

IOWA DEPARTMENT OF NATURAL RESOURCES

CONSTRUCTION DOCUMENTS FOR LAKE AHQUABI STATE PARK BOAT STORAGE BUILDING WARREN COUNTY, IOWA



PROJECT #17-05-91-03
PLANS PREPARED BY
LAND AND WATERS BUREAU
CONSERVATION AND RECREATION DIVISION

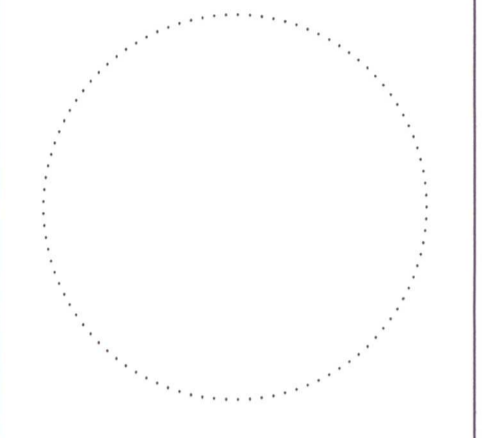
I hereby certify that this architectural document was prepared by me or under my direct personal supervision and that I am a duly Registered Professional Architect under the laws of the State of Iowa.

RYAN E. RICHEY DATE: 3/2/17

My license renewal date is June 30, 2017.
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CONSULTANT:



IOWA DEPARTMENT OF
NATURAL RESOURCES
ENGINEERING SERVICES - WALLACE BUILDING
502 E. 9TH ST., DES MOINES, IA 50319-0034
P: 515.725.8200
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DIRECTORY			
OWNER		DISTRICT INSPECTOR	
COMPANY	IOWA DEPARTMENT OF NATURAL RESOURCES	COMPANY	IOWA DEPARTMENT OF NATURAL RESOURCES
ADDRESS	502 E. 9TH ST.	ADDRESS	
CITY, STATE, ZIP	DES MOINES, IA 50319	CITY, STATE, ZIP	INDIANOLA, IA
CONTACT	N/A	CONTACT	JASON KRUSE
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ARCHITECT			
COMPANY	IOWA DEPARTMENT OF NATURAL RESOURCES		-
ADDRESS	502 E. 9TH ST.		-
CITY, STATE, ZIP	DES MOINES, IA 50319		-
CONTACT	RYAN RICHEY		-
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PROJECT DATA
<u>OCCUPANT LOAD:</u> GROUP S-1 - STORAGE / ACCESSORY STORAGE AREAS - 1,400 GROSS (IBC TABLE 1004.1.1) STORAGE 1,400 SF / 300 = 4.67 = 5 OCCUPANTS TOTAL OCCUPANT LOAD = 5 OCCUPANTS <u>REQUIRED FIXTURES:</u> 0 TOTAL WATER CLOSETS

BUILDING DATA
<u>MEANS OF EGRESS:</u> MIN. REQ-D # EXITS = 2 EXITS PER LEVEL (IBC TABLE 1021.1) MAX TRAVEL DISTANCE = 200' (IBC 1016.1) DEAD-END CORRIDOR = 20' MAX (IBC 1016.4) MIN. CORRIDOR WIDTH = 36" CLEAR MIN. CLEAR OPENINGS FOR EXIT DOORS = 32" (ACTUAL 34") <u>FIRE EXTINGUISHERS:</u> THE NUMBER AND LOCATIONS OF FIRE EXTINGUISHERS TO BE DETERMINED BY THE FIRE MARSHAL PRIOR TO CERTIFICATE OF OCCUPANCY. <u>BUILDING:</u> ADDRESS: LAKE AHQUABI STATE PARK 16510 118TH AVENUE INDIANOLA, IA 50125 WARREN COUNTY USE - STORAGE BUILDING CONSTRUCTION - TYPE V-b (W/O AUTOMATIC SPRINKLER SYSTEM) NUMBER OF STORIES - 1 STORY BUILDING HEIGHT - 18'-4" BUILDING AREA - 1,400 GSF BUILDING OCCUPANCY - GROUP S-1, STORAGE

BUILDING CODES
<u>BUILDING CODE</u> - 2015 INTERNATIONAL BUILDING CODE <u>STRUCTURAL CODE</u> - 2015 INTERNATIONAL BUILDING CODE <u>PLUMBING CODE</u> - 2012 UNIFORM PLUMBING CODE & IOWA ADMINISTRATIVE CODE 641-25 <u>MECHANICAL CODE</u> - 2012 INTERNATIONAL MECHANICAL CODE <u>ELECTRICAL CODE</u> - 2014 NATIONAL ELECTRIC CODE <u>ENERGY CODE</u> - 2012 INTERNATIONAL ENERGY CONSERVATION CODE <u>ACCESSIBILITY CODE</u> - 2010 ADA STANDARDS - US DEPARTMENT OF JUSTICE

PROJECT DESCRIPTION
CURRENTLY THERE IS NOT AN ADEQUATE STORAGE FACILITY AT LAKE AHQUABI FOR LAW ENFORCEMENT BOATS. THIS NEW STORAGE FACILITY WILL PROVIDE STORAGE FOR MULTIPLE BOATS AND ALLOW LAW ENFORCEMENT TO ACCESS LOCAL AREAS MORE EASILY. THE PROPOSED STORAGE BUILDING WILL HAVE 10'-0" OVERHEAD DOORS, LED LIGHTING AND ELECTRICAL POWER.

AUTHORIZATION TO BID
 ENGINEERING BUREAU CHIEF DATE: <u>3/2/17</u>
 AUTHORIZED - PARKS WILDLIFE FISHERIES LAW ENFORCEMENT DATE: <u>3-2-2017</u>

BID ITEMS		
ITEM NUMBER	ITEM DESCRIPTION	ESTIMATED QUANTITY
1	GRADING	LUMP SUM
2	SEEDING, FERTILIZING AND FINISHING	LUMP SUM
3	SITE ELECTRICAL (DISTRIBUTION PANEL, METERS & SERVICE LINES)	LUMP SUM
4	STORAGE BUILDING (ALL COMPONENTS)	1 EACH
5	MOBILIZATION	LUMP SUM
6	CONSTRUCTION STAKING	LUMP SUM

WARREN COUNTY, IOWA

COVER SHEET

BOAT STORAGE BUILDING FOR:
AHQUABI STATE PARK

16510 118TH AVE.

NO.	BY	DATE	REVISION

DRAWN BY: PROJECT NUMBER:
17-05-91-03

CHK'D BY: DATE:
03.01.2017

SHEET NO:

A-001

DIMENSION NOTES

- IN INTERIOR SPACES THE ACTUAL DIMENSIONS MAY BE LESS IMPORTANT THAN IF AT TWO ELEMENTS IN THE BUILDING WERE TO BE EQUAL. IN THESE CASES, THE WORD "EQUAL OR EQ" IS USED IN LIEU OF THE ACTUAL DIMENSIONS.
- WHEN A ROOM CENTERLINE IS INDICATED ONLY ONE SIDE OF THE ROOMS ELEMENTS MAY BE DIMENSIONED.
- COLUMN IDENTIFICATION: DETAILS WILL GOVERN ALL DIMENSIONS AND NO DIMENSIONS WILL BE SHOWN ON SMALL SCALE PLANS.
- PARTITION CENTERED ON COLUMN OR GRID LINES WILL NOT BE DIMENSIONED ON SMALL SCALE PLANS.
- PARTITION WITH A FINISHED FACE FLUSH WITH FINISH FACE OF COLUMN WILL NOT BE DIMENSIONED ON SMALL SCALE PLANS.
- PARTITION FINISH FACE ON COLUMN OR GRID LINE WILL NOT BE DIMENSIONED ON SMALL SCALE PLANS.
- WHEN ONE JAMB OCCURS AT A COLUMN OR GRID LINE NO DIMENSIONS WILL BE SHOWN ON THE SMALL SCALE PLANS. THE OPENING WIDTH WILL BE GOVERNED BY CRITERIA OR SCHEDULES.
- WHEN NEITHER JAMB OCCURS AT A COLUMN OR GRID LINE ONE JAMB WILL BE DIMENSIONED.
- DOOR LOCATIONS ARE TO BE LOCATED BY ONE OF FOLLOWING:
 - ONE JAMB FACE LOCATED BY A PARTITION AT RIGHT ANGLE. 4 TYPICAL UNLESS INDICATED ON PLAN.
 - OR AS DIMENSIONED ON PLAN.
- PARTITIONS ARE DIMENSIONED TO FACE OF CMU OR FACE OF STUD UNLESS OTHERWISE NOTED.
- DIMENSIONS ARE INDICATED IN THE DOCUMENTS. THE DRAWINGS SHALL NOT BE SCALED FOR DIMENSIONS.

MATERIAL LEGEND

	EARTH		CONCRETE MASONRY UNIT		GYPSUM / STUCCO		brick
	COMPACTED EARTH		metal stud		grout		CONCRETE
	GRASS		PARTICLE BOARD		sand		ASPHALT
	GRAVEL		PLYWOOD		foam INSULATION		cast stone
	clay		BATT INSULATION		RIGID INSULATION		stone
	fence		ACOUSTICAL CEILING TILE		ALUMINUM		glass
	turf block		plastic		STEEL		WOOD BLOCKING
	pavers		carpet		FINISHED WOOD		CONTINUOUS WOOD

SYMBOL LEGEND

	NORTH ARROW		ROOM /SPACE IDENTIFICATION
	DRAWING / DETAIL IDENTIFICATION		DOOR TAG
	SECTION REFERENCE		WINDOW TAG
	DETAIL REFERENCE		WALL TYPE REFERENCE
	EXTERIOR ELEVATION		KEYNOTE NUMBER -NEW C.S.I. DIVISION/KEY
	INTERIOR ELEVATION		KEYNOTE - DEMOLITION
	ELEVATION TARGET		KEYNOTE - NEW/RENOVATION
	COLUMN GRID		KEYNOTE - FINISH/ACCESSORY
	MATCH LINES		PROPERTY LINE REFERENCE
			CENTER LINE REFERENCE
			LEVEL CHANGE REFERENCE
			DETAIL CUT LINE
			REVISION NUMBER AND CLOUD

GENERAL NOTES

- THE FOLLOWING GENERAL NOTES SHALL PERTAIN TO THE ENTIRE SET OF CONTRACT DOCUMENTS
- A GENERAL CONTRACTOR SHALL NOTE THAT THE ARCHITECTURAL DRAWINGS ARE ESTABLISHING A MINIMUM MATERIAL OR CONSTRUCTION METHOD STANDARD. THE GENERAL CONTRACTOR SHALL PROVIDE A BID PRICE BASED ON THE SPECIFIC MATERIALS NOTED.
 - DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING WITH CONSTRUCTION.
 - GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL PERFORM THEIR WORK IN ACCORDANCE WITH ALL APPLICABLE CODES GOVERNING EACH TRADE.
 - THE CONTRACTOR SHALL MAINTAIN A CLEAN AND ORGANIZED JOB SITE, ACCEPTABLE TO THE OWNER.
 - THE CONTRACTOR SHALL COORDINATE THE SEQUENCE OF WORK WITH THE OWNER REPRESENTATIVE.
 - THERE SHALL BE NO DEVIATION BY THE GENERAL CONTRACTOR FROM THE CONSTRUCTION DOCUMENTS UNLESS APPROVED IN WRITING BY THE ARCHITECT.
 - EACH CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD PRIOR TO THE INITIATION OF WORK AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR CONDITIONS INTERFERING WITH THE ABILITY OF THE CONTRACTOR TO COMPLETE WORK AS OUTLINED ON THE CONSTRUCTION DRAWINGS.
 - ALL CONTRACTORS ARE REQUIRED TO COORDINATE THEIR WORK WITH OTHER TRADES. LACK OF THIS COORDINATION RESULTING IN ADDED COST TO THE CONTRACT WILL BE BORNE BY THE CONTRACTOR.
 - GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE EXISTING BUILDING WATER TIGHT DURING CONSTRUCTION.
 - THE CONTRACTOR WILL VERIFY THAT EXIT EGRESS IS MAINTAINED FOR ALL OCCUPIED AREAS OF THE BUILDING THROUGHOUT ALL PHASES OF CONSTRUCTION.
 - PLAN DIMENSIONS ARE GIVEN TO FACE OF STUD OR BLOCK WALL. "CLEAR" DIMENSIONS ARE GIVEN TO THE FACE THE OWNER WILL ASSUME ALL LIABILITY AND SHALL TAKE PERSONAL RESPONSIBILITY FOR ANY DECISIONS THAT THEY MAKE TO CHANGE OR ALTER THE CONSTRUCTION DOCUMENTS WITHOUT THE ARCHITECT'S WRITTEN APPROVAL.
 - PROTECT ALL EXISTING FINISHES AND MATERIALS TO REMAIN, IN ACCORDANCE WITH ACCEPTABLE TRADE PRACTICES, MANUFACTURER, RECOMMENDATIONS, OR AS DIRECTED BY THE ARCHITECT.
 - CUTTING OF EXISTING CONSTRUCTION FOR THE INSTALLATION OF ALL NEW WORK BY ALL TRADES, AND THE SUBSEQUENT PATCHING THEREOF, SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR, WHETHER THE WORK IS DONE BY HIS OWN FORCES OR NOT. GRINDING OF MATERIALS FOR REMOVAL SHALL NOT BE PERMITTED. CUTTING SHALL BE TO STRAIGHT LINE. UNWORKMAN-LIKE CUTTING, DAMAGE RESULTING THEREFROM AND UNACCEPTABLE PATCHING SHALL BE REPAIRED AND/OR REPLACED TO AN ACCEPTABLE CONDITION APPROVED BY THE ARCHITECT. A OWNER PROJECT REPRESENTATIVE SHALL BE NOTIFIED PRIOR TO CUTTING OF ANY STRUCTURAL ITEM (I.E. CONCRETE FLOOR MASONRY WALL, ETC.) WITHIN THE EXISTING BUILDING. METHOD OF CUTTING SHALL BE APPROVED BY THE OWNER PROJECT REPRESENTATIVE.
 - PATCHING MATERIAL SHALL MATCH EXISTING ADJACENT MATERIALS AS CLOSELY AS POSSIBLE IN COLOR, PATTERNS, AND/OR TEXTURES.
 - ALL SALVAGE MATERIALS REMOVED SHALL REMAIN THE PROPERTY OF THE OWNER. ALL NON-SALVAGE CONSTRUCTION MATERIALS AND DEBRIS FROM DEMOLITION WORK SHALL BE REMOVED FROM THE SITE AS WORK PROGRESSES, UNLESS OTHERWISE NOTED.
 - ISOLATE ALL DISSIMILAR METALS. O SHALL REQUEST APPROVAL BY THE ARCHITECT FOR MATERIALS USED FOR THIS PURPOSE, PRIOR TO INSTALLATION.
 - SEALANTS SHALL BE COMPATIBLE WITH ADJACENT SURFACE(S) THAT ARE IN CONTACT. REFER TO SPECIFICATIONS FOR APPROVED MANUFACTURERS AND PROCEDURES.
 - CAULK JOINTS OF DISSIMILAR EXPOSED TO VIEW MATERIALS AS REQUIRED BY THE ARCHITECT.
 - ALL DOOR HARDWARE TO BE FL. ADA COMPLIANT.
 - ALL EXTERIOR WALLS, DOORS AND WINDOWS ARE EXISTING U.N.O.
 - ALL FINISHES TO BE PER CLASS INDICATED ON A-004
 - NO CONSTRUCTION SHALL OCCUR WITHOUT SHOP DRAWING APPROVAL. SHOP DRAWINGS TO BE PROVIDED TO ARCHITECT FOR REVIEW UPON BEING REVIEWED AND SIGNED/DATED BY THE GENERAL CONTRACTOR AND SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING ITEMS:
 - CABINERY MILLWORK
 - RUNNING TRIM AND CASING PROFILES
 - PAINT/LAMINATE COLOR SAMPLES
 - ACOUSTICAL CEILING AND GRID
 - TOILET ACCESSORIES
 - KITCHEN EQUIPMENT
 - ROOF PENETRATIONS
 - HVAC EQUIPMENT
 - PLUMBING EQUIPMENT AND FIXTURES
 - ELECTRICAL EQUIPMENT AND FIXTURES
 - PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL SUBMIT (2) COPIES OF MATERIAL SAFETY DATA SHEETS (MSDS) FOR ALL PRODUCTS USED TO PERFORM THE WORK.

WALLTYPES

08 NOT USED

07 NOT USED

06 NOT USED

05 NOT USED

WALLTYPES

04 NOT USED

03 NOT USED

02 NOT USED

01 UNINSULATED EXT. POST-FRAME LOAD BEARING/NON-RATED

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WALL TYPES, NOTES & SYMBOLS

BOAT STORAGE BUILDING FOR:
AHQUABI STATE PARK
WARREN COUNTY, IOWA
14510 118TH AVE.

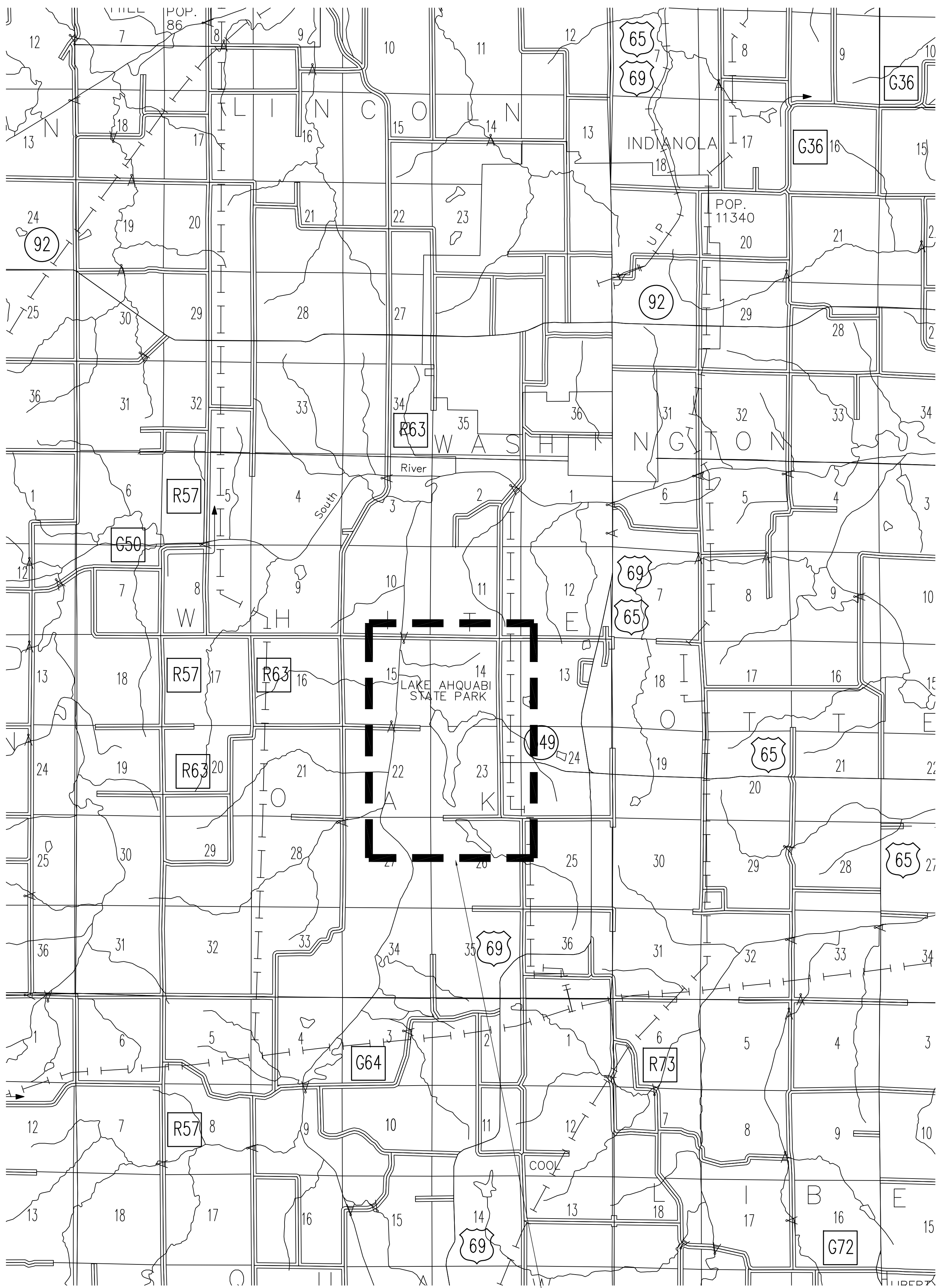
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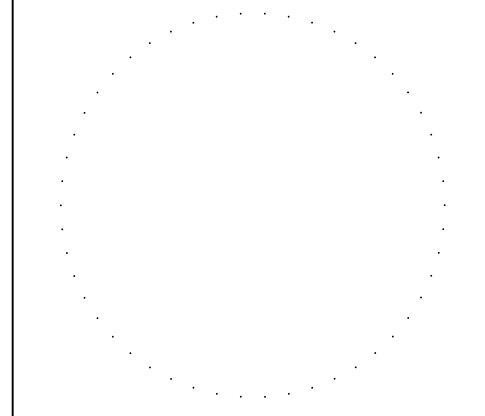
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A-002



CONSULANT:



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 ENGINEERING SERVICES - WALLACE BUILDING
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PROJECT LOCATION

BOAT STORAGE BUILDING FOR:
AHQUABI STATE PARK

WARREN COUNTY, IOWA
 16510 118TH AVE.

NO.	BY	REVISION

DRAWN BY: PROJECT NUMBER:
 17-05-91-03

CHKD BY: DATE:
 03.01.2017

SHEET No:

A-003



01 PROPOSED SITE PLAN
SCALE: 1/16" = 1'-0"

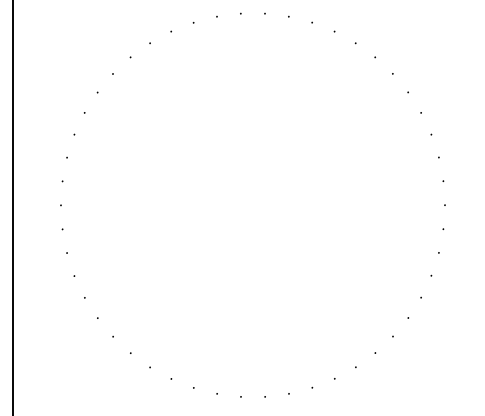
KEYNOTES

1. PROPOSED STORAGE BUILDING, ADD ±6" TO EXISTING GRADE FOR BUILDING SLAB ELEVATION. REAR OF BUILDING TO BE EVEN WITH REAR OF THE ADJACENT BUILDING.
2. EXISTING BUILDING TO REMAIN.
3. NEW ELECTRICAL SERVICE TO BUILDING, CONTRACTOR TO DETERMINE WHAT IS TO BE PROVIDED.
4. CLASS "A" ROAD STONE DRIVE, ENTIRE FRONT OF BUILDING, FROM THE EDGE OF BUILDING SLAB TO THE EXISTING ROCKED ROAD.
5. EXISTING ROCKED ROAD/YARD TO REMAIN.
6. EXISTING LIME KILN TO REMAIN.
7. EXISTING WEATHER STATION TO REMAIN.
8. EXISTING POWER POLE TO REMAIN, SERVICE POWER TO BE REWORKED. RUN DOWN POLE TO PAD MOUNTED TRANSFORMER. COORDINATE REQUIREMENTS FOR NEW TRANSFORMER AND ROUTING PRIMARY FEEDERS WITH UTILITY COMPANY.
9. 600 AMP SQUARE D DISTRIBUTION PANEL WITH NEMA 3R ENCLOSURE OR EQUAL. ONE METER FOR HOUSE AND ONE METER FOR THE REST OF THE SITE. FIELD VERIFY AMPERAGE AND DISTRIBUTION PANEL SIZING. ALL EQUIPMENT MOUNTED ON UNISTRUT H-FRAMEWORK. EMBED UNISTRUT IN CONCRETE FOUNDATION AT EACH VERTICAL SUPPORT.
10. EXISTING UNDERGROUND FEEDERS TO EXISTING BUILDING. COORDINATE ROUTING AND INSTALL.
11. NEW ELECTRICAL LINES IN CONDUIT TO HANDHOLE. CONTRACTOR TO DETERMINE WHAT IS TO BE PROVIDED.
12. NEW PAD MOUNTED TRANSFORMER. COORDINATE WITH UTILITY COMPANY.
13. EXISTING POWER POLE TO BE REMOVED.
14. QUARTZITE HANDHOLE WITH COVER, COORDINATE LOCATION. SPLICE AND CONNECT EXISTING FEEDERS AND GROUND WIRE, EXTEND IF NECESSARY.

GENERAL NOTES

- A. REFER TO FINISH & DOOR SCHEDULE, SHEET A-600.
- B. ALL ELECTRICAL SHALL BE NEC COMPLIANT AND UP TO ALL CODES AND ORDINANCES REQUIRED BY LAW. ALL OUTLETS TO BE MOUNTED AT 42" A.F.F.
- C. REFER TO INDEX SHEET FOR WALL TYPES, SHEET A-002.
- D. FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. A-100.
- E. FIELD VERIFY EQUIPMENT LOCATIONS FOR ELECTRICAL OUTLET LOCATIONS. REFER TO ELECTRICAL PLANS.
- F. REFER TO FINISH SCHEDULE SHEET FOR COLOR AND MATERIAL SECTIONS, SHEET A-600.
- G. CONTRACTOR TO HAVE THIS BUILDING, PRIOR TO CONSTRUCTION, PRE-ENGINEERED BY BUILDING SUPPLIER.

CONSULTANT:



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ARCHITECTURAL SITE PLAN

**BOAT STORAGE BUILDING FOR:
AHQUABI STATE PARK**

WARREN COUNTY, IOWA
16510 118TH AVE.

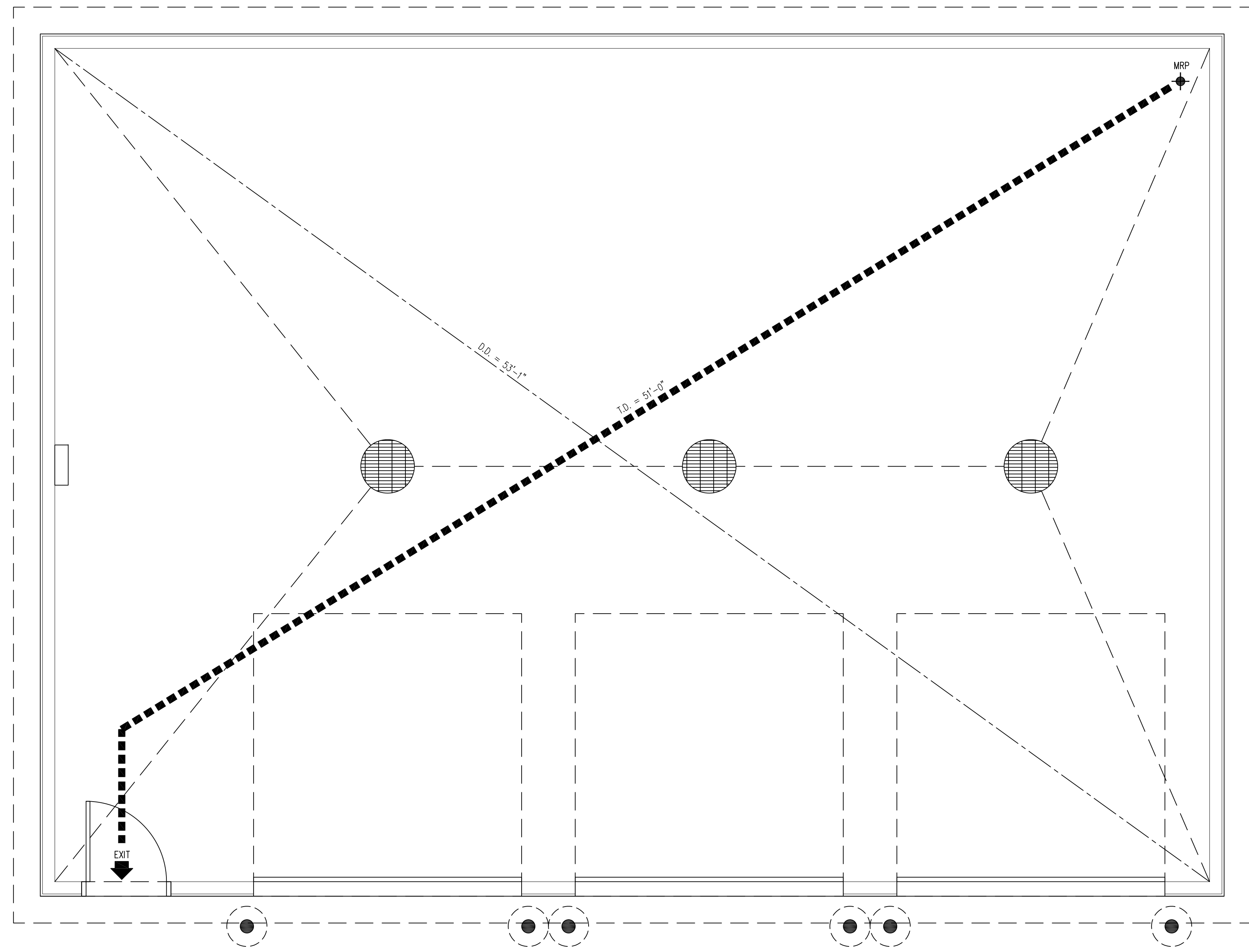
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DRAWN BY: PROJECT NUMBER:
17-05-91-03

CHK'D BY: DATE:
03.01.2017

SHEET No:

A-010



01 LIFE SAFETY PLAN
SCALE: 3/8" = 1'-0"

CODE SUMMARY

	BUILDING AREA	1,400 GSF	ALLOWABLE BLDG AREA (IBC TBL 503)	17,500 SF	REQUIRED	1,400 SF	PROVIDED	17,500 SF
CONSTRUCTION TYPE	V-B WITHOUT SPRINKLER SYSTEM		HEIGHT LIMITATION (IBC TBL 503)	2 STORIES (40')	NO	NO	1 STORIES (18')	NO
OCCUPANCY	GROUP S-1 - STORAGE		AUTOMATIC SPRINKLER SYSTEM (NFPA 13)	200'-0"	NO	NO	51'-0"	NO
			EXIT ACCESS TRAVEL DISTANCE (IBC 1016.1)	2	2	1		2
			EXIT ACCESS DOORWAYS (IBC TBL 1019.1)					1
			EGRESS WIDTH PER OCCUPANT (IBC TBL 1005.1) LEVEL [.2]	(2') X 5 = 1.0"				1 DOORS @ 36" = 36"

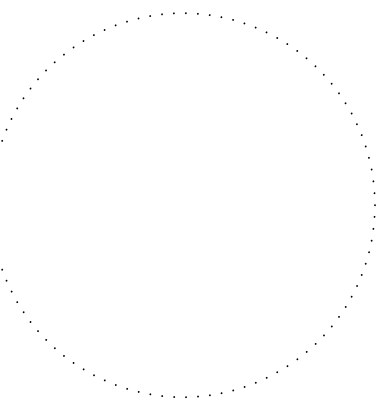
LIFE SAFETY LEGEND

SYMBOL	DESCRIPTION	LINE TYPE
D.E.	EXIT TO EXIT IN LINEAR FEET	---
T.D.	TRAVEL DISTANCE FROM M.R.P.	■■■■■■■■■■
D.D.	DIAGONAL DISTANCE	----
⊗	EXIT LIGHT	
M.R.P.	MOST REMOTE POINT	◆
⬆	EXIT / ENTRY	
[-FEC-]	FIRE EXTINGUISHER	

GENERAL NOTES

- a. INFORMATION PROVIDED ON THE LIFE SAFETY PLAN INDICATES EGRESS REQUIREMENTS.
- b. ALL CODE REFERENCES ARE FROM INTERNATIONAL BUILDING CODE, W/ AMENDMENTS UNLESS OTHERWISE NOTED

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LIFE SAFETY PLAN

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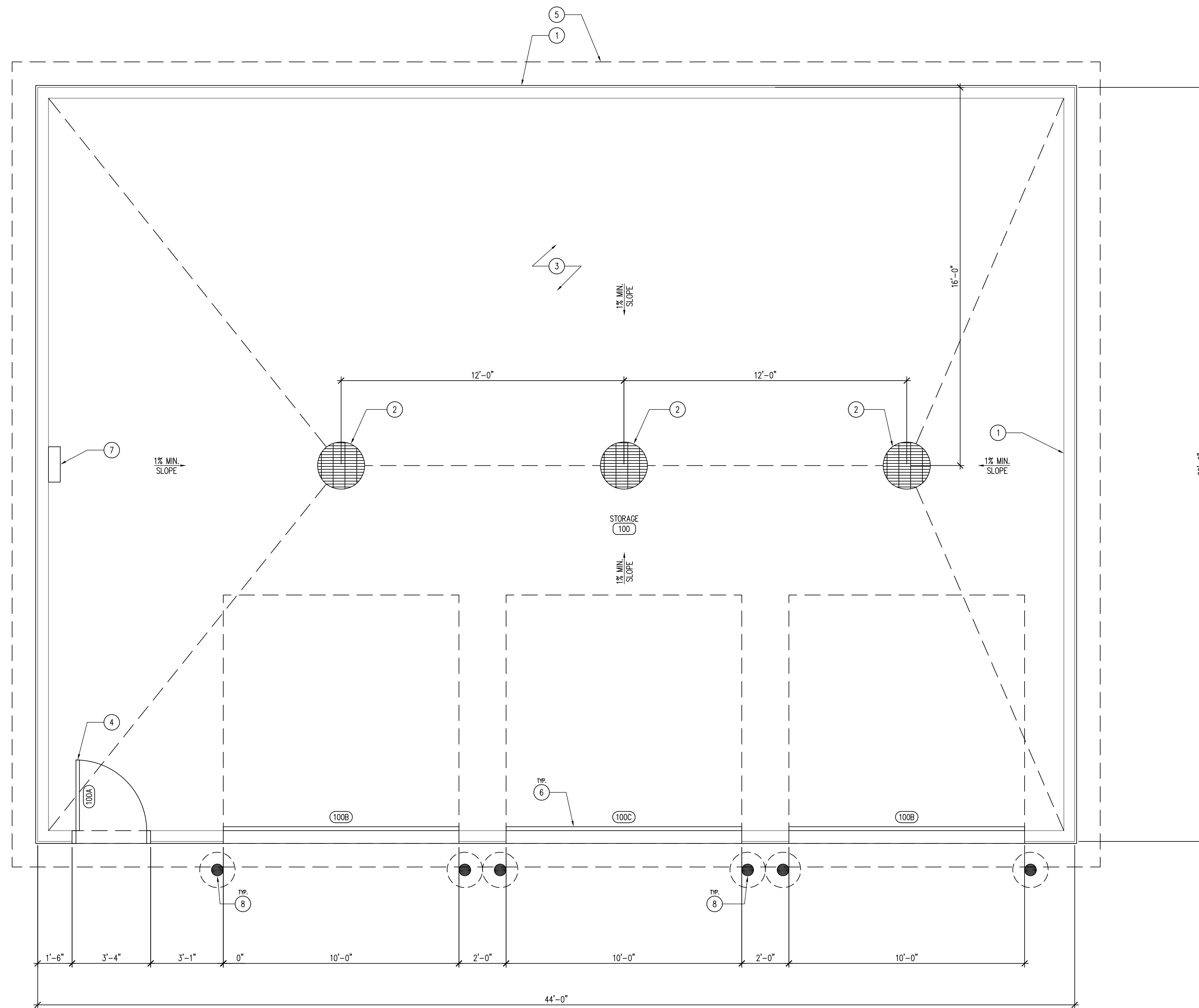
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03.01.2017

SHEET NO:

A-020



01 REFERENCE FLOOR PLAN
SCALE: 3/8" = 1'-0"

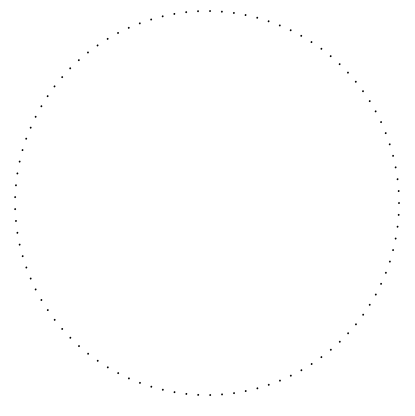
KEYNOTES

1. PROPOSED STORAGE BUILDING, POST-FRAME BUILDING WITH 26 GA MCELROY MAX-RIB ULTRA SIDING, COLOR TBD.
2. 24" DIAMETER X 48" DEEP ROUND DRAINAGE PIT, FILL WITH CLEAN CLASS A ROCK, COVER WITH CAST IRON GRATE, INSET IN CONCRETE WITH STEEL RIM, GRATE TO BE FLUSH WITH CONCRETE SLAB.
3. 6" CONCRETE GARAGE SLAB WITH #4 REBAR 24" O.C. BOTH DIRECTIONS OVER 6" SUBBASE. SMOOTH TROWEL FLOOR FINISH, SLOPE FLOOR, 1/2% MINIMUM, TO DRAINS AS SHOWN.
4. DOOR AS SCHEDULED, REFER TO SHEET A-600.
5. ROOF LINE ABOVE.
6. OVERHEAD GARAGE DOOR, CHI 3242. TRIM AROUND DOOR TO MATCH ROOF COLOR. REFER TO DOOR SCHEDULE SHEET A-600.
7. 100 AMP ELECTRICAL SERVICE PANEL, REFER TO SHEET A-110.
8. STEEL TRAFFIC BOLLARDS WITH BROWN PLASTIC PROTECTION SLEEVES, REFER TO DETAIL 02/A-200.

GENERAL NOTES

- A. REFER TO FINISH & DOOR SCHEDULE, SHEET A-600.
- B. ALL ELECTRICAL SHALL BE NEC COMPLIANT AND UP TO ALL CODES AND ORDINANCES REQUIRED BY LAW. ALL OUTLETS TO BE MOUNTED AT 42" A.F.F.
- C. REFER TO INDEX SHEET FOR WALL TYPES, SHEET A-002.
- D. FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION, A-100.
- E. FIELD VERIFY EQUIPMENT LOCATIONS FOR ELECTRICAL OUTLET LOCATIONS. REFER TO ELECTRICAL PLANS.
- F. REFER TO FINISH SCHEDULE SHEET FOR COLOR AND MATERIAL SECTIONS, SHEET A-600.
- G. CONTRACTOR TO HAVE THIS BUILDING, PRIOR TO CONSTRUCTION, PRE-ENGINEERED BY BUILDING SUPPLIER.

CONSULTANT:



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REFERENCE FLOOR PLAN

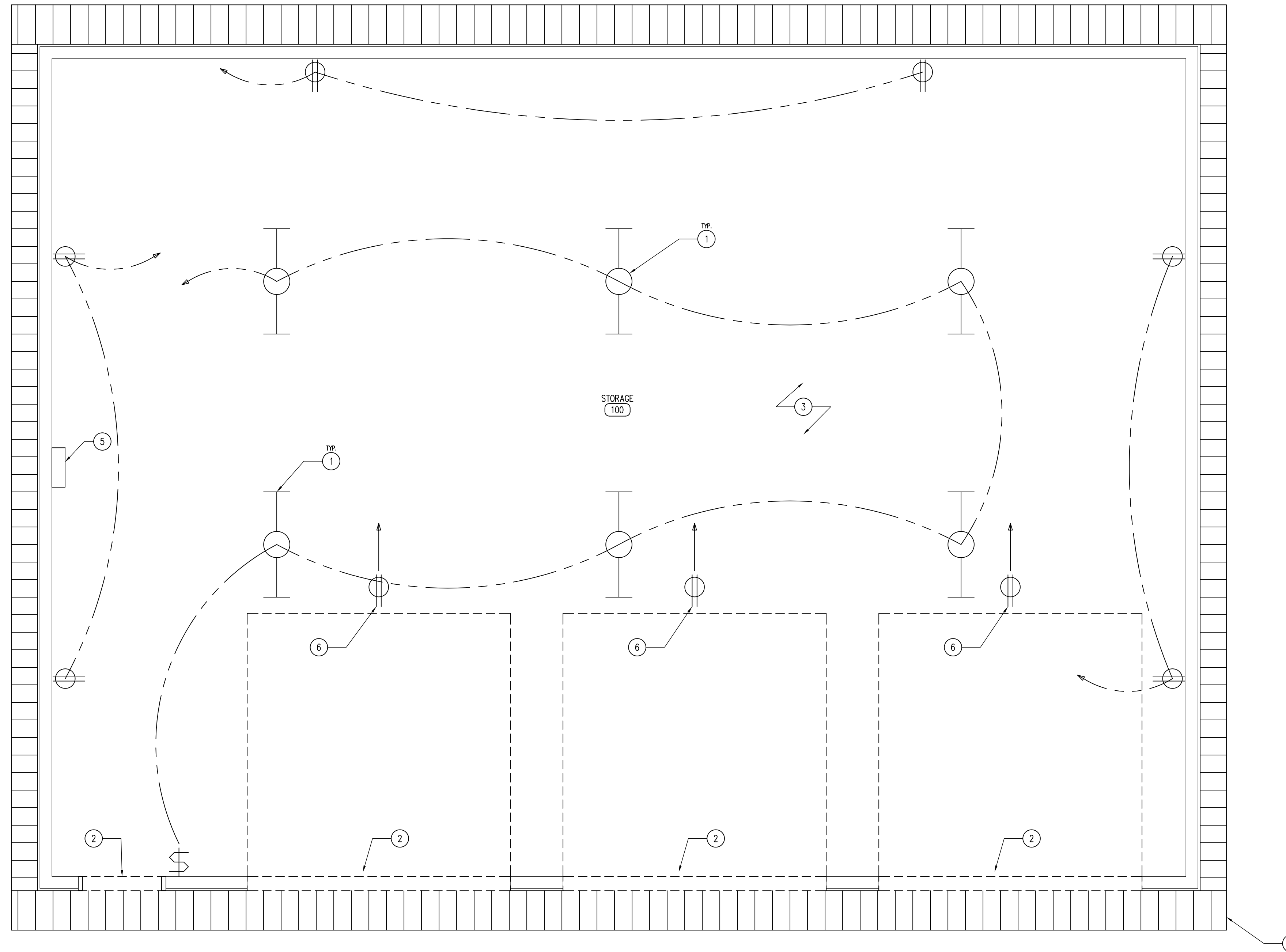
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

DRAWN BY:	PROJECT NUMBER:
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SHEET No:	

A-100

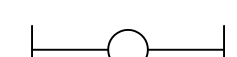



01 REFLECTED CEILING AND POWER PLAN
SCALE: 3/8" = 1'-0"

ELECTRICAL LEGEND

-  120V OUTLET
-  BACK TO PANEL - ON SINGLE BREAKER
-  100 AMP SERVICE PANEL - COMPLY WITH ALL NEC CODE REQUIREMENTS

LIGHTING LEGEND

-  2 X 4 FLUORESCENT LIGHT FIXTURE: 4 LAMP, 32 WATT, LITHONIA AF10432
-  SINGLE-POLE LIGHT SWITCH

KEYNOTES

1. ELECTRICAL LIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS FOR FIXTURE SPECIFICATIONS AND POWER REQUIREMENTS.
2. DOOR HEADER BELOW.
3. NO CEILING -- OPEN TO STRUCTURE ABOVE.
4. FLUSH SOFFIT PANELS TO MATCH STANDING SEAM METAL ROOF.
5. 100 AMP BREAKER PANEL.
6. GARAGE DOOR OUTLET.

GENERAL NOTES

- A. REFER TO FINISH & DOOR SCHEDULE, SHEET A-600.
- B. ALL ELECTRICAL SHALL BE NEC COMPLIANT AND UP TO ALL CODES AND ORDINANCES REQUIRED BY LAW. ALL OUTLETS TO BE MOUNTED AT 42" A.F.F.
- C. REFER TO INDEX SHEET FOR WALL TYPES, SHEET A-002.
- D. FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION, A-100.
- E. FIELD VERIFY EQUIPMENT LOCATIONS FOR ELECTRICAL OUTLET LOCATIONS. REFER TO ELECTRICAL PLANS.
- F. REFER TO FINISH SCHEDULE SHEET FOR COLOR AND MATERIAL SECTIONS, SHEET A-600.
- G. CONTRACTOR TO HAVE THIS BUILDING, PRIOR TO CONSTRUCTION, PRE-ENGINEERED BY BUILDING SUPPLIER.

REFLECTED CEILING AND POWER PLAN

BOAT STORAGE BUILDING FOR:
AHQABI STATE PARK

WARREN COUNTY, IOWA
16510 118TH AVE.

**IOWA DEPARTMENT OF
NATURAL RESOURCES**

ENGINEERING SERVICES - WALLACE BUILDING
502 E. 9TH ST., DES MOINES, IA 50319-0034
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F: 515.725.8202



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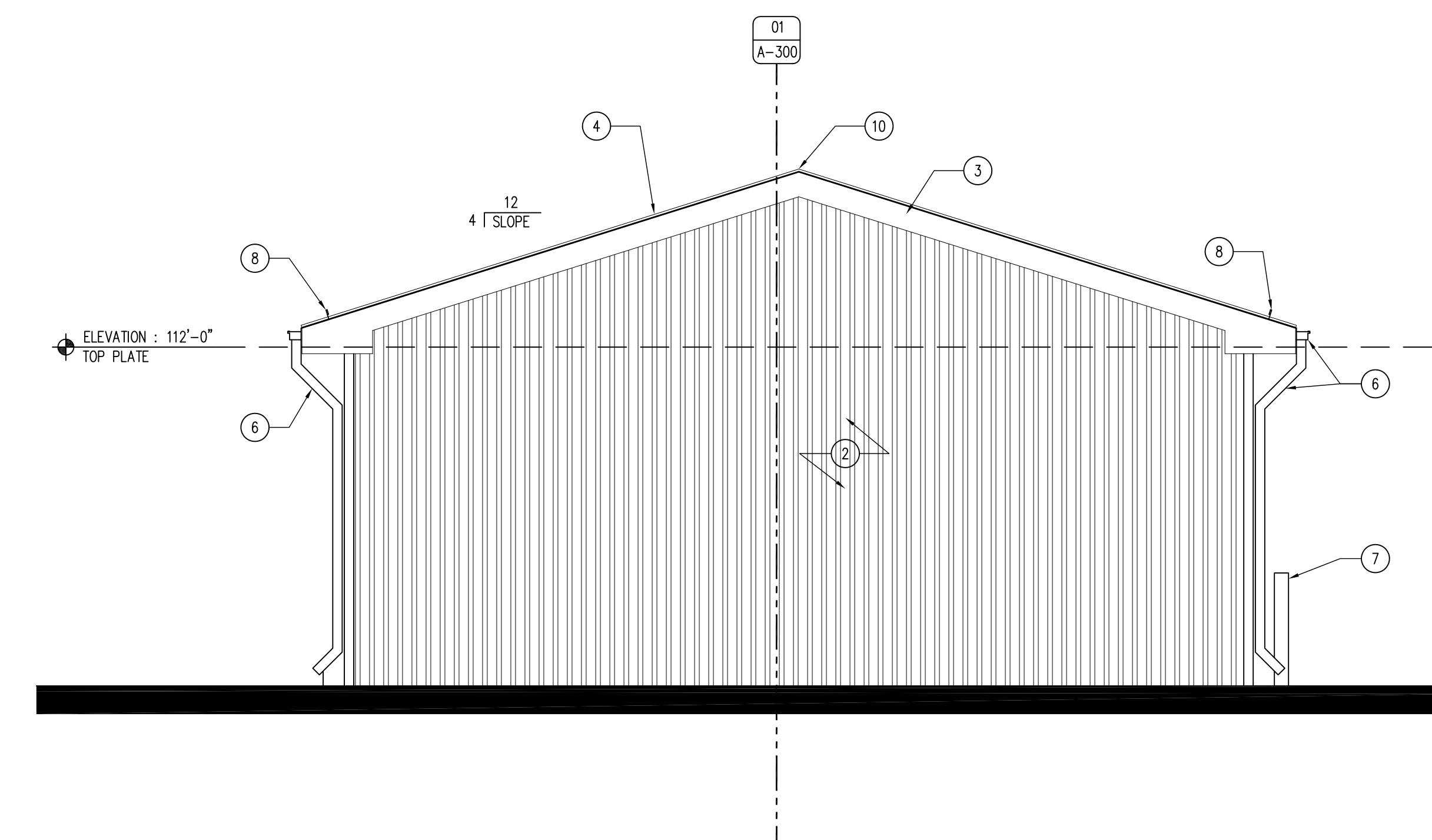
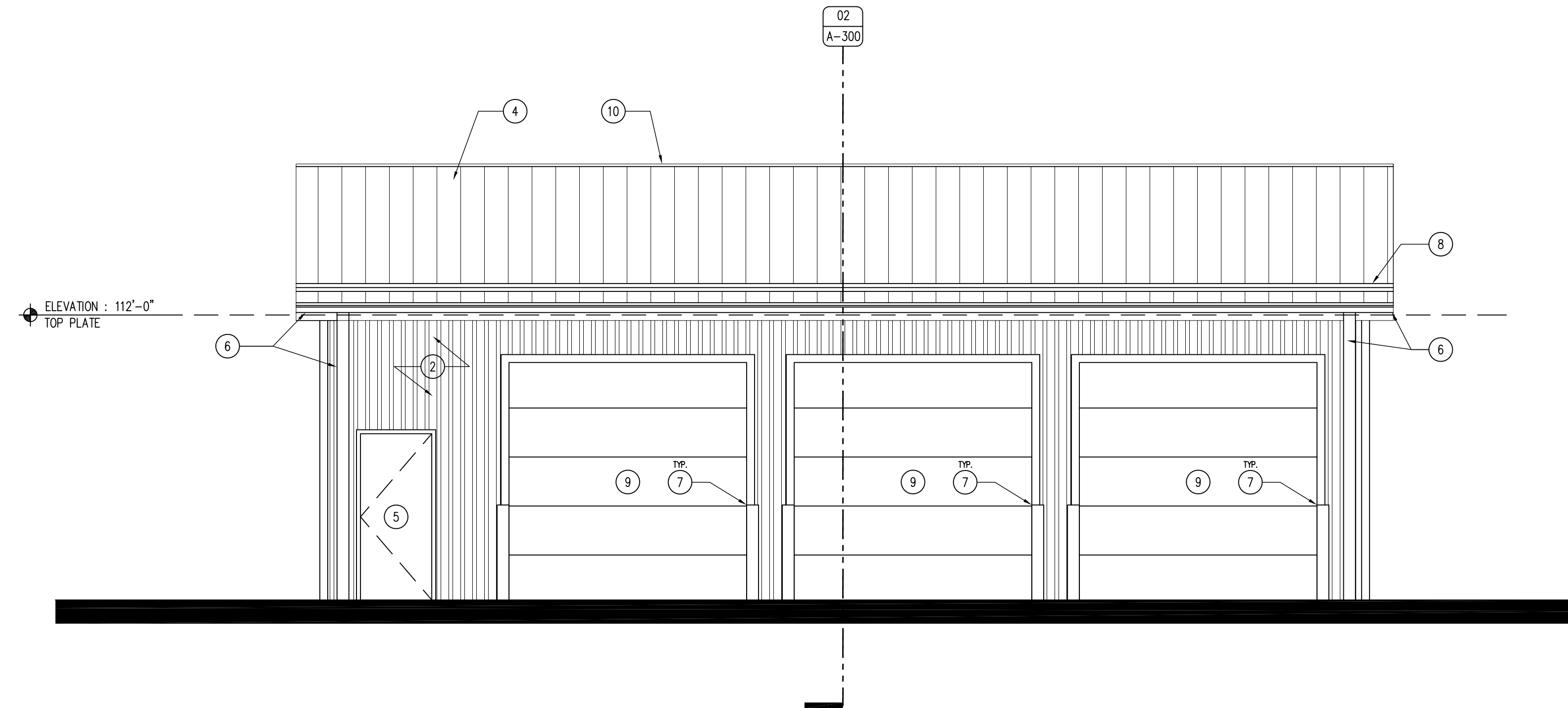
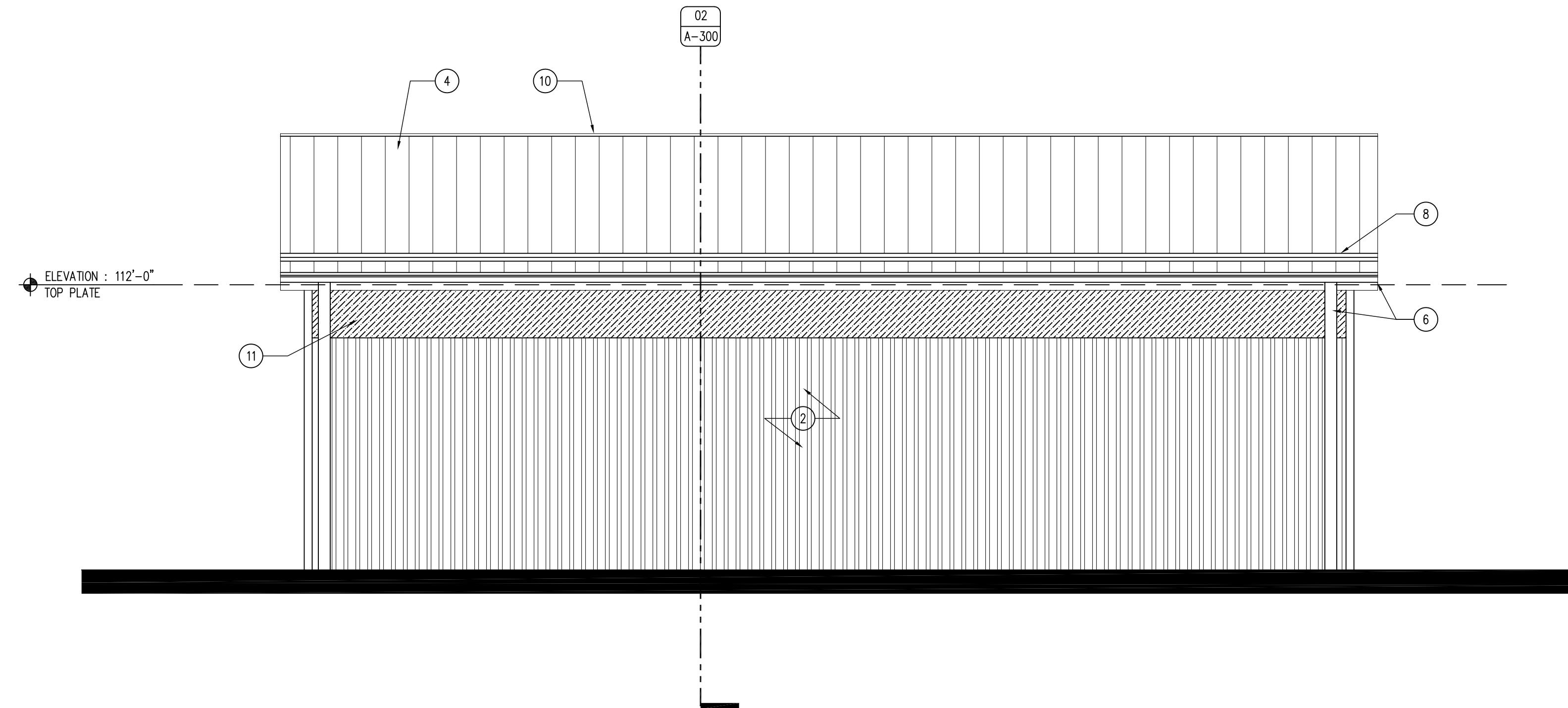
A-110

04 NOT USED
SCALE: 1/4" = 1'-0"

03 BUILDING ELEVATION - NORTH
SCALE: 1/4" = 1'-0"

02 BUILDING ELEVATION - WEST
SCALE: 1/4" = 1'-0"

01 BUILDING ELEVATION - SOUTH
SCALE: 1/4" = 1'-0"



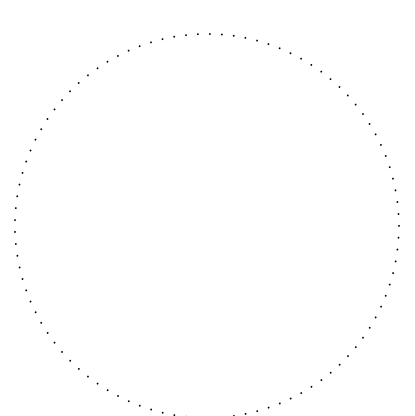
KEYNOTES

GENERAL NOTES

1. POST-FRAME BUILDING STRUCTURE, BY BUILDING MANUFACTURER.
2. MCELROY MAX-RIB ULTRA WITH KYNAR 500 FINISH, REFER TO FINISH SCHEDULE.
3. METAL VENTED FLUSH SOFFIT AND FASCIA PANEL. COLOR TO MATCH ROOF.
4. MCELROY MEDALLION-LOK 24 GA. STANDING SEAM METAL ROOF, COLOR TO BE DARK BRONZE.
5. DOOR AS SCHEDULED. REFER TO SHEET A-600.
6. 6" STANDARD METAL GUTTER AND DOWNSPOUT SYSTEM TO MATCH ROOF, FASCIA AND SOFFIT.
7. TRAFFIC BOLLARD WITH PLASTIC COVER SLEEVE, SEE DETAIL 03/A-300.
8. S-SI COLOR-GARD SNOW AND ICE GUARD BAR. PLACE ENTIRE EDGE OF EAVE BOTH SIDES.
9. OVERHEAD GARAGE DOOR, CHI 3242. TRIM AROUND DOOR TO MATCH ROOF COLOR. REFER TO DOOR SCHEDULE SHEET A-600.
10. VENTED RIDGE CAP, BY ROOFING MANUFACTURER.
11. 2'-0" POLYCARBONATE WINDOW SIDING, ENTIRE LENGTH OF BACKSIDE OF BUILDING.

- A. REFER TO FINISH & DOOR SCHEDULE, SHEET A-600.
- B. ALL ELECTRICAL SHALL BE NEC COMPLIANT AND UP TO ALL CODES AND ORDINANCES REQUIRED BY LAW. ALL OUTLETS TO BE MOUNTED AT 42" A.F.F.
- C. REFER TO INDEX SHEET FOR WALL TYPES, SHEET A-002.
- D. FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION, A-100.
- E. FIELD VERIFY EQUIPMENT LOCATIONS FOR ELECTRICAL OUTLET LOCATIONS. REFER TO ELECTRICAL PLANS.
- F. REFER TO FINISH SCHEDULE SHEET FOR COLOR AND MATERIAL SECTIONS, SHEET A-600.
- G. CONTRACTOR TO HAVE THIS BUILDING, PRIOR TO CONSTRUCTION, PRE-ENGINEERED BY BUILDING SUPPLIER.

CONSULTANT:



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EXTERIOR ELEVATIONS AND DETAILS

BOAT STORAGE BUILDING FOR:
AHQUBI STATE PARK

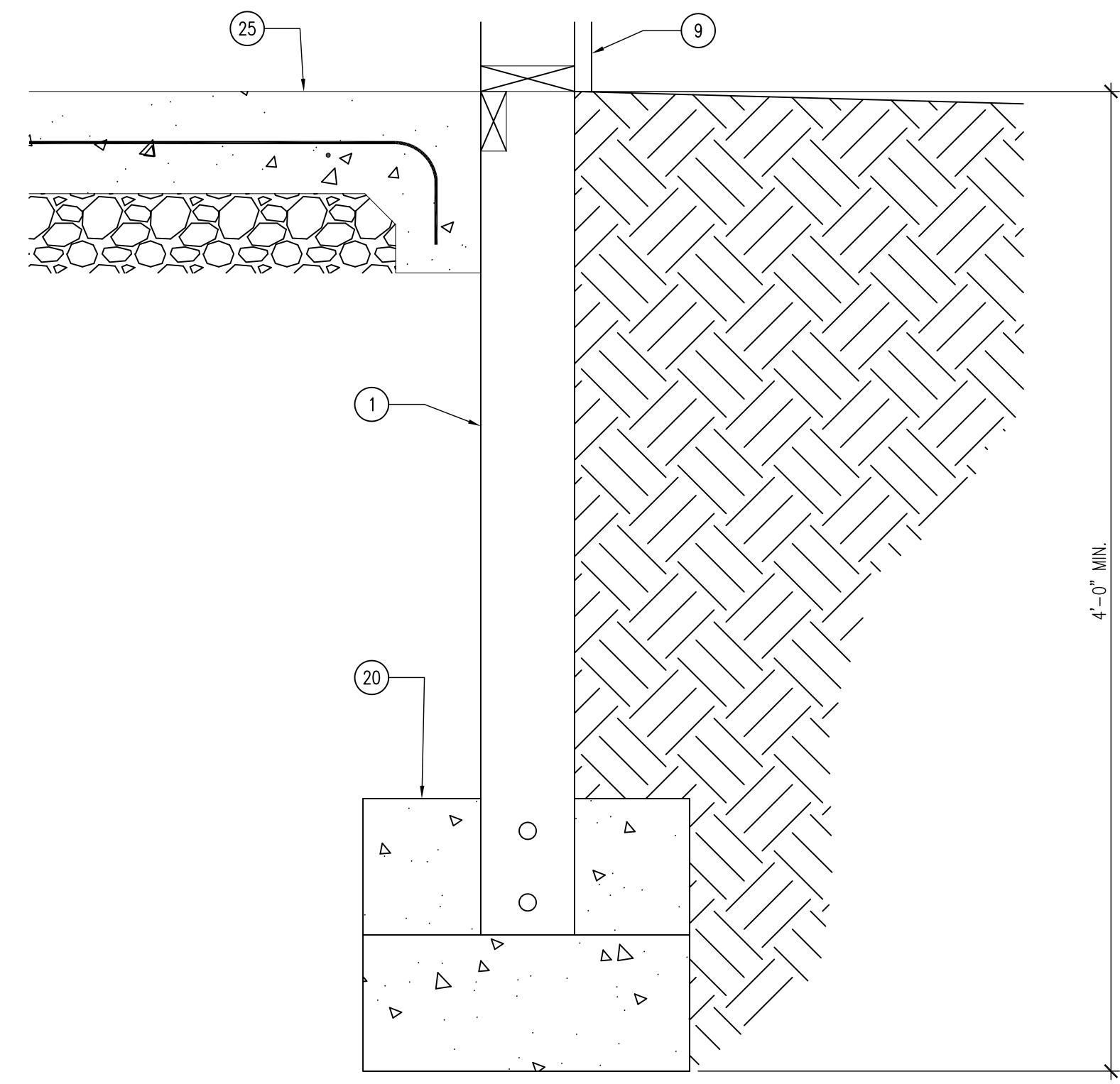
WARREN COUNTY, IOWA

16510 118TH AVE

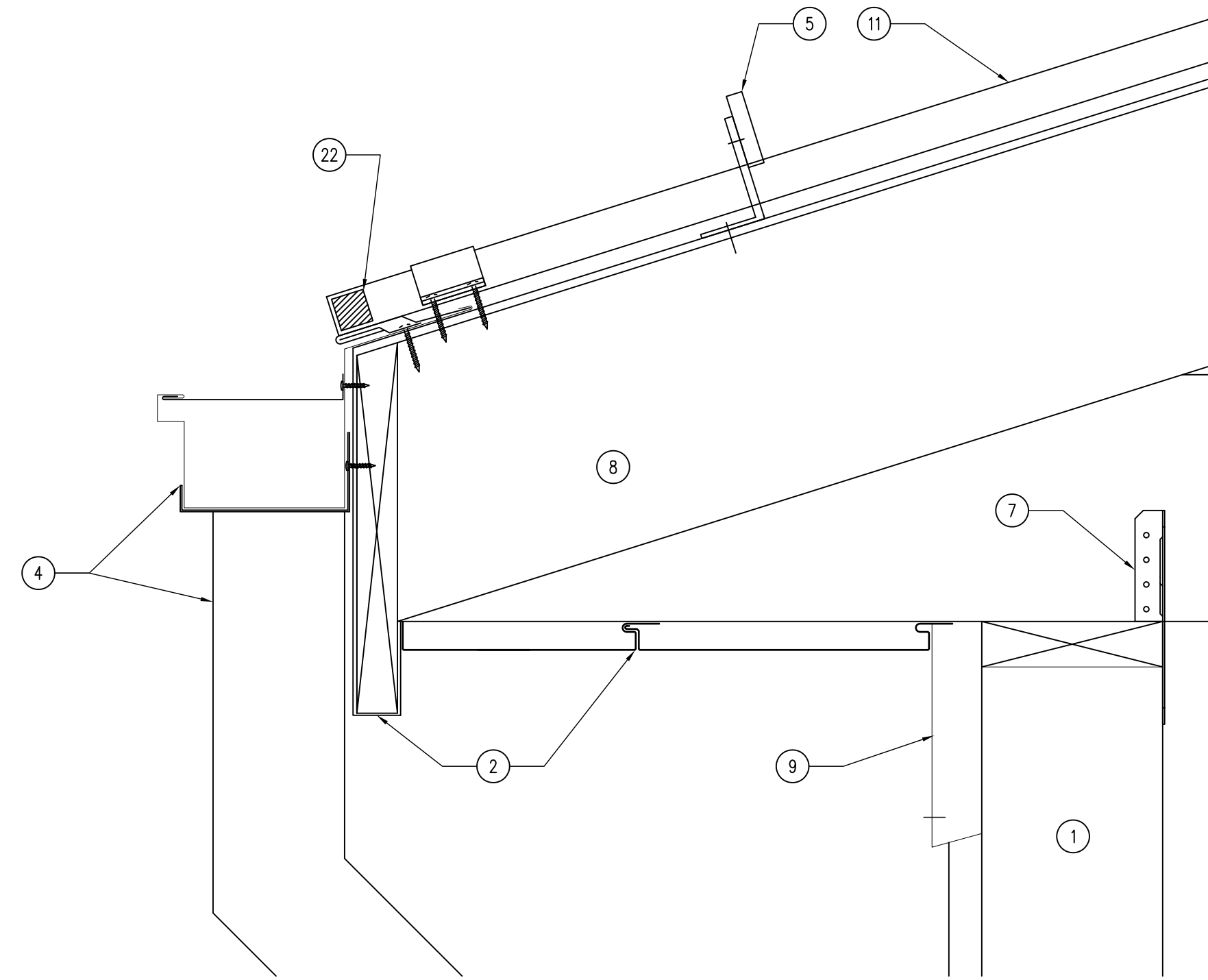
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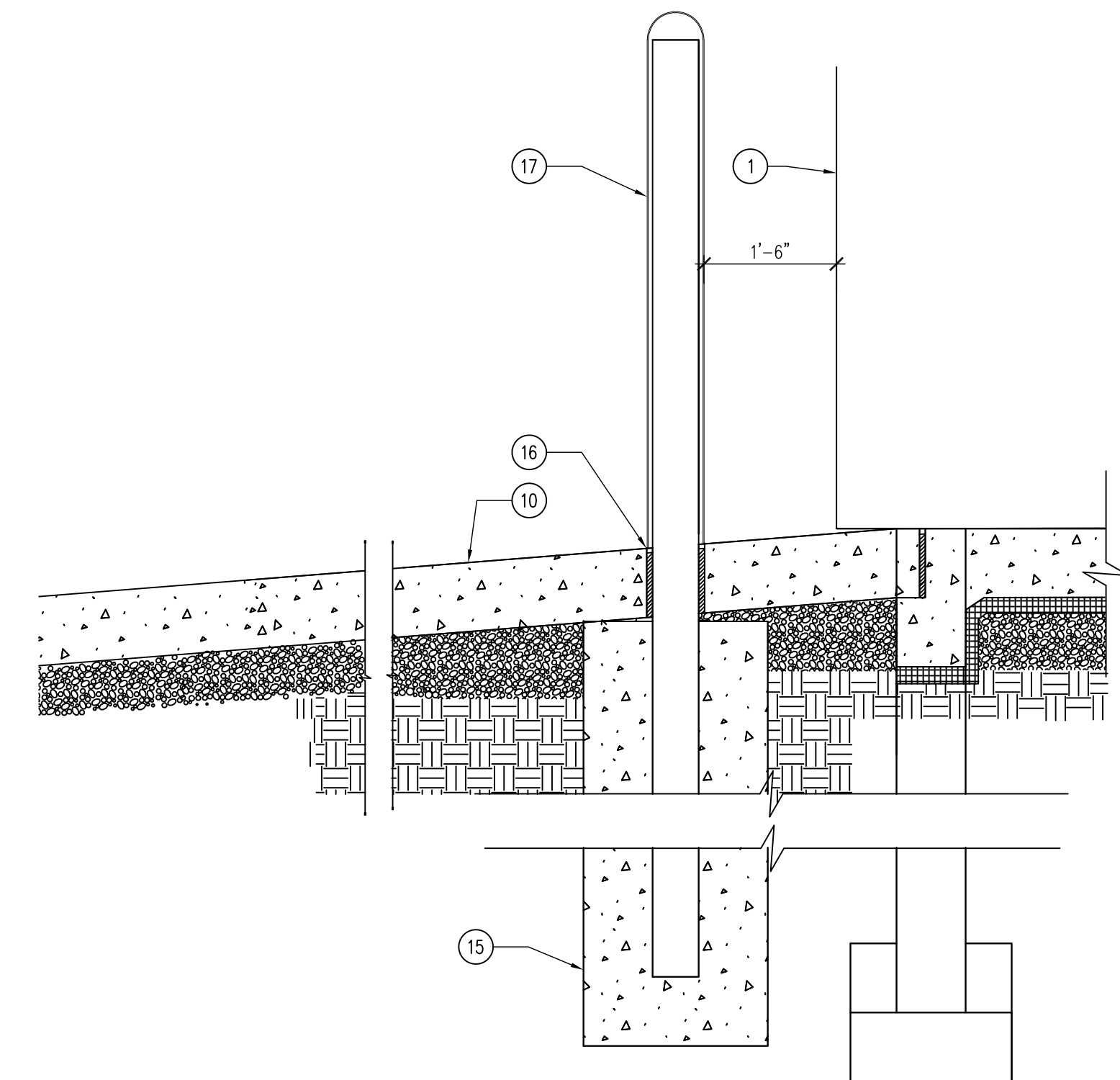
A-200



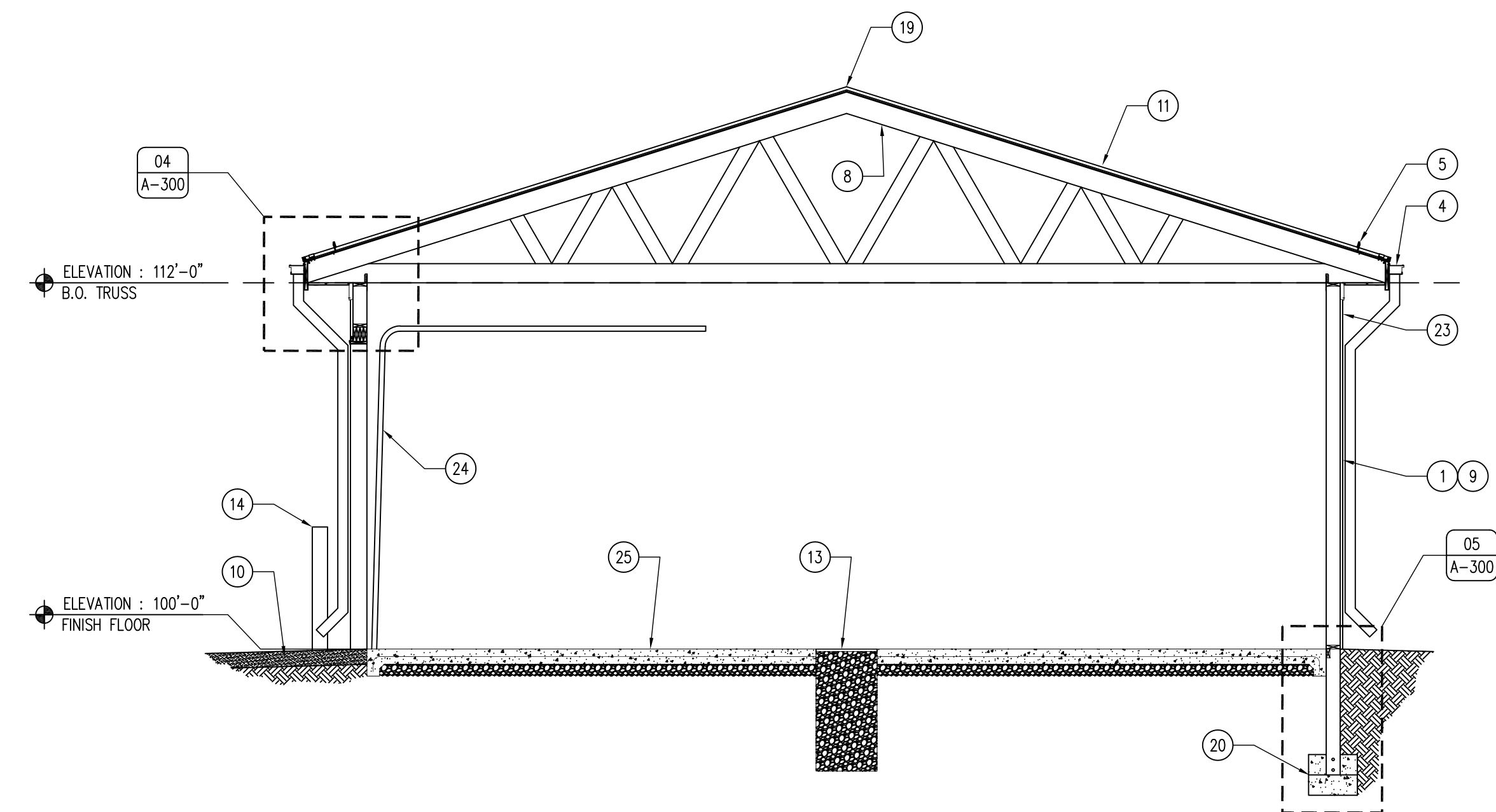
05 DETAIL - POST-FRAME FOUNDATION
SCALE: 1 1/2" = 1'-0"



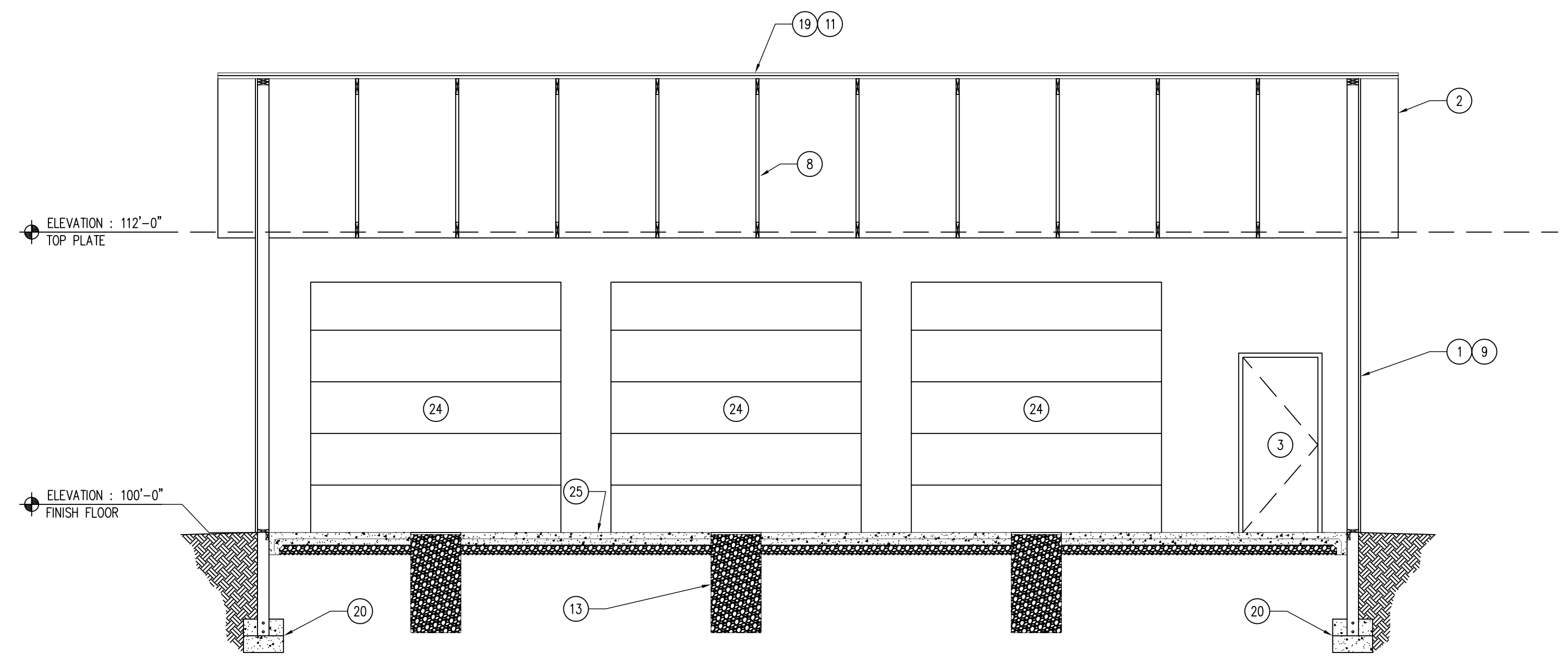
04 DETAIL - ROOF EAVE
SCALE: 3" = 1'-0"



03 DETAIL - BOLLARD
SCALE: NTS = 1'-0"



02 BUILDING SECTION
SCALE: 1/4" = 1'-0"



01 BUILDING SECTION
SCALE: 1/4" = 1'-0"

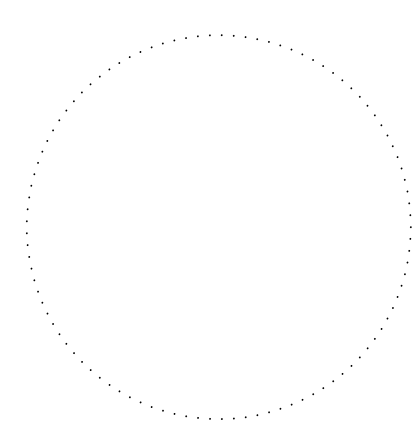
KEYNOTES

1. POST-FRAME BUILDING STRUCTURE, BY BUILDING MANUFACTURER.
2. METAL VENTED FLUSH SOFFIT AND FASCIA PANEL. COLOR TO MATCH ROOF.
3. DOOR AS SCHEDULED. REFER TO SHEET A-600.
4. 6" STANDARD METAL GUTTER AND DOWNSPOUT SYSTEM TO MATCH ROOF, FASCIA AND SOFFIT.
5. S-51 COLOR-GARD SNOW AND ICE GUARD BAR. PLACE ENTIRE EDGE OF EAVE BOTH SIDES.
6. 2X BLOCKING AS REQUIRED.
7. TRUSS HANGER CLIP (SPECIFIED BY PRE-ENGINEERED BUILDING SUPPLIER).
8. TRUSS (SPECIFIED BY PRE-ENGINEERED BUILDING SUPPLIER).
9. MCELROY MAX-RIB ULTRA WITH KYNAR 500 FINISH, REFER TO FINISH SCHEDULE.
10. 6" CLASS A ROAD STONE, SEE SITE PLAN SHEET A-010.
11. MCELROY MEDALLION-LOK 24 GA. STANDING SEAM METAL ROOF OVER 3/4" PLYWOOD SUBSTRATE AND WATER AND ICE SHIELD ON ENTIRE ROOF, COLOR TO BE DARK BRONZE.
12. EARTH BACKFILL.
13. 2'-0" DIAMETER X 4'-0" DEEP DRAIN PIT. FILL WITH 1" CLEAN STONE, WRAP IN ENGINEERING FABRIC. INCLUDE STEEL MANHOLE DRAIN COVER. CONCRETE SLAB TO HAVE STEEL LIP TO ACCEPT COVER.
14. TRAFFIC BOLLARD WITH PLASTIC COVER SLEEVE, SEE DETAIL 03/A-300.
15. 24" DIAMETER CONCRETE FOOTING, MINIMUM 48" DEEP.
16. 1/2" EXPANSION JOINT WITH CONTINUOUS SEALANT.
17. 6" DIAMETER X 3/8" THICK STEEL POST 7'-0" LONG EMBEDDED IN CONCRETE FOOTING, FILL POST SOLID WITH CONCRETE GROUT. PROVIDE BLACK PLASTIC BOLLARD COVER WITH WHITE STRIPING.
18. NOT USED.
19. RIDGE VENT AND CAP, PER MANUFACTURER'S RECOMMENDATIONS, MATCH ROOF COLOR.
20. POST-FRAME FOUNDATION BY BUILDING MANUFACTURER, REVIEW DETAIL 05/A-300.
21. NOT USED.
22. NEOPRENE STEEL SIDING GASKET, PER MANUFACTURER.
23. 2'-0" POLYCARBONATE WINDOW SIDING, ENTIRE LENGTH OF BACKSIDE OF BUILDING.
24. OVERHEAD GARAGE DOOR, CHI 3242. TRIM AROUND DOOR TO MATCH ROOF COLOR. REFER TO DOOR SCHEDULE SHEET A-600.
25. 6" CONCRETE SLAB OVER 6" OF ENGINEERED SUBBASE, CONTINUOUS #4 REBAR 24" O.C. BOTH DIRECTIONS, SMOOTH TROWEL FINISH.

GENERAL NOTES

- A. REFER TO FINISH & DOOR SCHEDULE, SHEET A-600.
- B. ALL ELECTRICAL SHALL BE NEC COMPLIANT AND UP TO ALL CODES AND ORDINANCES REQUIRED BY LAW. ALL OUTLETS TO BE MOUNTED AT 42" A.F.F.
- C. REFER TO INDEX SHEET FOR WALL TYPES, SHEET A-002.
- D. FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION, A-100.
- E. FIELD VERIFY EQUIPMENT LOCATIONS FOR ELECTRICAL, OUTLET LOCATIONS. REFER TO ELECTRICAL PLANS.
- F. REFER TO FINISH SCHEDULE SHEET FOR COLOR AND MATERIAL SECTIONS, SHEET A-600.
- G. CONTRACTOR TO HAVE THIS BUILDING, PRIOR TO CONSTRUCTION, PRE-ENGINEERED BY BUILDING SUPPLIER.

CONSULTANT:



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BUILDING SECTIONS AND ROOF DETAILS

BOAT STORAGE BUILDING FOR:
AHQUBI STATE PARK

WARREN COUNTY, IOWA
16510 118TH AVE.

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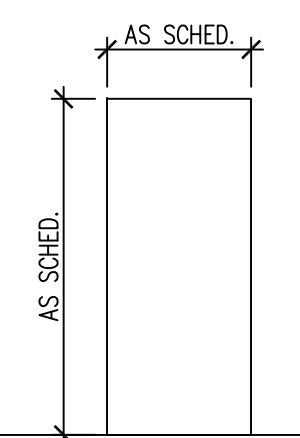
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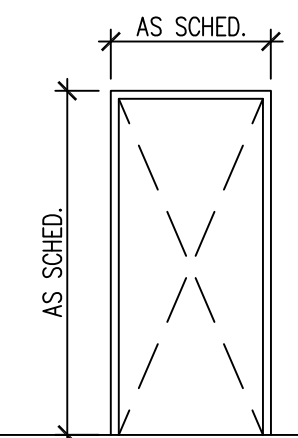
A-300

DOOR TYPES



D-1 STEELCRAFT L18 HONEYCOMB CORE EXTERIOR STEEL DOOR

FRAME TYPES



F-1 EXTERIOR HOLLOW METAL

FINISH SCHEDULE

Table with columns: ROOM #, ROOM NAME, FLOORING, BASE, NORTH WALL FINISH, EAST WALL FINISH, SOUTH WALL FINISH, WEST WALL FINISH, CEILING, NOTES. Row 100: STORAGE, CONC-1, -, -, -, -, -, OPEN.

HARDWARE TYPES

- HARDWARE SET NO. 1 - DOORS: 100A
3 EA. HINGES FB8179 4 1/2 X 4 1/2
1 EA. STORE LOCKSET NDS3PO (ATHENS)
1 EA. DEADBOLT B660P SERIES
3 EA. PERIMETER SEALS BLACK GASKET
1 EA. THRESHOLD SEAL BLACK BRUSH TYPE
1 EA. ADA THRESHOLD PLATE
1 EA. CLOSER LON 4111 CLOSER

FINISH DESCRIPTION

Table with columns: FINISH MARK, MATERIAL, MANUFACTURER INFO (COMPANY NAME, PRODUCT NUMBER), DIMENSION, COLOR, FINISH, COMMENTS. Rows include FLOOR FINISH (CONC-1 SEALED CONCRETE) and EXTERIOR FINISH (SS-1 STEEL SIDING, RF-1 STEEL ROOFING).

12 NOT USED SCALE: 1 1/2" = 1'-0"

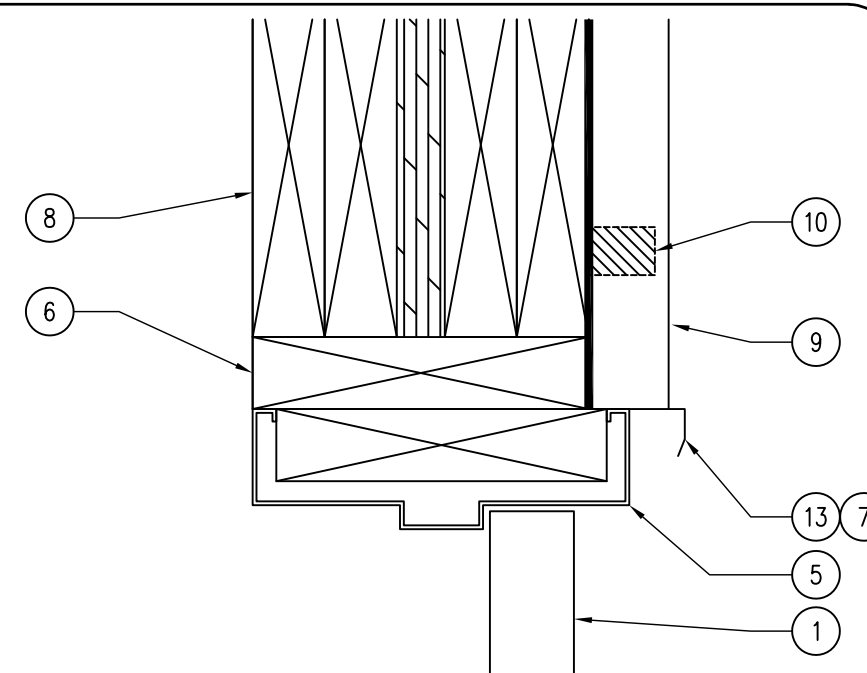
11 NOT USED SCALE: 1 1/2" = 1'-0"

10 NOT USED SCALE: 1 1/2" = 1'-0"

09 NOT USED SCALE: 3" = 1'-0"

08 NOT USED SCALE: 3" = 1'-0"

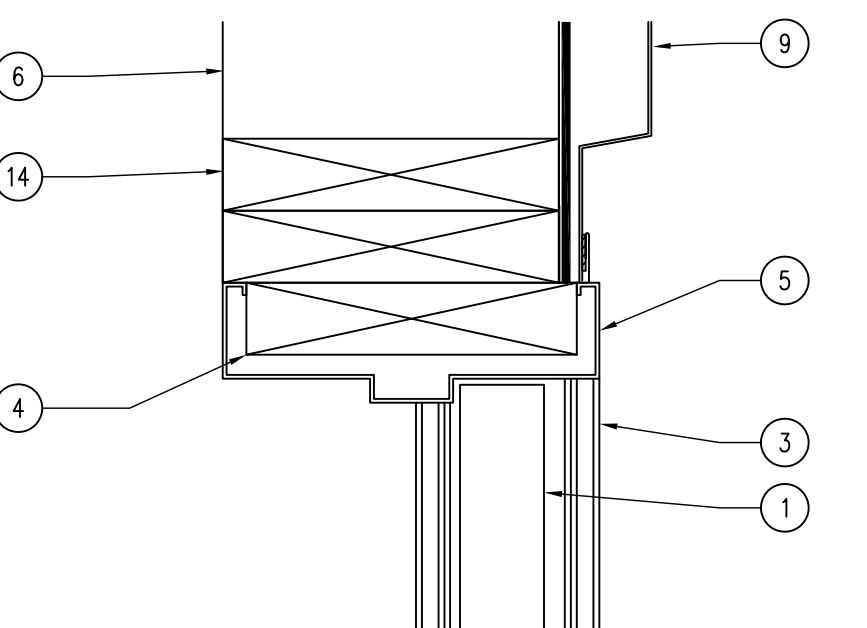
07 DOOR DETAIL - HEADER SCALE: 3" = 1'-0"



06 NOT USED SCALE: 3" = 1'-0"

05 NOT USED SCALE: 3" = 1'-0"

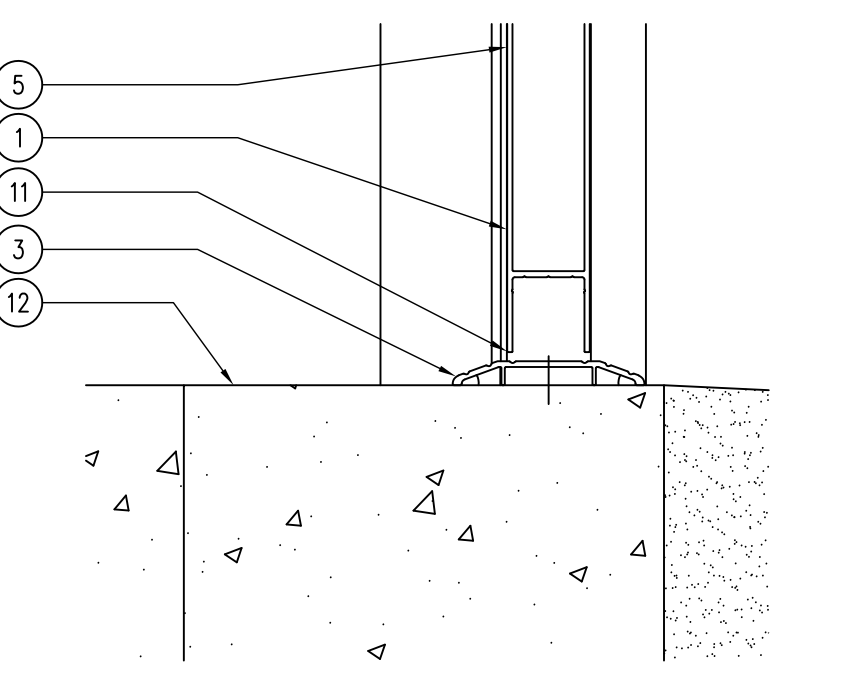
04 DOOR DETAIL - JAMB SCALE: 3" = 1'-0"



03 NOT USED SCALE: 3" = 1'-0"

02 NOT USED SCALE: 3" = 1'-0"

01 DOOR DETAIL - THRESHOLD SCALE: 3" = 1'-0"



KEYNOTES

- 1. DOOR AS SCHEDULED.
2. CONTINUOUS SEALANT AND BACKER ROD
3. ADA COMPLIANT, THRESHOLD.
4. WOOD BLOCKING AS REQUIRED.
5. DOOR FRAME AS SCHEDULED.
6. POST-FRAME STRUCTURE AS SCHEDULED.
7. DOOR DRIP-CAP, BY MANUFACTURER.
8. HEADER, PER MANUF. RECOMMENDATION.
9. STEEL SIDING, AS SCHEDULED.
10. NEOPRENE GASKET, BY MANUFACTURER.
11. BRUSH TYPE GASKET FOR EXTERIOR DOORS.
12. CONCRETE SLAB, REFER TO FINISH SCHEDULE.
13. METAL FLASHING W/ SEALANT, AS REQUIRED.
14. DOOR JAMB FRAMING.

GENERAL NOTES

- A. ALL HARDWARE MODEL NUMBERS BASED ON SCHLAGE "ND-SERIES" LOCKSETS AND "IVES" HARDWARE.
B. HARDWARE FINISH TO BE : "POLISHED CHROME (625)". UNLESS NOTED OTHERWISE.
C. CHECK ALL QUANTITIES, DIMENSIONS AND FINISHES BEFORE ORDERING.

DOOR SCHEDULE

Table with columns: DOOR NUMBER, DIMENSION (WIDTH, HEIGHT, THICK.), TYPE, GLASS, FINISH, FRAME DETAILS (HEAD, JAMB, THRESHOLD), TYPE, FINISH, FIRE RATING LABEL, HARDWARE (SET #, KEYSIDE ROOM NUMBER), COMMENTS. Includes rows for 100A, 100B, 100C, 100D.

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FINISH AND DOOR SCHEDULES

BOAT STORAGE BUILDING FOR: AHQUABI STATE PARK

WARREN COUNTY, IOWA

16510 118TH AVE.

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