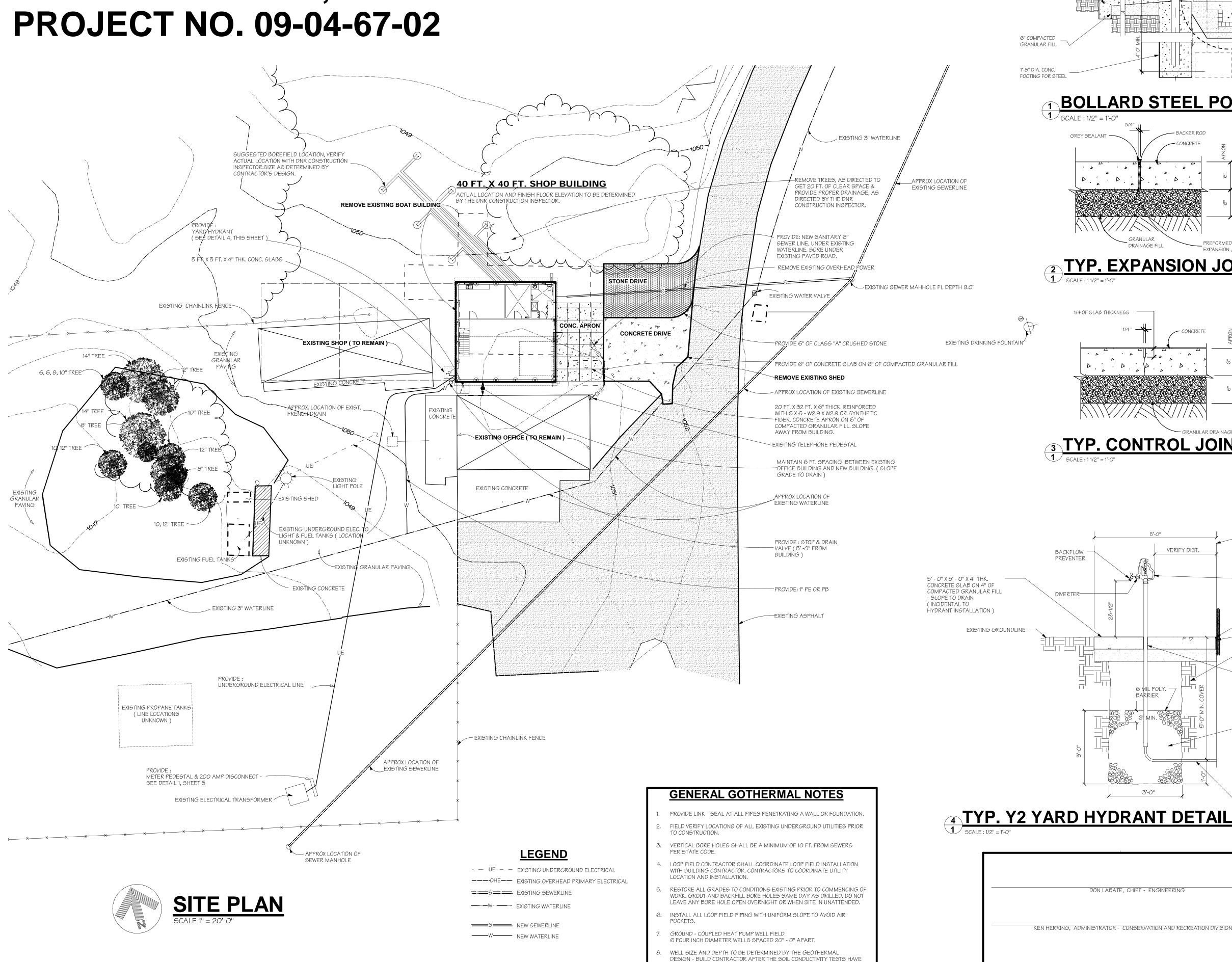
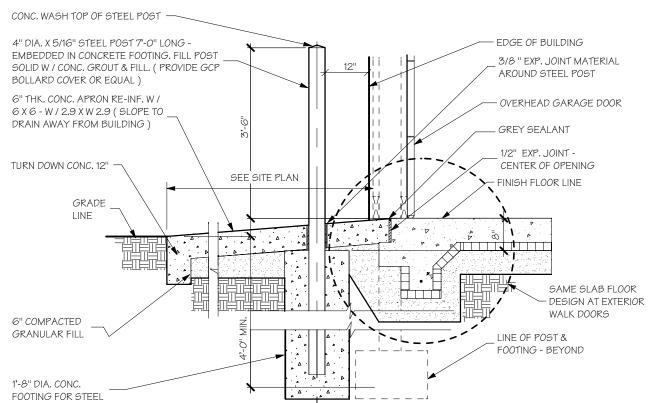
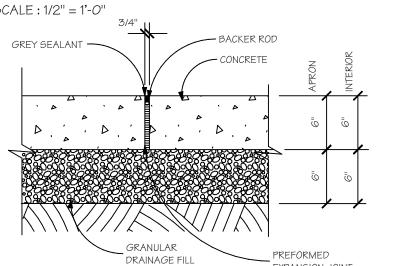
MISSOURI RIVER FISHERIES SHOP BUILDING MONONA COUNTY, IOWA



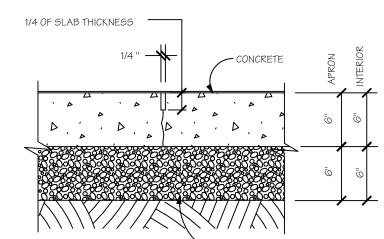
9. SEE ADDITIONAL NOTES ON SHEET 5 MECHANICAL/ELECTRICAL



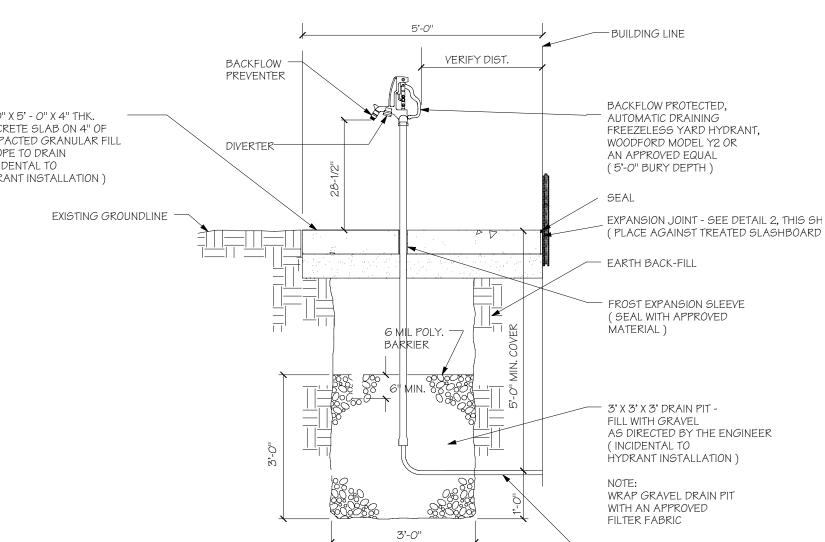
BOLLARD STEEL POST DETAIL

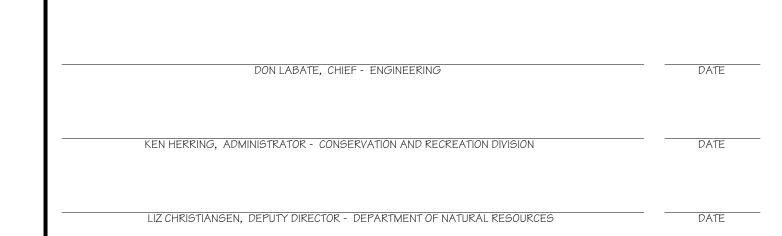


TYP. EXPANSION JOINT DETAIL

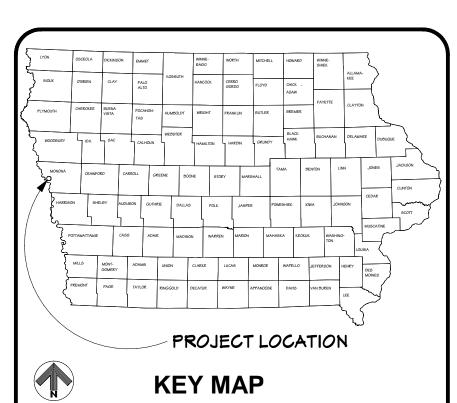


TYP. CONTROL JOINT DETAIL





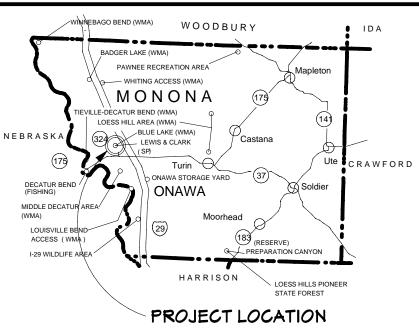
SERVICE TUBING - TO BUILDING



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VICINITY MAP

ESTIMATE OF QUANTITIES

CALCULATIONS. THESE DO NOT RELIEVE CONTRACTOR IN PROVIDING A COMPLETE SYSTEM AS REQUIRED IN THE CONTRACT DOCUMENT CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ADDITIONAL QUANTITIES, WHERE NECESSARY, TO FULLFILL THE CONTRACT AND NO ADDITIONAL PAYMENTS SHALL BE MADE FOR THESE

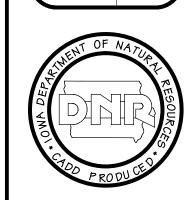
DEMOLITION	LUMP SUM
EARTHWORK	LUMP SUM
6" CONCRETE APRON, DRIVE & (2) 4" THK. SLABS	1,620 SQFT
6" COMPACTED CLASS "A" CRUSHED STONE SURFACING	23 TON
SITE RESTORATION	LUMP SUM
6" X 40' X 40' INTERIOR CONCRETE SLAB	1600 SQFT
40' X 40' POLE BUILDING	1600 SQFT
UNDERFLOOR RADIANT HEATING 40' X 40'	1600 SQFT
HVAC	LUMP SUM
WATER SERVICE	1000 L.F.
6" SEWER LINE	1400 L.F.
ELECTRICAL SERVICE	2400 L.F.
GEOTHERMAL	LUMP SUM

DRAWING INDEX

TITLE	SHEET NO
COVER SHEET, SITE PLAN & SITE DETAILS	1
EXTERIOR ELEVATIONS, DETAILS & SECTIONS	2
FLR. PLAN, MEZZANINE PLAN, DTL. / SECTION & SCHEDU	LES 3
INTERIOR ELEVATIONS & SECTIONS	4
MECHANICAL / ELECTRICAL	5

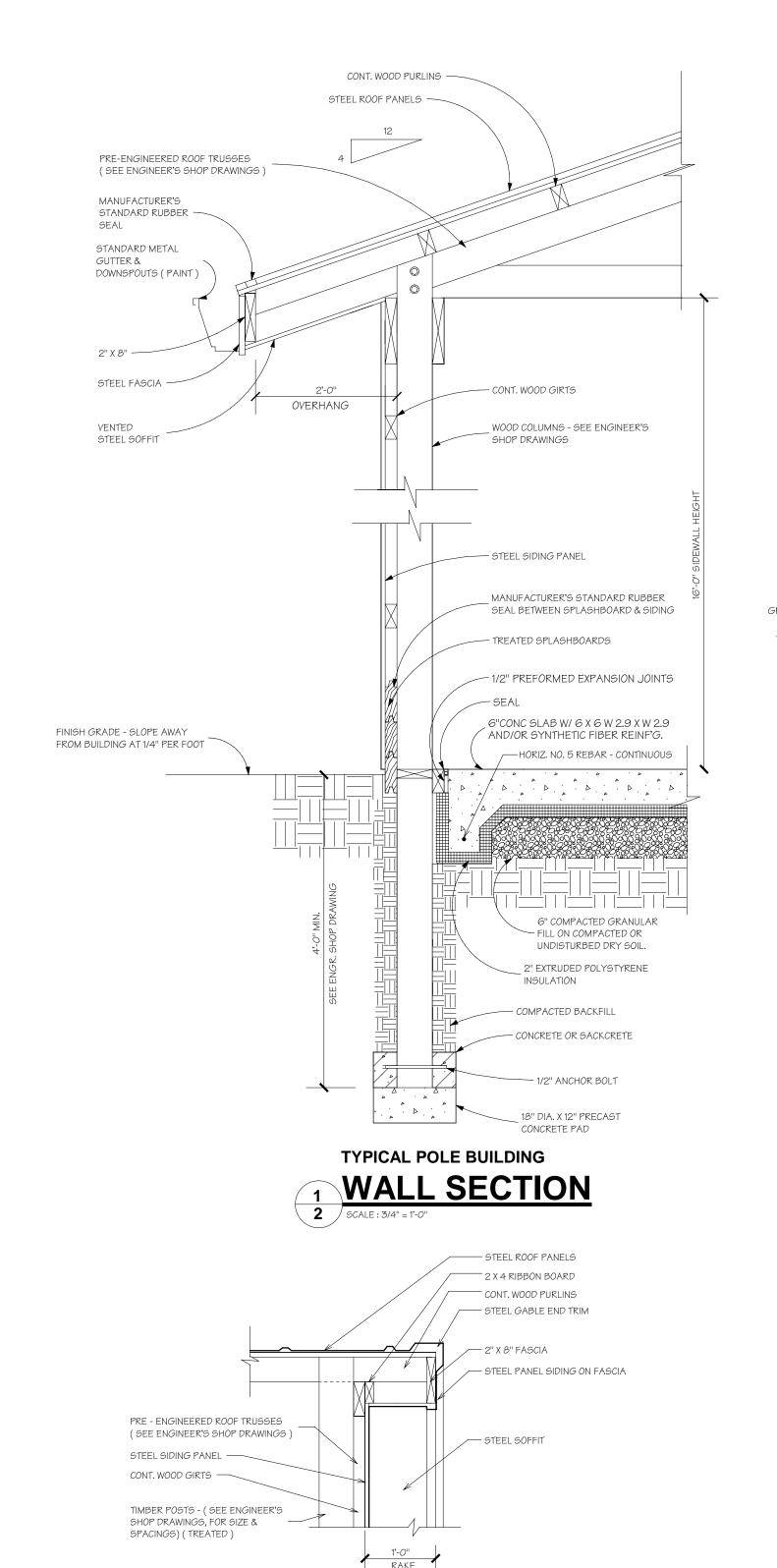
GENERAL NOTES

- CONSTRUCT ENTIRE PROJECT IN ACCORDANCE WITH STATE BUILDING CODE ANSI 117.1 AND THE AMERICAN WITH DISABILITY ACT ACCESSIBILITY GUIDLINES FOR BUILDINGS
- VERIFY ACTUAL LOCATIONS AND ELEVATIONS W / D.N.R. CONSTRUCTION INSPECTOR. DO NOT ALLOW CHANGE OF ELEVATION GREATER THAN 1'-O" OF RISE EVERY 20'-O" OF RUN ON ACCESSIBLE ROUTE. FROM ACCESSIBLE PARKING STALL AND EACH FACILITY.
- ALL DIMENTIONAL LUMBER IN CONTACT WITH THE GROUND AND CONCRETE TO BE TREATED.
- PROVIDE MANUFACTURER STANDARD ANCHORING DEVICES. SIDEWALK PAVING:
- PROVIDE 3/4" EXPANSION JOINTS WHERE WALKS MEET OTHER WALKS, CURBS, SLABS AND AT EVERY 45' INTERVALS.
- PROVIDE 1/8" WIDE BY 1/4" CONTROL JOINT EVERY 5'-0" INTERVAL OR AS SHOWN.

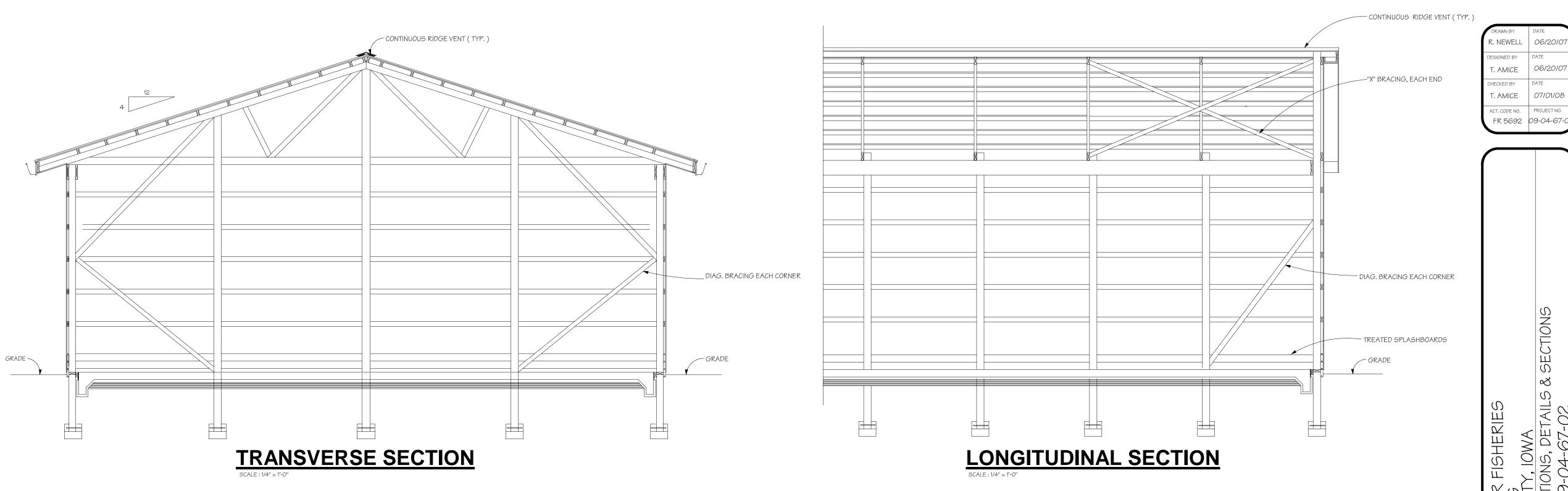


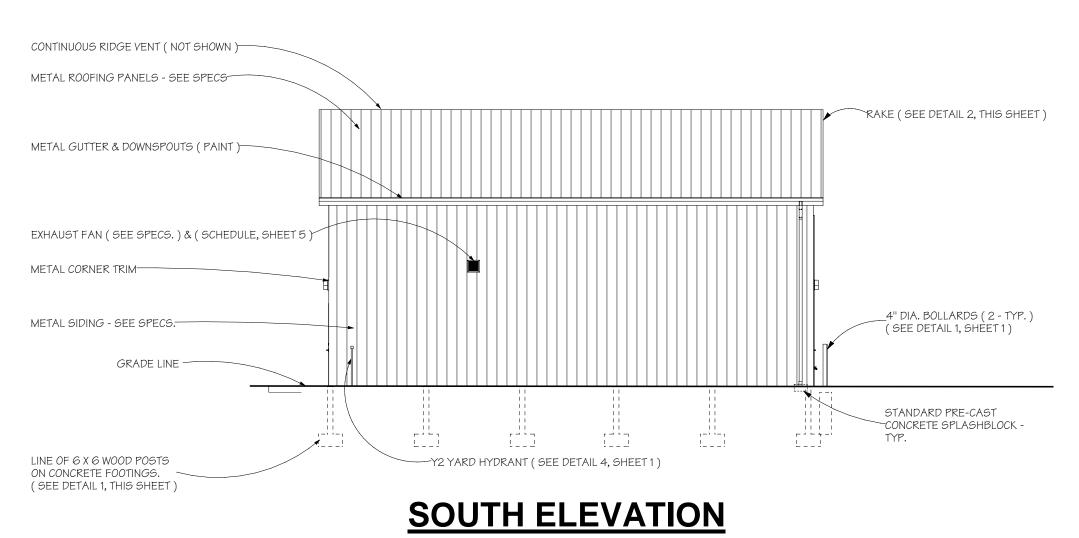
ATURAL BUILDING

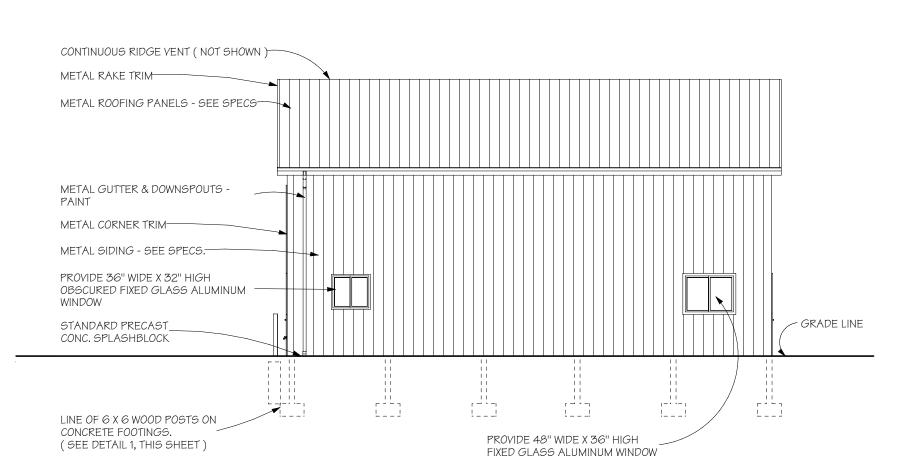




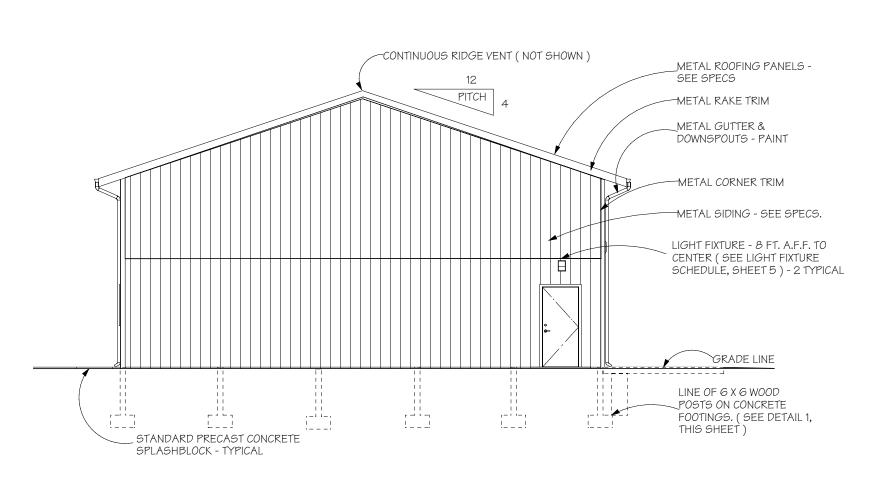




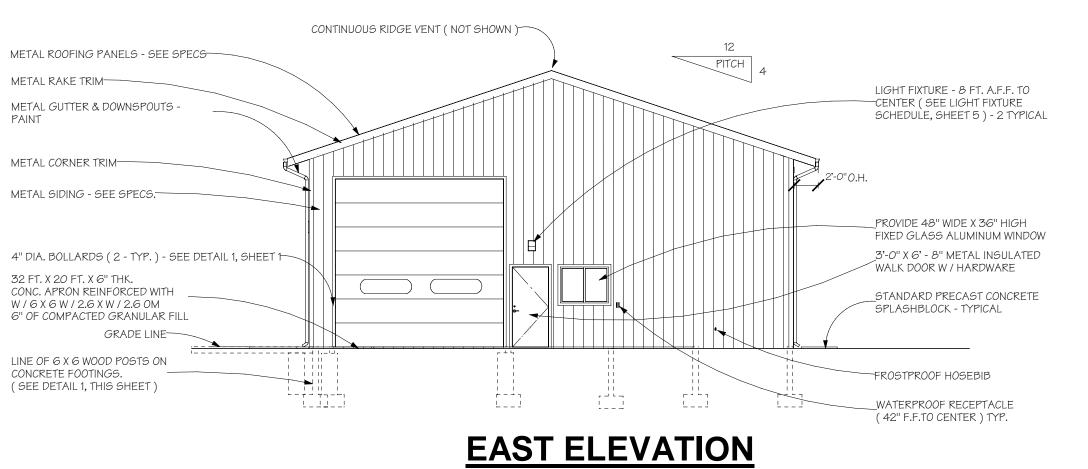




NORTH ELEVATION



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

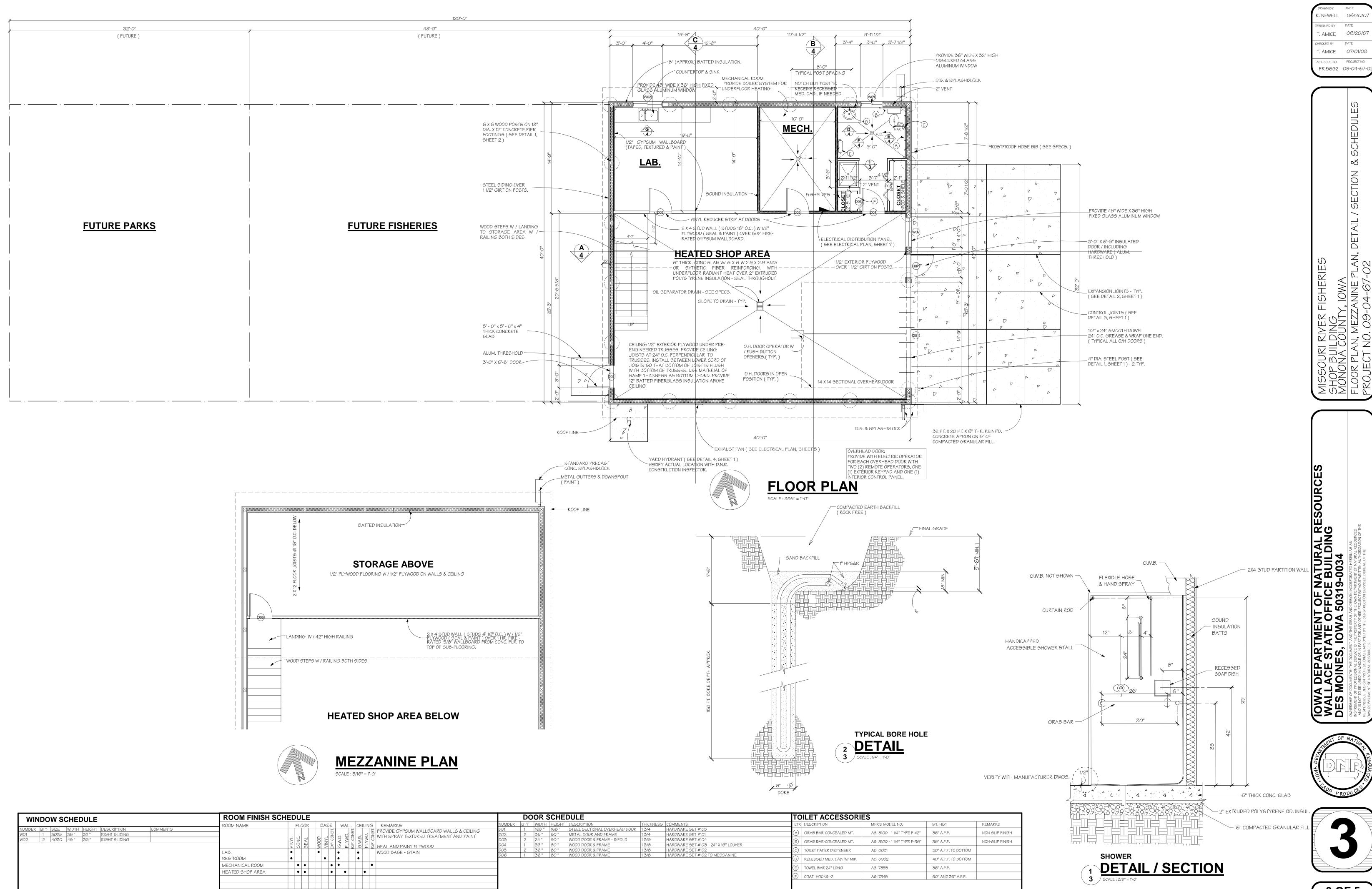




07/01/08

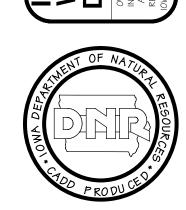
& SECTIONS

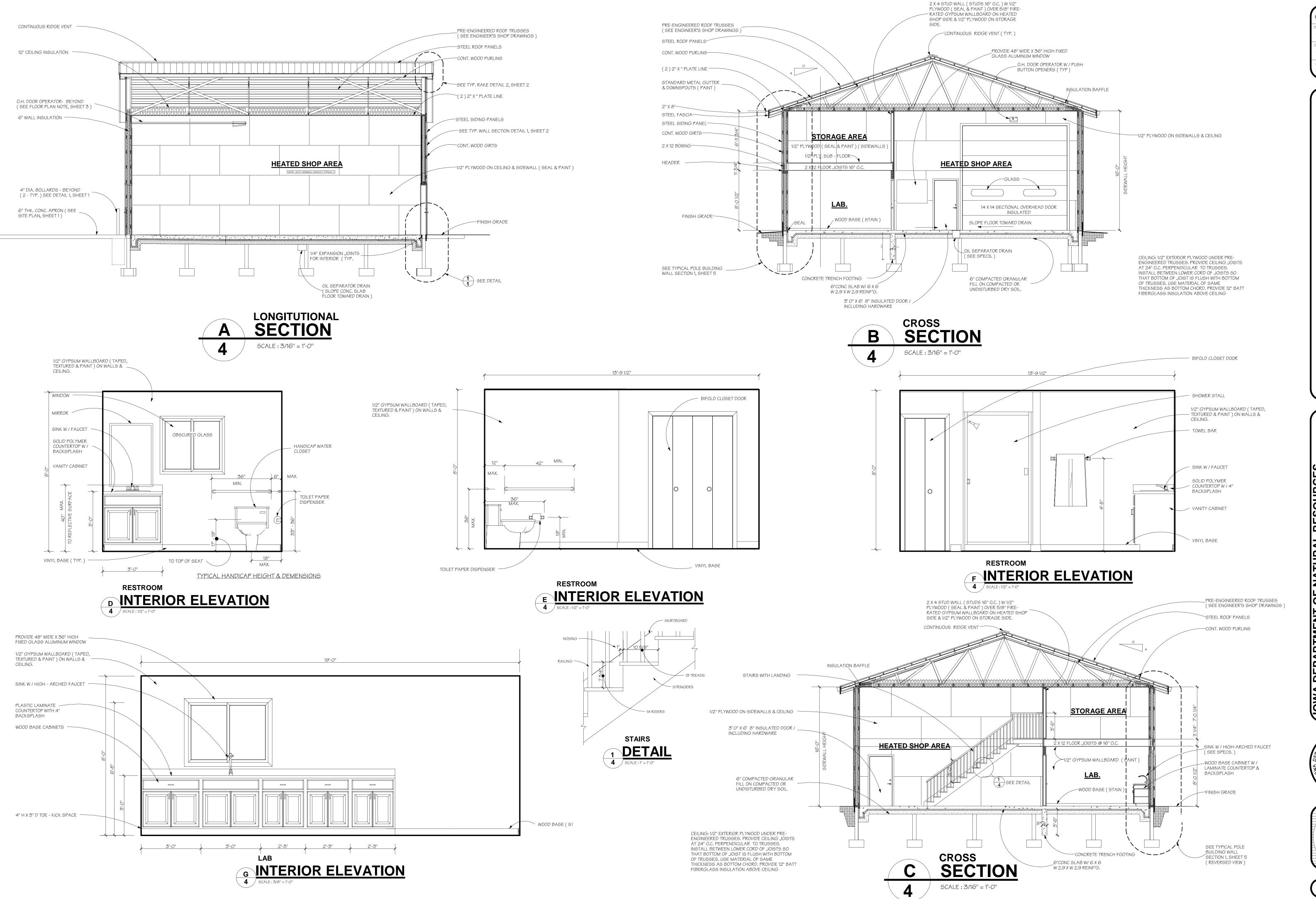




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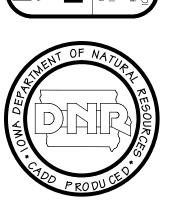


R. NEWELL ESIGNED BY r. AMICE HECKED BY r. AMICE 07/01/08 ACT. CODE NO. PROJECT NO.

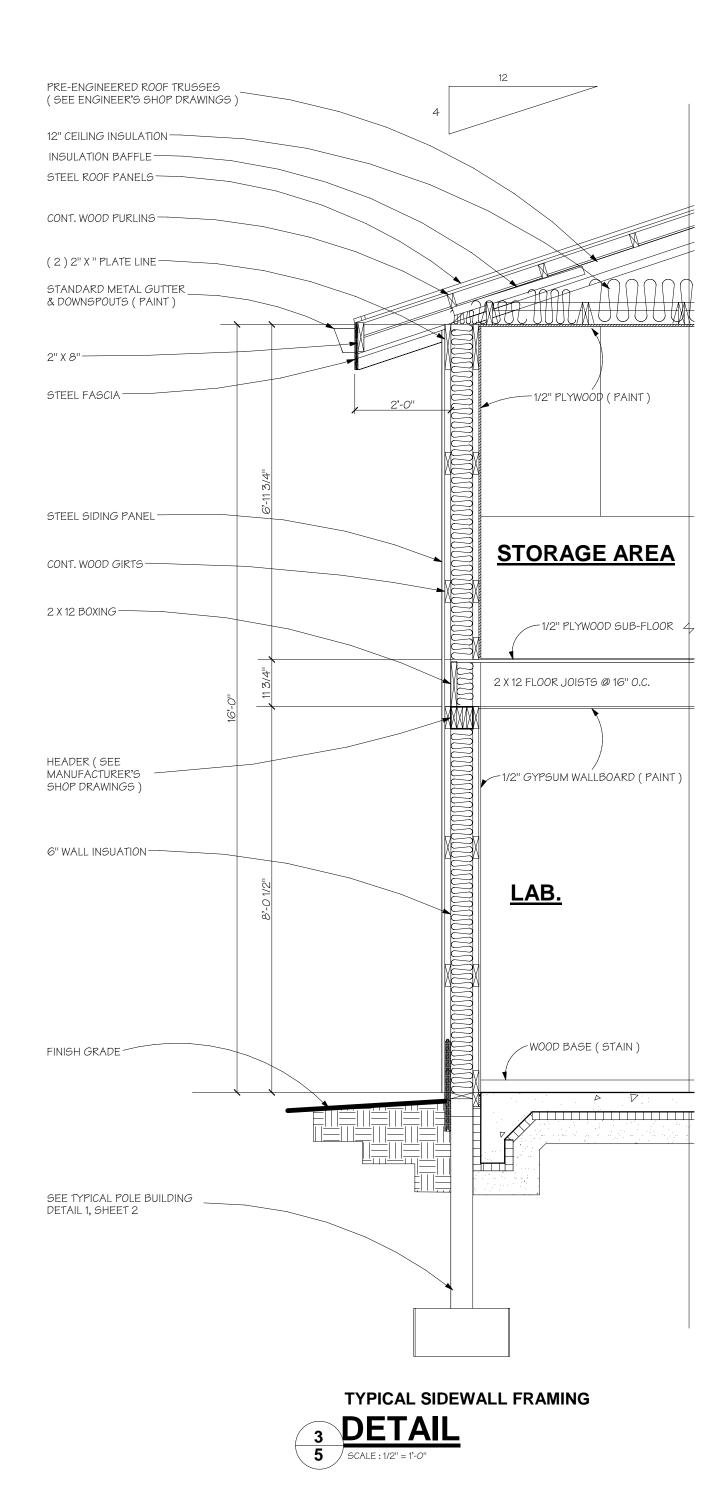
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SSOURI RIVER FISHERIES OP BUILDING NONA COUNTY, IOWA RIOR ELEVATIONS & SECTIONS

NT OF NATURAL RESOUR OFFICE BUILDING A 50319-0034







PLUMBING NOTES

PROVIDE WATER AND SEWER SERVICES AS SHOWN ON SITE PLANS AND AS SPECIFIED IN APPROPRIATE SECTIONS OF THE PROJECT MANUAL FOR A COMPLETE AND PROPER INSTALLATION.

- 2. NO PLUMBING PLANS OF EITHER WASTE OR WATER INSIDE OF THE BUILDING ARE PROVIDED. ONLY LOCATIONS AND TYPES OF FIXTURES HAVE BEEN SHOWN AND/OR LOCATED THROUGHOUT THE DRAWINGS. USE BOTH THE ELECTRICAL PLAN, THE FLOOR PLAN AND THE PROJECT MANUAL TO LOCATE FIXTURES, DRAINS AND OTHER ANY OTHER PLUMBING SPECIALTIES. DO NOT SOLELY RELY ON THE MECHANICAL/ELECTRICAL DRAWING SHEET.
- 3. CONTRACTOR TO LAYOUT SYSTEMS IN ACCORDANCE WITH PROPER PRACTICES AND THE IOWA PLUMBING CODE. THE ACTUAL SIZE AND LOCATION IS TO BE DETERMINED BY THE CONTRACTOR SUBJECT TO APPROVAL OF THE DNR CONSTRUCTION INSPECTOR.

UNDERFLOOR HEATING NOTES:

PROVIDE DESIGN AND INSTALLATION OF AN UNDERFLOOR RADIANT SYSTEM AS SPECIFIED, BUT NOT SHOWN ON THE DRAWINGS, FOR THE HEATED SHOP AREA, LAB, MECHANICAL ROOM, AND RESTROOM. PROVIDE FOR A COMPLETE AND PROPER DESIGN AND INSTALLATION. THE SYSTEM IS EXPECTED TO BE SOURCED BY GEOTHERMAL (SEE NOTE BELOW) AND INDEPENDENT FROM THE AIR CONDITIONING.

2. PROVIDE DESIGN DRAWINGS OF COMPLETE SYSTEM TO THE ARCHITECT FOR REVIEW AND APPROVAL.

GEOTHERMAL NOTES:

1. THE SUGGESTED LOCATION OF THE BORE FIELD HAS BEEN SHOWN ON THE SITE PLANS. IT IS INTENDED FOR THE CONTRACTOR TO CALCULATE THE ACTUAL SIZE, NUMBER OF WELLS, TYPE OF SYSTEM... FROM THE DESIGN INFORMATION OF THE UNDERFLOOR HEATING SYSTEM.

2. PROVIDE DESIGN DRAWINGS AND CALCULATIONS OF COMPLETE SYSTEM TO THE ARCHITECT FOR REVIEW AND APPROVAL.

AIR CONDITIONING NOTES:

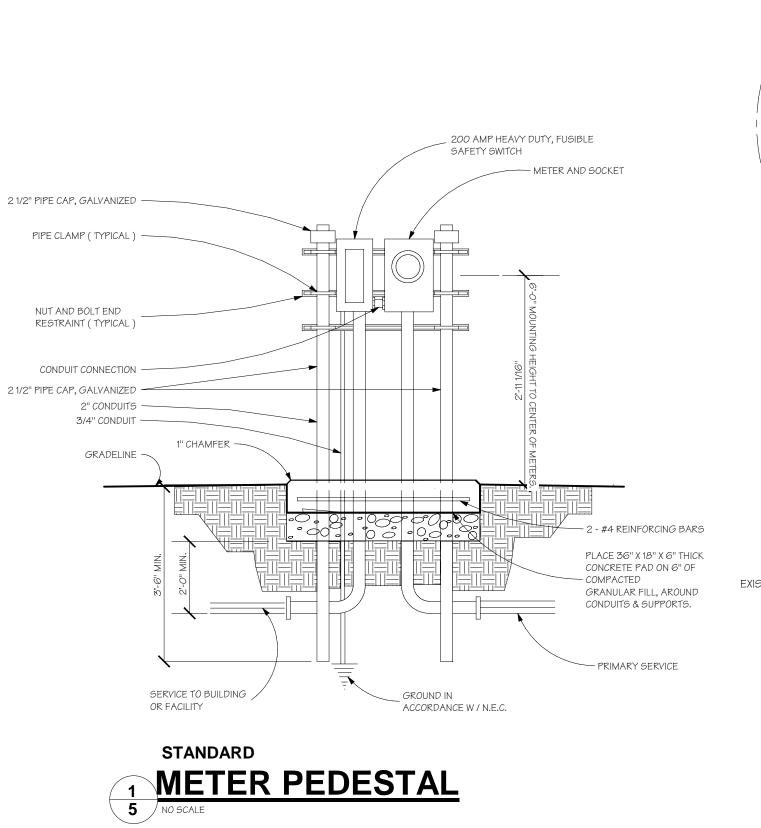
PROPERLY SIZE AND INSTALL A DUCTLESS AIR CONDITIONING SYSTEM, INDEPENDENT OF THE HEATING SYSTEM, AS SHOWN AND AS SPECIFIED.

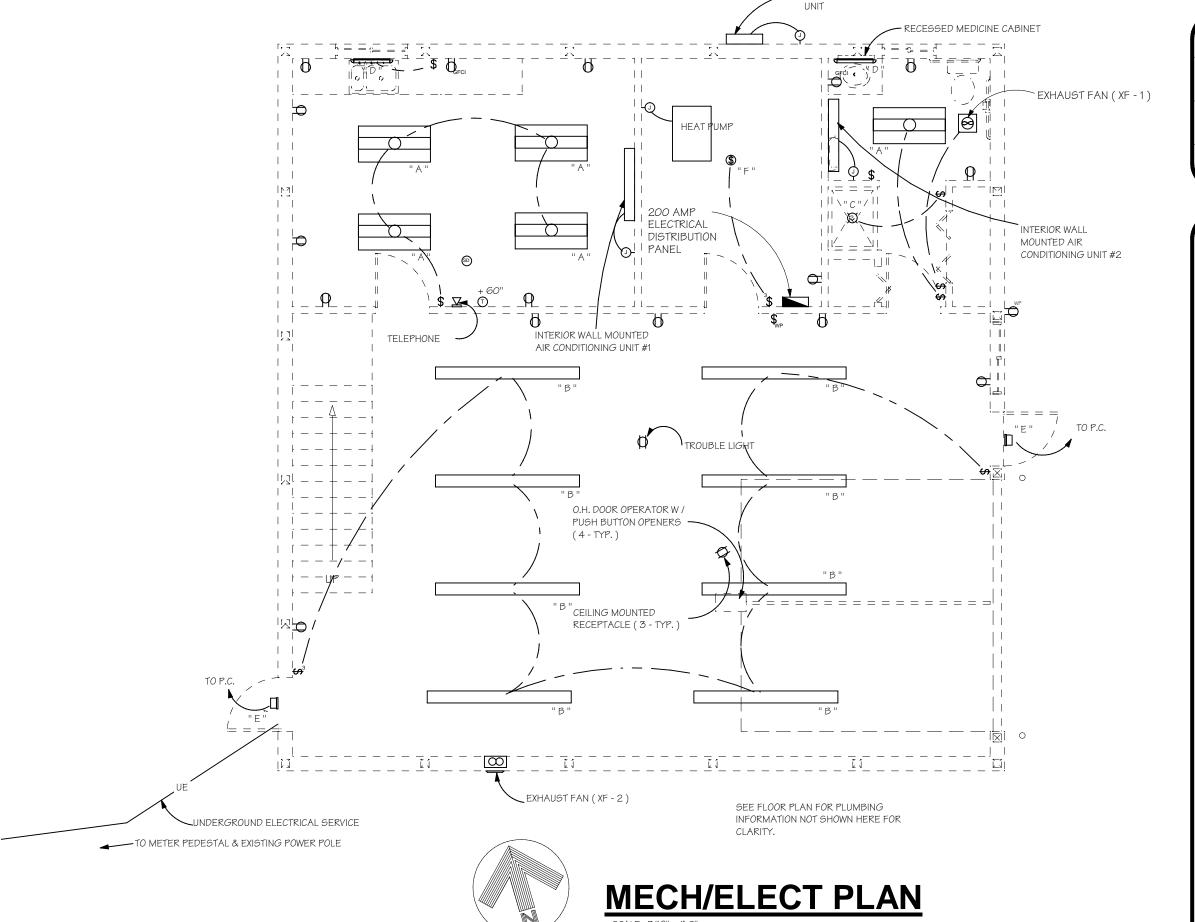
2. PROVIDE SUBMITTALS OF SELECTED PRODUCTS FOR REVIEW AND APPROVAL.

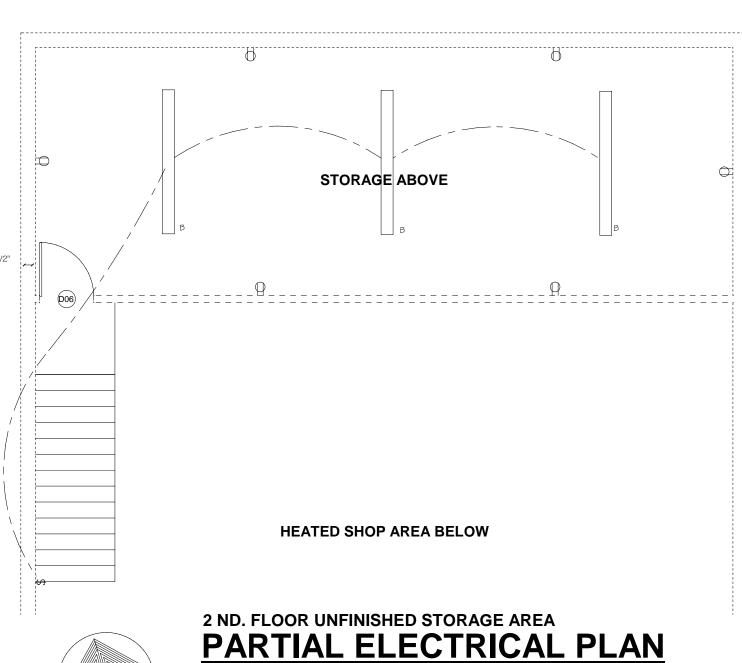
ELECTRICAL NOTES

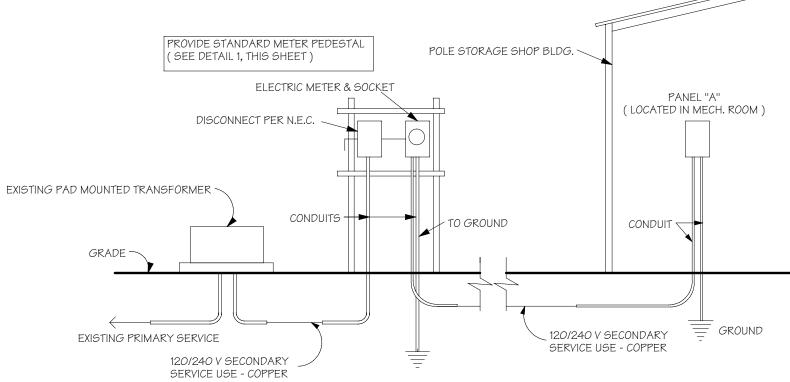
- ELECTRICAL CONTRACTOR TO CALCULATE AND PROVIDE ELECTRICAL CALCULATION, PANEL SIZE, AND SCHEDULE TO DETERMINE SERVICE SIZE. COORDINATE WITH MECHANICAL CONTRACTOR(S) FOR ANY ADDITIONAL POWER REQUIREMENTS THAT WILL AFFECT THE SYSTEM
- 2. ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENT OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE NEC.
- 3. PROVIDE GROUND FAULT INTERRUPTERS ON EACH INDIVIDUAL OUTLET AS SHOWN.
- 4. ELECTRIC METER & SOCKET LOCATION TO BE DETERMINED BY ELECTRICAL CONTRACTOR AND APPROVED BY DNR CONSTRUCTION INSPECTOR.
- 5. ALL INTERIOR WIRING SHALL BE COPPER TYPE THW IN RIGID STEEL CONDUIT.
- 6. VERIFY WITH THE DNR CONSTRUCTION INSPECTOR WHICH EXTERIOR FIXTURES WILL BE CONTROLLED BY PHOTOCELLS. IT IS EXPECTED THAT ONE CELL WILL CONTROL ALL FIXTURE REQUIRING SUCH CONTROL AND THAT THESE WILL BE ABLE TO BE OVERRIDDEN BY A SINGLE SWITCH.
- 7. PROVIDE ANY ADDITIONAL MATERIAL OR EQUIPMENT REQUIRED FOR THE DESIGN AND INSTALLATION OF HEATING AND COOLING AND NOT SHOWN HEREIN.

LIGHTING FIXTURE SCHEDULE								ELECT. SYMBOLS	
CVARO	MANUFACTURER MODEL NO.			VOLTAGE	MOUNTING		Ε□	WALL FIXTURE. LETTER INDICATES FIXTURE TYPE	
SYMB0L			LAMPS			NOTES	A	FLOURESCENT LIGHTING FIXTURE. LETTER INDICATES FIXTURE TYPE.	
Α	LITHONIA -25P8 - G - 32 - FW - A12 - 120 - LP		32WT8	120	IN GR	ID	A		
В	LITHONIA - L - 2 - 96 - 120 - E5		75W SLIMLINE	120	SURF	ACE		TECONECOCIN EIGHT TO TWICKE EET EIN THOU THE TWICKE THE	
С	JUNO - IC22 / 250 WH		60W	120	RECES	SED MOUNT IN SHOWER STALL	R " C "	RECESSED LIGHT FIXTURE, LETTER INDICATES FIXTURE TYPE.	
D	AMERICAN FLUORESCENT 26" CLOUD VANITYVEPI	V220E8	2-T8	120	WALL	MOUNT ABOVE MED. CABINET & LAB. SINK WINDOW.	, -	CONDUIT RUN CONCEALED IN CEILING.	
E	KENALL -H69EL - C - DB - 120		(1)13W	120	WALL	MNTG. HEIGHT +10'-0" A.F.F.	\Rightarrow	DUPLEX RECEPTACLE. NEMA 5-20P. 12" MOUNTING HEIGHT OR AS NOTED	
F	PORCELAIN RECEPTACLE - P & S - 288	1:	2W FLOURESCENT	120	SURF	ACE	G F.I.	GROUND FAULT INTERRUPT DUPLEX OUTLET	
G	LITHONIA - EJD - 2 - 96HO - 120 - CW20		96H0 110W T12	120	SUSP	-20 LOW TEMP. BALLAST	s — s ³ — s ⁴	SWITCHES-SINGLE POLE-THREE WAY-FOUR WAY	
							<u></u>	JUNCTION BOX	
							D _{+60"}	THERMOSTAT, MOUNTING HEIGHT INDICATED.	
								TELEPHONE OUTLET, WALL TYPE.	
								PANELBOARD. LIGHTING & APPLIANCE BRANCH CIRCUIT.	
PROVIDE LAMPS - REPLACE INCANDESCENT BULB WITH EQUIVALENT ENERGY SAVING COMPACT FLOURSCENT LAMPS.								PULL CHAIN FIXTURE	
EXHAUST FAN SCHEDULE								CEILING MOUNTED OUTLET	
	TAUST FAIN SCH	c5 📐	COMPUTER NETWORK OUTLET						
		SI	ELECTRIC/	AL DATA	RPM		w p. €	WATERPROOF DUPLEX OUTLET	
MARK	PURPOSE & TYPE CF	M IN. V		VOLTS	KPM	REMARKS	\Box	TROUBLE LIGHT OUTLET	
XF-1	TOILET ROOM EXHAUST NUTONE-MODEL QT 160 17	0		120			Θ	EXHAUST FAN	
	GARAGE EXHAUST, SINGLE PHASE, 60 CYCLE 2534 1635	-74	125 1/3		T)	TWO- SPEED MOTOR & SWITCH, & DISCHARGE SIDE FAN GUARDS. GRAVITY SHUTTER W / MOTOR OPERATED KIT FOR POSITIVE BLADE		GARAGE EXHAUST FAN	
		- ' 12		120 172	1725 5		SD	SMOKE DETECTOR	
					I	OTOR OPERATED RIT FOR POSITIVE BLADE OSURE.	WP \$	GARAGE OPERATOR KEYPAD	
							P.C.	PHOTOCELL CONTROL	
							1 .0.	THOTOCLEE CONTROL	

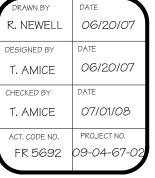








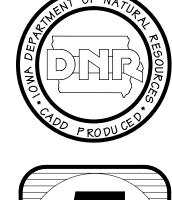






MALLACE STATE OFFICE BUILDING
WALLACE STATE OFFICE BUILDING
DES MOINES, IOWA 50319-0034

OWNERSHIP OF DOCUMENT AND THE IDEAS AND DESIGN INCORPORATED HEREIN AS AN INSTRUMENT OF PROFESSIONAL SERVICE IS THE PROPERTY OF THE IOWA DEPARTMENT OF MATURAL RESOURCES AND INSTRUMENT OF BUSED, IN WHOLE OR IN PART FOR ANY OTHER PROJECT WITHOUT WRITTEN AUTHORIZATION OF THE REPROPERTY OF BY THE CONSTRUCTION SERVICE IS REALD AND INFORMATION OF THE REPROPERTY OF BY THE CONSTRUCTION SERVICE IS REALD OF THE





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