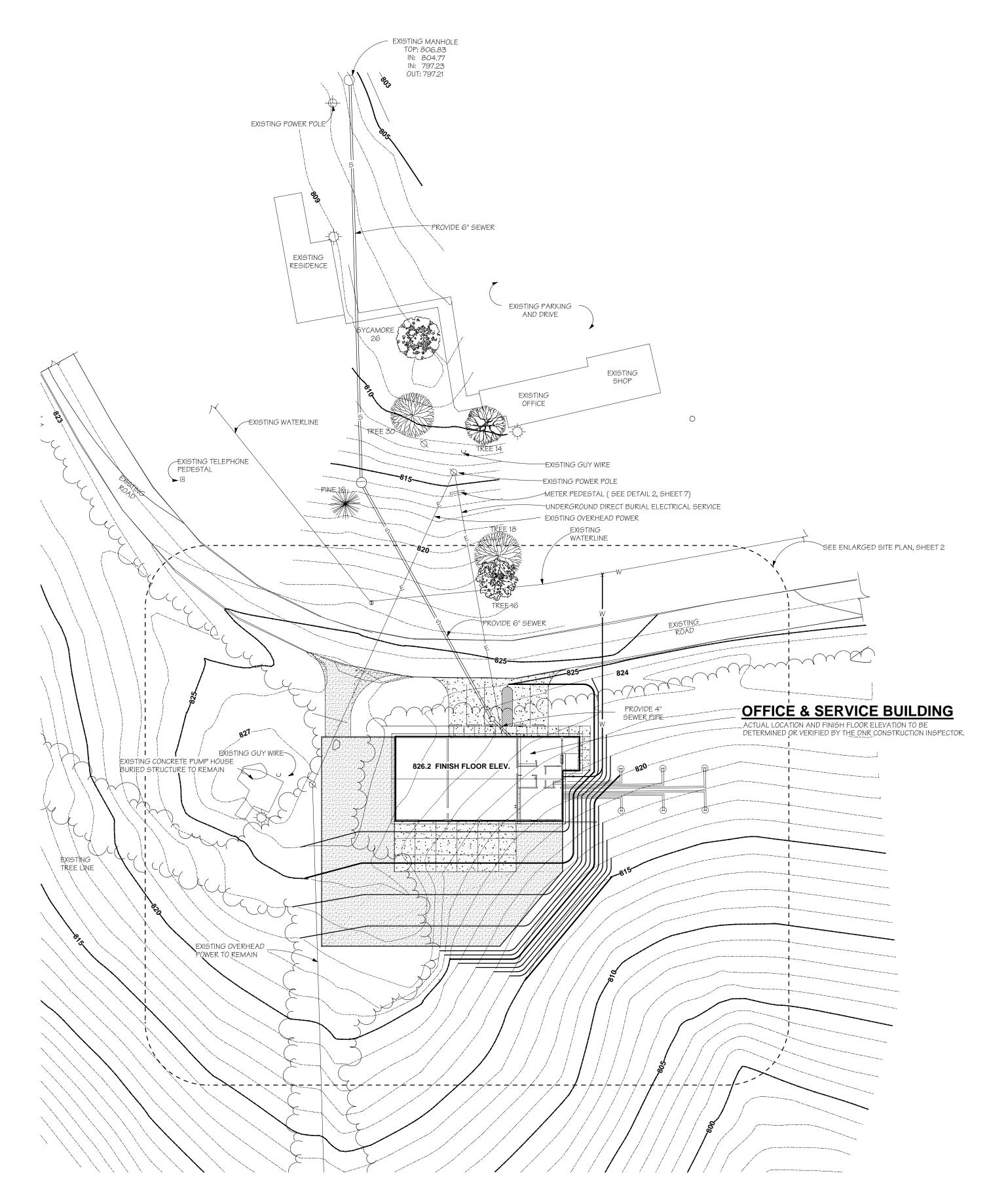
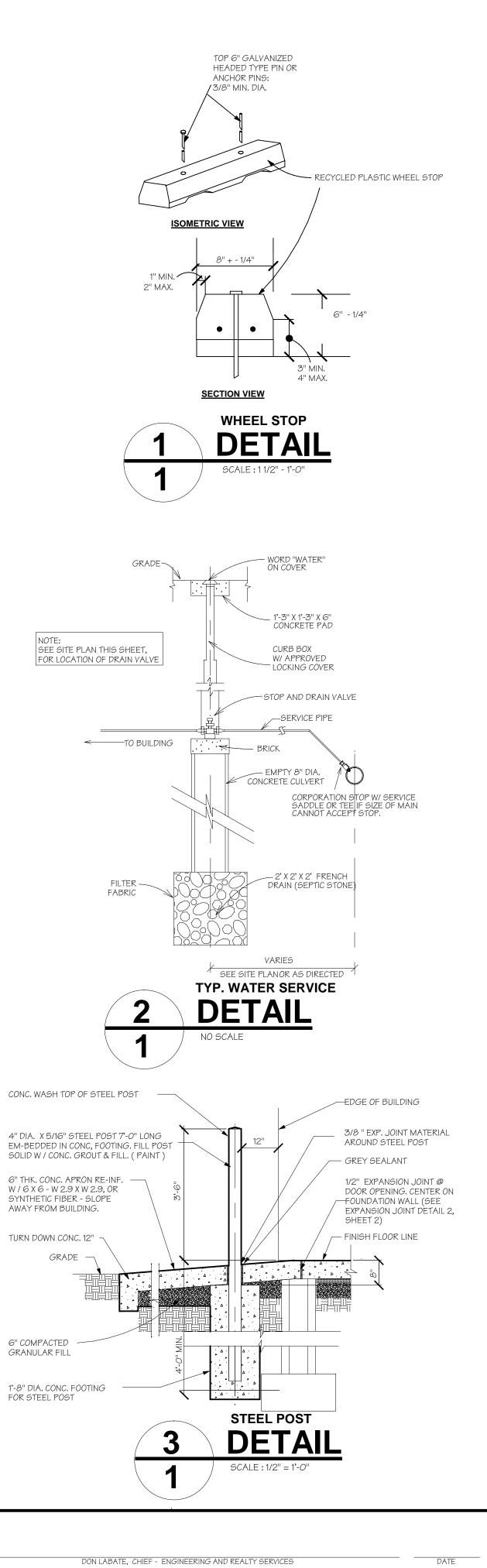
LAKE KEOMAH STATE PARK OFFICE & SERVICE BUILDING MAHASKA COUNTY, IOWA PROJ. # 08-05-62-01

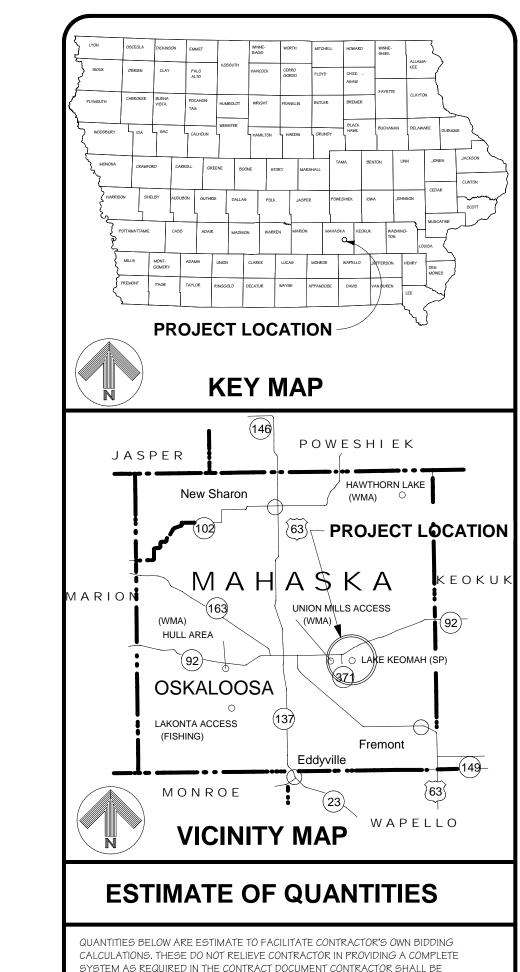






KEN HERRING, ADMINISTRATOR - CONSERVATION AND RECREATION DIVISION

LIZ CHRISTIANSEN, DEPUTY DIRECTOR - DEPARTMENT OF NATURAL RESOURCES



T. AMICE

PA 5722 08-05-62

QUANTITIES BELOW ARE ESTIMATE TO FACILITATE CONTRACTOR'S OWN BIDDING 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 QUANTITIES.

EARTHWORK	LUMP SUM	
SITE RESTORATION	LUMP SUM	
6" COMPACTED CRUSHED STONE PAVING	192 TONS	
6" CONCRETE APRONS & SIDEWALK	3,014 SQ. FT.	
CHAIN LINK FENCE W / GATE	300 L.F.	
OFFICE & SERVICE BUILDING	3,328 SQ. F1	
UNDERFLOOR RADIANT HEATING	LUMP SUM	
DUCTLESS AIR CONDITIONING	LUMP SUM LUMP SUM.	
GEOTHERMAL		
BUILDING ELECTRICAL	LUMP SUM	
SEWER LINE	320 L.F.	
MANHOLES	2 EA.	
WATER SERVICE	100 L.F.	
ELECTRICAL SERVICE	140 L.F.	

DRAWING INDEX

TITLE	SHEET NO.
COVER SHEET, SITE PLAN & SITE DETAILS	1
ENLARGED SITE PLAN & SITE DETAILS	2
POLE BUILDING PLANS DETAILS & SECTIONS	3
FLOOR PLAN, SCHEDULES & DETAILS	4
ELEVATIONS & SECTIONS	5
DETAILS, SECTIONS & CAB. INT. ELEV.	6
ELECTRICAL/MECHANICAL	7
CHAIN LINK FENCE & GATE	8

GENERAL NOTES:

CONSTRUCT ENTIRE PROJECT IN ACCORDANCE WITH STATE BUILDING CODE ANSI 117.1 AND THE AMERICAN WITH DISABILITY ACT ACCESSIBILITY GUIDLINES FOR BUILDINGS

2. 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 THE BUILDING.

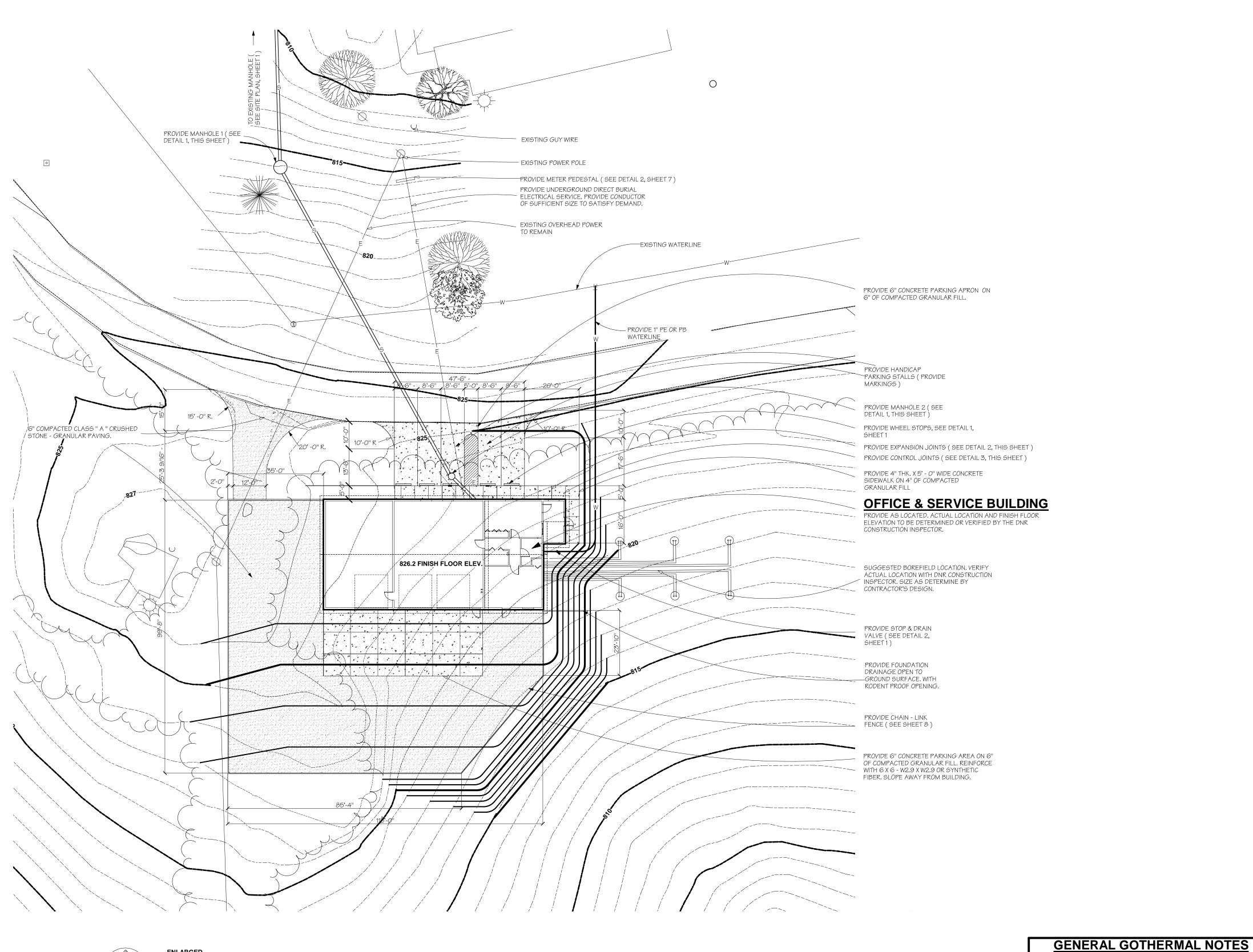
ABS & SIDEWALKS PAVING:

PROVIDE 3/4" EXPANSION JOINTS WHERE WALKS MEET OTHER WALKS, CURBS, SLABS AND AT EVERY 45' INTERVALS.

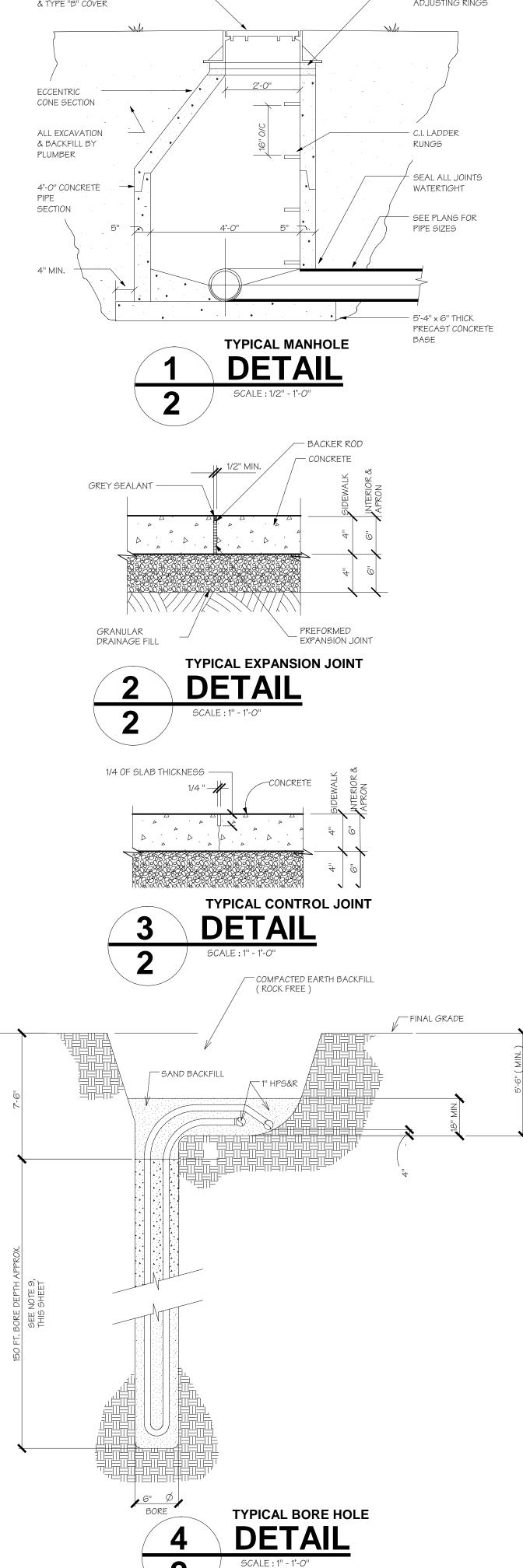
PROVIDE 1/8" WIDE BY 1/4" CONTROL JOINT EVERY 5'-0" INTERVAL OR AS SHOWN.



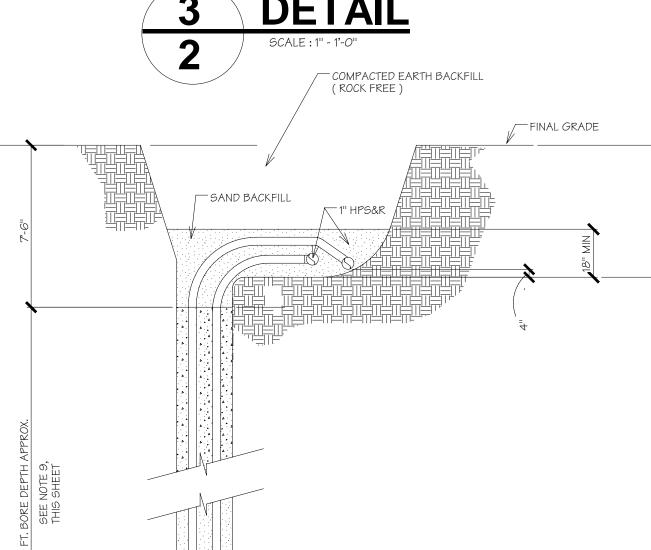
SHEET 1 OF 8







- ADJUST FRAME AS REQUIRED NEENAH FOUNDRY #R-1660 FRAME USING CONCRETE ADJUSTING RINGS & TYPE "B" COVER



PROVIDE LINK - SEAL AT ALL PIPES PENETRATING A WALL OR FOUNDATION.

. FIELD VERIFY LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.

VERTICAL BORE HOLES SHALL BE A MINIMUM OF 10 FT. FROM SEWERS

4. LOOP FIELD CONTRACTOR SHALL COORDINATE LOOP FIELD INSTALLATION WITH BUILDING CONTRACTOR. CONTRACTORS TO COORDINATE UTILITY

6. INSTALL ALL LOOP FIELD PIPING WITH UNIFORM SLOPE TO AVOID AIR

6 FOUR INCH DIAMETER WELLS SPACED 20" - 0" APART.

9. SEE ADDITIONAL NOTES ON SHEET 8 MECHANICAL/ELECTRICAL

GROUND - COUPLED HEAT PUMP WELL FIELD

RESTORE ALL GRADES TO CONDITIONS EXISTING PRIOR TO COMMENCING OF WORK, GROUT AND BACKFILL BORE HOLES SAME DAY AS DRILLED. DO NOT LEAVE ANY BORE HOLE OPEN OVERNIGHT OR WHEN SITE IN UNATTENDED.

WELL SIZE AND DEPTH TO BE DETERMINED BY THE GEOTHERMAL DESIGN - BUILD CONTRACTOR AFTER THE SOIL CONDUCTIVITY TESTS HAVE

PER STATE CODE.

BEEN PERFORMED.

LOCATION AND INSTALLATION.

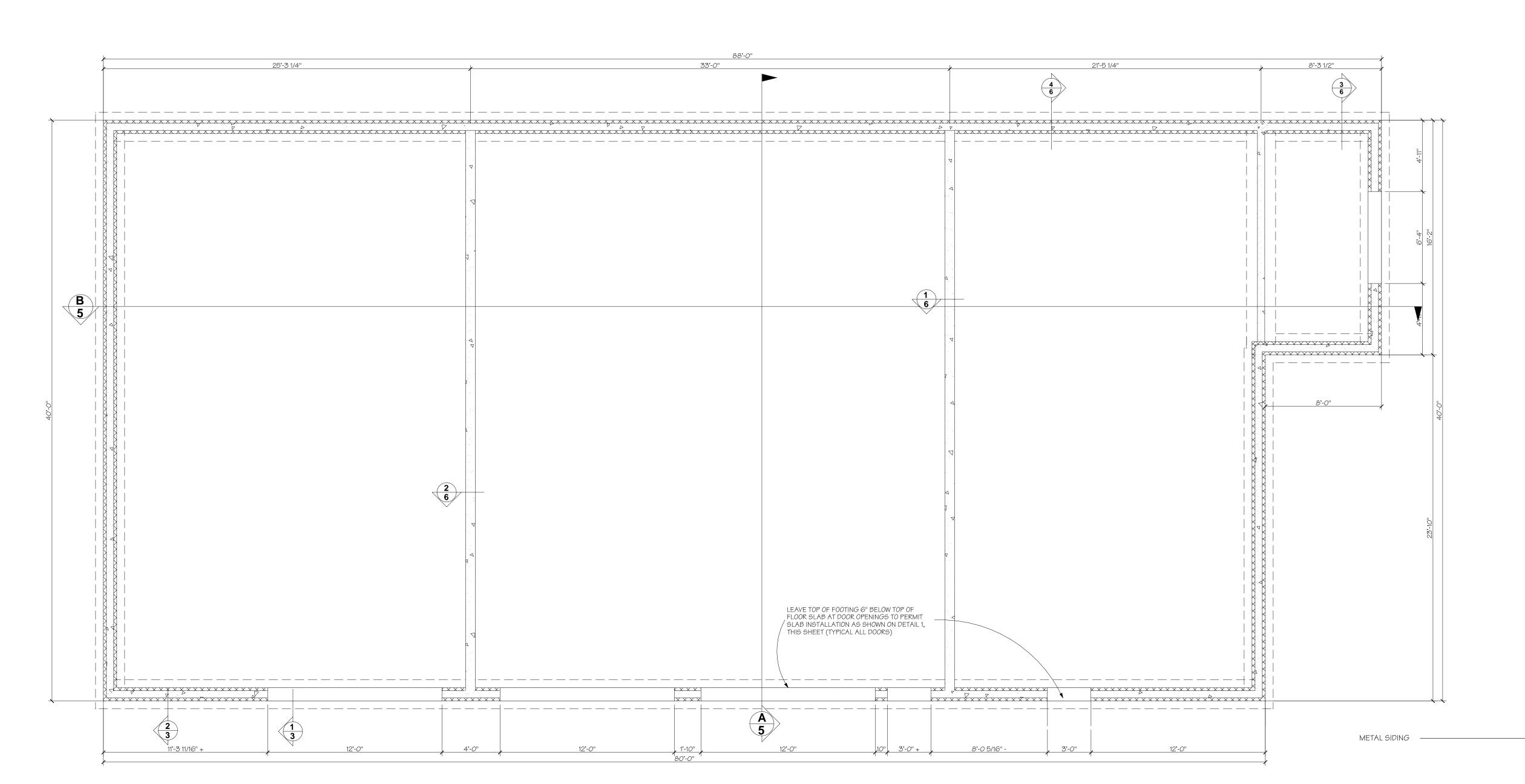
R. NEWELL 08/28/0

Г. AMICE 03/06/0

T. AMICE | 03/06/08 ACT. CODE NO. PROJECT NO. PA 5722 08-05-62-0

HECKED BY





CONCRETE NOTES:

- 1. CONCRETE SLABS, APRONS, & WALKS MINIMUM 28 DAYS STRENGTH 4000 PSI.
- CONCRETE FOOTING & FOUNDATION WALLS MINIMUM 28 DAYS STRENGTH 3000 PSI.
- DO NOT PLACE CONCRETE WHEN TEMPERATURE IS EXPECTED TO FALL BELOW 40 DEGREES F. UNLESS APPROVED BY THE DNR CONSTRUCTION INSPECTOR.
- 4. 6" THICK CONC. INTERIOR SLAB REINF'D WITH 6 X 6 W2.9 X W2.9
 OR SUITABLE SYNTHETIC FIBER REINFORCEMENT ON 6" COMPACTED
 GRANULAR FILL. PITCH FLOOR TO DRAIN. SEAL SURFACE WITH CONC. SEALER. STEEL TROWEL FINISH.

DIMENSION NOTE:

UNLESS OTHERWISE INDICATE, THE BUILDING DIMENSIONS ARE FROM OUTSIDE TO OUTSIDE OF ICF FOUNDATION WALL SYSTEM AND OUTSIDE TO OUTSIDE OF OF WALL SHEATING ABOVE.

THE OUTSIDE EDGE OF THE ICF FORM ALIGN WITH THE OUTSIDE EDGE OF

INSIDE DIMENSIONS ARE FROM FINISHED WALLS TO FINISHED WALLS

- 2x6 TOP SILL PLATE ON SILL SEAL. PROVIDE ANCHOR BOLTS @ 24" O.C.

CONCRETE FLOOR

VERTICAL DOWEL #4 REBAR @ 24" O.C.

— 2 #5 REBAR (CONTINUOUS)

- EXPANSION JOINT

2 DETAIL SECTION

. AMICE

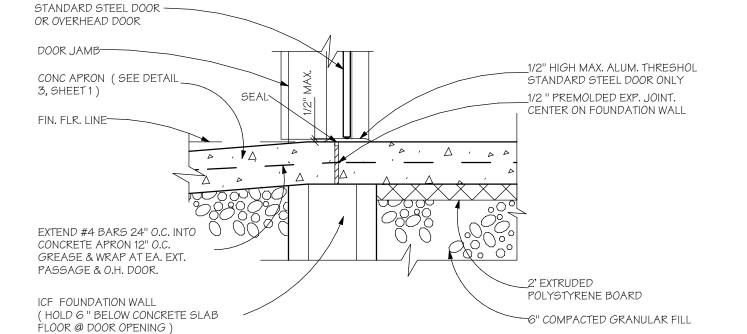
T. AMICE

SHEET 3 OF 8

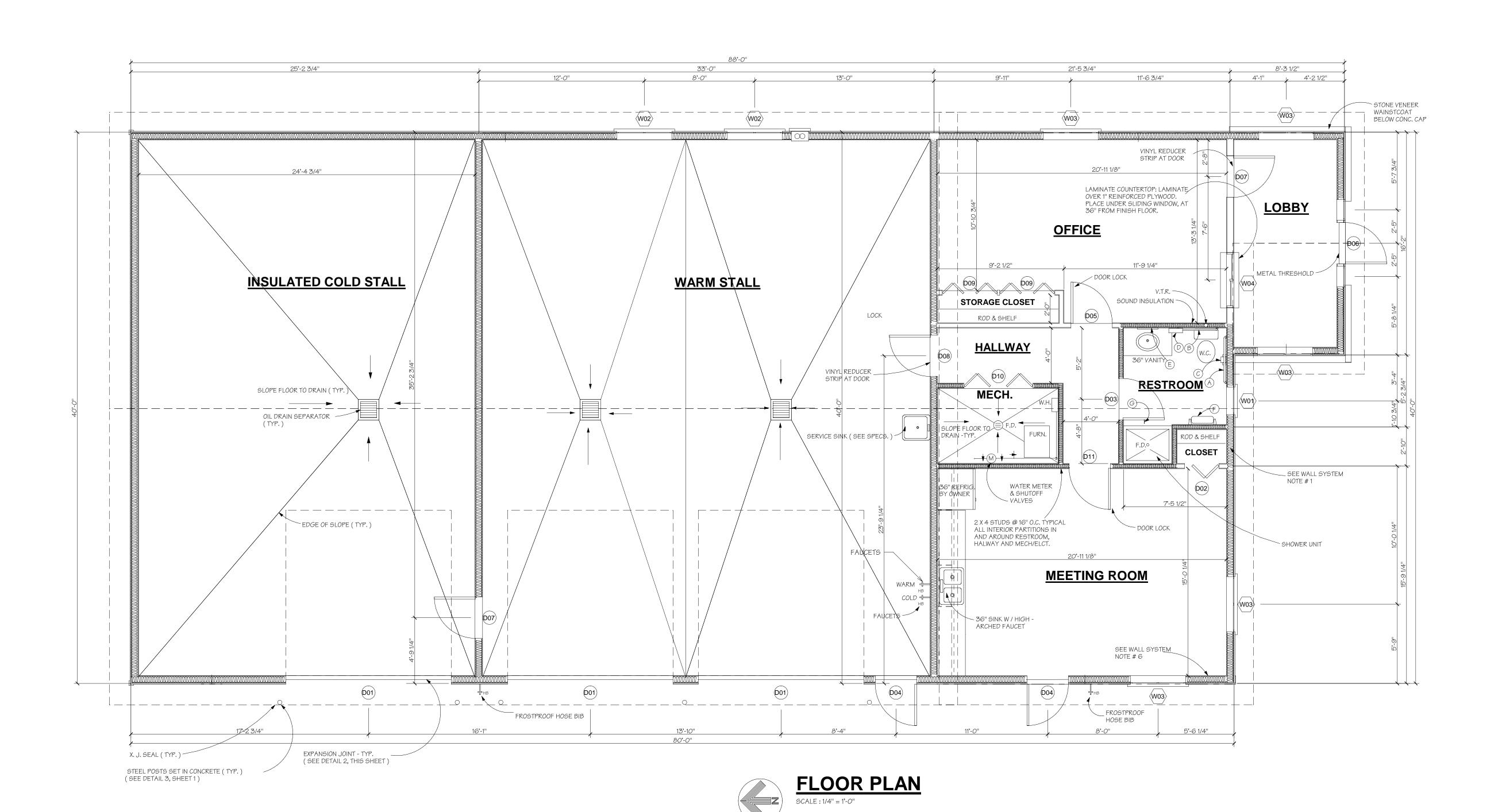


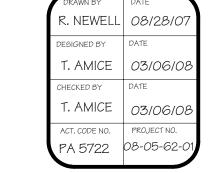
CONTINUOUS FOOTING

UNDISTURBED SOIL



DETAIL SECTION





EOMAH STATE PARK & SERVICE BUILDING SKA COUNTY, IOWA PLAN, SCHEDULES & DETAILS

DEPARTMENT OF NATURAL RESOURCE ACE STATE OFFICE BUILDING OINES, IOWA 50319-0034

DIMENSION NOTE:

UNLESS OTHERWISE INDICATE, THE BUILDING DIMENSIONS ARE FROM OUTSIDE TO OUTSIDE OF ICF FOUNDATION WALL SYSTEM AND OUTSIDE TO OUTSIDE OF OF WALL SHEATING ABOVE.

THE OUTSIDE EDGE OF THE ICF FORM ALIGN WITH THE OUTSIDE EDGE OF SHEATING.

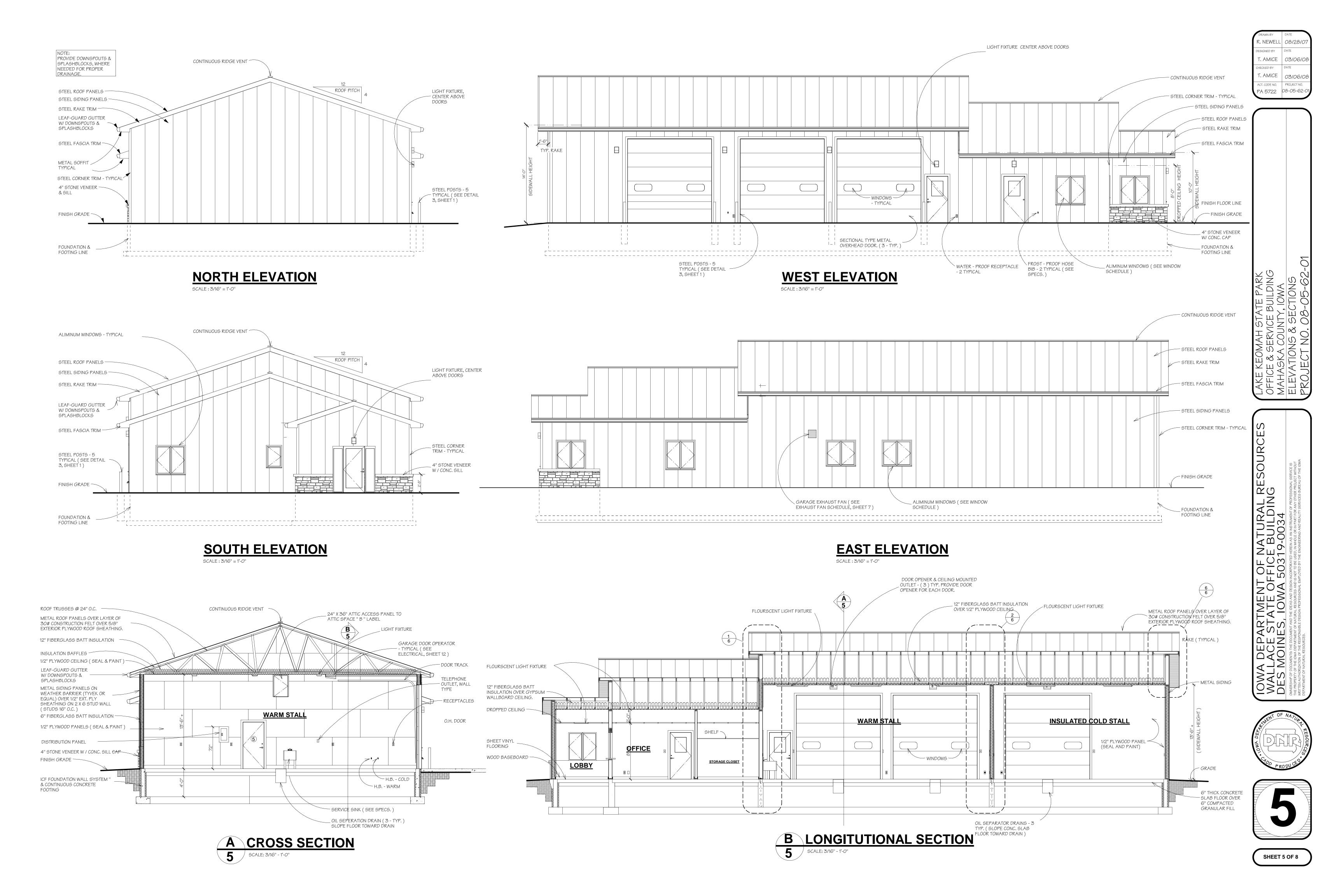
INSIDE DIMENSIONS ARE FROM FINISHED WALLS TO FINISHED WALLS

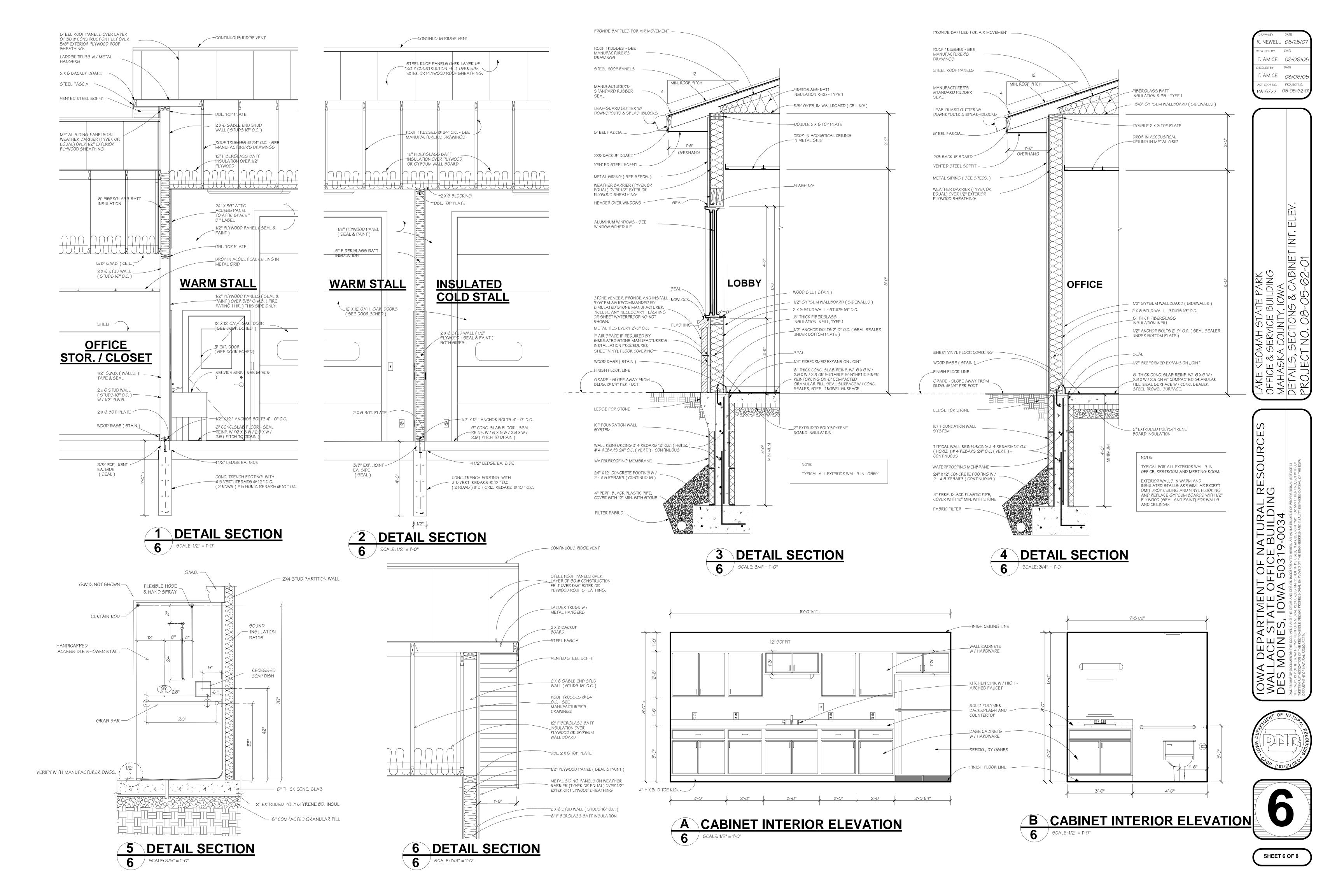
PAINT	FLUSH (METAL- PAINT, WOOD - STAIN) WOOD FLUSH WINDOW APPROX. 20" X 26"	WOOD LOUVERED BI-FOLD DOOR	GLASS ENCLOSED ALUMINUM SIDELITES GLASS ENCLOSED ALUMINUM DOORS
WINDOWS	STAIN & SEAL	STAIN & SEAL	
TYPE A SECTIONAL TY METAL OVERH		TYPE D PES	TYPE F ALUMINUM STOREFRONT DOORS & FRAMES
	4 NO SCALE		

WINDOW SCHEDULE	ROOM FINISH SCHEDULE		DOOR SCHEDULE	TOILET ACCESSORIES		
WINDOW SCHEDULE SER QTY SIZE DIMENSIONS DESCRIPTION COMMENTS 1 2030SC 24"X36"SC SINGLE CASEMENT - ALUM 2 4036DC 48"X42"DC DBL CASEMENT-LHL/RHR - METAL ALUMINUM 5 4040DC 48"X48"DC DBL CASEMENT-LHL/RHR - METAL ALUMINUM 1 4040RS 48"X48"RS SLIDER - METAL ALUMINUM	ROOM NAME FLOOR BASE ANNYL SEAL ANNYL SW.B. CONC. SW.B. CONC. ANNYL SW.B. CONC. CO	WALL CEILING REMARKS PROVIDE GYPSUM WALLBOARD WALLS & CEILING WITH SPRAY TEXTURED TREATMENT AND PAINT SEAL AND PAINT PLYWOOD PROVIDE ACCOUSTICAL DROP CEILING BELOW GYPSUM CEILING	NUMBER QTY SIZE WIDTH HEIGHT DESCRIPTION THICKNESS COMMENTS DO1 3 120120 144 " 144 " STEEL SECTIONAL OVERHEAD DOOR - TYPE A 1 3/4 HARWARE SET 106 DO2 1 2668 30 " 80 " WOOD DOOR & FRAME, BIFOLD - TYPE D 1 3/4 HARDWARE SET 105 DO3 1 3068 36 " 80 " WOOD DOOR & FRAME - TYPE C 1 3/4 HARDWARE SET 104 - 24" X 16" SIGHTPROOF METAL LOUVER DO4 1 3068 36 " 80 " ALUMINUM STOREFRONT - TYPE F 1 3/4 HARDWARE SET 102 - FIRE RATED DO5 1 3068 36 " 80 " METAL DOOR & FRAME - TYPE D 1 3/8 HARDWARE SET 105 DO7 1 5068 30 " 80 " WOOD DOOR & FRAME, BIFOLD - TYPE D 1 3/8 HARDWARE SET 105 DO8 2 3068 36 " 80 " WOOD DOOR & FRAME, BIFOLD - TYPE D 1 3/4 HARDWARE SET 105 DO9 2 3068 36 " 80 " METAL DOR & FRAME - TYPE B 1 3/4 HARDWARE SET 105 DO9 2 3068 36 " 80 " WOOD DOOR & FRAME - TYPE B 1 3/4 HARDWARE SET 102 DO9 1 3068 36 " 80 " ALUMINUM STOREFRONT - TYPE B 1 3/4 HARDWARE SET 102 DO9 1 3068 36 " 80 " ALUMINUM STOREFRONT - TYPE B 1 3/4 HARDWARE SET 102 DO9 1 3068 36 " 80 " ALUMINUM STOREFRONT - TYPE B 1 3/4 HARDWARE SET 106 - INCLUDE LOCKING DEVICE	LTR. DESCRIPTION A GRAB BAR-CONCEALED MT.	MFR'S. MODEL NO. MT. HGT. ASI 3100 - 1 1/4" TYPE F-42" 36"A.F.F.	REMARKS NON-SLIP FINISH. NON-SLIP FINISH. FREE TURNING SPIND
	WARM STALL • • •					









PLUMBING NOTES

- 1. 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 INSTALL ATION.
- 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:

- 1. PROVIDE DESIGN AND INSTALLATION OF AN UNDERFLOOR RADIANT SYSTEM AS SPECIFIED, BUT NOT SHOWN ON THE DRAWINGS, FOR THE WARM STALL, OFFICE, MEETING ROOM, LOBBY, HALLWAY 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.
- PROVIDE DESIGN DRAWINGS AND CALCULATIONS OF COMPLETE SYSTEM TO THE ARCHITECT

AIR CONDITIONING NOTES:

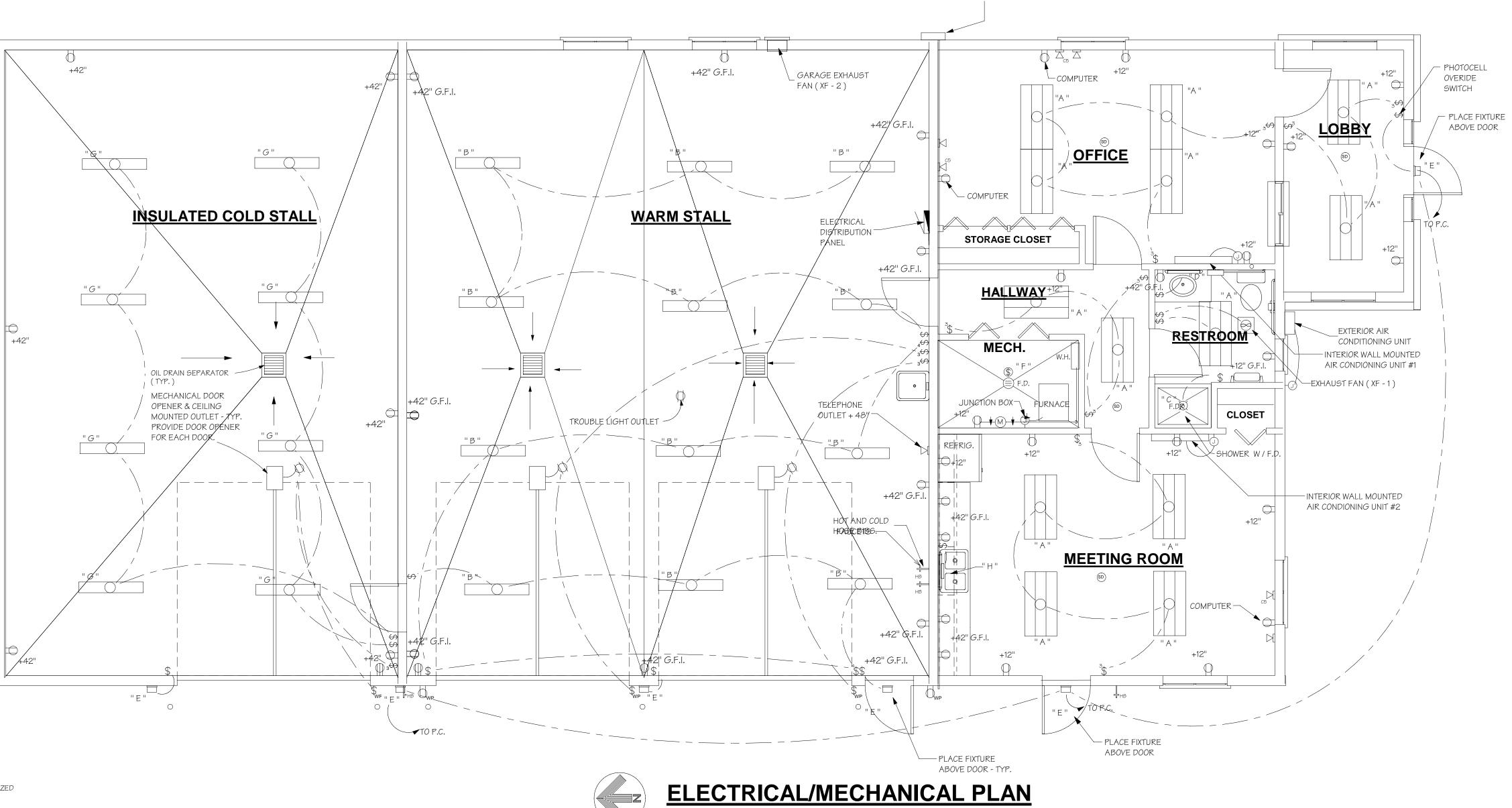
- 1. PROPERLY SIZE AND INSTALL A DUCTLESS AIR CONDITIONING SYSTEM, INDEPENDENT OF THE HEATING SYSTEM, AS SHOWN AND AS SPECIFIED.
- 2. PROVIDE SUBMITTALS OF SELECTED PRODUCTS FOR REVIEW AND APPROVAL.

ELECTRICAL NOTES

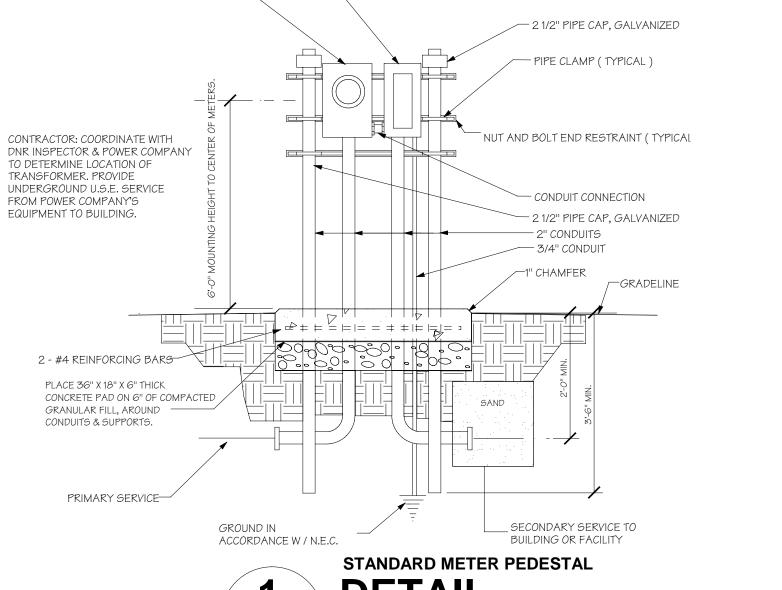
- 1. ELECTRICAL CONTRACTOR TO CALCULATE AND PROVIDE ELECTRICAL CALCULATION, PANEL SIZE, AND SCHEDULE TO DETERMINE SERVICE SIZE. COORDINATE WITH MECHANICAL CONTRACTOR(S) FOR ANY ADDITIONAL POWER REQUIREMENTS THAT WILL AFFECT THE SYSTEM
- 2. ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENT OF THE LATEST 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.

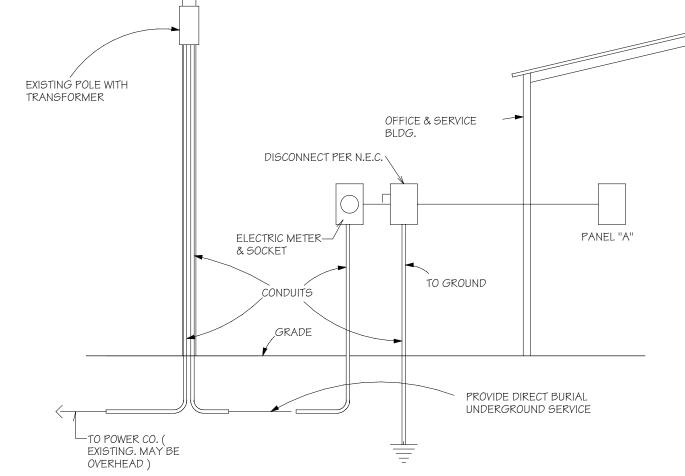
HEAVY DUTY, FUSIBLE SAFETY SWITCH

METER AND SOCKET



ELECTRIC METER







_IG	HTING FIXTURE SC	ELECT. SYMBOLS					
SYMB0L	MANUFACTURER MODEL NO.	LAMPS	VOLTAGE	MOUNTING	NOTES	E 🗆	WALL FIXTURE. LETTER INDICATES FIXTURE TYPE FLOURESCENT LIGHTING FIXTURE. LETTER INDICATES FIXTURE TYPE.
A	LITHONIA -29P8 - G - 32 - FW - A12 - 120 - LP	32WT8	120	IN GRID			FLOURESCENT LIGHTING FIXTURE, LETTER INDICATES FIXTURE TYPE.
В	LITHONIA - L - 2 - 48 - 120 - E9	38W SLIMLINE	120	SURFACE		A	PLOURESCENT LIGHTING FIXTURE, LETTER INDICATES FIXTURE TITE.
C	JUNO - IC22 / 250 WH	60W	120	RECESSED	MOUNT IN SHOWER STALL	(R) " C "	RECESSED LIGHT FIXTURE, LETTER INDICATES FIXTURE TYPE.
D	AMERICAN FLUORESCENT 26" CLOUD VANITYVEPN220E8	2-T8	120	WALL MNT.	MOUNT ABOVE MED. CABINET &	/ .	CONDUIT RUN CONCEALED IN CEILING.
E	KENALL -H69EL - C - DB - 120	(1)13W	120	WALL MNT.	MNT'G. HEIGHT +10'-0" A.F.F.	\Rightarrow	DUPLEX RECEPTACLE. NEMA 5-20P. 12" MOUNTING HEIGHT OR AS NOTE
F	PORCELAIN RECEPTACLE - P & S - 288	12W FLOURESCENT	120	SURFACE		G F.I.	GROUND FAULT INTERRUPT DUPLEX OUTLET
G	LITHONIA - EJDA - 2 - 48H0 - 120 - CW20	48H0 60W T12	120	SUSPEND	-20 LOW TEMP. BALLAST	$s - s^3 - s^4$	SWITCHES-SINGLE POLE-THREE WAY-FOUR WAY
Н	METALUX 24" - 8720R	(1) 20WT12	120	UNDER COUNTE	R	<u> </u>	JUNCTION BOX
			1			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
-VI	LALICT EAN COLLED					Ø	CEILING MOUNTED OUTLET
:Xr	IAUST FAN SCHED	ULE				C5 🔀	COMPUTER NETWORK OUTLET
		GP ELECTRICA	I DATA			wp. 😝	WATERPROOF DUPLEX OUTLET
MARK	PURPOSE & TYPE CFM	SP ELECTRICAL N. WC H.P.	VOLTS	RPM	REMARKS	\bigcirc	TROUBLE LIGHT OUTLET
F-1	TOILET ROOM EXHAUST NUTONE-MODEL QT 160 170		120				EXHAUST FAN
			120	TWO G	PEED MOTOR & SWITCH, & DISCHARGE		GARAGE EXHAUST FAN
XF-2	GARAGE EXHAUST, SINGLE PHASE, 60 CYCLE 2534 1635	125 1/3	120	1725 SIDE FA	AN GUARDS. GRAVITY SHUTTER W /	(SD)	SMOKE DETECTOR
	1035			MOTOR CLOSU	OPERATED KIT FOR POSITIVE BLADE RE.	WP \$	GARAGE OPERATOR KEYPAD
				320001	5.000	P.C.	PHOTOCELL CONTROL

DRAWN BY
R. NEWELL
O8/28/07
DESIGNED BY
T. AMICE
O3/06/08
CHECKED BY
DATE
T. AMICE
O3/06/08
ACT. CODE NO.
PA 5722
O8-05-62-03

ARE REOMAH STATE FAKR
FFICE & SERVICE BUILDING
AHASKA COUNTY, IOWA
LECTRICAL/MECHANICAL

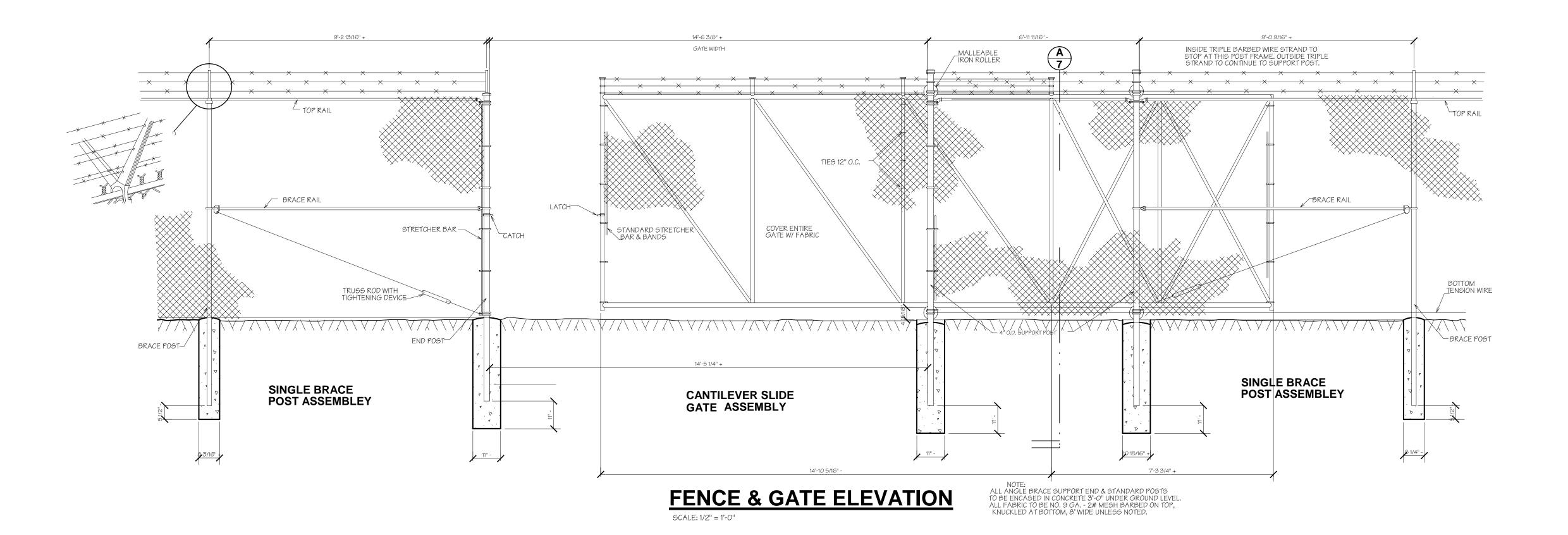
IOWA DEPARTMENT OF NATURAL RESOURCE STATE OFFICE BUILDING
WALLACE STATE OFFICE BUILDING
DES MOINES, IOWA 50319-0034

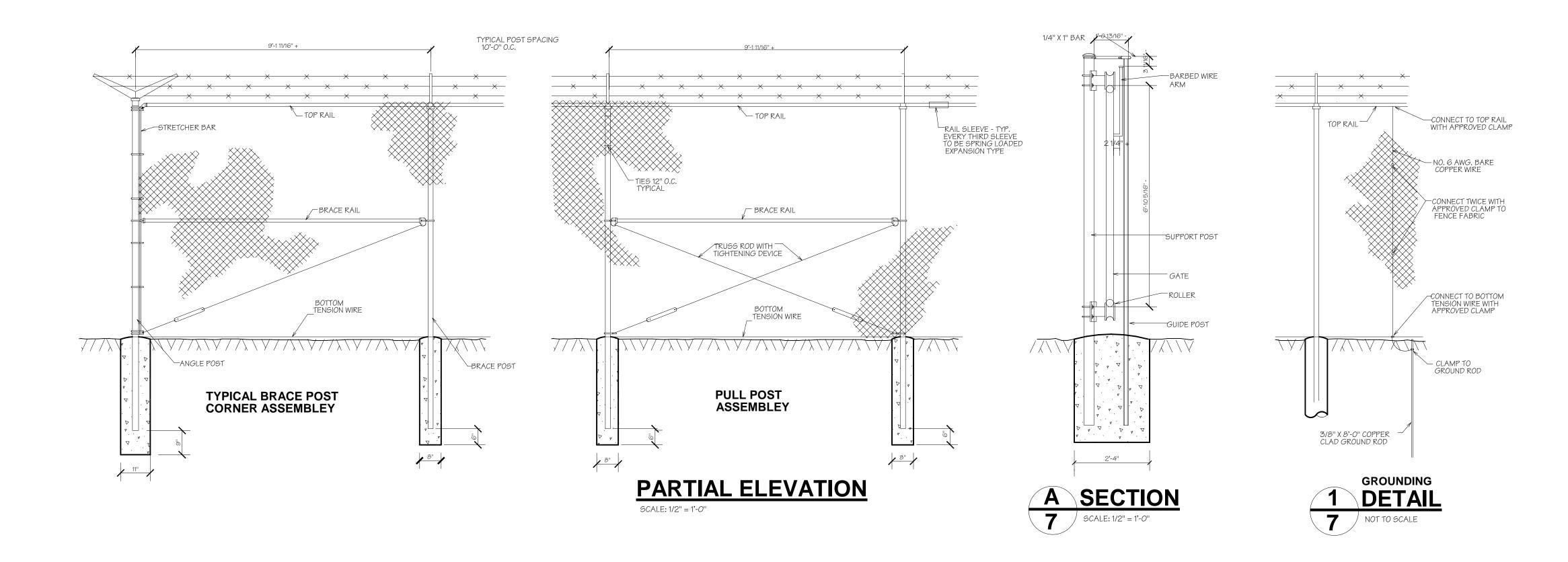
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SHEET 7 OF 8





FEN

RAILS & POSTS SCHEDULE

2.875 2.5 MIN.

ROUND 2.375" 2.5 X 1.875 X 3/16 MIN.

SECTION

ROUND SQUARE

ROUND SQUARE

MATERIAL

LINE POSTS

END, CORNER, PULL POSTS

GATE FRAME - HORIZONTAI

GATE FRAME - VERTICAL

GATE FRAME - DIAG. BRACES ROUND H-SECTION

SUPPORT POSTS

NOMINAL OUTSIDE DIAMETER

2.575 2.5 X 1.875 X 3/16 MIN. 2.25 X 1.95 X 9/64 MIN.

FURNISH HOT DIPPED GALVANIZED IRON OR STEEL COMPONENTS ACCORDING TO THE REQUIREMENTS OF ASTM A120 FOR PIPE AND ROLLED FORMED SECTIONS, ASTM A153 FOR HARDWARE AND ACCESSORIES, AND ASTM A120 FOR OTHER MISCELLANEOUS

FURNISH 8" HIGH CHAIN LINK FABRIC, IN ONE PIECE OF WOVEN 2 INCH MESH OF 9 GAUGE COPPER - BEARING STEEL WIRE WITH A MINIMUM TENSILE STRENGTH AFTER COATING OF 90,000 P.S.I. ACCORDING TO THE REQUIREMENTS OF ASTM A392, CLASS 11. GALVANIZED AFTER FABRICATION.

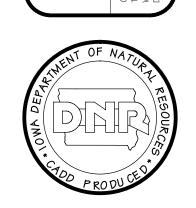
DETAILS THIS SHEET DRAWN FROM INFORMATION PROVIDED BY ANCHOR FENCE ${\it CO}$.

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R. NEWELL
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KE KEOMAH STATE PARK FICE & SERVICE BUILDING HASKA COUNTY, IOWA AINLINK FENCE & GATE OJECT NO. 08-05-62-01

OWA DEPARTMENT OF NATURAL RESOUR
WALLACE STATE OFFICE BUILDING
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HT NOMINAL WEIGHT LB./F

3.65 4.00



SHEET 8 OF 8