GENERAL SITE NOTES:

THE REQUIREMENTS AND INFORMATION SET OUT BELOW ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE AND DO NOT ENCOMPASS ALL PROJECT REQUIREMENTS DESCRIBED BY THE PROJECT PLANS AND SPECIFICATIONS AND/OR APPLICABLE LAWS. REGULATIONS AND/OR BUILDING CODES.

CONSTRUCTION OF ALL PROJECT SITE IMPROVEMENTS SUBJECT TO ADA ACCESS COMPLIANCE, INCLUDING ACCESSIBLE PATH OF TRAVEL, CURB RETURNS, PARKING STALL(S) AND UNLOADING AREAS, BARRIER FREE AMENITIES AND/OR OTHER APPLICABLE SITE IMPROVEMENTS SHALL CONFORM TO THE AMERICANS WITH DISABILITIES ACT, CALIFORNIA TITLE 24, AND THE CALIFORNIA BUILDING CODE, CURRENT EDITION(S).

CONTRACTOR SHALL FIELD VERIFY ALL GRADES AND SLOPES PRIOR TO THE PLACEMENT OF CONCRETE AND/OR PAVEMENT FOR CONFORMANCE WITH ADA ACCESS COMPLIANCE REQUIREMENTS EXAMPLES OF MINIMUM AND MAXIMUM LIMITS RELATED TO ADA ACCESS COMPLIANCE INCLUDE, BUT ARE NOT LIMITED TO:

- a) ACCESSIBLE PATH OF TRAVEL CROSS-SLOPE SHALL NOT EXCEED 2%
- b) ACCESSIBLE PATH OF TRAVEL LONGITUDINAL SLOPES SHALL NOT EXCEED 5%
- RAMP LONGITUDINAL SLOPES SHALL NOT EXCEED 8.33%
- d) WALKS SHALL NOT HAVE LESS THAN 48 INCHES IN UNOBSTRUCTED WIDTH
- e) ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION
- f) LANDINGS AT THE TOP AND BOTTOM OF ACCESSIBLE RAMPS SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION
- g) GUTTERS AND ROAD SURFACES DIRECTLY ADJACENT TO AND WITHIN 2 FEET OF A CURB RAMP SHALL HAVE A COUNTER SLOPE NOT TO EXCEED 5%
- h) OPEN PAVED PLAY AREAS SHALL NOT EXCEED 2% IN ANY DIRECTION

CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER OF RECORD, IDENTIFIED BY THE PROFESSIONAL ENGINEERING SEAL AND SIGNATURE ON THESE PLANS, OF ANY SITE CONDITION(S) AND/OR DESIGN INFORMATION THAT PREVENTS THE CONTRACTOR FROM COMPLYING WITH THE LAWS, REGULATIONS AND/OR BUILDING CODES GOVERNING ADA ACCESS COMPLIANCE.

- DRAINAGE SHALL NOT BE ALLOWED ONTO ADJACENT PROPERTY. ALL FILL MATERIAL USED SHALL BE PLACED IN COMPLIANCE WITH
- THE PROJECT SPECIFICATIONS. A SOILS COMPACTION REPORT SHALL BE SUBMITTED TO THE ENGINEER OF RECORD AS REQUIRED BY THE PROJECT SPECIFICATIONS.
- THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES AS REQUIRED BY THE PROJECT SPECIFICATIONS, AND BY GOVERNING PUBLIC AGENCIES.
- THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES PRIOR TO START OF ANY WORK.
- CONTRACTOR SHALL NOTIFY THE SCHOOL DISTRICT TO TURN OFF IRRIGATION A MINIMUM OF 2 DAYS PRIOR TO STARTING WORK. CONTRACTOR SHALL COORDINATE WITH THE SCHOOL DISTRICT THROUGHOUT THE COURSE OF THE PROJECT FOR WATERING AND NON-WATERING TIMES. CONTRACTOR SHALL NOTIFY THE DISTRICT AS SOON AS WORK IS COMPLETED TO THE POINT WHERE IRRIGATION SYSTEMS MAY BE TURNED BACK ON.
- ENSURE THAT ALL EXISTING STRIPING IS NOT VISIBLE AFTER APPLYING SEAL COAT AND PRIOR TO RESTRIPING AND REPAINTING. OTHERWISE, ADDITIONAL SEAL COAT APPLICATION MAY BE REQUIRED.
- PRIOR TO ACCEPTANCE OF NEW PAVING AND APPLICATION OF SEAL 10. COAT AND/OR STRIPING, THE CONTRACTOR SHALL COMPLETE A WATER TEST OF THE NEW PAVEMENT WITH THE ENGINEER OR RECORD PRESENT TO VERIFY THAT NO LOW SPOTS OR "BIRD BATHS" ARE PRESENT, PER THE PROJECT SPECIFICATIONS.
- LAYOUT ALL PAVEMENT MARKINGS TO MATCH EXISTING UNLESS 11. NOTED OTHERWISE ON PLANS.
- 12. PAINT ALL CURBS AND WHEELSTOPS TO MATCH EXISTING WITHIN PROJECT LIMITS, UNLESS SHOWN OTHERWISE ON THE PLANS
- 13. ALL CONCRETE SHALL HAVE WEAKENED PLANE JOINTS AT 10 FEET OR LESS ON CENTER AND ONE HALF INCH PREMOLDED EXPANSION JOINTS AT 30 FEET OR LESS MINIMUM. MATCH EXISTING SCORE PATTERN DIMENSIONS ON ALL CONCRETE WALKS AND PAVEMENT.
- 14. NO CONCRETE MAY BE POURED UNTIL ALL FORMS AND REINFORCEMENTS HAVE BEEN REVIEWED AND APPROVED BY THE PROJECT INSPECTOR.
- REPLACE ALL DAMAGED TURF AND IRRIGATION FACILITIES 15. RESULTING FROM THE WORK REQUIRED.
- ADJUST ALL UTILITY LIDS TO FINISHED GRADE WITHIN 16. CONSTRUCTION AREA PER DETAIL [E/X100] UNLESS NOTED OTHERWISE. REMOVE AND REPLACE ALL BROKEN OR DAMAGED LIDS AND BOXES. ALL LIDS WITHIN TRAFFIC AREAS SHALL BE TRAFFIC RATED.
- 17. ANY EXISTING UTILITIES AND/OR IMPROVEMENTS WHICH ARE TO REMAIN, THAT BECOME DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED TO THE SATISFACTION OF THE OWNER AND AGENCY HAVING AUTHORITY, AT THE CONTRACTOR'S SOLE EXPENSE.
- 18. ANY EXISTING UTILITIES AND/OR IMPROVEMENTS THAT BECOME DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED TO THE SATISFACTION OF THE OWNER AND AGENCY HAVING AUTHORITY, AT THE CONTRACTOR'S SOLE EXPENSE.
- 19. CONTRACTOR TO MATCH EXISTING PAVEMENT GRADE AT ALL NEW PAVEMENT LOCATIONS UNLESS NOTED OTHERWISE ON THE PLANS.
- ASPHALT CONCRETE REMOVAL AND REPLACEMENT LIMITS SHOWN 20. ARE APPROXIMATE AND ARE BASED ON PAVEMENT CONDITIONS OBSERVED DURING A PRE-DESIGN SITE REVIEW. ADJUST LOCATIONS AND LIMITS AS REQUIRED BY ACTUAL FIELD CONDITIONS OR AS DIRECTED BY THE ENGINEER.
- INSTALL DOWELED CONNECTION AT JOINT OF NEW CONCRETE TO 21. EXISTING CONCRETE PER DETAIL [D/X100]

GENERAL NOTES:

- 1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THESE CONSTRUCTION DRAWINGS. THE CONTRACT SPECIFICATIONS AND, WHERE APPLICABLE, THE CITY STANDARDS AND THE STATE OF CALIFORNIA STANDARD SPECIFICATIONS.
- 2. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE SCHOOL DISTRICT'S USE OF THE FACILITIES AND OTHER CONTRACTORS WHO MAY BE DOING CONSTRUCTION WITHIN THE PROJECT SITE.
- 3. THE CONTRACTOR SHALL CONTACT DISTRICT OFFICIALS FOR DETERMINATION OF DEPTH AND LOCATION OF UNDERGROUND UTILITIES PRIOR TO EXCAVATION IN THE PROJECT SITE.
- 4. BEFORE COMMENCING WORK. THE CONTRACTOR SHALL NOTIFY ALL UTILITY AUTHORITIES OR UTILITY COMPANIES HAVING POSSIBLE INTEREST IN THE WORK OF THE CONTRACTOR'S INTENTION TO EXCAVATE PROXIMATE TO EXISTING FACILITIES AND THE CONTRACTOR SHALL VERIFY THE LOCATION OF ANY UTILITIES IN THE WORK AREA, NOTIFY U.S.A. AT 1(800) 642-2444, TWO (2) DAYS PRIOR TO EXCAVATION.
- ALL CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE MOST CURRENT CALIFORNIA BUILDING CODE (CBC).
- 6. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
- 7. A "DSA CERTIFIED" CLASS 3 PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.
- 8. A DSA- ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
- 9. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION SHALL BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK (SECTION 4-317(C), PART 1, TITLE 24, CCR).
- 10. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND EMERGENCY ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

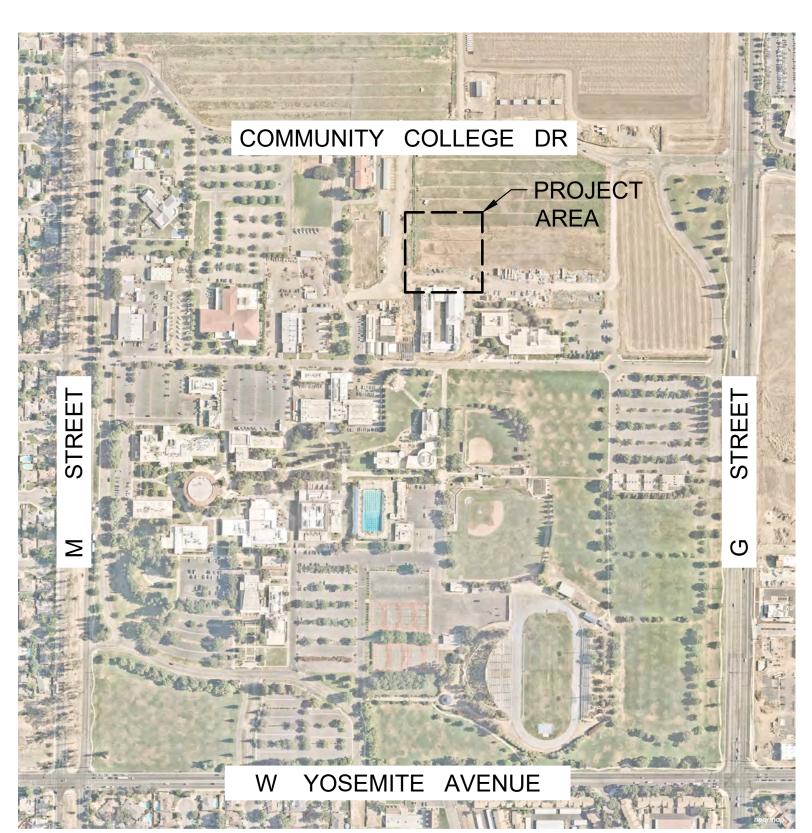
GENERAL DEMOLITION NOTES:

- THE "LIMIT OF DEMOLITION" SHOWN IS APPROXIMATE AND IS GENERALLY CONSIDERED TO BE THE MINIMUM REMOVAL REQUIREMENTS. CONTRACTOR MUST COORDINATE AS NOTED IN THE LEGEND.
- CONTRACTOR SHALL LEGALLY DISPOSE OF ALL DEMOLISHED MATERIALS OFF SITE. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITY IMPROVEMENTS NOT

SPECIFICALLY DESIGNATED FOR REMOVAL.

- THE ON-SITE UNDERGROUND UTILITIES SHOWN ON THIS SHEET ARE AT APPROXIMATE LOCATIONS. THE EXTENT, LOCATIONS AND SIZES ARE UNKNOWN. THE CONTRACTOR SHALL POTHOLE TO LOCATE AND VERIFY THE UNDERGROUND UTILITY LINES PRIOR TO REMOVAL.
- CONTRACTOR TO PROTECT AND PRESERVE IN PLACE ANY FOUND SURVEY 5. MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE RESET BY A CALIFORNIA LICENSED SURVEYOR AND THE APPROPRIATE PAPERWORK FILED WITH THE CITY OR COUNTY, AT CONTRACTOR'S EXPENSE.
- ALL HAZARDOUS MATERIALS ENCOUNTERED DURING SITE DEMOLITION SHALL BE REMEDIATED AND DISPOSED OF PER STATE AND EPA REQUIREMENTS.
- REMOVE EXISTING IMPROVEMENTS AS NECESSARY TO CONSTRUCT NEW IMPROVEMENTS SHOWN ON THESE PLANS.
- a) FOR CONCRETE REMOVAL. REMOVE TO THE NEXT NEAREST TOOLED JOINT OR EXPANSION JOINT OF IMPROVEMENTS DESIGNATED TO REMAIN.
- b) FOR ASPHALTIC PAVEMENT REMOVAL. SAWCUT TO A STRAIGHT, CLEAN EDGE AT LOCATIONS INDICATED ON THE PLANS.

MERCED COLLEGE GREENHOUSE COMPLEX GREENHOUSE COMPLEX





SITE ADDRESS

MERCED COLLEGE 3600 M STREET MERCED, CA. 95348

PROJECT CONTACTS:

MARCUS METCALF

3600 M STREET

MERCED CA 95348

CLOVIS, CA 93612

3562 EMPLEO ST.

PHONE: (209) 384-6000

BLAIR, CHURCH & FLYNN

CONSULTING ENGINEERS

PHONE: (559) 326-1400

THOMA ELECTRIC, INC.

PHONE: (805) 543-3850

451 CLOVIS AVE., SUITE 200

SAN LUIS OBISPO, CA 93406

SR. DIRECTOR OF CAPITAL

PROJECTS AND FACILITIES

OWNER:

CIVIL ENGINEER:

ELECTRICAL ENGINEER:

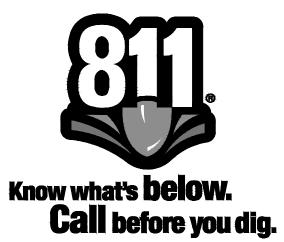
SCO

1. CONSTRUCTION OF NEW GREENHOUSE COMPLEX INCLUDING: THREE GREENHOUES. TWO LOAFING BARNS. ONE STORAGE SHED, AND ONE DSA PRE-CHECKED SHADE CANOPY

2022 CALIFORNIA BUILDING CODE, TITLE 24, PART 2, CCR

OF WORK: 1. INSTALL OWNER PROVIDED GREENHOUSES. 2. SITE UTILITIES WILL BE PROVIDED UNDER A SEPARATE CONTRACT UP TO 5 FEET OF THE EXTERIOR OF THE GREENHOUSE BUILDINGS. THE GREENHOUSE CONTRACTOR IS RESPONSIBLE FOR MAKING UTILITY CONNECTIONS TO THE BUILDING. 3. ALL UTILITIES AND EQUIPMENT WITHIN THE GREENHOUSE BUILDING FOOTRPINTS SHALL BE PROVIDED BY THE GREENHOUSE CONTTACTOR.









FOR DSA USE ONLY DSA APP# 02-121754

PE OF WORK:

APPLICABLE CODES:

2022 CALIFORNIA ADMIN. CODE, TITLE 24, PART 1, CCR

GREENHOUSE CONTRACTOR SCOPE

GREENHOUSE BID ALTERNATE SCOPE OF WORK:

1. INSTALLATION OF "GREENHOUSE 3" AND ALL ASSOCIATED EQUIPMENT AND UTILITIES WITHIN THE FOOTPRINT OF GREENHOUSE 3.

CONSULTANT

Blair, Church & Flyn

Consulting Engineers

451 Clovis Avenue,

Clovis, California 93612

Tel (559) 326-1400

Fax (559) 326-1500

Suite 200

REF. & REV.

CUUU	COVER SHEET
C100	ACCESS COMPLIANCE PLAN
C101	TOPOGRAPHIC SURVEY LEGEND
C102	TOPOGRAPHIC SURVEY
C103	DEMOLITION PLAN
C104	SITE PLAN & HORIZONTAL CONTROL
C105	GRADING AND DRAINAGE PLAN
C106	UTILITY PLAN
X100	SITE DETAILS
X200	UTILITY DETAILS
X201	UTILITY DETAILS
7201	
ARCHITECTURAL	
A100	MAIN GREENHOUSE FLOOR & FOUNDATION PLANS
A101	MAIN GREENHOUSE REFLECTED CEILING PLAN
A102	MAIN GREENHOUSE ELEVATIONS & SECTION
A200	SMALL GREENHOUSE FOUNDATION & FLOOR
7200	& CEILING PLANS
A201	SMALL GREENHOUSE ELEVATIONS & SECTIONS
A300	AG STORAGE FOUNDATION & FLOOR & CEILING PLANS
A301	AG STORAGE ELEVATIONS & SECTION
A400	POTTING SHADE FLOOR & FOUNDATION PLAN
	POTTING SHADE CEILING PLAN
A401	
A402	POTTING SHADE ELEVATION & SECTION
A500	LOAFING BARN FOUNDATION & FLOOR & CEILING PLANS
A501	LOAFING BARN ELEVATIONS & SECTION
A600	FOUNDATION DETAILS
ELECTRICAL	
E-001	ELECTRICAL SYMBOLS LEGEND & GENERAL NOTES
E-002	ELECTRICAL SINGLE LINE DIAGRAM
E-003	PANEL SCHEDULES
E-004	
E-101	
E-201	AG STORAGE LIGHTING PLAN
E-202	GREENHOUSE 1 & 2 LIGHTING PLANS
E-203	MAIN GREENHOUSE LIGHTING PLANS
E-204	LOAFING BARN LIGHTING PLAN
E-205	POTTING SHADE LIGHTING PLAN
E-301	AG STORAGE POWER PLAN
E-302	GREENHOUSE 1 & 2 POWER PLANS
E-303	MAIN GREENHOUSE POWER PLAN
E-304	LOAFING BARNS POWER PLAN
E-305	POTTING SHADE POWER PLAN
E-401	ELECTRICAL DETAILS
DSA PRE-CHECK SHAD	E STRUCTURE
LS1.0	GENERAL INFO
LS1.1	GENERAL INFO
LS1.2	DSA 103
LS1.2 LS1.3	DSA 103
LS1.0	FOUNDATION PLAN
LS4.0	FRAMING AND CONNECTION DETAILS
L34.1 LS4.2	
	MULTI RIB ROOFING PLAN
LS4.3	MEGA RIB ROOFING PLAN
LS4.4	STANDING SEAM ROOFING PLAN
LS5.0	OPTIONAL ELECTRICAL ACCESS
TOTAL SHEET CO	DUNT: 50
MERCED COLLEGE	E GREENHOUSE COMPLEX

TABLE OF CONTENTS

COVER SHEET

SHEET TITLE

SHEET NUMBER

C000

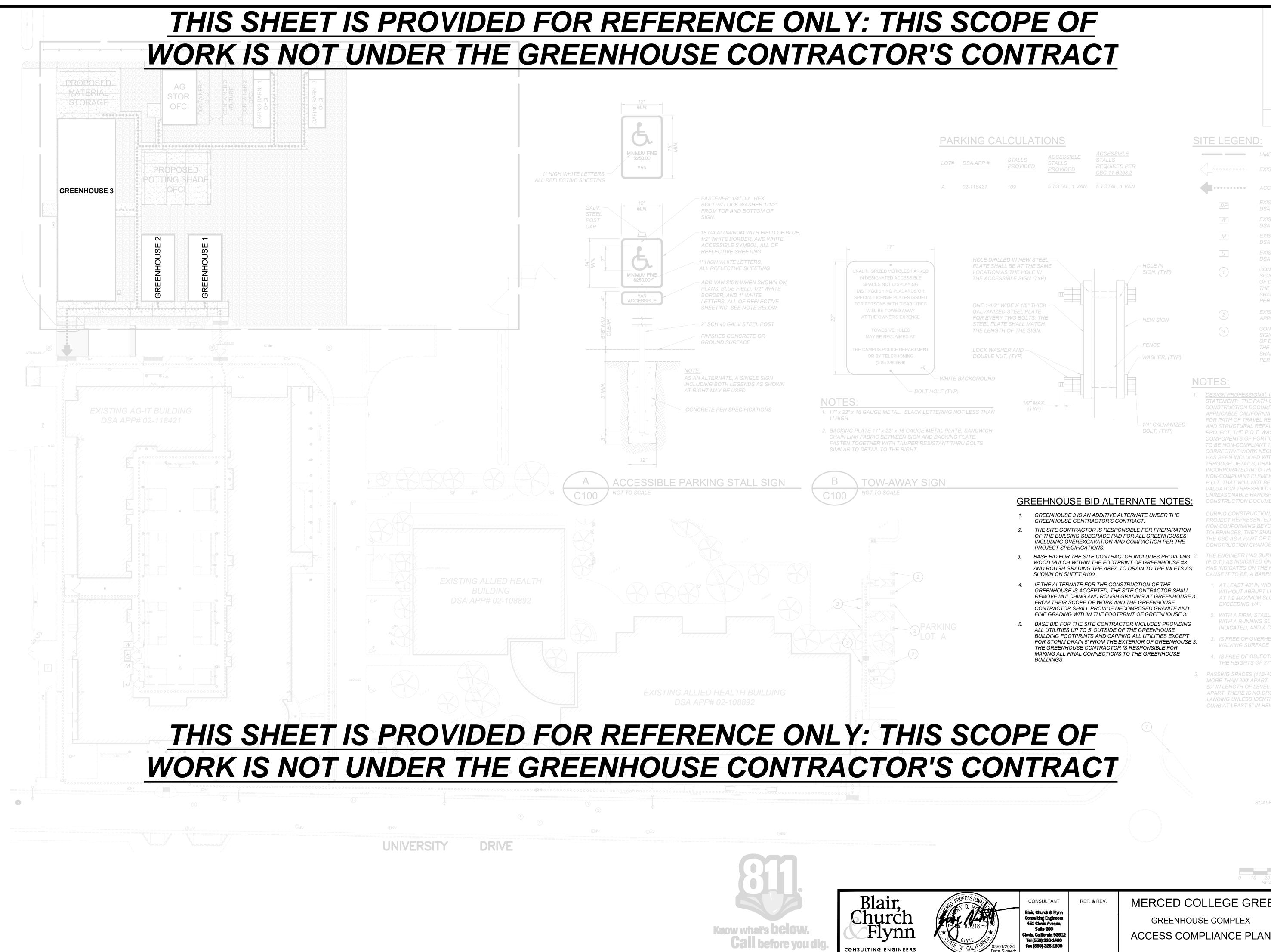
<u>CIVIL</u>

C000

COVER SHEET

GREENHOUSE COMPLEX

CONST. DOCUMENTS DR. BY: <u>AH</u> CH. BY: DATE: 03/01/2024 SCALE AS NOTED

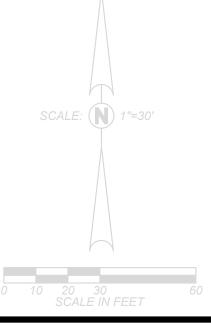


DSA APP# 02-121754

- THE SITE CONTRACTOR IS RESPONSIBLE FOR PREPARATION OF THE BUILDING SUBGRADE PAD FOR ALL GREENHOUSES
- BASE BID FOR THE SITE CONTRACTOR INCLUDES PROVIDING WOOD MULCH WITHIN THE FOOTPRINT OF GREENHOUSE #3 AND ROUGH GRADING THE AREA TO DRAIN TO THE INLETS AS
- REMOVE MULCHING AND ROUGH GRADING AT GREENHOUSE .
- FOR STORM DRAIN 5' FROM THE EXTERIOR OF GREENHOUSE 3

SITE LEGEND

NOTES



MERCED COLLEGE GREENHOUSE COMPLEX

GREENHOUSE COMPLEX

DR. BY CH. BY: DATE:

CONST. DOCUMENTS C100 03/01/2024

SCALE AS NOTED

GENERAL TOPOGRAPHIC SURVEY LEGEND:

(NOT ALL SYMBOLS SHOWN APPEAR ON THE PLANS)

		I LLGLIND.	
LL SYMB	OLS SHOWN APPEAR ON THE PLANS)	NPTH	NON-POTABLE TRENCH
AB	ABUTMENT	PA	PATIO
AC	ASPHALTIC CONCRETE	PGTH	PROPANE GAS TRENCH
ACE	ASPHALTIC CONCRETE EDGE	POS	POINT ON SLOPE
AD	ASPHALTIC CONCRETE DIKE	RCP	REINFORCED CONCRET
AWT	ALL-WEATHER TRACK	RIEL	RIPARIAN EDGE OF LAK
BD	BRIDGE DECK	RIEP	RIPARIAN EDGE OF PON
BFC	BOTTOM FACE OF CURB	RIES	RIPARIAN EDGE OF STR
BGST	STEPS	RIEW	RIPARIAN EDGE OF WE
BGTR	TOP OF ROOF	RIFL	RIPARIAN FLOWLINE
BGV	BUILDING VENTS	RIMC	RIPARIAN MISC.
BOD	BOTTOM OF DITCH	RIP	RIP-RAP SLOPE PROTE
BR	BARRICADE	RK	ROCK
BRK	BRICK	RW	RETAINING WALL
BW	BARRIER WALL	SB	SPEED BUMP
СВ	CATCH BASIN	SDCD	STORM DRAIN CROSS D
CDA	CONCRETE DRIVE APPROACH	SDFL	STORM DRAIN FLOWLIN
CE	CONCRETE EDGE	SDGR	STORM DRAIN GRATE
CMP	CORRUGATED METAL PIPE	SDMG	STORM DRAIN MANHOL
CON	CONCRETE	SSFL	SEWER FLOWLINE
сотн	COMMUNICATION TRENCH	SDTH	STORM DRAIN TRENCH
CR	CROWN OF ROAD	SSGT	STORM DRAIN GREASE
CRQ	QUARTER CROWN	SSST	SEWER TANK (SEPTIC)
CS	CONCRETE SLAB	SSTH	SEWER TRENCH
CULV	CULVERT	SWK	SIDEWALK
CW	CONCRETE WALL	SWL	SWALE
DD	DOWN DRAIN	ТВС	TOP BACK OF CURB
DFL	DITCH FLOWLINE	TBW	TOP BACK OF WALK
DWY	DRIVEWAY	TF	TOP OF FOOTING
ECTH	ELECTRICAL TRENCH	TFC	TOP FACE OF CURB
EDR	EDGE OF DIRT ROAD	TFW	TOP FACE OF WALK
EGR	EDGE OF GRAVEL ROAD	TLTH	TELEPHONE TRENCH
EOD	EDGE OF OILED DIRT	ТОВ	TOP OF BANK
EP	EDGE OF PAVEMENT	TOE	TOE OF SLOPE
	EDGE OF SHOULDER	ТОР	TOP OF SLOPE
ES		TRDO	TRUNCATED DOMES
ET	EDGE OF TRAVELED WAY FINISH FLOOR	түтн	TV TRENCH
FF	FIBER OPTIC TRENCH	TW	TOP OF WALL
FOTH		UTH	UNIDENTIFIED TRENCH/
GB	GRADE BREAK	VGFL	VALLEY GUTTER FLOWL
GFL	GUTTER FLOWLINE	VGR	VALLEY GUTTER
GRA	GRAVEL SPOT SHOT	WALBA	BARRIER WALL
GRAE	EDGE OF GRAVEL	WALBW	BLOCK WALL
GSTH	GAS TRENCH	WALCW	CONCRETE WALL
HDR	WOOD HEADER	WALHW	HEAD WALL
HW	HEAD WALL	WALRW	RETAINING WALL
KR	K-RAIL	WALWW	WING WALL
LIP		WCR	WHEELCHAIR RAMP
LSDE	DECOMPOSED GRANITE EDGE	WLPD	WELL PAD
LSDG	DECOMPOSED GRANITE	WTTH	WATER TRENCH
LSGC	GROUND COVER	ww	WING WALL
LSGF	GOLF COURSE FAIRWAY	(335.21)	EXISTING ELEVATION
LSGG	GOLF COURSE GREEN	0 <i>AL</i>	ACCENT LIGHT
LSGT	GOLF COURSE TEE	AV	ALFALFA VALVE
LSLN	TURF		
LSSA	SAND		BACKFLOW ASSEMBLY
LSSP	SLOPE PROTECTION	\triangleleft	BASKETBALL GOAL
LSST	GOLF COURSE SAND TRAP	• <i>BOV</i>	BLOW-OFF VALVE
LSTF	TURF		BM=BENCHMARK; OR SI

LE TRENCH	0 <i>BO</i>	BOLLARD	o——*	STREET LIGHT	A	AIR LINE; SIZE AS NOTED
	0 <i>CO</i>	CLEANOUT	• 4"SLE	PIPE SLEEVE; DIAMETER AS SHOWN	C	COMMUNICATION LINE
AS TRENCH		COMMUNICATION PULLBOX	>	SLOPE	350	MAJOR GRADE CONTOUR LINE
OPE	CVA	COMMUNICATION VAULT	□ SLPB	STREET LIGHT PULLBOX	345	MINOR GRADE CONTOUR LINE
D CONCRETE	<u></u> 312.55	SURVEY CONTROL MONUMENT	0 <i>4"SLV</i>	PIPE SLEEVE; DIAMETER AS SHOWN	CW	CHILLED WATER LINE; SIZE AS NOTED
DGE OF LAKE	∘ <i>DF</i>	DRINKING FOUNTAIN	(s)	SEWER MANHOLE	CWR ^{_2″}	CHILLED WATER RETURN LINE; SIZE AS NO
DGE OF POND	∘ DS	DOORSTOP	<u>(</u>) SP	SERVICE POLE		CHILLED WATER RETORN LINE, SIZE AS NO
DGE OF STREAM	ODW	DRYWELL	□ SPB	SIGNAL PULLBOX	CWS ^{2″}	CHILLED WATER SUPPLY LINE; SIZE AS NO
DGE OF WETLAND	• <i>EG</i>	ELECTRICAL GROUND	*	SPRINKLER		LIMIT OF DIRT
OWLINE	• ELC	ELECTRICAL CONDUIT	∘ <i>4" SPO</i>	STEEL POST; DIAMETER AS SHOWN		LIMIT OF TURF
SC.	Ε	ELECTRICAL METER	0 <i>12"SS</i>	SAND SEPARATOR; SIZE AS NOTED	DL	DRAIN LINE; SIZE AS NOTED
DPE PROTECTION		ELECTRICAL PULLBOX	<i>○ 24"STP</i>	STAND PIPE; DIAMETER AS NOTED	EMS	EMERGENCY MANAGEMENT SYSTEM
	E	ELECTRICAL VAULT LID	© 12"STUMP	TREE STUMP; DIAMETER AS SHOWN	FA	FIRE ALARM LINE
VALL	• ETS	GAS ELECTRONIC TESTING STATION	○ MW	SURVEY MONUMENT WELL	F	FIRE LINE; SIZE AS NOTED
D	\bigcirc FDC	FIRE DEPARTMENT CONNECTION	∘ <i>4"TEL</i>	TELEPHONE; DIAMETER AS SHOWN		
IN CROSS DRAIN	Ĝ	FIRE HYDRANT	T	TELEPHONE MANHOLE	——— F0 ———	
IN FLOWLINE	0 <i>FP</i>	FENCE POST	0 <i>71</i> V	TENNIS NET POLE	========	DRAIN TUBE
IN GRATE	∘ <i>FPO</i>	FLAG POLE	∬ TP	TELEPHONE POLE	————HW	HOT WATER LINE; SIZE AS NOTED
IN MANHOLE W/ GRATE	∘ GAS	GAS LINE; DIAMETER AS SHOWN	TPB	TELEPHONE PULLBOX	HWR ^{2"}	HOT WATER RETURN LINE; SIZE AS NOTED
WLINE	G	GAS REGULATOR		TELEVISION PULLBOX		HOT WATER SUPPLY LINE; SIZE AS NOTED
IN TRENCH	GAV	IRRIGATION GATE VALVE				
IN GREASE TRAP	G	GAS METER	6	TREE; SPREAD SHOWN GRAPHICALLY AND TRUNK DIAMETER AS SHOWN	HYD	HYDRAULIC LINE
K (SEPTIC)		GOAL POST			ID	IRRIGATION DISTRICT; SIZE AS NOTED
NCH	⊖ GP	GUY POLE		TELEPHONE SPLICE BOX	llll	IRON FENCE
	∘ <i>4"GR</i>	GRATE; DIAMETER AS SHOWN	•	TRAFFIC SIGNAL POLE	IRR <u>3"</u>	IRRIGATION MAIN LINE; SIZE AS NOTED
	• <i>GS</i>	GATE STOP		TRAFFIC SIGNAL PULLBOX	L_ <u></u>	IRRIGATION LATERAL LINE; SIZE AS NOTED
F CURB	∘ GSR	GAS RISER	∬ UP	UTILITY POLE	ITS	INTELLIGENT TRAFFIC SYSTEM
F WALK	⊕ <i>GV</i>	GAS VALVE	∘ <i>VB</i>	VACUUM BREAKER	JT	JOINTLY TRENCHED UTILITIES
TING	⊕ € V	GROUNDING ROD	0 <i>1/1</i> /	VOLLEYBALL NET POST		
F CURB	GUY	GUY WIRE	∘ 2″VP	VENT PIPE; DIAMETER AS SHOWN		OVERHEAD COMMUNICATIONS LINE
FWALK		HOSE BIBB	⊖ WELL	WELL	0E	OVERHEAD ELECTRIC LINE
TRENCH	• <i>HB</i>		W	WATER METER	OEC	LINE
К	∘ <i>HR</i>		⊗ WP	WELL PUMP	OET	OVERHEAD ELECTRIC AND TELEPHONE LIN
PE			∘ <i>6″₩₽</i> Ο	CIRCULAR WOOD POST; DIAMETER AS SHOWN	OETV	OVERHEAD ELECTRIC AND TELEVISION LIN
PE	1	IRRIGATION DISTRICT MANHOLE	□ <i>4"X4"WPO</i>	SQUARE WOOD POST; SIZE AS SHOWN	OETVT	OVERHEAD ELECTRIC, TELEVISION AND
DOMES		IRRIGATION REMOTE CONTROL VALVE	∘ <i>4"₩</i>	WATER LINE; DIAMETER AS SHOWN	OTS	TELEPHONE LINE OVERHEAD TRAFFIC SIGNAL LINE
DOMEO	□ <i>IHB</i>	IN-GROUND HOSE BIBB	$\bigcirc WV$	WATER VALVE		OVERHEAD TELEVISION LINE
1	∘ IP	IRON PIPE		ASPHALT PAVEMENT	OTV	
L D TRENCH/SCAR LINE	∫ JP	JOINT UTILITY POLE		CONCRETE BLOCK WALL	OU	OVERHEAD UTILITY LINE
TER FLOWLINE	÷¢-LP	LIGHT POLE		EXISTING BUILDING		PETROLEUM LINE; SIZE AS NOTED
TER	MB	MAIL BOX				RECYCLED WATER IRRIGATION LINE; SIZE A
TER ALL	MH	MANHOLE		CONCRETE		SEWER AND STORM DRAIN LINE; SIZE AS
		MANUAL IRRIGATION VALVE		DETECTABLE WARNINGS		NOTED
-	○ <i>MW</i>	MONITORING WELL		DG OR GRAVEL	SFM <u>6"</u>	SEWER FORCE MAIN; SIZE AS NOTED
WALL		PULLBOX			ST <u>2"</u>	STEAM LINE; SIZE AS NOTED
A/A/ /	5 PIV	POST INDICATOR VALVE	00	CHAIN LINK FENCE	TFO	TRAFFIC FIBER OPTIC LINE
VALL	E	UTILITY STUB		EDGE OF ASPHALT PAVEMENT		TRAFFIC SIGNAL LINE
	_^	PARKING METER	00			TELEVISION LINE
R RAMP	∘ <i>4"POST</i>	POST; DIAMETER AS SHOWN	-	DIRECTION OF FLOW	UNK	UNKNOWN UTILITY LINE
) PP	POWER POLE	E	UNDERGROUND ELECTRIC	XX	
NCH	∘ 6"PVC	PVC PIPE; DIAMETER AS SHOWN	G	GAS LINE; SIZE AS NOTED		PROPERTY LINE
	riangle QC	QUICK COUPLER VALVE	OE	OVERHEAD ELECTRIC		
EVATION	∘ <i>RD</i>	ROOF DRAIN	ОТ	OVERHEAD TELEPHONE		EASEMENT 1
НТ	∘ <i>RDU</i>	ROOF DRAIN UNDERGROUND	SD	STORM DRAIN LINE; SIZE AS NOTED		EASEMENT 2
LVE	• <i>RS</i>	ROOF SUPPORT	s_ <u>12"</u>	SEWER LINE: SIZE AS NOTED		RIGHT-OF-WAY LINE
ASSEMBLY		STADIUM LIGHT POLE	5			RIGHT-OF-WAY CENTER LINE
L GOAL			T	UNDERGROUND TELEPHONE		
	D	STORM DRAIN MANHOLE SIGN		WATER LINE; SIZE AS NOTED		SETBACK LINE
(Δ1 \/F		NU-NI				
′ALVE /ARK; OR SBM=SITE BENCHMARK	<u> </u>	SIGNAL LIGHT PUSH BUTTON	AG <u></u>	AGRICULTURAL IRRIGATION LINE; SIZE AS NOTED		





FOR DSA USE ONLY DSA APP# 02-121754

WATER RETURN LINE; SIZE AS NOTED

WATER SUPPLY LINE; SIZE AS NOTED

AD ELECTRIC AND COMMUNICATION

AD ELECTRIC AND TELEPHONE LINE

AD ELECTRIC AND TELEVISION LINE

ED WATER IRRIGATION LINE; SIZE AS

MERCED COLLEGE GREENHOUSE COMPLEX GREENHOUSE COMPLEX CONST. DOCUMENTS

TOPOGRAPHIC SURVEY LEGEND

REF. & REV.

CONSULTANT

Blair, Church & Flynn

Consulting Engineers 451 Clovis Avenue,

Suite 200

Clovis, California 93612 Tel (559) 326-1400 Fax (559) 326-1500

C101

OBSERVATION OF VISIBLE EVIDENCE BY A FIELD SURVEY. THE ENGINEER CAN MAKE NO GUARANTEE AS TO THE ACCURACY OR COMPLETENESS OF

UTILITY INFORMATION SHOWN HEREON IS BASED ON RECORD INFORMATION SUPPLIED TO THE ENGINEER BY UTILITY COMPANIES, PUBLIC AGENCIES AND THE PROPERTY OWNER, TOGETHER WITH THE UNDERGROUND UTILITY FACILITIES SHOWN. PRIOR TO ANY SITE EXCAVATIONS, THE CONTRACTOR SHALL CONTACT THE OWNER AND UNDERGROUND SERVICE ALERT (USA) AND REQUEST THAT THEY

IDENTIFY THE LOCATION OF ALL UNDERGROUND UTILITIES AT THE SITE.

NOTE:

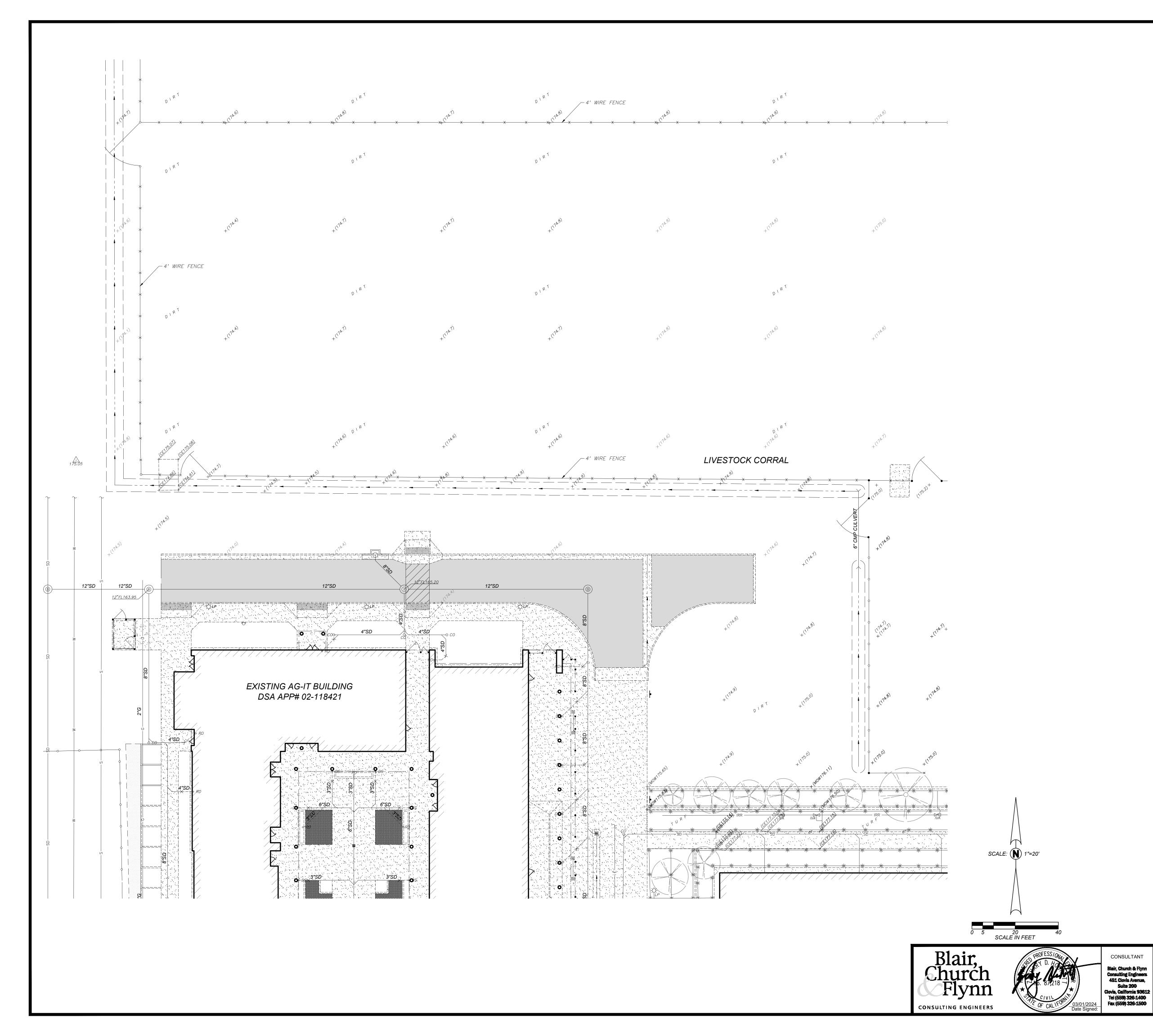
THIS TOPOGRAPHIC SURVEY LOCATES SPECIFIC PHYSICAL FEATURES OF THE SITE AND THEIR ELEVATION AS DETERMINED NECESSARY BY THE PROJECT ENGINEER. THE INFORMATION SHOWN REFLECTS THE DATA OBTAINED BY FIELD SURVEY CONDUCTED ON JANUARY 23, 2020.

SITE BENCHMARK:

ELEV.= 175.98 NAVD88 DATUM

UTILITY NOTE:

BRASS CAP ON UNIVERSITY DRIVE APPROXIMATELY 148'± SOUTHWEST OF THE ALLIED HEALTH BUILDING WEST



FOR DSA USE ONLY DSA APP# 02-121754

NOTE:

THIS TOPOGRAPHIC SURVEY LOCATES SPECIFIC PHYSICAL FEATURES OF THE SITE AND THEIR ELEVATION AS DETERMINED NECESSARY BY THE PROJECT ENGINEER. THE INFORMATION SHOWN REFLECTS THE DATA OBTAINED BY FIELD SURVEY CONDUCTED ON JANUARY 23, 2020.

SITE BENCHMARK:

BRASS CAP ON UNIVERSITY DRIVE APPROXIMATELY 148'± SOUTHWEST OF THE ALLIED HEALTH BUILDING WEST ELEV.= 175.98 NAVD88 DATUM

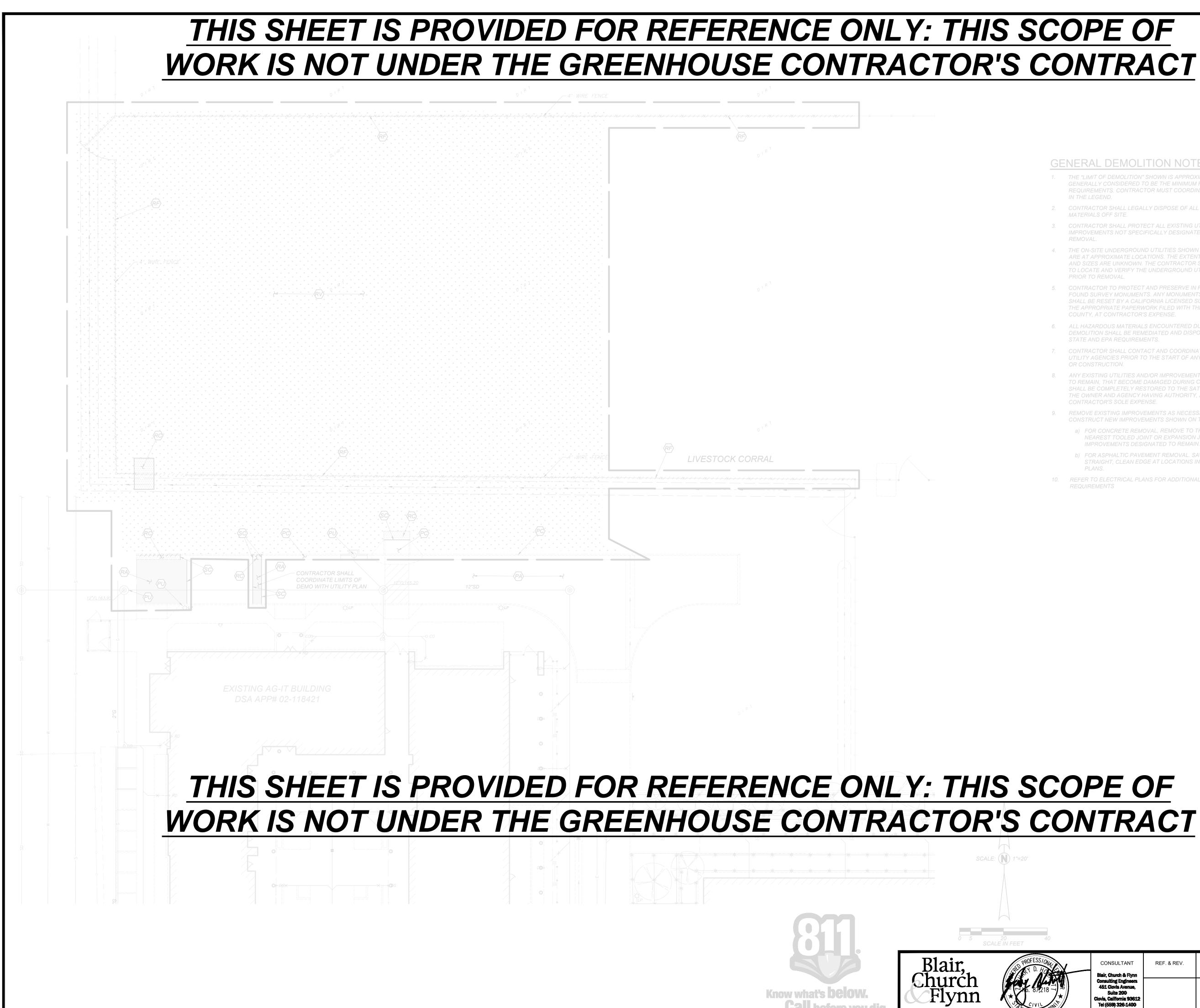
UTILITY NOTE:

UTILITY INFORMATION SHOWN HEREON IS BASED ON RECORD INFORMATION SUPPLIED TO THE ENGINEER BY UTILITY COMPANIES, PUBLIC AGENCIES AND THE PROPERTY OWNER, TOGETHER WITH OBSERVATION OF VISIBLE EVIDENCE BY A FIELD SURVEY. THE ENGINEER CAN MAKE NO GUARANTEE AS TO THE ACCURACY OR COMPLETENESS OF THE UNDERGROUND UTILITY FACILITIES SHOWN. PRIOR TO ANY SITE EXCAVATIONS, THE CONTRACTOR SHALL CONTACT THE OWNER AND UNDERGROUND SERVICE ALERT (USA) AND REQUEST THAT THEY IDENTIFY THE LOCATION OF ALL UNDERGROUND UTILITIES AT THE SITE.

MERCED COLLEGE GREENHOUSE COMPLEX GREENHOUSE COMPLEX TOPOGRAPHIC SURVEY

CONST. DOCUMENTS DR. BY: <u>AH</u> CH. BY: <u>ZH</u> DATE: <u>03/01/2024</u> SCALE AS NOTED

C102



DSA APP# 02-121754

GENERAL DEMOLITION NOTES

DEMOLITION LEGEND:				
	REMOVE EXISTING IMPROVEMENTS AS NECESSARY TO CONSTRUCT NEW IMPROVEMENTS SHOWN ON THESE PLANS UNLESS OTHERWISE NOTED ON THE PLAN. THE REMOVAL OF IMPROVEMENTS MUST BE COORDINATED WITH ALL PLAN SHEETS. CONTRACTOR MUST ALSO COORDINATE REMOVAL OF IMPROVEMENTS WITH UTILITY AGENCIES. PROTECT ALL IMPROVEMENTS NOT DESIGNATED FOR REMOVAL. SEE NOTE 1			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	LIMITS OF VEGETATION REMOVAL. 4" MINIMUM DEPTH			
	LIMITS OF ASPHALTIC CONCRETE IMPROVEMENT REMOVAL			
	LIMITS OF CONCRETE IMPROVEMENT REMOVAL			
$\langle PA \rangle$	PROTECT ASPHALT CONCRETE PAVEMENT TO REMAIN			
PC	PROTECT CONCRETE IMPROVEMENTS TO REMAIN			
$\langle PF \rangle$	PROTECT FENCE TO REMAIN			
PU	PROTECT UTILITY TO REMAIN			
$\langle RA \rangle$	REMOVE ASPHALT CONCRETE PAVEMENT STRUCTURAL SECTION			
RO	REMOVE CONCRETE IMPROVEMENTS			
$\langle RF \rangle$	REMOVE WIRE FENCES AND GATE			
RV	REMOVE VEGETATION			
(SC)	SAWCUT			
_ 	LIMIT OF WIRE FENCE REMOVAL			
- + + + + + + + - + - + - + - + - + - +	LIMIT OF CONCRETE CURB REMOVAL			



CONSULTING ENGINEER

CONSULTANT	REF. &
Blair, Church & Flynn	
Consulting Engineers 451 Clovis Avenue, Suite 200	
Clovis, California 93612 Tel (559) 326-1400	
Fax (559) 326-1500	

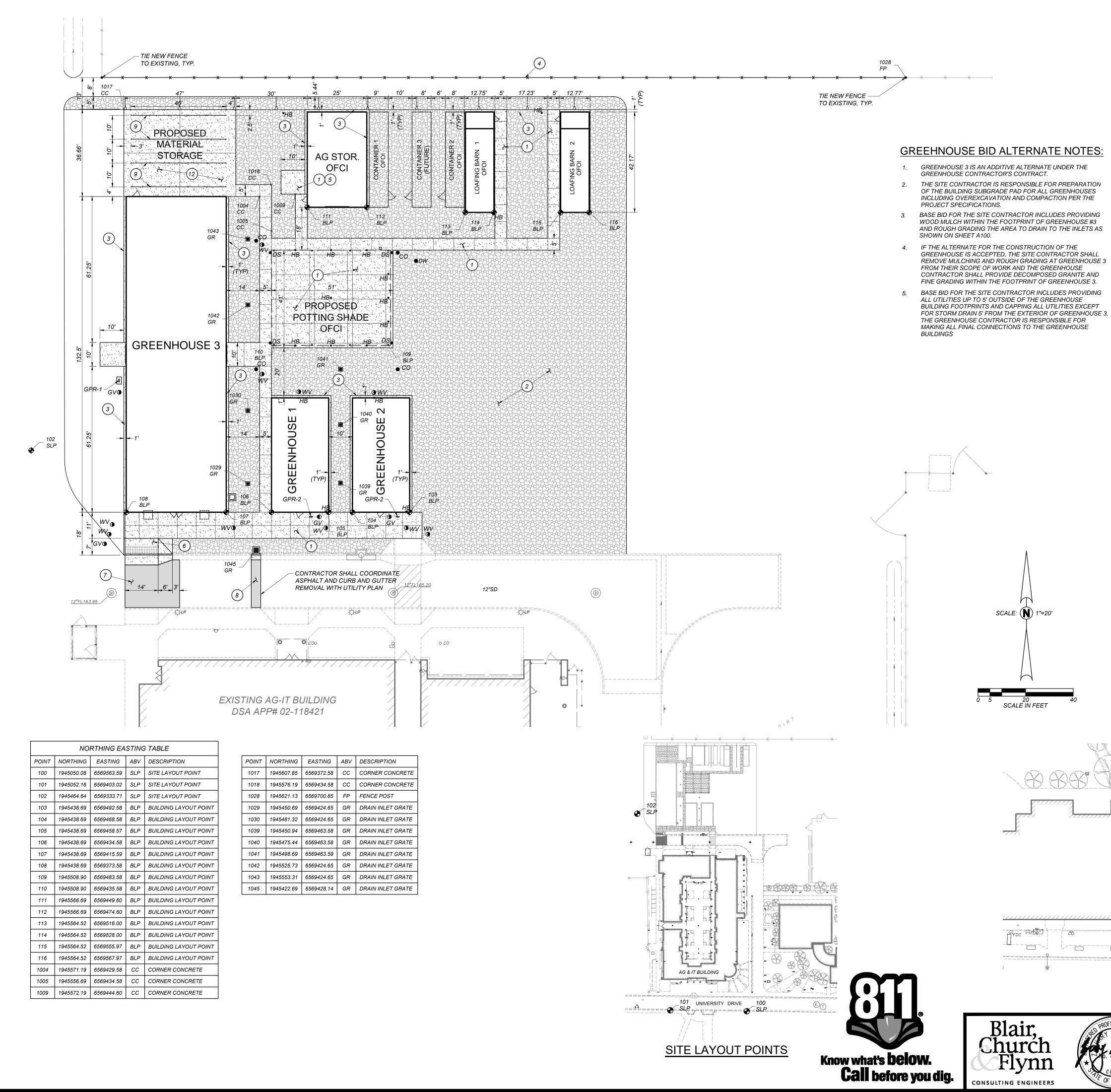
REV

MERCED COLLEGE GREENHOUSE COMPLEX

GREENHOUSE COMPLEX DEMOLITION PLAN

CONST. DOCUMENT DR. BY: CH. BY: C103 DATE: 03/01/2024

SCALE AS NOTED



	NO	RTHING EA	STING	G TABLE
POINT	NORTHING	EASTING	ABV	DESCRIPTION
100	1945050.08	6569563.59	SLP	SITE LAYOUT POINT
101	1945052.16	6569403.02	SLP	SITE LAYOUT POINT
102	1945464.64	6569333.71	SLP	SITE LAYOUT POINT
103	1945438.69	6569492.58	BLP	BUILDING LAYOUT POINT
104	1945438.69	6569468.58	BLP	BUILDING LAYOUT POINT
105	1945438.69	6569458.57	BLP	BUILDING LAYOUT POINT
106	1945438.69	6569434.58	BLP	BUILDING LAYOUT POINT
107	1945438.69	6569415.59	BLP	BUILDING LAYOUT POINT
108	1945438.69	6569373.58	BLP	BUILDING LAYOUT POINT
109	1945508.90	6569483.58	BLP	BUILDING LAYOUT POINT
110	1945508.90	6569435.58	BLP	BUILDING LAYOUT POINT
111	1945566.69	6569449.60	BLP	BUILDING LAYOUT POINT
112	1945566.69	6569474.60	BLP	BUILDING LAYOUT POINT
113	1945564.52	6569516.00	BLP	BUILDING LAYOUT POINT
114	1945564.52	6569528.00	BLP	BUILDING LAYOUT POINT
115	1945564.52	6569555.97	BLP	BUILDING LAYOUT POINT
116	1945564.52	6569567.97	BLP	BUILDING LAYOUT POINT
1004	1945571.19	6569429.58	сс	CORNER CONCRETE
1005	1945556.69	6569434.58	сс	CORNER CONCRETE
1009	1945572.19	6569444.60	сс	CORNER CONCRETE

POINT	NORTHING	EASTING	ABV	DESCRIPTION
1017	1945607.85	6569372.58	сс	CORNER CONCRETE
1018	1945576.19	6569434.58	СС	CORNER CONCRETE
1028	1945621.13	6569700.85	FP	FENCE POST
1029	1945450.69	6569424.65	GR	DRAIN INLET GRATE
1030	1945481.32	6569424.65	GR	DRAIN INLET GRATE
1039	1945450.94	6569463.58	GR	DRAIN INLET GRATE
1040	1945475.44	6569463.58	GR	DRAIN INLET GRATE
1041	1945498.69	6569463.59	GR	DRAIN INLET GRATE
1042	1945525.73	6569424.65	GR	DRAIN INLET GRATE
1043	1945553.31	6569424.65	GR	DRAIN INLET GRATE
1045	1945422.69	6569428.14	GR	DRAIN INLET GRATE

GENERAL HORIZONTAL CONTROL

NOTES:

- ALIGNMENT OF THE SITE LAYOUT GRID IS BASED ON AN ASSUMED COORDINATE SYSTEM.
- 2 SITE LAYOUT POINT 100 IS A BRASS CAP STAMPED "SURVEY MARK" ON TOP OF THE CURB ON THE SOUTH SIDE OF UNIVERSITY DRIVE, SOUTH OF THE SOUTH-EAST CORNER OF THE AGRICULTURE AND IT BUILDING
- SITE LAYOUT POINT 101 IS A CHISELED 'X' ON TOP OF THE З. CURB ON THE SOUTH SIDE OF UNIVERSITY DRIVE APPROXIMATELY 57'+/- SOUTH-WEST OF THE ENTRY TO THE AGRICULTURE AND IT BUILDING
- SITE LAYOUT POINT 102 IS A NAIL AND TIN APPROXIMATELY 4. 102'+/- NORTHWEST OF THE NORTHWEST CORNER OF THE AGRICULTURE AND IT BUILDING
- DIMENSIONS AND POINTS ARE TO CENTER OF FENCE POSTS, FACE OF BUILDINGS, TOP FACE OF CURB, OR EDGE OF CONCRETE, UNLESS SHOWN OTHERWISE.

SITE NOTES:

- ALL CONCRETE MOWSTRIPS, RAMP AND SIDEWALKS SHALL HAVE WEAKENED PLANE JOINTS AT 15 FEET MAXIMUM ON CENTER AND ONE HALF INCH EXPANSION JOINTS AT 45 FEET MAXIMUM ON CENTER PER DETAIL [A/X100]
- INSTALL DOWELED CONNECTION AT JOINT OF NEW CONCRETE 2 TO EXISTING CONCRETE PER DETAIL [D/X100]
- 3. NO CONCRETE MAY BE POURED UNTIL THE FORMS HAVE BEEN REVIEWED AND APPROVED BY THE PROJECT INSPECTOR.
- ALL BURIED METALLIC OBJECTS SHALL HAVE A PROTECTIVE 4. COATING OR BE WRAPPED WITH APPROVED PROTECTIVE WRAP.
- ADJUST EXISTING SPRINKLER HEADS AND LATERAL LINES AS REQUIRED FOR NEW IMPROVEMENTS.
- DIMENSIONS ARE TO CENTER OF FENCE POSTS, FACE OF BUILDINGS, FACE OF WALLS OR EDGE OF CONCRETE.
- 2 WORKING DAYS BEFORE COMMENCING EXCAVATION 7. OPERATIONS WITHIN THE STREET RIGHT-OF-WAY AND/OR UTILITY EASEMENTS, ALL EXISTING UNDERGROUND FACILITIES SHALL HAVE BEEN LOCATED BY UNDERGROUND SERVICES ALERT (USA). CALL 1-800-642-2444
- ANY SURVEY MONUMENTS WITHIN THE AREA OF 8. CONSTRUCTION SHALL BE PRESERVED OR RESET BY A PERSON LICENSED TO PRACTICE LAND SURVEYING IN THE STATE OF CALIFORNIA

Suite 200 Clovis, California 93612 Tel (559) 326-1400 Fax (559) 326-1500

HORIZONTAL CONTROL LEGEND:

100 √LCP	LAYOUT COORDINATE POINT
● ¹⁰⁰	SITE LAYOUT POINT
● 100	BUILDING LAYOUT POINT
сс	CORNER CONCRETE
FP	FENCE POST
GR	DRAIN INLET GRATE
	STORM DRAIN INLET, SEE GRADING AND DRAINAGE PLAN
	BOTTLE FILLING STATION, SEE UTILITY PLAN

SITE LEGEND:

LEGEND:	
A- X101	DETAIL DESIGNATION DETAIL REFERENCE SHEET LOCATION
[A/X101]	[DETAIL DESIGNATION / SHEET LOCATION]
an a	LIMITS OF STANDARD DUTY CONCRETE IMPROVEMENTS
	LIMITS OF ASPHALTIC CONCRETE PAVEMENT STRUCTURAL SECTION
	LIMITS OF DECOMPOSED GRANITE
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	LIMITS OF DETECTABLE WARNINGS PER DETAIL [G/X100]
1	CONCRETE SIDEWALK PER DETAIL [A/X100]
2	4" STABILIZED DECOMPOSED GRANITE PER [B/X100]
3	CONCRETE MOWSTRIP PER DETAIL [C/X100]
4	BARBED WIRE WITH ELECTRIC DETERRENT WIRE FENCE TO MATCH EXISTING FENCE
5	ELECTRICAL EQUIPMENT PAD, SEE ELECTRICAL PLANS FOR FURTHER INFORMATION
6	ACCESSIBLE CURB RAMP PER DETAIL [F/X100]
7	HEAVY DUTY ASPHALT CONCRETE PAVEMENT PER DETAIL [I/X100]
8	ASPHALT CONCRETE PLUG PER DETAIL [J/X100]
9	MATERIAL STORAGE BAY WOOD WALLS PER DETAIL [K/X100]
(10)	CONTRACTOR TO VERIFY THAT PARKING STALL SIGNAGE MEETS THE MINIMUM REQUIREMENTS OF DETAIL [A/C100]. IF SIGNAGE DOES NOT MEET THE MINIMUM REQUIREMENTS, CONTRACTOR SHALL INSTALL NEW SIGNAGE ON EXISTING POST PER DETAIL [A/C100]
(11)	CONTRACTOR TO VERIFY THAT TOW AWAY SIGNAGE MEETS THE MINIMUM REQUIREMENTS OF DETAIL [B/C100]. IF SIGNAGE DOES NOT MEET THE MINIMUM REQUIREMENTS, CONTRACTOR SHALL INSTALL NEW SIGNAGE ON EXISTING POST PER DETAIL [B/C100]
(12)	HEAVY DUTY CONCRETE PER DETAIL [J/A600]

 DR. BY:
 AH

 CH. BY:
 ZH

 DATE:
 03/01/2024

 SCALE AS NOTED

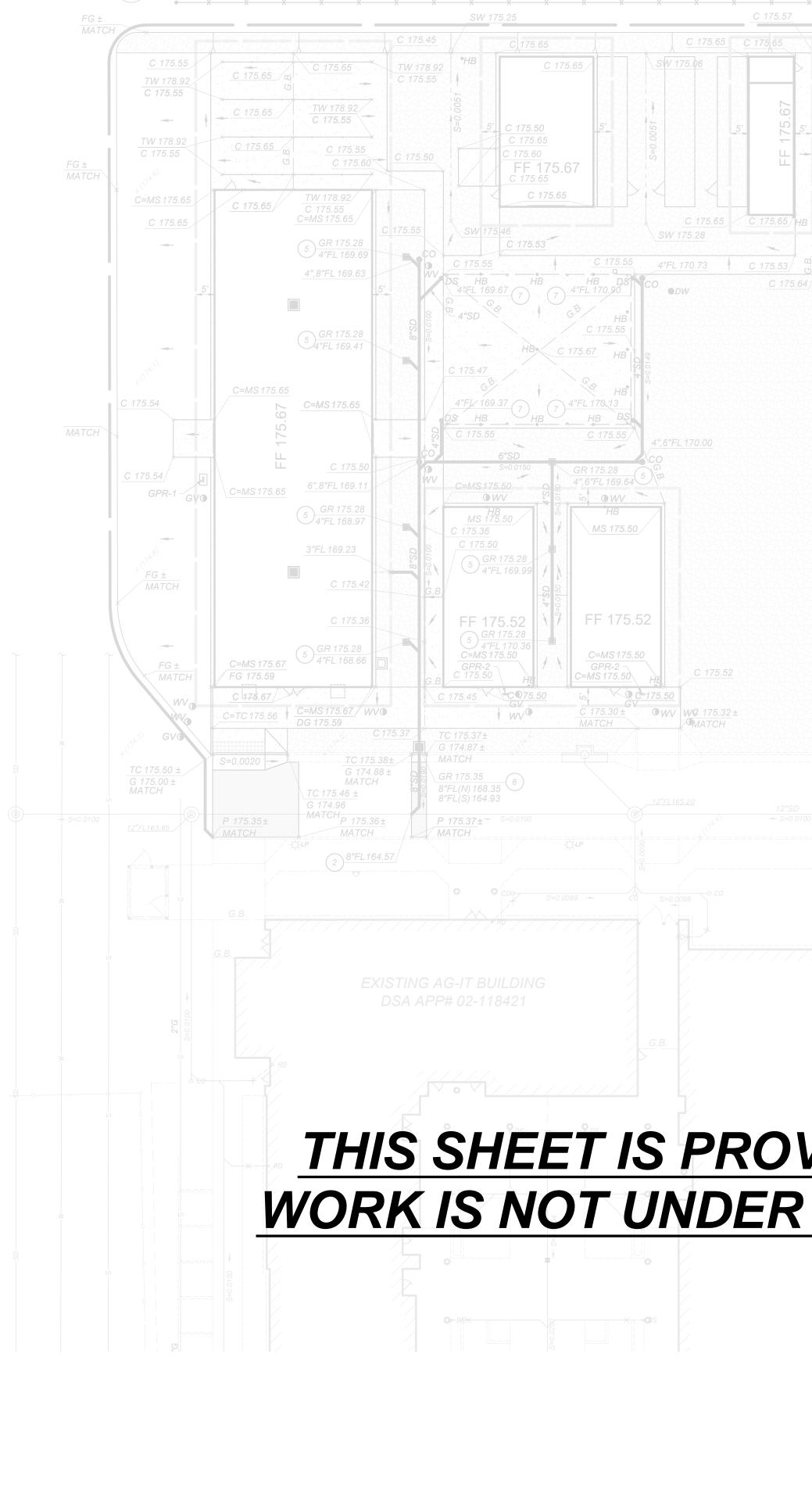
(11) SCALE: (N) 1"=40' -----PLANTER PARKING LOT A 0 10 20 40 SCALE IN FEET MERCED COLLEGE GREENHOUSE COMPLEX CONSULTANT REF. & REV. Blair, Church & Flynn Consulting Engineers 451 Clovis Avenue, GREENHOUSE COMPLEX CONST. DOCUMENTS

SITE PLAN & HORIZONTAL

CONTROL

C104

THIS SHEET IS PROVIDED FOR REFERENCE ONLY: THIS SCOPE OF WORK IS NOT UNDER THE GREENHOUSE CONTRACTOR'S CONTRACT



MATCH EX. LIP

THIS SHEET IS PROVIDED FOR REFERENCE ONLY: THIS SCOPE OF **WORK IS NOT UNDER THE GREENHOUSE CONTRACTOR'S CONTRACT**



DSA APP# 02-121754

GENERAL GRADING AND DRAINAGE NOTES:

GRADING	LEGEND:
С	CONCRETE
FF	FINISHED FLOOR
G	GUTTER
MS	MOWSTRIP
Р	PAVEMENT
SW	SWALE
ТС	TOP OF CURB
TW	TOP OF WALL
(344.9)	EXISTING ELEVATION
C328.78	NEW FINISHED GRADE
->	DIRECTION OF DRAINAGE
	BUILDING OVER-EXCAVATION LIMITS; SEE DETAIL [H/X100]
<u> </u>	GRADE BREAK
	LIMITS OF GRADING
S=0.0050	PIPE SLOPE AND DIRECTION OF FLOW
	SWALE
6"SD	PVC STORM DRAIN PIPELINE; SIZE AS NOTED. TRENCH AND BACKFILL PER [G/X200]
S=0.0020	FLOWLINE SLOPE AND DIRECTION OF FLOW
	U23 STORM DRAIN INLET
	V12 STORM DRAIN INLET
1	NOT USED
2	CONNECT TO EXISTING STORM DRAIN WITH WATER-TIGHT CONNECTION
3	NOT USED
4	NOT USED
5	V12 STORM DRAIN INLET PER DETAIL [F/X200]
6	U23 STORM DRAIN INLET PER DETAIL [H/X200]
7	HARD-PIPED CONNECTION TO SHADE CANOPY DOWNSPOUT PER DETAIL [E/X200]
•C0	SURFACE CLEANOUT PER DETAIL [C/X200]
• DS	DOWNSPOLIT

• DS

STABILIZATION NOTES

MERCED COLLEGE GREENHOUSE COMPLEX CONST. DOCUMENTS

GRADING AND DRAINAGE PLAN

CH. BY:

C105

GREENHOUSE COMPLEX

SCALE AS NOTED

DR. BY: DATE: 03/01/2024

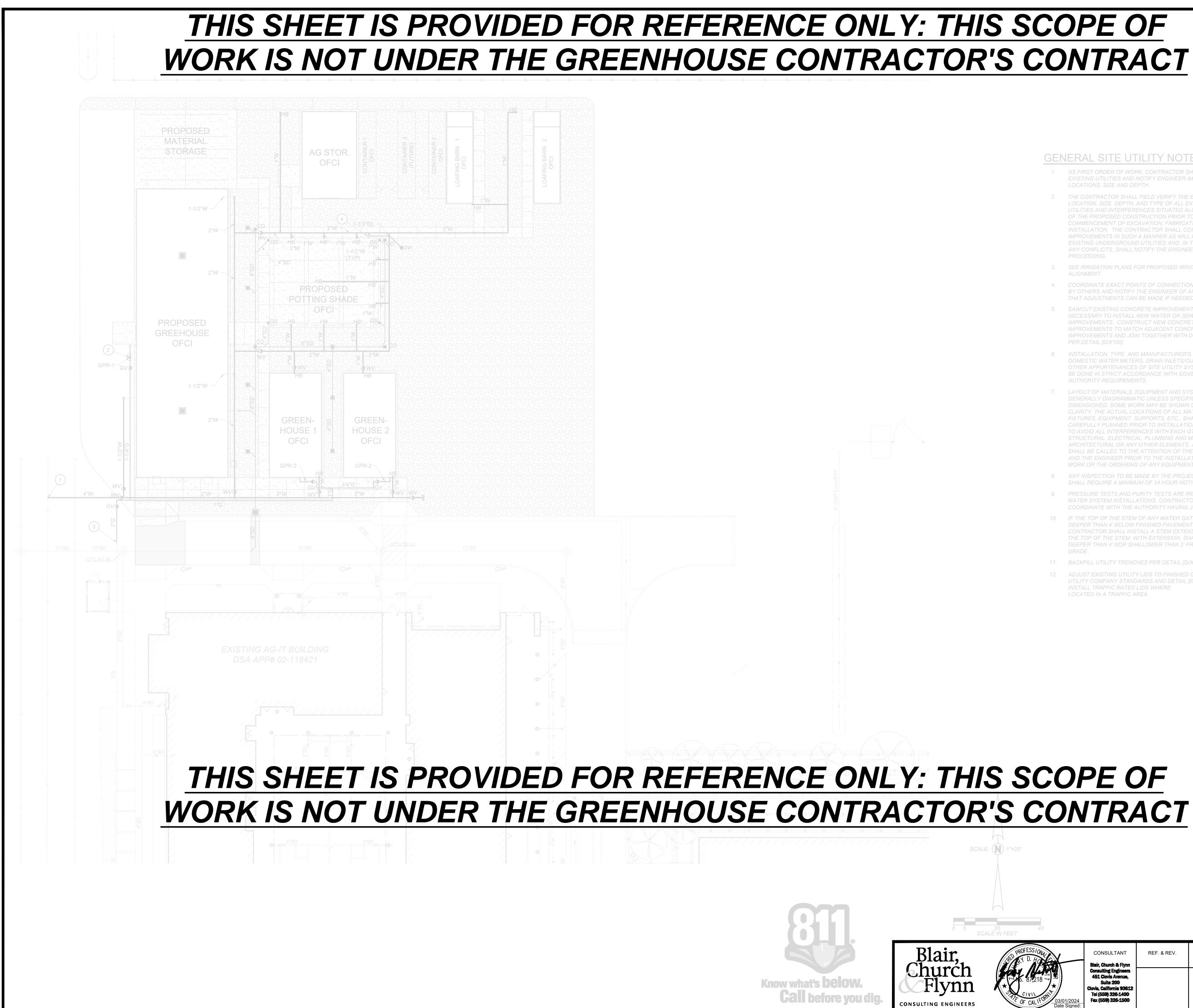
CONSULTANT Blair, Church & Flyn Consulting Engineers 451 Clovis Avenue, Suite 200 Clovis, California 93612 Tel (559) 326-1400

Fax (559) 326-1500

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REF. & REV.



DSA APP# 02-121754

GENERAL SITE UTILITY NOTES

- 4. COORDINATE EXACT POINTS OF CONNECTION TO PLUMBING

- DEEPER THAN 4' BELOW FINISHED PAVEMENT GRADE, THE

UTILITY LEGEND

6"W	PVC WATER LINE, SIZE AS NOTED ON PLAN. THRUST BLOCKS PER DETAIL [A/X200]. PIPE BEDDING AND BACKFILL PER DETAIL [G/X200]
6"SD	STORM DRAIN PIPE, SEE GRADING PLAN
G	GAS LINE, 5LB
∘HB	HOSE BIBB PER DETAIL [D/X200]
• <i>WV</i>	WATER VALVE PER [B/X200]
●GV	GAS SHUT-OFF VALVE PER [A/X201]
●DW	DRY WELL PER [E/X201]
E	CAP END OF UTILITY LINE.
1	CONNECT TO EXISTING WATER LINE WITH WATER- TIGHT CONNECTION.
2	GAS PRESSURE REGULATOR VALVE PER [B/X201] ; PROVIDE HOUSEKEEPING PAD
3	CONNECT TO EXISTING GAS LINE
$\begin{pmatrix} 4 \end{pmatrix}$	BOTTLE FILLING STATION PER DETAIL [D/X201]

Suite 200

Clovis, California 93612 Tel (559) 326-1400 Fax (559) 326-1500

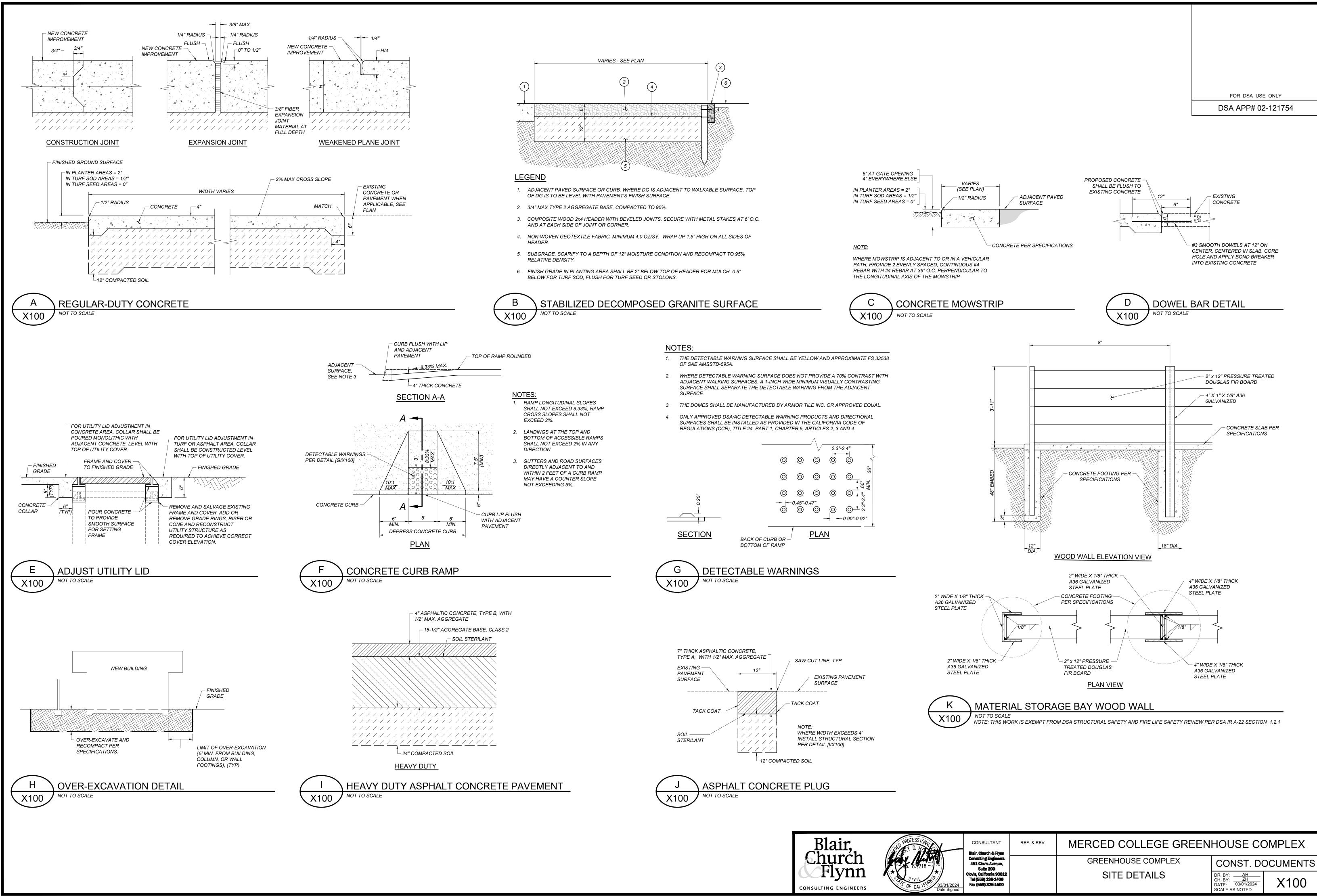
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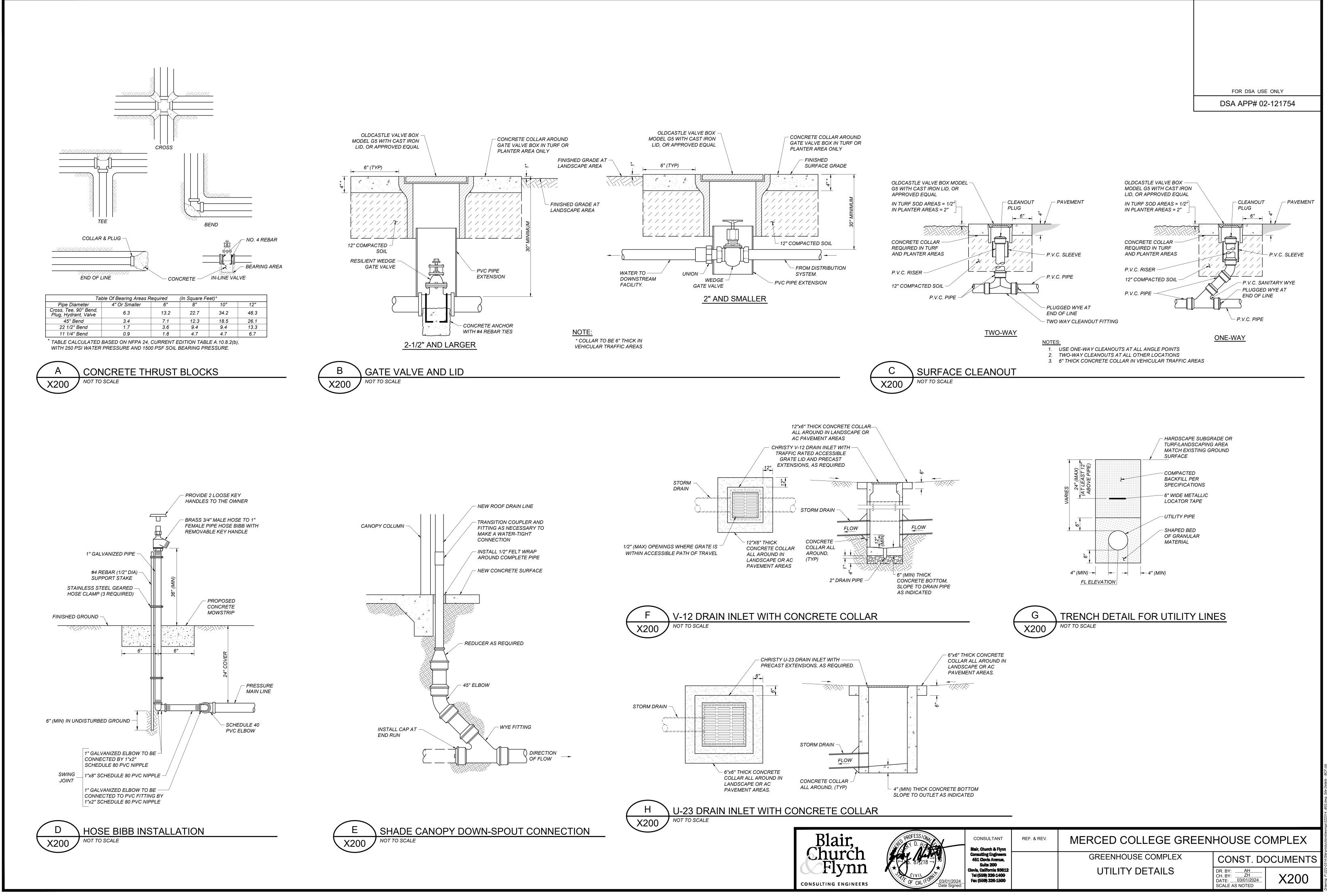
MERCED COLLEGE GREENHOUSE COMPLEX

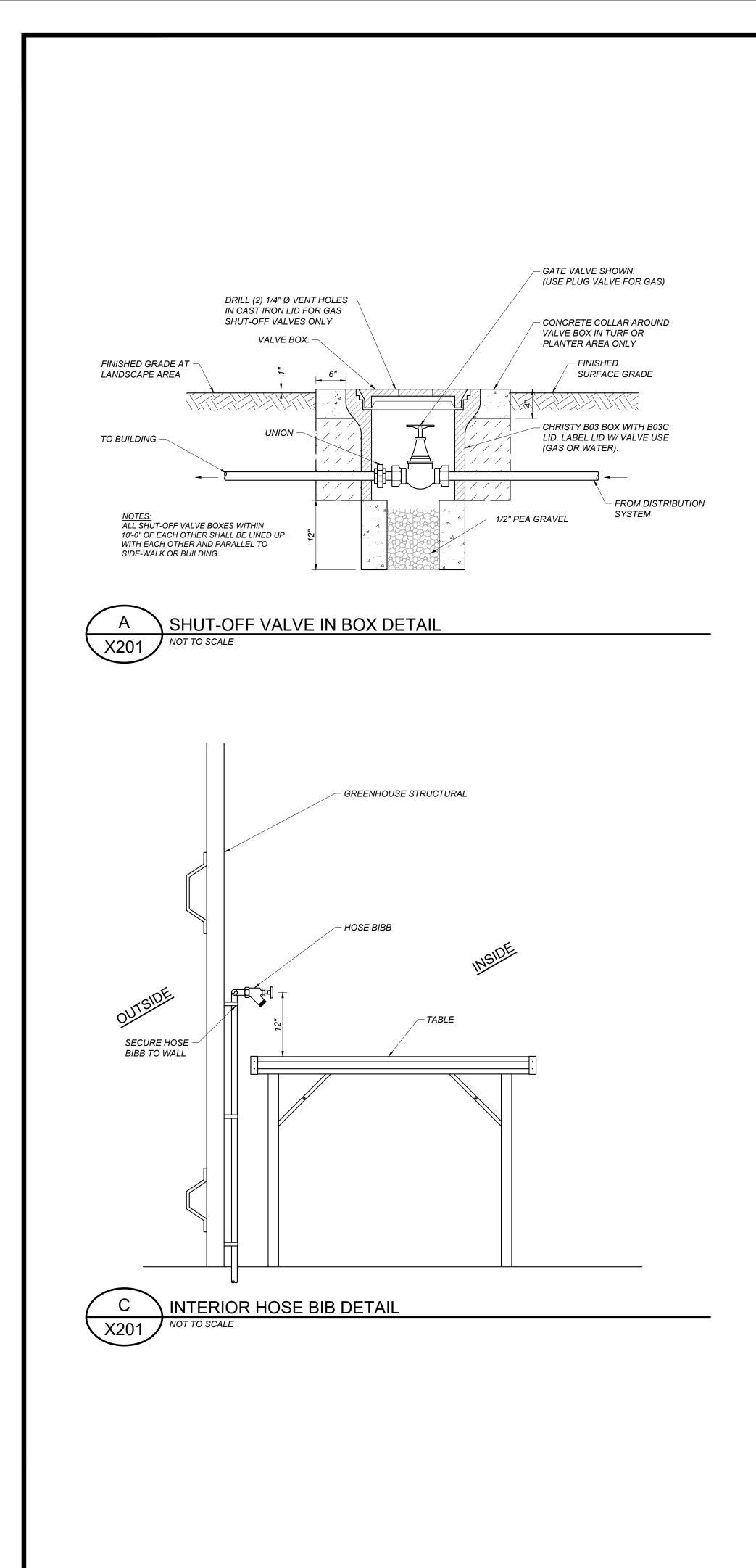
GREENHOUSE COMPLEX UTILITY PLAN

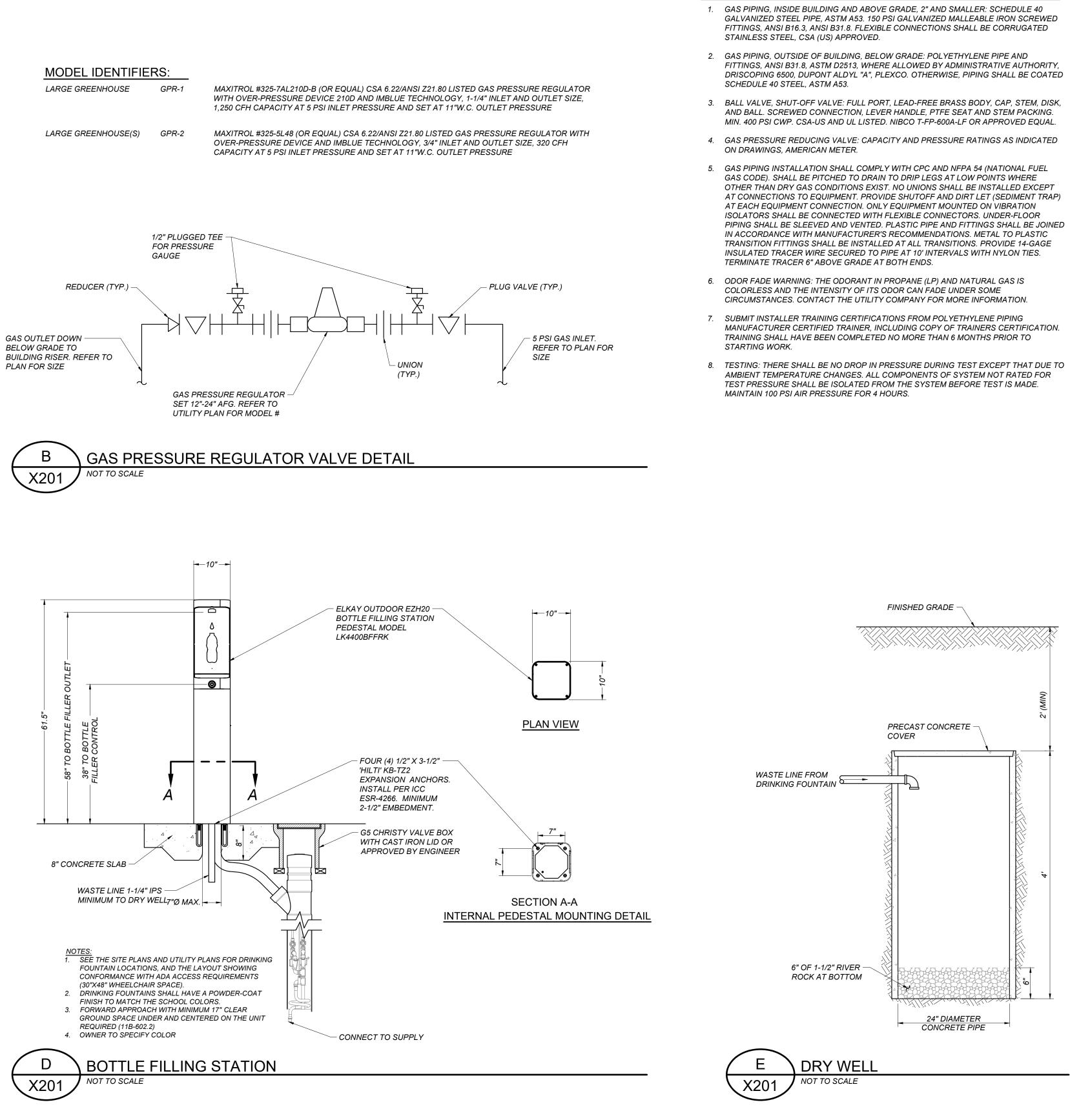
CONST. DOCUMENT DR. BY: CH. BY: DATE: 03/01/2024 SCALE AS NOTED

C106











GAS NOTES:

CONSULTANT REF. & REV. Blair, Church & Flynn

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MERCED COLLEGE GREENHOUSE COMPLEX

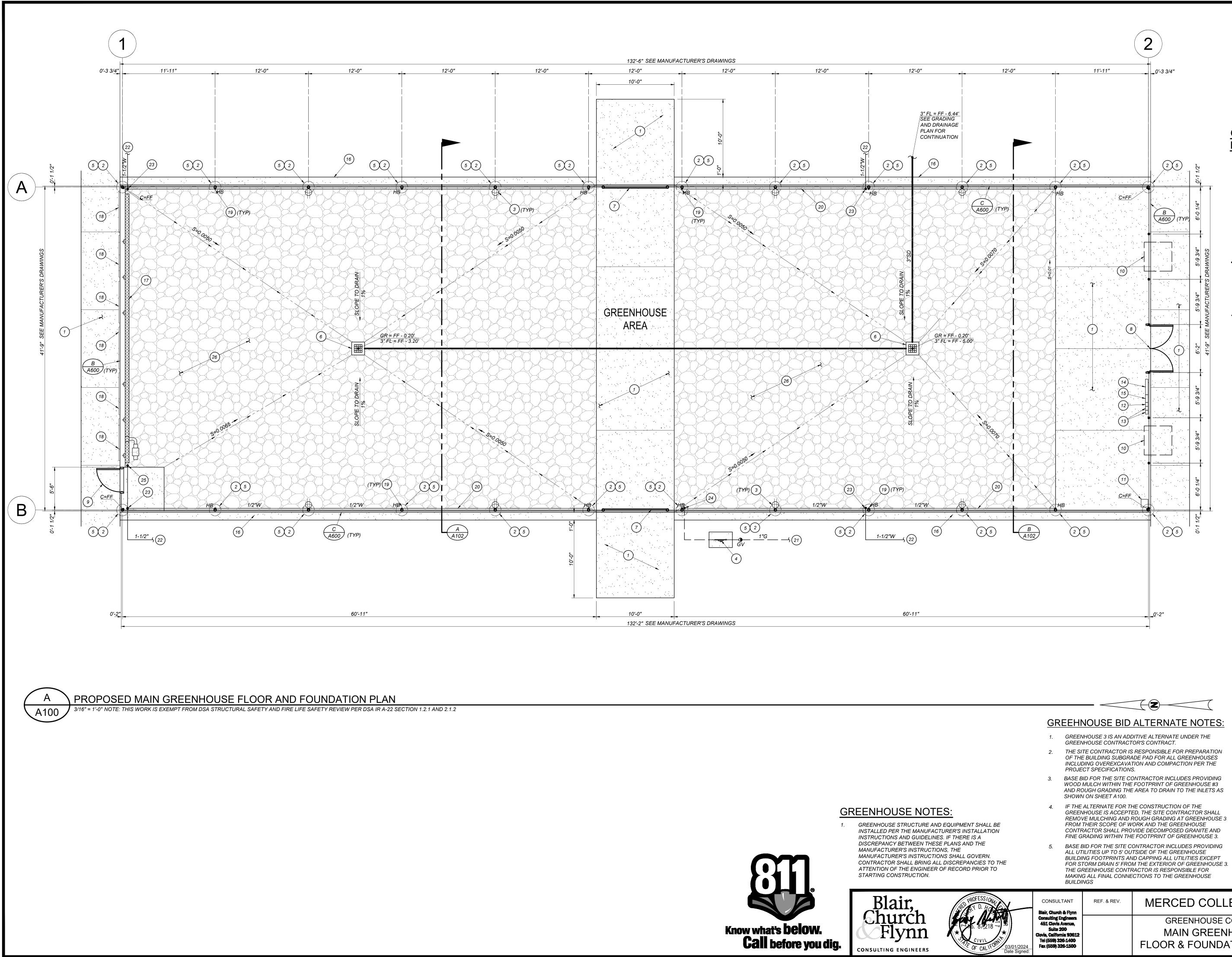
GREENHOUSE COMPLEX UTILITY DETAILS

CONST. DOCUMENTS DR. BY: <u>AH</u> CH. BY: <u>ZH</u> CH. BY: <u>ZH</u> DATE: <u>03/01/2024</u>

SCALE AS NOTED

X201

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GREEHNOUSE BID ALTERNATE NOTES:

- 2. THE SITE CONTRACTOR IS RESPONSIBLE FOR PREPARATION OF THE BUILDING SUBGRADE PAD FOR ALL GREENHOUSES INCLUDING OVEREXCAVATION AND COMPACTION PER THE
- BASE BID FOR THE SITE CONTRACTOR INCLUDES PROVIDING WOOD MULCH WITHIN THE FOOTPRINT OF GREENHOUSE #3 AND ROUGH GRADING THE AREA TO DRAIN TO THE INLETS AS

CONSULTANT	REF
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GRADING AND DRAINAGE

LEGEND.	
С	CONCRETE
FF	FINISHED FLOOR
FL	FLOWLINE
GR	STORM DRAIN GRATE
328.78 ×	NEW FINISHED GRADE
-	DIRECTION OF SURFACE DRAINAGE
S=0.0050 -	PIPE SLOPE AND DIRECTION OF FLOW
	SWALE AND DIRECTION OF FLOW
6"SD	STORM DRAIN PIPELINE; SIZE AS NOTED. TRENCH AND BACKFILL PER DETAIL [G/X200]
S=0.0020 -	FLOWLINE SLOPE AND DIRECTION OF FLOW

KEYNOTES

1	GREENHOUSE INTERIOR CONCRETE SLAB PER DETAIL [I/A600], HEAVY BROOM FINISH.
2	CONCRETE FOOTING PER DETAIL [A/A600]

V12 STORM DRAIN INLET PER DETAIL [F/X200]

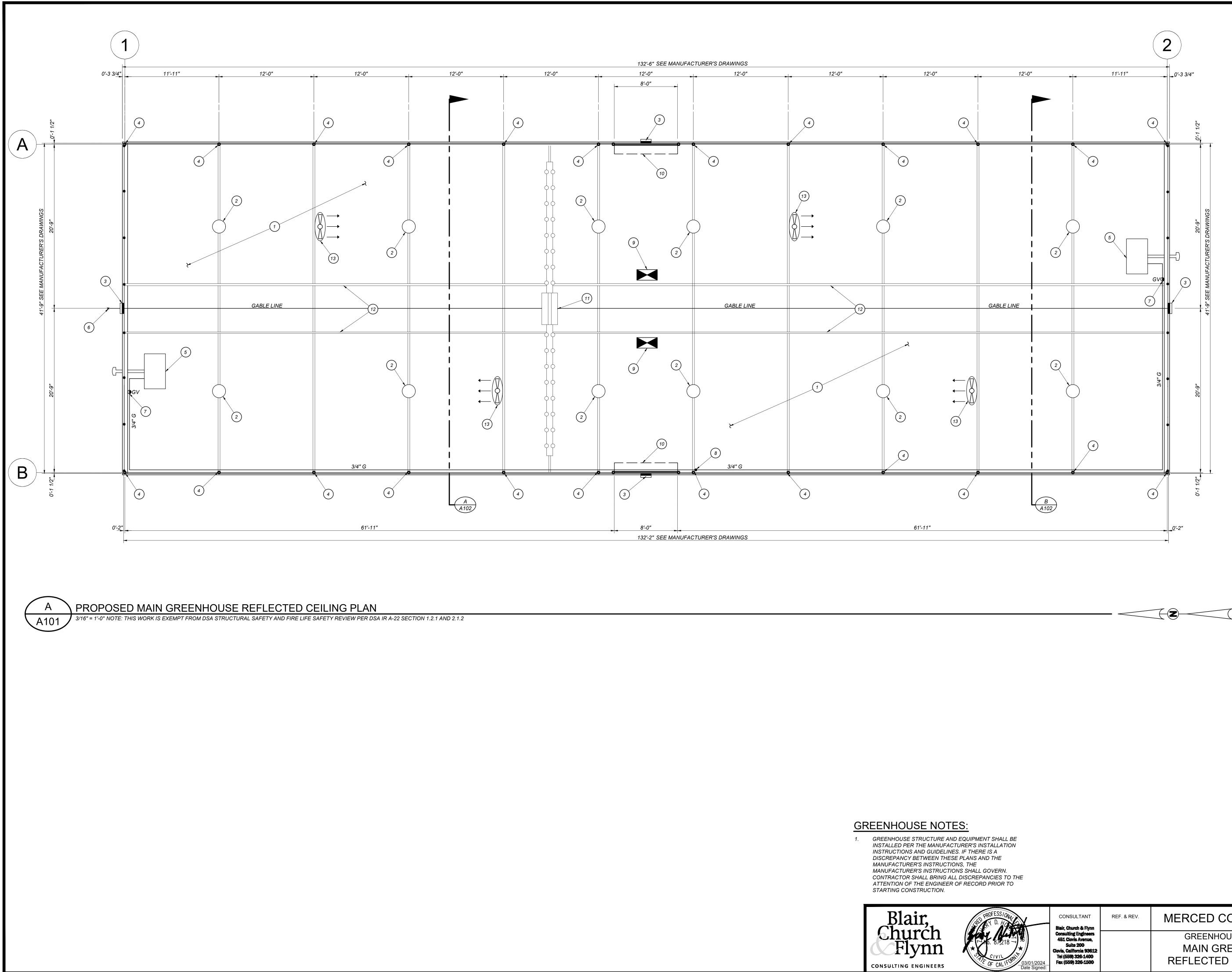
- ELECTRICAL EQUIPMENT, SEE ELECTRICAL PLANS (3)
- GAS REGULATOR IN CAGE, SEE DETAIL [A/X100] FOR (4)
- 2'x3' HOUSEKEEPING PAD STRUCTURAL STEEL COLUMN. SEE MANUFACTURER'S (5) PLANS FOR ADDITIONAL INFORMATION.
- V12 STORM DRAIN INLET PER DETAIL [F/X200] (6)
- 8' X 8' STANDARD WINANDY SHEET STEEL ROLL UP 7 DOOR, (TYP.2)
- 6' X 7' X 1-3/4" THICK STANDARD WINANDY HALF GLASS DOUBLE DOOR (WITH STANDARD DOUBLE LEVER "BEST" STYLE CORE LOCK SET)
- 3' X 7' X 1-3/4" THICK STANDARD WINANDY HALF GLASS SINGLE DOOR (WITH STANDARD DOUBLE (9) LEVER "BEST" STYLE CORE LOCK SET)
- ACME EXHAUST FAN, (2) DCA42J, 1 HP , W/WS, W/GS, (10) W/SLANT WALL HOUSING, W/INLET & OUTLET GUARD, WITH SHUTTER, 115 V
- TGU ROOF SHADE SYSTEM DRIVE MOTOR, $\frac{1}{5}$ HP, 2.5 (11) AMPS, W/ 50% FLAME RETARDANT SHADE ČLOTH (TYP. 1)
- (12) MOTORIZED SHADE SYSTEM CONTROL PANEL, (TYP.1)
- (13) "LOCK" VENT MACHINE CONTROL PANEL, (TYP.2)
- WADSWORTH ENVIROSTEP GREENHOUSE (14)CONTROLLER W/ STEP SAVER SOFTWARE, WIRED ALARM MANAGER, 115V, 2 AMPS (TYP.1)
- WADSWORTH ENVIROSTEP CONTACTOR PANEL, 115V, (15) 2 AMPS (TYP.1)
- (16) MOWSTRIP AT BUILDING PERIMETER, SEE SIDE PLAN
- ACME CAEG KOOL-CEL PAD SYSTEM (1) 35' LG x 4" (17) THICK PADS X60" TALL, SUBMERSIBLE PUMP MODEL #20S, 1/3 HP, 115V., 2.9 AMPS
- ACME WAAC6363MT MOTORIZED PAD INLET SHUTTER, (18) 115V, 0.1 AMPS, (TYP. 6)
- HOSE BIBB MOUNTED TO STEEL SUPPORT PER (19) DETAIL [C/X201]
- INTERIOR WATER PIPE MOUNTED TO STEEL SUPPORT 20 WITH DOUBLE-SIDED SADDLE STRAP
- SEE UTILITY PLAN FOR CONTINUATION OF 1" 5# G 21 LINE
- 22 SEE UTILITY PLAN FOR CONTINUATION OF 1-1/2" WATER LINE
- 1-1/2" SCH40 PVC WATER RISER ATTACHED TO STEEL 23 COLUMN WITH DOUBLE SIDED SADDLE STRAPS AT 2' SPACING ANCHORED TO COLUMN. RUN 1" WATER LATERALS IN BOTH DIRECTIONS TO SERVE THE HOSE BIBBS SHOWN ON THIS FLOOR PLAN. SET LATERALS AT 42" AFF TO CLEAR PLANTING TABLE TOPS
- 24 1" GAS RISER ATTACHED TO STEEL COLUMN WITH UNISTRUT SUPPORTS ANCHORED TO COLUMN AT 3' SPACING. SEE REFLECTED CEILING PLAN FOR CONTINUATION
- 25 1-1/2" SCH40 PVC WATER RISER ATTACHED TO STEEL COLUMN WITH DOUBLE SIDED SADDLE STRAPS AT 2' SPACING ANCHORED TO COLUMN. RUN RISER UP TO SERVE THE KOOL-CELL EVAPORATIVE COOLING SYSTEM AND THEN UP INTO ROOF FRAMING AND LATERALLY TO SERVE THE SPRAY BOOM HOSE CONNECTION ON THE NORTH END WALL. COORDINATE WITH SPRAY BOOM INSTALLATION 26 3/4" PEA GRAVEL, 3" THICK OVER, 12" OF COMPACTED

SUBGRADE

MERCED COLLEGE GREENHOUSE COMPLEX GREENHOUSE COMPLEX CONST. DOCUMENTS MAIN GREENHOUSE DR. BY: A100

FLOOR & FOUNDATION PLANS

CH. BY: ZH DATE: 03/01/2024 SCALE AS NOTED



	FOR DSA USE ONLY
	DSA APP# 02-121754
	IOTES
(1)	ROOF PURLIN WITH #12 FASTENERS
\sim	
(2)	HIGH-BAY LIGHT FIXTURE, SEE ELECTRICAL PLANS
(3)	WALLPACK LIGHT FIXTURE, SEE ELECTRICAL PLANS
4	STRUCTURAL STEEL COLUMN. SEE MANUFACTURER'S PLANS FOR ADDITIONAL INFORMATION.
5	MODINE PTP300S GAS FIRED HEATER
6	WADSWORTH ENVIROSTEP WEATHER STATION WITH MAST, MOUNTED TO EXTERIOR GABLE PEAK
7	GAS SHUT-OFF BALL VALVE
8	1" GAS RISER ATTACHED TO STEEL COLUMN WITH UNISTRUT SUPPORTS ANCHORED TO COLUMN AT 3' SPACING. RUN 3/4" GAS LATERALS AT 9'-6" AFF IN BOTH DIRECTIONS TO THE GAS-FIRED HEATERS AT BOTH ENDS OF THE BUILDING, UNISTRUT SUPPORTS AT MINIMUM 3' SPACING ANCHORED TO GREENHOUSE FRAMING
9	EWA10 90NM LOCK DRIVE ELECTRIC MOTORIZED ROOF VENT MACH. FOR RACK & PINION OPERATION.
10	8' X 8' STANDARD WINANDY STEEL ROLL -UP DOOR
(11)	CHERRY CREEK WATERING BOOM WITH BALDOR DC AND CHAIN DRIVE-1/4 HP, 2.5 AMPS (2 ROWS) SINGLE WATER BAR SETUP WITH TEEJET SPRAYS (0.8GPM) EVERY 18", WHIP HOSE WATERING ASSEMBLY COMPASS CAPTURE CONTROLLER W/ AREA CAPTURE PROGRAM.
(12)	2" X 2" SQ. STEEL WATERING BOOM TRACK
(13)	SCHAEFER VK12, 12" DIA. HAF FAN, 115V, 1/10HP, 1.3A (TYP. 4)

GREEHNOUSE BID ALTERNATE NOTES:

- 1. GREENHOUSE 3 IS AN ADDITIVE ALTERNATE UNDER THE GREENHOUSE CONTRACTOR'S CONTRACT.
- 2. THE SITE CONTRACTOR IS RESPONSIBLE FOR PREPARATION OF THE BUILDING SUBGRADE PAD FOR ALL GREENHOUSES INCLUDING OVEREXCAVATION AND COMPACTION PER THE PROJECT SPECIFICATIONS.
- 3. BASE BID FOR THE SITE CONTRACTOR INCLUDES PROVIDING WOOD MULCH WITHIN THE FOOTPRINT OF GREENHOUSE #3 AND ROUGH GRADING THE AREA TO DRAIN TO THE INLETS AS SHOWN ON SHEET A100.
- 4. IF THE ALTERNATE FOR THE CONSTRUCTION OF THE GREENHOUSE IS ACCEPTED, THE SITE CONTRACTOR SHALL REMOVE MULCHING AND ROUGH GRADING AT GREENHOUSE 3 FROM THEIR SCOPE OF WORK AND THE GREENHOUSE CONTRACTOR SHALL PROVIDE DECOMPOSED GRANITE AND FINE GRADING WITHIN THE FOOTPRINT OF GREENHOUSE 3.
- 5. BASE BID FOR THE SITE CONTRACTOR INCLUDES PROVIDING ALL UTILITIES UP TO 5' OUTSIDE OF THE GREENHOUSE BUILDING FOOTPRINTS AND CAPPING ALL UTILITIES EXCEPT FOR STORM DRAIN 5' FROM THE EXTERIOR OF GREENHOUSE 3. THE GREENHOUSE CONTRACTOR IS RESPONSIBLE FOR MAKING ALL FINAL CONNECTIONS TO THE GREENHOUSE BUILDINGS

MERCED COLLEGE GREENHOUSE COMPLEX

GREENHOUSE COMPLEX MAIN GREENHOUSE REFLECTED CEILING PLAN

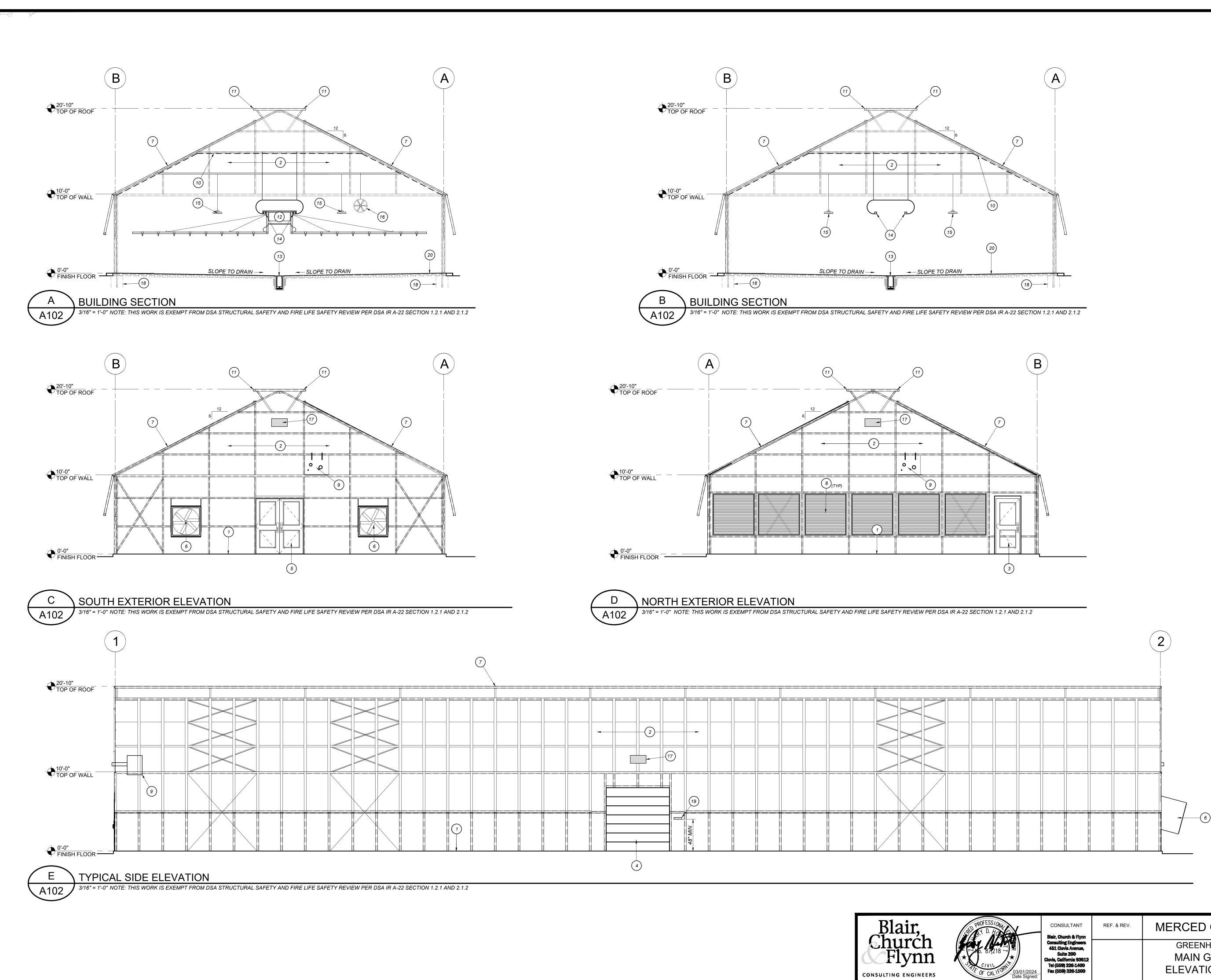
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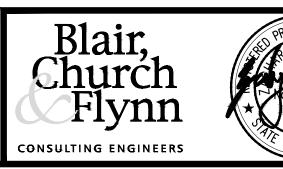
 CH. BY:
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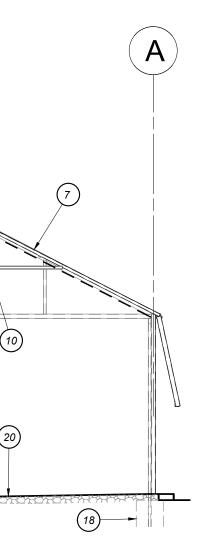
 DATE:
 03/01/2024

 SCALE AS NOTED

A101







FOR DSA USE ONLY

DSA APP# 02-121754

KEYNOTES

- GREENHOUSE INTERIOR CONCRETE SLAB PER DETAIL [I/A600], HEAVY BROOM FINISH.
- STRUCTURAL STEEL FRAMING. SEE MANUFACTURER'S (2)PLANS FOR ADDITIONAL INFORMATION.
- 3' X 7' X 1-3/4" THICK STANDARD WINANDY HALF GLASS 3 SINGLE DOOR (WITH STANDARD DOUBLE LEVER "BEST" STYLE CORE LOCK SET)
- 8' X 8' STANDARD WINANDY SHEET STEEL ROLL UP 4 DOOR, (TYP.2)
- 6' X 7' X 1-3/4" THICK STANDARD WINANDY HALF GLASS (5)DOUBLE DOOR (WITH STANDARD DOUBLE LEVER "BEST" STYLE CORE LOCK SET)
- ACME EXHAUST FAN, (2) DCA42J, 1 HP , W/WS, W/GS, (6) W/SLANT WALL HOUSING, W/INLET & OUTLET GUARD, WITH SHUTTER, 115 V
- $\overline{7}$ ROOF PURLIN WITH #12 FASTENERS
- ACME WAAC6363MT MOTORIZED PAD INLET SHUTTER, 8 115V, 0.1 AMPS, (TYP. 6)
- 9 MODINE PTP300S GAS FIRED HEATER
- TGU MOTORIZED SHADE SYSTEM WITH ALUMINET 50% 10 ICFR SHADE CLOTH SHOWN DASHED
- 36" ELECTRIC MOTORIZED RACK & PINION RIDGE (11) VENTS, SEE MANUFACTURER'S PLANS
- (12) CHERRY CREEK WATERING BOOM WITH BALDOR DC AND CHAIN DRIVE-1/4 HP, 2.5 AMPS (2 ROWS) SINGLE WATER BAR SETUP WITH TEEJET SPRAYS (0.8GPM) EVERY 18", WHIP HOSE WATERING ASSEMBLY COMPASS CAPTURE CONTROLLER W/ AREA CAPTURE PROGRAM.
- (13) V12 STORM DRAIN INLET PER DETAIL [F/X200]
- (14) 2" X 2" SQ. STEEL WATERING BOOM TRACK
- (15) HIGH-BAY LIGHT FIXTURE, SEE ELECTRICAL PLANS
- (16) SCHAEFER VK12, 12" DIA. HAF FAN, 115V, 1/10HP, 1.3A
- WALLPACK LIGHT FIXTURE, SEE ELECTRICAL PLANS (17)
- COLUMN FOOTINGS WHERE THEY OCCUR 18

(TYP. 4)

THE CBC

- MOUNT SIGN TO WALL ADJACENT TO ROLL UP DOOR (19) THAT READS "MAINTENANCE ACCESS ONLY" SIGN SHALL BE WHITE BACKGROUND WITH 1" HIGH LETTERING THAT COMPLIES WITH SECTION 11B-703 OF
- 20 3/4" PEA GRAVEL, 3" THICK OVER, 12" OF COMPACTED SUBGRADE

GREEHNOUSE BID ALTERNATE NOTES:

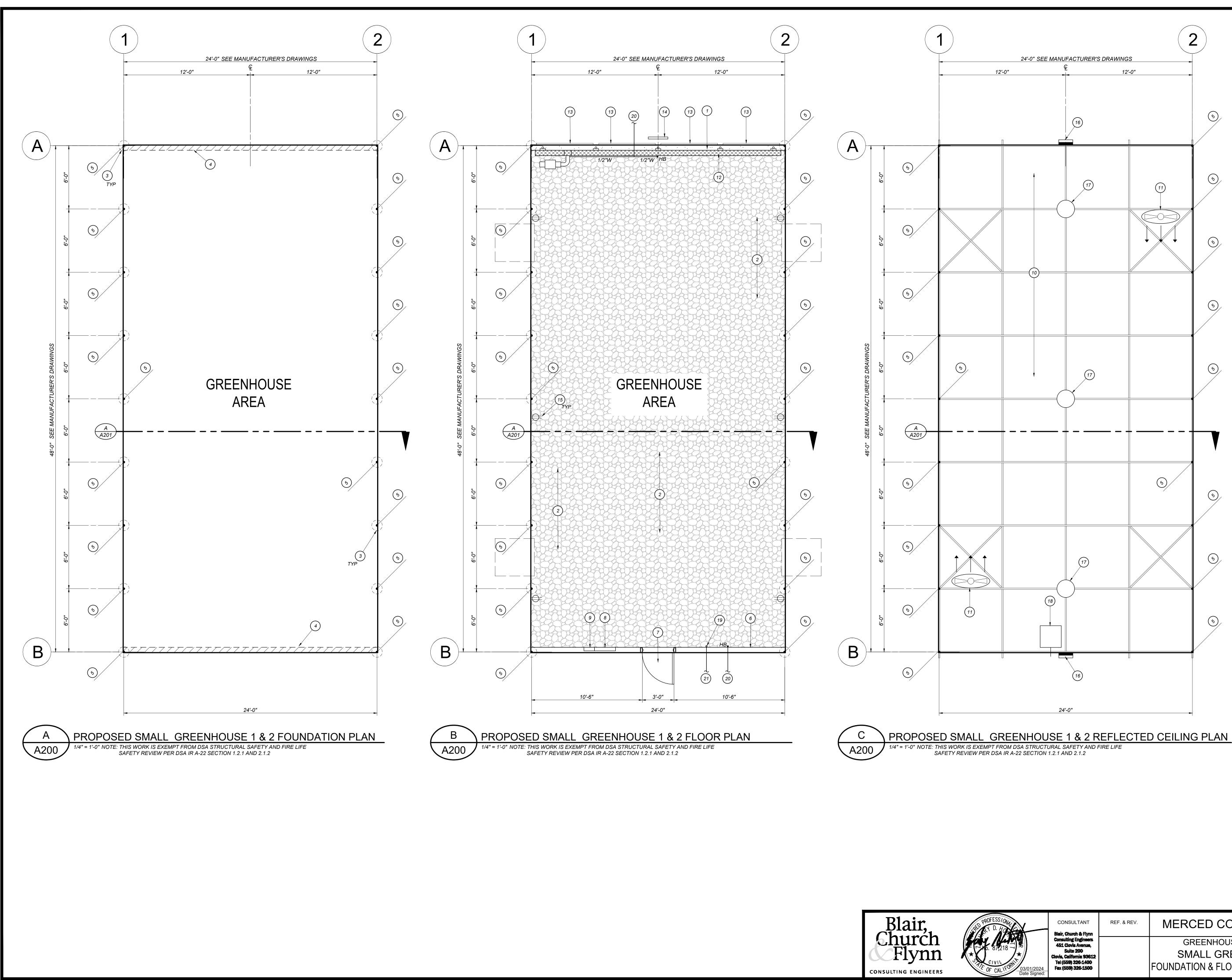
- GREENHOUSE 3 IS AN ADDITIVE ALTERNATE UNDER THE 1. GREENHOUSE CONTRACTOR'S CONTRACT.
- THE SITE CONTRACTOR IS RESPONSIBLE FOR PREPARATION OF THE BUILDING SUBGRADE PAD FOR ALL GREENHOUSES INCLUDING OVEREXCAVATION AND COMPACTION PER THE PROJECT SPECIFICATIONS.
- BASE BID FOR THE SITE CONTRACTOR INCLUDES PROVIDING З. WOOD MULCH WITHIN THE FOOTPRINT OF GREENHOUSE #3 AND ROUGH GRADING THE AREA TO DRAIN TO THE INLETS AS SHOWN ON SHEET A100.
- IF THE ALTERNATE FOR THE CONSTRUCTION OF THE GREENHOUSE IS ACCEPTED, THE SITE CONTRACTOR SHALL REMOVE MULCHING AND ROUGH GRADING AT GREENHOUSE 3 FROM THEIR SCOPE OF WORK AND THE GREENHOUSE CONTRACTOR SHALL PROVIDE DECOMPOSED GRANITE AND FINE GRADING WITHIN THE FOOTPRINT OF GREENHOUSE 3.
- 5. BASE BID FOR THE SITE CONTRACTOR INCLUDES PROVIDING ALL UTILITIES UP TO 5' OUTSIDE OF THE GREENHOUSE BUILDING FOOTPRINTS AND CAPPING ALL UTILITIES EXCEPT FOR STORM DRAIN 5' FROM THE EXTERIOR OF GREENHOUSE 3. THE GREENHOUSE CONTRACTOR IS RESPONSIBLE FOR MAKING ALL FINAL CONNECTIONS TO THE GREENHOUSE BUILDINGS

MERCED COLLEGE GREENHOUSE COMPLEX

GREENHOUSE COMPLEX MAIN GREENHOUSE **ELEVATIONS & SECTION**

CONST. DOCUMENTS DR. BY: _____ CH. BY: ____ DATE: 03/01/2024 SCALE AS NOTED

A102



	FOR DSA USE ONLY
	DSA APP# 02-121754
KEYN	NOTES
1	GREENHOUSE INTERIOR CONCRETE SLAB PER DETAIL [I/A600], HEAVY BROOM FINISH.
2	3" THICK, 3/4" GRAVEL OVER 12" COMPACTED SUBGRADE
3	12 INCH DIAMETER X 30 INCH DEEP CONCRETE FOOTING
4	6 INCH WIDE CONCRETE FOOTING X 8 INCH DEEP WITH REBAR #4 HORIZONTAL
5	STRUCTURAL STEEL COLUMN. SEE MANUFACTURER'S PLANS FOR ADDITIONAL INFORMATION.
6	EXTERIOR WALL
7	3' X 6'-8" PLYCO SERIES 20 INSULATED DOOR (WITH FALCON LEVER/ LOCKSET INCLUDES ADA THRESHOLDS AND COMMANDER PACK RHOS
8	ELECTRICAL PANEL
9	WADSWORTH ENVIROSTEP CONTACTOR PANEL, 115V, 2 AMPS (TYP.1)
10	ROOF PURLIN WITH #12 FASTENERS
(11)	SCHAEFER VK12, 12" DIA. HAF FAN, 115V, 1/10HP, 1.3A (TYP. 4)
(12)	QUIETAIRE EVAPORATIVE COOLING SYSTEM (1) 15' LONG x 4" THICK PADS x 36" TALL, SUBMERSIBLE PUMP
(13)	ACME WAAC6363MT MOTORIZED PAD INLET SHUTTER, 115V, 0.1 AMPS, (TYP. 4)
14	WADSWORTH ENVIROSTEP WEATHER STATION WITH MAST
(15)	ELECTRICAL EQUIPMENT, SEE ELECTRICAL PLANS
16	WALLPACK LIGHT FIXTURE, SEE ELECTRICAL PLANS
(17)	HIGH-BAY LIGHT FIXTURE, SEE ELECTRICAL PLANS
(18)	MODINE 'HOT DAWG' GAS-FIRED HEATER
(19)	1" GAS RISER ATTACHED TO WALL STRUTS/PURLINS. RUN UP WALL AND CONNECT TO GAS-FIRED HEATER WITH A GAS SHUT-OFF BALL VALVE ADJACENT TO THE HEATER ASSEMBLY
20	SEE UTILITY PLAN FOR WATER LINE CONNECTION FOR HOSE BIBBS AND EVAPORATION COOLER
(21)	SEE UTILITY PLAN FOR GAS LINE CONNECTION FOR GAS-FIRED HEATER
<u>GREEH</u>	NOUSE BID ALTERNATE NOTES:
	NHOUSE 3 IS AN ADDITIVE ALTERNATE UNDER THE NHOUSE CONTRACTOR'S CONTRACT.
OF TH INCLU	SITE CONTRACTOR IS RESPONSIBLE FOR PREPARATION HE BUILDING SUBGRADE PAD FOR ALL GREENHOUSES JDING OVEREXCAVATION AND COMPACTION PER THE ECT SPECIFICATIONS.
	BID FOR THE SITE CONTRACTOR INCLUDES PROVIDING

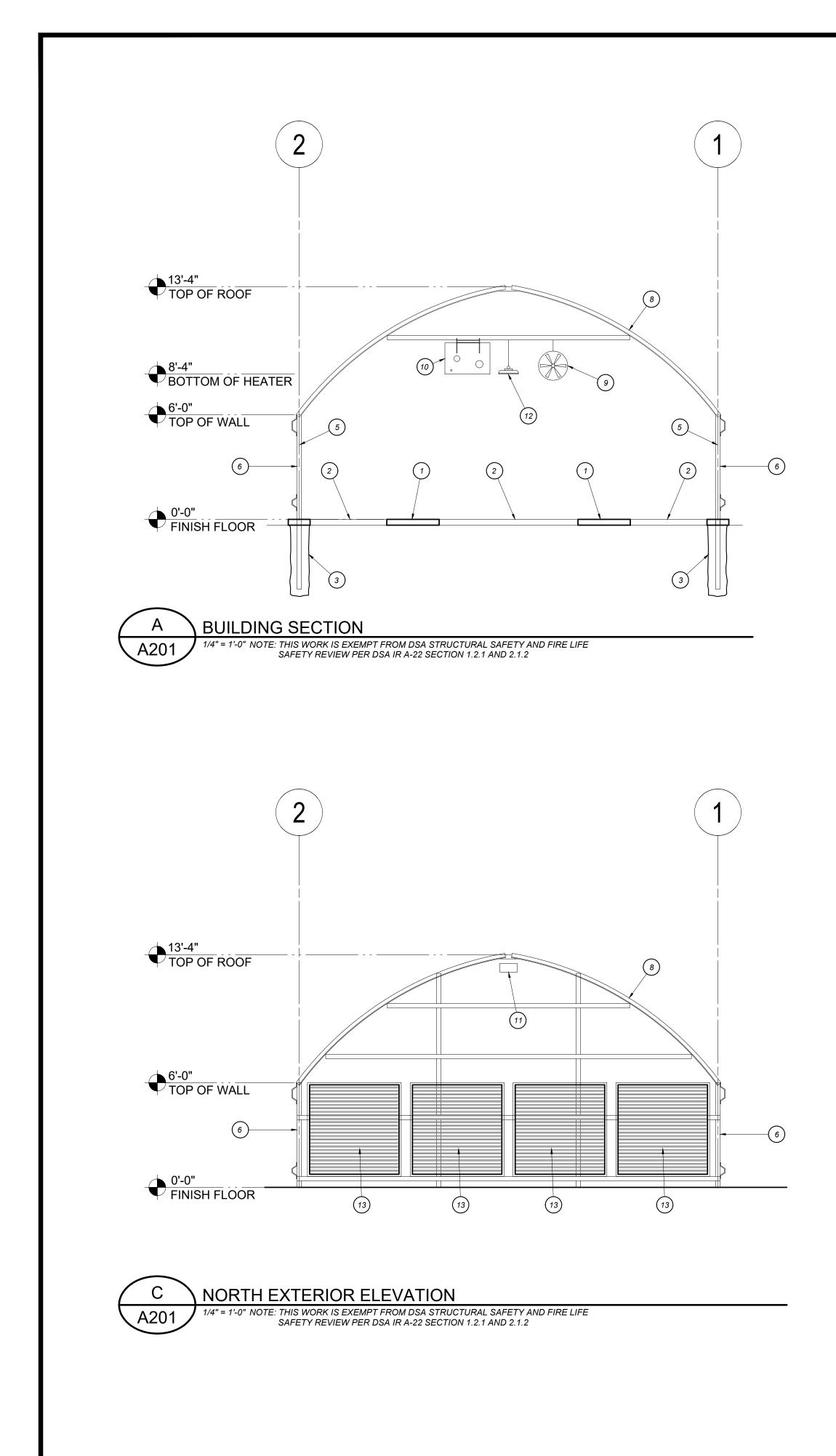
- BASE BID FOR THE SITE CONTRACTOR INCLUDES PROVIDING З. WOOD MULCH WITHIN THE FOOTPRINT OF GREENHOUSE #3 AND ROUGH GRADING THE AREA TO DRAIN TO THE INLETS AS SHOWN ON SHEET A100.
- IF THE ALTERNATE FOR THE CONSTRUCTION OF THE GREENHOUSE IS ACCEPTED, THE SITE CONTRACTOR SHALL REMOVE MULCHING AND ROUGH GRADING AT GREENHOUSE 3 FROM THEIR SCOPE OF WORK AND THE GREENHOUSE CONTRACTOR SHALL PROVIDE DECOMPOSED GRANITE AND FINE GRADING WITHIN THE FOOTPRINT OF GREENHOUSE 3.
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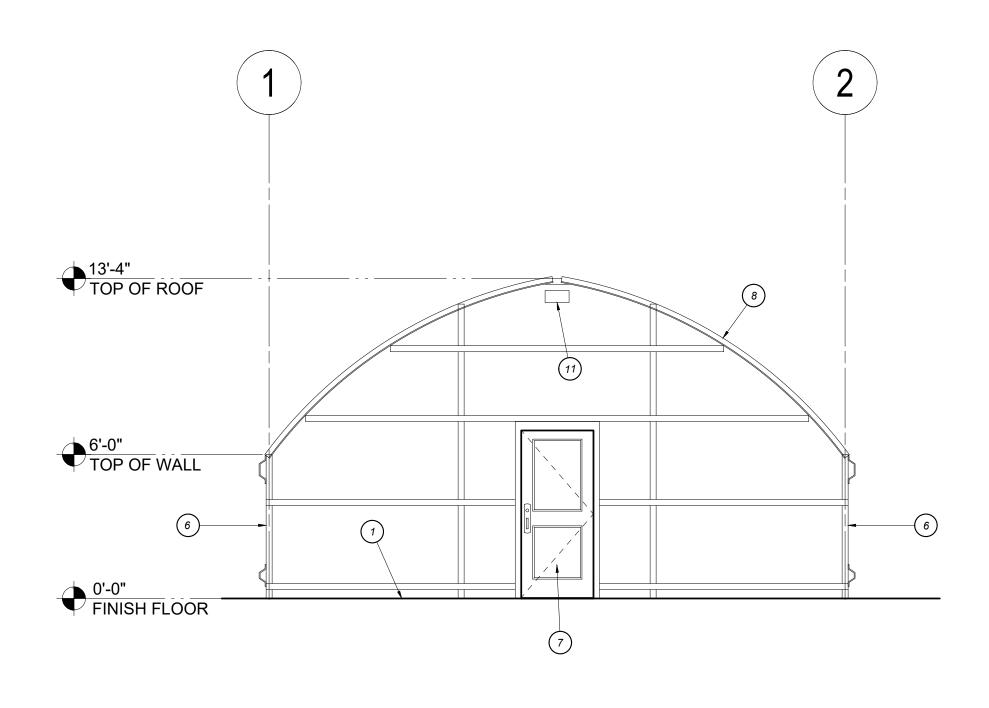
MERCED COLLEGE GREENHOUSE COMPLEX

GREENHOUSE COMPLEX SMALL GREENHOUSE FOUNDATION & FLOOR & CEILING PLANS

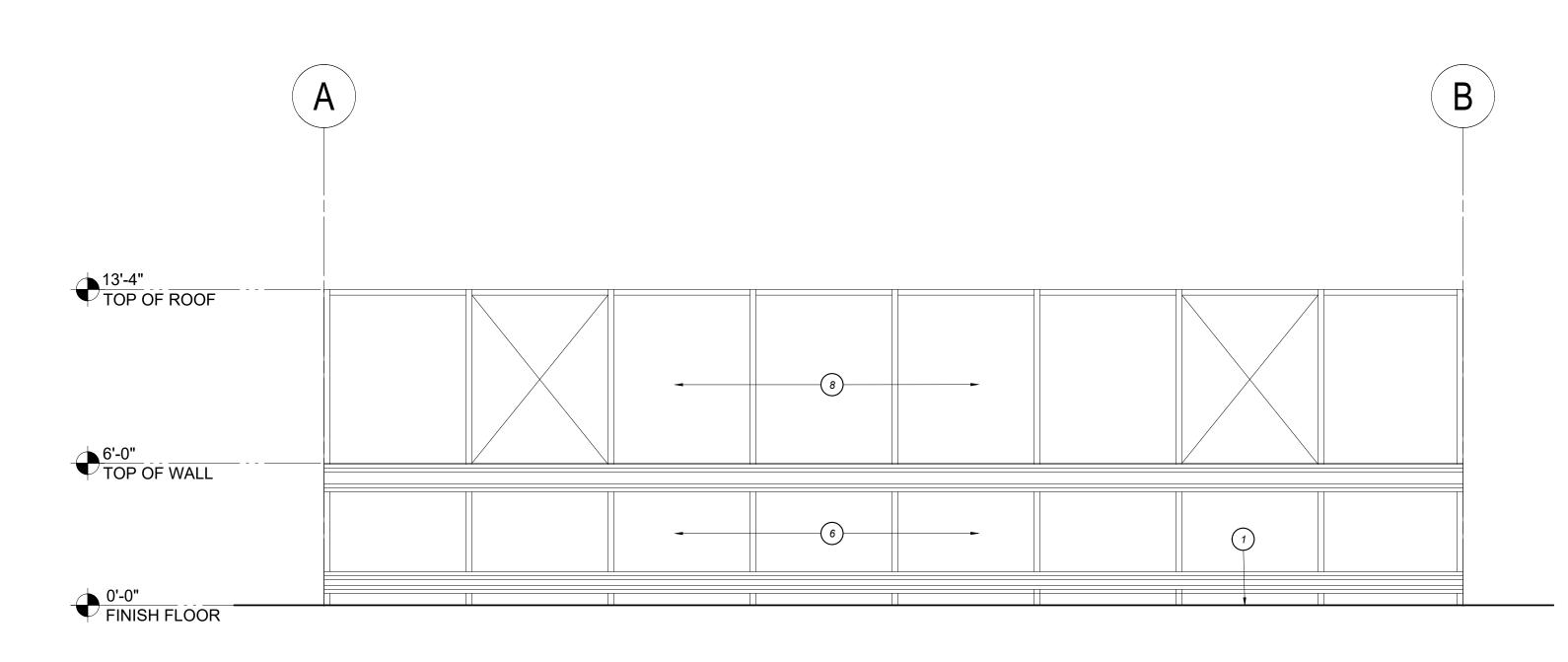
CONST. DOCUMENTS

A200





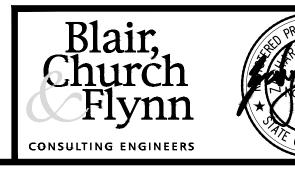






EAST/ WEST EXTERIOR ELEVATION

1/4" = 1'-0" NOTE: THIS WORK IS EXEMPT FROM DSA STRUCTURAL SAFETY AND FIRE LIFE SAFETY REVIEW PER DSA IR A-22 SECTION 1.2.1 AND 2.1.2



FOR DSA USE ONLY

DSA APP# 02-121754

KEYNOTES

- GREENHOUSE INTERIOR CONCRETE SLAB PER DETAIL [I/A600], HEAVY BROOM FINISH.
- 6" THICK, 3/4" GRAVEL OVER COMPACTED SUBGRADE (2)
- 3 12 INCH DIAMETER X 30 INCH DEEP CONCRETE
- FOOTING 6 INCH WIDE CONCRETE FOOTING X 8 INCH DEEP 4
- WITH REBAR #4 HORIZONTAL STRUCTURAL STEEL COLUMN. SEE MANUFACTURER'S
- 5 PLANS FOR ADDITIONAL INFORMATION.
- 6 EXTERIOR WALL
- 3' X 6'-8" PLYCO SERIES 20 INSULATED DOOR (WITH FALCON LEVER/ LOCKSET INCLUDES ADA THRESHOLDS AND COMMANDER PACK RHOS (7)
- (8) ROOF PURLIN WITH #12 FASTENERS
- SCHAEFER VK12, 12" DIA. HAF FAN, 115V, 1/10HP, 1.3A (TYP. 4) 9
- (10) MODINE 'HOT DAWG' GAS-FIRED HEATER
- 11 100 W LED WALLPACK
- (12) 150 W HIGH-BAY LED
- ACME WAAC6363MT MOTORIZED PAD INLET SHUTTER, (13) 115V, 0.1 AMPS, (TYP. 4)

GREEHNOUSE BID ALTERNATE NOTES:

- GREENHOUSE 3 IS AN ADDITIVE ALTERNATE UNDER THE 1 GREENHOUSE CONTRACTOR'S CONTRACT.
- 2. THE SITE CONTRACTOR IS RESPONSIBLE FOR PREPARATION OF THE BUILDING SUBGRADE PAD FOR ALL GREENHOUSES INCLUDING OVEREXCAVATION AND COMPACTION PER THE PROJECT SPECIFICATIONS.
- 3. BASE BID FOR THE SITE CONTRACTOR INCLUDES PROVIDING WOOD MULCH WITHIN THE FOOTPRINT OF GREENHOUSE #3 AND ROUGH GRADING THE AREA TO DRAIN TO THE INLETS AS SHOWN ON SHEET A100.
- 4. IF THE ALTERNATE FOR THE CONSTRUCTION OF THE GREENHOUSE IS ACCEPTED. THE SITE CONTRACTOR SHALL REMOVE MULCHING AND ROUGH GRADING AT GREENHOUSE 3 FROM THEIR SCOPE OF WORK AND THE GREENHOUSE CONTRACTOR SHALL PROVIDE DECOMPOSED GRANITE AND FINE GRADING WITHIN THE FOOTPRINT OF GREENHOUSE 3.
- BASE BID FOR THE SITE CONTRACTOR INCLUDES PROVIDING 5. ALL UTILITIES UP TO 5' OUTSIDE OF THE GREENHOUSE BUILDING FOOTPRINTS AND CAPPING ALL UTILITIES EXCEPT FOR STORM DRAIN 5' FROM THE EXTERIOR OF GREENHOUSE 3. THE GREENHOUSE CONTRACTOR IS RESPONSIBLE FOR MAKING ALL FINAL CONNECTIONS TO THE GREENHOUSE BUILDINGS

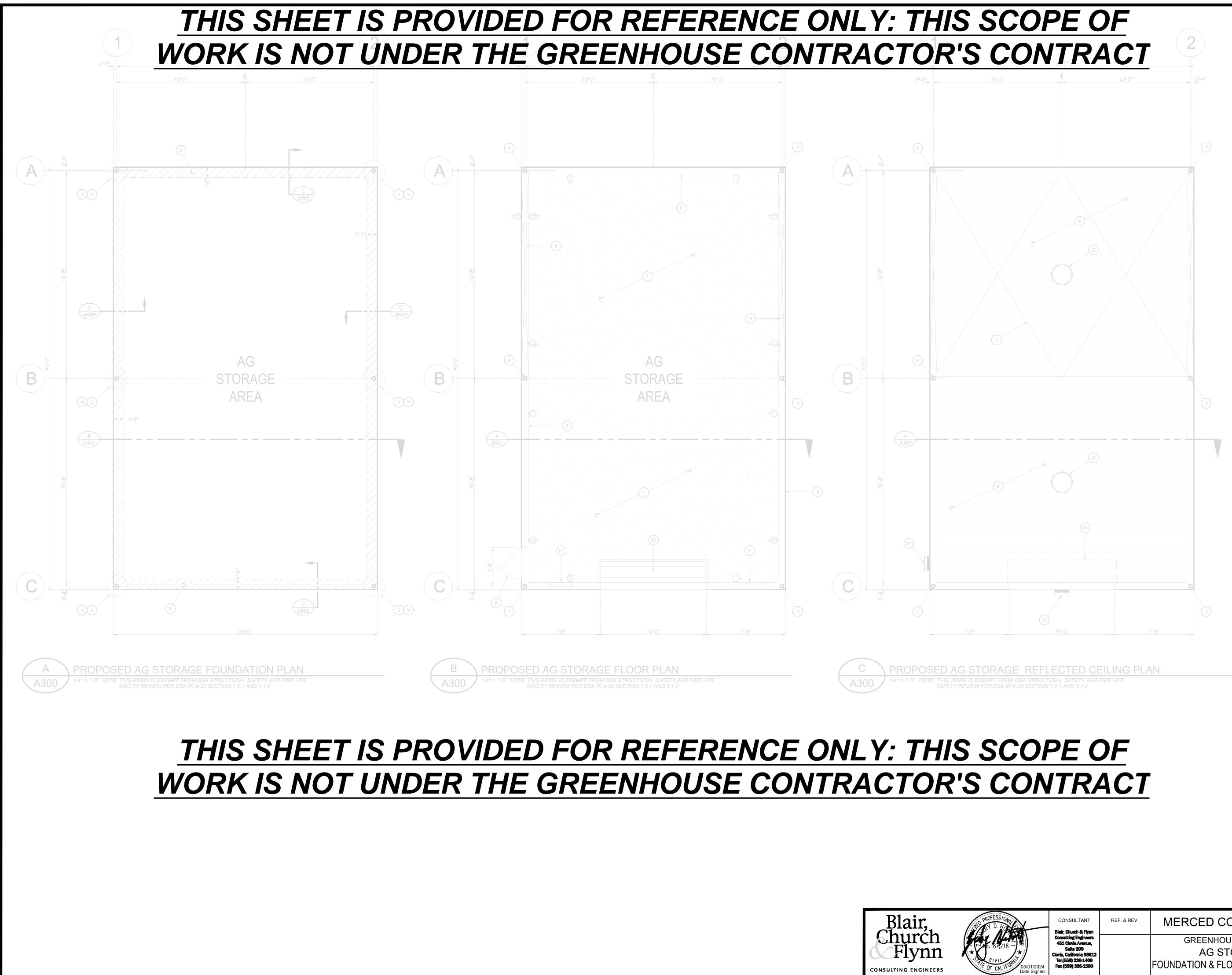
MERCED COLLEGE GREENHOUSE COMPLEX

GREENHOUSE COMPLEX SMALL GREENHOUSE **ELEVATIONS & SECTIONS**

CONST. DOCUMENTS DR. BY: <u>AH</u> CH. BY: <u>ZH</u> DATE: <u>03/01/2024</u> SCALE AS NOTED A201

Clovis, California 93612 Tel (559) 326-1400 Fax (559) 326-1500

REF. & REV. CONSULTANT Blair, Church & Flynn Consulting Engineers 451 Clovis Avenue, Suite 200



MERCED COLLEGE GREENHOUSE COMPLEX

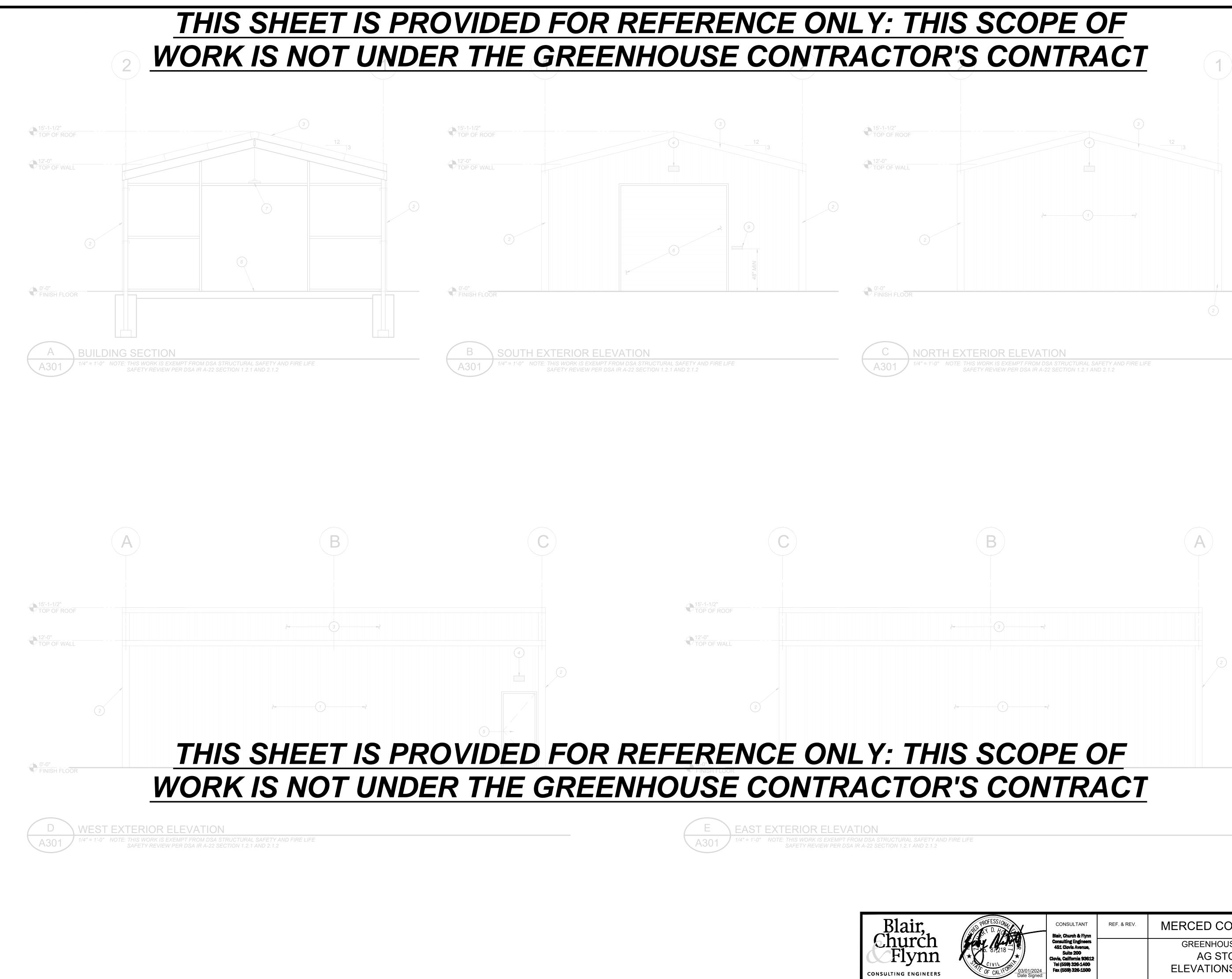
GREENHOUSE COMPLEX AG STORAGE FOUNDATION & FLOOR & CEILING PLANS SCALE AS NOTED

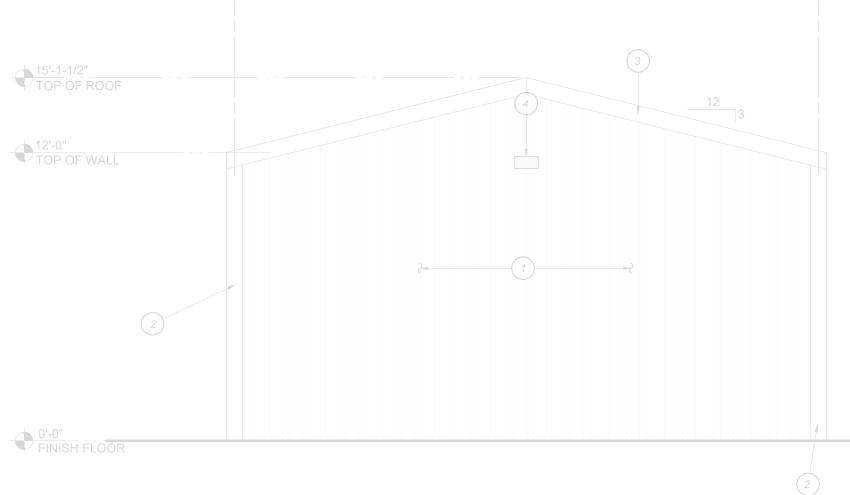
CONST. DOCUMENTS

A300

DSA APP# 02-121754

KEYNOTES







DSA APP# 02-121754

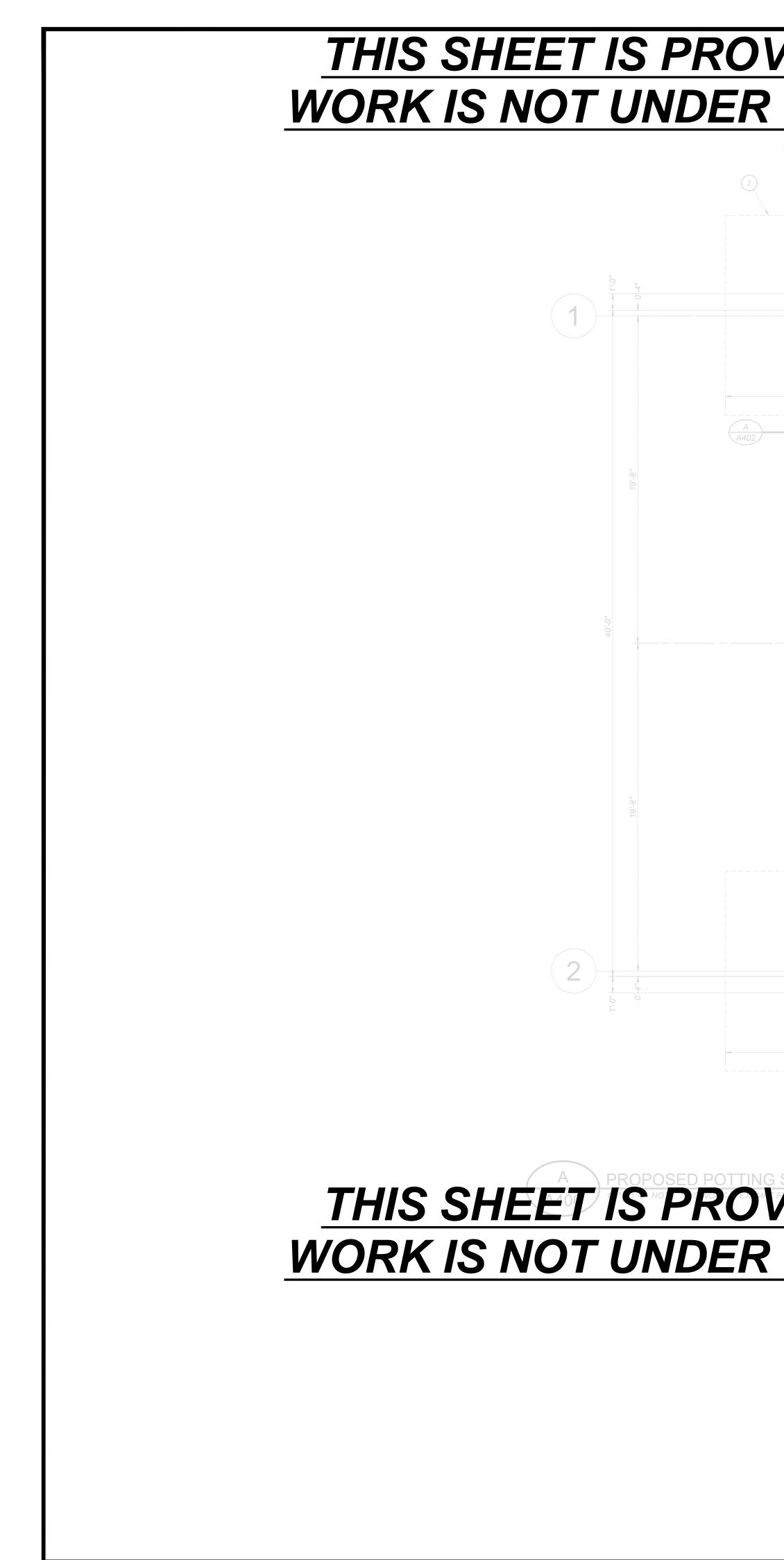
KEYNOTES

- (5) 3' X 7' METAL DOOR
- (6) 10' X 10' METAL ROLL-UP DOOR

MERCED COLLEGE GREENHOUSE COMPLEX

GREENHOUSE COMPLEX AG STORAGE **ELEVATIONS & SECTION**

CONST. DOCUMENT DR. BY: CH. BY: A301 DATE: 03/01/2024 SCALE AS NOTED



THIS SHEET IS PROVIDED FOR REFERENCE ONLY: THIS SCOPE OF WORK IS NOT UNDER THE GREENHOUSE CONTRACTOR'S CONTRACT

10			50'-0"	
0'-6			16'-4"	16'-4"
	···12'-Ò"			
_				
		PC	TTING SHADE	
		PC	AREA	
		PC		
		PC		

<u>THIS SHEET IS PROVIDED FOR REFERENCE ONLY: THIS SCOPE OF</u> WORK IS NOT UNDER THE GREENHOUSE CONTRACTOR'S CONTRACT



FOR DSA USE ONLY

KEYNOTES

- (1) CONCRETE SIDEWALK PER DETAIL [A/X100]
- 24 INCH DIAMETER X 48 INCH DEEP CONCRETE COLUMN FOOTING
- 3 8 INCH WIDE CONCRETE FOOTING X 8 INCH DEEF
- A STRUCTURAL STEEL COLUMN. SEE STRUCTURAL
- 5/8 INCH DIAMETER HIGH STRENGTH CABLE AT
- 7 5/8 INCH DIAMETER HIGH STRENGTH CABLE AT ROOF
- 8 ROOF PURLIN WITH #12 FASTENERS
- 9 3' X 7' METAL DOOR
- (10) 10' X 10' METAL DOOR
- (1) ELECTRICAL PANEL



CONSULTANT REF. & REV. Blair, Church & Flynn Consulting Engineers 451 Clovis Avenue,

Suite 200 Clovis, California 93612 Tel (559) 326-1400 Fax (559) 326-1500

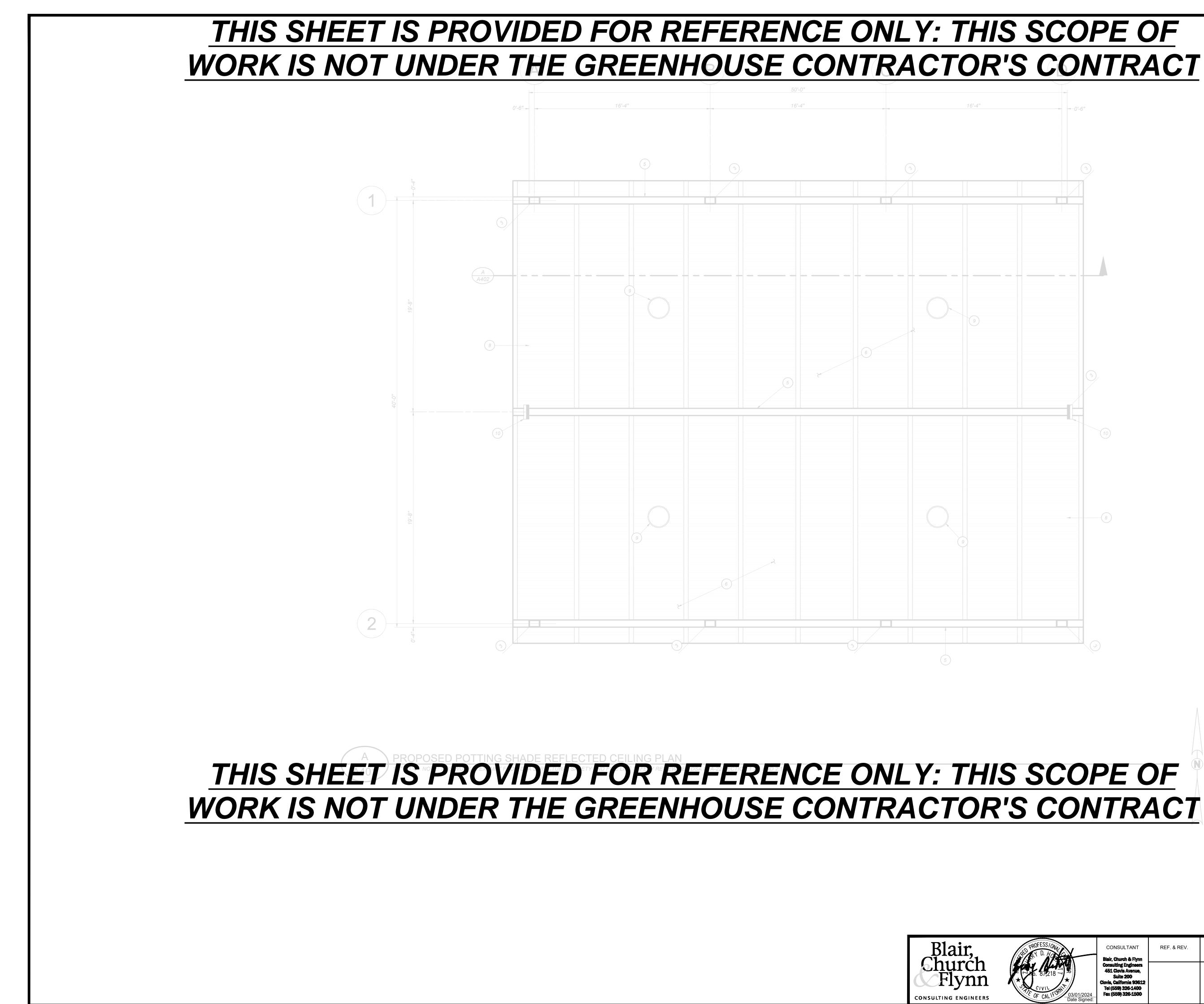
MERCED COLLEGE GREENHOUSE COMPLEX

GREENHOUSE COMPLEX POTTING SHADE FLOOR & FOUNDATION PLAN

CONST. DOCUMENTS

P.1222_03141Site/productiondrawings

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DSA APP# 02-121754

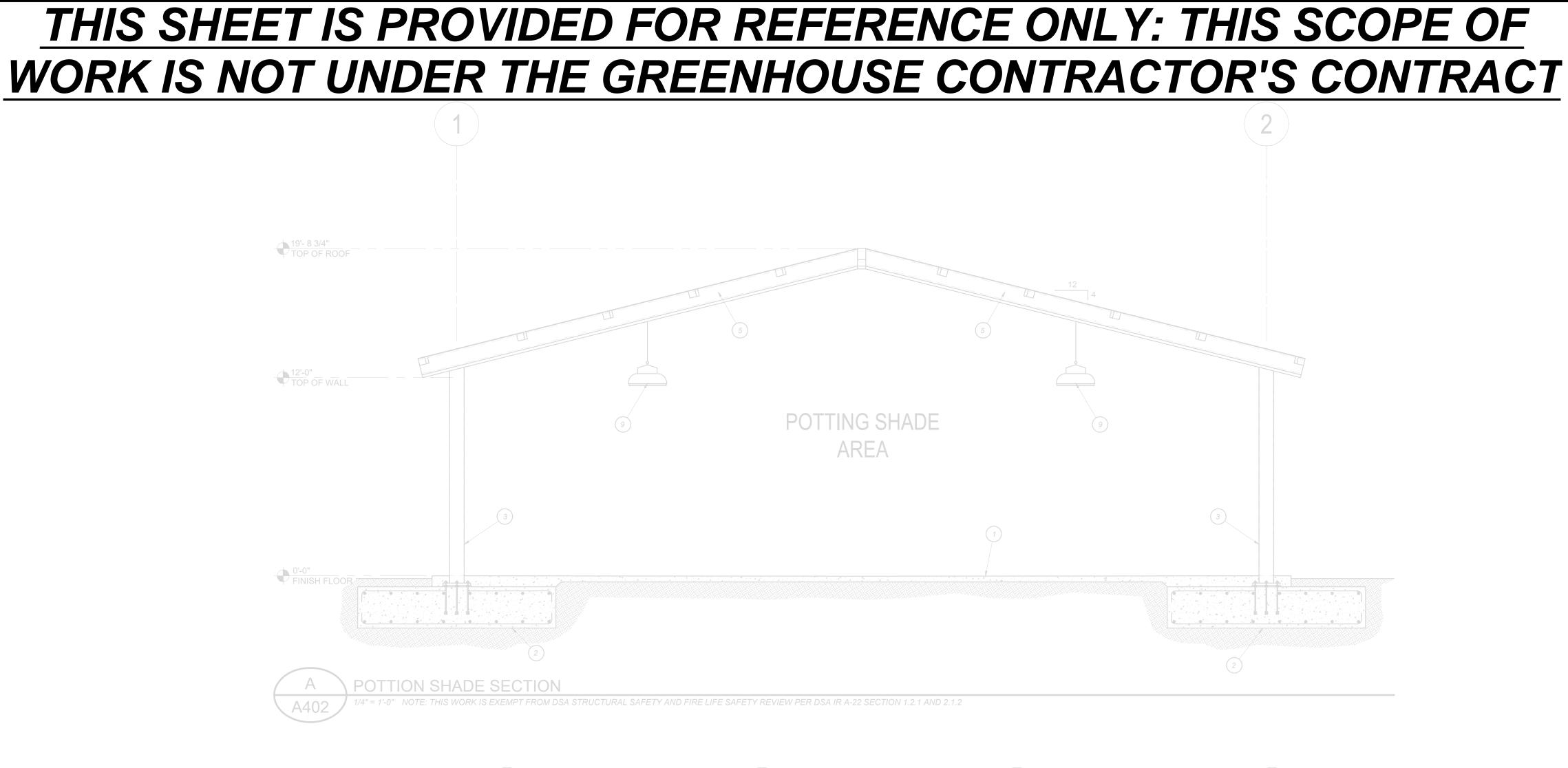
KEYNOTES

- CONCRETE SIDEWALK PER DETAIL [A/X100]
- 36 INCH DIAMETER X 54 INCH DEEP CONCRETE

MERCED COLLEGE GREENHOUSE COMPLEX

GREENHOUSE COMPLEX POTTING SHADE **CEILING PLAN**

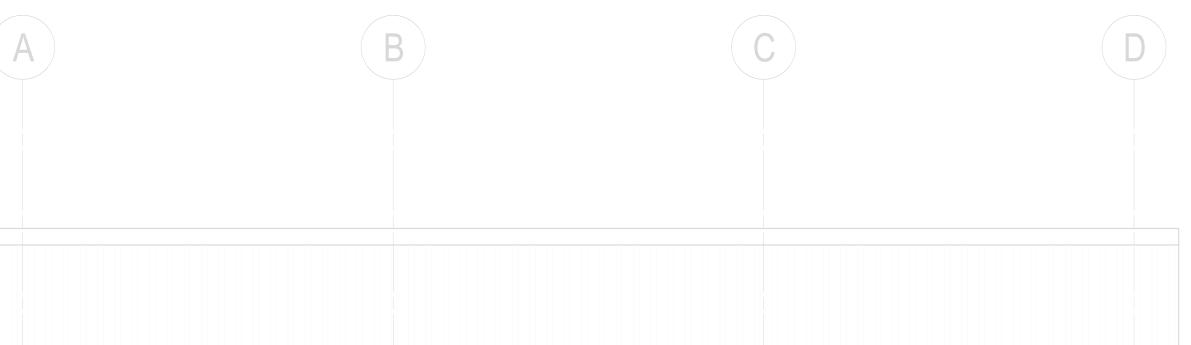
CONST. DOCUMENTS DR. BY: <u>AH</u> CH. BY: <u>ZH</u> DATE: <u>03/01/2024</u> A401 SCALE AS NOTED

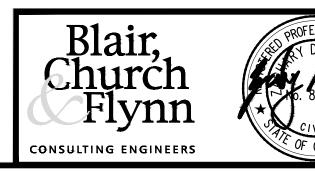


19'- 8 3/4" TOP OF ROOF









DSA APP# 02-121754

KEYNOTES



Clovis, California 93612 Tel (559) 326-1400 Fax (559) 326-1500

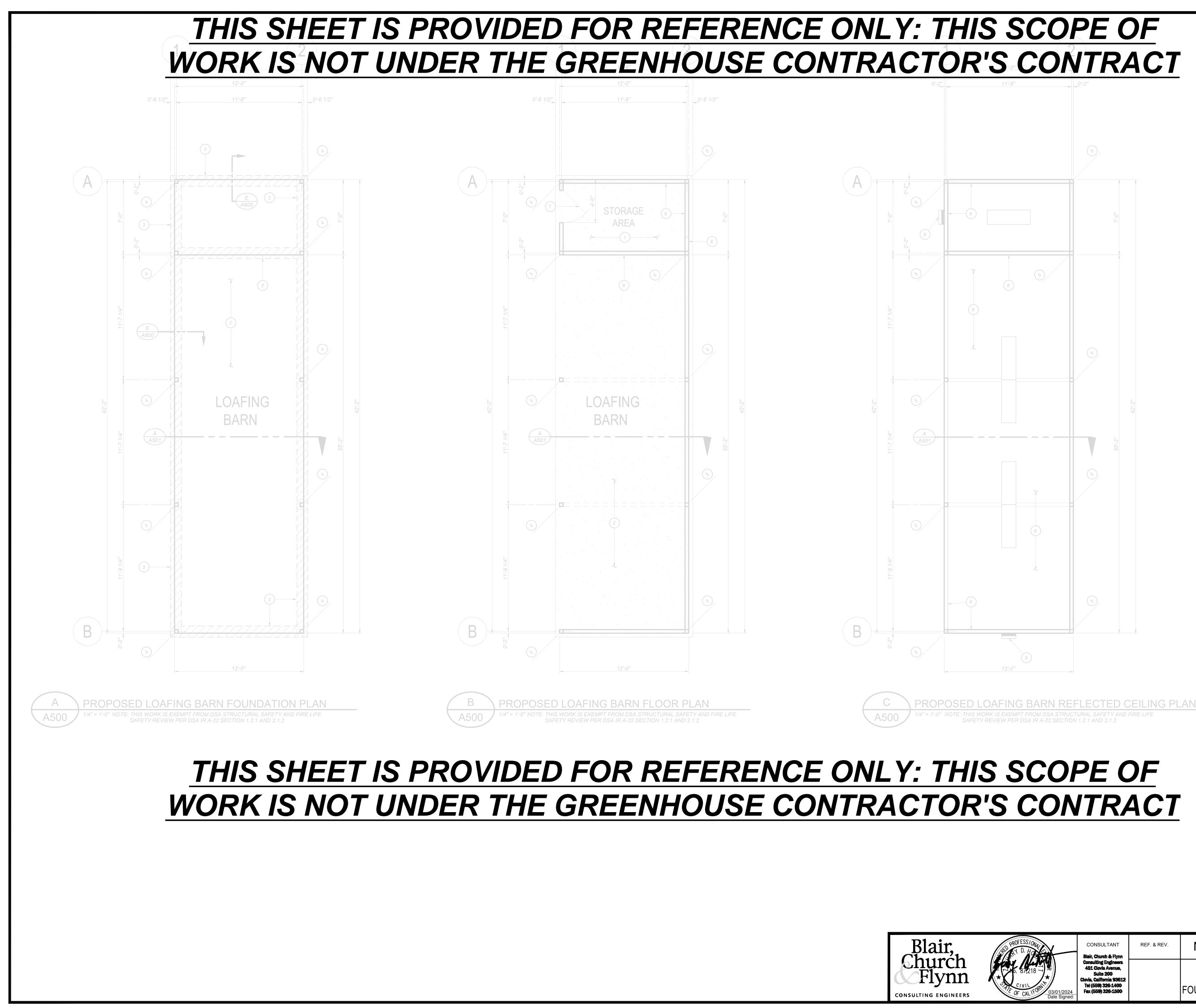
Suite 200

CONSULTANT REF. & REV. Blair, Church & Flyn Consulting Engineers 451 Clovis Avenue,

MERCED COLLEGE GREENHOUSE COMPLEX

GREENHOUSE COMPLEX POTTING SHADE **ELEVATION & SECTION**

CONST. DOCUMENTS DR. BY: <u>AH</u> CH. BY: <u>ZH</u> DATE: <u>03/01/2024</u> A402 SCALE AS NOTED



REF. & REV.

MERCED COLLEGE GREENHOUSE COMPLEX

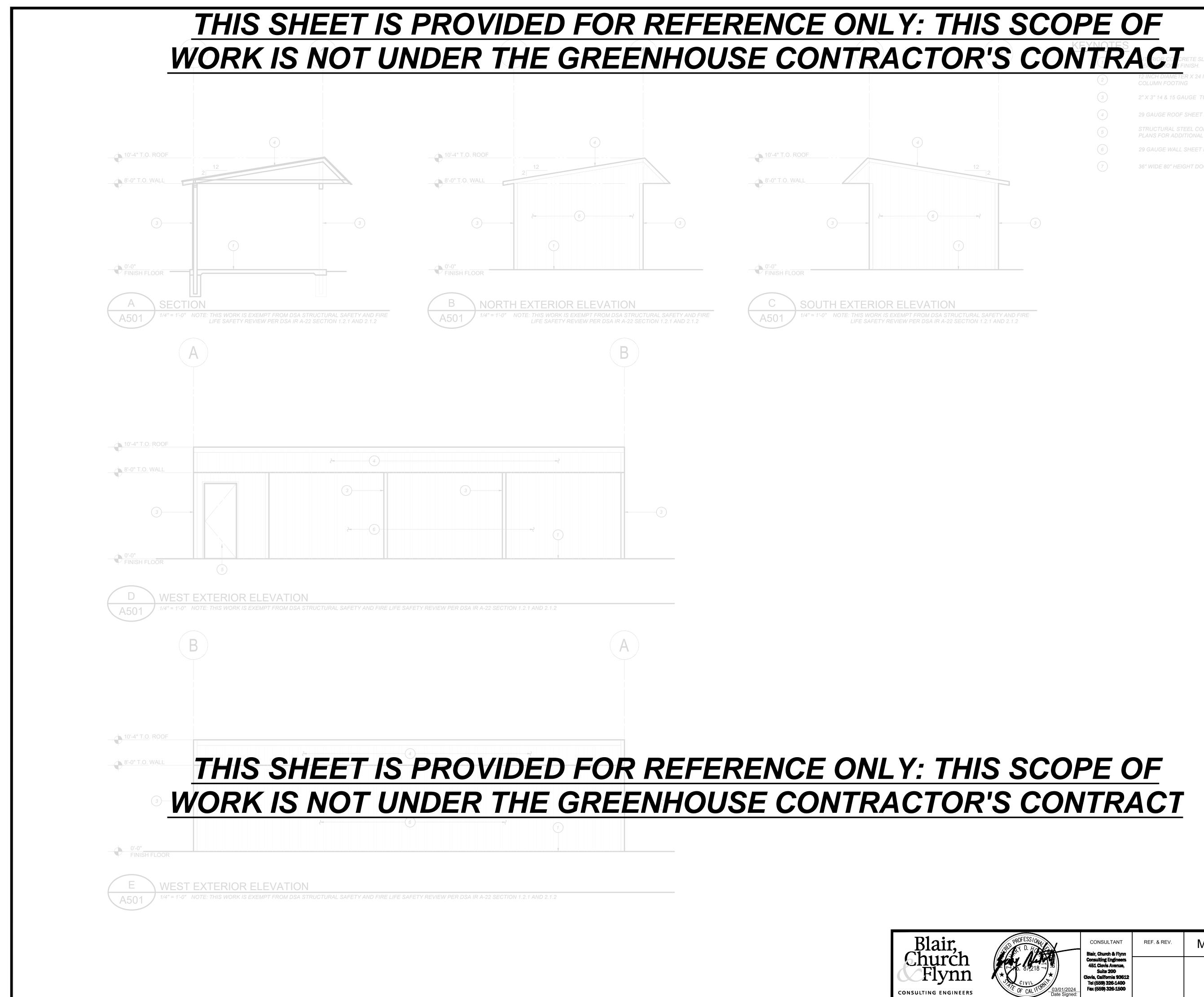
GREENHOUSE COMPLEX LOAFING BARN FOUNDATION & FLOOR & CEILING PLANS SCALE AS NOTED

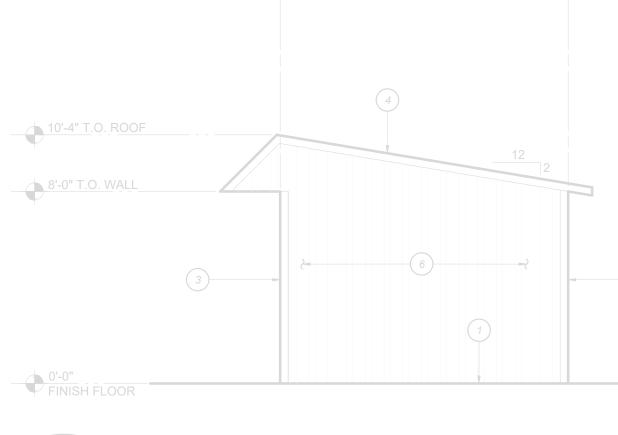
CONST. DOCUMENTS A500

DSA APP# 02-121754

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)	INTERIOR CONCRETE SLAB PER DETAIL [I/A600], HEAVY BROOM FINISH.
	HEAVY DUTY CONCRETE SLAB PER DETAIL [J/A600]
	12 INCH WIDE CONCRETE FOOTING X 12 INCH DEEP WITH REBAR #4 TOP AND BOTTOM
)	12 INCH DIAMETER X 24 INCH DEEP CONCRETE COLUMN FOOTING
)	STRUCTURAL STEEL COLUMN. SEE STRUCTURAL PLANS FOR ADDITIONAL INFORMATION.
)	EXTERIOR WALL
	36" WIDE 80" HEIGHT DOOR
	29 GAUGE SHEET METAL PANELS





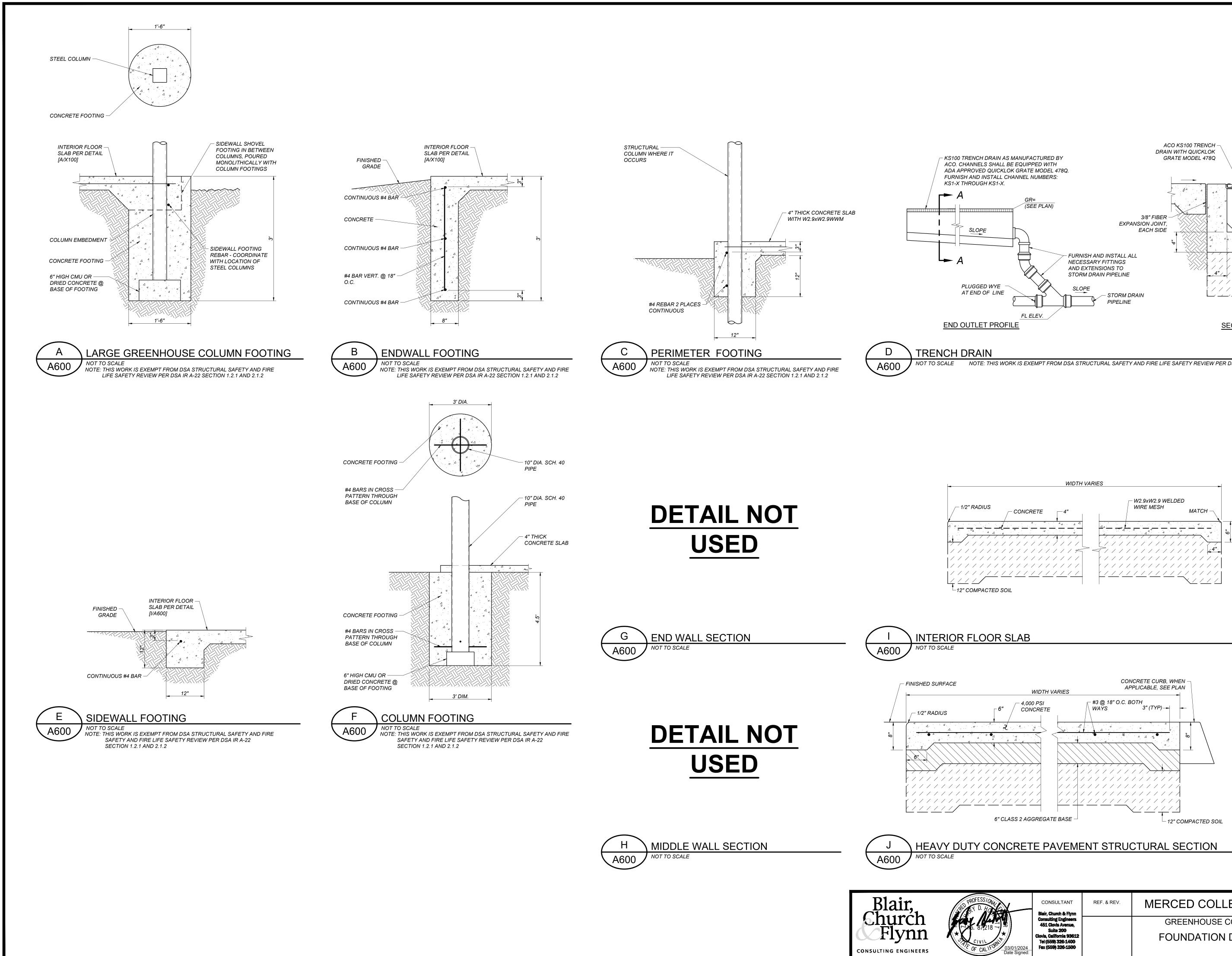
- 2" X 3" 14 & 15 GAUGE TUBING GALVANIZED STEEL

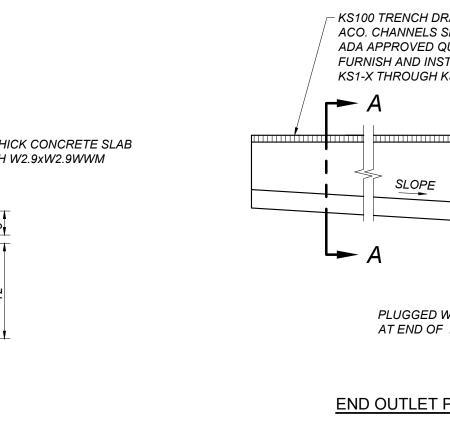
MERCED COLLEGE GREENHOUSE COMPLEX **GREENHOUSE COMPLEX** LOAFING BARN **ELEVATIONS & SECTION**

CONST. DOCUMENTS DR. BY: CH. BY: A501 DATE: 03/01/2024

SCALE AS NOTED

DSA APP# 02-121754





FOR DSA USE ONLY DSA APP# 02-121754

– 1/4" RADIUS -- CONCRETE SIDEWALK - CONCRETE <u>4"/ / / 🏹 / 🗸 4"</u> · / / / / / / X / / └── 12" COMPACTED SOIL SECTION A-A

NOTE: THIS WORK IS EXEMPT FROM DSA STRUCTURAL SAFETY AND FIRE LIFE SAFETY REVIEW PER DSA IR A-22 SECTION 1.2.1 AND 2.1.2

MERCED COLLEGE GREENHOUSE COMPLEX GREENHOUSE COMPLEX CONST. DOCUMENTS

FOUNDATION DETAILS

 DR. BY:
 AH

 CH. BY:
 ZH

 DATE:
 03/01/2024

 SCALE AS NOTED
 A600

GENERAL NOTES

- PUBLICATIONS:
- APPLICABLE.
- 2
- 3

- SHALL GOVERN.

4

- 5. EQUIPMENT ANCHORAGE NOTE 7-10 SECTIONS 13.3, 13.4 & 13.6.

- ITEM 2.
- E. OR F

- WALL

- DISTRIBUTION SYSTEMS.
- MECHANICAL SYSTEMS
- 1
- 2
- 3

GREEHNOUSE BID ALTERNATE NOTES

CODE COMPLIANCE: ALL WORK SHALL CONFORM TO AND BE PERFORMED IN ACCORDANCE WITH CODES, STANDARDS, AND ORDINANCES AS SET FORTH BY THE AUTHORITIES HAVING JURISDICTION AND THEIR LATEST ADOPTED EDITIONS (IN EFFECT AT TIME OF BUILDING PERMIT APPLICATION) OF THE FOLLOWING

A. CALIFORNIA CODE OF REGULATIONS TITLE 24; INCLUDES 2022 CALIFORNIA ELECTRICAL CODE, 2022 CALIFORNIA FIRE CODE, 2022 CALIFORNIA BUILDING CODE, ETC. WITH LOCAL AMENDMENTS AS

B. AMERICANS WITH DISABILITIES ACT (ADA).

SAFETY: THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO MAINTAIN ALL EQUIPMENT IN A SAFE AND RESPONSIBLE MANNER. KEEP DEAD FRONT EQUIPMENT IN PLACE WHILE EQUIPMENT IS ENERGIZED. CONDUCT ALL CONSTRUCTION OPERATIONS IN A SAFE MANNER FOR EMPLOYEES AS WELL AS OTHER WORKPERSONS OR ANYONE VISITING THE JOB SITE. PROVIDE BARRIERS, FLAGS, TAPE, ETC. AS REQUIRED FOR SAFETY. THE CONTRACTOR SHALL HOLD ALL PARTIES HARMLESS OF NEGLIGENT SAFETY PRACTICES, WHICH MAY CAUSE INJURY TO OTHERS ON OR NEAR THE JOB SITE.

FIRE RATED ASSEMBLIES SHALL MAINTAIN RATINGS AS SPECIFIED IN THE CALIFORNIA BUILDING CODE CHAPTER 7. CONTRACTOR SHALL PROVIDE AND INSTALL PHYSICAL ENCLOSURE AROUND FIXTURES, PANELS, ETC. AS REQUIRED. ALL ASSEMBLIES TO BE PENETRATED SHALL BE INSTALLED WITH APPLICABLE THROUGH-PENETRATION FIRESTOP SYSTEM AS DETERMINED BY UL CLASSIFICATION. BEFORE CONSTRUCTION, VERIFY AND COMPLY WITH REQUIREMENTS OF LOCAL AUTHORITY HAVING JURISDICTION.

MOUNTING HEIGHTS SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:

+15" AFF: RECEPTACLES, TELEPHONE, TV & DATA OUTLETS. (MEASURED BOTTOM OF OUTLET BOX) +46" AFF: OUTLET ABOVE COUNTER (MEAUSRED TOP OF OUTLET BOX) +48" AFF: LIGHT SWITCHES. (MEASURED TOP OF OUTLET BOX)

+48" AFF: FIRE ALARM MANUAL PULL STATIONS, T-STATS. (MEASURED TOP OF OUTLET BOX) THE LOWER OF +80" AFF TO BOTTOM OF LENS, OR 6" BELOW CEILING: FIRE ALARM VISUALS.

ELECTRICAL SWITCHES: CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA TO CONTROL LIGHT AND RECEPTACLE OUTLETS. APPLIANCES OR COOLING. HEATING AND VENTILATING EQUIPMENT, SHALL BE LOCATED NO MORE THAN 48 INCHES MEASURED FROM THE TOP OF THE OUTLET BOX NOR LESS THAN 15 INCHES MEASURED FROM THE BOTTOM OF THE OUTLET BOX TO THE LEVEL OF THE FINISH FLOOR OR WORKING PLATFORM. [CBC 11B-308.1.1]

ELECTRICAL RECEPTACLE OUTLETS: ELECTRICAL RECEPTACLE OUTLETS ON BRANCH CIRCUITS OF 30 AMPERES OR LESS AND COMMUNICATION SYSTEM RECEPTACLES SHALL BE LOCATED NO MORE THAN 48 INCHES MEASURED FROM THE TOP OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING NOR LESS THAN 15 INCHES MEASURED FROM THE BOTTOM OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING TO THE LEVEL OF THE FINISH FLOOR OR WORKING PLATFORM [CBC 11B-308.1.2]

BEFORE ROUGH-IN, VERIFY ALL MOUNTING HEIGHTS AND EXACT LOCATIONS FOR ALL EQUIPMENT ELECTRICAL CONNECTIONS, STUB-UPS, RECEPTACLES, OUTLETS, ETC. WITH ARCHITECT OR OWNER. PLACE DEVICES LOCATED ABOVE COUNTERS, SHELVING, ETC. AND IN BATHROOMS SO AS NOT TO CONFLICT WITH EDGES OF WAINSCOTING, COUNTER SPLASH, SHELVING, ETC. ARCHITECTURAL SHEETS

LABEL PANELS, CABINETS, BACKBOARDS, MAIN DEVICES, SAFETY SWITCHES, CONTACTORS AND OTHER SPECIFICALLY DESIGNATED EQUIPMENT SHOWN ON PLANS. USE ENGRAVED LAMINATED PLASTIC NAMEPLATES ATTACHED BY SCREWS OR RIVETS. FOR FEEDERS, NEATLY AND INDELIBLY LABEL CONDUIT DESTINATIONS ON BOTH VISIBLE ENDS OF CONDUIT RUNS WHERE CONDUITS TERMINATE AT DESIGNATED ENCLOSURES, STRUCTURES OR EQUIPMENT (INCLUDING PULL AND SPLICE BOXES).

ALL MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE ANCHORED OR BRACED TO MEET THE HORIZONTAL AND VERTICAL FORCES PRESCRIBED IN THE 2022 CBC, SECTIONS 1613A AND 1616A AND ASCE

THE ATTACHMENT OF THE FOLLOWING ITEMS SHALL BE DESIGNED TO RESIST THE FORCES PRESCRIBED ABOVE, BUT NEED NOT BE DETAILED ON THE PLANS PER 202 CBC SECTION 1616A.1.18:

A. FURNITURE(EXCEPT STORAGE CABINETS AS NOTED IN 2022 CBC TABLE 13.5-1) TEMPORARY OR MOVABLE EQUIPMENT WITH EXCEPTIONS NOTED IN 2022 CBC SECTION 1616A.1.18

ARCHITECTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS IN SEISMIC DESIGN CATEGORIES D,

THAT MEET ALL OF THE CRITERIA LISTED IN 2022 SECTION 1616A.1.18 ITEM 3. EQUIPMENT WEIGHING LESS THAN 20 POUNDS SUPPORTED BY VIBRATION ISOLATORS. EQUIPMENT WEIGHING LESS THAN 20 POUNDS SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE MECHANICAL/ELECTRICAL ENGINEER.

ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.8, 13.6.7, 13.6.5.6 AND 2022 CBC, SECTIONS 1617A. 1.1 THROUGH 1617A.1.24.

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE HCAI PRE-APPROVALS (OPM#). I.E. OPM-0043-1 MASON-WEST.

COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL

THE STRUCTURAL ENGINEER OF RECORD (SEOR) SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

7. CONDUIT SHALL NOT BE INSTALLED WITHIN CONCRETE SLABS UNLESS SPECIFICALLY NOTED.

MECHANICAL UNIT CONDUITS: TO PREVENT DAMAGE DUE TO VIBRATION, BOTH POWER AND CONTROL WIRING CONDUITS FEEDING EXTERIOR MECHANICAL UNITS SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR WITH LIQUID TIGHT FLEXIBLE TYPE AT FINAL CONNECTION TO UNIT AND BETWEEN ROOF JACK AND DISCONNECT SWITCH WHERE DISCONNECT IS MOUNTED ON UNIT.

MECHANICAL CONTROLS ROUGH-IN: PROVIDE AND INSTALL J-BOX, RING AND CONDUIT (SIZE ALL AS REQUIRED) FROM EACH MECHANICAL CONTROLS LOCATION TO CONTROLLED MECHANICAL UNITS.

MECHANICAL EQUIPMENT CONTROLS: MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LOW VOLTAGE WIRE AND CONNECTIONS (BELOW 120 VOLT) TO AND FROM ALL MECHANICAL CONTROL DEVICES. ALL LOW VOLTAGE CONTROL WIRE SHALL BE IN CONDUIT, UNLESS OTHERWISE NOTED.

GREENHOUSE 3 IS AN ADDITIVE ALTERNATE UNDER THE GREENHOUSE CONTRACTOR'S CONTRACT.

THE SITE CONTRACTOR IS RESPONSIBLE FOR PREPARATION OF THE BUILDING SUBGRADE PAD FOR ALL GREENHOUSES INCLUDING OVEREXCAVATION AND COMPACTION PER THE PROJECT SPECIFICATIONS.

BASE BID FOR THE SITE CONTRACTOR INCLUDES PROVIDING WOOD MULCH WITHIN THE FOOTPRINT OF GREENHOUSE #3 AND ROUGH GRADING THE AREA TO DRAIN TO THE INLETS AS SHOWN ON SHEET A100.

IF THE ALTERNATE FOR THE CONSTRUCTION OF THE GREENHOUSE IS ACCEPTED, THE SITE CONTRACTOR SHALL REMOVE MULCHING AND ROUGH GRADING AT GREENHOUSE 3 FROM THEIR SCOPE OF WORK AND THE GREENHOUSE CONTRACTOR SHALL PROVIDE DECOMPOSED GRANITE AND FINE GRADING WITHIN THE FOOTPRINT OF GREENHOUSE 3.

BASE BID FOR THE SITE CONTRACTOR INCLUDES PROVIDING ALL UTILITIES UP TO 5' OUTSIDE OF THE GREENHOUSE BUILDING FOOTPRINTS AND CAPPING ALL UTILITIES EXCEPT FOR STORM DRAIN 5' FROM THE EXTERIOR OF GREENHOUSE 3. THE GREENHOUSE CONTRACTOR IS RESPONSIBLE FOR MAKING ALL FINAL CONNECTIONS TO THE GREENHOUSE BUILDINGS

LEGEND

LIG	HT FIXTURES
0	CEILING SURFACEMOUNT
Ю	WALL SURFACEMOUNT
-\$-	PENDANT MOUNT
0	RECESSED DOWNLIGHT
\bullet	RECESSED WALLWASH
\geq	RECESSED FIXTURE
0	SURFACE FIXTURE
⊢−−−−	STRIP FIXTURE
-(>	TRACK LIGHT
\triangleleft	DIRECTIONAL FLOOD
\mathbb{P}	EMERGENCY FIXTURE
•	POLE LIGHT
- -- -	POLE LIGHT- DECORATIVE
$\langle 0 \rangle$	UPLIGHT- FLUSH IN GRADE
	BOLLARD
	TANDEM-WIRED LAMPS
0	UNDERCABINET LIGHT

HALL SURFACEMOUNT LINEAR TYPE

LETTER ADJACENT INDICATES

- PENDANT LINEAR FIXTURE \Box RECESSED WALLMOUNT
- WALLPACK
- EXIT LIGHT- WALL
- A EXIT LIGHT- CEILING (ARROW INDICATES DIRECTION)

FIXTURE TYPE

POWER/COMM

- SINGLE RECEPT.
- \oplus DUPLEX RECEPT.
- DUPLEX- HALF O.S. CNTRLD.
- DOUBLE DUPLEX, HALF O.S. CNTRLD
- DOUBLE DUPLEX SPECIAL CONFIGURATION
- FLOORMOUNT 208V. 1Ø RECEPT
- DUPLEX- FLOOR OUTLET
- \oplus_{GFI} GROUND FAULT CIRCUIT INTERRUPT ⊕ ∗ MOUNTED ABOVE COUNTER
- **JUNCTION BOX**
- ▼ TELEPHONE OUTLET ☑ DATA OUTLET
- PHONE/DATA COMBO OUTLET
- ▼* MOUNTED ABOVE COUNTER
- TV TELEVISION OUTLET □ SAFETY DISCONNECT
- ⁽⁾ + → DROP CORD RECEPT
- (Jc ABOVE-CLGMOUNT J-BOX
- ⑦ TV OUTLET-FLOORMOUNT TELEPHONE FLOOR OUTLET
- DATA FLOOR OUTLET
- PHONE/DATA COMBO FLOOR OUTLE
- IDF INTERMEDIATE DISTRIBUTION FRAM MDF MAIN DISTRIBUTION FRAME
- (AP) ACCESS POINT

SWITCHES

- SPST DPST
- 3-WAY 4-WAY
- DIMMER
- TIMER SWITCH
- W/THERMAL OVERLOAD W/PILOT LIGHT

,a SWITCHLEG DESIGNATION

OS OCCUPANCY SENSOR

KEY OPERATED \$ DUAL LEVEL SWITCHING

C MOTOR THERMOSTAT

MISCELLANEOUS

- CIRCUIT BREAKER
- GROUND PHASE
- CLOCK
- S CLOCK/SPEAKER COMBINATION
- HI WALL MOUNTED CLOCK HI PUSHBUTTON
- FLUSHMOUNT PANEL
- SURFACEMOUNT PANEL T FLUSHMOUNT CABINET
- SURFACEMOUNT CABINET
- DM DAMPER MOTOR
- HUMIDISTAT M MAGNETIC CONTACTOR
- COMBINATION STARTER

LUMINAIRE SCHEDULE

Δ	TYPE	ILLUSTRATION	MANUFACTURER	CATALOG NUMBER	VOLTAGE	TOTAL INPUT WATTS (W)	LAMP TYPE	NOMINAL LUMEN OUTPUT (L)	LAMP COLOR TEMP (K)	MOUNTING TYPE	DESCRIPTION	REMARKS
	A1	0	LITHONIA	JEBL 18000LM FRGL MVOLT 40K 80CRI WBF CS6G16 STOW5D SBOR10	120-277V	135	LED	18000	4000	PENDANT	13" DIA, LED ROUND HIGH BAY, FROSTED GLASS LENS, WET LISTED, IP65, NSF RATED. 0-10V DIMMING, INTEGRAL OCC SNSOR	
	C1	0	BEGHELLI	BS100LED-X 4FT HT HO WT40 120V-277V CH w/ EOSL2 LOG ESRPL	120-277V	100	LED	12196	4000	SUSPENDED, CHAIN HUNG	WIRELESS CONTROL NODE, OCC.	PROVIDE QTY. OF COMPATABLE WIRELESS DIMMING CONTROL SWITCHES PER PLANS.
	C2	0	BEGHELLI	BS100LED-X 4FT HT LO WT40 120V-277V CH w/ EOSL2 LOG ESRPL	120-277V	80	LED	10560	4000	SUSPENDED, CHAIN HUNG	WIRELESS CONTROL NODE, OCC.	PROVIDE QTY. OF COMPATABLE WIRELESS DIMMING CONTROL SWITCHES PER PLANS.
	EM 1		BEGHELLI	TA PLUS LED SE UNV AT SL, WALL	120-277V	10	LED	1444	4000	SURFACE, WALL	WALL MOUNTED EM UNIT W/ 90- MINUTE BACKUP BATTERY. WET LISTED, NSF RATED.	
	EM 2		BEGHELLI	TA PLUS LED SE UNV AT SL, CEILING	120-277V	10	LED	1491	4000	SURFACE, CEILING	CEILING MOUNTED EM UNIT W/ 90- MINUTE BACKUP BATTERY. WET LISTED, NSF RATED.	
1	S1		LITHONIA	WDGE2 LED P2SW 40K 80CRI VW MVOLT SRM_PIRIFC3V DDBXD	120-277V	15	LED	2023	4000	SURFACE, WALL	LED WALL PACK WITH CUT-OFF DISTRIBUTION, INTEGRAL PHOTOCONTROL & BI-LEVEL MOTION SENSOR.	
	S1E		LITHONIA	WDGE2 LED P2SW 40K 80CRI VW MVOLT SRM_PIRIFC3V DDBXD E10WH	120-277V	15	LED	2023	4000	SURFACE, WALL	TYPE S1E IS THE SAME AS S1 EXCEPT WITH INTERGRAL EMERGENCY BATTERY	
	S 2		LITHONIA	DSXF3 LED 6 P2 40K 70CRI WFL MVOLT YKC62 PE DDBXD	120-277V	138	LED	21005	4000	SURFACE, WALL	LED FLOOD LIGHT WITH WIDE FLOOD DISTRIBUTION & INTEGRAL PHOTOCONTROL	

ISSUE DATE: 8/10/2023 REV. DATE:

NOTES

THOMA FI FCTRIC, INC

P.O. Box 1167 - 3562 Empleo St.

San Luis Obispo, CA 93406

Phone: (805) 543-3850

THOMA #23-8061

· LUMINAIRE SUPPLIED VOLTAGE TO BE VERIFIED BY ELECTRICAL CONTRACTOR. · WHERE NOT SPECIFIED; FINISHES TO BE VERIFIED WITH DISTRICT.





Blair,

			NOTE: INTERPRET IN CONTEXT	
CO	NDUIT/WIRE	ABE	BREVIATIONS	
	NEW	А	AMPERE	
	UNDERGROUND	AF	AMP FUSE RATING	
+	NEW POWER HOMERUN	AFF	ABOVE FINISH FLOOR	
	(3 HOTS & NEUT SHOWN)	AFG	ABOVE FINISH GRADE	
		AIC	AMPERES INTERRUPT CAPACITY	
—E—	EXISTING TO REMAIN	AS	AMP SWITCH RATING	
~~~	(E) POWER HOMERUN	BFG	BELOW FINISH GRADE	
	WIRE LINE- CONTINUES	СВ	CIRCUIT BREAKER	
	• CONDUIT STUB (W/MARKER)	CEC	CA. ELECTRICAL CODE	
	VERTICAL CONDOLL ROM	CKT	CIRCUIT	DSA APP# 02-121754
•	CONDUIT SEAL	С	CONDUIT	
L	FLEXIBLE CONNECTION	C.O.	CONDUIT ONLY	
LV	LOW VOLTAGE	(E)	EXISTING	
 (		EC	ELECTRICAL CONTRACTOR	
$\longrightarrow$	INDICATES LINE CONTINUES	EF-#	EXHAUST FAN	
معر	CORD W/PLUG	(EXN)	(E) IN (N) LOCATION	
		(EXR)	(E) TO BE (R)	
		(F)	FUTURE	
FIR	EALARM	FA	FIRE ALARM	
1 11 1		FACP	FIRE ALARM CONTROL PANEL	
	FIRE ALARM CONTROL PANEL	G	GROUNDING CONDUCTOR	
	REMOTE POWER SUPPLY	GC	GENERAL CONTRACTOR	
H	HORN- AUDIBLE DEVICE	GFI	GROUND FAULT CKT INTERRUPTER	
	VISUAL- VISUAL DEVICE	GND	GROUND	
AV	AUDIBLE/VISUAL	GRS	GALVANIZED RIGID STEEL	
SV	SPEAKER/VISUAL	GWS	GANGED WITH SWITCH	
F	FLOW SWITCH	IG	ISOLATED GROUND	
T	TAMPER SWITCH	LTG	LIGHTING	
P	MANUAL PULL STATION	MC	MECHANICAL CONTRACTOR	
(SD)	SMOKE DETECTOR	MCB	MAIN CIRCUIT BREAKER	
Ä	DUCT SMOKE DETECTOR	MLO	MAIN LUGS ONLY	
	_O SMOKE/CO DETECTOR	MSB	MAIN SWITCHBOARD	
H	HEAT DETECTOR	MTTB	MAIN TELEPHONE TERMINAL BOARD	
B	BELL	(N)	NEW	
۲۳	END OF LINE RESISTOR	NIC	NOT IN CONTRACT	
C	CHIME	NL	NIGHT LIGHT	
CO	NVENTIONS	Р	POLE	
00		PV	PHOTOVOLTAIC	
X	NUMBERED SHEET NOTES:	(R)	RELOCATE(D)	
-	REFERS TO NOTES ON SAME SHEET AS REFERENCED	` '	TO BE REMOVED	
			TYPICAL	
	DETAIL REFERENCE: -DETAIL DESIGNATION	UC	UNDERCABINET	
· · ·	-SHEET NUMBER REFERENCE	UG	UNDERGROUND	
			UNLESS OTHERWISE NOTED	
3103	FEEDER SCHEDULE DESIGNATION (EXAMPLE: 3103 = 310 AMPERE, 600V, 3	V	VOLT	
	CURRENT CARRYING CONDUCTORS)	VA	VOLT AMPERES	
		W	WATT, WIRE	
		WP	WEATHERPROOF (NEMA 3R)	

### for MERCED COLLEGE GREEN HOUSE

TE#	23-	80	61

CONSULTANT REF. & REV. Blair, Church & Flynn

Consulting Engineers 451 Clovis Avenue,

Suite 200

Tel (559) 326-1400

Fax (559) 326-1500

Clovis, California 93612

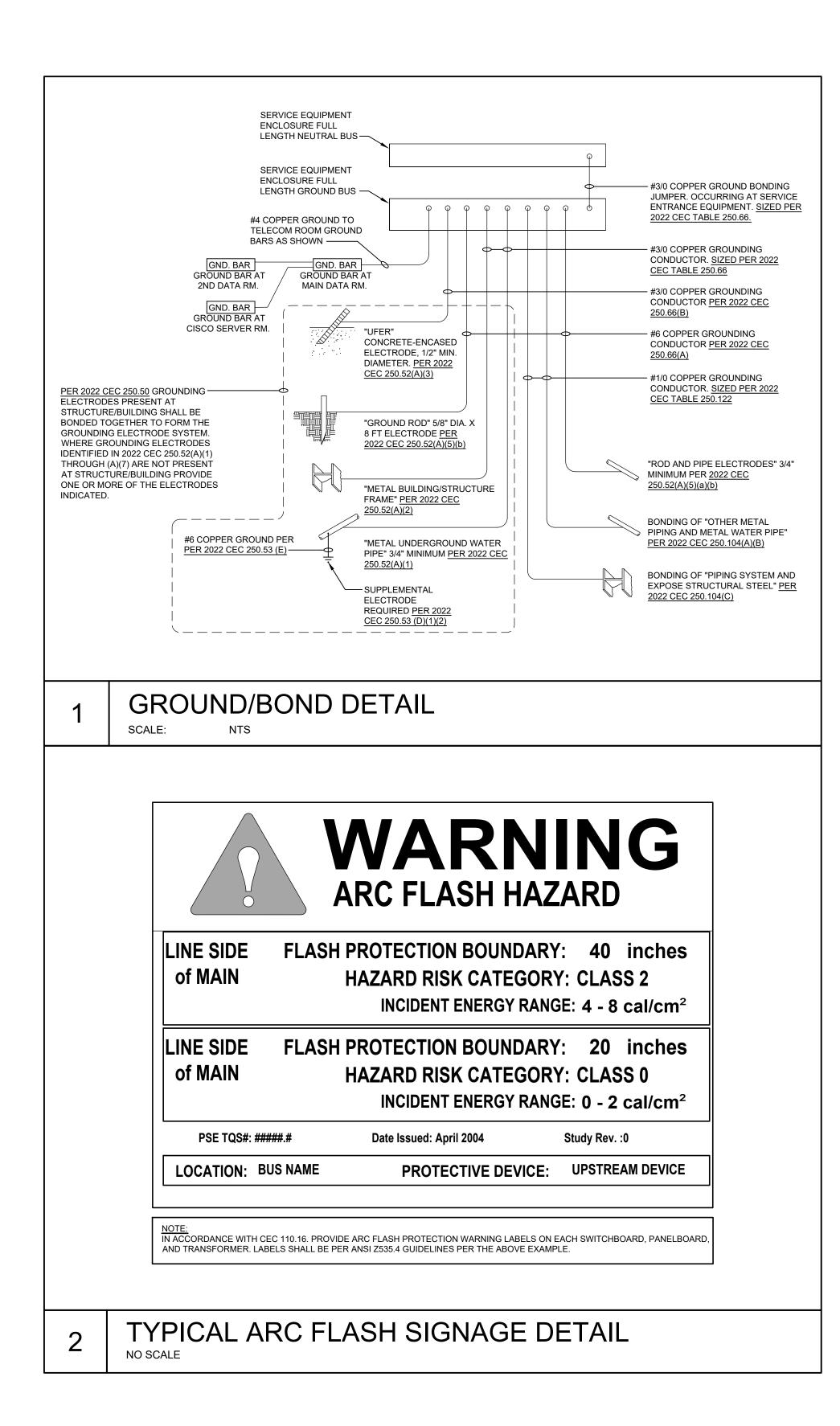
### MERCED COLLEGE GREENHOUSE COMPLEX

GREENHOUSE COMPLEX

AND GENERAL NOTES

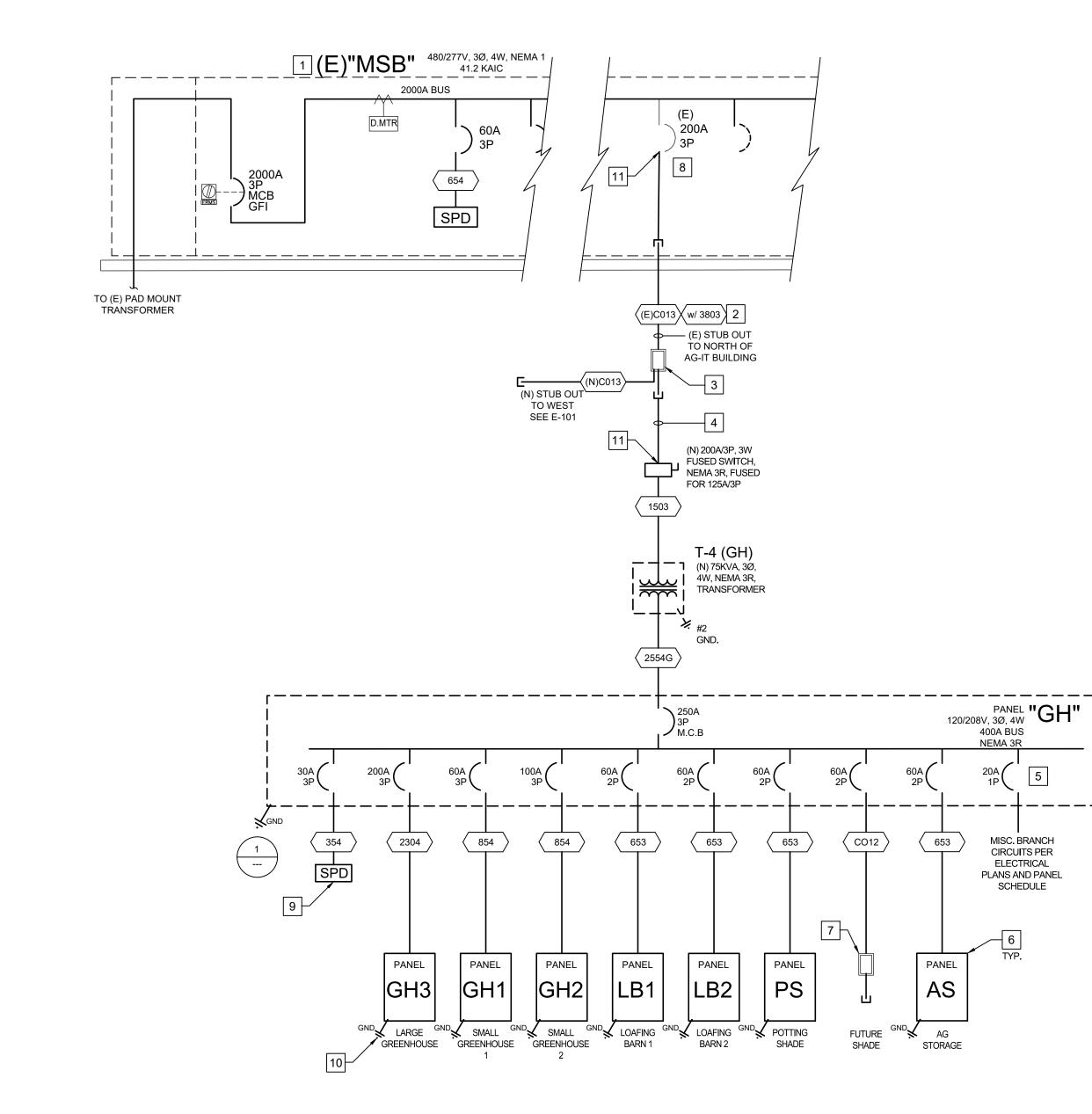
CH. BY: DATE: 03/01/2024 SCALE AS NOTED

CONST. DOCUMENTS



### GREEHNOUSE BID ALTERNATE NOTES:

- 2
- AND FINE GRADING WITHIN THE FOOTPRINT OF GREENHOUSE 3.



### ELECTRICAL SINGLE LINE DIAGRAM

### EQUIPMENT ELECTRICAL B.O.D. LIST

TAG	DESCRIPTION	QTY	VOLTAGE	PHASE	WATTS	AMPS	HP	FLA
EF-X.X	ACME EXHAUST FAN	2	230 (208)	1			1	
IS-X.X	ACME INLET SHUTTER	14	120	1	17			
нт-х.х	MODINE GAS FIRED HEATER	4	120	1			1/4	
ECS-X.X	EVAPORATIVE COOLING SYSTEM (PUMP)	3	120	1		2.9	1/3	
F-X.X	SCHAEFNER INTERNAL FAN	8	120	1			1/10	
RV-X.X	ROOF VENT (LOCK DRIVE MOTOR)	2	120	1		2.6		
RS-X.X	ROOF SHADE SYSTEM (DRIVE MOTOR)	1	120	1		2.5	1/5	
WB-X.X	DOUBLE RAIL WATERING BOOM (CHAIN DRIVE MOTOR)	1	120	1		2.5	1/4	

Blair,

### "X.X" DESIGNATION IN EQUIPMENT TAG INDICATES PANEL AND EQUIPMENT NUMBER AS REFLECTED ON ELECTRICAL FLOOR PLANS. • ROUTE ALL GREENHOUSE EQUIPMENT BRANCH CIRCUITS THROUGH CONTACTOR PANELS AND COORINATE WITH DISTRICTS CONTROLS CONTRACTOR

GREENHOUSE 3 IS AN ADDITIVE ALTERNATE UNDER THE GREENHOUSE CONTRACTOR'S CONTRACT.

THE SITE CONTRACTOR IS RESPONSIBLE FOR PREPARATION OF THE BUILDING SUBGRADE PAD FOR ALL GREENHOUSES INCLUDING OVEREXCAVATION AND COMPACTION PER THE PROJECT SPECIFICATIONS.

BASE BID FOR THE SITE CONTRACTOR INCLUDES PROVIDING WOOD MULCH WITHIN THE FOOTPRINT OF GREENHOUSE #3 AND ROUGH GRADING THE AREA TO DRAIN TO THE INLETS AS SHOWN ON SHEET A100.

IF THE ALTERNATE FOR THE CONSTRUCTION OF THE GREENHOUSE IS ACCEPTED, THE SITE CONTRACTOR SHALL REMOVE MULCHING AND ROUGH GRADING AT GREENHOUSE 3 FROM THEIR SCOPE OF WORK AND THE GREENHOUSE CONTRACTOR SHALL PROVIDE DECOMPOSED GRANITE

BASE BID FOR THE SITE CONTRACTOR INCLUDES PROVIDING ALL UTILITIES UP TO 5' OUTSIDE OF THE GREENHOUSE BUILDING FOOTPRINTS AND CAPPING ALL UTILITIES EXCEPT FOR STORM DRAIN 5' FROM THE EXTERIOR OF GREENHOUSE 3. THE GREENHOUSE CONTRACTOR IS RESPONSIBLE FOR MAKING ALL FINAL CONNECTIONS TO THE GREENHOUSE BUILDINGS



### □ REFERENCE NOTES

- 1. (E) MAIN SWITCHBOARD IN AG-IT BLDG. MAIN ELECTRICAL ROOM.
- LOCATE THE (E) U/G CONDUIT AND PULL BOX INSTALLED IN AREA OF GREENHOUSE PROJECT, SEE SHEET E-101. UTILIZE THE (E) CONDUIT TO INSTALL THE SPECIFIED FEEDER CONDUCTORS BETWEEN (E) "MSB" AND "GH" DISCONNECT SWITCH.
- 3. (E) U/G PULL BOX WITH CONDUIT FROM 480-VOLT "MSB".
- EXTEND NEW CONDUIT PER ELECTRICAL PLANS TO NEW DISTRIBUTION EQUIPMENT. SEE SHEET E-101.
- REFER TO THE PANEL SCHEDULE FOR FURTHER INFORMATION.
- PROVIDE POWER PANEL IN PROJECT BUILDINGS PER ELECTRICAL PLANS AND PANEL SCHEDULES.
- PROVIDE PULL BOX WITH CONDUIT ONLY FOR FUTURE USE. SEE SHEET 7. E-101.
- UTILIZE (E) 200A SPARE CIRCUIT BREAKER IN AG-IT "MSB".
- PROVIDE A TRANSIENT VOLTAGE SURGE PROTECTION DEVICE (SPD) 9. WITH A MINIMUM 80KA RATING. INCORPORATE INTO PANEL "GH" OR MOUNT ADJACENT TO PANEL "GH" IN A NEMA 3R ENCLOSURE.
- PROVIDE BUILDING SUB PANELS WITH GROUNDING ELECTRODE 10. SYSTEM AND GROUNDING CONDUCTORS PER CEC 250 (TYP.)
- 11. PROVIDE OFFSET COMPRESSION LUGS TO ACCOMMODATE OVERSIZED FEEDER TO FIT THE (N) OR (E) OCPD FACTORY LUG SIZE.

	COPPER F	FEEDER SCHEDULE
FEEDER NO.	RACEWAY QUANTITY/SIZE	CONDUCTORS
(C012)	(1) 2"C	CONDUIT ONLY WITH PULL ROPE.
(CO13)	(1) 3"C	CONDUIT ONLY WITH PULL ROPE.
353	(1) 3/4"C	(3) #10 THWN & (1) #10 GND.
653	(1) 1"C	(3) #6 THWN & (1) #10 GND.
854	(1) 1-1/4"C	(4) #4 THWN & (1) #8 GND.
(1503)	(1) 3"C	(3) #1/0 THWN & (1) #6 GND.
2304	(1) 2-1/2"C	(4) #4/0 THWN & (1) #4 GND.
2554G	(1) 3"C	(4) #250 KCMIL THWN & (1) #2 GND.
3803	(1) 3"C	(3) #500 KCMIL THWN & (1) #3 GND.
4204	(1) 4"C	(4) #600 KCMIL THWN & (1) #2 GND.

### for MERCED COLLEGE GREEN HOUSE

5

CONSULTANT

REF. & REV.

### SINGLE LINE DIAGRAM GENERAL NOTES

- A. SERVICE ENTRANCE EQUIPMENT SHALL BE IN ACCORDANCE WITH CEC REQUIREMENTS. B. ALL CONDUCTORS SHALL BE COPPER WITH TYPE [THHN/THWN] INSULATION UNLESS
- ALL SWITCHES, CIRCUIT BREAKERS AND OTHER EQUIPMENT, AS SPECIFIED, SHALL HAVE TERMINATION PROVISIONS LISTED AND IDENTIFIED FOR USE WITH 75 DEG. CONDUCTORS, AND ALL FEEDER CONDUCTORS, AND CONDUITS, ARE SIZE BASED ON USE OF 75 DEG. C COPPER WIRES TYPE THWN/THHN.
- D. ALL EQUIPMENT SHALL HAVE AN APPROVED TESTING LABORATORY LABEL ATTACHED [UL, CSA, ETC.] (CEC 110-2).
- SERVICE ENTRANCE AND DOWNSTREAM EQUIPMENT SHALL HAVE A U.L APPROVED SERIES RATING EQUAL TO OR GREATER THAN THE AVAILABLE FAULT CURRENT. LABEL EQUIPMENT ACCORDINGLY WHEN SERIES RATINGS APPLY. IF NO SERIES RATING IS AVAILABLE, EQUIPMENT SHALL BE FULLY-RATED FOR THE AVAILABLE FAULT CURRENT.
- THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR SUPPLYING GEAR SIZED TO FIT IN THE AVAILABLE SPACE IN THE ELECTRIC ROOM/EQUIPMENT PAD. THE DIMENSIONS SHOWN ARE BASED UPON EATON / SQUARE D EQUIPMENT. REFER TO ARCHITECTURAL PLANS FOR DIMENSIONAL INFORMATION NOT SHOWN ON THE ELECTRICAL PLANS. CONTRACTOR SHALL SUBMIT A 1/4" SCALE DRAWING OF ALL SWITCHGEAR, AND TERMINATION CABINETS ON FLOOR PLAN WITH SUBMITTAL.
- SINGLE LINE DIAGRAM IS A GRAPHIC REPRESENTATION OF THE POWER DISTRIBUTION, REFER TO ELECTRICAL FLOOR PLANS FOR EQUIPMENT ORIENTATION / LAYOUT.

MERCED COLLEGE GREENHOUSE COMPLEX

E-002

Blair, Church & Flynn Consulting Engineers 451 Clovis Avenue, GREENHOUSE COMPLEX Suite 200 Clovis, California 93612 ELECTRICAL Tel (559) 326-1400 Fax (559) 326-1500 SINGLE LINE DIAGRAM

OTHERWISE NOTED.

CONST. DOCUMENTS DR. BY: <u>AS/PM</u> CH. BY: DATE: 03/01/2024 SCALE AS NOTED

		BUS RATING:	400A	120/208V, 3PH, 4W				()	) PANE	iL.				SURFACE MOUNT, NEMA 3R					
		MAIN: SPACES:		/3P MAIN CIRCUIT BREAKER FULL SIZE BOLT-ON CB SPACES	2				GH					LOCATION: GREENHOUSE COMP WITH EQUIPMENT GND BUS	LEX				
		AIC RATING:		KAIC PANEL	5			CC	NNECTED	VA	<u>й</u>			FED FROM A G-IT BLDG. 'MSB'					
CKT %VD	DIST (FT)	LOAD NOTES TYPE	скт	DESCRIPTION	TRIP	POLES	COND SIZE	PHASE A	PHASE B	PHASE C	COND SIZE		TRIP	DESCRIPTION	скт	LOAD TYPE	NOTES	DIST (FT)	CKT %VD
		N	1	SPD	30	3	10	4036		110	4/0	3	200	PANEL GH3, LRG. GRNHSE	2	N		190	0.32%
		N	3	M		-	10		4417		4/0		15	<b>n</b>	4	N		190	0.35%
1.5		N	5	H.	1.00	-	10			4132	4/0		1	"	6	N	-	190	0.33%
0.28%	155	N	7	PANEL GH1, SM. GRNHSE.	60	3	4	856 758			6	2	60	PANEL PS, POTTING SHADE	8	N		35	0.10%
0.51%	155	N	9		-	-	4		1533 1013		6				10	N		35	0.14%
0.43%	155	N	11		-	-	4			1292 2386	6	2	60	PANEL AS, AG STORAGE	12	N		25	0.23%
0.35%	190	N	13	PANEL GH2, SM. GRNHSE.	60	3	4	856 3910			6	-	-	"	14	N		25	0.38%
0.62%	190	N	15		-	-	4		1533 3340		6	2	60	PANEL LB1, LOA FING BARN 1	16	N		115	1.51%
0.52%	190	N	17	n	-	-	4			1292 4800	6	1	1	"	18	N		115	2.17%
1			19	SPACE			11.3	4838			4	2	60	PANEL LB2, LOAFING BARN 2	20	N	1	165	1.97%
			21	SPACE				1.20	3303		4	-	-	n	22	N		165	1.34%
			23	SPACE			)(			1040	12	2	20	SOIL MIXER RECEPTACLE	24	М		85	1.40%
		1	25	SPACE				1040			12	-		"	26	М		85	1.40%
			27	SPACE								2	60	SPARE C.B. FOR (F) SHADE STRUCTURE	28	)==(			
			29	SPACE					- 1			() E []	3	n	30				
			31	SPACE			1.							SPACE	32				
			33	SPACE				1-1						SPACE	34				
			35	SPACE			1							SPACE	36	1.1.1			
			37	SPACE			1.5			[-1]				SPACE	38	1			
			39	SPACE			11 1			. – – I.		18- C. A. I.		SPACE	40	J	· · · · ·		
			41	SPACE										SPACE	42				
-					2		CON:	16292	15138		_				1				-
		NOTES:					25%:	0	0	0	LO			TY PE LEGEND					
	1						SUB:	0 16292	0 15138	0 14942		0		RECEPTACLE LIGHTING (125% OF CONNECTED		050.046	201		
							TOT: AMPS	16292						MECHANICAL	JLUAD	UEU 21	0.2)		
							Amro	100	120	120	1			KITCHEN APPLIANCE					
														NON-CONTINUOUS MISC.					
														CONTINUOUS MISC. (125% OF C	ONNEC		D CEC 2	15 2)	

			MAIN:	60A	120/208V, 3PH, 4W /3P MAIN CIRCUIT BREAKER	~								1	SURFACE MOUNT, NEMA 3R LOCATION: SMALL GREEN HOUSI	E2				
			PACES:	10.0	FULL SIZE BOLT-ON CB SPACE KAIC PANEL	5				NNECTED		1			WITH EQUIPMENT GND BUS FED FROM PANEL 'GH'					
CKT %VD	DIST (FT)		LOAD		DESCRIPTION	TRIP	POLES		PHASE A	PHASE			POLES	TRIP	DESCRIPTION	скт	LOAD TYPE	NOTES	DIST (FT)	CKT %VD
0.12%	25		R	1	WEST RECEPTACLE	20	1	12	180 30	1.11		12	1	20	EXT. LIGHTING	2	L	15.2	72	0.06%
0.21%	43		R	3	WEST RECEPTACLE	20	1	12		180 660		12	1	20	INT. LIGHTING	4	L		104	1.89%
0.30%	60	-	R	5	WEST RECEPTACLE	20	1	12	1		180 180	12	1	20	EAST RECEPTACLE	6	R		14	0.07%
0.43%	65		М	7	"F-1.1", "F-1.2"	15	1	14	150 180	] '		12	1	20	EAST RECEPTACLE	8	R		32	0.16%
0.38%	25		м	9	"HT-1.1"	15	1	14		348 180		12	1	20	EAST RECEPTACLE	10	R		50	0.25%
0.14%	10	1.1	R	11	COMMUNICATION CABINET	20	1	12			500 432	- 14	1	15	"ECS-2.1"	12	м	111.11	70	1.32%
0.07%	10		М	13	GH CONTACTOR PANEL	20	1	12	240 68	1 '		14	1	15	"IS-2.1", "IS-2.2", "IS-2.3", "IS-2.4"	14	м		80	0.24%
				15	SPACE					-					SPACE	16				
		1	1	17	SPACE								1 - 1		SPACE	18				
		1	1	19	SPACE	1				'		1	(C=)		SPACE	20				
		1		21	SPACE										SPACE	22				
		1	-	23	SPACE	1			1.00						SPACE	24	-			
1				25	SPACE				-	1 '			1		SPACE	26				
				27	SPACE				1.						SPACE	28				
		1	1	29	SPACE										SPACE	30				
	PANEL	L NOTES	1 1	*				CON: 25%:	848 8		1292 0		AD (VA)	LOAD	I TY PE LEGEND		1			
								SUB:	0	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	0		1580		RECEPTACLE					
								TOT:	856		1292	-	690		LIGHTING (125% OF CONNECTED	LOAD	CEC 215	5.2)		
								AMPS	7	13	11	1	1238		MECHANICAL					
													0	K	KITCHEN APPLIANCE					
													0	N	NON-CONTINUOUS MISC.				15.01	
													0	С	CONTINUOUS MISC. (125% OF CO	DNNEC	TED LOA	D CEC 2	15.2)	1.1

	BUS RATING: NEMA AIC RATING:	2000A 1	, 277/480			2000A/3P GFCI MCB ELECTRICAL RM. 127 FED FROM 12KV CIRC	#5 VIA PAD MOUNT	
	DISTRIBL	JION			0	XONNECTED VA (AMPS) %VD		
DIST (FT)	PANEL/LOAD	TRIP	POLES	COND SIZE	PHASE A	PHASE B	PHASE C	CALC
	(E) SPD	60	3	6	0	0	0	
40	(E) PANEL "HA1"	225	3	4/0	50600 (182.7A) 0.16%	48335 (174.5A) 0.15%	50725 (183.1A) 0.16%	001
160	(E) PANEL "HB1"	200	3	3/0	18817.90 (67.9A) 0.30%	14844.65 (53.6A) 0.24%	15974 (57.7A) 0.25%	001
50	(E) TRANSFORMER "T- 1" / PANEL 'LDP'	225	3	4/0	43209.60 (156.0A) 0.17%	41004.00 (148.0A) 0.16%	43354.40 (156.5A) 0.17%	001
275	(E) PANEL "HC1"	800	3	2-500	207170.00 (747.9A) 0.96%	210222 (758.9A) 0.97%	210205 (758.9A) 0.97%	001
160	(E) PANEL "HC2"	400	3	600	112960 (407.8A) 0.50%	112960 (407.8A) 0.50%	112960 (407.8A) 0.50%	001
160	(E) PANEL "HD1"	400	3	600	64294 (232.1A) 0.29%	64294 (232.1A) 0.29%	64294 (232.1A) 0.29%	001
70	(E) BOOSTER PUMP BP- 1	30	3	10	3879.87 (14.0A) 0.44%	3879.87 (14.0A) 0.44%	3879.87 (14.0A) 0.44%	CON
445	(N) TRANSFORMER "T- 4" / PANEL "GH"	200	3	500	16292 (58.8A) 0.06%	15138 (54.6A) 0.06%	14942 (53.9A) 0.06%	001
	(E) SPARE	30	3		0.00	0.00	0.00	
	(E) SPARE	100	3		0.00	0.00	0.00	
	SPACE	1.11	3		0	0	0	۲. I
	SPACE		3		0	0	0	
	SPACE		3		0	0	0	
	SPACE		3		0	0	0	
	SPACE		3		0	0	0	
	SPACE		3		0	0	0	
			То		517.22 (1867.2A) 1544.23 1857	VD CALCULATION TYP	<u> </u>	

		S		60A 30	120/208V, 3PH, 4W /3P MAIN CIRCUIT BREAKER FULL SIZE BOLT-ON CB SPACES KAIC PANEL	6						1			SURFACE MOUNT, NEMA 3R LOCATION: SMALL GREEN HOUSE WITH EQUIPMENT GND BUS FED FROM PANEL 'GH'	E1				
CKT %VD	DIST (FT)		LOAD			TRIP	POLES	1 1 1 C 1 1 C 1 1 C 1 1 C 1 C 1 C 1 C 1	PHASE A		PHASE	COND SIZE	POLES	TRIP	DESCRIPTION	скт	LOAD TYPE		DIST (FT)	CKT %VD
0.12%	25		R	1	WEST RECEPTACLE	20	1	12	180 30			12	1	20	EXT. LIGHTING	2	L		72	0.06%
0.21%	43		R	3	WEST RECEPTACLE	20	1	12		180 660	1	12	1	20	INT. LIGHTING	4	L		104	1.89%
0.30%	60		R	5	WEST RECEPTACLE	20	1	12	11.1		180 180	12	1	20	EAST RECEPTACLE	6	R		14	0.07%
0.43%	65		м	7	"F-1.1", "F-1.2"	15	1	14	150 180	1		12	1	20	EAST RECEPTACLE	8	R		32	0.16%
0.38%	25		М	9	"НТ-1.1"	15	1	14		348 180	1	12	1	20	EAST RECEPTACLE	10	R		50	0.25%
0.14%	10		R	11	COMMUNICATION CABINET	20	1	12			500 432	14	1	15	"ECS-1.1"	12	M		70	1.32%
0.07%	10		М	13	GH CONTACTOR PANEL	20	1	12	240 68	1		14	1	15	"IS-1.1", "IS-1.2", "IS-1.3", "IS-1.4"	14	М		80	0.24%
				15	SPACE						1	1.1			SPACE	16				T.
			-	17	SPACE										SPACE	18	11-11			
				19	SPACE							1.51	1		SPACE	20	1.21			1 -
	1	1	-	21	SPACE	1			1	-	]	121			SPACE	22	1			1
		1 - 2		23	SPACE			=			1		1		SPACE	24			-	1
		1		25	SPACE		1		-	1		1	1		SPACE	26		-	1	1==
		1		27	SPACE				1			3.721	1		SPACE	28	1			1
	1	1		29	SPACE							1.21			SPACE	30				
	<u>PA NEI</u>	L NOTES:						CON: 25%: SUB: TOT: AMPS	848 8 0 856 7	165 0 1533	0 0 1292	LO	AD (VA) 1580 690 1238 0	R L M	TY PE LEGEND RECEPTACLE LIGHTING (125% OF CONNECTED MECHANICAL KITCHEN APPLIANCE	LOAD	CEC 215	.2)		
													0		NON-CONTINUOUS MISC. CONTINUOUS MISC. (125% OF CC	NNECT	TED LOA	D CEC 21	15.2)	







CONSULTANT

REF. & REV.

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MERCED COLLEGE GREENHOUSE COMPLEX GREENHOUSE COMPLEX

PANEL SCHEDULES

DSA APP# 02-121754

CONST. DOCUMENTS

E-003

DR. BY: <u>AS/PM</u> CH. BY: <u>JT</u> DATE: <u>03/01/2024</u> SCALE AS NOTED

		S	MAIN: PACES: ATING:	60A 30	120/208V, 1PH, 3W /2P MAIN CIRCUIT BREAKER FULL SIZE BOLT-ON CB SPACES KAIC PANEL					S TED VA	1			SURFACE MOUNT, NEWA 1 LOCATION: AG STORGAE BLDG. WITH EQUIPMENT GND BUS FED FROM PANEL 'GH	4		5	5.53	
CKT %VD	DIST (FT)	NOTES	LOAD TYPE	скт	DESCRIPTION	TRIP	POLES	COND SIZE	A	PHASE B	COND SIZE	POLES	TRIP	DESCRIPTION	скт	LOAD TYPE	NOTES	DIST (FT)	CKT %VD
0.59%	40		R	1	EAST RECEPTACLES	20	1	12	540 45		12	1	20	EXT. LIGHTING	2	L		32	0.04%
0.97%	65		R	3	EAST RECEPTACLES	20	1	12		540 420	12	1	20	INT. LIGHTING	4	L		58	0.67%
0.69%	50		L	5	EAST AG CONTAINER LIGHTS	20	1	12	500 540	1.00	12	1	20	WEST RECEPTACLES	6	R	· · · · ·	20	0.30%
0.96%	70		L	7	WEST AG CONTAINER LIGHTS	20	1	12		500 720	12	1	20	WEST RECEPTACLES	8	R		45	0.89%
0.83%	60		L	9	(F) AG CONTAINER LIGHTS	20	1	12	500		1.1		1. 1	SPACE	10				1.1
0.41%	10		R	11	REMOTE IDF CABINET RECEPTACLE	20	1	12	1	1500				SPACE	12				
				13	SPACE								11.11	SPACE	14	-	·		1
-				15	SPACE								1	SPACE	16		<b>.</b>	-	1
		1		17	SPACE	1	1.27		-				1	SPACE	18			1	1
				19	SPACE	1111			1		07.1		11.11	SPACE	20				
				21	SPACE									SPACE	22				
				23	SPACE				1			2	1123	SPACE	24			1	1
		1		25	SPACE								1.5.3	SPACE	26				1
			-	27	SPACE								11-11	SPACE	28				
				29	SPACE		1						11.1	SPACE	30				1
		5.51	-					CON:	2125	3680	1.1			and the second second					
	PANEL	NOTES:						25%:	261	230		AD (VA)		TY PE LEGEND					
								SUB:	0	0		3840		RECEPTACLE					
								TOT:	2386	3910		1965		LIGHTING (125% OF CONNECTED	LOAD	CEC 215	5.2)		
								AMPS	20	33		0		MECHANICAL					
												0	ĸ	KITCHEN A PPLIA NCE					
												0		NON-CONTINUOUS MISC.					
												0	C	CONTINUOUS MISC. (125% OF C	ONNEC	TED LOA	D CEC 2'	15.2)	

		5		60A	120/208V, 1PH, 3W /2P MAIN CIRCUIT BREAKER FULL SIZE BOLT-ON CB SPACES KAIC PANEL				Ĺ	ANEL B2	1			SURFACE MOUNT, NEMA 1 LOCATION: LOAFING BARN 2 WITH EQUIPMENT GND BUS FED FROM PANEL 'GH'					
CKT %VD	DIST (FT)			1		TRIP	POLES		PHASE			POLES	TRIP	DESCRIPTION	скт	LOAD TYPE	NOTES	DIST (FT)	CKT %VD
				1	SPACE			10.1	30		12	1	20	EXT. LIGHTING	2	L		56	0.05%
		131		3	SPACE					290	12	1	20	INT. LIGHTING	4	L		42	0.33%
		1 - 1		5	SPACE	1.1.1		1	1920		12	1	20	20A CART CHARGER	6	С		28	1.48%
		1		7	SPACE					1920	12	1	20	20A CART CHARGER	8	С		40	2.11%
				9	SPACE				1920		12	1	20	20A CART CHARGER	10	С		50	2.64%
				11	SPACE					540	12	1	20	RECEPTACLES	12	R		52	0.77%
		1.1		13	SPACE				1	1	- Y	1		SPACE	14				
		1 ]		15	SPACE						6-1	1		SPACE	16				
				17	SPACE	1			-					SPACE	18			100	
	PANEL	NOTES	<u>:</u>					CON: 25%: SUB:	3870 968 0	and the second sec		AD (VA) 540		TY PE LEGEND RECEPTACLE					
								TOT:	4838		-	320	L	LIGHTING (125% OF CONNECTED	DLOAD	CEC 21	5.2)		
								AMPS	40	28		0		MECHANICAL					
												0	1.2	KITCHEN A PPLIANCE NON-CONTINUOUS MISC.					
												5760		CONTINUOUS MISC. (125% OF C	ONNEC		D CEC 2	15 2)	

		BUS RATING:	225A	120/208V, 3PH, 4W				(N	) PANE	L				SURFACE MOUNT, NEMA 3R					
		MAIN: SPACES: AIC RATING:	42	/3P MAIN CIRCUIT BREAKER FULL SIZE BOLT-ON CB SPACES KAIC PANEL				-	GH3		1			LOCATION: LARGE GREEN HOUS WITH EQUIPMENT GND BUS FED FROM PANEL 'GH'	SE				
CKT	DIST	LOAD	10		1		COND			12.0	COND	1			1	LOAD	1	DIST	CK
%VD	(FT)	NOTES TYPE	CKT	DESCRIPTION	TRIP	POLES	SIZE	A	В	С	SIZE	POLES	TRIP	DESCRIPTION	СКТ		NOTES	(FT)	%V
0.26%	26	R	1	EAST RECEPTACLES	20	1	12	360 198			12	1	20	EXT. LIGHTING	2	L		72	0.39
0.61%	62	R	3	EAST RECEPTACLES	20	1	12		360 820		10	1	20	NORHT INT. LIGHTING	4	L		170	2.40
0.43%	86	R	5	EAST RECEPTACLES	20	1	12			180 840	12	1	20	SOUTH INT. LIGHTING	6	L		95	2.19
1.23%	124	R	7	EAST RECEPTACLES	20	1	12	360 360			12	1	20	WEST RECEPTACLES	8	R		8	0.08
1.58%	160	R	9	EAST RECEPTACLES	20	1	12		360 360		12	1	20	WEST RECEPTACLES	10	R		52	0.51
0.42%	35	М	11	"EF-2"	15	2	14			480 180	12	1	20	WEST RECEPTACLES	12	R		88	0.44
0.42%	35	М	13		15		14	480 360			12	1	20	WEST RECEPTACLES	14	R	1	112	1.11
0.68%	45	М	15	"HT-3.1"	15	1	14		348 180		12	1	20	WEST RECEPTACLES	16	R		154	0.76
2.43%	160	М	17	"HT-3.2"	15	1	14			348 480	14	2	15	"EF-1"	18	м		15	0.18
1.96%	150	М	19	"F-3.1", "F-3.2", "F-3.3", "F-3.4"	15	1	14	300 480			14	-	15		20	м		15	0.18
1.43%	105	М	21	"RV-3.2"	15	1	14		312 300	it ti	14	1	15	"RS-3.1"	22	м		12	0.16
0.41%	30	R	23	COMMUNICATION CABINET	20	1	12			500 312	14	1	15	"RV-3.1"	24	м		95	1.29
0.20%	30	М	25	GH CONTROL PANEL	20	1	12	240 348			14	1	15	"WB-3.1"	26	м		105	1.59
0.20%	30	М	27	GH CONTACTOR PANEL	20	1	12	1	240 432	(1, 2, 2)	12	1	15	"ECS-3.1"	28	М		155	1.84
0.41%	30	М	29	ROOF SHADE CONTROL PANEL	20	1	12			500 102	14	1	15	"IS-3.1", "IS-3.2", "IS-3.3", "IS- 3.4", "IS-3.5", "IS-3.6"	30	м		170	0.76
0.41%	30	М	31	ROOF VENT OP 1	20	1	12	500			1.1			SPACE	32				
0.41%	30	М	33	ROOF VENT CP 2	20	1	12		500					SPACE	34				
			35	SPACE										SPACE	36				
			37	SPACE			1000				1			SPACE	38				
			39	SPACE				1			1			SPACE	40				
			41	SPACE			1.1	1 '			-			SPACE	42	1			
	PANEL	NOTES:					CON: 25%: SUB: TOT: AMPS	3986 50 0 4036 34	205 0 4417	3922 210 0 4132 34		3560 1858	R L M	TY PE LEGEND RECEPTACLE LIGHTING (125% OF CONNECTED MECHANICAL	DLOAD	CEC 215	5.2)		
												0 0 0	Ν	KITCHEN A PPLIA NCE NON-CONTINUOUS MISC. CONTINUOUS MISC. (125% OF C	ONNEC	TEDLOA	D CEC 21	15 2)	

		BUS RA	TING:	100A	120/208V, 1PH, 3W				(N) P	ANEL				SURFACE MOUNT, NEMA 1					
		SPA	ACES:	18	/2P MAIN CIRCUIT BREAKER FULL SIZE BOLT-ON CB SPAC KAIC PANEL	ES				B1				LOCATION: LOAFTING BARN 1 WITH EQUIPMENT GND BUS FED FROM PANEL 'GH'					
CKT %VD	DIST (FT)	AIC RA	OAD		DESCRIPTION	TRIP	POLES	and the second se		PHASE	and the second se	POLES	TRIP	DESCRIPTION	скт	LOAD TYPE	NOTES	DIST (FT)	CKT %VD
0.45%	56		L	1	INT. LIGHTING	20	1	12	290 30		12	1	20	EXT. LIGHTING	2	L		56	0.05%
				3	SPACE	1111				1920	12	1	20	20A CART CHARGER	4	С		28	1.48%
				5	SPACE	-		-	1920		12	1	20	20A CART CHARGER	6	С		40	2.11%
				7	SPACE					1920	12	1	20	20A CART CHARGER	8	С		50	2.64%
				9	SPACE		· · · · · ·		540	4	12	1	20	RECEPTACLES	10	R		52	0.77%
				11	SPACE	1 1 1								SPACE	12	1 - A (	10.0		
				13	SPACE									SPACE	14				
				15	SPACE									SPACE	16		1		
				17	SPACE	1.								SPACE	18				
	PANEL	NOTES:						CON: 25%:	2780 560		LO	AD (VA)	LOAD	TY PE LEGEND					1
								SUB:	0		1.0	540	R	RECEPTACLE					
								TOT:	3340			320	L	LIGHTING (125% OF CONNECTI	EDLOAD	CEC 21	5.2)		
								AMPS	28	40		0		MECHA NICA L					
												0		KITCHEN A PPLIANCE					
												0 5760	N	NON-CONTINUOUS MISC. CONTINUOUS MISC. (125% OF					

		SI		60A 12	120/208V, 1PH, 3W /2P MAIN CIRCUIT BREAKER FULL SIZE BOLT-ON CB SPACES KAIC PANEL					S				SURFACE MOUNT, NEWA 3R LOCA TION: POTTING SHADE WITH EQUIPMENT GND BUS FED FROM PANEL 'GH'					
CKT %VD	DIST (FT)	NOTES	LOAD TYPE		DESCRIPTION	TRIP	POLES	COND SIZE	PHASE	PHASE B	COND SIZE		TRIP	DESCRIPTION	СКТ	LOAD TYPE	NOTES	DIST (FT)	CKT %VD
1.19%	60			1	RECEPTACLES	20	1	12	720		12	1	20	EXT. LIGHTING	2	L		75	0.06%
				3	SPACE	1				810	12	1	20	INT. LIGHTING	4	L		80	1.78%
				5	SPACE							1		SPACE	6				
				7	SPACE	1.1					4-1			SPACE	8				
				9	SPACE		1					1	1.1	SPACE	10				1.5
			-	11	SPACE	$\mathbf{V}_{\mathbf{p}}$	1.				2-1	1		SPACE	12				
	PANEL	NOTES:						CON: 25%:	750 8	810 203	LO	AD (VA)	LOAD	TY PE LEGEND			ò		
								SUB:	0	0		0		RECEPTACLE					
								TOT:	758	1013		840	L	LIGHTING (125% OF CONNECTED	DLOAD	CEC 215	5.2)		
								AMPS	6	8		0	М	MECHANICAL					
												0	к	KITCHEN A PPLIA NCE					
												0	N	NON-CONTINUOUS MISC.					
												0	С	CONTINUOUS MISC. (125% OF C	ONNEC.	TED LOA	D CEC 2	15.2)	



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REF. & REV.

### MERCED COLLEGE GREENHOUSE COMPLEX

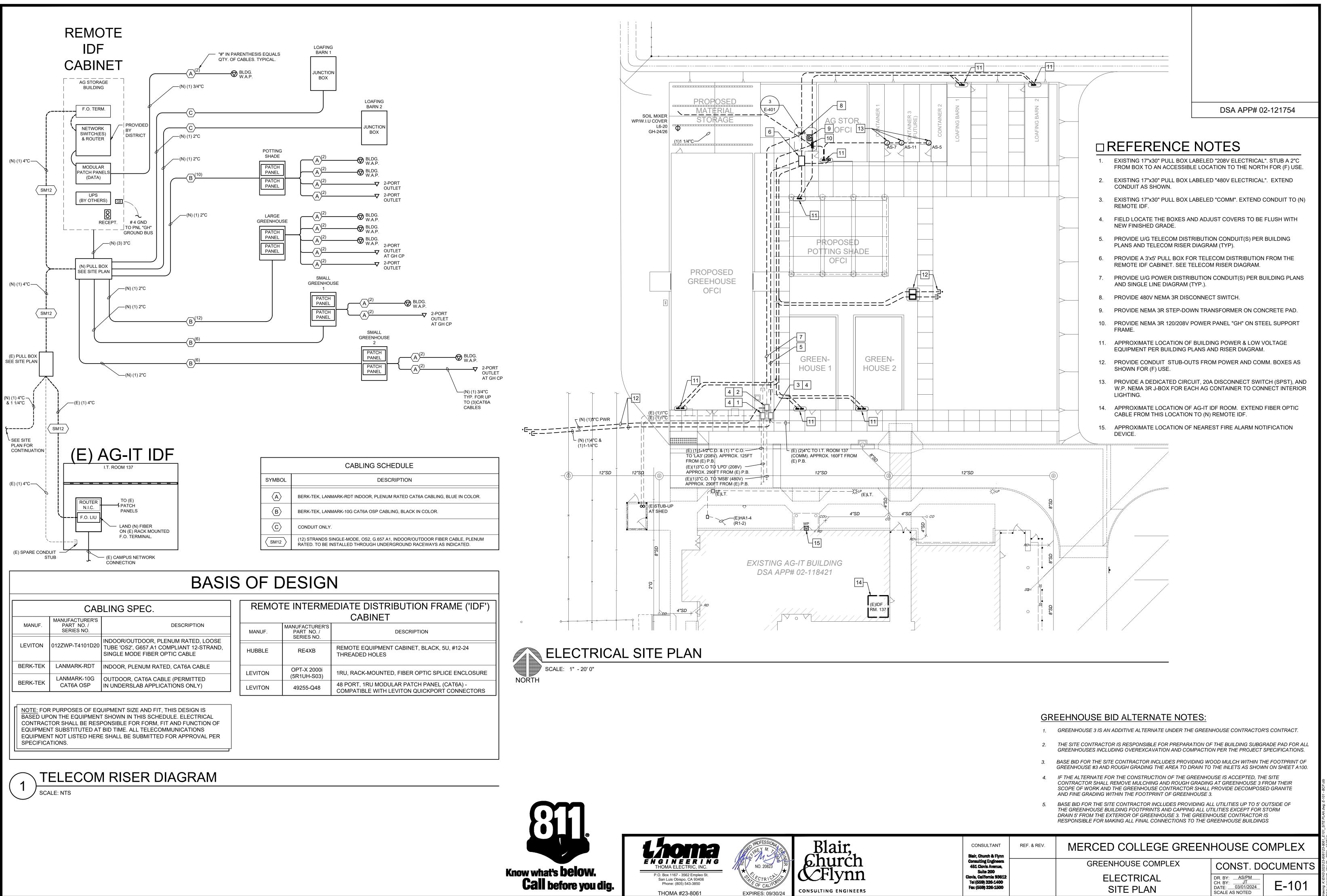
GREENHOUSE COMPLEX

PANEL SCHEDULES

CONST. DOCUMENTS

### DSA APP# 02-121754

DR. BY: <u>AS/PM</u> CH. BY: <u>JT</u> DATE: <u>03/01/2024</u> SCALE AS NOTED

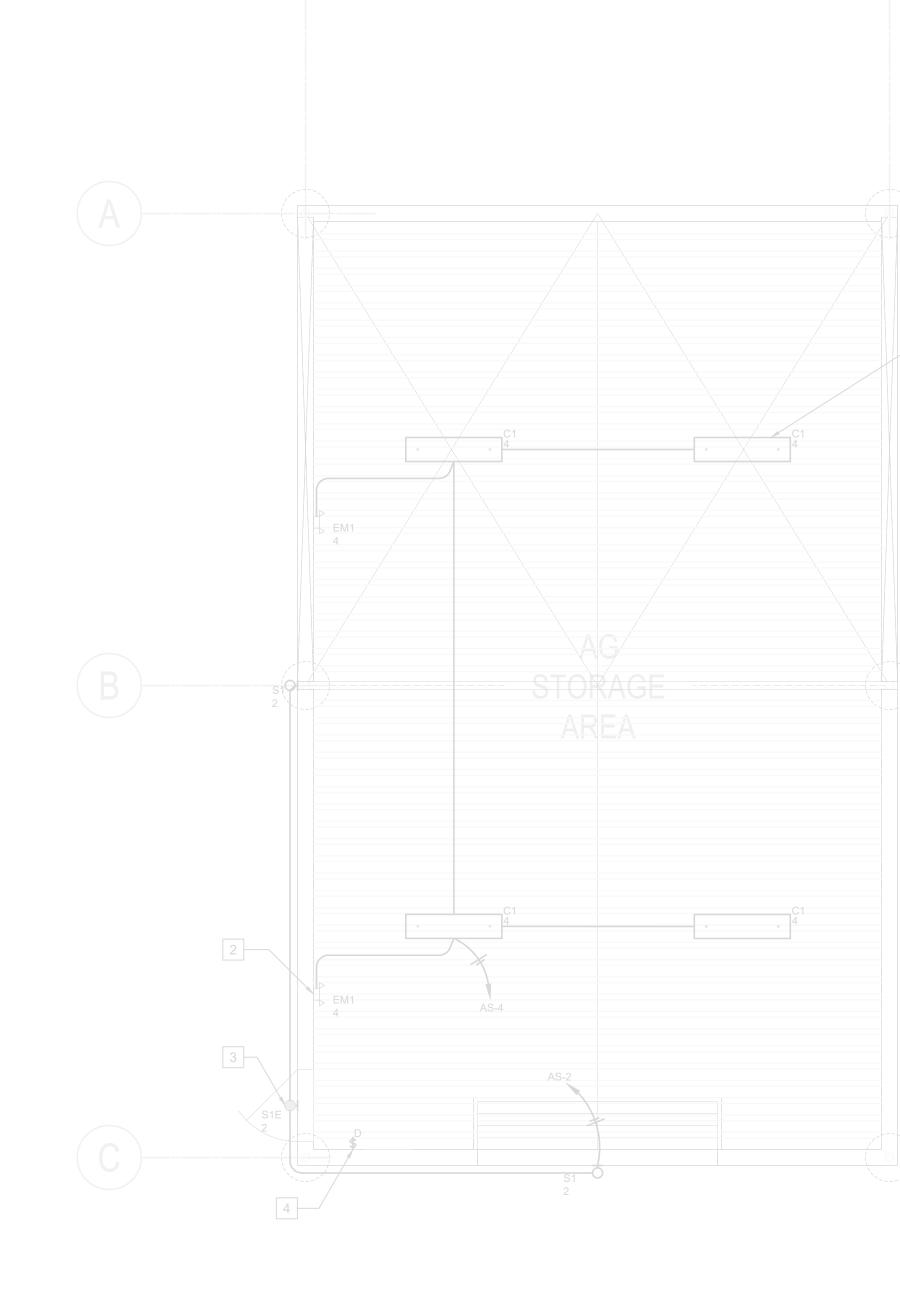


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Consulting Engineers 451 Clovis Avenue,		GREENHOUSE
Suite 200 Clovis, California 93612 Tel (559) 326-1400 Fax (559) 326-1500		ELECTRI SITE PL
Tel (559) 326-1400		

SCALE AS NOTED

# THIS SHEET IS PROVIDED FOR REFERENCE ONLY: THIS SCOPE OF WORK IS NOT UNDER THE GREENHOUSE CONTRACTOR'S CONTRACT

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DSA APP# 02-121754

### □ REFERENCE NOTES

- 1. PROVIDE CHAIN HUNG LED VAPOR-TIGHT LIGHT WITH DIMMING CONTROL NODE AND MOTION SENSOR.
- 2. PROVIDE EMERGENCY LIGHTING UNIT EQUIPMENT. COORDINATE LOCATION WITH STRUCTURE ELEMENT FOR MOUNTING. CONNECT WITH A CONSTANT HOT FROM THE INTERIOR LIGHTING CIRCUIT FOR CONTINUOUS CHARGING OF THE BATTERY.
- 3. PROVIDE LED WALL PACK LIGHT WITH INTEGRAL PHOTOCONTROL AND BI-LEVEL MOTION SENSOR. TYPE 'S1E' LIGHTS HAVE AN INTEGRAL EMERGENCY BATTERY PACK, CONNECT WITH A CONSTANT HOT FOR CONTINUOUS CHARGING OF BATTERY.
- 4. PROVIDE WIRELESS LIGHTING CONTROL SWITCH(ES) WITH W.P. COVER PLATE COMPATIBLE WITH SUPPLIED 0-10V DIMMING LUMINAIRES.

CONSULTANT

REF. & REV.

Blair, Church & Flynn Consulting Engineers 451 Clovis Avenue, Suite 200 Clovis, California 93612 Tel (559) 326-1400 Fax (559) 326-1500 MERCED COLLEGE GREENHOUSE COMPLEX

GREENHOUSE COMPLEX AG STORAGE LIGHTING PLAN

CONST. DOCUMENTS

-S

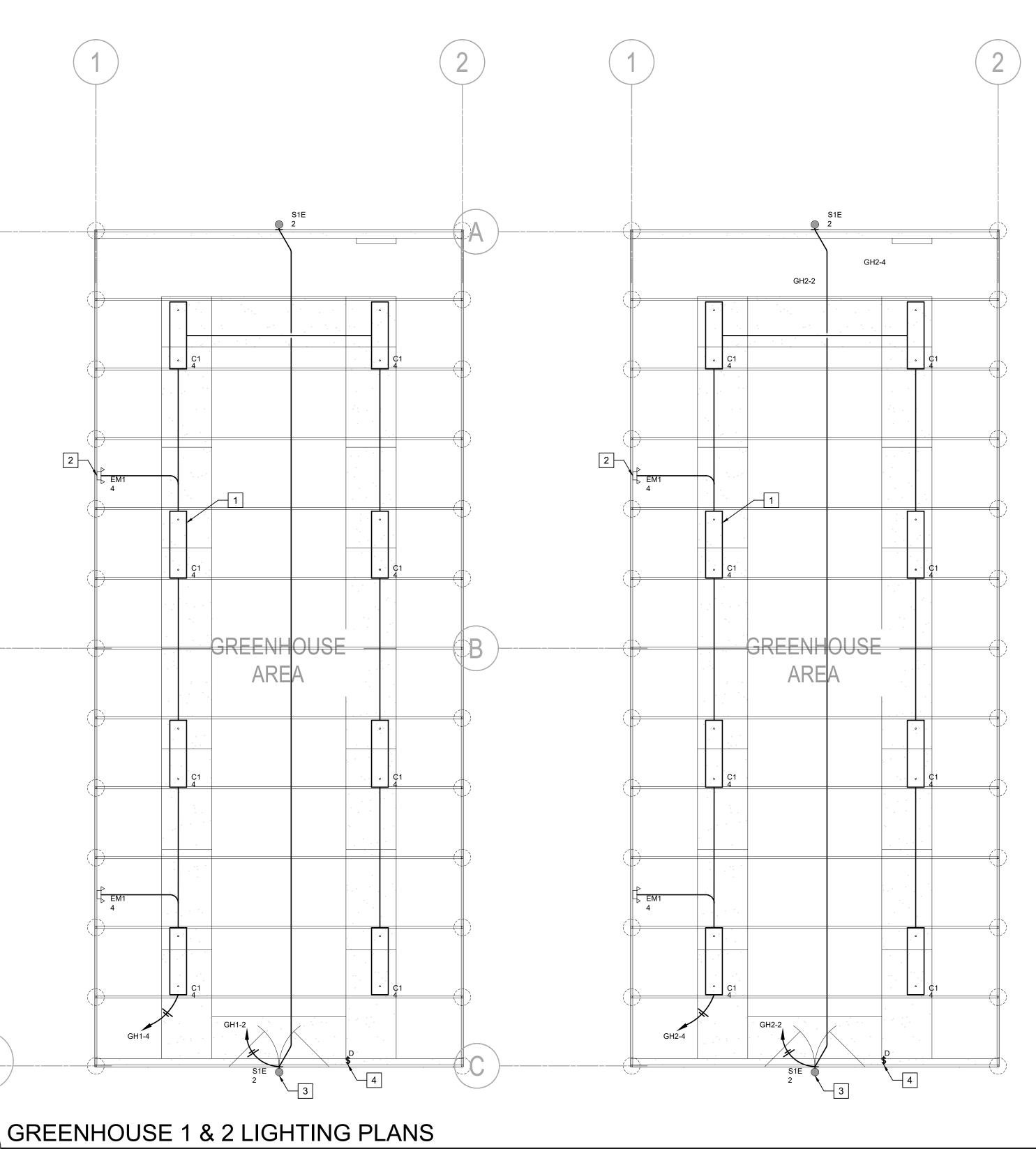
g: K:\ENG\2023\23-8061\23-8061_E201~E-205_BLDG LTG PLANS.dwg: E-201 - BC :: ====ceetert: Mar.01 = 2024_120.06nm

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Α

В







DSA APP# 02-121754

### □ REFERENCE NOTES

- PROVIDE CHAIN HUNG LED VAPOR-TIGHT LIGHT WITH DIMMING CONTROL NODE AND MOTION SENSOR.
- 2. PROVIDE EMERGENCY LIGHTING UNIT EQUIPMENT. COORDINATE LOCATION WITH STRUCTURE ELEMENT FOR MOUNTING. CONNECT WITH A CONSTANT HOT FROM THE INTERIOR LIGHTING CIRCUIT FOR CONTINUOUS CHARGING OF THE BATTERY.
- 3. PROVIDE LED WALL PACK LIGHT WITH INTEGRAL PHOTOCONTROL AND BI-LEVEL MOTION SENSOR. TYPE 'S1E' LIGHTS HAVE AN INTEGRAL EMERGENCY BATTERY PACK, CONNECT WITH A CONSTANT HOT FOR CONTINUOUS CHARGING OF BATTERY.
- 4. PROVIDE WIRELESS LIGHTING CONTROL SWITCH(ES) WITH W.P. COVER PLATE COMPATIBLE WITH SUPPLIED 0-10V DIMMING LUMINAIRES.

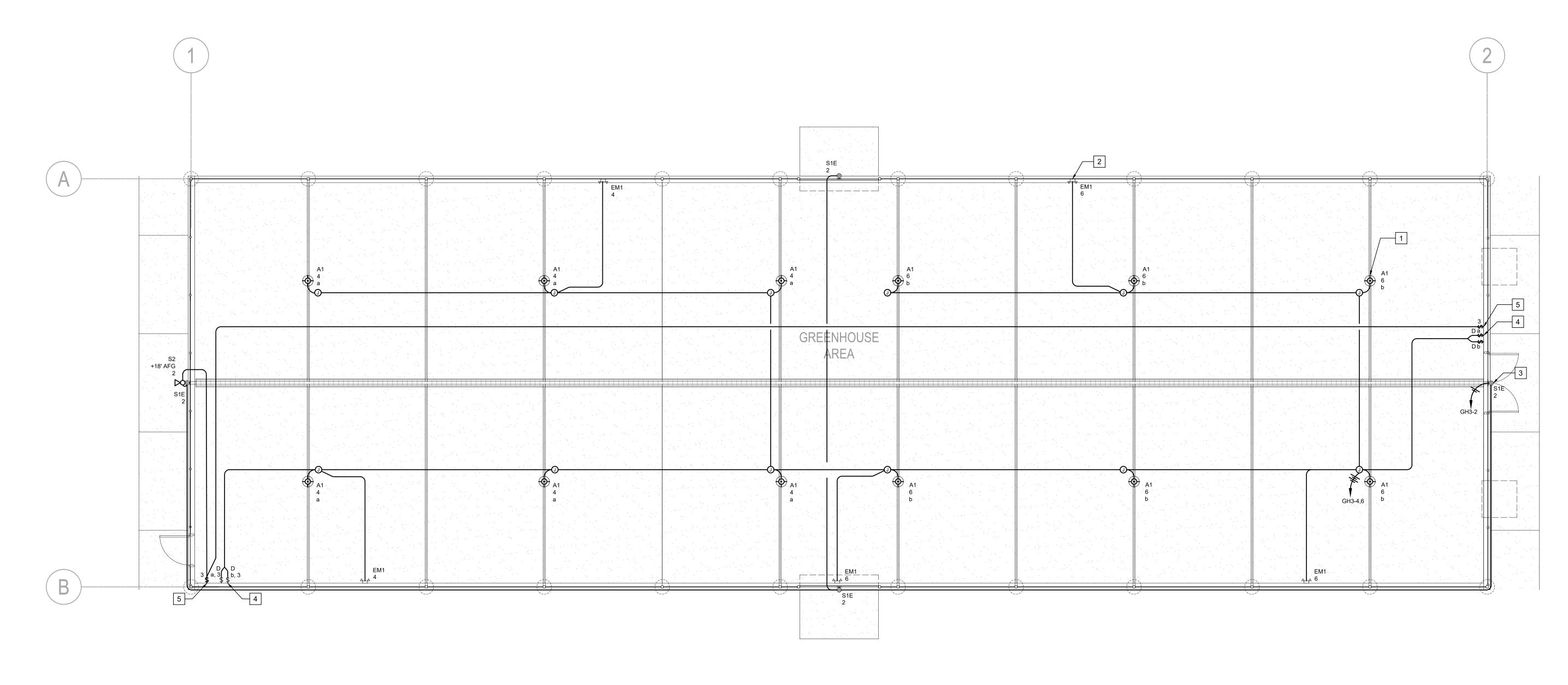
CONSULTANT Blair, Church & Flynn Consulting Engineers 451 Clovis Avenue, Suite 200 Clovis, California 93612 Tel (559) 326-1400 Fax (559) 326-1500

REF. & REV.

### MERCED COLLEGE GREENHOUSE COMPLEX GREENHOUSE COMPLEX

GREENHOUSE 1 & 2 LIGHTING PLANS

CONST. DOCUMENTS DR. BY: <u>AS/PM</u> CH. BY: <u>JT</u> DATE: <u>03/01/2024</u> SCALE AS NOTED



### MAIN GREENHOUSE LIGHTING PLANS

SCALE: 3/16" - 1' 0" NORTH



### □ REFERENCE NOTES

- 1. PROVIDE PENDANT MOUNTED LED WITH ON BOARD DIMMING / MOTION SENSOR.
- 2. PROVIDE EMERGENCY LIGHTING UNIT EQUIPMENT. COORDINATE LOCATION WITH STRUCTURE ELEMENT FOR MOUNTING. CONNECT WITH A CONSTANT HOT FROM THE INTERIOR LIGHTING CIRCUIT FOR CONTINUOUS CHARGING OF THE BATTERY.
- 3. PROVIDE LED WALL PACK LIGHT WITH INTEGRAL PHOTOCONTROL AND BI-LEVEL MOTION SENSOR. TYPE 'S1E' LIGHTS HAVE AN INTEGRAL EMERGENCY BATTERY PACK, CONNECT WITH A CONSTANT HOT FOR CONTINUOUS CHARGING OF BATTERY.
- 4. INTERIOR LIGHTING CONTROL SWITCHES WITH W.P. COVER PLATE COMPATIBLE WITH 0-10V DIMMING LUMINARIES.
- 5. PROVIDE LINE VOLTAGE SWITCH WITH W.P. COVER PLATE FOR MANUAL ON/OFF CONTROL OF EXTERIOR FLOOD LIGHT.

DSA APP# 02-121754

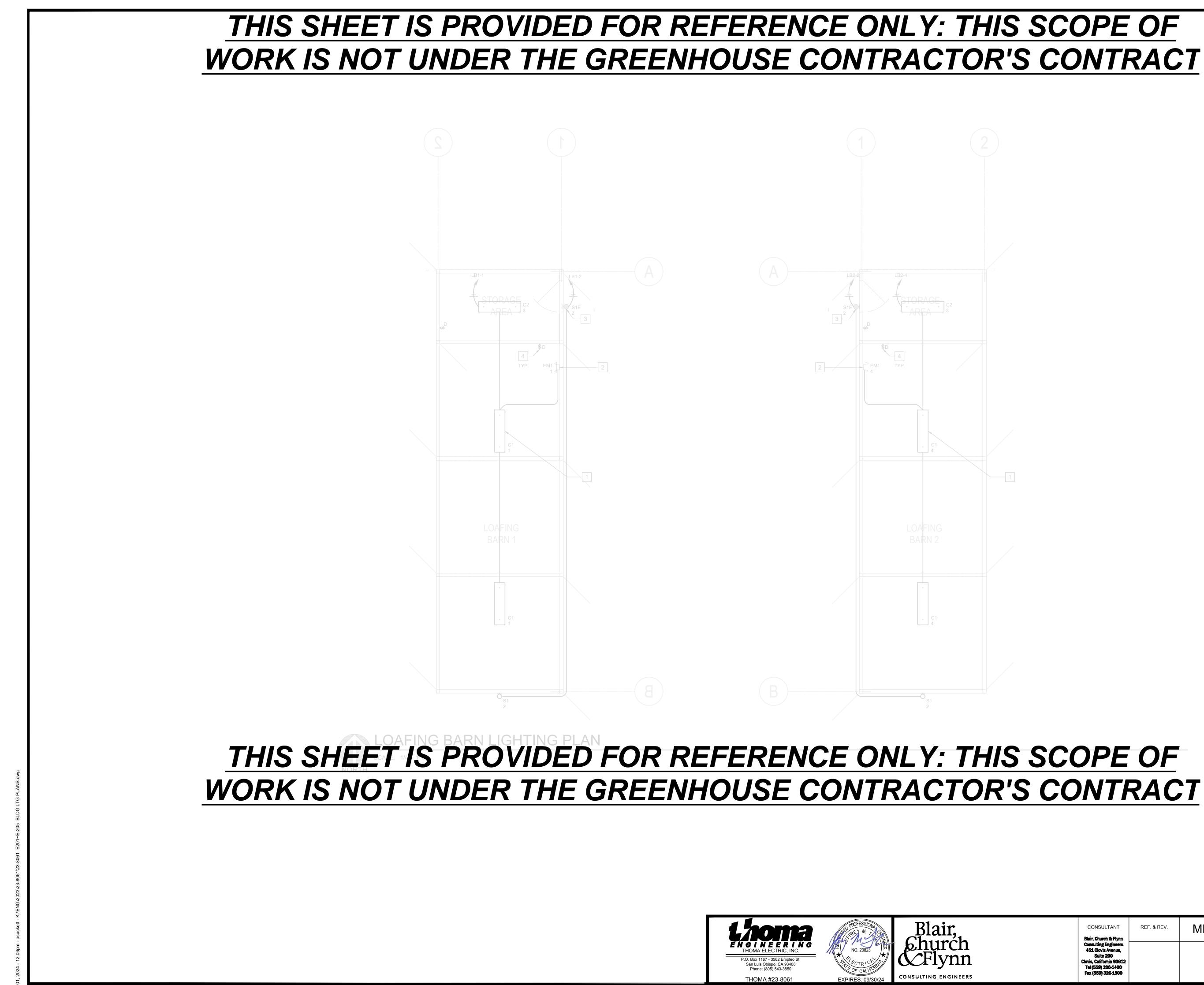
REF. & REV. CONSULTANT

Blair, Church & Flynn Consulting Engineers 451 Clovis Avenue, Suite 200 Clovis, California 93612 Tel (559) 326-1400 Fax (559) 326-1500

MERCED COLLEGE GREENHOUSE COMPLEX GREENHOUSE COMPLEX MAIN GREENHOUSE

LIGHTING PLANS

CONST. DOCUMENTS DR. BY: <u>AS/PM</u> CH. BY: <u>JT</u> DATE: <u>03/01/2024</u> SCALE AS NOTED



DSA APP# 02-121754

### **REFERENCE NOTES**

- 4. PROVIDE WIRELESS LIGHTING CONTROL SWITCH(ES) WITH W.P. COVER

CONSULTANT Blair, Church & Flynr

Consulting Engineers 451 Clovis Avenue,

Suite 200 Clovis, California 93612 Tel (559) 326-1400 Fax (559) 326-1500 REF. & REV.

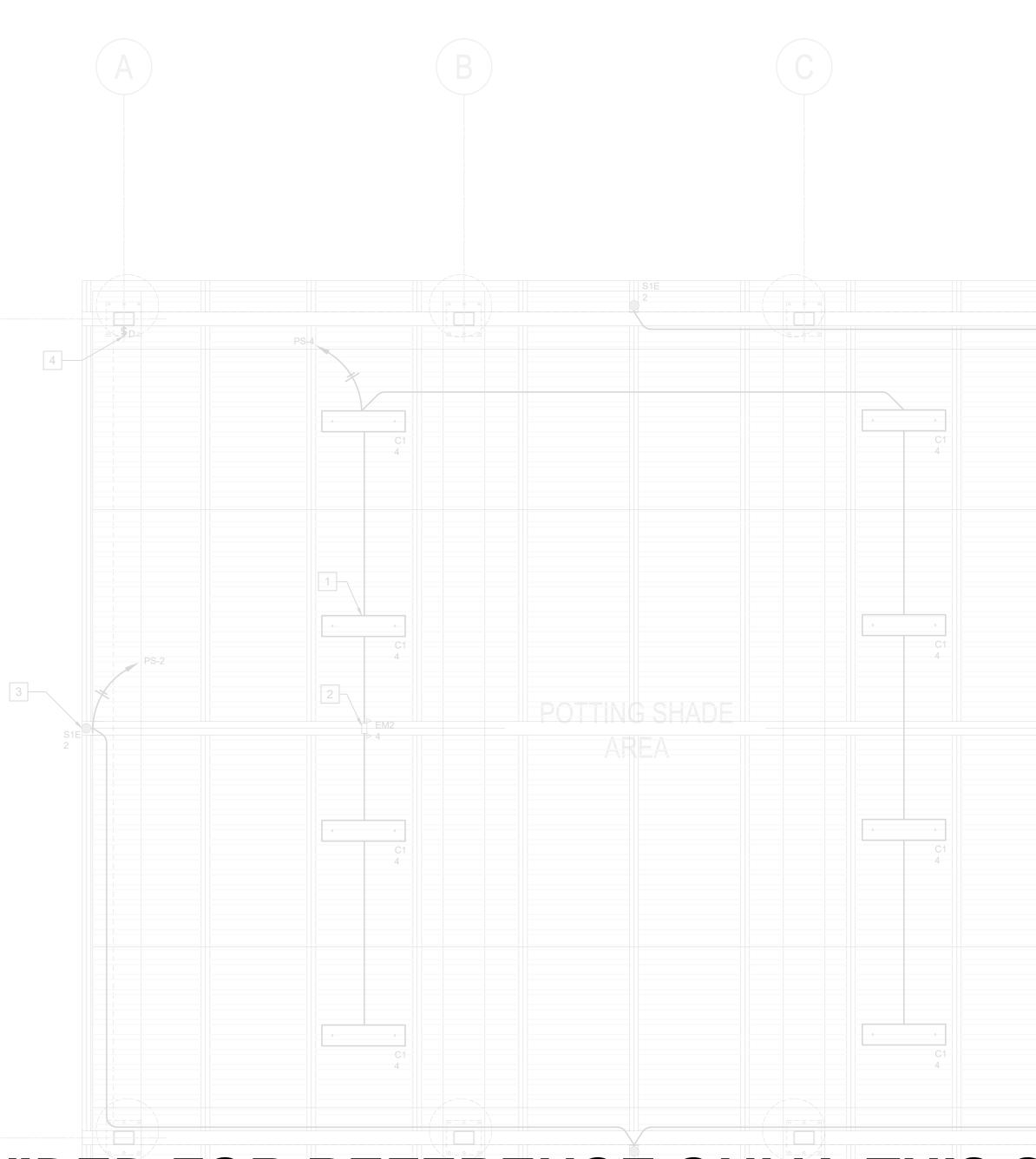
MERCED COLLEGE GREENHOUSE COMPLEX **GREENHOUSE COMPLEX** 

LOAFING BARN LIGHTING PLAN

CONST. DOCUMENTS DR. BY: <u>AS/PM</u> CH. BY: <u>JT</u> DATE: 03/01/2024 SCALE AS NOTED

# THIS SHEET IS PROVIDED FOR REFERENCE ONLY: THIS SCOPE OF WORK IS NOT UNDER THE GREENHOUSE CONTRACTOR'S CONTRACT

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DSA APP# 02-121754

### □ REFERENCE NOTES

- PROVIDE WIRELESS LIGHTING CONTROL SWITCH(ES) WITH W.P. COVER



CONSULTANT

REF. & REV.

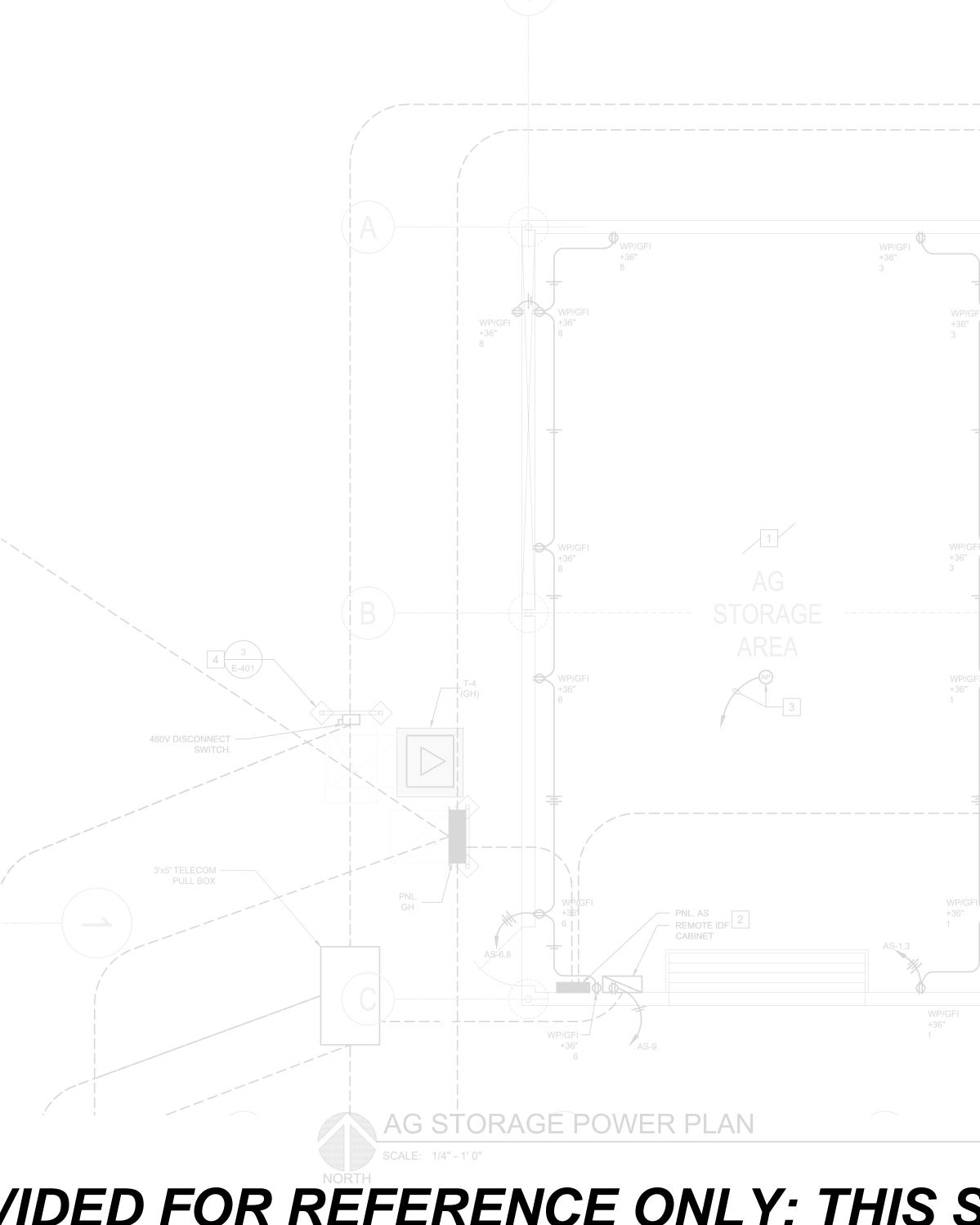
Blair, Church & Flynn Consulting Engineers 451 Clovis Avenue, Suite 200 Clovis, California 93612 Tel (559) 326-1400 Fax (559) 326-1500 MERCED COLLEGE GREENHOUSE COMPLEX

**GREENHOUSE COMPLEX** POTTING SHADE LIGHTING PLAN

CONST. DOCUMENTS DR. BY: <u>AS/PM</u> CH. BY: <u>JT</u> E-205 DATE: 03/01/2024 SCALE AS NOTED

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DSA APP# 02-121754

### □ REFERENCE NOTES

CONSULTANT

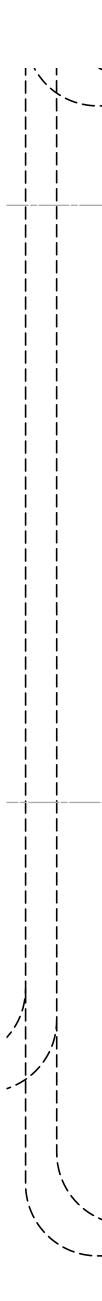
REF. & REV.

MERCED COLLEGE GREENHOUSE COMPLEX

GREENHOUSE COMPLEX AG STORAGE POWER PLAN

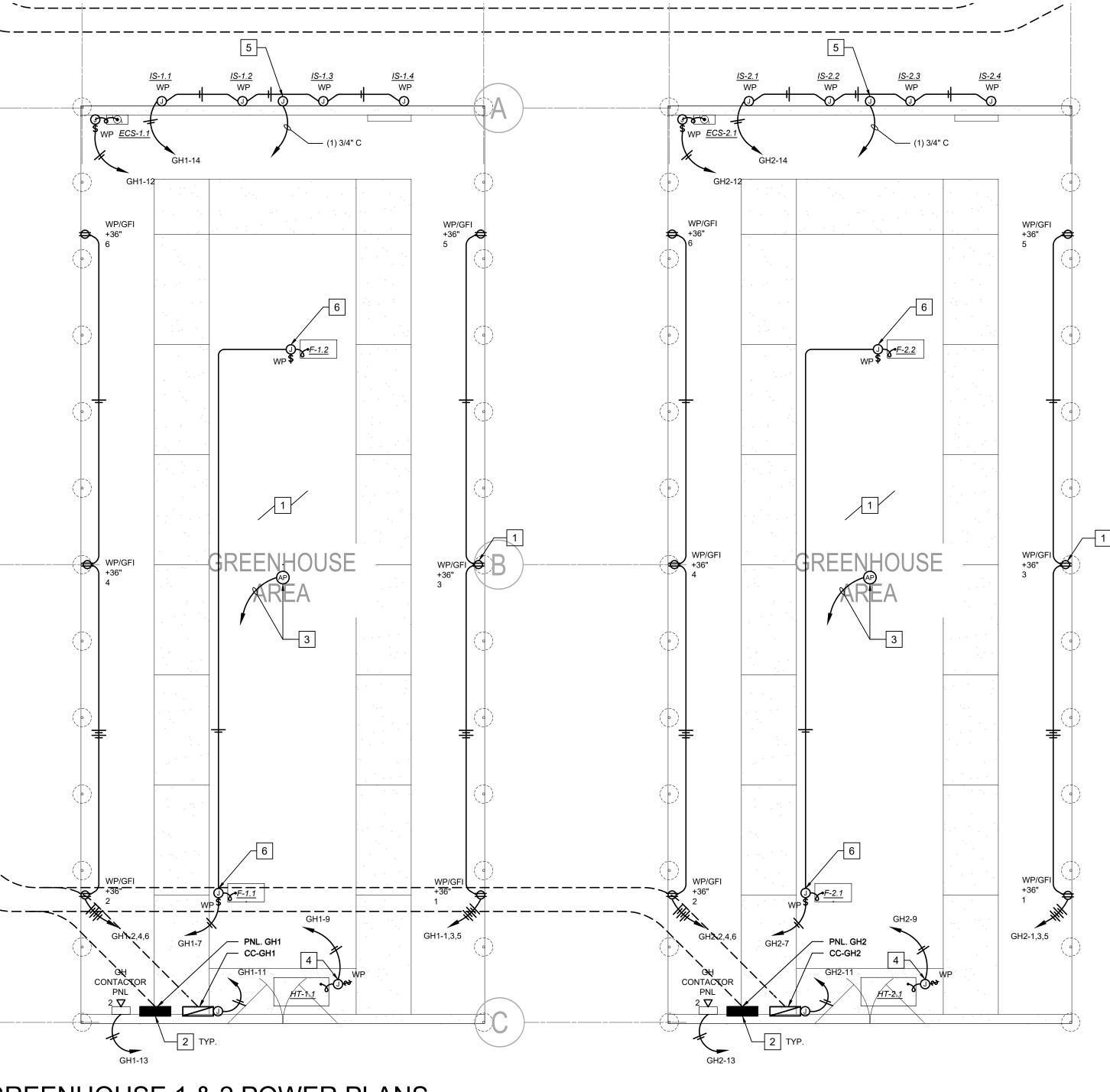
CONST. DOCUMENTS DR. BY: <u>AS/PM</u> CH. BY: <u>JT</u> DATE: <u>03/01/2024</u> E-301 SCALE AS NOTED

Blair, Church & Flynn Consulting Engineers 451 Clovis Avenue, Suite 200 Clovis, California 93612 Tel (559) 326-1400 Fax (559) 326-1500









GREENHOUSE 1 & 2 POWER PLANS

SCALE: 1/4" - 1' 0"



DSA APP# 02-121754

### □ REFERENCE NOTES

- 1. COORDINATE DEVICE MOUNTING LOCATIONS WITH APPROVED SHOP DRAWINGS. (TYP.)
- 2. PROVIDE BACKING PLATE OR SUPPORT TO STRUCTURE FOR PANELS AND COMMUNICATIONS CABINET.(TYP.)
- 3. (F) WIRELESS NETWORK ACCESS POINT AT CEILING. PROVIDE CONDUIT AND J-BOX ONLY. EXTEND CONDUIT TO COMMUNICATIONS CABINET. ACCESS POINT FURNISHED AND INSTALLED BY DISTRICT.
- 4. CONNECT HEATER THROUGH LOCKING W.P. DISCONNECT SWITCH.
- 5. WEATHER STATION MOUNTED TO EXTERIOR. PROVIDE CONDUIT TO GREENHOUSE CONTROL PANEL AND CONTROL WIRE PER MANUFACTURES REQUIREMENTS. COORDINATE FINAL LOCATION WITH DISTRICT.
- 6. CONNECT INTERNAL FAN BRANCH CIRCUIT THROUGH GREENHOUSE CONTACTOR PANEL AND COORDINATE WITH DISTRICT CONTROLS CONTRACTOR.

### **GREEHNOUSE BID ALTERNATE NOTES:**

- 1. GREENHOUSE 3 IS AN ADDITIVE ALTERNATE UNDER THE GREENHOUSE CONTRACTOR'S CONTRACT.
- 2. THE SITE CONTRACTOR IS RESPONSIBLE FOR PREPARATION OF THE BUILDING SUBGRADE PAD FOR ALL GREENHOUSES INCLUDING OVEREXCAVATION AND COMPACTION PER THE PROJECT SPECIFICATIONS.
- 3. BASE BID FOR THE SITE CONTRACTOR INCLUDES PROVIDING WOOD MULCH WITHIN THE FOOTPRINT OF GREENHOUSE #3 AND ROUGH GRADING THE AREA TO DRAIN TO THE INLETS AS SHOWN ON SHEET A100.
- 4. IF THE ALTERNATE FOR THE CONSTRUCTION OF THE GREENHOUSE IS ACCEPTED, THE SITE CONTRACTOR SHALL REMOVE MULCHING AND ROUGH GRADING AT GREENHOUSE 3 FROM THEIR SCOPE OF WORK AND THE GREENHOUSE CONTRACTOR SHALL PROVIDE DECOMPOSED GRANITE AND FINE GRADING WITHIN THE FOOTPRINT OF GREENHOUSE 3.
- BASE BID FOR THE SITE CONTRACTOR INCLUDES PROVIDING 5. ALL UTILITIES UP TO 5' OUTSIDE OF THE GREENHOUSE BUILDING FOOTPRINTS AND CAPPING ALL UTILITIES EXCEPT FOR STORM DRAIN 5' FROM THE EXTERIOR OF GREENHOUSE 3. THE GREENHOUSE CONTRACTOR IS RESPONSIBLE FOR MAKING ALL FINAL CONNECTIONS TO THE GREENHOUSE BUILDINGS

### REF. & REV. CONSULTANT

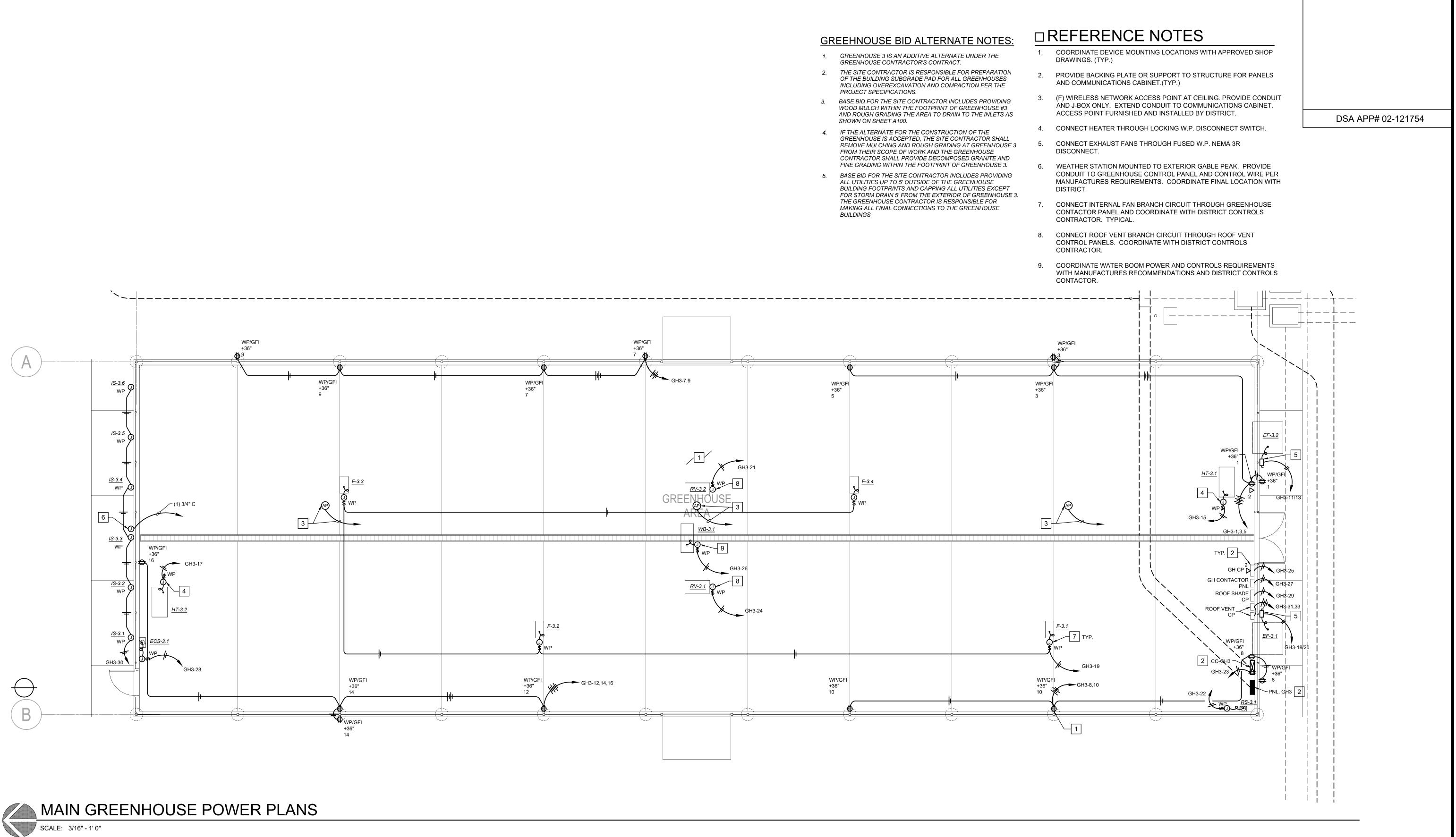
### Blair, Church & Flynn Consulting Engineers 451 Clovis Avenue, Suite 200 Clovis, California 93612 Tel (559) 326-1400 Fax (559) 326-1500

### MERCED COLLEGE GREENHOUSE COMPLEX

GREENHOUSE COMPLEX

GREENHOUSE 1 & 2 POWER PLANS

CONST. DOCUMENTS DR. BY: <u>AS/PM</u> CH. BY: <u>JT</u> DATE: <u>03/01/2024</u> SCALE AS NOTED



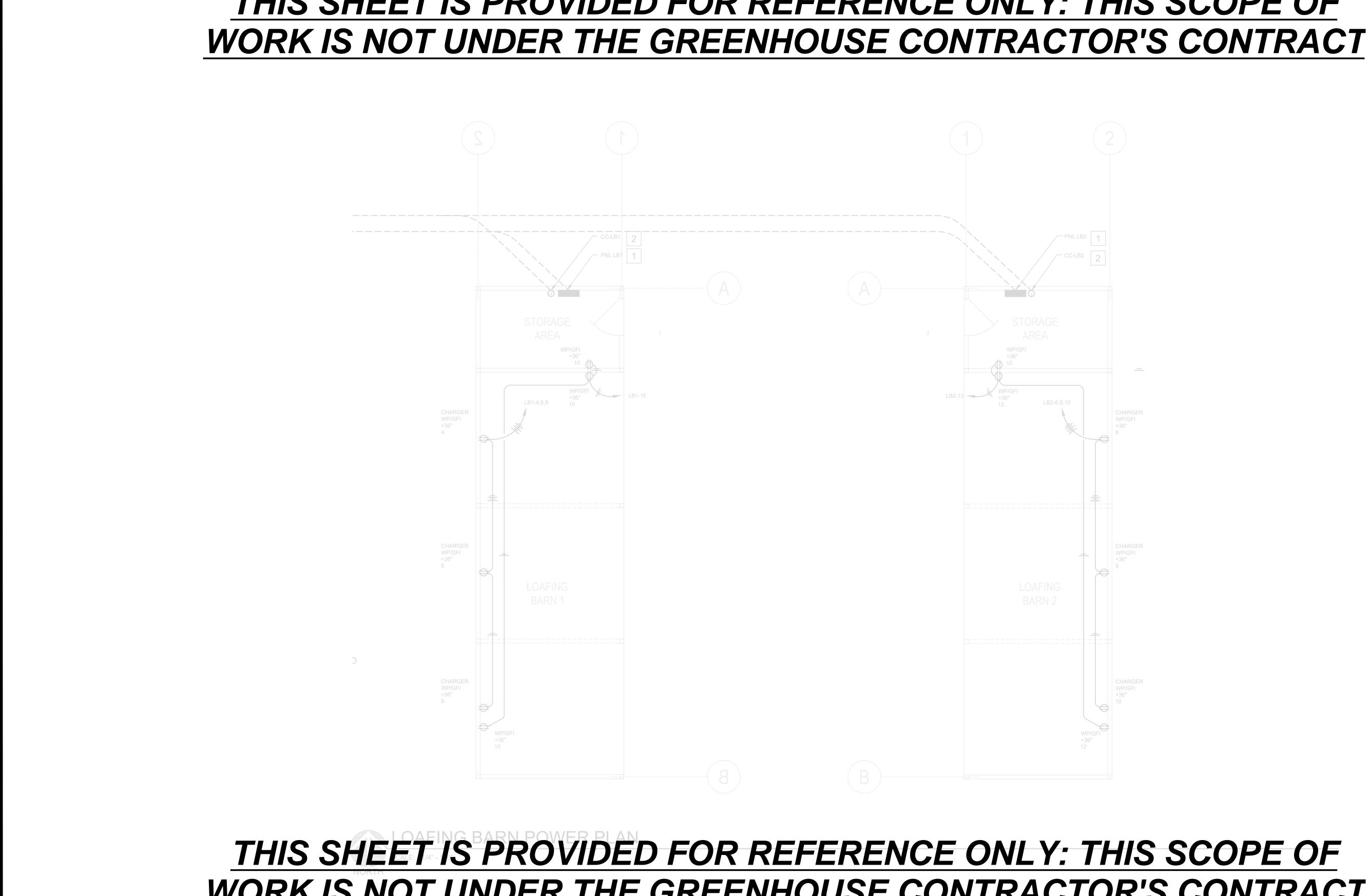
NORTH



CONSULTANT	REF. & REV.	MERCED COLLEGE GREEN	HOUSE COMPLEX
Blair, Church & Flynn Consulting Engineers 451 Clovis Avenue, Suite 200		GREENHOUSE COMPLEX	CONST. DOCUMENTS
Clovis, California 93612 Tel (559) 326-1400 Fax (559) 326-1500		MAIN GREENHOUSE POWER PLAN	DR. BY: <u>AS/PM</u> CH. BY: <u>JT</u> DATE: <u>03/01/2024</u> CH. BY: <u>AS/PM</u> DATE: <u>03/01/2024</u> CH. BY: <u>CH. BY</u>

DR. BY: <u>AS/PM</u> CH. BY: <u>JT</u> DATE: <u>03/01/2024</u> SCALE AS NOTED

E-303



# THIS SHEET IS PROVIDED FOR REFERENCE ONLY: THIS SCOPE OF

# WORK IS NOT UNDER THE GREENHOUSE CONTRACTOR'S CONTRACT



DSA APP# 02-121754

## REFERENCE NOTES

CONSULTANT Blair, Church & Flyni

Consulting Engineers 451 Clovis Avenue,

**Suite 200** Clovis, California 93612 Tel (559) 326-1400 Fax (559) 326-1500 REF. & REV.

MERCED COLLEGE GREENHOUSE COMPLEX

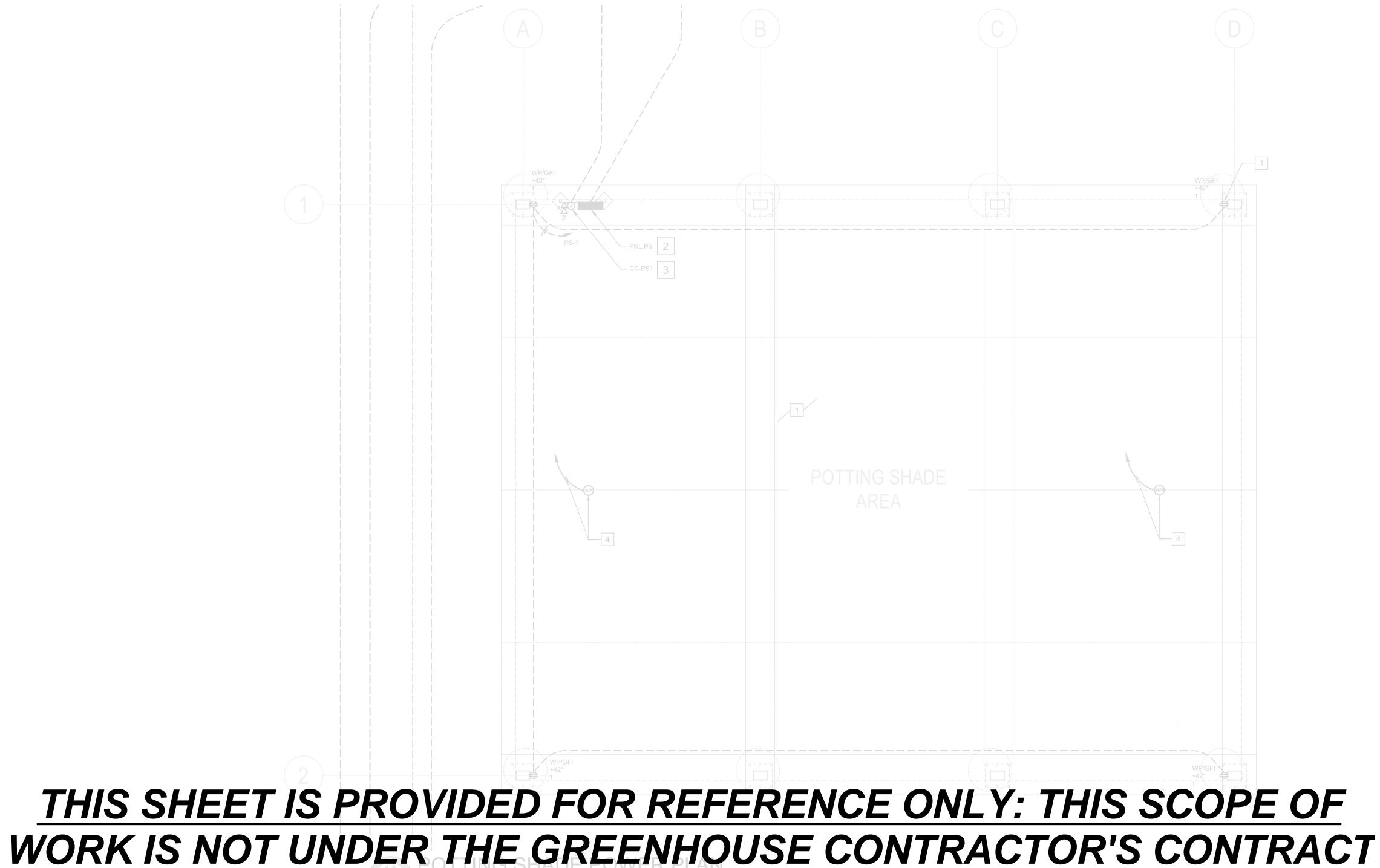
**GREENHOUSE COMPLEX** LOAFING BARNS

POWER PLAN

CONST. DOCUMENTS DR. BY: <u>AS/PM</u> CH. BY: <u>JT</u> DATE: <u>03/01/2024</u> SCALE AS NOTED

E-304

# THIS SHEET IS PROVIDED FOR REFERENCE ONLY: THIS SCOPE OF **WORK IS NOT UNDER THE GREENHOUSE CONTRACTOR'S CONTRACT**





DSA APP# 02-121754

### □ REFERENCE NOTES

CONSULTANT Blair, Church & Flynn

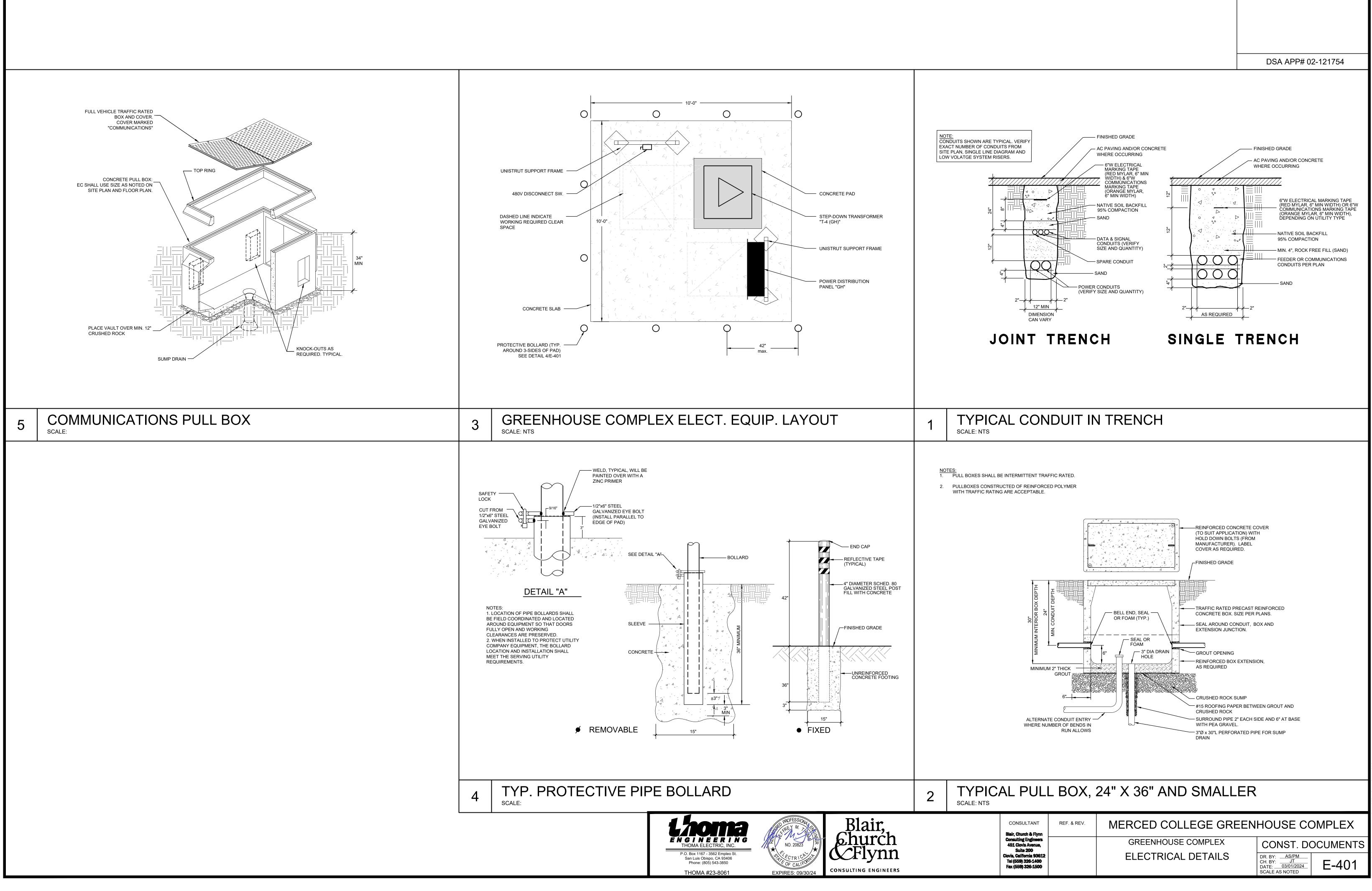
Consulting Engineers 451 Clovis Avenue,

Suite 200 Clovis, California 93612 Tel (559) 326-1400 Fax (559) 326-1500 REF. & REV.

MERCED COLLEGE GREENHOUSE COMPLEX

GREENHOUSE COMPLEX POTTING SHADE POWER PLAN

CONST. DOCUMENTS DR. BY: <u>AS/PM</u> CH. BY: <u>JT</u> DATE: <u>03/01/2024</u> E-305 SCALE AS NOTED



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ROOF LIVE LOAD				
ROOF LIVE LOAD, L _r		20 PSF		
ROOF SNOW LOAD				
GROUND SNOW LOAD, Pg		20 PSF		
RISK CATEGORY ROOF SNOW LOAD: SLOPED, P _s				
		20 PSF		
FOR SNOW LOAD CONDITIONS ONLY - SITE APPLICATION REVIEWER SHALL VERIFY THE STTRUCTUR FROM ANY ADJACENT STRUCTURE FOR SNOW DRIFT.	RE SHALL BE LOCATED	AT LEAST 20 FEET		
SNOW LOAD SLOPE FACTOR, $C_s$		1.0		
SNOW LOAD EXPOSURE FACTOR, Ce		1.0		
SNOW LOAD IMPORTANCE FACTOR, Is		1.0		
THERMAL FACTOR, Ct		1.2		
LOWEST ANTICIPATED SERVICE TEMPERATURE WIND DESIGN		30°		
BASIC WIND SPEED (3 SECOND GUST), V _{ult} , V _{asd}		100 MPH, 78 MPH		
RISK CATEGORY				
EXPOSURE CATEGORY		C		
FACTORS: $K_{z}$ , $K_{d}$		0.85, 1.0, 0.85		
$q_{\rm h} = 0.00256 \text{ K}_{z} \text{ K}_{zt} \text{ K}_{d} \text{ V}^2$		18.50 PSF		
C _{NW} PER ASCE FIGURE 27.3-5 ROOF ANGLE 18.43 - CLEAR / OBSTRUCTED	CASEA	A (1.1 / -1.2) CASEB (0.0	01/-0.69)	
C _{NL} PER ASCE FIGURE 27.3-5 ROOF ANGLE 18.43 - CLEAR / OBSTRUCTED		(-0.17 / -1.09) CASEB (-0	,	
C _N PER ASCE FIGURE 27.3-7 PARALLEL TO RIDGE - CLEAR / OBSTRUCTED (< h)		A (-0.8 / -1.2) CASEB (0	· · · · · · · · · · · · · · · · · · ·	
$C_N$ PER ASCE FIGURE 27.3-7 PARALLEL TO RIDGE - CLEAR / OBSTRUCTED (> h, < 2h)			/	
$C_N$ PER ASCE FIGURE 27.3-7 PARALLEL TO RIDGE - CLEAR / OBSTRUCTED (>2h)		A (-0.6 / -0.9) CASEB (0	/	
	CASEA (-0.3 / -0.6) CASEB (0.3 / 0.3)			
COMPONENTS & CLADDING - C _N ( PRESSURE/SUCTION) CLEAR / OBSTRUCTED		DNE 3 = (2.29 / =2.11) / (1.0 / ·		
		DNE 2 - (1.77 / -1.63) / (0.8 / ·		
SEISMIC DESIGN	20	DNE 1 - (1.15 / -1.05) / (0.5 / ·	=1.0)	
LATERAL FORCE RESISTING SY STEM	STEEL	- ORDINARY CANTILEVER (	COLUMN	
A NA LY SIS PROCEDURE	E	EQUIVALENT LATERAL FOR	CE	
SESIMIC IMORTANCE FACTOR, I.		1.0		
SEISMIC SITE CLASS		D		
MCE _R SPECTRAL RESPONSE A CCELERATION @ 0.2 s, S _s		2.60		
MCE _R SPECTRAL RESPONSE ACCELERATION @ 0.2 s, S ₁		0.90		
SHORT PERIOD SITE COEFFICIENT, Fa		1.20		
LONG PERIOD COEFFICIENT, $F_v$		1.70		
FUNDAMENTAL PERIOD OF THE STRUCTURE, T (WORST CASE FOR ALL STRUCTURES)		0.152 s		
DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD, SDS	2.08			
		2.00		
DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD, S _{DS} - USED TO DETERMINE CS (WITH CAP PER ASCE 7 12.8.1.3) SOIL PROPERTIES MAY NOT BE CLASSIFIED AS SITE CLASS E.		2.08 * 0.70 = 1.456		
DESIGN SPECTRAL RESPONSE ACCELERATION AT 1-s PERIODS, S _{D1}		1.02		
SEISMIC DESIGN CATEGORY		E		
SITE SPECFIC RESPONSE ANALYSIS NOT REQUIRED PER ASCE 7 11.4.8 EXCEPTION 2	T _s = 0.49 s	T < 1.	.5 * T _s	
RESPONSE MODIFICATION FACTOR, R		1.25		
OVERSTRENGTH FACTOR, $\Omega$		1.25		
REDUNDANCY FACTOR, ρ HORIZONTAL OR VERTICAL IRREGULARITIES		1.0 NONE		
SEISMIC RESPONSE COEFFICIENT, C. (20' WIDE, 30' WIDE, 40' WIDE)	4.40		4.00	
SEGMIC REGIONOL COLLINOIENT, Os (20 WIDE, 30 WIDE, 40 WIDE)	1.16	1.00	1.00	
DESIGN BASE SHEAR, V (20' WIDE, 30' WIDE, 40' WIDE) (WORST CASE)	10.62 PSF	12.70 PSF	12.85 F	
ALLOWABLE SOIL BEARING FOR FOUNDATIONS		RIES - SEE FOUNDATION CH	IARTS	
TATE UV ADEL OUT DEADING FUR FUUNDATIONO	V7.(1			
FLOOD DESIGN - DESIGN IS ASSUMED TO NOT BE IN FLOOD HAZARD AREA				

### STRUCTURAL SEPARATION

### ALL DEFLECTIONS SHOWN ALSO INCLUDE THE P-DELTA ROTATION PER IR PC-7

### MAXIMUM DRIFT Omax SIDE COLUMNS

20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES) 30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES) 40' WIDE (8' EAVE , T, 10' EAVE HEIGHT, 12' EAVE H MINIMUM SEPARATION ( $\delta m = Cd \delta max$ ) Cd = 1.25

## [ ] 2.15 [] 2.30 THIS SHEET IS PROV WORK IS NOT UNDER 7

[]2.40

20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EA' 30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' E

MAXIMUM DRIFT δmax END COLUMNS

20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES) 30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES) 40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES) MINIMUM SEPARATION ( $\delta m = Cd \delta max$ ) Cd = 1.25

20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES) 30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES) 40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)

<u>Soil Class 5</u>	Soil Class 4
[] 2.40	[ ] 2.55
[ ] 2.15	[ ] 2.30
[ ] 2.20	[] 2.20
[ ] 3.00	[] 3.19
[] 2.69	[] 2.88
[ ] 2.75	[ ] 2.75

	2 PSF, S = 1.3 PSF 8 PSF, S = 3.7 PSF			(20' BAYS ARE THE MOST ECC		DIAL VILWS SHEET A	DR REFERENCE)		ST COMMON			pg =p Pf =p
201				-FRAME LENGTHS ASSUME 2' OV	ERHANGS	FRAME DIMENSION		ION)			_	Ce =p
201	-9-		. TEP	FRAME WIDTH	[] 20'	SUGGESTED		Γ.	OTHER ] (40' MAX)			<u>WIND</u> V =
20	PSF		<u> </u>	FRAME LENGTH		[] 64' [] 84'			] (NO MAX)			kzt =
20												EXPOSURE:
AT LEAST 20 I			STEP	2: SELECT ROOF DECK FOR YOUR -"M" REPRESENTS McELROY META -"G" REPRESENTS McELROY META	AL "MULTI-							SIESMIC
1.	0		5	-"S" REPRESENTS MCELROY META	al "medal	LION-LOK" 16" STAND ROOF PANEL	ING SEAM ROOF F	ANEL				DESIGN B
1.			STEP	ROOF PANEL TYPE		[] M [] G	[] S					Ss =
1.											-	DESIGN B
3			STEP	3: IDENTIFY THE SS ACCELERATION -Ss VALUE DETERMINES THE REC		SMIC DESIGN FORCES			0.00, 70, 7, 77)			GEOTECH
100 MPH	, 78 MPH			-Ss VAULE DEPENDS ON THE PR -FIND Ss VALUES FOR YN "USGS SEISMIC DESIGN	OUR PROJ	EOGRAPHICAL LOCATIC ECT ON THE USGS WE	BSITE (SEARCH II	E FROM NTERNET	FOR			SITE CLASS:
			STEP 3			ECT SITE – Ss ACCEI	ERATION (g)					Ss =
0.85, 1.	· ·		0			·					S S	DESIGN E
18.50	) PSF CASEB (0.01/-0.69)											PER CHA SHORT-P
	CASEB (-0.96 / -1.65)		STEP	4: IDENTIFY THE SS REGION FOR YO - THE REGIONS ARE DEPENDANT	ON THE S	s VALUE DETERMINED	IN STEP 3					AS SPECI AREA OVE
1	CASEB (0.8 / 0.5) CASEB (0.5 / 0.5)			-THE SS REGION DICTATES THE	MAXIMUM	Ss REGION	ON THE FRAME					CGS APP Not elec
1	CASEB (0.3 / 0.3)						Ss REGIO 0 < Ss <=		MAX DEAD LOAD 5 PSF			SITE CLASS:
	2.11) / (1.0 / -3.0) 1.63) / (0.8 / -2.3)		TEP 4				2.14 < Ss <		5 PSF			Sds = Fa S
1	1.05) / (0.5 / =1.5)			DESC RIPTION			2.50 < Ss <	= 2.60	5 PSF			SITE CLAS
- ORDINARY C	ANTILEVER COLUMN											Cs= X.XXX
EQUIVALENT LA 1.	ATERAL FORCE											SIESMIC DES
	)		STEP	5: IDENTIFY THE ROOF DEAD LOAD - THE ROOF DECK DEAD LOAD V - THE COLLATERAL LOAD REPRES	MILL ALWA	YS BE INCLUDED						*SITE SPEC ALLOWED B
2.6				- BE SURE THE TOTAL ROOF DE DEAD LOAD SHOWN IN STEP 4	AD LOAD	FOR YOUR PROJECT IS R Ss VALUE	S LESS THAN OR					
	20			– Sds VALUE USED IN CALCULAT	TION IS TH	E CAPPED Sds (SEE I TOTAL ROOF DEAD LC						ABBREVIATIONS:
1.1			2	ROOF DECK		DEAD LOAD	N. 1.1005		IPLES			ACI
2.08			STEP	COLLATERAL		PSF			S=1.3PSF (SEE STEP 2)		-	AISC AN
				TOTAL		PSF	ADD ROOF D		D COLLATERAL LOADS 5 PSF)		-	ASTM A
2.08 * 0.70											_	AWS CBC
1.( E			STEP	6: IDENTIFY THE FOUNDATION REQU –IDENTIFY SOIL CLASS FOR PROJ –USE THIS TO SELECT CORRECT	ECT SITE	PER SITE SPECIFIC SC	)IL CONDITIONS ION SHEET					CJP
	T < 1.5 * T _s		4	REA OVER 4000 SQFT REQUIRES A	GEOHAZA	RD REPORT FOUNDATION REQUIR	EMENTS				-	C LR DEG
1.2	25			[ ] GEOTECHNICAL REPORT NOT REG							_	DIA
1. NO			STE	SOIL CLASS 5 (BEARING) 1500 PSI SOIL CLASS 5 (LATERAL BEARING) 200		SOIL CLASS 4 (BEAR			L CLASS 3 (BEARING) 30 CLASS 5 (LATERAL BEARING		-	DIM DSA
1.0	0 1.00			COHESION 130 PSF		FRICTION COEFI	FICIENT 0.25		FRICTION COEFFICIENT	0.30		EQ
12.70 F	PSF 12.85 PSF											GA FT
RIES - SEE FOU	NDATION CHARTS		STEP	7: SELECT MISCELLANEOUS OPTION: -MAXIMUM CLEAR HEIGHT IS 12'- -MARK UP PC DRAWINGS WITH S	-0"; (SEE	"ARCHITEC TURAL VIEV						1N
				-MARK OF FC DRAWINGS WITH S	DIZL AND I	MISCELLANEOU		TING TO	DSA		-	KSI MAX
				CLEAR HE	IGHT		[]8'[]10'		OPTIONS		_	MIN
				ELEC TRIC AL			[] YES		[] NO			MISC
				GUTTER			[ ] YES		[ ] NO			
SEPARATION	IS THE SUM OF 2 OF THESE	SELECTED DEFLECCTION	STEP	8: SELECT APPLICABLE SHEET INDE -REFERENCE THE BASE FRAME (			TYPE (STEP 2)					ARCHITE
DEFLECTIO	ONS ARE FOR (1) STRU	CTURE		-IDENTIFY THE APPLICABLE SHEE		SHEET INDEX						TYPE OF
SOIL CL	ASSES PER CBC TABLE 1806	5A.2		BASE FRAME		RG 20	RG 30		RG 40			OCCUPA
ass 5	Soil Class 4	Soil Class 3		ROOF PANEL TYPE SELECT ONE	M	G S	M G	S []	M G S	5		NUMBER FIRE SPF
)	[ ] 2.55	[ ] 2.65		GENERAL NOTES	LS1.0	LS1.0 LS1.0	LS1.0 LS1.0	LS1.0	LS1.0 LS1.0 LS1	1.0		MOST C
5	[ ] 2.30	[ ] 2.40		FOUNDATION PLAN	LS2.0	LS2.0 LS2.0 LS2.1 LS2.1	LS3.0 LS3.0 LS3.1 LS3.1	LS3.0 LS3.1	LS4.0 LS4.0 LS4 LS4.1 LS4.1 LS4			MOST C
	[_12.20	1230	STEP								_	
IS	PROV	IDED F	-0	FRAME CONNECTION DETAILS	LS2.2	<b>B</b> 3 LS2. 5.1 LS5	LS3.2 LS3.3 LS7.0 LS5.0	- 3.4 - 5.9		4.4 5.0		S_S
)	r 1 2 10	r 1331										
	IDER '	THF G	R	EENHO				51.3		TO	R	D'S
	2.75				V							2022
			CILD	9: INCLUDE APPLICABLE SHEETS W								2022 2022
ass 5	Soil Class 4	Soil Class 3	JILT	-INCLUDE APPLICABLE SHEETS W -INCLUDE 'MISC DESIGN OPTIONS			T ELEC TRICAL CU	TOUTS O	DR GUTTERS			2022 2022
]	[ ] 2.55	[ ] 2.65	STEP	10: IDENTIFY PROJECT NAME AND L	_OC ATION							2022 2022 2022
5	[] 2.30	[] 2.65		PROJECT NAME:		SCHOOL E						2022
)	[ ] 2.20	[] 2.30										TITLE
	A CONTRACT OF	h di seconda	CTED	11. CROSS OUT EXAMPLE 103 FORM	AS & INCO	HONDATE DEALIDER O	PECIAL INCRECITO	NIC 107	FORMS THAT ADE DOO IC	х т		

[] 3.31 [] 3.00

[ ] 2.88

MPH	MILES PER HOUR
M	MULTI-RIB ROOF PANEL (MCELROY)
NTS	NOT TO SCALE
NO	NUMBER
OC	ON CENTER
OSHA	OCCUPATIONAL HEALTH AND SAFETY ADMIN
PCF	POUNDS PER CUBIC FOOT
PJ	PRETENSIONED JOINT
PLC S	PLACES
PLT	PLATE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
QTY	QUANTITY
REF	REFERENCE
SQ	SQUARE
SS	STANDING SEAM ROOF PANEL (MCELROY)
TYP	TYPIC AL
UNO	UNLESS NOTED OTHERWISE
USGS	U.S. GEOLOGICAL SURVEY
W/	WITH
	M           NTS           NO           OC           OSHA           PCF           PLCS           PLCS           PLCS           PSF           QTY           SQ           SQ           TYP           UNO           USGS

DESCRIPTION	DESIGN VAULES
C ONSTRUCTION	II-B
NCY CLASSIFICATION	A-3
	1
RINKLER SYSTEM	NOT BY ICON/WEIGHT NOT INCLUDED IN DESIGN
OMMON RG20 MIN/MAX SQ.FT (SEE STEP 1)	480/2,080
OMMON RG30 MIN/MAX SQ.FT (SEE STEP 1)	720/3,120
OMMON RG40 MIN/MAX SQ.FT (SEE STEP 1)	960/4,160



		1 - 74				
CALIFORNIA	ELEC TRICAL CODE		PARI 3	), ILILE	24,	CCR)
CALIFORNIA	MECHANICAL CODE (CMC)	(	(PART ·	4, TITLE	. 24,	CCR
	PLUMBING CODE (CPC)					
	ENERGY CODE					
	FIRE CODE (CFC)					
CALIFORNIA	GREEN BUILDING STANDARDS CODE	[(P	ART 11	, TITLE	24, (	CCR)
	REFERENCE STANDARDS CODE				24,	CCR)
19 CCR, PL	JBLIC SAFETY, STATE FIRE MARSHAI	L REG	ULATION	1S		
	CENTIONIC FOR ADDUG ADUE CTAND					

	IDENTIFICAT DIV. OF THE STA APP: 02-1217 REVIEWE SS I FLS DATE: 02/2	TE ARCHITECT 54 INC: ED FOR ACS 🗹
		ICON STD RG/DSA-PC DRAWN BY JD DATE 3/21/2023 REV REV DATE .
Y) ADMIN	APPRO DIV. OF THE STA APP: 04-1221 REVIEWE SS I FLS I / DATE: 09/	TE ARCHITECT 88 PC ED FOR ACS ☑ CG □
DESIGN		GENERAL INFO
CCR) CCR) CCR) CCR) CCR) CCR) CCR) CCR)		DISTINCTIVE STEEL SHELTERS WWW.ICONSHELTERS.COM COPYRIGHT 2004, ICON SHELTER SYSTEMS, INC. 1455 LINCOLN AVE HOLLAND MI, 49423 616.396.0919 800.748.0985 616.396.0944 FX
PRE-CHECK (PC Code: 20	C) DOCUMENT 22 CBC for construction is required.	LS1.0

A separate project application for construction is required.

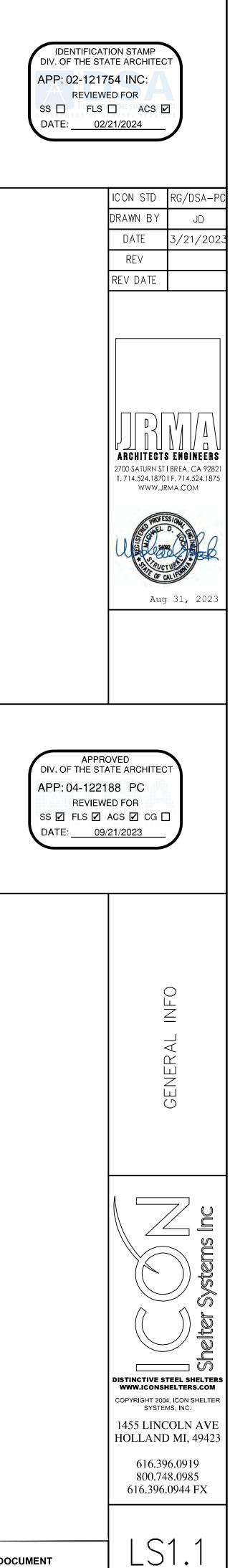
### <u>General:</u>

# THIS SHEET IS PROVIDED FOR REFERENCE ONLY: THIS SCOPE OF WORK IS NOT UNDER THE GREENHOUSE CONTRACTOR'S CONTRACT

0.44 0.35 3" 150 PCF	W/C RATIO (NON—AIR ENTRAINED)	W/C RATIO (AIR ENTRAINED)	SLUMP (±1")	UNIT WEIGHT (NORMAL WEIGHT)
	0.44	0.35	3"	150 PCF

- 4. THE STEEL SHALL THEN HAVE A TGIC POLYESTER COLOR COAT APPLIED OVER THE E-COATED SURFACE.

THIS SHEET IS PROVIDED FOR REFERENCE ONLY: THIS SCOPE OF WORK IS NOT UNDER THE GREENHOUSE CONTRACTOR'S CONTRACT



### **PRE-CHECK (PC) DOCUMENT** Code: 2022 CBC A separate project application for construction is require

DSA 103-22: LISTING O	F STRUCTURAL TESTS & SPI
Application Number:	School Name:
04-122188	PC Update
DSA File Number:	Increment Number:

# THIS SHEET IS PROVIDED FOR REFERENCE ONLY, THIS SCOPE OF WORK IS NOT UNDER THE GREENHOUSE CONTRACTOR'S CONTRACT

ory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 CBC). **NOTE: Undefined section and table references found in this document are from the CBC, or California Building Code.

### DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC

Application Number:School Name:04-122188PC UpdateDSA File Number:Increment Number:				School District: PC Update Date Created: 2023-04-19 08:36:32	
	Test or Special Inspection		Туре	Performed By	Code References and Note
	diameters (if applicable	diameters, plumbness, bell ), lengths and embedment into record concrete or grout	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix (end of this form) for exemptions.)
	c. Confirm adequate en	d strata bearing capacity.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix (end of this form) for exemptions.)
	d. Concrete piers.		Provide tests a	nd inspections pe	r CONCRETE section below.
	S5. RETAINING WALLS				
	Test or Special Inspect		Туре	Performed By	Code References and Notes
	a. Placement, compacti	on and inspection of backfill.	Continuous	GE*	1705A.6.1. * By geotechnical engineer or his or her qualified representative. (See section S2 above).
	b. Placement of soil reir devices.	forcement and/or drainage	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
	c. Segmental retaining	walls; inspect placement of	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.

### DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (CONCRETE), 2022 CBC

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (CONCRETE) 2022 CBC THIS SHEET IS PROV **WORK IS NOT UNDER** 

Туре	Performed By	Code References and Notes
Periodic	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix (end of this form) form for exemptions.)
Туре	Performed By	Code References and Notes
Test	LOR*	* Under the supervision of the geotechnical engineer.
Continuous	GE*	* By geotechnical engineer or his or her qualified representative. (Refer to specific items identified in the Appendix (end of this form) form for exemptions where soils SI and testing may be conducted under the supervision of a geotechnical engineer or LOR's engineering manager. In such cases, the LOR's form DSA 291 shall satisfy the soil SI and test reporting requirements for the exempt items.)
Test	LOR*	* Under the supervision of the geotechnical engineer. (Refer to specific items identified in the Appendix (end of this form) for exemptions where soils testing may be conducted under the supervision of a geotechnical engineer or LOR's engineering manager. In such cases, the LOR's form DSA 291 shall satisfy the soil test reporting requirements for the exempt items.)
	Periodic Periodic Type Test Continuous	Periodic GE* Type Performed By Test LOR* Continuous GE*

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC

Table 1705A.6, Table 1705A.	7, Table 1705A.8
Application Number:	School Name:
04-122188	PC Update

Increment Number:		Date Created: 2023-04-19 08:36:32		
tion	Туре	Performed By	Code References and Notes	
	Test	GE*	Submit a comprehensive report documenting final soil improvement constructed, construction observation and the results of the confirmation testing and analysis to CGS (California Geological Surv for final acceptance. * By geotechnical engineer or his or her qualified representative.	
provements	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.	

-19 Sections 26.12 & 26.13	STS & ST LCIAL		NO (CONCRETE), 2022 CDC		OF THE STATE ARCHIT	
School Name: PC Update Increment Number:			School District: PC Update Date Created: 2023-04-19 08:36:32		103-22 (Revised 12/01	
(IN ADDITION TO SECTION C1):				1705A	.2.1, Table 1705A.2.1; AIS	OF STRUCTURAL TESTS
nspection	Туре	Performed By	Code References and Notes	04-12	cation Number: 2188 File Number:	School Name: PC Update Increment Number:
ete placement for proper liques.	Continuous	SI	1705A.3.9, Table 1705A.3 Item 7, 1908A.1, 1908A.2, 1908A.3. See ACI 506.2-13 Section 3.4, ACI 506R-16.		1	TEEL, COLD-FORMED STEEL AND A
/IDED	FOF	R R	EFERENCE O	NL		
LLED ANCHORS:	RE		HOUSE CONT	<b>R</b> A	Material sizes, types a requirements     . Ast unidentified m	erials <b>R'S</b>
tion of po <del>st</del> -installed anchors	Sec Notes	SI*	1705A.3.8 (See Appendix (end of this form) for exemptions). ACI 318-14 Sections 17.8 & 26.13. * May be performed by the project inspector when specifically approved by DSA.	✓		t steel fabrication per DSA- documents.
			inspector when specifically approved by box.			
lled anchors.	Test	LOR	1910A.5. (See Appendix (end of this form) for exemptions.)		S/A2. HIGH-STRENGTI	H BOLTS:
					Test or Special Inspec	
CRETE:				V		narkings and manufacturer's ce conform to ASTM standards proved documents.
nspection	Туре	Performed By	Code References and Notes		b. Test high-strength b	olts, nuts and washers.
				$\checkmark$	c. Bearing-type ("snug	ight") connections.
					d. Pretensioned and sli	p-critical connections.

S3. DRIVEN DEEP FOUNDATIONS (PILES):
Test or Special Inspection
a. Verify pile materials, sizes and lengths comp the requirements.
b. Determine capacities of test piles and conduced additional load tests as required.
c. Inspect driving operations and maintain con and accurate records for each pile.
d. Verify locations of piles and their plumbness confirm type and size of hammer, record numb blows per foot of penetration, determine requ penetrations to achieve design capacity, record and butt elevations and record any pile damag
e. Steel piles.
f. Concrete piles and concrete filled piles.
g. For specialty piles, perform additional inspe as determined by the registered design profes responsible charge.
S4. CAST-IN-PLACE DEEP FOUNDATIONS (PI
Test or Special Inspection

)SA 103-22: LISTIN	G OF STRUCTURAL TE
able 1705A.3; ACI 318-19	Sections 26.12 & 26.13
Application Number:	School Name:
94-122188	PC Update
DSA File Number:	Increment Number:

	CT. CAST-IN-PLACE CONCRETE
	Test or Special Inspection
$\checkmark$	a. Verify use of required design mix.
	b. Identifiy, sample, and test reinforcing steel.
$\checkmark$	c. During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.
$\checkmark$	d. Test concrete (f'c).
	e. Batch plant inspection:
	f. Welding of reinforcing steel.
	C2. PRESTRESSED / POST-TENSIONED CONCRETE (
	Test or Special Inspection
	a. Sample and test prestressing tendons and anchorages.

b. Inspect placement of prestressing tendons.	

	Туре	Performed By	Code References and Notes
vith	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
	Test	LOR*	* Under the supervision of the geotechnical engineer.
ete	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
of I	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
	Provide tests a	nd inspections pe	r STEEL section below.
	Provide tests a	nd inspections pe	r CONCRETE section below.
ns nal in	*	*	* As defined on drawings or specifications.

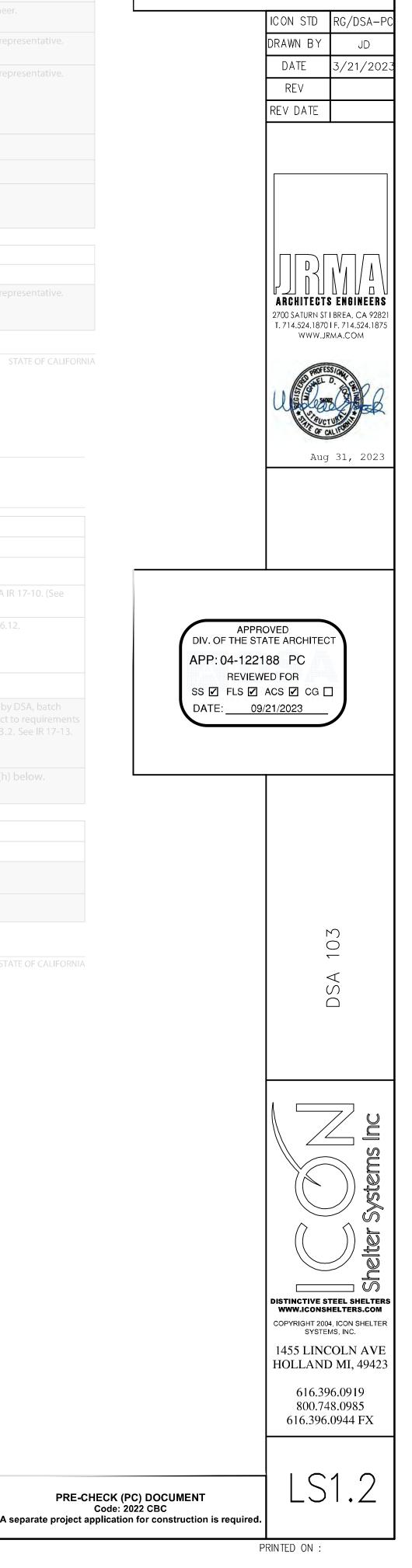
~ / •			
	Туре	Performed By	Code References and Note
ete	Continuous		* By geotechnical engineer or his or her qualified representative. (See Appendix (end of this form) for exemptions.)

Туре	Performed By	Code References and Notes
Periodic	SI	Table 1705A.3 Item 5, 1910A.1.
Test	LOR	1910A.2; ACI 318-19 Ch.20 and Section 26.6.1.2; DSA IR 17-10. (See Appendix (end of this form) for exemptions.)
Test	LOR	Table 1705A.3 Item 6; ACI 318-19 Sections 26.5 & 26.12.
Test	LOR	1905A.1.17; ACI 318-19 Section 26.12.
See Notes	SI	Default of 'Continuous' per 1705A.3.3. If approved by DSA, batch plant inspection may be reduced to 'Periodic' subject to requirements in Section 1705A.3.3.1, or eliminated per 1705A.3.3.2. See IR 17-13. (See Appendix (end of this form) for exemptions.)
Provide speci	al inspection pe	r STEEL, Category S/A4(d) & (e) and/or S/A5(g) & (h) below.

Туре	Performed By	Code References and Notes
Test	LOR	1705A.3.4, 1910A.3
Periodic	SI	1705A.3.4, Table 1705A.3 Items 1 & 9.



Туре	Performed By	Code References and Notes
Periodic	SI	Table 1705A.2.1 Items 1a & 1b, 2202A.1; AISC 360-16 Section A3.3, J3.1, and N3.2; RCSC 2014 Section 1.5 & 2.1; DSA IR 17-8 & DSA IR 17-9.
Test	LOR	Table 1705A.2.1 Item 1c, 2213A.1; RCSC 2014 Section 7.2; DSA IR 17-8.
Periodic	SI	Table 1705A.2.1 Item 2a, 1705A.2.6, 2204A.2; AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Section 9.1; DSA IR 17-9.
*	SI	Table 1705A.2.1 Items 2b & 2c, 1705A.2.6, 2204A.2; AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Sections 9.2 & 9.3; DSA IR 17-9. *"Continuous" or "Periodic" depends on the tightening method used.



**IDENTIFICATION STAMP** DIV. OF THE STATE ARCHITEC

APP: 02-121754 INC: **REVIEWED FOR** SS 🔲 FLS 🔲 ACS 🗹

DATE: 02/21/2024

DSA 103-22: LISTING	G OF STRUCTURAL TESTS & SC 303-16, AISC 341-16, AISC 358-16, AISC School Name:	SPECIAL INSTECT		NNNUM ZUZZEBC	SPRO
Application Number.	School Name.		School District.		04 122100
04-122188	PC Update		reopuate		DSA Eila Number
DSA File Number:	Increment Number:	-WO	RK-14-19	NOTL	INDER

	S/A3. WELDING:				S/A5. FIELD WELDING (IN ADDITION TO SECTION S/A3):				
	Test or Special Inspection	Туре	Performed By	Code References and Notes	Test or Special Inspection	Туре	Performed By	Code References and Notes	
$\checkmark$	a. Verify weld filler material identification markings per AWS designation listed on the DSA-approved documents and the WPS.	Periodic	SI	1705A.2.5, Table 1705A.2.1 Items 4 & 5; AWS D1.1 and AWS D1.8 for structural steel; AWS D1.2 for Aluminum; AWS D1.3 for cold-formed	a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	Continuous	SI	Table 1705A.2.1 Items 5a.1–4; AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3.	
	b. Verify weld filler material manufacturer's certificate of	Periodic	SI	steel; AWS D1.4 for reinforcing steel; DSA IR 17-3.	b. Inspect single-pass fillet welds $\leq 5/16''$ .	Periodic	SI	Table 1705A.2.1 Item 5a.5; AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3.	
	compliance.	i choure	51	borther b.	<ul> <li>c. Inspect end-welded studs (ASTM A-108) installation</li> </ul>	Periodic	SI	2213A.2; AISC 360-16 (AISC 341-16 as applicable); AWS D1.1; DSA IR	
$\checkmark$	c. Verify WPS, welder qualifications and equipment.	Periodic	SI	DSA IR 17-3.	(including bend test).	renouic	51	17-3.	
					d. Inspect floor and roof deck welds.	Periodic	SI	1705A.2.2, Table 1705A.2.1 Item 5a.6; AISC 360-16 (AISC 341-16 as	
	S/A4. SHOP WELDING (IN ADDITION TO SECTION S/A3):							applicable); AWS D1.3; DSA IR 17-3.	
	Test or Special Inspection	Туре	Performed By	Code References and Notes	e. Inspect welding of structural cold-formed steel.	Periodic	SI*	1705A.2.5; AWS D1.3; DSA IR 17-3. The quality control provisions of AISI S240-20 Chapter D shall also apply. * May be performed by the	
$\checkmark$	a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	Continuous	SI	Table 1705A.2.1 Items 5a.1–4; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.				project inspector when specifically approved by DSA.	
Image: A start of the start	b. Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds.	Periodic	SI	1705A.2.2, Table 1705A.2.1 Items 5a.5 & 5a.6; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.	f. Inspect welding of stairs and railing systems.	Periodic	SI*	1705A.2.1; AISC 360-16 (AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3. * May be performed by the project inspector when	
	c. Inspect welding of stairs and railing systems.	Periodic	SI	1705A.2.1; AISC 360-16 (and AISC 341-16 as applicable); AWS D1.1 &				specifically approved by DSA.	
				D1.3; DSA IR 17-3.	<b>g</b> . Verification of reinforcing steel weldability.	Periodic	SI	1705A.3.1; AWS D1.4; DSA IR 17-3. Verify carbon equivalent	
	d. Verification of reinforcing steel weldability	Periodic	SI	1705A.3.1; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported				reported on mill certificates.	
	other than ASTM A706. e. Inspect welding of reinforcing steel.	Continuous	SI	on mill certificates. Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8: AWS D1.4: DSA IR 17-3.	h. Inspect welding of reinforcing steel.	Continuous	SI	Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8; AWS D1.4; DSA IR 17-3.	

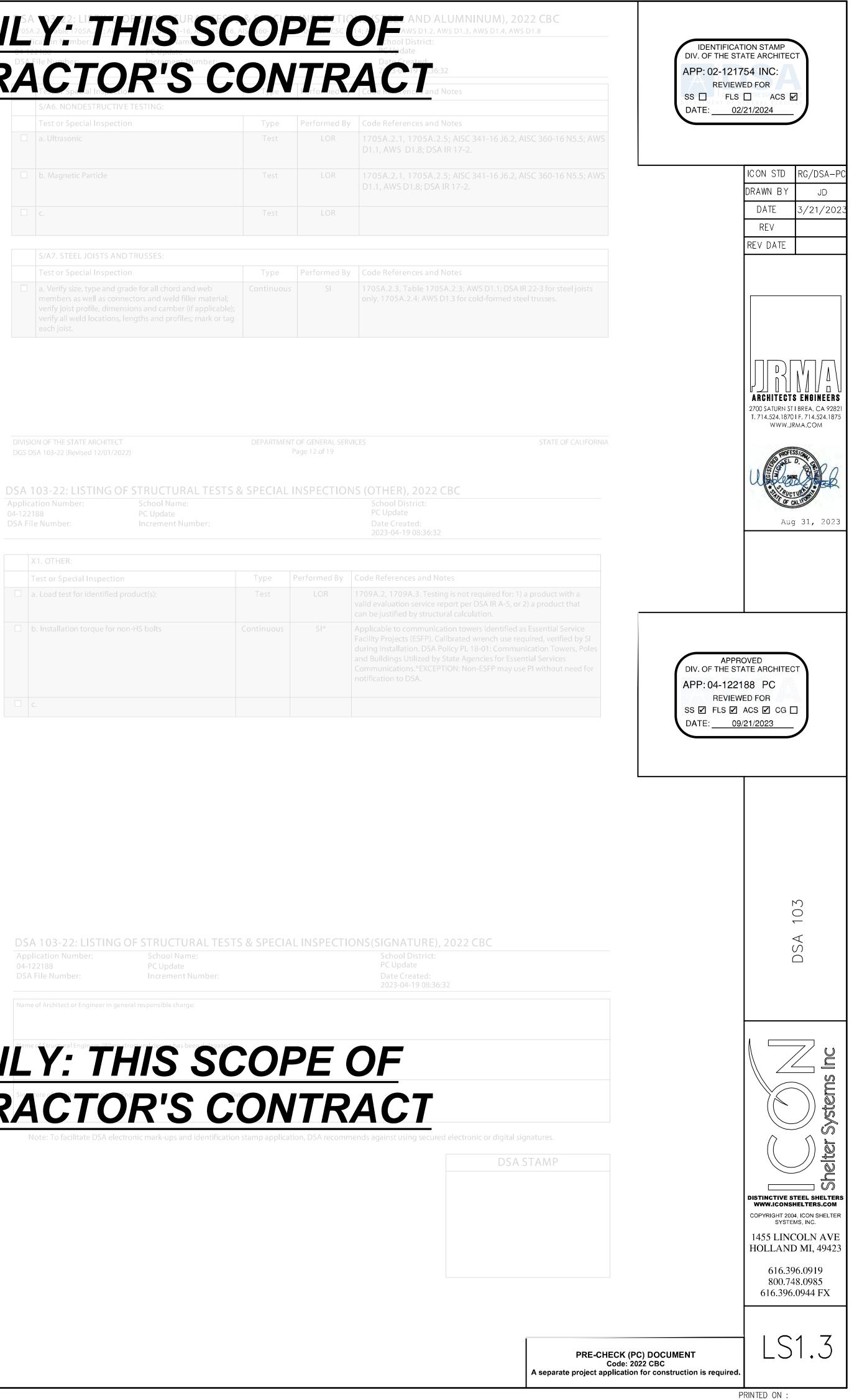
DIVISION OF THE STATE ARCHITECT		NT OF GENERAL SERV	ICEC	STATE OF CALIFORNIA	DIVISION OF THE STATE ARCHITECT		DEPARTME	NT OF GENERAL SERV	ICES	STATE OF
DGS DSA 103-22 (Revised 12/01/2022)	DEPARTMEN	Page 10 of 19		STATE OF CALIFORNIA	DGS DSA 103-22 (Revised 12/01/2022	2)		Page 11 of 19		
DSA 103-22: LISTING OF STRUCTURAL TESTS					DSA 103-22: LISTING OF					
1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, Application Number:           School Name:	AISC 360-16; AIS	15100-20; RCSC 20	School District:	WS D1.8	1705A.2.1, Table 1705A.2.1; AISC 30 Application Number:	3-16, AISC 341-16, AISC 358-16, A School Name:	ISC 360-16; AIS	I S100-20; RCSC 201	4; AWS D1.1, AWS D1.2, AWS D1.3, A School District:	WS D1.4, AWS D1.8
04-122188 PC Update DSA File Number: Increment Number:			PC Update Date Created:		04-122188	PC Update			PC Update	
DSA File Number. Increment Number.			2023-04-19 08:36:32		DSA File Number:	Increment Number:			Date Created: 2023-04-19 08:36:32	
Test or Special Inspection	Туре	Performed By	Code References and Notes		Test or Special Inspection		Туре	Performed By	Code References and Notes	
S/A8. SPRAYED FIRE-RESISTANT MATERIALS:					c. Storage rack anchorage in		Periodic	SI	ANSI/MH16.1 Section 7.3.2; Table	17054 13 7
Test or Special Inspection	Туре	Performed By	Code References and Notes				i criouic	51	7103/ WITTO. T Section 7.3.2, Tuble	17037(13.7
<ul> <li>a. Examine structural steel surface conditions, inspect application, take samples, measure thickness and verify compliance of all aspects of application with DSA- approved documents.</li> </ul>	Periodic	SI	1705A.15, 1705A.1, 1705A.2, 1705A.3, 170	05A.4.	d. Completed storage rack with the approved construct	system to indicate compliance tion documents.	Periodic	SI*	Table 1705A.13.7; * May be prefor specifically approved by DSA.	med by the project inspecto
b. Test density.	Test	LOR	1705A.15.1, 1705A.15.5, ASTM E736		S/A11. Other Steel					
					Test or Special Inspection		Туре	Performed By	Code References and Notes	
C. Bond strength adhesion/cohesion.	Test	LOR	1705A.15.1, 1705A.15.4, ASTM E605		a.					
S/A9. ANCHOR BOLTS AND ANCHOR RODS:										
Test or Special Inspection	Туре	Performed By								
☑ a. Anchor Bolts and Anchor Rods	Test	LOR	Sample and test anchor bolts and anchor roc per procedures noted in DSA IR 17-11.	-						
b. Threaded rod not used for foundation anchorage.	Test	LOR	Sample and test threaded rods not readily identify noted in DSA IR 17-11.	entifiable per procedures						
S/A10. STORAGE RACK SYSTEMS:										
Test or Special Inspection	Туре	Performed By	Code References and Notes							
a. Materials used, to verify compliance with one or more	Periodic	SI	Table 1705A.13.7							
of the material test reports in accordance with the approved construction documents.	renouic		Table 1705A.15.7							
b. Fabricated storage rack elements.	Periodic	SI	1704A.2.5; Table 1705A.13.7							
DIVISION OF THE STATE ARCHITECT	DEPARTMEN	T OF GENERAL SERV	CES	STATE OF CALIFORNIA						
DGS DSA 103-22 (Revised 12/01/2022)		Page 13 of 19								
							ments for	Structural Te	sts / Special Inspections	)
Appendix: Work Exempt from DSA Require	ments for S	Structural Te	ts / Special Inspections		Application Number: 04-122188	School Name: PC Update			School District: PC Update	
Application Number: School Name:			School District:		DSA File Number:	Increment Number:			Date Created: 2023-04-19 08:36:32	
04-122188 PC Update DSA File Number: Increment Number:			PC Update Date Created:						2023 01 17 00.30.32	
			2023-04-19 08:36:32		CONCRETE/MASON					
Exempt items given in DSA IR A-22 or the 2019 CBC (i				· · · · · · · · · · · · · · · · · · ·		g bars is not required for item	is given in CB	C Section 1910A.2	subject to the requirements an	d limitations
design professional are NOT subject to DSA requirem be identified on the approved construction docun					in that section.					
construction documents.	<u>rento</u> . The pr									
SOILS:			IS SHEE	- 1 1 3 1	PRUVIL	ノヒレ ト	UF	K KE	=FEKE	NLE
1. Deep foundations acting as a cantilever footing w	ith a design b		allowable pressures per CBC Table 1806A 2	and without a	less than 8'-0" above lo	west adjacent grade. When h	ocated above	circulation or occ	upied space below, these gates,	fences are not located w
geotechnical report for the following cases: A) free	tanding signation			tanangi, lighing	fresheight (ma	8'-0") to the edge of the or m	f.			
poles, flag poles, poles supporting open mesh fence or D) covered walkway structure with an apex heigh	es, etc.), C) si q at less than 1		RK IS NC	origishade structure)	2. Hardin its, guar raile	anom quiar or Floce at a	mp lassoc	itea w ih 🛛 Ik ig	e nices Vissi hay 80° as ivi aqi	jacenturade (ikclurin ip
<ul> <li>2. Shallow foundations, etc. are exempt from specia</li> </ul>				A) buildings without					5	
a geotechnical report and meeting the exception it									as in interior partitions, interior eer no more than 5/8" thickness	
(not exceeding 12" depth per CBC Section 1804A.6) exterior non-structural flatwork (e.g., sidewalks, site									e equivalent of that occurring fr	
areas, or E) utility trench backfill.					wall for a header or kin					
									e., light gauge) for mechanical, e	
CONCRETE/MASONRY:						0# (equipment only) (connec s) for Sections S/A3, S/A4 and			ructure elements using welding	will require special inspe
1. Post-installed anchors for the following: A) exemp item 7 for "Welding" in the Appendix below) given i wall partitions meeting criteria listed in exempt iten	n CBC Section	1617A.1.18 (whicl	n replaces ASCE 7-16, Section 13.1.4) or B) into		5. Manufactured comp	onents (e.g., Tolco, B-Line, Af	con, etc.) for i	nechanical, electr	ical, or plumbing hanger suppor ion as noted in selected item(s) f	
2. Concrete batch plant inspection is not required for	or items given i	n CBC Section 17	05A.3.3.2 subject to the requirements and lim	nitations	of listing above).		0 042			
in that section. 3. Non-bearing non-shear masonry walls may be ex-	empt from cert	tain DSA masonn	testing and special inspection items as allow	red per DSA					al equipment (e.g., playground s	
IR 21-1. Refer to construction documents for specific						located in the Steel/Aluminu			require special inspection as not	eu în selected îtem(s) for
4. Epoxy shear dowels in site flatwork and/or other	non-structural	concrete.			7. Any support for exer	npt non-structural componer	nts given in C	BC Section 1617A	.1.18 (which replaces ASCE 7-16,	, Section 13.1.4) meeting t

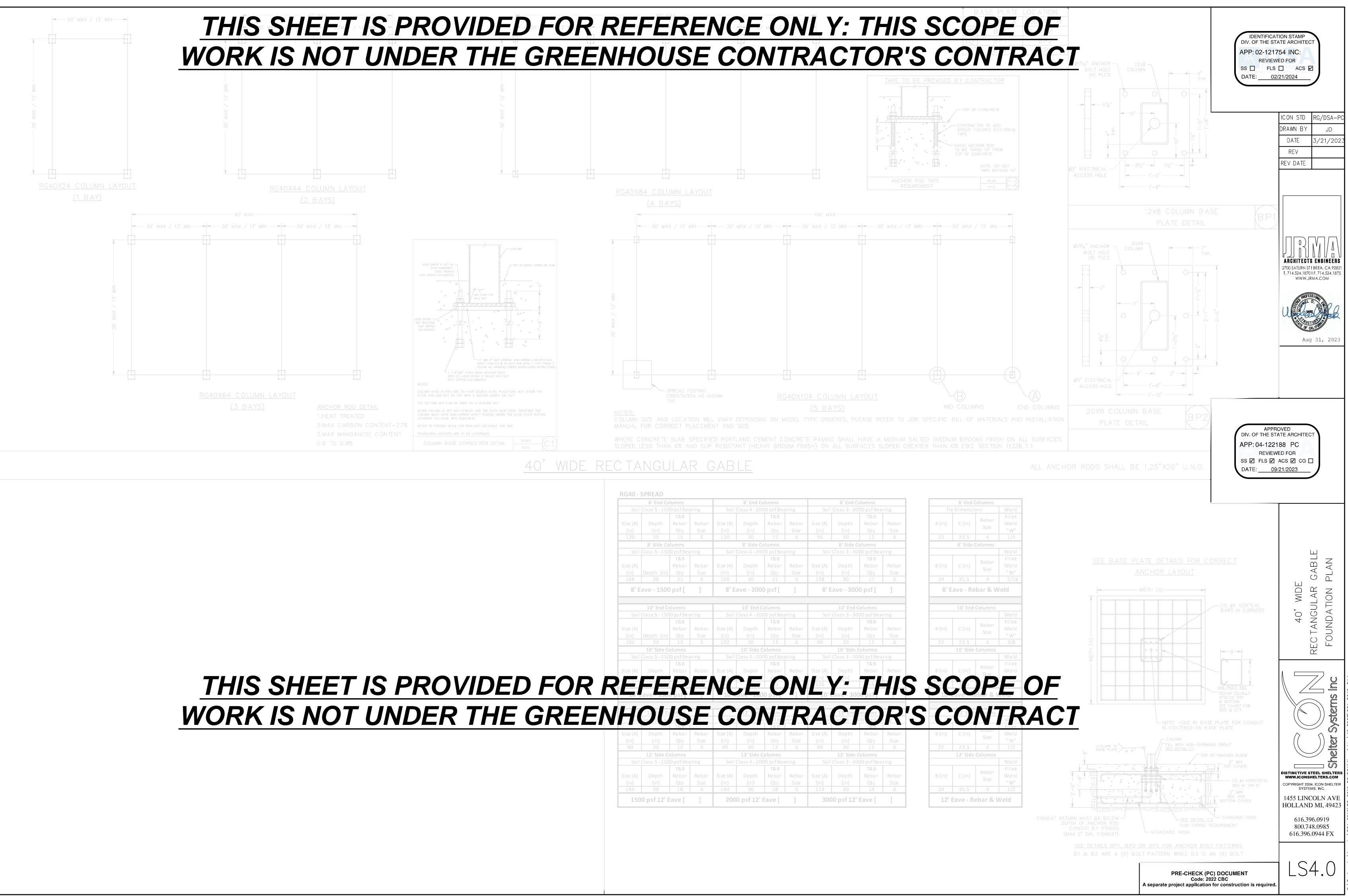
# VIDED FOR REFERENCE ONLY INTERTHIS SCOPE OF THE GREENHOUSE CONTRACTOR'S CONTRACT

PC Update Increment Number:			PC Update Date Created: 2023-04-19 08:36:32
Inspection	Туре	Performed By	Code References and Notes
anchorage installation.	Periodic	SI	ANSI/MH16.1 Section 7.3.2; Table 1705A.13.7
torage rack system to indicate compliance ved construction documents.	Periodic	SI*	Table 1705A.13.7; * May be preformed by the project inspector when specifically approved by DSA.
teel			
Inspection	Туре	Performed By	Code References and Notes

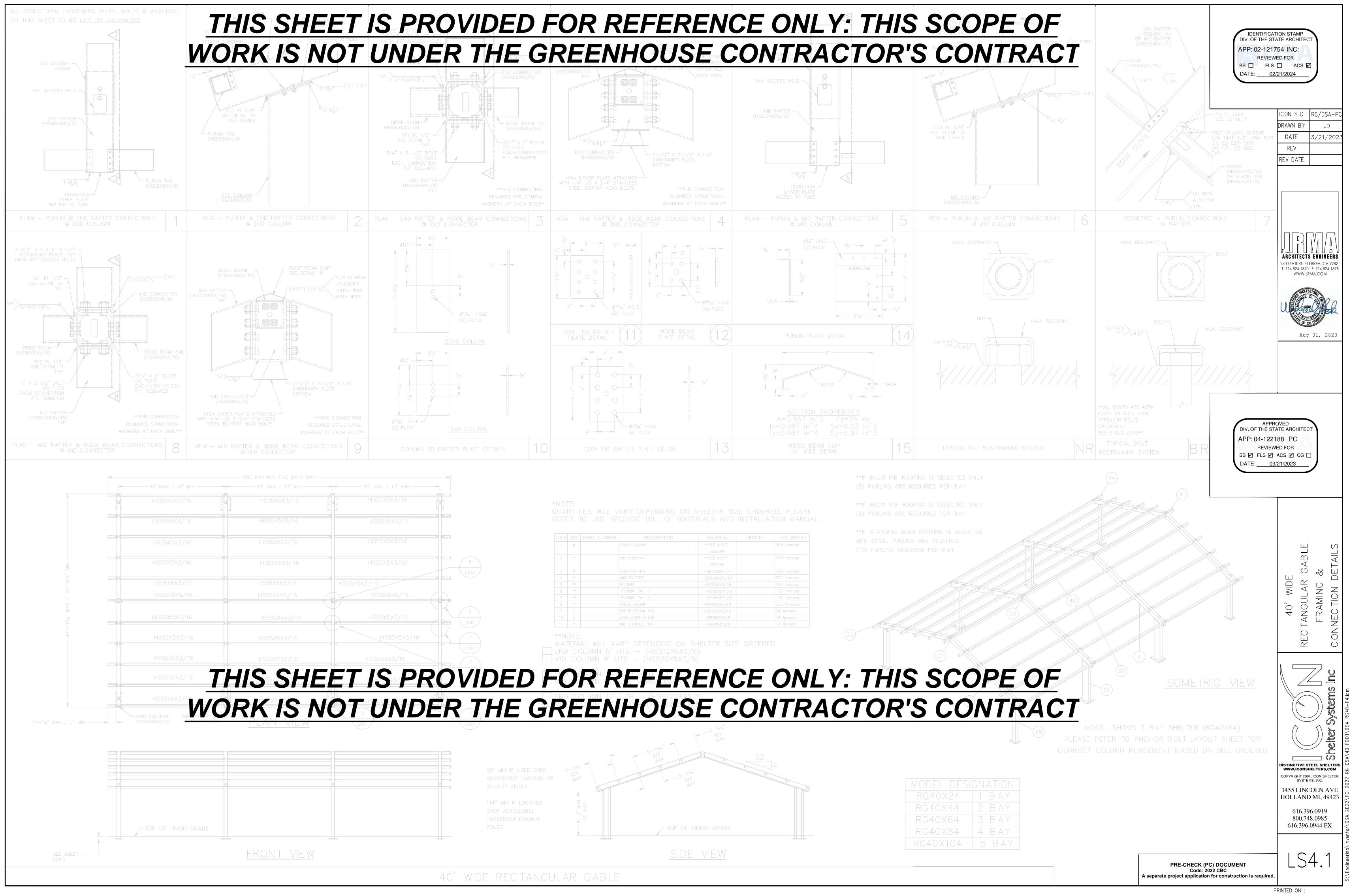
X1. OTHER:
Test or Special Inspection
a. Load test for identified product(s):
b. Installation torque for non-HS bolts
С.

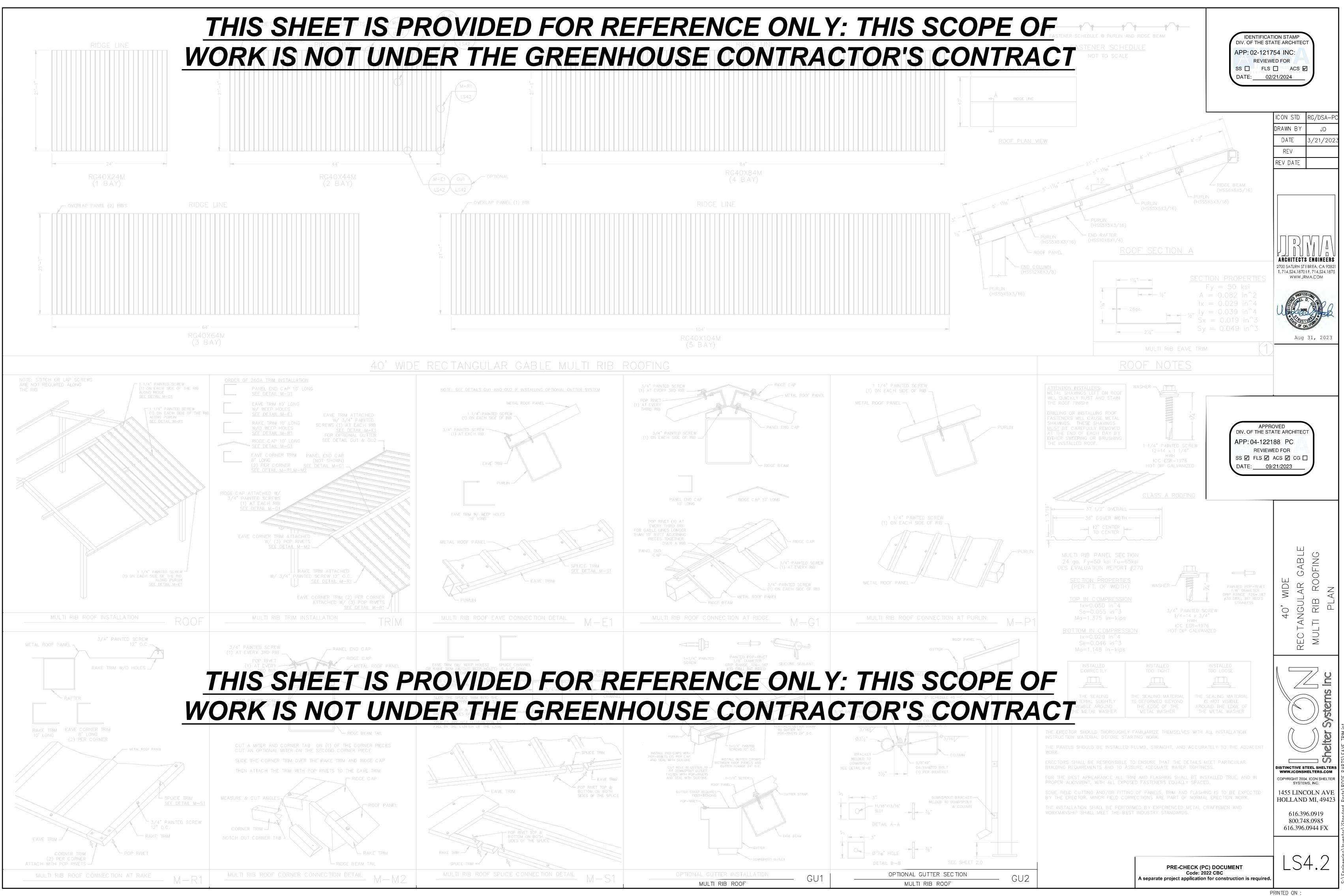
# ONLY: THIS SCOPE OF **NTRACTOR'S CONTRACT**

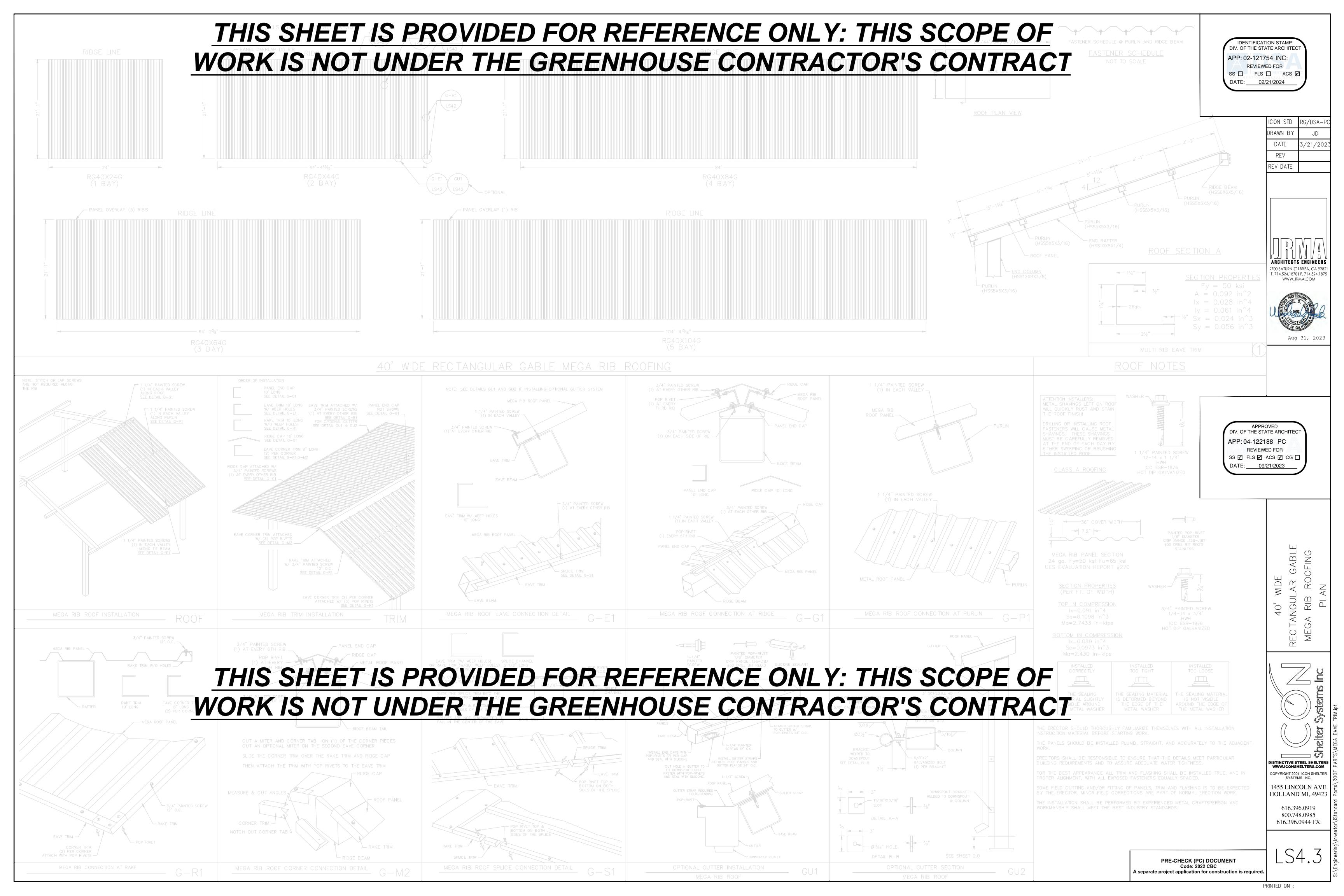


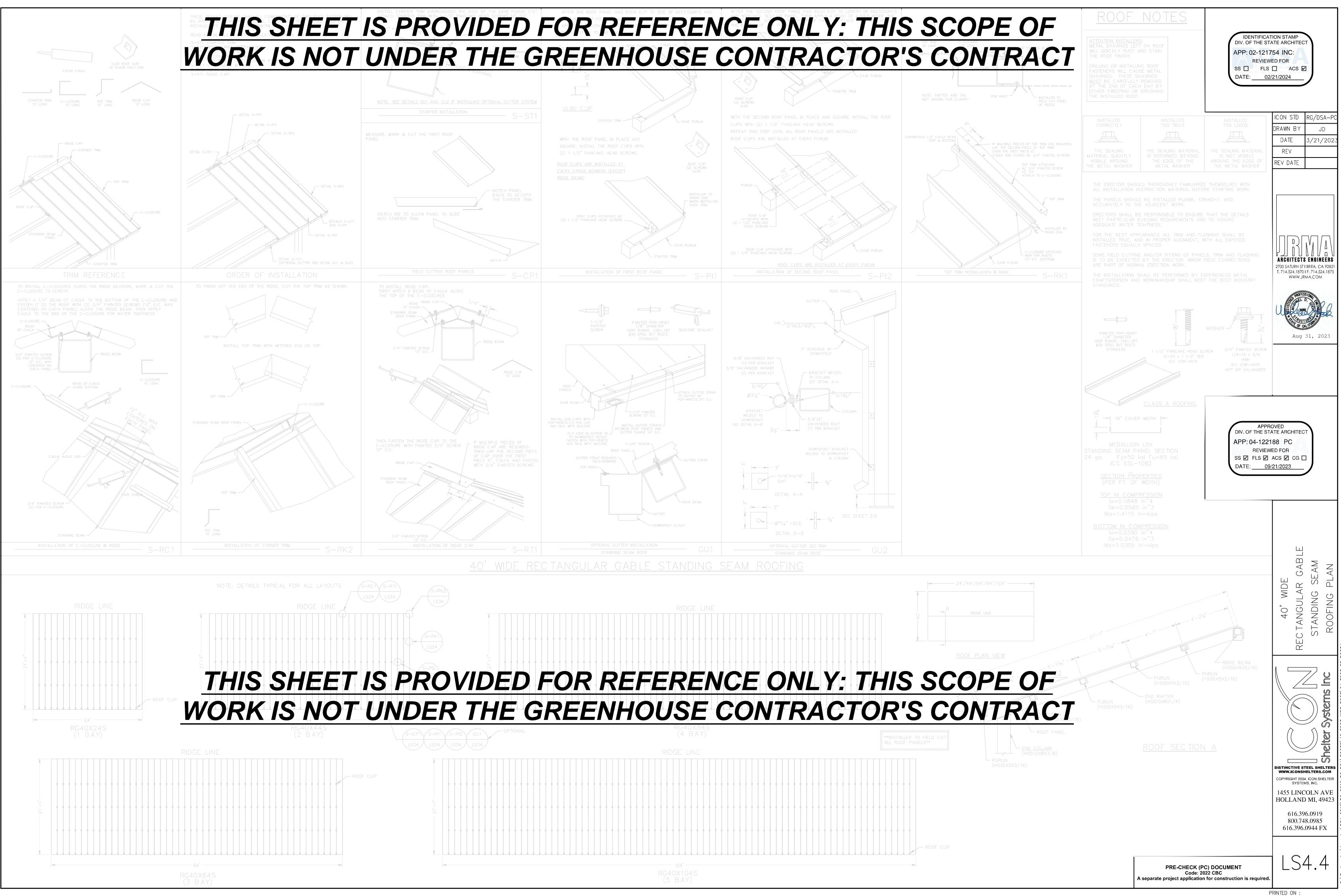


		T&B			<u> </u>	T&B			<u> </u>	T&B	
Size (A)	Depth	Rebar	Rebar	Size (A)	Depth	Rebar	Rebar	Size (A)	Depth	Rebar	Rebar
(in)	(in)	Qty	Size	(in)	(in)	Qty	Size	(in)	(in)	Qty	Size
90	30	12	6	90	30	12	6	90	30	12	6
	12' Side C	olumns			12' Side C	olumns		12' Side Columns			
Soil Class 5 - 1500 psf Bearing				Soil	Class 4 - 200	)0 psfBea	ring	Soil Class 3 - 3000 psf Bearing			
		T&B				T&B				T&B	
Size (A)	Depth	Rebar	Rebar	Size (A)	Depth	Rebar	Rebar	Size (A)	Depth	Rebar	Rebar
(in)	(in)	Qty	Size	(in)	(in)	Qty	Size	(in)	(in)	Qty	Size
144	30	18	6	144	30	18	6	114	30	14	6
1500 psf 12' Eave [ ]			200	0 psf 12' E	Eave [	]	300	00 psf 12'	Eave [	]	









ineering\Inventor\DSA 2019\PC 2019 RC DSA\ROOFS\40 FOOT WIDE ROOF\24

# THIS SHEET IS PROVIDED FOR REFERENCE ONLY: THIS SCOPE OF WORK IS NOT UNDER THE GREENHOUSE CONTRACTOR'S CONTRACT

THE CONDUIT PATHWAY RUNS THROUGH THE IF YOU HAVE SPECIAL ELECTRICAL REQUIREMENTS, PLEASE OUTLINE ANY CHANGES BELOW AS DESCRIBED.

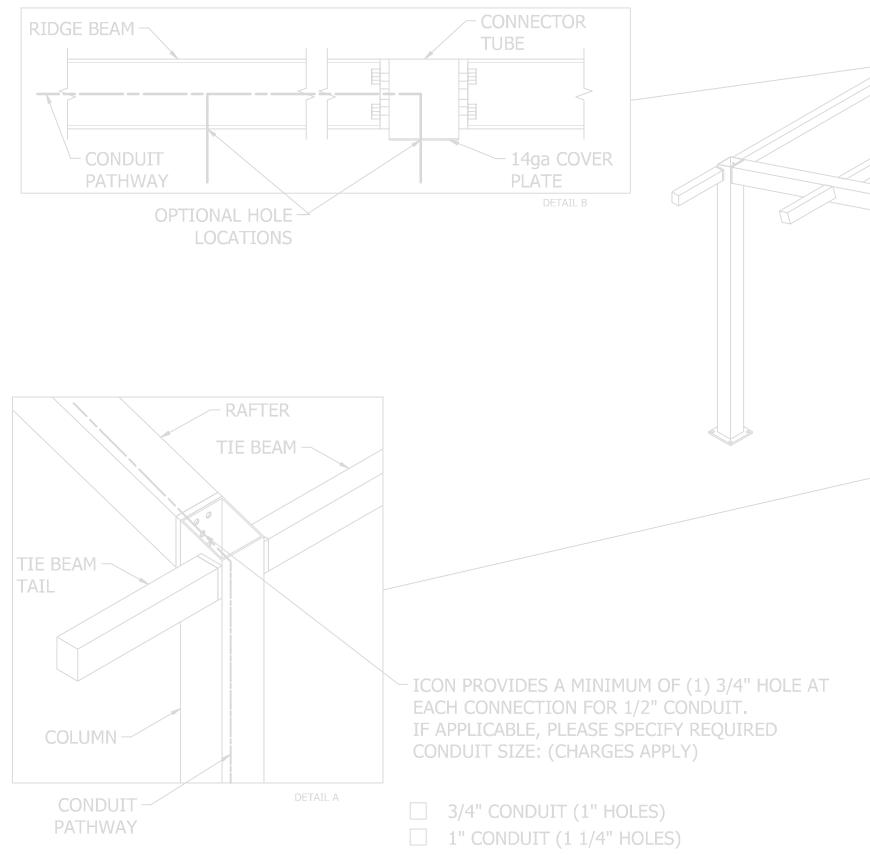
PLEASE NOTE: DESIGN LIMITATIONS ON HOLE/CUTOUT SIZES MAY APPLY. ICON WILL REACH OUT TO DISCUSS ANY SUCH LIMITATIONS AS NEEDED.

NOTE: ICON SHELTER FRAME IS NOT UL LISTED TO ACT AS A CONDUIT FOR ELECTRICAL WIRING, CONSULT LOCAL BUILDING CODES WHEN PLANNING YOUR ELECTRICAL SYSTEM.

**OPTIONAL EXIT HOLES** 

IF REOUIRED. EXIT HOLES FOR LIGHTING, ETC. CAN BE USE FRAME SHEET OF THIS PRELIMINARY TO SPECIFY



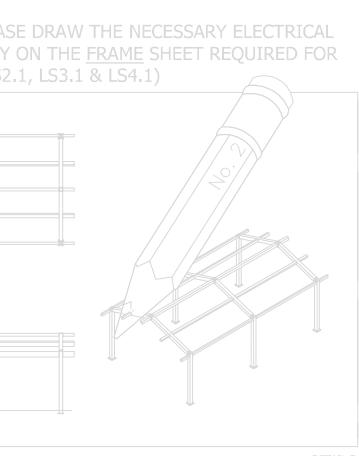


NOTE: BUILDING DEPICTED ON THIS SHEET FOR ILLUSTRATION VARY BY DESIGN. PLEASE REFER TO <u>ELEVATION</u> AND FRAME SHEETS STEPS:

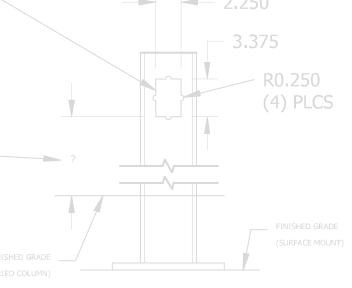
- **1. CONDUIT HOLE SIZE (DETAIL A)**
- 2. ELECTRICAL EXIT HOLES (DETAIL B)

□ IF REQUIRED, PLEASE DRAW THE NECESSARY ELECTRICAL CONDUIT PATHWAY ON THE FRAME SHEET REQUIRED FOR BUILDING SIZE (LS2.1, LS3.1 & LS4.1) **OPTIONAL CUTOUTS** - 2.250 (4) PLCS CONDUIT PATHWAY PROVIDED FOR EACH - COLUMN THIS SHEET IS PROVIDED FOR REFERENCE ONLY: THIS SCOPE OF WORK IS NOT UNDER THE GREENHOUSE CONTRACTOR'S CONTRACT EACH COLUMN BASE PLATE & STRAP **POP-RIVET COVER PLATE (STAINLESS POP RIVET)** 

**3. ELECTRICAL ACCESS & COVER PLATES (DETAIL C)** 4. ELECTRICAL CONDUIT PATHWAY (DETAIL D)









HOW MANY REQUIRED?

