CULTURAL EDUCATION CENTER MONTICELLO, IOWA

UTILITY NOTE

THE LOCATIONS OF THOSE BURIED AND ABOVE GROUND UTILITIES SHOWN ARE APPROXIMATE, ARE SHOWN FOR CONTRACTOR INFORMATIONAL USE ONLY, AND ARE NOT TO BE REFERENCED FOR CONSTRUCTION PURPOSES. THE IMPLIED PRESENCE OR ABSENCE OF UTILITIES IS NOT TO BE CONSTRUED BY THE OWNER, ENGINEER, CONTRACTOR, OR SUBCONTRACTORS TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE. BURIED AND ABOVE GROUND UTILITY LOCATION, IDENTIFICATION, AND MARKING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REROUTING, DISCONNECTION PROTECTION, ETC. OF ANY UTILITY MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY AND OWNER. SITE SAFETY, INCLUDING THE AVOIDANCE OF HAZARDS ASSOCIATED WITH BURIED AND ABOVEGROUND UTILITIES, REMAINS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

UTILITIES







MAP PROVIDED BY BING

Sheet	t List Table
SHEET NUMBER	SHEET TITLE
C-000	COVER
C-100	NOTES-DETAILS & LEGEND
C-200	SITE LAYOUT
C-201	OVERALL SITE WITH SECTION
C-300	GRADING PLAN
C-301	EROSION CONTROL PLAN
C-400	CIVIL DETAILS
A1.0	ARCHITECTURAL FLOOR PLAN
A2.0	ELEVATION NORTH & SOUTH
A2.1	ELEVATION EAST & WEST
A3.0	WALL CROSS SECTIONS
A3.1	WALL CROSS SECTIONS
A3.2	WALL CROSS SECTIONS
S1.0	GENERAL NOTES
S1.1	TABLES & SCHEDULES
S1.2	TABLES & SCHEDULES
S1.3	TYPICAL DETAILS
S2.0	FOUNDATION PLAN
S2.1	FIRST FLOOR FRAMING PLAN
S2.2	VIEWING AREA ROOF FRAMING PLAN
S2.3	EXHIBIT AREA ROOF FRAMING PLAN

DEVELOPER/OWNER CAMP COURAGEOUS 12007 190TH ST. MONTICELLO, IOWA 52310 CHARLIE BECKER - CEO PH: 319-465-5916 (WORK)

GENERAL NOTES

- ALL IMPROVEMENTS SHOWN ON THESE ENGINEERING PLANS SHALL COMPLY WITH THE CITY OF MONTICELLO DESIGN AND SPECIFICATIONS, LATEST EDITION, AND THE STANDARDS OF THE IOWA DEPARTMENT OF NATURAL RESOURCES. LATEST EDITION.
- UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS, RECORDS, AND FIELD INVESTIGATION. THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATION AND TO AVOID DAMAGE THERETO.
- ALL DEBRIS RESULTING FROM CONSTRUCTION OPERATIONS SHALL BE PROPERLY DISPOSED OF OFF-SITE UNLESS NOTED.
- THE CONTRACTOR SHALL EXERCISE PROPER CAUTION TO PROTECT THE EXISTING IMPROVEMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE.
- PORTLAND CEMENT CONCRETE. CONCRETE SHALL HAVE THE FOLLOWING PROPERTIES. COMPRESSING STRENGTH SHALL BE 4000PSI IN 14 DAYS, AIR ENTRAINMENT SHALL BE BETWEEN 5 % AND 8% AND SLUMP SHALL BE 4 INCHES OR LESS ALL AS MEASURED BY THE APPROPRIATE ASTM METHODS. REINFORCING STEEL SHALL BE ASTM CERTIFIED 60KSI TENSILE STRENGTH. REINFORCING STEEL SHALL BE #4 SIZE UNLESS OTHERWISE SPECIFIED. HANDRAILS, BOLLARDS, AND OTHER APPURTENANCES SHALL BE INSTALLED PER PLAN AND MEET JURISDICTIONAL REQUIREMENTS.
- CLEANUP AND FINAL INSPECTION. WORK BROKEN OR DAMAGED BY CONTRACTOR ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE. ALL WASTE MATERIAL, CONCRETE WASHOUT, LANDSCAPE WASTE AND BUILDING MATERIAL SHALL BE REMOVED. SOIL SHALL BE REMOVED FROM PAVED AREAS AND THE PROJECT SHALL BE LEFT IN A CLEAN AND WORKMANLIKE MANNER.

GRADING NOTES

- ALL EARTHWORK OPERATIONS SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.
- ALL ELEVATIONS SHOWN ARE TO FLOWLINE FINISHED GRADE OR TOP OF PAVEMENT UNLESS OTHERWISE STATED.
- PROVIDE POSITIVE DRAINAGE AT ALL TIMES WITHIN THE CONSTRUCTION AREAS. DO NOT ALLOW WATER TO POND ON PROPERTY.
- PRIOR TO PLACEMENT OF ANY FILL, THE STRIPPED SITE SHALL BE SCARIFIED TO A DEPTH OF 9 INCHES AND RE-COMPACTED TO 95% DENSITY. ANY UNSUITABLE SOILS FOUND AT THIS TIME SHALL BE DRIED AND RECOMPACTED OR REMOVED IF REQUIRED COMPACTION CANNOT BE OBTAINED. CUT AREAS SHALL ALSO BE SCARIFIED TO A DEPTH OF 9 INCHES AND RE-COMPACTED TO 95% DENSITY.
- ALL FILL MATERIAL SHALL CONSIST OF APPROVED, SUITABLE SOILS PLACED IN LOOSE LIFTS OF 9 INCHES OR LESS AND COMPACTED TO AT LEAST 95% OF THE MATERIAL'S MAXIMUM STANDARD PROCTOR DRY DENSITY (ASTM D-698) IN ALL PAVEMENT, BUILDING ADDITION AND ATHLETIC FIELD AREAS. THE COMPACTION WILL BE FIELD TESTED BY A SOILS ENGINEERING CONSULTANT REPRESENTING THE OWNER.
- PROJECT WILL BE COVERED BY A GENERAL PERMIT REGULATING RUNOFF FROM CONSTRUCTION SITES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PERFORM THE REQUIRED MONITORING, INSPECTION AND MAINTENANCE AS REQUIRED BY THE PERMIT.
- ALL DISTURBED EMBANKMENTS GREATER THAN 3:1 SLOPES SHALL BE SEEDED ACCORDING TO A RECOMMENDED SEEDING MIX BY THE LANDSCAPER AND COVERED WITH EROSION CONTROL BLANKETS OR AS DIRECTED BY PLAN DOCUMENTS.
- CONTRACTOR SHALL ADHERE TO THE CITY OF MONTICELLO EROSION AND SEDIMENT CONTROL REGULATIONS AND THE STATE OF *IOWA* CONSTRUCTION SITE EROSION CONTROL MANUAL.
- ALL AREAS TO BE GREENSPACE AT PROJECT COMPLETION SHALL BE LEFT WITH 9 INCHES OF TOPSOIL WHEN MASS GRADING ACTIVITIES ARE COMPLETE.

EROSION CONTROL NOTES

- EROSION CONTROL SHALL BE INSTALLED PRIOR TO ANY GRADING 1 OPERATIONS WHERE POSSIBLE.
- CONSTRUCTION ENTRANCE SHALL BE MAINTAINED TO PREVENT OFF-SITE 2. TRACKING OF SEDIMENT ONTO PUBLIC ROADWAYS. ANY SEDIMENT DEPOSITED ON PUBLIC ROADS SHALL BE REMOVED BY SHOVELING OR STREET CLEANING BEFORE THE END OF EACH WORKING DAY.
- SHOWN LOCATION OF SILTATION CONTROL IS APPROXIMATE. ACTUAL 3. LOCATIONS TO BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION.
- WATER PUMPED DURING CONSTRUCTION OPERATIONS SHALL BE FILTERED. 4.
- ONCE CONSTRUCTION HAS BEEN COMPLETED, OR TEMPORARILY SUSPENDED 5. FOR LONGER THAN 28 DAYS (SUCH AS WINTER SHUTDOWN), THE CONTRACTOR SHALL INITIATE SEEDING ON ALL AREAS DISTURBED IMMEDIATELY OF THE LAST DISTURBANCE. EROSION CONTROL DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED UNTIL THE CONTRACTOR ESTABLISHES A GOOD STAND OF GRASS OF UNIFORM COLOR AND DENSITY TO THE SATISFACTION OF THE ENGINEER.
- 6. CONTRACTOR SHALL ADHERE TO THE IOWA CONSTRUCTION SITE EROSION CONTROL MANUAL.
- ALL EROSION CONTROL MEASURES MUST BE INSTALLED (WHERE POSSIBLE) PRIOR TO THE COMMENCEMENT OF ANY EARTH DISTURBING OPERATIONS. THE REMAINING EROSION CONTROL MEASURES SHALL BE INSTALLED AS SOON AS REASONABLY POSSIBLE AFTER GRADING OPERATIONS BEGIN WHERE THE PRESENCE OF SILT FENCE WILL INTERFERE WITH ACTIVITIES DIVERSION DITCHES AND SMALL TEMPORARY SEDIMENT TRAPS SHALL BE UTILIZED UNTIL SILT FENCE OR OTHER MEASURES MAY BE INSTALLED AND VEGETATION ESTABLISHED.
- EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND AFTER EACH PRECIPITATION EVENT AND REPLACED OR REPAIRED AS NECESSARY.
- SILT FENCE AND SEDIMENT BASIN SHALL BE CLEANED OR REPLACED WHEN Q SILT BUILDS UP TO WITHIN ONE FOOT OF THE TOP OF THE SILT FENCE.
- PROJECT WILL BE COVERED BY A GENERAL PERMIT REGULATING RUNOFF 10. FROM CONSTRUCTION SITES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PERFORM THE REQUIRED MONITORING, INSPECTION AND MAINTENANCE AS REQUIRED BY THE PERMIT.
- 11. CONCRETE WASHOUT DEBRIS SHOULD BE HAULED OFF-SITE. WASHOUT SHOULD BE FILLED IN AND SEEDED.
- 12. ALL AREAS DISTURBED BEYOND LIMITS SHOWN SHOULD BE SEEDED WITH ADJACENT SEED MIXTURE OR IN-KIND.
- 13. THERE ARE NO EXPECTED DOWNSTREAM IMPACTS OTHER THAN THOSE ALLOWED PER ORDINANCE (2 YEAR, PRE-DEVELOPED RATE OF RELEASE)

UTILITY NOTES

- 1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL EXISTING UTILITIES AND PAVED STREETS, INCLUDING ANY NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER IF ANY CONFLICTS WITH THE DRAWINGS OCCUR. ANY DAMAGE TO EXISTING UTILITIES AND/OR PAVED STREETS CAUSED BY TRENCHING AND GRADING OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. EXISTING UTILITY LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE.
- 2. ALL EXISTING UNDERGROUND UTILITIES SHOWN WERE LOCATED PARTIALLY IN THE FIELD AND PARTIALLY FROM REVIEW OF EXISTING PUBLIC RECORDS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT EACH UTILITY COMPANY FOR THE FIELD LOCATION OF THEIR EXISTING LINES IN OR NEARBY THE CONSTRUCTION AREA PRIOR TO BEGINNING ANY CONSTRUCTION.
- 3. THE CONTRACTOR SHALL EXERCISE PROPER CAUTION TO PROTECT THE EXISTING IMPROVEMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE.
- 4. THE LOCATIONS OF THOSE BURIED AND ABOVE GROUND UTILITIES SHOWN ARE APPROXIMATE, ARE SHOWN FOR CONTRACTOR INFORMATIONAL USE ONLY, AND ARE NOT TO BE REFERENCED FOR CONSTRUCTION PURPOSES. THE IMPLIED PRESENCE OR ABSENCE OF UTILITIES IS NOT TO BE CONSTRUED BY THE OWNER, ENGINEER, CONTRACTOR, OR SUBCONTRACTORS TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE. BURIED AND ABOVE GROUND UTILITY LOCATION, IDENTIFICATION, AND MARKING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REROUTING, DISCONNECTION, PROTECTION, ETC. OF ANY UTILITY MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY AND OWNER. SITE SAFETY, INCLUDING THE AVOIDANCE OF HAZARDS ASSOCIATED WITH BURIED AND ABOVEGROUND UTILITIES, REMAINS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 5. WATER MAIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH LOCAL WATER COMPANY STANDARD SPECIFICATIONS FOR WATER MAIN CONSTRUCTION.
- 6. ALL WATER MAIN SHALL HAVE A MINIMUM COVER OF 5 FEET.
- 7. MAINTAIN 18 INCHES VERTICAL SEPARATION (OUTER EDGE TO OUTER EDGE) BETWEEN WATER MAIN AND SEWER.
- 8. NITRILE GASKETS SHALL BE USED WHERE WATER MAIN CROSSES BELOW STORM SEWER.
- 9. UTILITY PIPING. ALL WORK SHALL BE PERFORMED IN CONFORMANCE WITH THE PIPE MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION METHODS INCLUDING BACKFILL MATERIAL AND MATERIAL DEPTHS. PIPE MATERIAL SHALL BE AS SPECIFIED ON THE PLANS. ALL MATERIAL SHALL MEET THE REQUIREMENTS OF THE LOCAL JURISDICTION FOR STRENGTH, MATERIAL TYPE AND CONFORMITY WITH THE EXISTING SYSTEM. SEWER LINES SHALL BE CONSTRUCTED STRAIGHT TO THE SPECIFIED LINE AND GRADES. MANHOLES, STORM INLETS, VALVE BOXES AND APPURTENANCES SHALL BE ADJUSTED TO GRADE OR PER PLAN PRIOR TO SEEDING/LANDSCAPING ACTIVITIES.

			0 7 0
	LEGENE	<u>D</u>	NC NC
PROPOSED	EXISTING		
\bullet	•	STORM MANHOLE	172 CE
		STORM INLET	
\bullet	\bullet	STORM INLET	
		STORM DOUBLE INLET	
<	•	FLARED END SECTION	
		DOWNSPOUT	
	•	SANITARY MANHOLE	
		SANITARY/STORM CLEANOUT	
	•	UNKNOWN MANHOLE	
M	M	WATER VALVE	
¥	Ŭ	HYDRANT	RE D7 PF
\bullet		WELL	
		SPRINKLER BOX	142 ST 142 ST 14
		WATER METER	IIN 100 100 100 100 100 100 100 100 100 10
	₩	WATER SERVICE	A 5355 SCIE
-	-	POWER POLE	
	* ×-	POWER POLE W/ LIGHT	V C C C C C C C C C C C C C C C C C C C
	ŧ	POWER POLE W/ METER	
	(GUY WIRE	
	•	GUY POLE	Civ WA ANS
\bullet	•	ELECTRIC MANHOLE	
		ELECTRIC PEDESTAL/TRANSFORMER	
		ELECTRIC METER	
↔	-	TELEPHONE POLE	
igodot	•	TELEPHONE MANHOLE	
		TELEPHONE PEDESTAL	
ullet	•	UTILITY MANHOLE	
		HANDHOLE	ź
\bullet	•	GAS VALVE	Ш
×	\mathbf{X}	LIGHT POLE	<u> </u>
	*	VAPOR LIGHT	
		LIGHT JUNCTION BOX	
		SIGN	$\overline{>}$
	⊷	FLAGPOLE	
	● 12"	POST/BOLLARD	
	(°)	CONIFER TREE	₹ Be
	111 12"		
	$\langle \cdot \rangle$	DECIDUOUS TREE	
	6" X		
	Z.Z	BUSH/SHRUB	
		TREE STOMP	
		CONTROL POINT	Ш
	$\mathbf{\Phi}$	BENCHMARK	
			FOUCATIONAL - NOT
		R.O.W. MARKER, FOUND	FOR CONSTRUCTION
	•	RAILROAD SPIKE, FOUND	
	•	PIPE, FOUND	Ŭ
	■ .	CONCRETE MONUMENT, FOUND	
	100.00	MEASURED DIMENSION	
	(100.00′)	RECORDED DIMENSION	
	×100.00 TC=100.00	SPOTELEVATION	
	FL=100.00		
	1.0%	DRAINAGE SLOPE	\mathbf{O}
	\$		
		FASEMENT LINE	
			53 23
			St.
		SANITARY SEWER	
		STORM SEWER	
w		WATER LINE	Mc 12
OE	OE	OVERHEAD ELECTRIC	
<u>— Е — Е — — Е — — — — — — — — — — — — —</u>	——Е ——Е ——	UNDERGROUND ELECTRIC	
GG	GG	GAS LINE	
TT	TT	TELEPHONE LINE	
	UTUT	UTILITY LINE	SHEET NAME
		EDGE OF WATER LINE/DITCH FLOWLINE	
			NOTES-DETAILS &
//	//	SILI FENCE	LEGEND
100	— — — —100— — — —		
			SHEET NO
			SHELI NU.
	·		
	· ·		(]_ [()()
		CONSTRUCTION LIMITS	

	CEE: 4850	12/17/21	NCO		
0 10 20 SCALE: 1" = 10'	PROJECT:	DATE :	DRAWN BY:	REVISION:	
	THE UNIVERSITY OF IOWA		4705 SEAMANS CENTER FOR THE ENGINEERING ARTS AND SCIENCES	IOWA CITY, IOWA 52242	FHUNE: 319.353.564/ FAX: 319.335.5660 EMAIL: civil-hawks@uiowa.edu
			H MDT		
			ATIONA ONSTR	L - NO UCTIO	T N
				12007 190th St.	Monticello, IA 52310
	SHEET S	ITE	ME LAY	OUT	
	SHEET	NO	2	0	0

5. DETAIL DERIVED FROM THE ILLINOIS URBAN MANUAL (STANDARD DWG NO. IUM-530).

CEE: 4850	12/17/2	NCC		
PROJECT:	DATE :	DRAWN BY:	REVISION:	
THE UNIVERSITY OF IOWA	CIVIL AND ENVIRONMENTAL ENGINEERING	4105 SEAMANS CENTER FOR THE ENGINEERING ARTS AND SCIENCES	IOUS S CAPITOL ST IOWA CITY, IOWA 52242	FHUNE: 319.335.564/ FAX: 319.335.5660 EMAIL: civil-hawks@uiowa.edu
			CIVIL & ENVIRONMENTAL ENGINEERING	TN
	CULTURAL EDUCATION (12007 190th St.	Monticello, IA 52310
SHEE	ET N/ CIVI	AME IL DE	TAIL	S
(2-	-4	0	0

 A NON-SHRINK GROUT SHALL BE HYDVIDEU AS FOLLOWS.
 1) BETWEEN COLUMN BASES AND FOUNDATIONS.
 9. WOOD STRUCTURAL PARELS:
 A PAREL APPLICATION SHALL BE IN ACCORDANCE WITH RECOMMENDATIONS OF THE AMERICAN PLYWOOD ASSOCIATION (APA.)
 B. PARELS MAY BE EITHER PLYWOOD OR ORIENTED STRAND BOARD. PANELS SHALL CONFORM TO THE REQUIREMENTS FOR THEIR TYPE IN DOC PS 1 OR PS 2.
 C. SHEATHING SHALL BE STRUCTURAL IC.D. INTAFA FOR INTERIOR USE AND II.C.C. EXT-APA FOR INTERIOR USE, ADTINICKNESS SHOWN ON THE DRAWINGS.
 D. EACH PANEL OR MEMBER SHALL BE DISTIFIED FOR GRADE AND GLUE TYPE BY THE TRADEMARKS OF AN APPROVED TESTING AND GRADING AGENCY.
 E. ALL PARLES WHICH HAVE ANY EDGE OR SUFFACE PERMANENTLY LEYOPOSED TO THE WEATHER SHALL BE OF THE ESTERIOR TYPE.
 F. UNLESS NOTED OTHERWISE, WHERE SHEAR WALLS HAVE NOT BEEN SPECIFIED AT THE EXTERIOR OF THE BUILDING, ALL EXTERIOR TYPE.
 F. UNLESS NOTED OTHERWISE, WHERE SHEAR WALLS HAVE NOT BEEN SPECIFIED AT THE EXTERIOR OF THE BUILDING, ALL EXTERIOR TYPE.
 F. UNLESS NOTED OTHERWISE, WHERE SHEAR WALLS HAVE NOT BEEN SPECIFIED AT THE EXTERIOR OF THE BUILDING, ALL EXTERIOR TYPE.
 THOR, EXTERIOR C.C., 23/16 APA SPAN RATED DIVINOOD ON ROB SHEATINING TAULE SHADL BE MINIMUM IS 137 0°.C. AT INTEGMEDIATE (FIEI D) FRAMING MEMBERS. MINIMUM NAIL PENETRATION OF 1.3/4' IS REQUIRED. THE SHALL BE SCHER WALL SHEED SHEATING SHEAD SHOT BE SHEATING, STARLE SHEAD SHOT BE SHEAD THING TO WALL SHADL AT 6°.C., 37/16 AND SAFEN ARTICLE DEGIS AND 12°.C. AT
INTEGMEDIATE (FIEI D) FRAMING MEMBERS. MINIMUM NAIL PENETRATION OF 1.3/4' IS REQUIRED. FOR SHEAR WALL SCHEDULE FOR SHEATING, GTARLES SHEAD SHOT BOUND ON DR ON SHADE AND AND SAFEN ATTENDED ON SHADE AND AND AND THE DAVED AND SAFEN THE SAFEN AND A SAFEN ARTED BED SHEAD THING TAUL. SCHEDULE FOR SHEAR WALL REQUIREMENTS. 15/32 "THICK, EXTERIOR C-C, 32/16 APA SPAN RATED PLYWOOD OR OSB SHEATHING, ATTACHED SHEATHING TO WALL STUDS WITH 80 ANLS AT 6" O.C. AT ENGES AND 12" O.C. AT INTERMEDIATE (FIELD) FRAMING MEMBERS, MINIMUM MAIL PENTRATION OF 3/4" S REQUIRED. RE: SHEAR WALL SCHEDULE FOR SHEAR WALL REQUIREMENTS. G. UNLESS NOTEO OTHERWISE, ROOF SHEATHING SHALL BE MINIMUM 1932" THICK, EXPOSURE 1, 4020 AP SPAN RATED PLYWOOD OR OSB SHEATHING. ATTACHED SHEATHING TO ROOF MEMBERS WITH 80 ANLS AT 6" O.C. AT INTERMEDIATE (FIELD) FRAMING MEMBERS, MINIMUM NAIL PENETRATION OF 1-34" IS REQUIRED. H. UNLESS NOTEO OTHERWISE, FLOORDIAPHRAGM SHEATHING SHALL BE MINIMUM 23/2" THICK, EXPOSURE 1, 4020 APD GROOVE), EXPOSURE 1, 48/24 APA SPAN RATED PLYWOOD OR OSB SHEATHING, ATTACHED SHEATHING SHOLL BE MINIMUM 23/2" THICK, (TONGUE AND GROOVE), EXPOSURE 1, 48/24 APA SPAN RATED PLYWOOD OR OSB SHEATHING, ATTACHED SHEATHING IS HOLD SMITH 104 ANLS AT 6" O.C. AT INFERMEDIATE (FIELD) RAMING MEMBERS, MINIMUM NAIL PENETRATION OF 1-1/2" IS REQUIRED. ALL EXTERIOR SHEATHING SHALL BE MORE WITH 104 ANLS AT 6" O.C. AT ONE OF AND HORZONTALLY CONTINUOUS FROM BUILDING CORNER TO BUILDING CORNER AND I ALL EXTERIOR SHEATHING SHALL BE CONTINUOUS FROM FOUNDATION TO ROOF AND HORZONTALLY CONTINUOUS FROM BUILDING CORNER TO BUILDING CORNER AND

1. ALL EXTERIOR SHEATHING SHALL BE MADE CONTINUOUS FROM FOUNDATION TO ROOF AND HORIZONTALLY CONTINUOUS FROM BUILDING CORNER TO BUILDING CORNER AND AROUND ALL OPENINGS BY NAILING TO STUDS OR BLOCKING IN WALLS, UNLESS NOTEO OTHERWISE. J. ALL OPENINGS IN THE ORECTORN OF THE REQUIRED THE AND BLOCKING. METAL TIES SHALL HAVE BLOCKING AND METAL STRAPPING TO EXTEND NOT LESS THAN THE DIMENSION OF THE OPENING IN THE DIRECTION OF THE REQUIRED THE AND BLOCKING. METAL TIES SHALL BE 16 GAUGE [33KSI] IN THICKNESS AND 1-1/2" INCHES IN WIDTH, CONNECTED WITH NOT LESS THAN (%) HAD COMMON NAILS ON BA. SIDE OF THE BLOCKING-JOIST INTERSECTION, UNLESS NOTED OTHERWISE. 10. POST-INSTALLED ANCHORS: A MECHANICAL ARCHORS:

A. MECHANICAL ANCHORS: 1) DRILL HOLES USING THE CORRECT DIAMETER DRILL BIT PER THE MANUFACTURER'S SPECIFICATIONS TO THE ACHIEVE THE EMBEDMENT DEPTH SHOWN ON THE

DRAWINGS. JRAWINGS. 2) CLEAN OUT THE HOLES WITH A BLOWOUT BULB OR COMPRESSED AIR. 3) SET THE ANCHOR PER THE MANUFACTURER'S INSTRUCTIONS AND TIGHTEN TO THE MANUFACTURER'S SPECIFIED TORQUE.

B. ADHESIVE ANCHORS:
 1) DRILL HOLES USING THE CORRECT DIAMETER DRILL BIT PER THE MANUFACTURER'S SPECIFICATIONS TO THE ACHIEVE THE EMBEDMENT DEPTH SHOWN ON THE

DRAWINGS. 2) CLEAN OUT THE HOLES WITH A BLOWOUT BULB OR COMPRESSED AIR. 3) SET THE ADHESIVE AND ANCHOR PER THE MANUFACTURER'S INSTRUCTIONS, FOLLOW ALL MANUFACTURERS'S TEMPERATURE REQUIREMENTS AND TIGHTEN TO THE MANUFACTURER'S SPECIFIED TORQUE.

MANUFACTURERS SPECIFIED TORQUE. WERERAL: A ENGINEERS ACCEPTANCE MUST BE SECURED FOR ALL STRUCTURAL SUBSTITUTIONS, IF THE CONTRACTOR REQUESTS A CHANGE FROM THE STRUCTURAL DRAWINGS, IT SHALL BE APPROVED BY THE ARCHITECT AND DESIGNED BY HIE ENGINEERS FROR TO SUBMITTING SHOP DRAWINGS. PROPOSED VARAITON SHALL BE ENGINEERS OF NOT AND SHOP DRAWINGS. CONTRACTOR SHALL COMPENSATE HIE ENGINEERS FROR TO SUBMITTING SHOP DRAWINGS. PROPOSED VARAITON SHALL BE ENGINEERS OF NOT AND SHOT PROPOSED OF NATAL DRAWINGS. PROPOSED VARAITON SHALL BE INFORMATE ON THE SHOP DRAWINGS. CONTRACTOR SHALL COMPENSATE HIE ENGINEERS FOR MAKING THE PROPOSED CHANGE. B. VERIFY ALL DEFENNOS THROUGH FLOORS, ROOF AND WALLS WITH MECHANICAL AND ELECTRICAL CONTRACTORS. VERIFICATION OF LOCATIONS, SIZES, LINTELS, AND REQUIRED CONNECTIONS ARE CONTRACTORS COMPLETE RESPONSIBILITY. C. PRIOR TO INSTALLATION OF MECHANICAL AND ELECTRICAL EQUIPMENT OR OTHER ITEMS TO BE ATTACHED TO THE STRUCTURE, ENGINEERS APPROVAL OF CONNECTIONS AND SUPPORTS SHALL BE OFTANCED UNLESS SPECIFICALLY DETAILED ON ARCHITECTURAL AND STRUCTURAL DRAWINGS, RESPECTIVE SUBCONTRACTOR SHALL FURNISH ALL DEPONDE LENGENS STRUCTURE AS NOTED ON ARCHITECTURAL MECHANICAL ELECTRICAL AND STRUCTURAL DRAWINGS. MISCELLANEOUS EMBEDDED ITEMS AND ANCHOR BOLTS SHALL BE FURNISHED BY STEEL SUPPLIER AND INSTALLED BY CONCRETE CONTRACTOR. F. ALL DIMENSIONS ON STRUCTUREA DRAWINGS SHALL BE CHECKED AGAINST ARCHITECTURAL DRAWINGS. F. ALL DIMENSIONS ON STRUCTURE AS MOTED ON ARCHITECTURAL DRAWINGS. F. ALL DIMENSIONS ON STRUCTURES AND REGULATIONS SHALL BE CHECKED AGAINST ARCHITECTURAL DRAWINGS. H. TIS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH ALL APPLICABLE LOCAL SAFETY REQUIREMENTS AND ALL APPLICABLE OSHAR REQUIREMENTS. I. THE CONTRACTOR'S RESPONSIBILET FOR THE ADEQUIATE DESIGN OF ALL FORMS, BRACCIDA SARE CONSTRUCTION PROCEDURES. J. APPLICABLE PROCEDURES AND REGULATIONS FOR TRENCHING ON ROXATION PROCEDURES BE FREPARED DROFESSIONAL ENGINEER M. THE CONTRACTOR'S ALL BE RESPONSIBLE FOR THE ADEQUIRE DESIGN

CALL INFOCUTION. A THE OWNER MAY BE REQUIRED BY THE BUILDING DEPARTMENT TO EMPLOY A SPECIAL INSPECTOR, WHICH MUST CONSIST OF A LICENSED PROFESSIONAL ENGINEER. THE SPECIAL INFECTION MAY INCLUDE BUT IS NOT LIMITED TO:

Si FULLY COMPLETED ASSEMBLY
 THE SPECIAL INSPECTOR SHALL SUBMIT A COPY OF ALL REPORTS PERTAINING TO THE PROJECT DIRECTLY TO THE OWNER AND CONTRACTOR, AND IF REQUIRED TO DO SO, THE CONTRACTOR SHALL PROVIDE THE SPECIAL INSPECTION REPORT TO THE BUILDING DEPARTMENT.
 THE OWNERYCONTRACTOR SHALL COORDINATE DIRECTLY WITH THE EVENICER TO LESS THAN SEVEN (7) BUSINESS DAYS PRIOR TO WHEN THE SPECIAL INSPECTION IS NEEDED SO THAT SUCH ACTIVITY CAN BE PERFORMED WITH MINIMAL IMPACT TO THE PROJECT SCHEDULE.
 DEFERRED SUBMITTAL:
 DEFERRED SUBMITTAL: THEN SOMAD THE DOVENTS TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT HE DEFERRED SUBMITTAL INFORMANCE WITH THE DESIGN OF THE BUILDING. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.
 I) PRE-ENGINEERED WOOD TRUSSES.

St	andard Abbreviations & Symbols	St	andard Abbreviations & Symbols
Notation	Name	Notation	Name
A.B.	Anchor Bolt	HORZ.	Horizontal
ACI	American Concrete Institute	HP	Helical Pier
ADJ.	Adjustable	HSS	Hollow Structural Steel
AISC	American Institute of Steel Construction	IBC	International Building Code
APA	American Plywood Association	ICC	International Code Council
ARCH.	Architect/Architectural Drawings	IRC	International Residential Code
ASCE	American Society of Civil Engineers	LLH	Long Leg Horizontal
ASD	Allowable Stress Design	LLB	Long Leg Vertical
ASTM	American Society for Testing and	LRFD	Load and Resistance Factor Design
	Materials	MAX.	Maximum
BCI	Boise Cascade I-Joist	MFR.	Manufacturer
BCSI	Building Component Safety Information	MIN.	Minimum
B.O.	Bottom Of	MISC.	Miscellaneous
CANT.	Cantilever	(N)	New
CLR.	Clear/Clearance	NO./.#	Number
CL	Center Line	N.T.S.	Not To Scale
COL.	Column	0.C.	On Center
CONC.	Concrete	OSB	Oriented Strand Board
CONT.	Continious	PL.	Plate
C.I.P.	Cast-in-Place	PSF	Pounds per Square Foot
C.J.	Control Joint	P.T.	Pressure Treated
DBL.	Double	RE:	Refer to/Reference
DET.	Detail	REINF.	Reinforcement
DIA.	Diameter	REQ.	Required
E	Modulus of Elasticity	SCHED.	Schedule
(E)	Existing	SIM.	Similar
EA.	Each	S.O.G.	Reinforced Concrete Slab on Grade
ELEV.	Elevation	STD.	Standard
ESR	Elevation Service Report	STL.	Structural Steel
EQ.	Equal	TJI	Truss Joist, I-Joist
EXP.	Exposure/Exposed/Expansion	TEMP.	Temporary
EXT.	Exterior	T.O.	Top of
FND.	Foundation	TYP.	Typical
GA.	Gauge	TRANS.	Transverse
GALV.	Galvanized	U.N.O.	Unless Noted Otherwise
GEN.	General	VERT.	Vertical
GR	Grade Beam	W/	With
GYP.	Gypsum Board	W.P.	Work Point
H.A.S.	Headed Anchor Stud	W.W.F.	Welded Wire Fabric
HD	Hold Down	L	

THE UNIVERSITY OF IOWA PROJECT: CEE-4850 CIVIL AND ENVIRONMENTAL ENGINEERING DATE: 120770021	4105 SEAMANS CENTER FOR THE ENGINEERING ATTS AND SCIENCES DRAWN BY: UIS Engineering, Inc.		PHONE: 319:335:5647 FAX: 319:335:5660 EMAIL: dvi1-hawks@uiova.edu
Cultural Education Center Gener SHEET NO SHEET NO SHEET NO SHEET NO		Campe Courageous	ap 12007 190th St., Monticello, IA 52310

(IBC TABL	E - 2304.10.1/IRC TABLE - R602.3(1))			
DESCRIPTION OF BUILDING	NUMBER AND TYPE OF	SPACING AND		
ELEMENTS	FASTENER	LOCATION		
	ROOF ²			
1. BLOCKING BETWEEN CEILING JOISTS,	3 - 8d COMMON (0.131" x 2-1/2"); OR 3 - 10d BOX (0.128" x 3"): OR	March 1 and 1		
RAFTERS OR TRUSSES TO TOP PLATE OR	3 - (0.131" x 3") NAILS; OR	EACH END, TOENAIL		
OTHER FRAMING BELOW	3 - (14 GA. x 3") STAPLES, 76" CROWN			
	2 - 8d COMMON (0.131" x 2-1/2") 2- (0.131" x 3") NAU S	FACH END TOFNAL		
BLOCKING BETWEEN RAFTERS OR	2 - (14 GA. x 3") STAPLES	EAGITEND, TOENALE		
TO RAFTER OR TRUSS	2 - 16d COMMON (0.162" x 3-1/2")	PND NAU		
	3 - (14 GA. x 3") STAPLES	ENDNAIL		
FLAT BLOCKING TO TRUSS AND WEB	16d COMMON (0.162" x 3-1/2") @ 6" 0.C.			
FILLER	(0.131" x 3") NAILS @ 6" O.C. (14 GA. x 3") STAPLES @ 6" O.C.	FACE NAIL		
	3 - 8d COMMON (0.131" x 2-1/2"); OR			
2. CEILING JOISTS TO TOP PLATE	3 - 10d BOX(0.128" x 3"); OR 3 - (0.131" x 3") NAILS: OR	EACH JOIST, TOENAIL		
	3 - (14 GA. x 3") STAPLES, 7/16" CROWN			
CEILING IOIST NOT ATTACHED TO	3 - 16d COMMON (0.162" x 3-1/2"); OR			
PARALLEL RAFTER, LAPS OVER	4 - 10d BOX (0.128" x 3"); OR 4 - (0.131" x 3") NAUS: OP	FACE NAIL		
PARTITIONS (NO THRUST)	4 - (14 GA. x 3") STAPLES, 7" CROWN			
4. CEILING JOIST ATTACHED TO	PER TABLE 2308.7.3 1 OR R802.5.2	FACE NAIL		
PARALLEL RAFTER (HEEL JOINT)	3 - 10d COMMON (0 148" x 3"): OR			
COLLAD THE TO DARTED	4 - 10d BOX (0.128" x 3"); OR	FACE NAIL		
5. COLLAR TIE TO RAFTER	4 - (0.131" x 3") NAILS; OR 4 - (14 GA x 3") STAPLES 7" CROWN	FAGE MAIL		
	3 - 10d COMMON (0.148" x 3"): OR			
A DAPTED OF BOOP TRUCK TO TOP	3 - 16d BOX(0.135" x 3-1/2"); OR			
PLATE	4 - 10d BOX (0.128" x 3"); OR 4 - (0.131" x 3") NAILS: OR	TOENAIL		
	4 - (14 GA. x 3") STAPLES, 7 CROWN			
	2 - 16d COMMON (0.162" x 3-1/2"); OR	Sec		
	3 - 10d BOX (0.128" x 3"); OR 3 - (0.131" x 3") NAILS: OR	END NAIL		
7. ROOF RAFTERS TO RIDGE VALLEY OR	3 - (14 GA. x 3") STAPLES, 7 CROWN	10000		
HIP RAFTERS; OR ROOF RAFTER TO	3 - 10d COMMON (0.148" x 3"); OR			
2-INCH RIDGE BEAM	4 - 16d BOX(0.135" x 3-1/2"); OR 4 - 10d BOX (0.128" x 3"): OR	TOPNAU		
	4 - (0.131" x 3") NAILS; OR	TUENAIL		
	4 - (14 GA. x 3") STAPLES, 7 CROWN			
	WALL			
	16d COMMON (0.162" x 3-1/2")	24" O.C. FACE NAIL		
B. STUD TO STUD (NOT AT BRACED WALL PANELS)	10d BOX (0.128" x 3"); OR			
The Phillip	(0.131" x 3") NAILS; OR	16" O.C. FACE NAIL		
	S- LIT UN. X.S. J SINPLES, TE CRUWN			
9 CTUD TO CTUD AND ADUPTING OFFICE	16d COMMON (0.162" x 3-1/2"); OR	16" O.C. FACE NAIL		
AT INTERSECTING WALL CORNERS (AT	16d BOX (0.135" x 3-1/2"): OR	12" O.C. FACE NAU		
BRACED WALL PANELS)	(0.131" x 3") NAILS; OR	10100 01000000		
	3 - (14 GA. x 3") STAPLES, 7/16" CROWN	12" U.C. FACE NAIL		
10. BUILT-UP HEADER (2" TO 2"	16d COMMON (0.162" x 3-1/2"); OR	16" O.C. EA. EDGE, FACE NAIL		
HEADER)	16d BOX (0.135" x 3-1/2"); OR	12" O.C. EA. EDGE,		
	4 - 8d COMMON (0.131" x 2-1/2"): OR	FACE NAIL		
11. CONTINUOUS HEADER TO STUD	4 - 10d BOX(0.128" x 3"); OR	TOENAIL		
	16d COMMON (0.162" x 3-1/2"); OR	16" O.C. FACE NAIL		
12. TOP PLATE TO TOP PLATE	(0.131" x 3") NAILS; OR	12" O.C. FACE NAU		
	(14 GA. x 3") STAPLES, 76" CROWN	a tracting the		
	8 - 16d COMMON (0.162" x 3-1/2"); OR	EA. SIDE OF END		
13. TOP PLATE TO TOP PLATE, AT END	12 - 10d BOX (0.128" x 3"); OR 12 - (0.131" x 3") NAILS: OP	(MIN. 24" LAP SPLICE		
JUINTS	12 - (14 GA x 3") STAPLES, 7" CROWN	LENGTH EA. SIDE OF		
		LAD JOINT		
14 BOTTOM PLATE TO JOIST BIM JOIST	16d COMMON (0.162" x 3-1/2"); OR	16" O.C. FACE NAIL		
BAND JOIST OR BLOCKING (NOT AT	16d BOX (0.135" x 3-1/2"): OR			
BRACED WALL PANELS]	(0.131" x 3") NAILS; OR	12" O.C. FACE NAIL		
	(14 GA. x 3") STAPLES, 76" CROWN			

15. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING AT BRACED WALL PANELS	2 - 16d COMMON (0.162" x 3-1/2"); OR 3 - 16d BOX (0.135" x 3-1/2"); OR 4 - (0.131" x 3") NAILS; OR 4 - (14 GA. x 3") STAPLES, $\frac{2}{16}$ " CROWN	16" O.C. FACE NAIL
	4 - 8d COMMON (0.131" x 2-1/2"); OR 4 - 10d BOX (0.128" x 3"); OR 4 - (0.131" x 3") NAILS; OR 4 - (14 GA, x 3") STAPLES ^J / ₄ CROWN	TOENAIL
16. STUD TO TOP OR BOTTOM PLATE	2 - 16d COMMON (0.162" x 3"); OR 3 - 10d BOX (0.128" x 3"); OR 3 - (0.131" x 3") NALS; OR 3 - (14 GA. x 3") STAPLES, $\frac{7}{16}$ " CROWN	END NAIL
17. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS.	2 - 16d COMMON (0.162" x 3-1/2"); OR 3 - 10d BOX (0.128" x 3"); OR 3 - (0.131" x 3") NAILS; OR 3 - (14 GA. x 3") STAPLES, ⁷ / ₁₆ CROWN	FACE NAIL
18. 1" BRACE TO EA. STUD AND PLATE	2 - 8d COMMON (0.131" x 2-1/2"); OR 2 - 10d BOX (0.128" x 3"); OR 2 - (0.131" x 3") NAILS; OR 2 - (14 GA. x 3") STAPLES, 71/16" CROWN	FACE NAIL
19. 1" x 6" SHEATHING TO EA. BEARING	2 - 8d COMMON (0.131" x 2-1/2"); OR 2 - 10d BOX (0.128" x 3")	FACE NAIL
20. 1" x 8" AND WIDER SHEATHING TO EA BEARING	3 - 8d COMMON (0.131" x 2-1/2"); OR 3 - 10d BOX (0.128" x 3")	FACE NAIL
LA DEANING	FLOOR ²	
21. JOIST TO SILL, TOP PLATE, OR GIRDER	3 - 8d COMMON (0.131* x 2-1/2*); OR 3 - 10d BOX (0.128* x 3*); OR 3 - (0.131* x 3*) NAILS; OR 3 - (14 GA. x 3*) STAPLES, ⁷ / ₁₅ * CROWN	TOENAIL
22. RIM JOIST, BAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR OTHER FRAMING BELOW	8d COMMON (0.131" x 2-1/2"); OR 10d BOX (0.128" x 3"); OR (0.131" x 3") NAILS; OR (14 GA. x 3") STAPLES, $\frac{7}{16}$ " CROWN	6" O.C. TOENAIL
23. 1" x 6" SUBFLOOR OR LESS TO EA. JOIST	2 - 8d COMMON (0.131" x 2-1/2"); OR 2 - 10d BOX (0.128" x 3")	FACE NAIL
24. 2" SUBFLOOR TO JOIST OR GIRDER 25. 2" PLANKS (PLANK & BEAM - FLOOR	2 - 16d COMMON (0.162" x 3-1/2"); OR 2 - 16d COMMON (0.162" x 3-1/2"); OR	FACE NAIL EACH BEARING, FACE
& ROOF)		NAIL 32" O.C. FACE NAIL
	20d COMMON (0.192" x 4")	AT TOP AND BOTTON STAGGERED ON OPPOSITE SIDES
26. BUILT-UP GIRDERS AND BEAMS, 2" LUMBER PLIES/LAYERS	10d BOX (0.128" x 3"); OR (0.131" x 3") NAILS; OR (14 GA. x 3") STAPLES, ⁷ / ₁₆ " CROWN	24" O.C., FACE NAIL AT TOP AND BOTTON STAGGERED ON OPPOSITE SIDES
	AND: 2-20d COMMON (0.192" x 4"); OR 3-10d BOX (0.128" x 3"); OR 3-(0.131" x 3") NAILS; OR 3-(14 GA. x 3") STAPLES, $\frac{1}{2}$ " CROWN	ENDS AND AT EA. SPLICE, FACE NAIL
27. LEDGER STRIP SUPPORTING JOISTS OR RAFTERS	3 - 16d COMMON (0.162" x 3-1/2"); OR 4 - 10d BOX (0.128" x 3"); OR 4 - (0.131" x 3") NAILS; OR 4 - (14 GA. x 3") STAPLES, 75" CROWN	EA. JOIST OR RAFTER, FACE NAIL
28. JOIST TO BAND JOIST OR RIM JOIST	3 - 16d COMMON (0.162" x 3-1/2"); OR 4 - 10d BOX (0.128" x 3"); OR 4 - (0.131" x 3") NAILS; OR 4 - (14 GA. x 3") STAPLES, 75" CROWN	END NAIL
29. BRIDGING OR BLOCKING TO JOIST, RAFTER OR TRUSS	2 - 8d COMMON (0.131" x 2-1/2"); OR 2 - 10d BOX (0.128" x 3"); OR 2 - (0.131" x 3") NAILS; OR 2 - (14 GA. x 3") STAPLES, 76 CROWN	EACH END, TOENAIL
WOOD STRUCTURAL	PANELS (WSP), SUBFL	OOR, ROOF & MINC ³
30. 3/8" - 1/2"	8d COMMON OR DEFORMED	6" O.C. EDGE
21 10/22* 2/4*	(0.131"x2-1/2")	12" O.C. FIELD 6" O.C. EDGE
54. 17/36 - 3/4 DAMDI		12" O.C. FIELD
PANEL	SIDING TO FRAMING	1
32. 1/2" OR LESS	(0.106*x1-7/8") NAILS; OR 6d CORROSION-RESISTANT CASING (0.099"x2") NAILS	6" O.C. EDGE 12" O.C. FIELD
33. 5/8"	8d CORROSION-RESISTANT SIDING (0.128"x2-3/8") NAILS; OR 8d CORROSION-RESISTANT CASING (0.112"x2-1/2D NAU S	6" O.C. EDGE 12" O.C. FIELD
NOTE:	[0.113 X2-1/2] MAILS	
USE THE ABOVE FASTENING SCHEDU STRUCTURAL COMPOSITE LUMBER (S PARALLEL STRAND LUMBER (PSL) LA (OSL), SHALL BE FASTENED PER MFR RE DIAPHRAGM SCHEDULE FOR FLO	LE UNLESS NOTED OTHERWISE ON PLANS O CL) WHICH INCLUDES LAMINATED VENEER MINATED STRAND LUMBER (LSL) AND ORII . REQUIREMENTS. DR AND ROOF SHEATHING FASTENING REQU	R DETAILS. LUMBER (LVL), ENTED STRAND LUMBER JIREMENTS.

			REF	BAR S	CHEI	DULE				CEE:4850
			DEVEL	OPMEN	T LENG	THS - L	d			
	F'o	= 3000	PSI	1		F'e	c = 4000	PSI		
BAR	STD). Ld	CLAS	SS B	BAR	STD	. Ld	CLA	SS B	
SIZE	TYP.	TOP	TYP.	TOP	SIZE	TYP.	TOP	TYP.	TOP	
#4	15"	19"	20"	25"	#4	13"	17"	17"	23"	Ë
#5	28"	36"	37"	47"	#5	24"	31"	32"	41"	DEC
#6	33"	43"	43"	56"	#6	29"	37"	38"	49"	PRC
#7	48"	63"	63"	82"	#7	42"	54"	55"	71"	
#8	55"	72"	72"	94"	#8	48"	62"	63"	81"	₹
#9	62"	81"	81"	106"	#9	54"	70"	71"	91"	S
#10	69"	90"	90"	117"	#10	60"	78"	78"	102"	<u>⊻</u>
#11	76"	98"	98"	128"	#11	66"	85"	86"	111"	ō
			S	TANDA	RD HOO	OKS				≽
1.1	F	c =3000	PSI			F	c =4000 l	PSI	unate l'	SSI
BAR	Ldb	HOO	K DIMENS	SIONS	BAR	Ldb	HOO	K DIMEN	SIONS	μ
SIZE	Lun	"A"	"B"	"C"	SIZE	Lun	"A"	"B"	"C"	≧
#4	6"	2-1/2"	6"	2"	#4	6"	2-1/2"	6"	2"	5
#5	10"	2-1/2"	7-1/2"	2-1/2"	#5	9"	2-1/2"	7-1/2"	2-1/2"	뿌
#6	12"	3"	9"	3"	#6	10"	3"	9"	3"	Ē
#7	14"	3-1/2"	10-1/2"	3-1/2"	#7	12"	3-1/2"	10-1/2"	3-1/2"	
#8	16"	4"	12"	4"	#8	14"	4"	12"	4"	
#9	18"	4-1/2"	13-1/2"	5-5/8"	#9	15"	4-1/2"	13-1/2"	5-5/8"	
#10	20"	5"	15"	6-1/4"	#10	17"	5"	15"	6-1/4"	
#11	22"	5-1/2"	16-1/2"	6-7/8"	#11	19"	5-1/2"	16-1/2"	6-7/8"	
	180 I	DEGREE	HOOK			90 D	EGREE H	IOOK		
US	THE AL	BOVE TA	A -		Callor	RWISE O	LdhN PLANS	OR DETA	→ B →	

		Material	lakeotf			
Category	Family and Type	Material: Name	Material: Area	Material: Volume	Material: Unit weight	Count
Floors	Floor: 5" Concrete	Concrete, Cast-in-Place	4320 SF	1799.92 CF	150.28 lb/ft ³	1
Walls	Basic Wall: Retaining - 12" Concrete	Concrete, Cast-in-Place	811 SF	810.66 CF	150.28 lb/ft ³	1
Floors	Floor: 5" Concrete	Concrete, Cast-in-Place	1799 SF	749.64 CF	150.28 lb/ft ³	1
Structural Foundations	Wall Foundation: Bearing	Concrete, Cast-in-Place	1382 SF	603.00 CF	150.28 lb/ft ³	1
Walls	Basic Wall: Retaining -	Concrete, Cast-in-Place	475 SF	468.32 CF	150.28 lb/ft ³	1
Structural	Wall Foundation: Bearing	Concrete, Cast-in-Place	805 SF	348.31 CF	150.28 lb/ft ³	1
Floors	Floor: 5" Concrete	Concrete, Cast-in-Place	379 SF	157.73 CF	150.28 lb/ft ³	1
Walls	Basic Wall: Retaining -	Concrete, Cast-in-Place	125 SF	119.84 CF	150.28 lb/ft ³	1
Floors	Floor: 5" Concrete	gray Concrete, Cast-in-Place	273 SF	113.75 CF	150.28 lb/ft ³	1
Walls	Basic Wall: Exterior - 8"	gray Concrete, Cast-in-Place	170 SF	113.54 CF	150.28 lb/ft ³	1
Walls	Concrete Basic Wall: Exterior - 8"	gray Concrete, Cast-in-Place	147 SF	97.88 CF	150.28 lb/ft ³	1
Structural	Concrete Wall Foundation: Bearing	gray Concrete, Cast-in-Place	352 SF	94.99 CF	150.28 lb/ft ³	1
Foundations Structural	Footing - 36" x 12" Wall Foundation: Bearing	gray Concrete, Cast-in-Place	218 SF	89.49 CF	150.28 lb/ft ³	1
Foundations Structural	Footing - 90" x 12" Wall Foundation: Bearing	gray Concrete, Cast-in-Place	312 SF	83.90 CF	150.28 lb/ft ³	1
Foundations Walls	Footing - 36" x 12" Basic Wall: Retaining -	gray Concrete, Cast-in-Place	81 SF	80.99 CF	150.28 lb/ft ³	1
Walls	12" Concrete Basic Wall: Exterior - 8"	gray	117 SF	77 97 CF	150.28 lb/ft ³	1
Structural	Concrete	gray	244 SE	65 50 CE	150.28 lb/ft ³	
Foundations	Footing - 36" x 12"	gray	244 OF	60.16 CF	150.28 lb/ft	1
Foundations	Footing - 90" x 12"	gray	151 SF	60.16 CF	150.28 lb/lt ^a	1
Floors	Floor: 5" Concrete	Concrete, Cast-in-Place gray	86 SF	35.76 CF	150.28 lb/ft ³	1
Walls	Basic Wall: Exterior - 8" Concrete	Concrete, Cast-in-Place gray	35 SF	23.33 CF	150.28 lb/ft ³	1
Structural Foundations	Wall Foundation: Bearing Footing - 36" x 12"	Concrete, Cast-in-Place gray	77 SF	20.00 CF	150.28 lb/ft ³	1
Structural Foundations	Wall Foundation: Bearing Footing - 36" x 12"	Concrete, Cast-in-Place gray	69 SF	17.54 CF	150.28 lb/ft ³	1
Walls	Basic Wall: Exterior - 8" Concrete	Concrete, Cast-in-Place gray	23 SF	15.66 CF	150.28 lb/ft ³	1
Structural Foundations	Wall Foundation: Bearing Footing - 36" x 12"	Concrete, Cast-in-Place gray	37 SF	8.00 CF	150.28 lb/ft ³	2
Walls	Basic Wall: Exterior - 8" Concrete	Concrete, Cast-in-Place gray	5 SF	3.11 CF	150.28 lb/ft ³	2
Concrete, Cast-in-Place g		Matal Davi	12492 SF	6058.99 CF	400.00 11 /02	27
	1.5" Roof Metal Deck		1332 5F	100.00 CF		1
	1.5" Roof Metal Deck	IVIETAI DECK	452 SF	56.46 CF	490.06 ID/π°	1
vietal Deck Structural Columns	HSS-Hollow Structural	Steel ASTM A500. Grade	1784 SF 68 SF	1.64 CF	490.00 lb/ft ³	2
	Section-Column: HSS6X6X5/8	B, Rectangular and Square				-
Structural Columns	HSS-Hollow Structural Section-Column: HSS4X4X1/4	Steel ASTM A500, Grade B, Rectangular and Square	88 SF	0.85 CF	490.00 lb/ft ³	2
Structural Columns	HSS-Hollow Structural Section-Column: HSS4X4X1/4	Steel ASTM A500, Grade B, Rectangular and Square	44 SF	0.42 CF	490.00 lb/ft ³	1
Structural Columns	HSS-Hollow Structural Section-Column: HSS4X4X1/4	Steel ASTM A500, Grade B, Rectangular and Square	42 SF	0.41 CF	490.00 lb/ft ³	1
Structural Columns	HSS-Hollow Structural Section-Column: HSS4X4X1/4	Steel ASTM A500, Grade B, Rectangular and Square	83 SF	0.80 CF	490.00 lb/ft ³	2
Structural Columns	HSS-Hollow Structural Section-Column:	Steel ASTM A500, Grade B, Rectangular and	39 SF	0.38 CF	490.00 lb/ft ³	1

		Material	Takeoff				EE:48	02/20			
Category	Family and Type	Material: Name	Material: Area	Material: Volume	Material: Unit weight	Count	ö	12/	i i	2	
tructural Columns	HSS-Hollow Structural Section-Column: HSS4X4X1/4	Steel ASTM A500, Grade B, Rectangular and Square	76 SF	0.73 CF	490.00 lb/ft ³	2			LIIC LIIC	2 2 2	
tructural Columns	HSS-Hollow Structural Section-Column: HSS4X4X1/4	Steel ASTM A500, Grade B, Rectangular and Square	38 SF	0.36 CF	490.00 lb/ft ³	1	icT:		Ň		
tructural Columns	HSS-Hollow Structural Section-Column:	Steel ASTM A500, Grade B, Rectangular and Square	37 SF	0.53 CF	490.00 lb/ft ³	2	PROJE	DATF			KEVIS
tructural Columns	HSS-Hollow Structural Section-Column: HSS3X3X3/8	Steel ASTM A500, Grade B, Rectangular and Square	34 SF	0.50 CF	490.00 lb/ft ³	2		ERING	R FOR THE SCIENCES	APITOL ST OWA 52242	19.335.5647 19.335.5660 @uliowa.edu
tructural Columns	ClarkDietrich-SFIA-S-Colu mn: 600S162-68(50)	Steel ASTM A500, Grade B, Rectangular and	263 SF	0.78 CF	490.00 lb/ft ³	9	ΝΤΥ ΟΙ	NGINE	NS CENTE ARTS AND	103 S C WA CITY, I	PHONE: 3 FAX: 3 civil-hawks
tructural Columns	ClarkDietrich-SFIA-S-Colu mn: 600S162-68(50)	Steel ASTM A500, Grade B, Rectangular and Square	442 SF	1.30 CF	490.00 lb/ft ³	16	JNIVERS	ENTAL E	4105 SEAMA	2	EMAIL:
tructural Columns	ClarkDietrich-SFIA-S-Colu mn: 600S162-68(50)	Steel ASTM A500, Grade B, Rectangular and Square	450 SF	1.33 CF	490.00 lb/ft ³	18	THE	RONMI	ũ		
tructural Columns	ClarkDietrich-SFIA-S-Colu mn: 600S162-68(50)	Steel ASTM A500, Grade B, Rectangular and Square	205 SF	0.61 CF	490.00 lb/ft ³	11		ENVII			
tructural Columns	ClarkDietrich-SFIA-S-Colu mn: 600S162-68(50)	Steel ASTM A500, Grade B, Rectangular and Square	659 SF	1.94 CF	490.00 lb/ft ³	37		/IL ANI			
tructural Columns	ClarkDietrich-SFIA-S-Colu mn: 600S162-68(50)	Steel ASTM A500, Grade B, Rectangular and Square	40 SF	0.12 CF	490.00 lb/ft ³	3		U U			
tructural Columns	ClarkDietrich-SFIA-S-Colu mn: 600S162-68(50)	Steel ASTM A500, Grade B, Rectangular and Square	45 SF	0.13 CF	490.00 lb/ft ³	5					
tructural Columns	ClarkDietrich-SFIA-S-Colu mn: 600S162-68(50)	Steel ASTM A500, Grade B, Rectangular and Square	188 SF	0.55 CF	490.00 lb/ft ³	30			2		i
tructural Columns	ClarkDietrich-SFIA-S-Colu mn: 600S162-68(50)	Steel ASTM A500, Grade B, Rectangular and Square	32 SF	0.09 CF	490.00 lb/ft ³	22		EDU FOR	CATIO CONS	VAL - N FRUCT	NOT TION
eel ASTM A500, Grade B	8, Rectangular and Square		2873 SF	13.49 CF		167					
tructural Framing	W Shapes: W12X26	Steel ASTM A992	203 SF	2.61 CF	490.00 lb/ft ³	2					
tructural Framing	W Shapes: W12X26	Steel ASTM A992	100 SF	1.29 CF	490.00 lb/ft ³	1					
tructural Framing	W Shapes: W12X26	Steel ASTM A992	97 SF	1.25 CF	490.00 lb/ft ³	1					
tructural Framing	W Shapes: W12X26	Steel AS IM A992	187 SF	2.41 CF	490.00 lb/ft ³	2					
tructural Framing	W Shapes: W12X26	Steel ASTM A992	146 SF	1.88 CF	490.00 lb/ft ³	2		L			
tructural Framing	W Shapes: W12X26	Steel ASTM A992	140 SF	1.80 CF	490.00 lb/ft ³	2		Ð			
tructural Framing	W Shapes: W12X26	Steel ASTM A992	40 SF	0.52 CF	490.00 lb/ft ³	1		H			
tructural Framing	W Shapes: W12X26	Steel ASTM A992	24 SF	0.31 CF	490.00 lb/ft3	1		Р			
tructural Framing	ClarkDietrich-SFIA-T-Hori zontal: 600T125-68(50)	Steel ASTM A992	74 SF	0.22 CF	490.00 lb/ft ³	2	(ٽ د			_
tructural Framing	zontal: 600T125-68(50)	Steel ASTIM A992	133 SF	0.39 CF	490.00 lb/lt ⁻	4	,	<u>ē</u>			2310
tructural Framing	ClarkDietrich-SFIA-T-Hori zontal: 600T125-68(50)	Steel ASTM A992	63 SF	0.19 CF	490.00 lb/ft ³	2		Icat			llo, IA 5
tructural Framing	zontal: 600T125-68(50)	Steel ASTM A992	283 SF	0.83 CF	490.00 lb/ft ³	12		Ъ			ntice
tructural Framing	ClarkDietrich-SFIA-T-Hori zontal: 600T125-68(50)	Steel ASTM A992	64 SF	0.19 CF	490.00 lb/ft ³	4		а Ш		SIIVene	ageous St., Mo
tructural Framing	zontal: 600T125-68(50)	Steel AS I M A992	41 SF	0.12 CF	490.00 lb/π ³	3		n			90th
tructural Framing	ClarkDietrich-SFIA-T-Hori zontal: 600T125-68(50)	Steel ASTM A992	160 SF	0.47 CF	490.00 lb/ft ³	15	-	Sult		ampe	12007 1
tructural Framing	zontal: 600T125-68(50)	Steel AS I M A992	13 SF	0.04 CF	490.00 lb/tt3	2				0	
eel ASTM A992			1768 SF	14.51 CF		56					
							SHEE	TN/	ME	0	
							ia Sc	iui shc	es edu	a Iles	5

SHEET NO.

Wall Footing Schedule									
Mark	Width	Length	Volume	Туре					
F1	3' - 0"	2' - 0"	4.00 CF	Bearing Footing - 36" x 12"					
F2	3' - 0"	8' - 0 5/8"	17.54 CF	Bearing Footing - 36" x 12"					
F3	3' - 0"	11' - 4"	20.00 CF	Bearing Footing - 36" x 12"					
F4	3' - 0"	34' - 9"	65.50 CF	Bearing Footing - 36" x 12"					
F5	3' - 0"	43' - 3 3/8"	83.90 CF	Bearing Footing - 36" x 12"					
F6	3' - 0"	50' - 0"	94.99 CF	Bearing Footing - 36" x 12"					
F7	7' - 6"	8' - 0 5/8"	60.16 CF	Bearing Footing - 90" x 12"					
F8	7' - 6"	11' - 11 1/4"	89.49 CF	Bearing Footing - 90" x 12"					
F9	7' - 6"	46' - 5 5/8"	348.31 CF	Bearing Footing - 90" x 12"					
F10	7' - 6"	80' - 5"	603.00 CF	Bearing Footing - 90" x 12"					

Structural Column Schedule			
Mark Type			
C1	HSS3X3X3/8		
C2	HSS4X4X1/4		
C3	600S162-68(50)		
C4	HSS6X6X5/8		

	Wall For	undation Sche	dule	
Mark	Туре	Width	Length	Volum
W1	Exterior - 8" Concrete	0' - 8"	0' - 8"	1.56 CF
W2	Exterior - 8" Concrete	0' - 8"	7' - 6 5/8"	15.66 C
W3	Exterior - 8" Concrete	0' - 8"	32' - 9"	77.97 C
W4	Exterior - 8" Concrete	0' - 8"	49' - 6"	113.54 (
W5	Exterior - 8" Concrete	0' - 8"	10' - 0"	23.33 C
W6	Exterior - 8" Concrete	0' - 8"	41' - 11 3/8"	97.88 C
W7	Retaining - 12" Concrete	1' - 0"	8' - 0 3/8"	80.99 C
W8	Retaining - 12" Concrete	1' - 0"	11' - 11"	119.84 (
W9	Retaining - 12" Concrete	1' - 0"	46' - 5 3/8"	468.32 (
W10	Retaining - 12" Concrete	1' - 0"	80' - 4 3/4"	810.66 (

$\otimes^{\mathbf{V}}$	CEE:4850	12/07/2021	UIS Engineering, Inc.		
	PROJECT:	DATE :	DRAWN BY:	REVISION:	
	THE UNIVERSITY OF IOWA	IL AND ENVIRONMENTAL ENGINEERING	4105 SEAMANS CENTER FOR THE ENGINEERING ARTS AND SCIENCES	103 S CAPITOL ST IOWA CITY, IOWA 52242	PHONE: 319.335.5647 FAX: 319.335.5660 EMAIL: civil-hawks@ulowa.edu
		EDUCE			T N
		Cultural Education Center		Campe Courageous	12007 190th St., Monticello, IA 52310
	SHEE Fo Pla SHEE S2		^{ME} dati	on	

Schedule
Туре

CT: CEE:4850	12/07/2021	BY: UIS Engineering, Inc.	:NO			
THE UNIVERSITY OF IOWA	CIVIL AND ENVIRONMENTAL ENGINEERING	4105 SEAMANS CENTER FOR THE ENGINEERING ARTS AND SCENCES DRAWN E	103 S CAPITOL SI IOWA CITY, IOWA 52242 REVISION	PHONE: 319:355-5640 FAX: 319:355-5660 EMAIL: divih-hawks@uiowa.edu		
EDUCATIONAL - NOT FOR CONSTRUCTION						
Cultural Education Center Campe Courageous 12007 190th St., Monticello, IA 52310				12007 190th St., Monticello, IA 52310		
SHEE Fi Fr SHEE S2	rst rst am 2.1	™E Flo ning	or I Pl	an		

CEE:4850	12/07/2021	UIS Engineering, Inc.		
PROJECT:	DATE :	DRAWN BY:	REVISION:	
THE UNIVERSITY OF IOWA	CIVIL AND ENVIRONMENTAL ENGINEERING	4105 SEAMANS CENTER FOR THE ENGINEERING ARTS AND SCIENCES	103 S CAPITOL SI 10WA CITY, 10WA 52242	PHONE: 319.335.5660 FAX: 319.335.5660 EMAL: dvir-hawks@uiowa.edu
	FOR C	ONSTR	AL - NO RUCTIO	N
	Cultural Education Center		Campe Courageous	12007 190th St., Monticello, IA 52310
SHEE	T NAI	ME ina	Ar	ea

CEE:4850	12/07/2021	UIS Engineering, Inc.				
PROJECT:	DATE :	DRAWN BY:	REVISION:			
THE UNIVERSITY OF IOWA	CIVIL AND ENVIRONMENTAL ENGINEERING	4105 SEAMANS CENTER FOR THE ENGINEERING ARTS AND SCIENCES	103 5 CAPTIOL SI 10WA CITY, 10WA 522222	PHONE: 313.355.5660 FAX: 319.335.5660 EMALL: dvil-hawks@uiowa.edu		
IOVA CONL & ENVIRONMENTAL ENGINEERING						
	EDUC FOR C	ATION/	AL - NO RUCTIO	T N		
Cultural Education Center Campe Courageous 12007 190th St. Monticello, 1A, 57310				12007 190th St., Monticello, IA 52310		
SHEET NAME Exhibit Area Roof Framing Plan SHEET NO. S2.3						

TYP. EXTERIOR SEGMENTED SHEAR WALL

NOTES
1. HATCHED AREA DENOTES EXTENT OF SHEAR WALL.

- IN LIEU OF SHEAR PANEL BLOCKING, PROVIDE CONTINUOUS SHEATHING THRU FLOOR CAVITY. SHEATHING TYPE, SHEATHING THICKNESS, AND NAILING
 PATTERN(S) SHALL MATCH
 THAT REQUIRED FOR THE SHEAR WALL AT THE FLOOR BELOW, TYP.
 PROVIDE CONTINUOUS SHEATHING THRU FLOOR CAVITY. SHEATHING TYPE, SHEATHING THICKNESS, AND NAILING PATTERN(S) SHALL MATCH THAT REQUIRED FOR THE SHEAR
 WALL AT THE FLOOR BELOW, TYP.
 SHEAR PANEL BLOCKING MAY BE PROVIDED IN LIEU OF CONTINUOUS SHEATHING TO TRANSFER SHEAR WALL FORCES. SPACING/QUANTITY OF SHEAR PANELS
 BEOLUMED SHALL BEDOCKING MAY BE PROVIDED IN LIEU OF CONTINUOUS SHEATHING TO TRANSFER SHEAR WALL FORCES. SPACING/QUANTITY OF SHEAR PANELS
 BEOLUMED SHALL BE DED SCHOLD IN LIEU OF CONTINUOUS SHEATHING TO TRANSFER SHEAR WALL FORCES.
- SHEAR PAREL BLOCKNIC MARY BE PROVIDED IN LIEU OF CONTINUOUS SHEATHING TO TRAFPER SHEAR WALL FURCES. SPALING/QUANTITY OF SHEAR PARELS REQUIRED SHALL BE PER SCHEDULE
 VERTICAL POST/CHORD REQUIRED AT EACH END OF SHEAR WALL PER SHEAR WALL ANCHORAGE SCHEDULE. THE SCHEDULED POST SHALL BE PROVIDED IN ADDITIONAL TO THE VERTICAL WALL STUDS REQUIRED WITHIN THE SHEAR WALL APER SHEAR WALL ANCHORAGE SCHEDULE. THE SCHEDULED POST SHALL BE PROVIDED IN ADDITIONAL TO THE VERTICAL WALL STUDS REQUIRED WITHIN THE SHEAR WALL APER SHEAR WALL BE CONTINUOUS FROM FLOOR TO FLOOR (CRIPPLES WITHIN THE FLOOR CAVITY TO MATCH SCHEDULED SIZE OF POST, TYP.).
 FOUNDATION ANCHOR AT EACH END OF SHEAR WALL. RE: SCHEDULE

