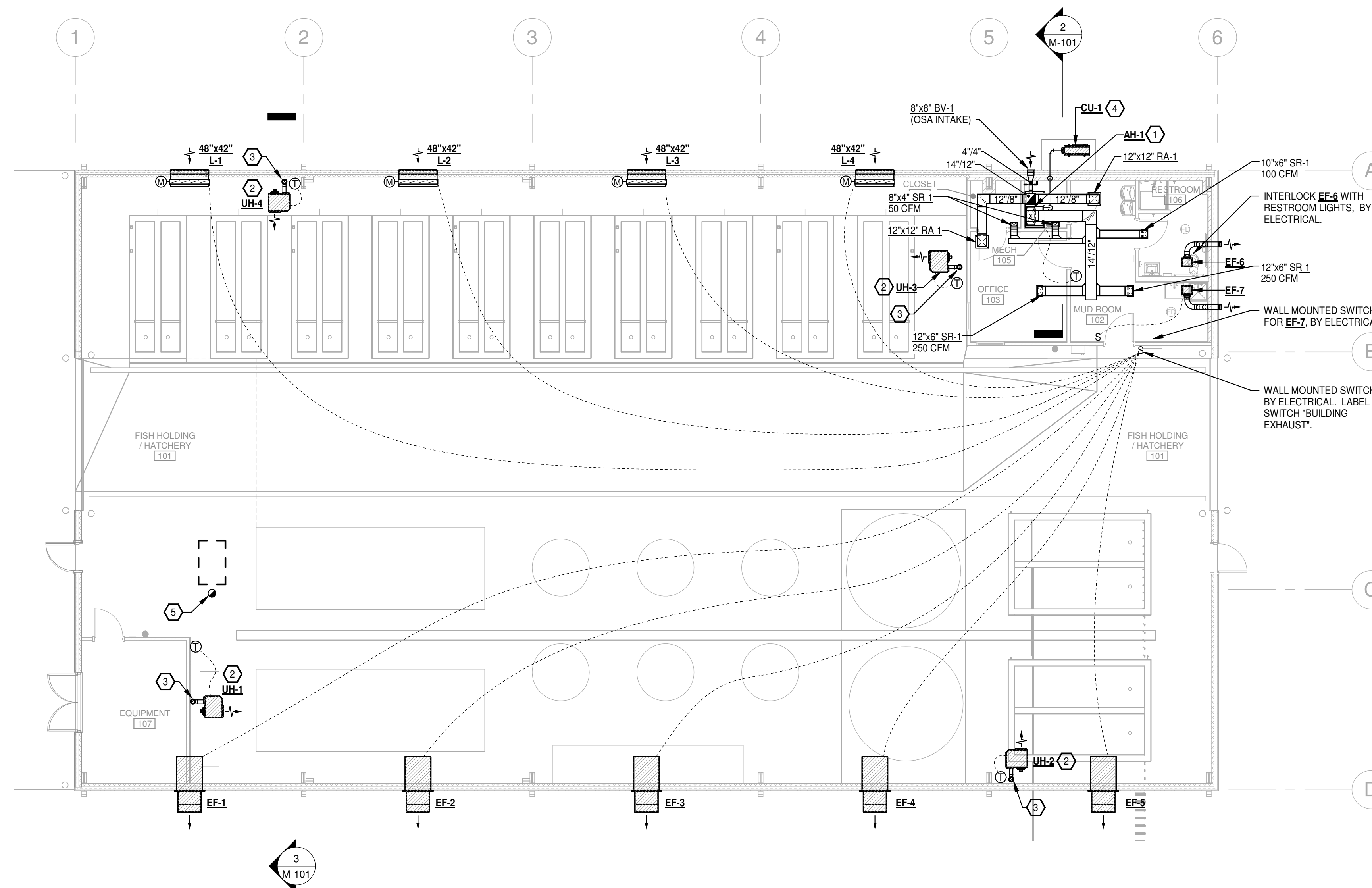
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**P-401**



**3 Section @ Fish Holding Area**  
SCALE: 1/8" = 1'-0"



**2 Section @ AH-1**  
SCALE: 1/4" = 1'-0"

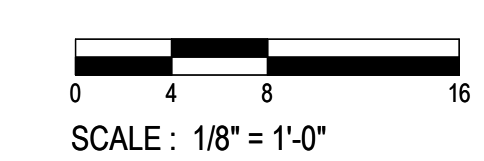
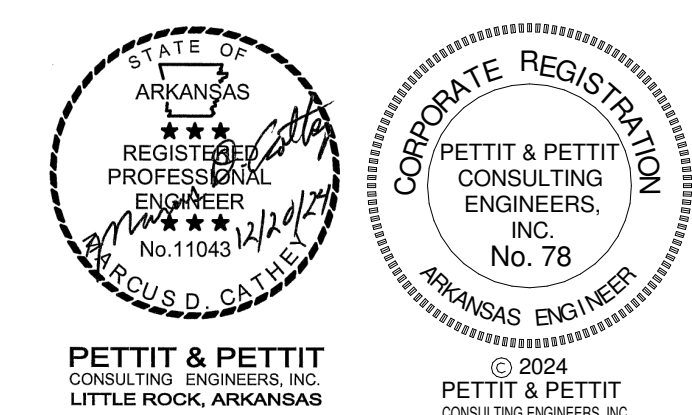


**1 FLOOR PLAN - HVAC**  
1/8" = 1'-0"

HVAC KEYED NOTES	
①	UNIT MOUNTED ON 24" HIGH PLENUM (SEE DETAIL).
②	UNIT HEATER BOTTOM 10'-0" A.F.F.. PROVIDE SUPPORTS / HANGERS AS REQUIRED.
③	4" FLUE THRU ROOF. COORDINATE WITH ROOFING CONTRACTOR.
④	CONDENSING UNIT ON CONCRETE PAD. COORDINATE WITH GENERAL CONTRACTOR FOR HEIGHT.
⑤	10" CPVC FLUE THRU ROOF. COORDINATE WITH ROOFING CONTRACTOR AND BOILER MANUFACTURER'S INSTRUCTIONS. BOILER IS PROVIDED BY OTHERS. SUPPORT FLUE PIPING FROM BUILDING STRUCTURE.

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**M-101**



MINI-SPLIT INDOOR HEAT PUMP UNIT SCHEDULE																						
DESIG.	MFR./MDL	TYPE	LOCATION	CFM (WET)	OSA	ESP	DIMENSIONS	WEIGHT	COOLING				HEATING				REFRIGERANT PIPE SIZE		ELECTRICAL DATA		REMARKS	
									CAPACITY	INDOOR	OUTDOOR	SEER	CAPACITY	INDOOR	OUTDOOR	HSPF	GAS	LIQUID	MCA	MOCP		VOLT/PHASE
AH-1	LG / LVN241HV4	VERTICAL HEAT PUMP AIR HANDLER	-	700 - HIGH 480 - LOW	70	.70" MAX.	-	117 LBS.	24.0 TMBH	80" d.b. 67" w.b.	95" d.b. 75" w.b.	16.45 SEER2	27.0 MBH	70" d.b. 60" w.b.	47" d.b. 43" w.b.	8.25 HSPF2	5/8"	3/8"	0.6	-	208v / 230v, 1Ø	PROVIDE FILTER RACK, CONDENSATE PUMP, WIRED T-STAT, PROVIDE CONDENSATE OVERFLOW SAFETY CUT-OFF SWITCH. UNIT POWERED FROM OUTDOOR UNIT.

MINI-SPLIT CONDENSING UNIT SCHEDULE																						
DESIG.	MFR./MDL	TYPE	SERVES	DIMENSIONS	WEIGHT	COOLING				HEATING			FAN DATA			COMPRESSOR DATA			ELECTRICAL DATA			REMARKS
						CAPACITY	INDOOR	OUTDOOR	CAPACITY	INDOOR	OUTDOOR	TYPE / QUANTITY	CFM	RLA	TYPE	RANGE	HEATER KW	MCA	MOCP	VOLT/PHASE		
CU-1	LG / LUJ240HHV	AIR COOLED	AH-1	-	133 LBS.	24.0 TMBH	80" d.b. 67" w.b.	95" d.b. 75" w.b.	27.0 MBH	70" d.b. 60" w.b.	47" d.b. 43" w.b.	--- / ---	2,048	---	INVERTER	-	-	-	22	30	208v / 230v, 1Ø	

DUCTWORK LEGEND	
	CEILING DIFFUSER
	RETURN AIR GRILLE (RA)
	EXHAUST REGISTER (ER)
	FLEXIBLE DUCT CONNECTOR
	TURNING VANES
	SPLITTER DAMPER (TEE)
	INTERNALLY INSULATED DUCT
	DUAL WALL DUCT
	EXTRACTOR
	MANUAL DAMPER
	FIRE DAMPER AND ACCESS DOOR (SMOKE DAMPER S.D. SIMILAR)
	TEMPERATURE SENSOR (WITH UNIT NUMBER)
	THERMOSTAT (WITH UNIT NUMBER)
	1 M-1 DETAIL
	2 M-2 SECTION

- ### GENERAL NOTES
1. DUE TO THE SMALL SCALE OF THIS DRAWING, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, AND ACCESSORIES WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING THE WORK AND SHALL COORDINATE AND ARRANGE HIS WORK ACCORDINGLY.
  2. ROUND BRANCH DUCT RUNOUTS SHALL BE SAME SIZE AS DIFFUSER THROAT UNLESS OTHERWISE NOTED.
  3. FLEXIBLE DUCT MAY BE USED FOR FINAL CONNECTIONS TO DIFFUSERS. A MAXIMUM LENGTH OF THREE FEET (3') SHALL BE USED. A HARD 90° ELBOW MUST BE USED WHERE DUCT TURNS DOWN ABOVE DIFFUSER. (SEE DETAIL THIS SHEET).
  4. ALL CEILING-MOUNTED SUPPLY DIFFUSERS SHALL HAVE FOUR-WAY (4-WAY) PATTERN UNLESS OTHERWISE INDICATED.
  5. WHERE MANUAL DAMPERS ARE INSTALLED IN EXTERNALLY INSULATED DUCTWORK, PROVIDE STAND-OFF BRACKET TO PREVENT COMPRESSION OF INSULATION BY DAMPER OPERATOR HANDLE.
  6. PROVIDE TURNING VANES IN ALL 90-DEGREE ELBOWS.
  7. PROVIDE SLEEVES THROUGH WALLS AND FLOORS. SEAL EXCESS OPENING WITH WATER-PROOF SEALANT. COORDINATE LOCATIONS AND SIZES OF SLEEVES WITH GENERAL CONTRACTOR. SLEEVES SHALL PROVIDE A MAXIMUM OF 1" CLEARANCE BETWEEN DUCT OR PIPE AND SLEEVE. SEAL PENETRATION IN FIRE/SMOKE RATED WALLS AND FLOOR WITH AN APPROVED FIRE/SMOKE BLOCK SEALANT.
  8. EXTERNALLY INSULATE SUPPLY, RETURN, EXHAUST, AND OUTSIDE AIR DUCTWORK UNLESS NOTED OTHERWISE.
  9. EXTERNALLY INSULATE LOW-VELOCITY ROUND RUNOUT DUCTWORK.
  10. INSULATE THE TOP OF ALL SUPPLY AIR DIFFUSERS WITH A MINIMUM OF 1/2" THICK FIBERGLASS DUCT WRAP.
  11. RUN COOLING COIL CONDENSATE DRAINS FULL SIZE TO NEAREST ROOF DRAIN.
  12. COORDINATE LOCATION OF DUCTS AND DIFFUSERS WITH STRUCTURAL FRAMING MEMBERS. OFFSET DUCTS AS REQUIRED TO CLEAR STRUCTURAL MEMBERS.
  13. COORDINATE LOCATIONS AND ELEVATION OF DUCT RUNS WITH PLUMBING, SPRINKLER, AND ELECTRICAL CONTRACTORS.
  14. COORDINATE MAKE-UP WATER AND GAS REQUIREMENTS WITH PLUMBING CONTRACTOR.
  15. PAINT DUCTWORK BLACK THAT MAY BE VISIBLE ABOVE PARTIAL CEILINGS. COORDINATE PAINTING OF DUCTWORK WITH ARCHITECT.
  16. COORDINATE CEILING DIFFUSER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS.

UNIT HEATER SCHEDULE													
DESIG.	MFR./MDL	SERVES	LOCAT	TYPE	CFM	FUEL	INPUT	OUTPUT	TEMP. RISE	MOTOR DATA			REMARKS
										HP	MCA	VOLT / PHASE	
UH-1 THRU UH-2	TRANE / GTNE 105	PREP AREA	-	LOW PROFILE TUBULAR PROPELLER	1,300	NATURAL GAS	105 MBH	86.1 MBH	60°	1/10	7.5	120/1Ø	PROVIDE SINGLE STAGE THERMOSTAT

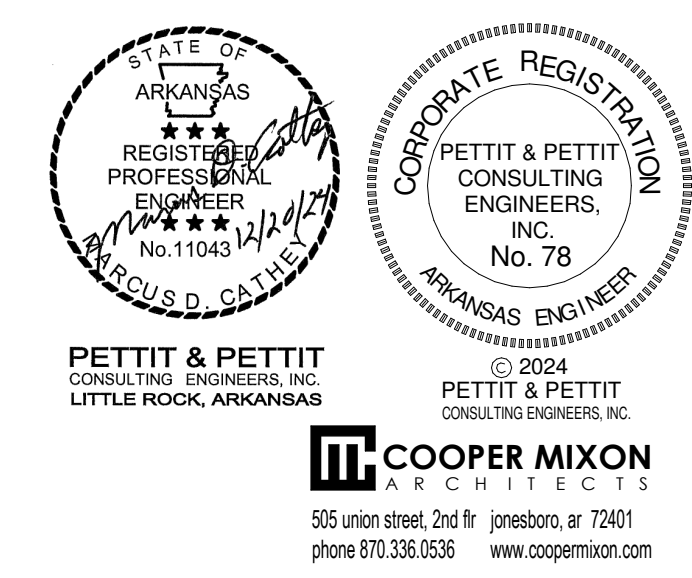
EXHAUST FAN SCHEDULE																
DESIG.	MFR./MDL	WEIGHT	LOCAT.	TYPE	FAN DATA					MOTOR DATA				REMARKS		
					CFM	S.P.	RPM	DRIVE	TYPE	DIA.	SONES	RPM	BHP		HP	VOLT/PH
EF-1 THRU EF-5	GREENHECK / SBE-3H24	81 LBS.	WALL	WALL MNTD.	3,600	.47"	1,131	STEEL PROPELLER BELT DRIVE	SIDEWALL	---	19.5	1,725	-	3/4	120 / 1Ø	PROVIDE WITH DAMPER, GRANTY OPERATED LOGSILL, WALL HOUSING, DISCHARGE HOOD.
EF-6 & EF-7	GREENHECK / SP-B110	29 LBS.	CEILING	CLG. MOUNTED	70	0.4"	733	DIRECT	---	---	1.1	---	---	100 W	120 / 1Ø	PROVIDE FAN SPEED CONTROL, FLUG DISCONNECT, WALL CAP, GRILLE, & ISOLATION KIT

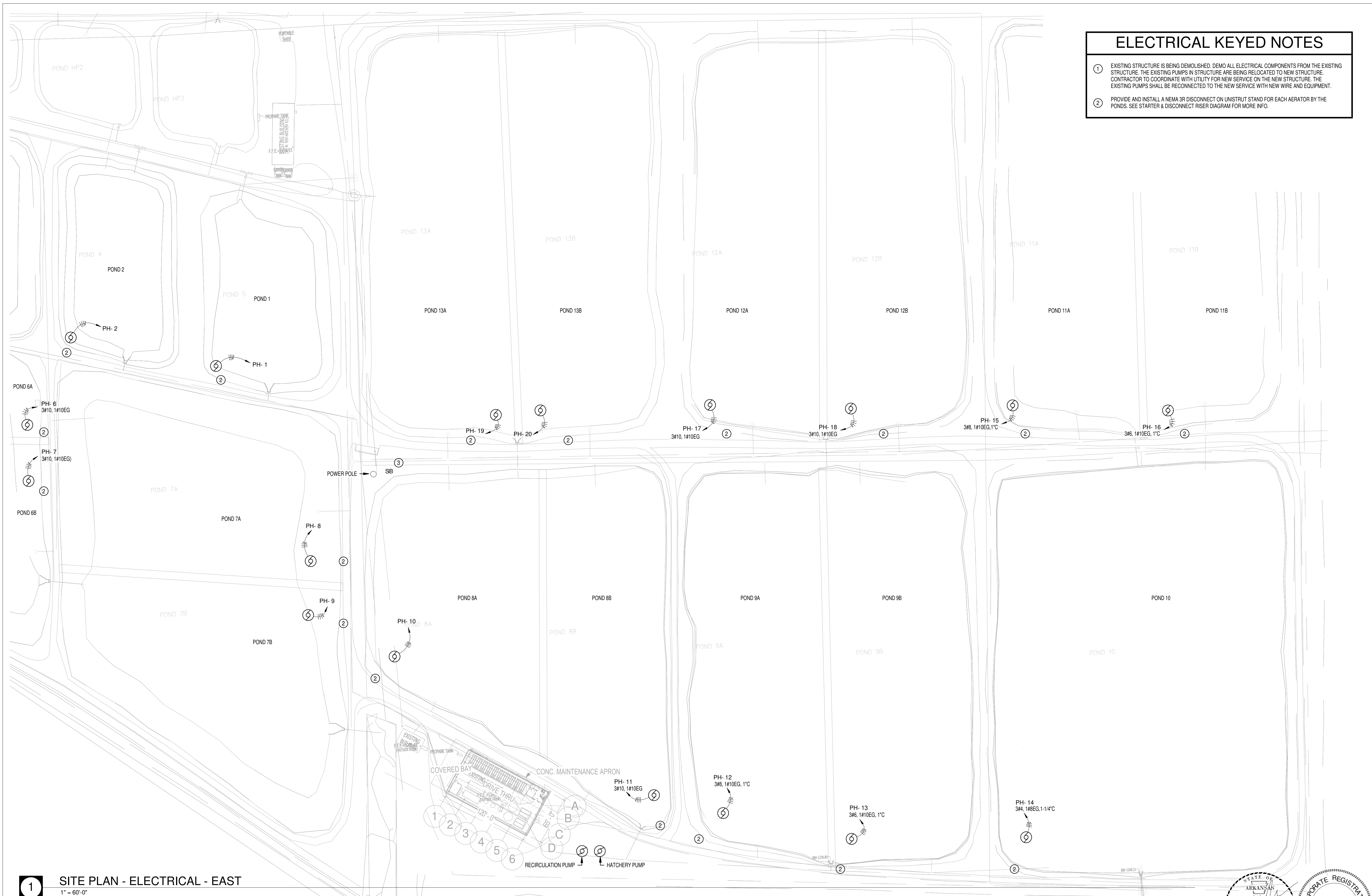
AIR DEVICE SCHEDULE							
DESIG.	MFR./MDL.	TYPE	FACE SIZE	FINISH	FREE AREA	ACCESS.	REMARKS
CD-1	TUTTLE & BAILEY / 1300	LOUVER FACE CEILING SUPPLY	AS NOTED	WHITE	---	VOLUME CONTROL	2"x2" GRILLE WITH ROUND NECK FIXED HORIZONTAL AIR DEFLECTION IN LAY-IN CEILING
RA-1	TUTTLE & BAILEY / PR	PERFORATED FACE CEILING RETURN	AS NOTED	WHITE	51%	---	
SR-1	TUTTLE & BAILEY / AS4	DOUBLE DEFLECTION SIDEWALL SUPPLY	AS NOTED	WHITE	---	ALUMINUM OPPOSED BLADE DAMPER	ALUMINUM CONSTRUCTION, 1-1/4" MARGIN, 3/4" SPACED HORIZ. AND VERT. BLADES.

LOUVER SCHEDULE										
DESIG.	MFR./MDL.	TYPE	SERVES	CFM	S.P.	SIZE	VELOCITY FPM	FINISH	VOLT	REMARKS
L-1 THRU L-4	GREENHECK / ESD-603	EXTRUDED ALUMINUM DRAINABLE BLADE	INTAKE	4,500	0.10"	48"W x 42"H	706	KYNAR	-	HEAVY GAUGE EXTRUDED 6063T5 ALUMINUM FRAME AND BLADES, 1" FLANGED FRAME, & BIRD SCREEN. PROVIDE WITH SLEEVE & MOTORIZED DAMPERS. SEE DETAIL.
L-5	GREENHECK / ESD-603	EXTRUDED ALUMINUM DRAINABLE BLADE	INTAKE	350	0.10"	18"W x 16"H	492	KYNAR	-	HEAVY GAUGE EXTRUDED 6063T5 ALUMINUM FRAME AND BLADES, 1" FLANGED FRAME, & BIRD SCREEN. PROVIDE WITH SLEEVE & MOTORIZED DAMPERS. SEE DETAIL.
BV-1	GREENHECK / BVF	EXTRUDED ALUMINUM BRICK VENT	MS-1 OSA INTAKE	30	0.10"	8"W x 8"H	300	KYNAR	-	HEAVY GAUGE EXTRUDED 6063T5 ALUMINUM FRAME AND BLADES, 1" FLANGED FRAME, ALUMINUM MESH INSECT SCREEN, 12" ALUMINUM DUCT EXTENSION.

Rev.	Date	Revision Description

Seal  
**CONSTRUCTION DOCUMENTS**  
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Issue Date: 12/20/2024  
Project No: ARKGAMEF.0003 WR  
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Checked By: MDC  
Sheet Title: SCHEDULES - HVAC





- ### ELECTRICAL KEYED NOTES
- ① EXISTING STRUCTURE IS BEING DEMOLISHED. DEMO ALL ELECTRICAL COMPONENTS FROM THE EXISTING STRUCTURE. THE EXISTING PUMPS IN STRUCTURE ARE BEING RELOCATED TO NEW STRUCTURE. CONTRACTOR TO COORDINATE WITH UTILITY FOR NEW SERVICE ON THE NEW STRUCTURE. THE EXISTING PUMPS SHALL BE RECONNECTED TO THE NEW SERVICE WITH NEW WIRE AND EQUIPMENT.
  - ② PROVIDE AND INSTALL A NEMA 3R DISCONNECT ON UNISTRUT STAND FOR EACH AERATOR BY THE PONDS. SEE STARTER & DISCONNECT RISER DIAGRAM FOR MORE INFO.

**1** SITE PLAN - ELECTRICAL - EAST  
1" = 60'-0"

Rev.	Date	Revision Description

Seal

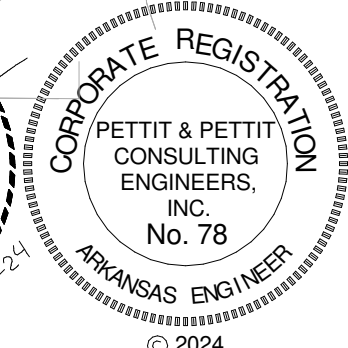
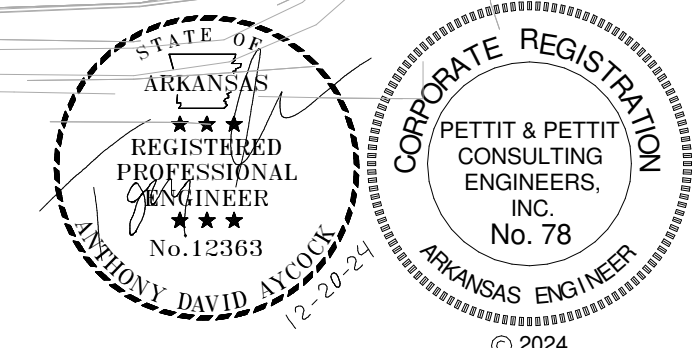
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EAST SITE PLAN - ELECTRICAL

Sheet Number:  
**E-000**



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- ### ELECTRICAL KEYED NOTES
- EXISTING STRUCTURE IS BEING DEMOLISHED. DEMO ALL ELECTRICAL COMPONENTS FROM THE EXISTING STRUCTURE. THE EXISTING PUMPS IN STRUCTURE ARE BEING RELOCATED TO NEW STRUCTURE. CONTRACTOR TO COORDINATE WITH UTILITY FOR NEW SERVICE ON THE NEW STRUCTURE. THE EXISTING PUMPS SHALL BE RECONNECTED TO THE NEW SERVICE WITH NEW WIRE AND EQUIPMENT.
  - PROVIDE AND INSTALL A NEMA 3R DISCONNECT ON UNISTRUT STAND FOR EACH AERATOR BY THE PONDS. SEE STARTER & DISCONNECT RISER DIAGRAM FOR MORE INFO.

**1** SITE PLAN - ELECTRICAL - WEST  
1" = 60'-0"

Rev.	Date	Revision Description

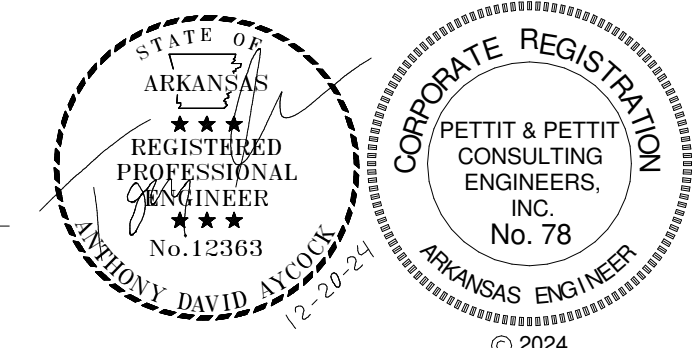
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**CONSTRUCTION DOCUMENTS**

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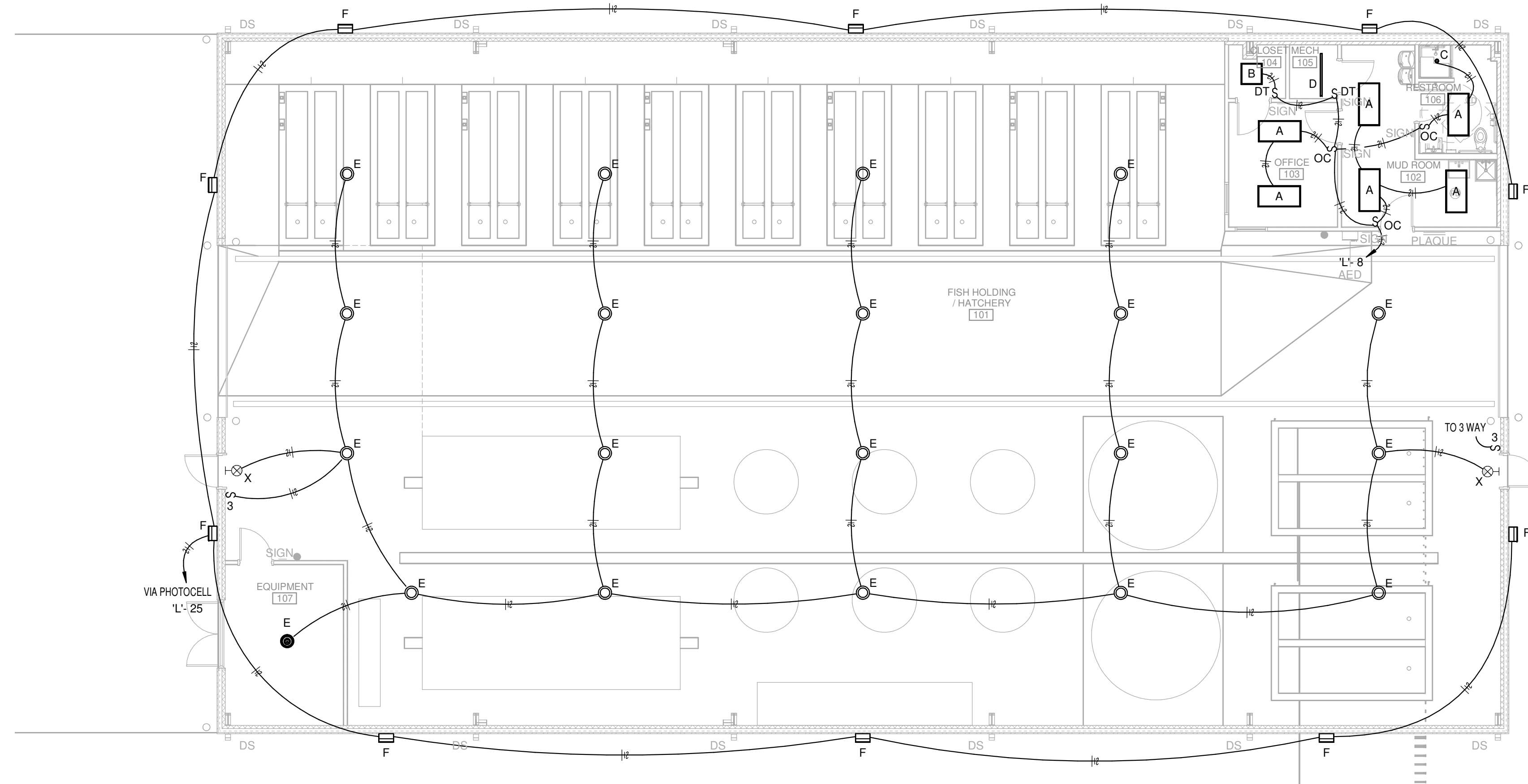
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Project No: ARKGAMEF.0003 WR  
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Sheet Title:  
WEST SITE PLAN - ELECTRICAL

Sheet Number:  
**E-001**

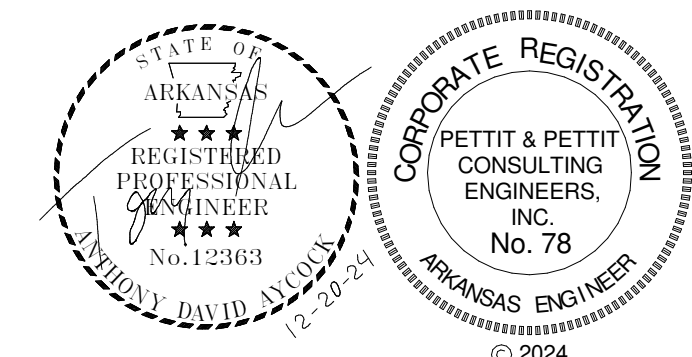
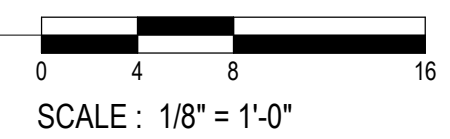


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LIGHT FIXTURE SCHEDULE				
TYPE MARK	MANUFACTURER	MODEL	ELECTRICAL DATA	DESCRIPTION
A	DAY-BRITE	2SBP3550L8CS-4-UNV-DIM	120 V/1-51 VA	2X4 LED FLAT PANEL
B	DAY-BRITE	2SBP3040L8CS-2-UNV-DIM	120 V/1-39 VA	2X2 LED FLAT PANEL
C	LIGHTOLIER	L6R204E1VB/L6R20935VB/L6RXX	120 V/1-0 VA	6" CAN DOWNLIGHT. COORDINATE FINISH WITH ARCHITECT.
D	DAY-BRITE	FSSEZ440L835-UNV-DIM	120 V/1-33 VA	4' STRIPLIGHT
E	DAY-BRITE	HCY-1421L-8CST-UN3-DIM	277 V/1-137 VA	LED HIGH BAY. COORDINATE FINISH AND MOUNTING WITH ARCHITECT.
F	STONCO	LPW32-70-NW-G3-4-XXX-UNV-FAWS-PCB-XX	120 V/1-90 VA	EXTERIOR WALL PACK WITH PHOTOCELL. COORDINATE FINISH AND MOUNTING WITH ARCHITECT.
X	EMERGL-LITE	ELXC-LPX	277 V/1-0 VA	COMBINATION EXIT LIGHT WITH LIGHT BAR



**1** FLOOR PLAN - LIGHTING  
1/8" = 1'-0"



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SYSTEM UPGRADES AT  
CHARLIE CRAIG HATCHERY FOR  
ARKANSAS GAME & FISH  
977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719

**FISHER ARNOLD**  
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**CONSTRUCTION DOCUMENTS**  
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FLOOR PLAN - LIGHTING  
Sheet Number:  
**E-101**



**SYSTEM UPGRADES AT CHARLIE CRAIG HATCHERY FOR ARKANSAS GAME & FISH**  
 977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719

Rev.	Date	Revision Description

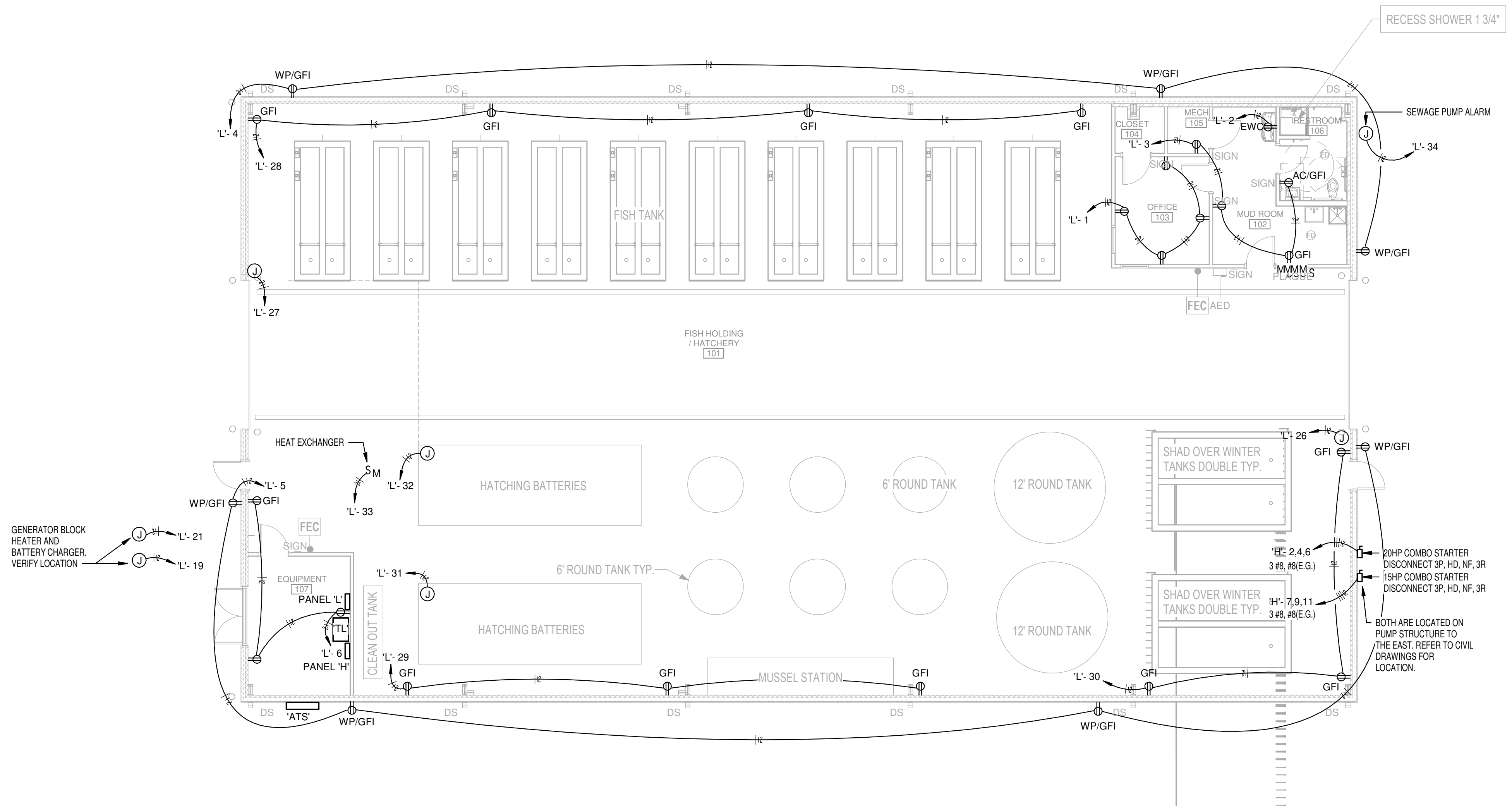
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**CONSTRUCTION DOCUMENTS**

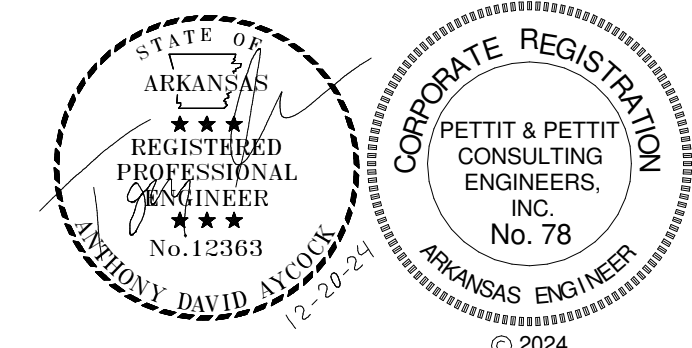
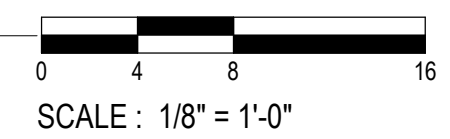
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 Sheet Title:  
**FLOOR PLAN - POWER**

Sheet Number:  
**E-102**

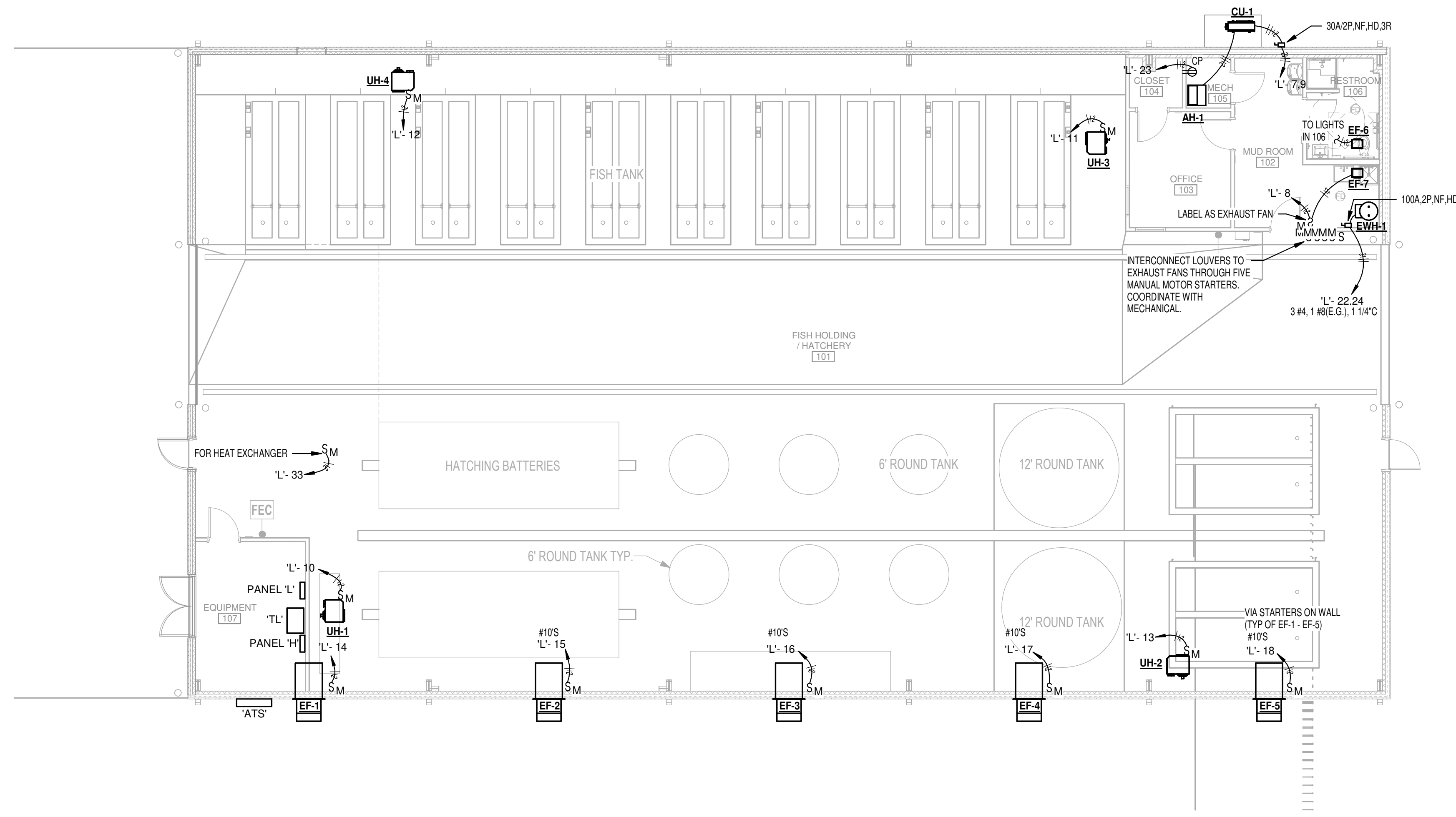


**1 FLOOR PLAN - POWER**  
 1/8" = 1'-0"



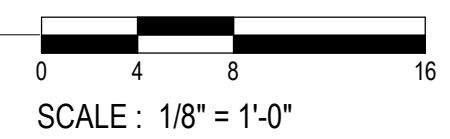
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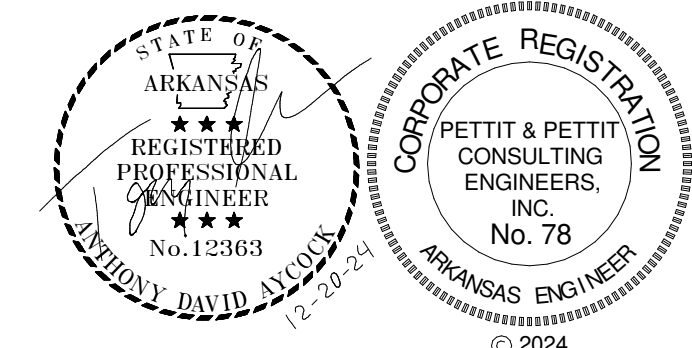


**1 FLOOR PLAN - SYSTEMS**

1/8" = 1'-0"



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



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**SYSTEM UPGRADES AT CHARLIE CRAIG HATCHERY FOR ARKANSAS GAME & FISH**

977 WEST FISH HATCHERY ROAD, CENTERTON, AR 72719

Rev.	Date	Revision Description

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**CONSTRUCTION DOCUMENTS**

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Issue Date: 12/20/2024  
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**FLOOR PLAN - SYSTEMS**

Sheet Number:  
**E-103**

Rev.	Date	Description

Seal

**CONSTRUCTION DOCUMENTS**

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 ELECTRICAL LEGENDS &  
 DETAILS

Sheet Number:  
**E-201**

**SYMBOL LEGEND**

	DUPLIX RECEPTACLE AT 18" A.F.F. GFI - GROUND FAULT CIRCUIT INTERRUPTER AC - MOUNTED ABOVE COUNTER BC - MOUNTED BELOW COUNTER WP - PROVIDED WITH WEATHERPROOF IN-USE TYPE COVER
	QUADRUPLEX RECEPTACLE
	SPECIAL PURPOSE RECEPTACLE NEMA CONFIGURATION SHOWN ON PLAN
	DATA OUTLET - NUMBER OF JACKS SHOWN ON PLAN
	JUNCTION BOX
	SINGLE POLE TOGGLE SWITCH AT 48" A.F.F. TYPICAL 3 - INDICATES 3-WAY TOGGLE M - MOTOR RATED TOGGLE OC - DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH BRANCH CIRCUIT HOMERUN HOT-NEUTRAL-GROUND PANEL AND CIRCUIT NUMBER INDICATED ON PLAN
	PANELBOARD
	DISCONNECT SWITCH
	DRY-TYPE TRANSFORMER
	MOTOR STARTER/DISCONNECT SWITCH/VFD

**GENERAL NOTES**

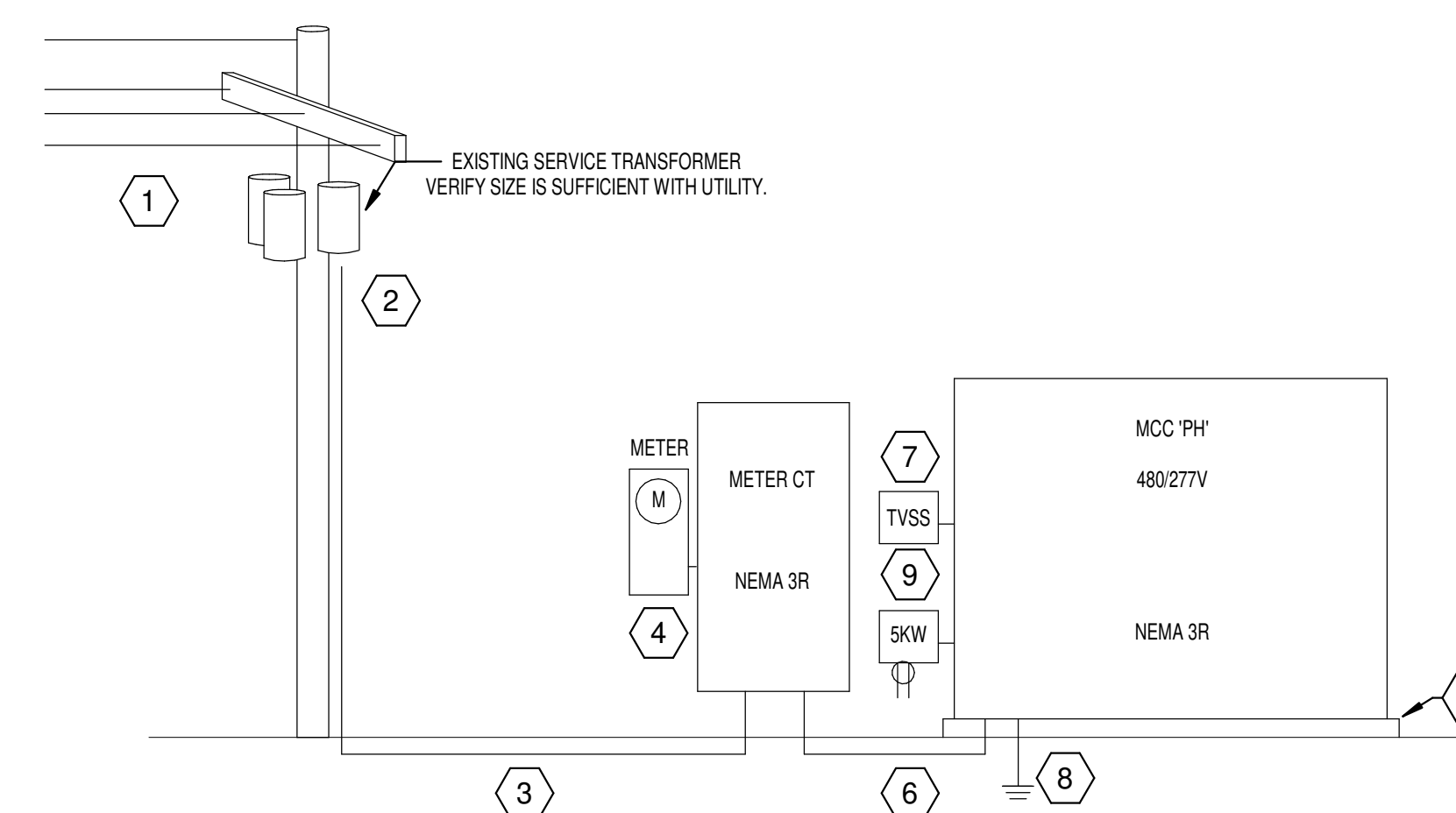
- ALL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE.
- CIRCUITS OF DIFFERENT PHASES MAY SHARE EQUIPMENT GROUND. EQUIPMENT GROUND CONDUCTOR SIZE SHALL NOT BE LESS THAN #12 AWG OR AS INDICATED ON THE DRAWINGS.
- ALL CONDUCTORS #10 AND SMALLER SHALL BE SOLID COPPER THW, THHN, THWN, AND ALL CONDUCTORS #8 AND LARGER SHALL BE STRANDED COPPER USING BOLTED LUGS AT TERMINALS.
- MINIMUM WIRE SIZE SHALL BE #12 AWG UNLESS OTHERWISE NOTED.
- PULL ALL THE CONDUCTORS THROUGH RACEWAY AT THE SAME TIME.
- MINIMUM CONDUIT SIZE SHALL BE 3/4" UNLESS OTHERWISE NOTED. SEE SPECS FOR CONDUIT REQUIREMENTS. ALL CONDUIT SHALL BE CONCEALED UNLESS OTHERWISE NOTED.
- 6'-0" MAXIMUM LENGTH ON FLEXIBLE CONDUIT.
- USE COMPRESSION FITTINGS ON CONDUIT. SET SCREW FITTINGS ARE NOT ALLOWED.
- PROVIDE PULL STRING AND PROTECTIVE BUSHINGS IN ALL SPARE CONDUITS.
- LABEL ALL CIRCUITS ON PANEL SCHEDULES.
- TURN ALL UNUSED CIRCUIT BREAKERS TO OFF POSITION.
- FIRE PROOF ALL PENETRATIONS MADE THROUGH FIRE RATED WALLS.
- ALL DEVICES SHALL BE RATED 20 AMP MINIMUM. VERIFY COLOR WITH ARCHITECT.
- CONNECT DEVICES BY WRAPPING WIRE AROUND SCREW TERMINAL IN A CLOCKWISE DIRECTION AND TIGHTEN SCREW. BACK-CONNECTED SPRING DEVICES ARE NOT ALLOWED.
- ALL BOXES SHALL BE INDEPENDANTLY SUPPORTED TO THE BUILDINGS STRUCTURE.
- CONTRACTOR SHALL REFER TO THE ARCHITECTURAL ELEVATIONS AND MILLWORK DETAILS FOR EXACT LOCATIONS OF ALL WIRING DEVICES AND LIGHT FIXTURES.
- CONTRACTOR SHALL REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL LAY-IN LIGHT FIXTURES.
- THE SPECIFICATIONS ARE AS BINDING ON THE CONTRACTOR AS THE DRAWINGS. THE CONTRACTOR SHALL READ THE SPECIFICATIONS AND SHALL INCLUDE ALL ITEMS REQUIRED BY THE SPECIFICATIONS BEFORE SUBMITTING A BID.
- ELECTRICAL CONTRACTOR SHALL CLOSELY COORDINATE WITH MECHANICAL AND PLUMBING CONTRACTORS FOR EXACT LOCATION OF HVAC AND PLUMBING EQUIPMENT.
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER SIZING OF ALL MOTOR OVERLOAD DEVICES (HEATERS) IN STARTERS BASED ON ACTUAL NAMEPLATE RATINGS ON THE MOTOR BEING INSTALLED.
- PROVIDE TAMPER RESISTANT DEVICES AS REQUIRED BY CODE.

<b>Switchboard:</b>		PH	VOLTAGE:	480/277 Wye	COPPER BUS RATING:	MAINS TYPE:	MCB
LOCATION:		PHASE:	3	GROUND BUS:	MCB RATING:	250 A	
MOUNTING:		WIRES:	4	MINIMUM A.I.C. RATING:	FED FROM:		
ENCLOSURE:	NEMA 3R	MFR. AND TYPE	EATON MCC	SUBFEED LUGS:	NEUTRAL RATING:	100.00%	
Circuit Number	Load Name	Circuit Breaker	A	B	C		
1	POND 1 AERATOR		3047 VA	3047 VA	3047 VA		
2	POND 2 AERATOR		1321 VA	1321 VA	1321 VA		
3	POND 3 AERATOR		1387 VA	1387 VA	1387 VA		
4	POND 4 AERATOR		1387 VA	1387 VA	1387 VA		
5	POND 5 AERATOR		1387 VA	1387 VA	1387 VA		
6	POND 6A AERATOR		2077 VA	2077 VA	2077 VA		
7	POND 6B AERATOR		2077 VA	2077 VA	2077 VA		
8	POND 7A AERATOR		3047 VA	3047 VA	3047 VA		
9	POND 7B AERATOR		3047 VA	3047 VA	3047 VA		
10	POND 8A AERATOR		2077 VA	2077 VA	2077 VA		
11	POND 8B AERATOR		2077 VA	2077 VA	2077 VA		
12	POND 9A AERATOR		3047 VA	3047 VA	3047 VA		
13	POND 9B AERATOR		3047 VA	3047 VA	3047 VA		
14	POND 10 AERATOR		1681 VA	1681 VA	1681 VA		
15	POND 11A AERATOR		3047 VA	3047 VA	3047 VA		
16	POND 11B AERATOR		3047 VA	3047 VA	3047 VA		
17	POND 12A AERATOR		3047 VA	3047 VA	3047 VA		
18	POND 12B AERATOR		3047 VA	3047 VA	3047 VA		
19	POND 13A AERATOR		3047 VA	3047 VA	3047 VA		
20	POND 13BAERATOR		3047 VA	3047 VA	3047 VA		
21	5KW TRANSFORMER	20/3	--				
22	SPD	60/3	--				
23							
24							
<b>Total Load:</b>			48982 VA	48982 VA	48982 VA		
<b>Total Amps:</b>			177 A	177 A	177 A		
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals			
Lighting	0 VA	0.00%	0 VA	<b>Total Connected Load:</b>	146947 VA		
Receptacles	0 VA	0.00%	0 VA	<b>Total Estimated Demand:</b>	149232 VA		
HVAC	0 VA	0.00%	0 VA	<b>Total Connect Current:</b>	177 A		
Other	0 VA	0.00%	0 VA	<b>Total Est. Demand Current:</b>	179 A		
Motor	146947 VA	101.55%	149232 VA				
Heating	0 VA	0.00%	0 VA				
Existing Load	0 VA	0.00%	0 VA				
<b>Notes:</b> SEE CHART FOR HORSEPOWER. ALL STARTERS SHALL HAVE HOA SWITCHES WITH PILOT LIGHTS AND 24V CONTROL COILS.							

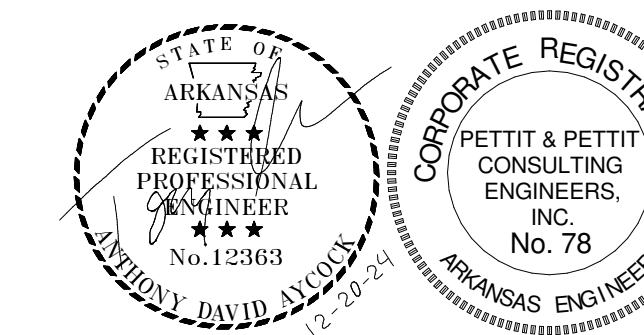
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STARTER	3 HP	3 HP	3 HP	3 HP	5 HP	5 HP	5 HP	5 HP	5 HP	5 HP	5 HP	5 HP	5 HP	10 HP	5 HP	5 HP	5 HP	5 HP	5 HP	5 HP	3 HP	3 HP	3 HP	3 HP	5 HP	5 HP	3 HP	3 HP
DISCONNECT	30A/3P	30A/3P	30A/3P	30A/3P	30A/3P	30A/3P	30A/3P	30A/3P	30A/3P	30A/3P	30A/3P	30A/3P	30A/3P	30A/3P	30A/3P	30A/3P	30A/3P	30A/3P	30A/3P	30A/3P	30A/3P	30A/3P	30A/3P	30A/3P	30A/3P	30A/3P	30A/3P	30A/3P

**POWER RISER KEYED NOTES:**

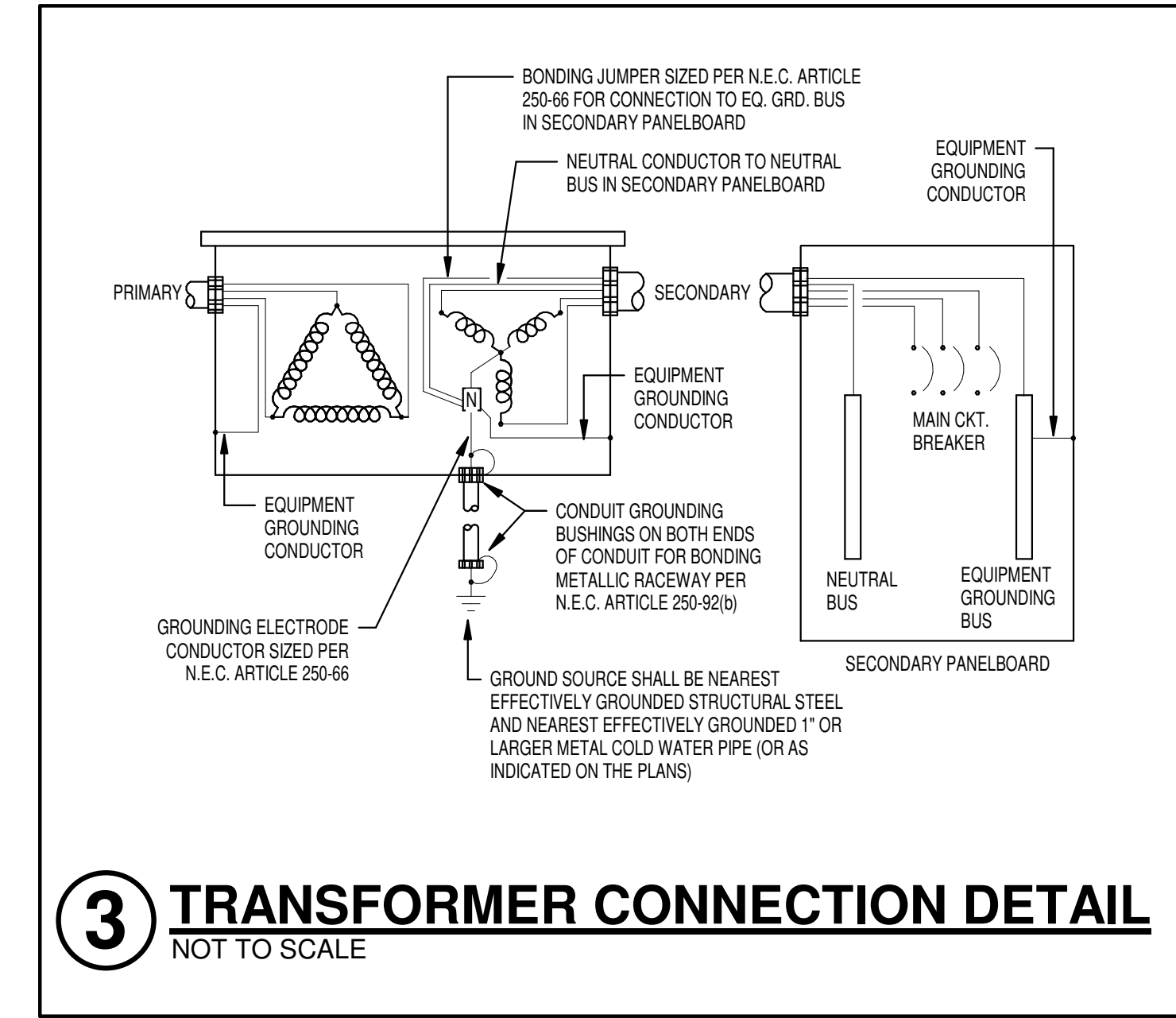
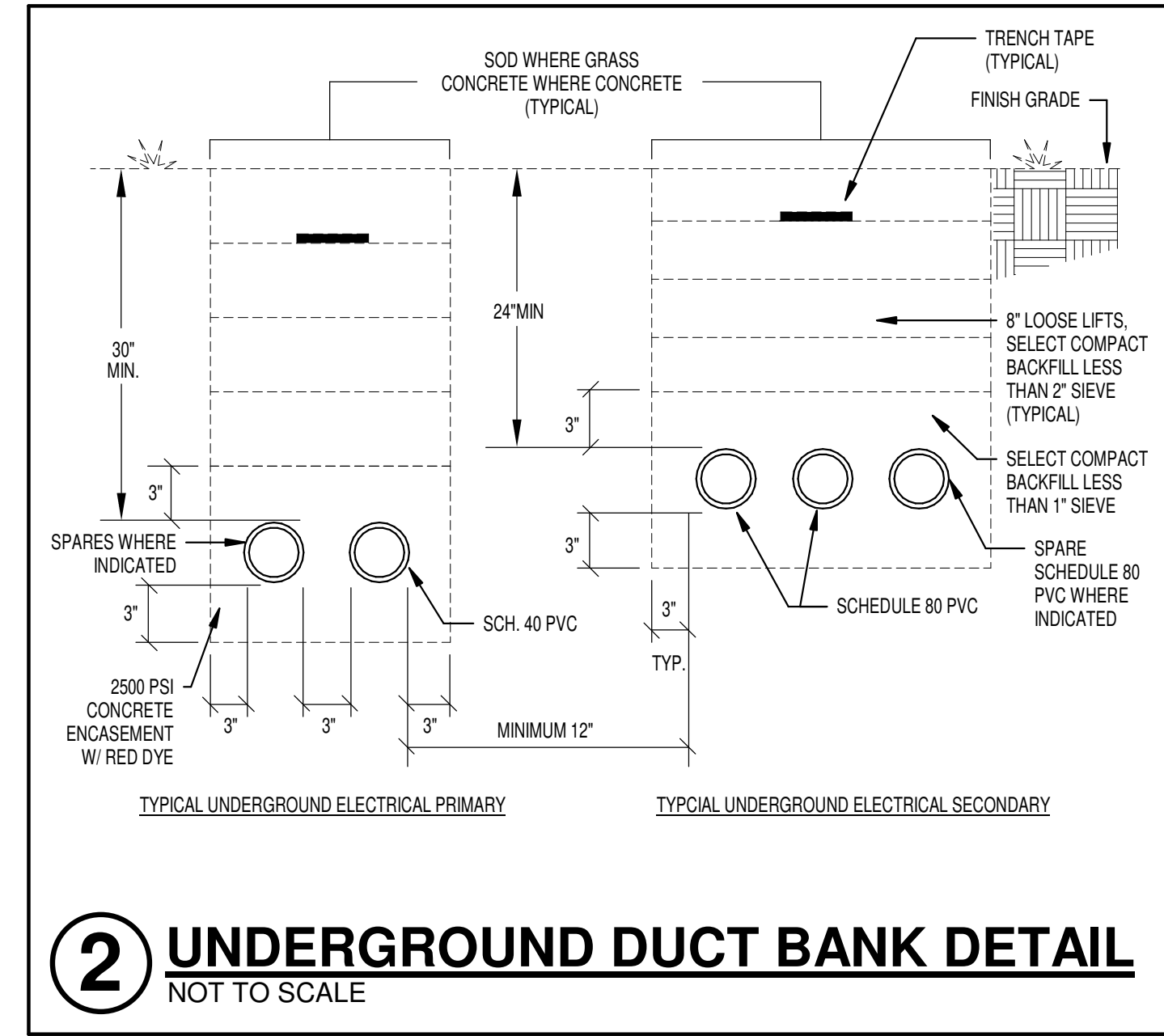
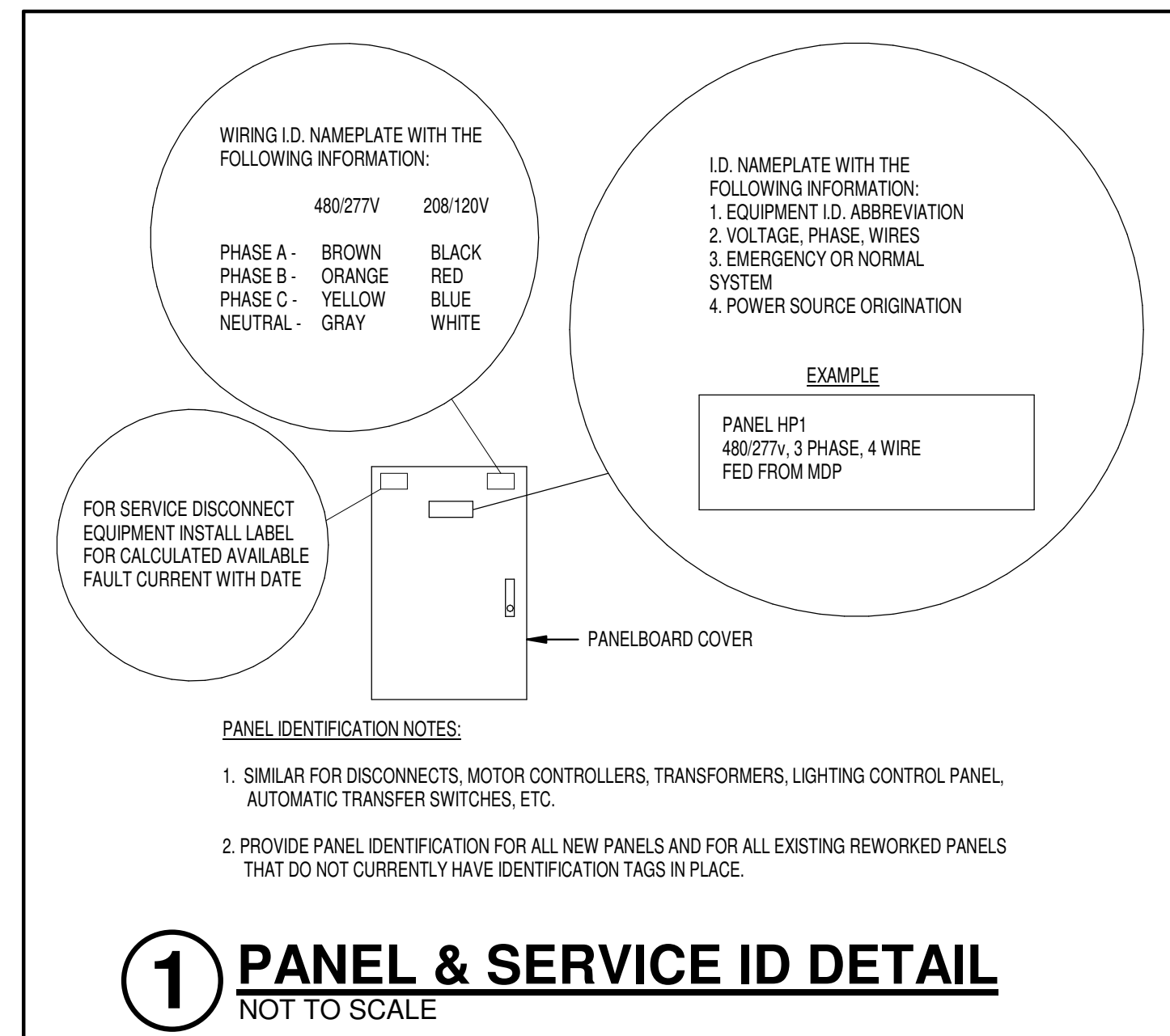
- UTILITY MAY HAVE TO UPGRADE EXISTING THREE PHASE SERVICE TO A NEW THREE PHASE SERVICE. COORDINATE WITH UTILITY PRIOR TO BID. REFER TO SITE ELECTRICAL PLANS.
- POLE AND POLE MOUNTED TRANSFORMERS SIZED AND PROVIDED BY UTILITY. SECONDARY CONDUIT AND WIRE PROVIDED BY CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION AND FEES ASSOCIATED WITH NEW SERVICE TRANSFORMER INSTALLATION. VERIFY PRIOR TO BID.
- 480/277V, 250A SERVICE, 3°C-4 250KCMIL
- C.T. CABINET AND METER BASE PROVIDED BY CONTRACTOR, PER UTILITY STANDARDS.
- PROVIDE STEEL REINFORCED 6" CONCRETE PAD WITH FOOTINGS FOR THE MCC.
- 3°C-4 250.1#4(G)
- CURRENTTECH CG80 SURGE PROTECTION DEVICE. WIRED PER MANUFACTURER.
- SEE GROUNDING DETAIL
- 5KW 3R TRANSFORMER 240V WITH WP/GFI RECEPTACLE WITH FUSING MOUNTED BELOW.



**2 POND POWER RISER DIAGRAM**  
 SCALE: N.T.S.

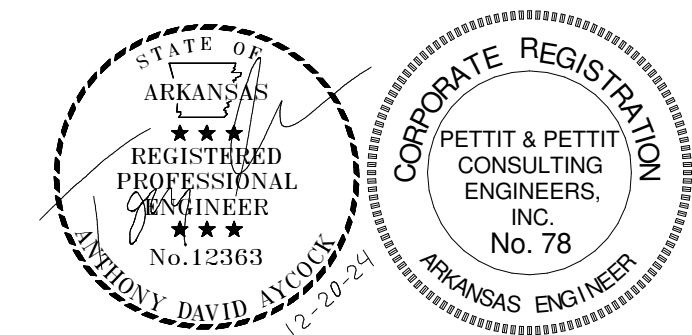
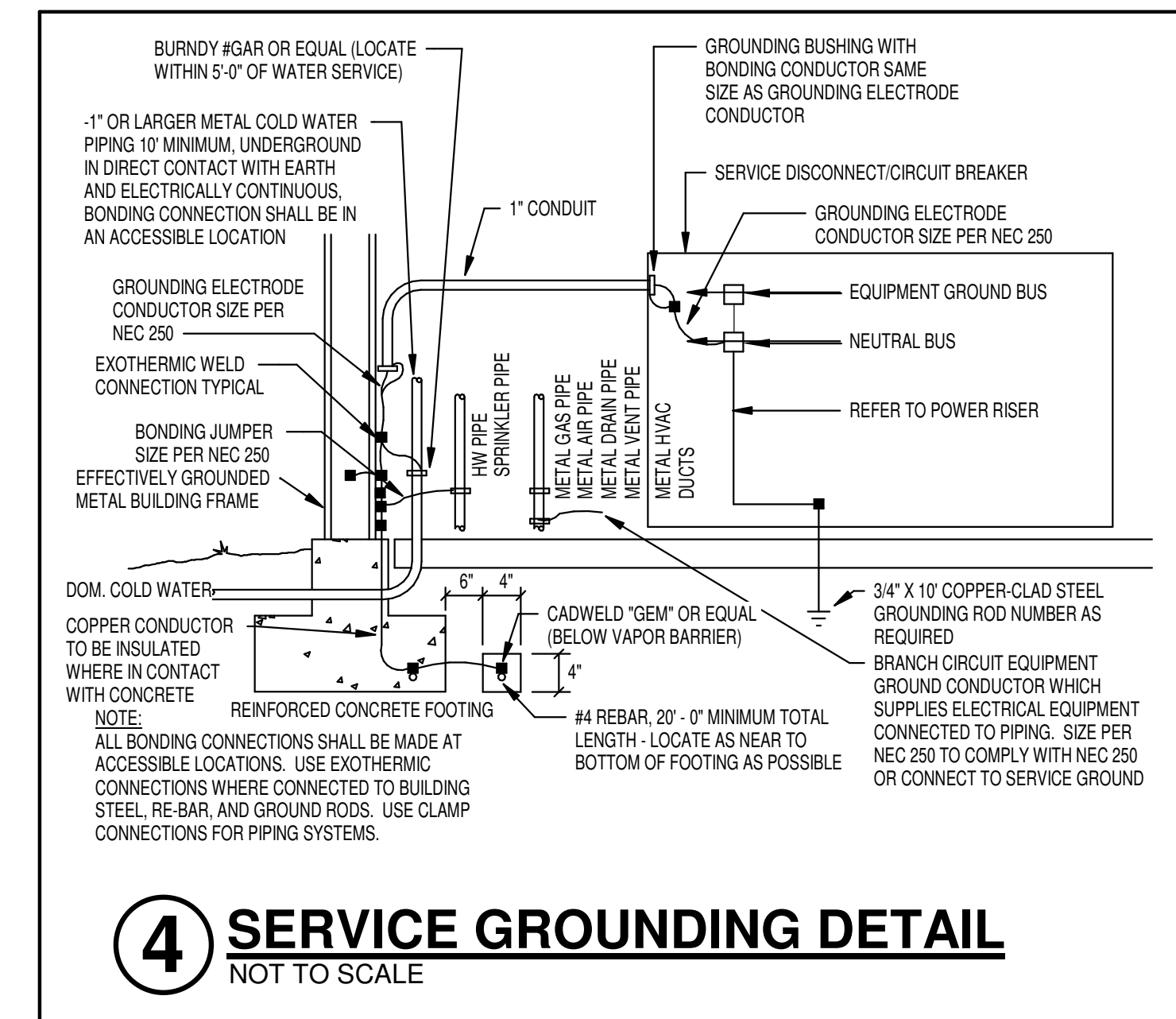
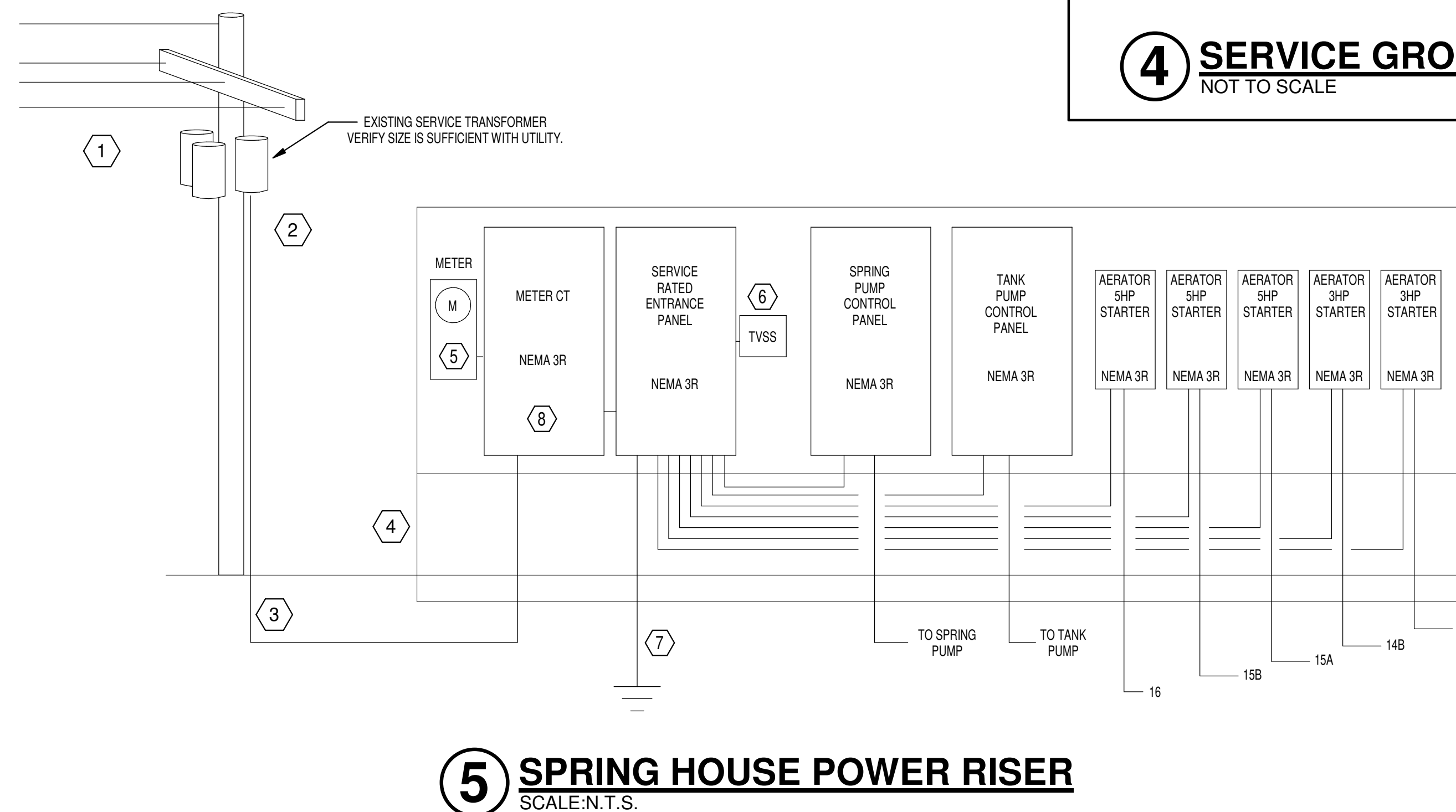


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Panelboard:		SH	VOLTAGE:	480/277 Wye	COPPER BUS RATING:	200 A	MAINS TYPE:	MCB
LOCATION:			PHASE:	3	GROUND BUS:		MCB RATING: 150	
MOUNTING:		SURFACE	WIRES:	4	MINIMUM A.I.C. RATING:		FED FROM:	
ENCLOSURE:	TYPE 3R	MFR. AND TYPE:	SQUARE D NF	SUBFEED LUGS:		NEUTRAL RATING:	100.00%	
Circuit Number	Load Name	BRKR	A	B	C	BRKR	Load Name	Circuit Number
1			5820	7482				2
3	PUMP	40/3		5820	7482	60/3	PUMP	4
5					5820	7482		6
7			1321	1321				8
9	POND 14A AERATOR	15/3		1321	1321	15/3	POND 14B AERATOR	10
11					1321	1321		12
13			1321	1321				14
15	POND 15A AERATOR	15/3		1321	1321	15/3	POND 15B AERATOR	16
17					1321	1321		18
19			3050	--		60/3	SPD	20
21	POND 16 AERATOR	15/3		3050				22
23					3050			24
25								26
27								28
29								30
31								32
33								34
<b>Total Load:</b>			21636 VA	21636 VA	21636 VA			
<b>Total Amps:</b>			78 A	78 A	78 A			
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals				
Lighting	0 VA	0.00%	0 VA	Total Connected Load:		64909 VA		
Receptacles	0 VA	0.00%	0 VA	Total Estimated Demand:		70520 VA		
HVAC	0 VA	0.00%	0 VA	Total Connected Current:		78 A		
Power	0 VA	0.00%	0 VA	Total Est. Demand Current:		85 A		
Other	0 VA	0.00%	0 VA					
Motor	64909 VA	108.65%	70520 VA					
Heating	0 VA	0.00%	0 VA					
Existing Load	0 VA	0.00%	0 VA					

- POWER RISER KEYED NOTES:**
- UTILITY MAY HAVE TO UPGRADE EXISTING SINGLE PHASE SERVICE TO A NEW THREE PHASE SERVICE. COORDINATE WITH UTILITY PRIOR TO BID. REFER TO SITE ELECTRICAL PLANS.
  - POLE AND POLE MOUNTED TRANSFORMERS SIZED AND PROVIDED BY UTILITY. SECONDARY CONDUIT AND WIRE PROVIDED BY CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION AND FEES ASSOCIATED WITH NEW SERVICE TRANSFORMER INSTALLATION. VERIFY PRIOR TO BID.
  - 480/277V, 150A SERVICE, 2°C-4#1/0
  - 4" RIGID VERTICAL PIPES AS NEEDED BURIED 3" IN CONCRETE BASE WITH GALVANIZED UNISTRUT HORIZONTAL MOUNTS.
  - METER PER UTILITY STANDARDS.
  - CURRENTTECH CG80 SURGE PROTECTION DEVICE, WIRED PER MANUFACTURER.
  - SEE GROUNDING DETAIL.
  - C.T. CABINET AND METER BASE PROVIDED BY CONTRACTOR, PER UTILITY STANDARDS.



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Rev.	Date	Revision Description

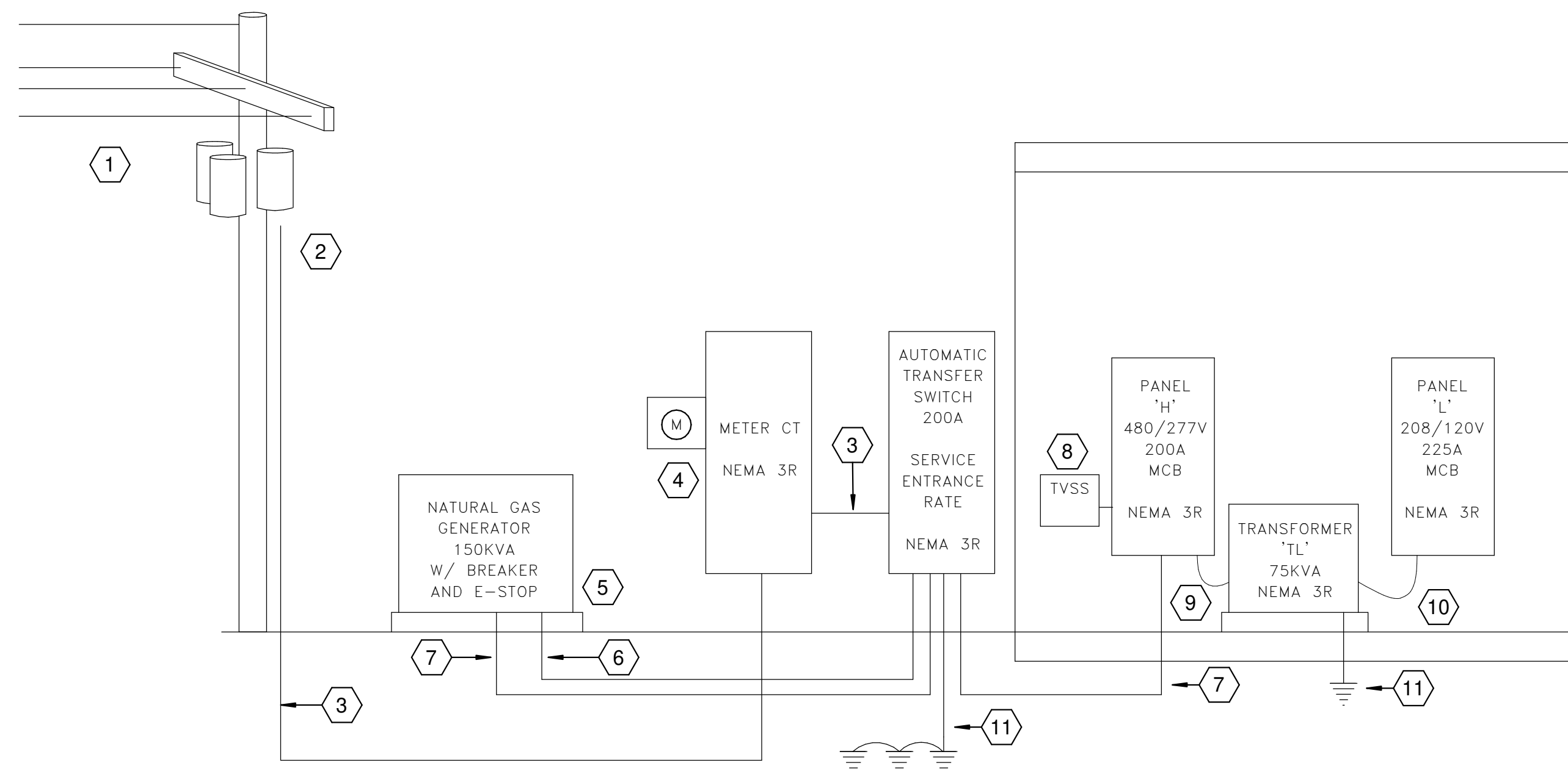
**CONSTRUCTION DOCUMENTS**

100% SET

Issue Date: 12/20/2024  
 Project No: ARKGAMEF.0003 WR  
 Drawn By: JDB  
 Checked By: MDC  
 Sheet Title: ELECTRICAL DETAILS & DIAGRAMS

<b>Panelboard:</b>		H'		VOLTAGE: 480/277 Wye		COPPER BUS RATING: 200 A		MAINS TYPE: MLO	
LOCATION: EQUIPMENT 107				PHASE: 3		GROUND BUS:		MCB RATING:	
MOUNTING: SURFACE		WIRES: 4		MINIMUM A.I.C. RATING: TBD		FED FROM:			
ENCLOSURE: TYPE 3R		MFR. AND TYPE: SQUARE D NF		SUBFEED LUGS:		NEUTRAL RATING:		100.00%	
Circuit Number	Load Name	BRKR	A	B	C	BRKR	Load Name	Circuit Number	
1	TL	125/3	9705	7500			PUMP	2	
3				16646	7500			4	
5						13890		7500	6
7	PUMP	40/3	5833	--			SPD	8	
9				5833				10	
11						5833			12
13									14
15							16		
17							18		
19							20		
21							22		
23							24		
<b>Total Load:</b>			23038 VA		29979 VA		27223 VA		
<b>Total Amps:</b>			83 A		111 A		101 A		
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals					
Lighting	900 VA	125.00%	1125 VA	Total Connected Load:		80241 VA			
Receptacles	5220 VA	100.00%	5220 VA	Total Estimated Demand:		80466 VA			
HVAC	13464 VA	100.00%	13464 VA	Total Connected Current:		97 A			
Power	60457 VA	100.00%	60457 VA	Total Est. Demand Current:					
Other	200 VA	100.00%	200 VA						
Motor	0 VA	0.00%	0 VA						
Heating	0 VA	0.00%	0 VA						
Existing Load	0 VA	0.00%	0 VA						
<b>Notes:</b>									

<b>Panelboard:</b>		L'		VOLTAGE: 120/208 Wye		COPPER BUS RATING: 225 A		MAINS TYPE: MCB	
LOCATION: EQUIPMENT 107				PHASE: 3		GROUND BUS: Yes		MCB RATING: 225	
MOUNTING: SURFACE		WIRES: 4		MINIMUM A.I.C. RATING: TBD		FED FROM: TL			
ENCLOSURE: TYPE 3R		MFR. AND TYPE: SQUARE D NQ		SUBFEED LUGS:		NEUTRAL RATING:		100.00%	
Circuit Number	Load Name	BRKR	A	B	C	BRKR	Load Name	Circuit Number	
1	RECEPT. - OFFICE 103	20A/1P	720	180			20A/1P	"EWC"	
3	RECEPT. - 104/105/102/106	20A/1P		720	540		20A/1P	RECEPT. - EXTERIOR	
5	RECEPT. - EXTERIOR	20A/1P				720	540	RECEPT. - EXTERIOR	
7	MSCU-1 & AH-1	30A/2P	1976	1409			20A/1P	EF-6 AND EF-7	
9					1976	864		15A/1P	UH-1
11	UH-3	15A/1P				864	864	15A/3P	
13	UH-2	15A/1P	864	1656				25A/1P	
15	EF-2	25A/1P		1656	1656			25A/1P	
17	EF-4	25A/1P				1656	1656	25A/1P	
19	GENERATOR BLOCK HEATER	20A/1P	500	0				20A/1P	
21	GENERATOR BATTERY CHARGER	20A/1P			500	6150			
23	RECEPT. - CIRCULATING PUMP	20A/1P				360	6150	80A/2P	
25	LIGHTING	20A/1P	900	500				20A/1P	
27	GARAGE DOOR	20A/1P			500	720		20A/1P	
29	RECEPT. - 101	20A/1P				540	540	20A/1P	
31	HATCHERY BATTERIES	20A/1P	500	500				20A/1P	
33	HEAT EXCHANGER	20A/1P		864	500			20A/1P	
35	Spare	20A/1P				0	0	20A/1P	
37	Spare	20A/1P	0	0				20A/1P	
39	Spare	20A/1P			0	0		20A/1P	
41	Spare	20A/1P				0	0	20A/1P	
<b>Total Load:</b>			9705 VA		16646 VA		13890 VA		
<b>Total Amps:</b>			81 A		144 A		121 A		
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals					
Lighting	900 VA	125.00%	1125 VA	Total Connected Load:		40241 VA			
Receptacles	5220 VA	100.00%	5220 VA	Total Estimated Demand:		40466 VA			
HVAC	13464 VA	100.00%	13464 VA	Total Connected Current:		112 A			
Power	20457 VA	100.00%	20457 VA	Total Est. Demand Current:		112 A			
Other	200 VA	100.00%	200 VA						
Motor	0 VA	0.00%	0 VA						
Heating	0 VA	0.00%	0 VA						
Existing Load	0 VA	0.00%	0 VA						
<b>Notes:</b> *DENOTES GFI BREAKER*									



**1 POWER RISER DIAGRAM - HATCHERY BUILDING**  
SCALE: N.T.S.

**POWER RISER KEYED NOTES:**

- 1 UTILITY MAY HAVE TO EXTEND THREE PHASE OVERHEAD PRIMARY TO THE SITE. COORDINATE WITH UTILITY PRIOR TO BID. REFER TO SITE ELECTRICAL PLANS.
- 2 POLE AND POLE MOUNTED TRANSFORMERS SIZED AND PROVIDED BY UTILITY. SECONDARY CONDUIT AND WIRE PROVIDED BY CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION AND FEES ASSOCIATED WITH NEW SERVICE TRANSFORMER INSTALLATION. VERIFY PRIOR TO BID.
- 3 480/277V, 200A SERVICE, 3" C-4#4/0
- 4 C.T. CABINET AND METER BASE PROVIDED BY CONTRACTOR, PER UTILITY STANDARDS.
- 5 PROVIDE STEEL REINFORCED 8" CONCRETE PAD WITH FOOTINGS FOR THE GENERATOR.
- 6 PROVIDE TWO 1" CONDUITS TO THE ATS. ONE SPARE AND THE OTHER FOR CONTROLS WIRING PER MANUFACTURER.
- 7 3" C-3#4/0, 1#4/0(N), 1#4(G)
- 8 CURRENTTECH CG80 SURGE PROTECTION DEVICE. WIRED PER MANUFACTURER.
- 9 2" C-3#1.1#1(N), 1#6(G)
- 10 3" C-3#4/0, 1#4/0(N), 1#4(G)
- 11 SEE GROUNDING DETAIL

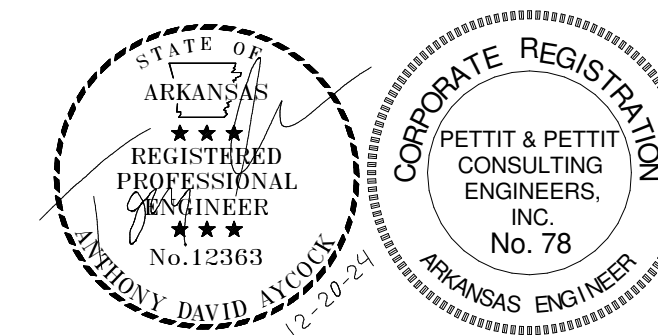
Rev.	Date	Revision Description

Seal

**CONSTRUCTION DOCUMENTS**

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Issue Date: 12/20/2024  
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Drawn By: JDB  
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