

Alamo Colleges

WFAC Black Box Addition PKG 1

1801 Martin Luther King Dr.,
San Antonio, TX, 78203

ISSUE FOR CONSTRUCTION

2024/06/14



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SHEET NUMBER	SHEET NAME
G-000	ARCHITECTURAL GENERAL
G-001	COVER SHEET
G-002	GENERAL PROJECT INFORMATION
G-021	TEXAS ACCESSIBILITY STANDARDS
CIVIL	
C100	NOTES
C200	SITE PLAN
C201	SITE FIRE PLAN
C202	DIMENSION CONTROL & PAVING PLAN
C300	EXISTING CONDITIONS & DEMO PLAN
C400	GRADING PLAN
C401	CRAWLSPACE
C500	PRE DRAINAGE AREA MAP
C501	POST DRAINAGE AREA MAP
O600	OVERALL UTILITY
O700	ELEC. & COMMS PLAN & PROFILES
C800	STORM PLAN
C801	STORM PROFILES
C900	SANITARY PLAN & PROFILES
C1000	WATER PLAN & PROFILES
C1100	EROSION CONTROL
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STRUCTURAL	
S-101	NOTES, SECTIONS & DETAILS
S-102	SPECIAL INFECTION NOTES
S-201	FOUNDATION FRAMING PLAN
S-301	SECTIONS & DETAILS & MECH. YARD FOUNDATION
S-302	SECTION
S-303	SECTION
S-304	SECTION
S-305	SECTION
S-306	SECTION
S-307	SECTIONS
S-308	SECTIONS
S-309	SECTIONS
S-401	CONC. BEAM SCHED. & NOTES
S-402	CONC. JOIST SCHED. NOTES & DETAILS
ARCHITECTURAL SITE DEMOLITION	
ASD101	DEMOLITION ARCHITECTURAL SITE PLAN
ARCHITECTURAL SITE	
AS100	ARCHITECTURAL SITE PLAN
AS401	ARCHITECTURAL ENLARGED SITE PLANS
ARCHITECTURAL	
A-100	CRAWLSPACE FLOOR PLAN - COMPOSITE
A-411	DOOR SCHEDULE PANEL AND FRAME TYPES
MECHANICAL	
MPS-101	MECHANICAL AND PLUMBING SITE PLAN
ELECTRICAL	
E05-101	DEMO SITE POWER PLAN
E101	ELECTRICAL ONE LINE DIAGRAM
E-502	ELECTRICAL RISER DIAGRAM
E-601	ELECTRICAL SYMBOL LEGEND AND CONTRACTOR SCHEDULE
E-602	ELECTRICAL DETAILS
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PLUMBING	
P-000	SYMBOLS AND ABBREVIATIONS
PL-101-A	CRAWLSPACE PLUMBING PLAN
P-601	PLUMBING DETAILS
P-602	PLUMBING DETAILS
TECHNOLOGY	
T-001	TECHNOLOGY SYSTEM NOTES AND LEGENDS
TS-101	SITE TECHNOLOGY PLAN

ADD ALTERNATES

- PROVIDE SEPARATE PRICING TO REMOVE THE LOBBY ADDITION IN FRONT OF THE EXISTING WATSON THEATER ENTRANCE. THIS IS TO INCLUDE PIERS, FOUNDATION.
- MUD SLAB:
2A - PROVIDE SEPARATE PRICING TO REMOVE MUD SLAB DOWN TO A PATHWAYS FROM THE FLOOR HATCH TO THE PLUMBING DRAINS. REFER TO SHEET A-100.
2B - PROVIDE SEPARATE PRICING TO REMOVE THE MUD SLAB.

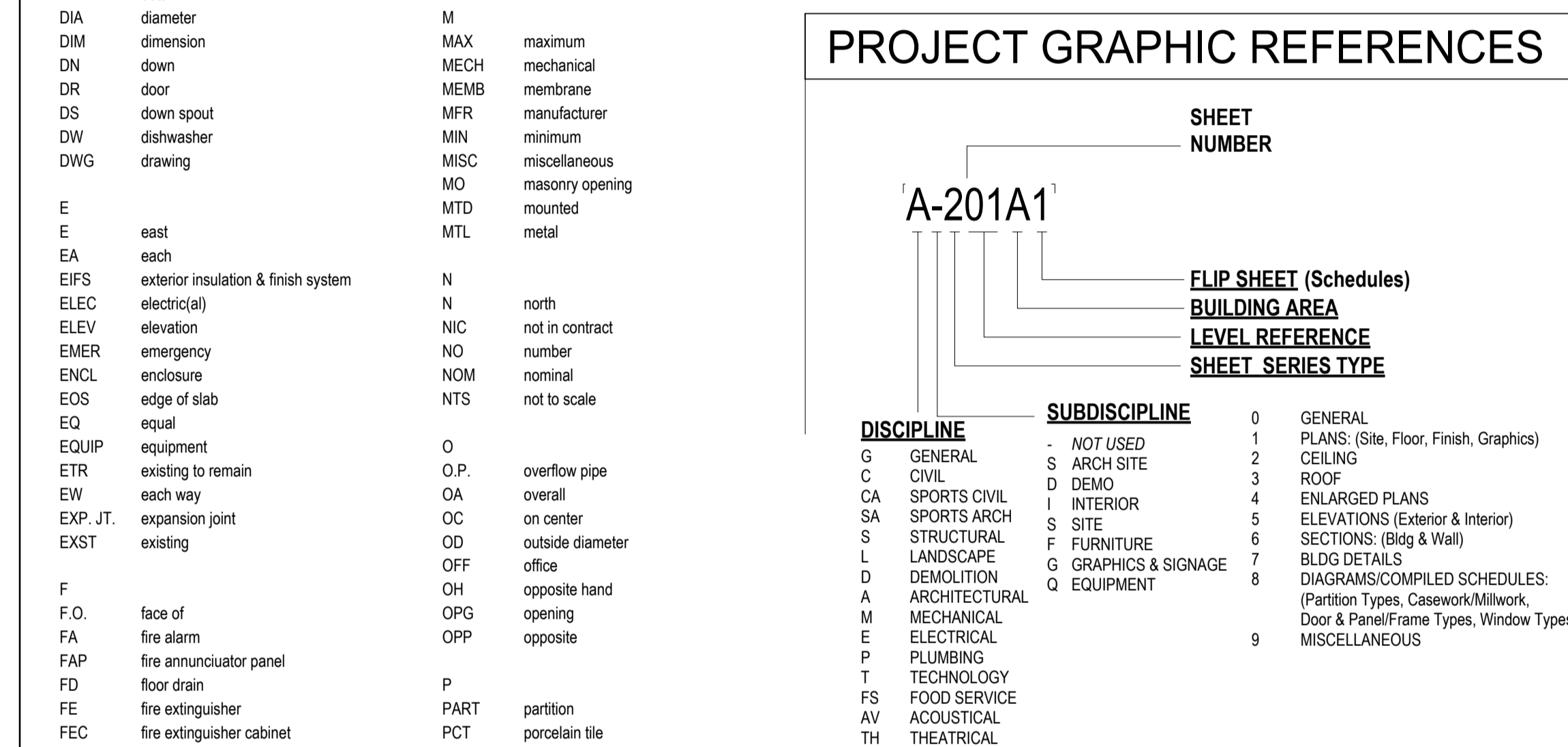
ABBREVIATIONS AND LEGEND KEYS

REFER TO SCHEDULES AND LEGENDS FOR ADDITIONAL ABBREVIATIONS REFER TO OTHER DISCIPLINES FOR ADDITIONAL ABBREVIATIONS

A	above	FG	finish group	PERM	perimeter	T	tread
ABV	above	FHC	fire hydrant	PG	paint grade	TAG	torque & groove
ACOUS	acoustical	FH	fire hose cabinet	PLAM	plastic laminate	T.O.	top of
ACT	acoustical ceiling tile	FLR	floor	PLAS	plaster	TEL	telephone
ADJ	adjustable	FLR	floor	PLYWD	plywood	TER	terrazzo
ADJ	adjustable	FLUOR	fluorescent	POLYISO	polyisocyanurate	THK	thick
AFF	above finished floor	FT	foot or feet	PR	pair	THR	threshold
ALT	alternate	FUR	furring	PTD	painted	TYP	typical
ALUM	aluminum	G	gallon	R	riser	U	undercut
APPROX	approximate	GAL	gallon	R	riser	UNFN	unfinished
ARCH	architect / architectural	GALV	galvanized	RCP	reflected ceiling plan	UNO	unless noted otherwise
B	bottom of	GB	grab bar	RD	roof drain	UON	unless otherwise noted
BALC	balcony	GC	general contractor	RE	refer	UTIL	utility
BD	board	GL	glass	REF	refrigerator	V	vertical composition tile
BET	between	GND	ground	REIN	reinforced	VCT	vinyl composition tile
BLDG	building	GYP	gypsum wall board	REQD	required	VERT	vertical
BLKG	blocking	H	hole	RESL	resilient	VF	verify in field
BLW	below	H.W.H.	hot water heater	RM	room	VTR	vent termination pipe
BM	beam	HW	handicapped	RO	rough opening	VWC	vinyl wall covering
BOT	bottom	HCW	hardwood	RTU	room top unit (mech)	S	south
BRKT	bracket	HDR	hardwood	S	south	SAFB	sound attenuation fiber batt
BULKHD	bulkhead	HDM	hardware	SC	scupper	SC	scupper
BUR	built up roof	HMR	hollow metal	SCHED	schedule	W/O	without
C	corner guard	HRZ	horizontal	SECT	section	WC	water closet
C.G.	corner guard	HT	hour	SECT	section	WIN	window
CAB	cabinet	HR	hour	SF	square foot	WP	waterproof
CAK	caulking	HT	hour	SHT	sheet	WS	wetstack
CEM	cement	HT	hour	SHT	sheet	WSTC	wainscot
CER	ceramic	INCAN	incandescent	SIM	similar	WT	weight
CJ	control joint	INSUL	insulation	SPEC	specification	XPS	extruded polystyrene
CLG	ceiling	INT	interior	SS	stainless steel		
CLS	ceiling	JAN	janitor	STD	standard		
CLR	clear	JST	joist	STL	steel		
CO	cased opening	JT	joint	STOR	storage		
COL	column	CONT	continuous	STRUC	structural		
CONC	concrete	CPT	carpet	SUSP	suspended		
CONT	continuous	CT	ceramic tile	SYM	symmetrical		
CPT	carpet	CTR	center				
CT	ceramic tile						
CTR	center						
D	double						
DBL	double						
DET	detail						
DIA	diameter						
DM	dimension						
DN	down						
DR	door						
DS	down spout						
DW	dishwasher						
DWG	drawing						
E	east						
EA	each						
EPFS	exterior insulation & finish system						
ELEC	electrical						
ELEV	elevation						
EMER	emergency						
ENCL	enclosure						
EOS	edge of slab						
EQ	equipment						
EQUIP	equipment						
ETR	existing to remain						
EW	each way						
EXP. JT.	expansion joint						
EXST	existing						
F	face of						
F.O.	face of						
FA	fire alarm						
FAP	fire annunciator panel						
FDP	floor drain						
FE	fire extinguisher						
FEC	fire extinguisher cabinet						

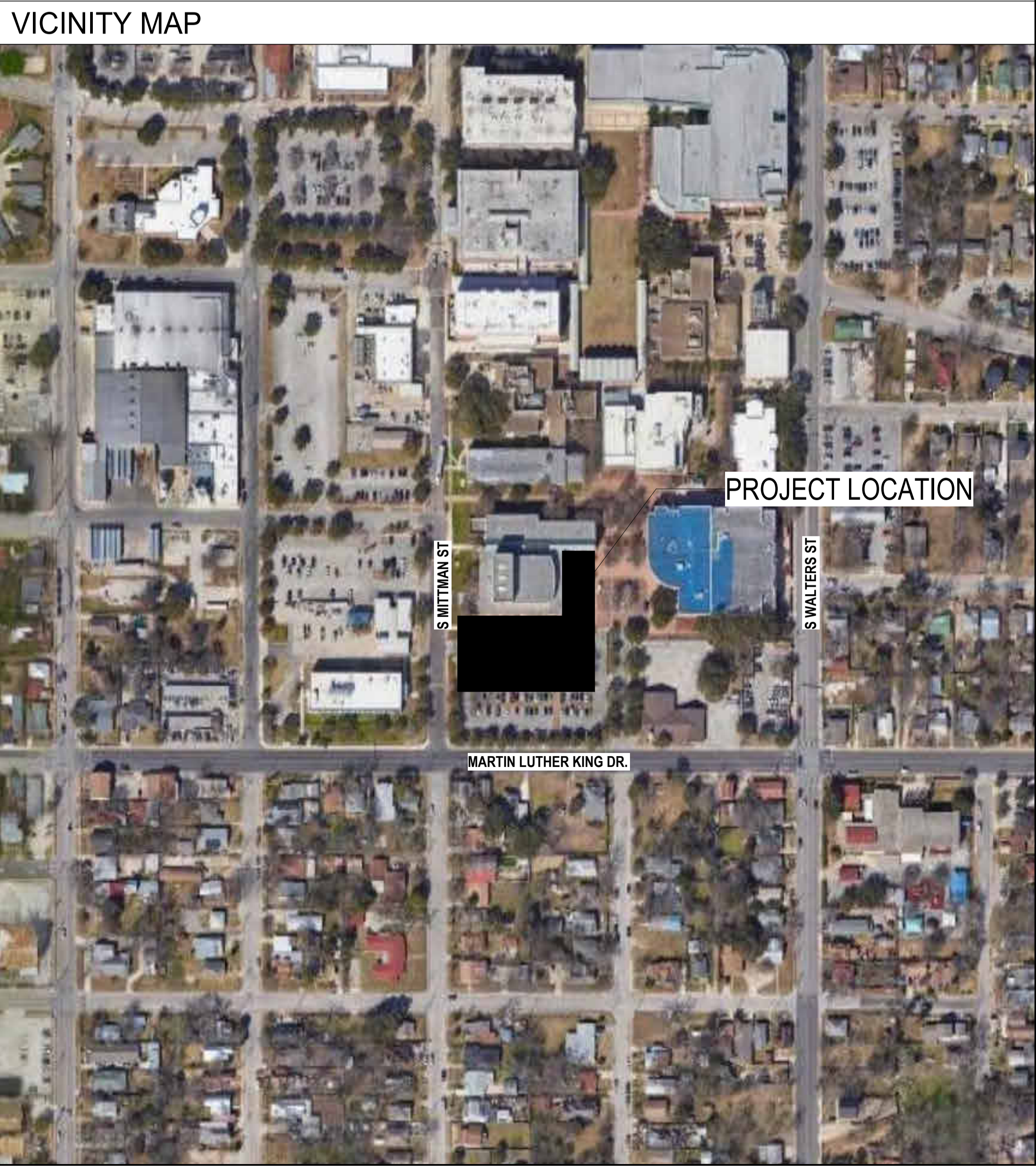
GENERAL NOTES

- THE CONTRACT DOCUMENTS ARE TO INCLUDE AIA DOCUMENT A201 "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION". CLIENT SHALL BE DESIGNATED AS "THE OWNER". PBK ARCHITECTS, INC. SHALL BE DESIGNATED AS "THE ARCHITECT". FACILITY SHALL BE DESIGNATED AS "THE LANDLORD". THE CONTRACT DOCUMENT SHALL ALSO INCLUDE THE AGREEMENT, PERFORMANCE AND PAYMENT BONDS, GENERAL CONDITIONS, SUPPLEMENTARY CONDITIONS, THE SPECIFICATIONS, CONTRACT DRAWINGS ADDENDA, AND CONTRACT MODIFICATIONS, BUILDING RULES AND REGULATIONS & ANY OTHER DOCUMENTS REQUIRED BY THE OWNER.
- THE WORK SHALL BE DONE IN ACCORDANCE WITH THE RULES AND REGULATIONS OF ALL APPLICABLE SAFETY AND BUILDING CODES, AND AS APPROVED BY THE AUTHORITY HAVING JURISDICTION. CONTRACTOR IS RESPONSIBLE FOR SECURING AND PAYING FOR ALL PERMITS REQUIRED FOR THE WORK AND FOR THE SCHEDULING OF ALL REQUIRED INSPECTIONS DURING THE COURSE OF THE WORK.
- CONTRACTOR SHALL REVIEW AND VERIFY EXISTING CONDITIONS AS PROVIDED IN THE CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ALL DISCREPANCIES, ERRORS, INCONSISTENCIES OR AMBIGUITIES PRIOR TO PROCEEDING WITH THE WORK.
- CONTRACTOR SHALL BE RESPONSIBLE FOR, AND PROVIDE PROTECTION OF, ANY EXISTING FINISHES, MATERIALS, AND EQUIPMENT TO REMAIN. CONTRACTOR SHALL REPAIR OR REPLACE ANY DAMAGED FINISHES, MATERIALS, AND EQUIPMENT AS A RESULT OF THE WORK. ALL EXISTING FINISHES TO REMAIN SHALL BE CLEANED AT THE COMPLETION OF CONSTRUCTION. CONTRACTOR SHALL PHOTOGRAPH AND DOCUMENT ALL EXISTING DAMAGES, AND PROVIDE TO THE ARCHITECT, PRIOR TO PROCEEDING WITH THE WORK.
- ALL MATERIALS AND SYSTEMS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. ALL CONSTRUCTION SHALL BE OF INDUSTRY STANDARD OR BETTER. THE ARCHITECT SHALL BE FINAL JUDGE OF QUALITY.
- ONLY NEW MATERIALS AND EQUIPMENT OF RECENT MANUFACTURE, OF STANDARD QUALITY, AND FREE FROM DEFECTS, WILL BE PERMITTED IN THE WORK, UNLESS OTHERWISE NOTED. REJECTED MATERIALS AND EQUIPMENT SHALL BE REMOVED IMMEDIATELY FROM THE WORK AND RE-ORDERED WITH MATERIALS AND EQUIPMENT OF THE QUALITY SPECIFIED. FAILURE TO REMOVE REJECTED MATERIALS AND EQUIPMENT SHALL NOT RELIEVE CONTRACTOR FROM THE RESPONSIBILITY FOR QUALITY OF MATERIAL AND EQUIPMENT USED NOR FROM ANY OTHER OBLIGATION IMPOSED BY THE CONTRACT.
- DO NOT SCALE DRAWINGS. STATED & WRITTEN DIMENSIONS GOVERN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND SHALL BE RESPONSIBLE FOR THEIR ACCURACY. NO EXTRA CHARGE OR COMPENSATION SHALL BE ALLOWED BECAUSE OF DIFFERENCE BETWEEN ACTUAL DIMENSIONS AND THOSE INDICATED ON THE DRAWINGS, UNLESS THEY CONTRIBUTE TO A CHANGE IN THE SCOPE OF THE WORK. ANY DIFFERENCE FOUND SHALL BE SUBMITTED TO THE ARCHITECT FOR COORDINATION PRIOR TO ORDERING, MANUFACTURING, OR PROCEEDING WITH THE WORK. HORIZONTAL DIMENSIONS INDICATED ARE TO/FROM FACE OF FINISH, UNLESS NOTED OTHERWISE. VERTICAL DIMENSIONS ARE FROM TOP OF FLOOR SLAB EXCEPT WHERE NOTED TO BE ABOVE FINISHED FLOOR (AFF). DIMENSIONS ARE NOT ADJUSTED WITHOUT APPROVAL OF ARCHITECT UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL VERIFY THAT NO CONFLICTS EXIST BETWEEN THE LOCATIONS OF EXISTING AND PROPOSED NEW MECHANICAL, ELECTRICAL, PLUMBING, DATA, AND SPRINKLER EQUIPMENT (INCLUDING BUT NOT LIMITED TO STRUCTURAL MEMBERS, PIPING, DUCT WORK, CONDUIT AND SPRINKLERS) AND THAT CLEARANCES FOR INSTALLATION AND MAINTENANCE OF EQUIPMENT ARE PROVIDED. ELEMENTS IN CONFLICT SHALL BE DOCUMENTED AND PROVIDED TO THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
- CONTRACTOR SHALL PROVIDE THE ARCHITECT WITH SHOP DRAWINGS FOR REVIEW AND APPROVAL FOR ALL, BUT NOT LIMITED TO, THE FOLLOWING: SHOP-FABRICATED MILLWORK, CARPET LAYOUT, FLOORING, LIGHT FIXTURES, DOORS, MISC. STEEL, METAL FABRICATION, GLASS/GLAZING, SPRINKLER LAYOUTS, HARDWARE. SHOP DRAWINGS SHALL BE SUBMITTED IN THE FORM OF 3 SETS OF PRINTS. SHOP DRAWINGS SHALL NOT BE REPRODUCTIONS OF CONTRACT DOCUMENTS. MATERIAL SUBMITTALS (S/SAMPLES) SHALL BE PROVIDED FOR WOOD, FASTENERS, ACRYLIC, CARPET, TILE, BASE, PAINT, LAMINATE AND ANY OTHER MATERIALS INDICATED IN THE SHOP DRAWINGS.
- CONTRACTOR SHALL PROVIDE THE ARCHITECT WITH MANUFACTURER'S CUT SHEETS AND SPECIFICATIONS FOR ALL EQUIPMENT INCLUDING BUT NOT LIMITED TO LIGHT FIXTURES, PLUMBING EQUIPMENT, ELECTRICAL EQUIPMENT, FANS, SUPPLEMENTARY HEATING AND COOLING ELEMENTS, ALL HARDWARE AND SECURITY EQUIPMENT.
- CONTRACTOR SHALL NOT PROCEED WITH WORK FOR WHICH ADDITIONAL COMPENSATION BEYOND THE CONTRACT AMOUNT IS EXPECTED WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT AND OWNER. FAILURE TO OBTAIN SUCH AUTHORIZATION SHALL INVALIDATE A CLAIM FOR EXTRA COMPENSATION. CONTRACTOR SHALL NOT PROCEED WITH WORK WHICH, IF COMPLETED, IS STRICT CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS, WILL RESULT IN ADDITIONAL WORK BEYOND THE SCOPE OF THE CONTRACT WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT AND OWNER. ANY FIELD CONDITIONS THAT SIGNIFICANTLY VARY FROM THE CONTRACT DOCUMENTS OR WILL RESULT IN ADDITIONAL WORK, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
- PATCH, REPAIR, AND INSTALL ALL FIREPROOFINGS AS REQUIRED BY CODE. FIREPROOF ALL NEW PENETRATIONS AS REQUIRED FOR APPROVAL BY THE AUTHORITY HAVING JURISDICTION.
- WHERE BUILDING THERMAL EXPANSION JOINTS ARE REQUIRED, CONTRACTOR SHALL COMPLY WITH APPLICABLE CODE AND INDUSTRY BEST PRACTICES FOR ROUTING OF ALL PIPING, DUCTS, CONDUITS AND OTHER CONTINUOUS RUNS.
- CONTRACTOR SHALL CONTINUOUSLY CHECK ARCHITECTURAL AND STRUCTURAL CLEARANCES FOR ACCESSIBILITY OF EQUIPMENT AND MECHANICAL AND ELECTRICAL SYSTEMS. NO ALLOWANCES OF ANY KIND WILL BE MADE FOR THE GENERAL CONTRACTOR'S NEGLIGENCE TO FORESEE MEANS OF INSTALLING EQUIPMENT INTO POSITION.
- FINISHED WORK SHALL BE FIRM, WELL-ANCHORED, IN TRUE ALIGNMENT, PLUMB, LEVEL, WITH SMOOTH, CLEAN, UNIFORM APPEARANCE WITHOUT WAVES, DISTORTIONS, HOLES, MARKS, CRACKS, STAINS, OR DISCOLORATION. JOINTING SHALL BE CLOSE FITTING, NEAT AND WELL SCURED. FINISHED WORK SHALL HAVE NO EXPOSED UNSIGHTLY ANCHORS OR FASTENERS AND SHALL NOT PRESENT HAZARDOUS, UNSAFE CORNERS. ALL WORK SHALL HAVE THE PROVISION FOR EXPANSION, CONTRACTION AND SHRINKAGE AS NECESSARY TO PREVENT CRACKS, BUCKLING, AND WARPING DUE TO TEMPERATURE AND HUMIDITY CONDITIONS.
- ATTACHMENTS, CONNECTIONS OR FASTENERS OF ANY NATURE ARE TO PROPERLY AND PERMANENTLY BE SECURED IN CONFORMANCE WITH INDUSTRY BEST PRACTICES. THE DRAWINGS HIGHLIGHT SPECIAL CONDITIONS ONLY AND BY NO MEANS ILLUSTRATE EVERY CONNECTION. THE CONTRACTOR IS RESPONSIBLE FOR IMPROVING CONNECTION ACCORDINGLY.
- CONTRACTOR SHALL WAIVE "COMMON PRACTICE" AND "COMMON USAGE" AS CONSTRUCTION CRITERIA WHEREVER DETAILS AND CONTRACT DOCUMENTS OR GOVERNING CODES, ORDINANCES, ETC. REQUIRE QUANTITY OR BETTER QUALITY THAN COMMON PRACTICE OR COMMON USAGE WOULD REQUIRE.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND SUBMITTALS AND SHALL ORDER AND SCHEDULE DELIVERY OF MATERIALS TO AVOID DELAYS IN CONSTRUCTION. IF AN ITEM IS FOUND TO BE UNAVAILABLE OR TO HAVE A LONG LEAD TIME, THE GENERAL CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY WITH A PROPOSED ALTERNATIVE.
- CONTRACTOR SHALL NOTIFY THE OWNER, THE LANDLORD, AND THE ARCHITECT IN WRITING OF ANY DEFICIENCIES IN BASE BUILDING WORK PRIOR TO THE COMMENCEMENT OF THE WORK. ANY UNREPORTED DEFICIENCIES WILL BECOME THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO CORRECT.
- CONTRACTOR SHALL EXERCISE INDUSTRY BEST PRACTICES FOR CARE AND CAUTION DURING THE CONSTRUCTION OF THE WORK, AND SHALL SCHEDULE WORK TO MINIMIZE DISTURBANCES TO OCCUPANTS. ADJACENT SPACES AND/OR STRUCTURES, PROPERTY, PUBLIC THOROUGHFARES, ETC. THE GENERAL CONTRACTOR SHALL TAKE PRECAUTIONS AND BE RESPONSIBLE FOR THE SAFETY OF ALL BUILDING OCCUPANTS DURING CONSTRUCTION PROCEDURES. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COSTS INCURRED.
- ALL DEBRIS SHALL BE REMOVED FROM THE SITE ON A DAILY BASIS, OR AS DIRECTED BY THE AUTHORITY HAVING JURISDICTION. UPON COMPLETION OF THE WORK, REMOVE ALL DEBRIS FROM THE WORK PROVIDED UNDER THIS CONTRACT AND LEAVE ALL AREAS CLEAN. TRASH IS NOT PERMITTED TO BE BURNED ON SITE.
- ALL ABANDONED AND MISCELLANEOUS NAILS, HANGERS, STAPLES, WIRES, CONDUITS AND DEBRIS SHALL BE REMOVED FROM EXPOSED AREAS OF THE FLOORS, WALLS, AND CEILINGS. REMOVE ALL ABANDONED PIPE SLEEVES IN FLOOR SLABS. PATCH EXISTING SLAB AS REQUIRED TO MAINTAIN UL FIRE RATING OF FLOOR SLAB WHERE PIPES AND CONDUITS HAVE BEEN REMOVED.
- SLAB PENETRATIONS SHALL BE SEALED AS REQUIRED TO MAINTAIN FIRE RATING. USING MATERIALS AND METHODS APPROVED BY THE AUTHORITY HAVING JURISDICTION. EXPANSION MATERIAL SHALL BE APPROVED BY THE ARCHITECT.
- CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY ACCESS PANELS WHICH MAY BE REQUIRED PRIOR TO PROCEEDING WITH THE WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL TRADES. REQUIRED ACCESS PANELS SHALL BE INCLUDED IN THE CONTRACTOR'S SCOPE OF WORK.
- CONTRACTOR SHALL PROVIDE THE TEAM WITH A CONSTRUCTION SCHEDULE SHOWING THE PROPOSED PHASING. LONG LEAD ITEMS THAT WILL AFFECT THE SUBSTANTIAL COMPLETION DATE SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION IMMEDIATELY.



PROJECT GRAPHIC REFERENCES

PROJECT SYMBOLS	PROJECT SYMBOLS	CONSTRUCTION TYPE SYMBOLS
PLAN NORTH NORTH ARROW	1 CEILING TYPE CEILING HEIGHT	EXISTING CONSTRUCTION TO REMAIN
TRUE NORTH NORTH ARROW	A COLUMN LINE REFERENCE	EXISTING CONSTRUCTION TO BE DEMOLISHED
WORKING POINT DATUM POINT SPOT ELEVATION TOP OF FRAMING/STEEL	1 EXISTING/NEW COLUMN LINE REFERENCE	NEW NON-RATED CONSTRUCTION
FIRE RATING TYPE CORE STRUCTURAL WIDTH TYPE COMPOSITION TYPE PARTITION TYPE TAG (RE: PARTITION SCHEDULE)	1/A101 DETAIL NUMBER SHEET NUMBER CALLOUT REFERENCE	CONCRETE
BLDG AREA LEVEL DOOR SEQUENCE (RE: DOOR SCHEDULE)	1 SIM EXTERIOR REFERENCE ELEVATION NUMBER SHEET NUMBER	BRICK
ROOM ROOM NAME (RE: ROOM FINISH SCHEDULE) ROOM SEQUENCE LEVEL BLDG AREA	1 SIM INTERIOR REFERENCE ELEVATION NUMBER SHEET NUMBER	CONC. MASONRY UNITS (CMU)
EXIT SIGN DIRECTION SYMBOL	10 SIM REFERENCE BUILDING SECTION REFERENCE DETAIL NUMBER SHEET NUMBER	RIGID INSULATION
RE: 01 / A-101/B MATCHLINE VIEW REFERENCE	10 SIM REFERENCE WALL SECTION REFERENCE DETAIL NUMBER SHEET NUMBER	BATT INSULATION
CW1 CURTAINWALL TAG STOREFRONT TAG	10 SIM REFERENCE CENTER LINE, & SYMBOL	ACOUSTICAL TILE / FABRIC PANEL
CD1 KEYNOTE TAG	10 SIM ABOVE LINE	GYPSSUM BOARD
101A WINDOW & LOUVER TAG	10 SIM BEYOND LINE	PLASTER ON METAL LATH
AB-1 MATERIAL TAG	10 SIM BREAK LINE	FINISH WOOD
RE REVISION TAG	10 SIM CAST STONE / SPRAY ON INSULATION / SAND / MORTAR	CONTINUOUS WOOD
101 308/4 CASEWORK TYPE (AWI SERIES) SIZE (WxD)	10 SIM STEEL	BLOCKYNG / SHIM
LOCK	10 SIM ALUMINUM	PLYWOOD
	10 SIM STONE	EARTH
	10 SIM GRAVEL	CAST STONE / SPRAY ON INSULATION / SAND / MORTAR
	10 SIM SEALANT	STEEL
	10 SIM ROD STOCK & SEALANT	ALUMINUM



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WFCAC Black Box Addition PKG 1

ALAMO COLLEGES
ST. PHILIP'S COLLEGE

KEY PLAN

NORTH PLAN TRUE

PROJECT LOCATION

CLIENT: Alamo Colleges
DATE: 2024/06/14 PROJECT NUMBER: 230462

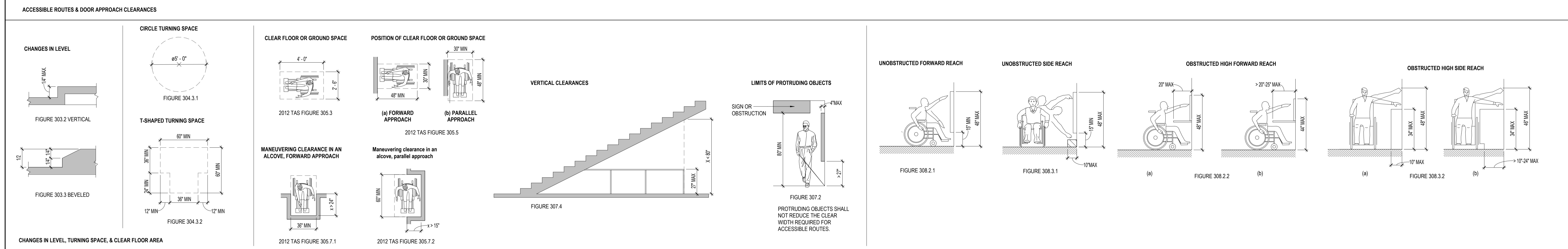
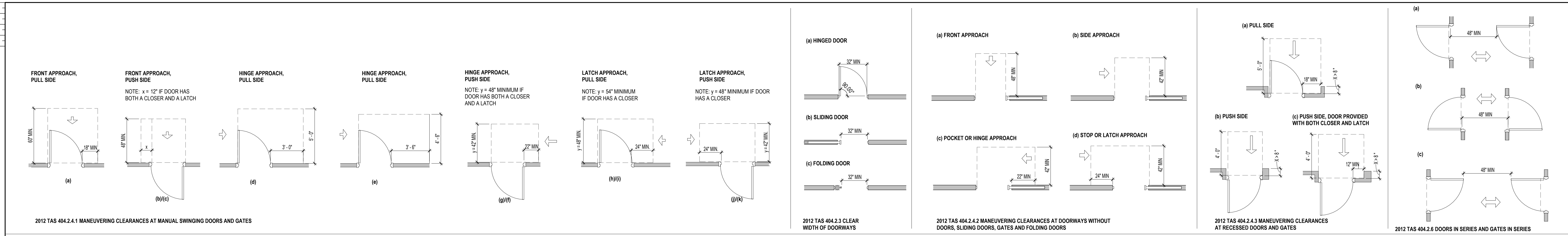
No.	Description	Date

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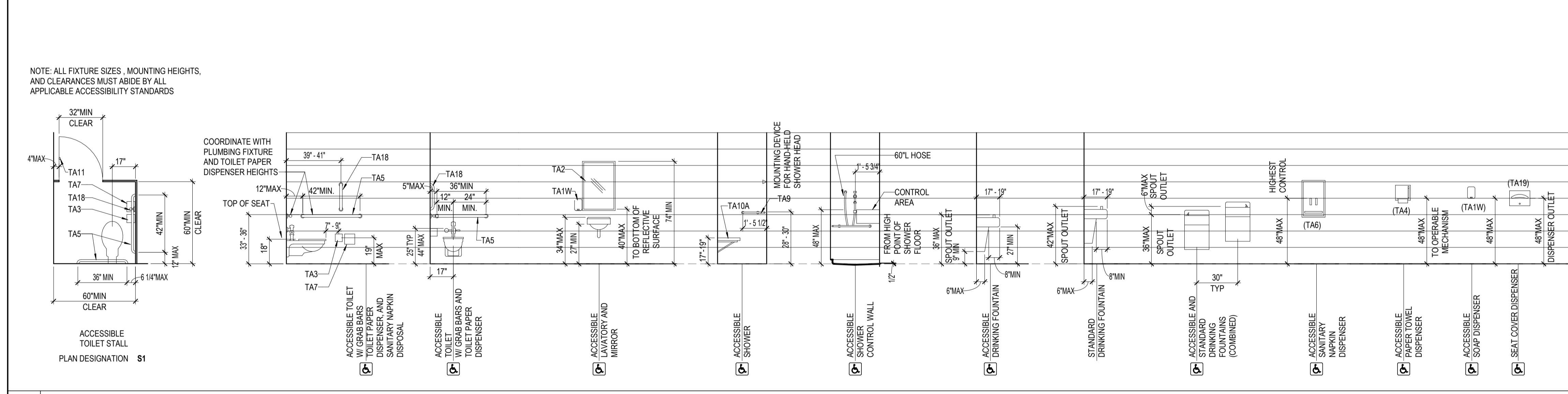
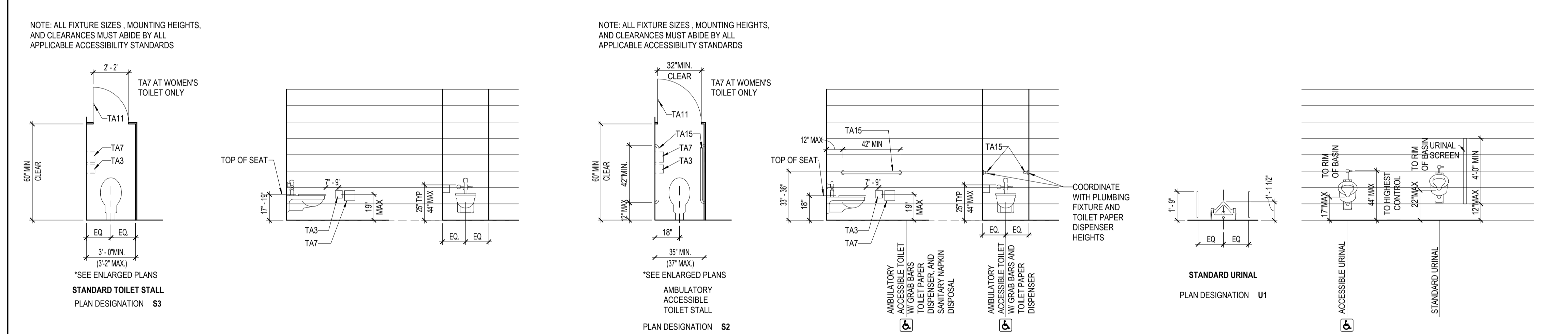
BUILDING NUMBER 1

GENERAL PROJECT INFORMATION

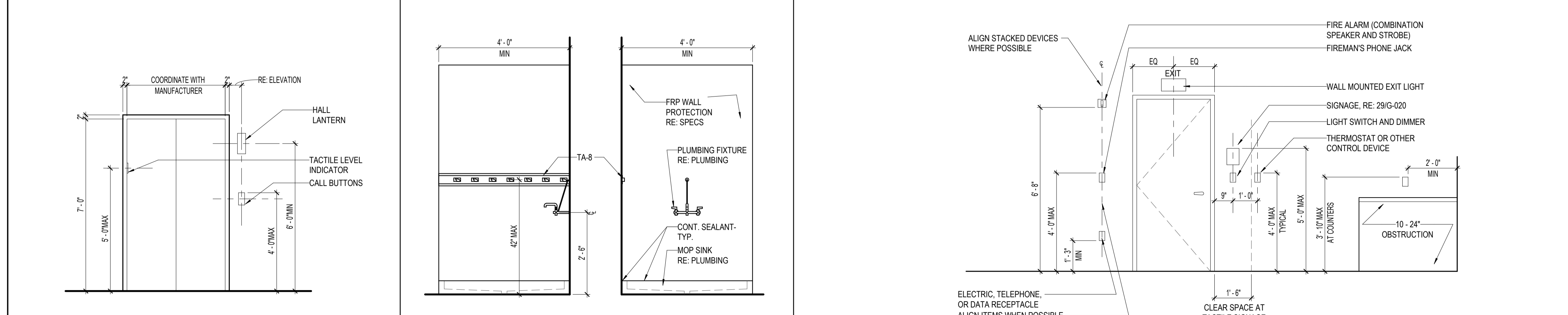
G-002



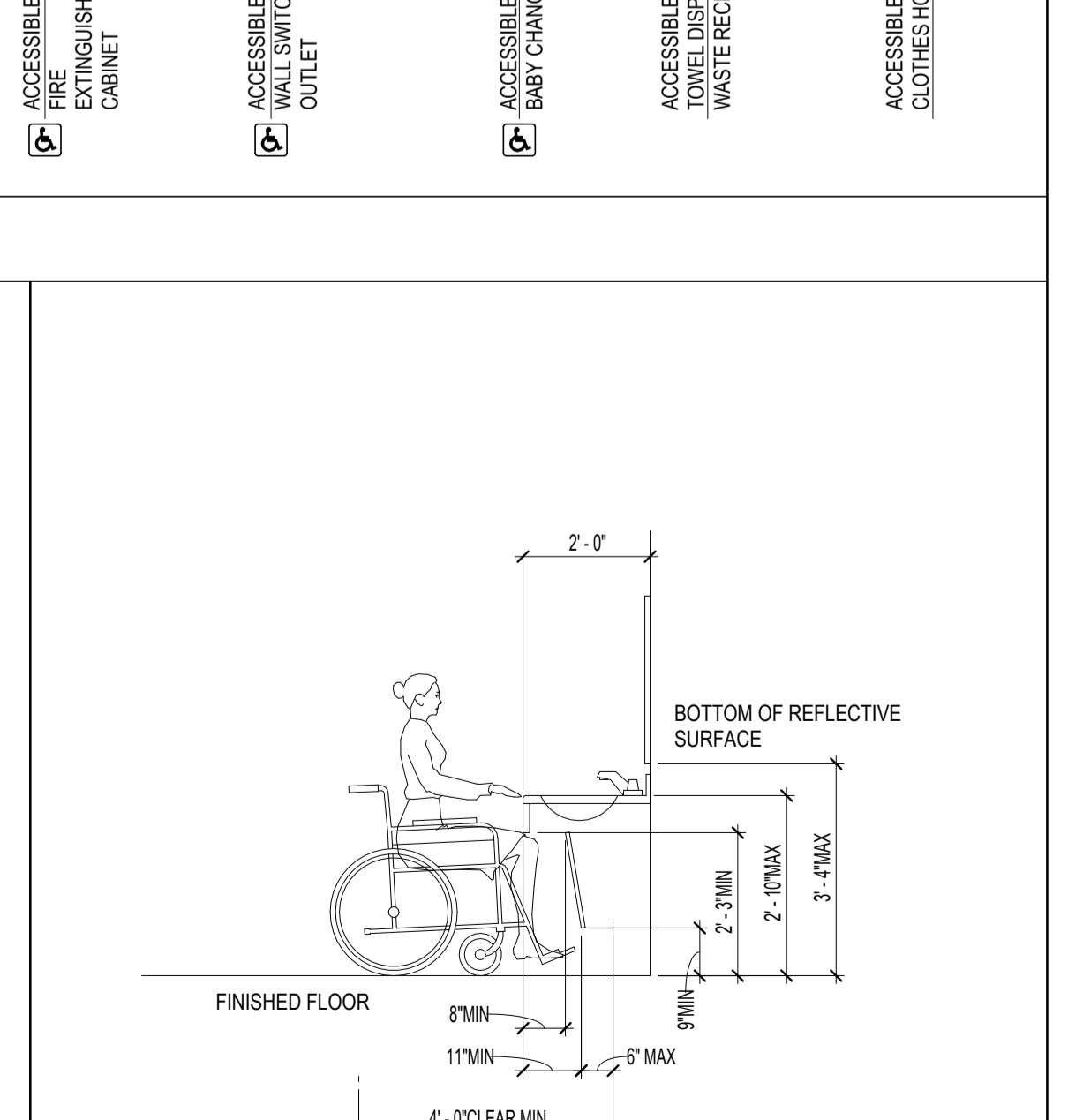
24 TEXAS ACCESSIBILITY STANDARDS
1/4" = 1'-0"



12 ACCESSIBILITY - AGES 13 THRU ADULT (GRADES 8 AND ABOVE)
1/4" = 1'-0"



02 ACCESSIBLE VANITY
3/8" = 1'-0"



01 ACCESSIBLE MOUNTING HEIGHTS
1/4" = 1'-0"

DESCRIPTION	AGES 13 - ADULT (GRADES 8 AND ABOVE)
WATER CLOSET: To Top of Seat	17" - 19"
Grab Bar Height	33" - 36"
Flush Control Height	25" TYP 44" MAX
URINAL: Max. To Rim of Basin	17"
Knee Clearance (Min)	44"
LAVATORIES: Front Approach	
Knee Clearance (Min)	27"
To Top (Max)	34"
To Faucet (Max)	29"
FIXED OR BUILT-IN:	
Height of Tables or Counter	28" - 34"
Knee Clearance (Min)	27"
SHELVES, DISPENSERS: Max. Height to Control Device	
Frontal Approach (Max)	48"
Side Approach (Max)	48"
DRINKING FOUNTAINS:	
To Spout (Max)	36"
Knee Clearance (Min)	27"
SWITCHES AND CONTROLS:	
Frontal Approach (Max)	48"
Side Approach (Max)	48"
MIRRORS: Max. Height to Bottom of Reflective Surface	
At Lavatories and Counter Tops	40"
Full Length	35"
MIRRORS: Min. Height to Top of Reflective Surface	
Full Length	74"
TOILET PAPER DISPENSER: Height to Center of Roll (Max)	19"
PAPER TOWEL DISPENSER: Height to Operating Mechanism	48"
SHOWER:	
Top of Seat	17" - 19"
Grab Bar	33" - 36"
To Hand Shower Head Mounting (Max)	48"

This document is for interim review only.

ARCHITECT PBK Architects, Inc.

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ISSUE FOR CONSTRUCTION

ALAMO COLLEGES
ST. PHILIP'S COLLEGE



No.	Description	Date

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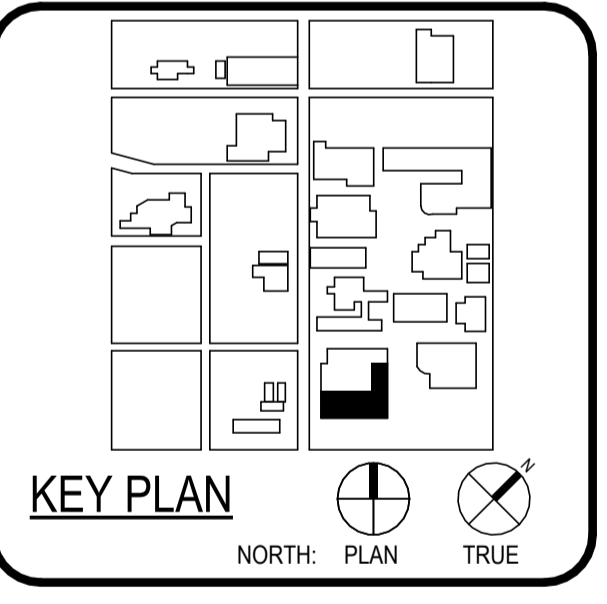


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1801 Marlin Luther King Dr.,
San Antonio, TX, 78203

ISSUE FOR CONSTRUCTION

ALAMO COLLEGES
ST. PHILIP'S COLLEGE



No.	Description	Date

ISSUE FOR CONSTRUCTION
BUILDING NUMBER 1

This document is for interim review only.

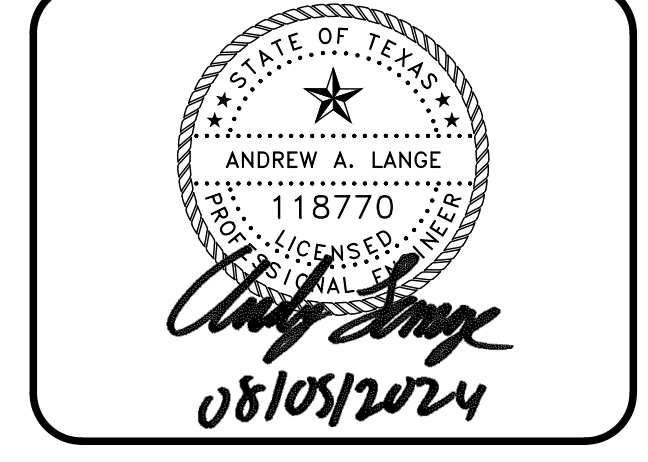
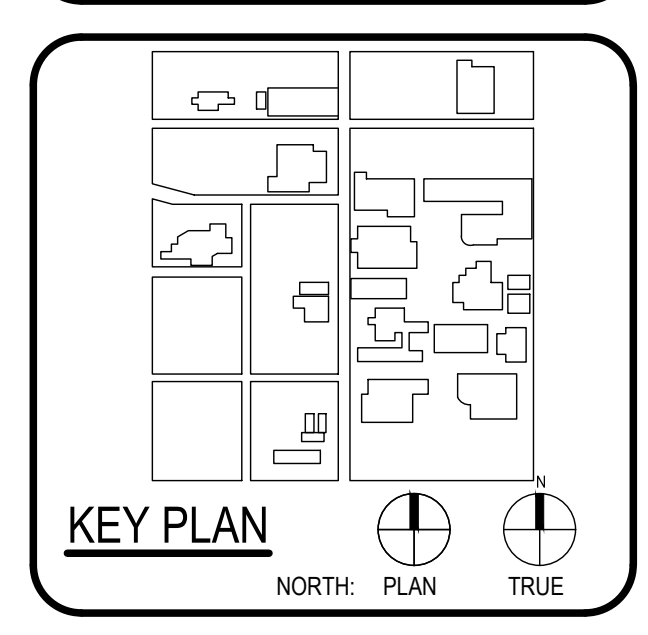
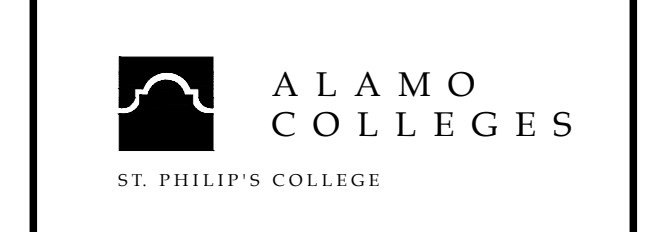
Sheet Grids Template
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 FOR BLUEBAM LABELING.COR.

ISSUE FOR PERMIT



ARCHITECT PBK Architects, Inc.
 SAN ANTONIO
 601 N.W. Loop 410, Suite 400
 San Antonio, TX 78216
 210-820-0123 P
 210-829-0578 F
 TX Firm BR 1608

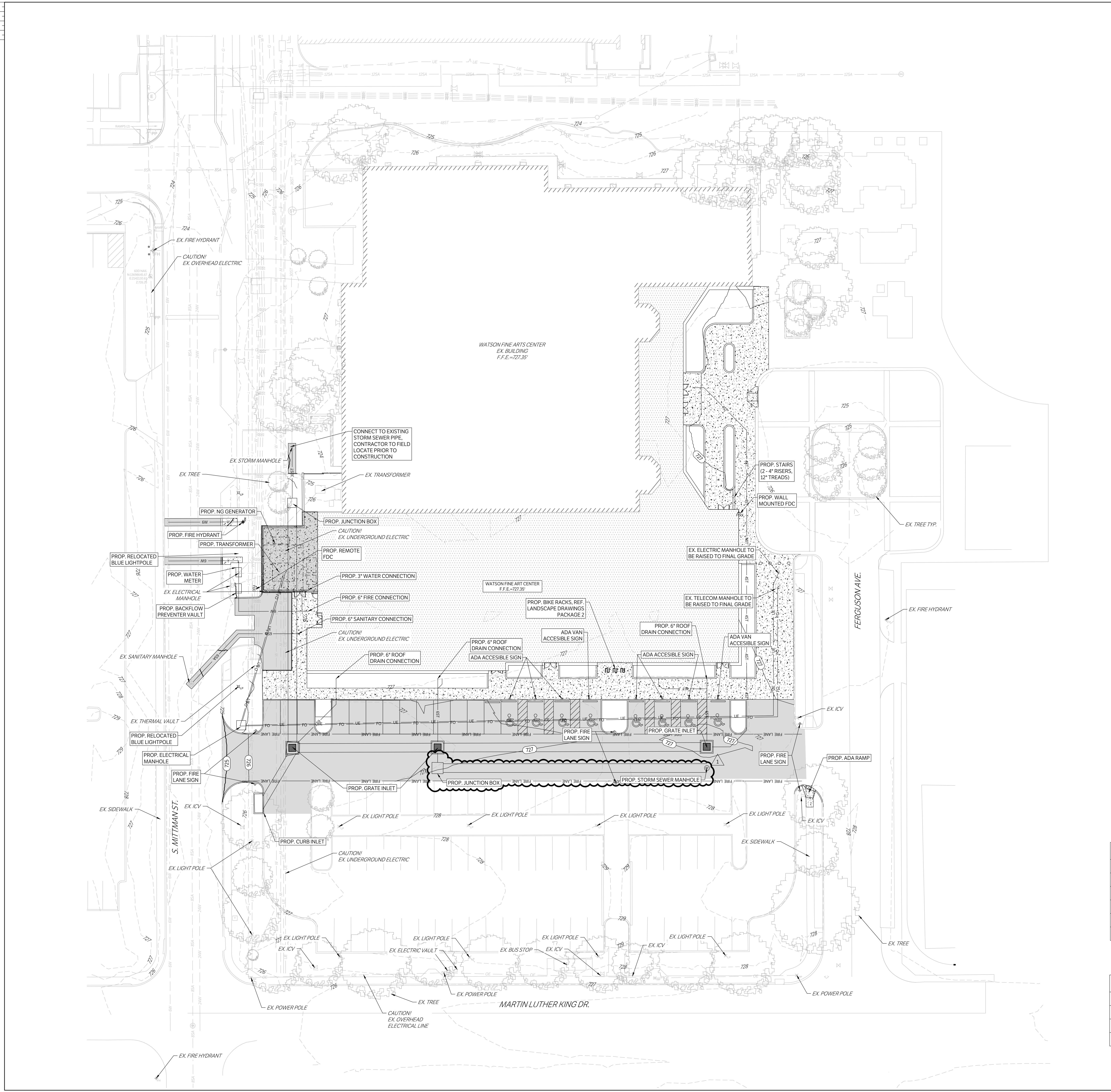
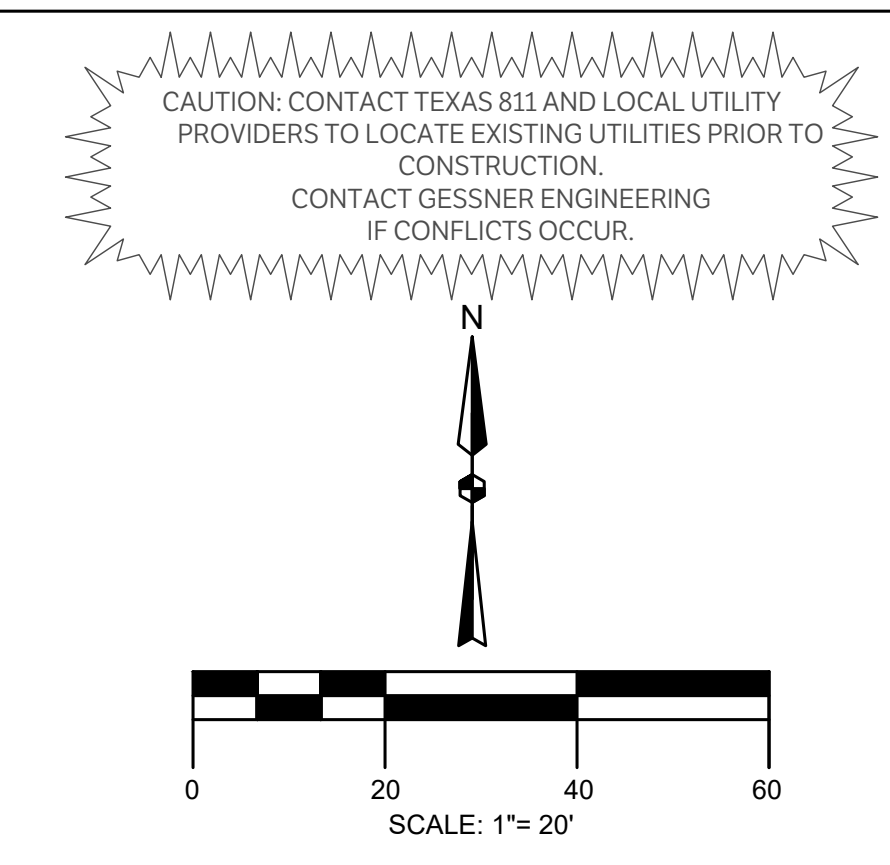
WFAC Black Box Addition PKG 1
 600 S Milgram St.
 San Antonio, TX 78203
 ISSUE FOR PERMIT



CLIENT		Alamo Colleges
DATE	2024/06/12	PROJECT NUMBER
		230462
DRAWING HISTORY		
No.	Description	Date
1	ADDENDUM 1	08/05/2024

ISSUE FOR PERMIT
 BUILDING NUMBER
SITE PLAN

C200



LEGEND

[Symbol]	PROPOSED ASPHALT PAVEMENT
[Symbol]	PROPOSED STRUCTURAL PAVEMENT REF. STRUCTURAL
[Symbol]	PROPOSED 4" CONCRETE SIDEWALK
[Symbol]	PROPOSED BUILDING
[Symbol]	EXISTING PAVEMENT EDGE
[Symbol]	PROPERTY LINE
[Symbol]	EXISTING EASEMENT
[Symbol]	PROPOSED EASEMENT
[Symbol]	EXISTING CONTOURS
[Symbol]	PROPOSED CONTOURS
[Symbol]	EX. PROP. STORM LINE
[Symbol]	EX. PROP. WATER LINE
[Symbol]	EX. PROP. SANITARY SEWER LINE
[Symbol]	EXISTING THERMALS
[Symbol]	PROPOSED THERMALS
[Symbol]	EX. PROP. GAS LINE
[Symbol]	EX. PROP. DATA/TELECOM
[Symbol]	EX. PROP. UNDERGROUND ELECTRIC
[Symbol]	EX. PROP. FIBER OPTIC
[Symbol]	EX. PROP. OVERHEAD ELECTRIC
[Symbol]	EX. PROP. FIRE HYDRANT
[Symbol]	EX. PROP. WATER METER
[Symbol]	EX. PROP. GATE VALVE
[Symbol]	EX. IRRIGATION CONTROL VALVE
[Symbol]	PROP. FIRE DEPARTMENT CONNECTION
[Symbol]	PROP. POST INDICATOR VALVE
[Symbol]	PROP. HOSE LAY
[Symbol]	EX. PROP. SANITARY SEWER MANHOLE
[Symbol]	EX. PROP. SANITARY SEWER CLEANOUT
[Symbol]	EX. STORM SEWER MANHOLE
[Symbol]	PROP. STORM SEWER CURB INLET
[Symbol]	EX. PROP. LIGHT POLE
[Symbol]	PROPOSED PUBLIC ACCESS EASEMENT
[Symbol]	PROPOSED UTILITY EASEMENT

PARKING TABLE

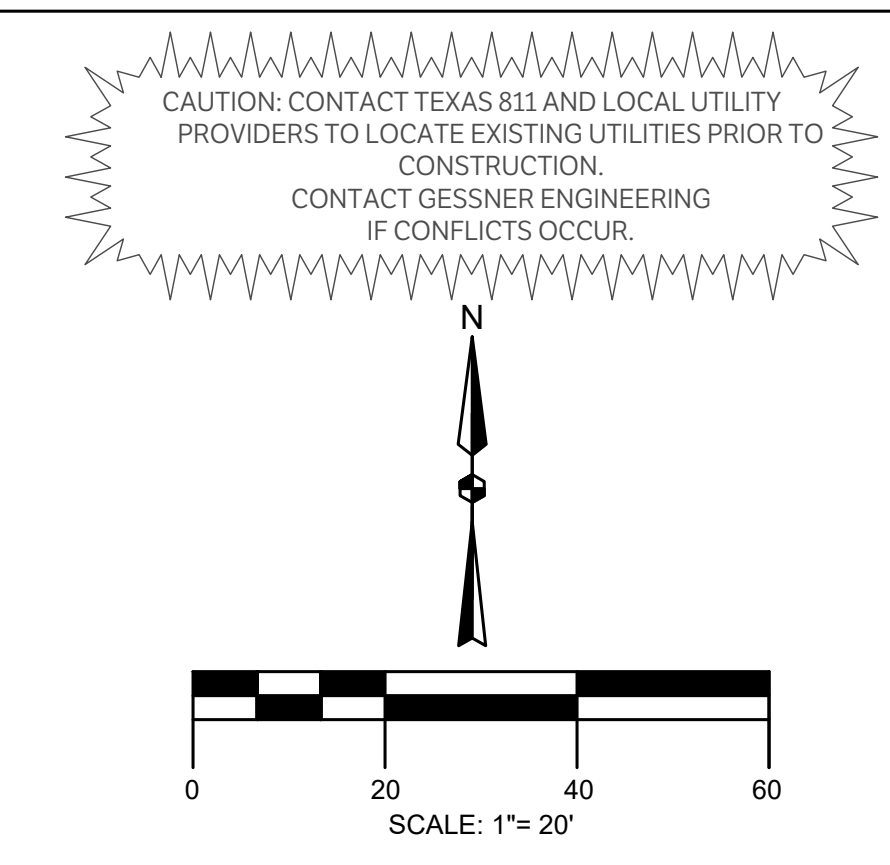
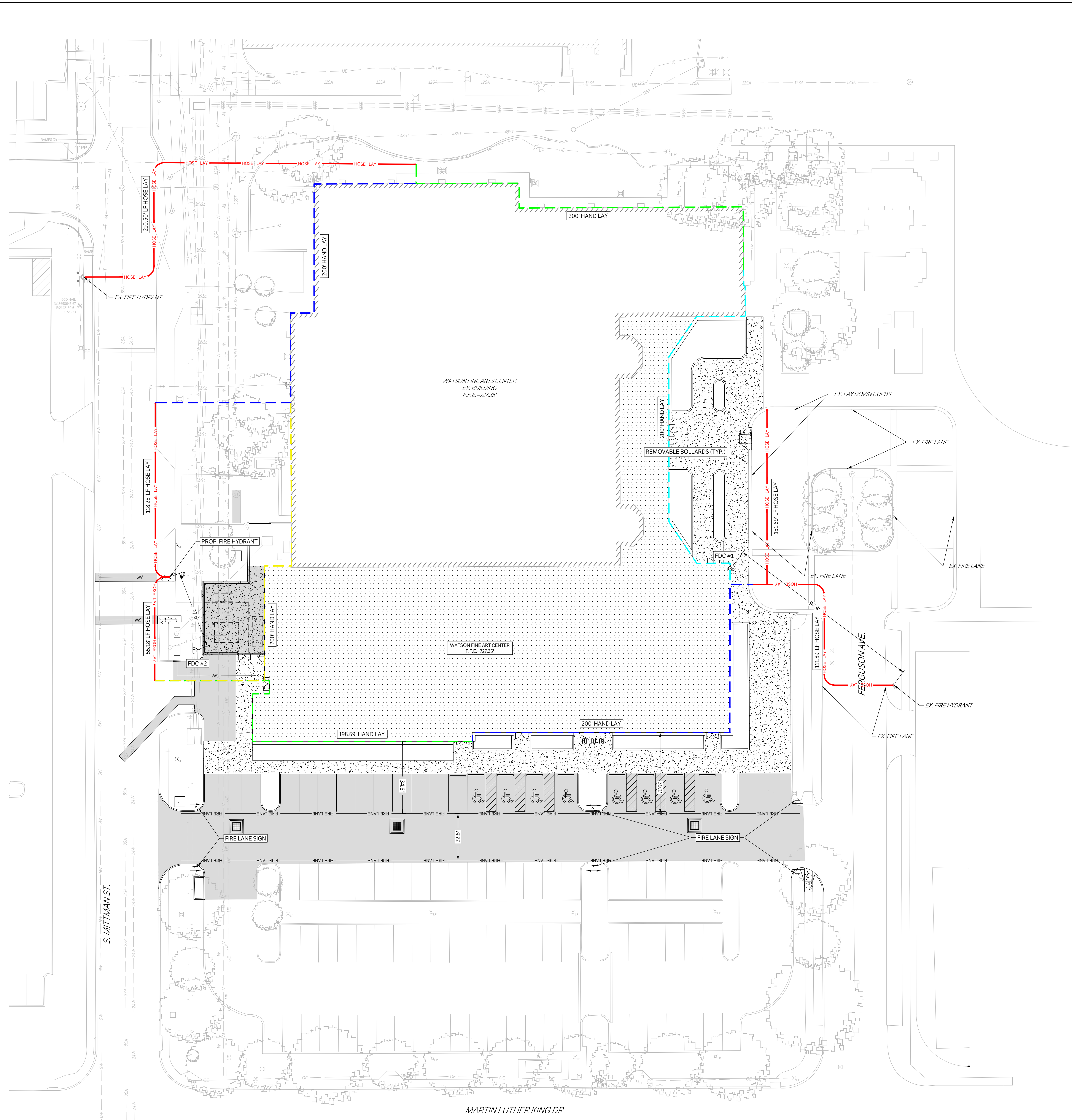
ITEM	QUANTITY
EXISTING PARKING SPOTS	125
EXISTING ADA SPOTS	9
REQUIRED ADA SPOTS	4
PROPOSED PARKING SPOTS	81
PROPOSED ADA SPOTS	8

IMPERVIOUS COVER COMPARISON

	PERVIOUS	IMPERVIOUS	TOTAL
EXISTING	15497.11	66628.36	82125.47
PROPOSED	6426.58	75698.89	82125.47
IMPERVIOUS INCREASE		9070.53	

CHECKED BY:
 SH & AL
 DRAWN BY:
 JC

ISSUE FOR CONSTRUCTION



LEGEND

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[Symbol]	PROPOSED STRUCTURAL PAVEMENT
[Symbol]	REF. STRUCTURAL
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FIRE PROTECTION INFO

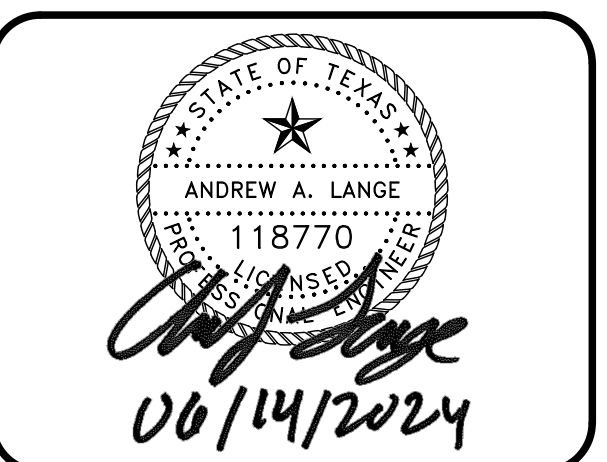
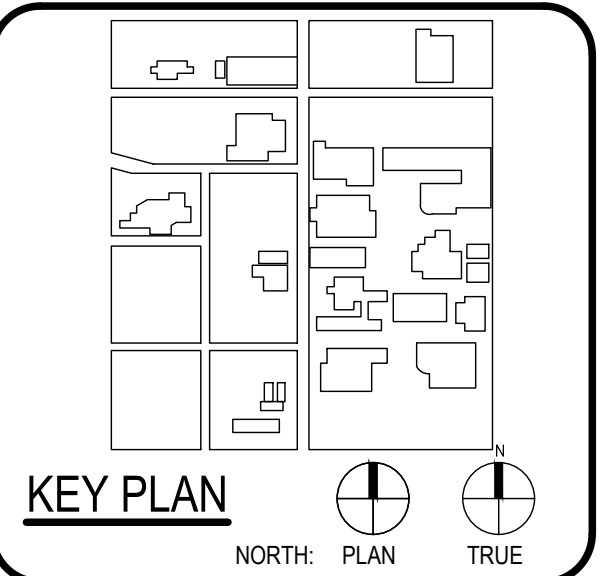
OWNER:	ST. PHILLIPS COLLEGE
SITE AREA (SF)	21,863
NO. OF STORIES	1
PROPOSED BUILDING	TOTAL GSF HEIGHT TYPE
	26,114 38 ft IIB
TOTAL REQUIRED FLOW (GPM)	3,500
BUILDING SPRINKLER SYSTEM:	YES
REDUCTION DUE TO SPRINKLERS:	75%
FINAL REQUIRED FIRE FLOW	875
AVAILABLE FLOW @ 20 PSI (GPM)	940



ARCHITECT: SAN ANTONIO PBK Architects, Inc.
601 N.W. Loop 410, Suite 400
San Antonio, TX 78216
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210-829-0578 F
TX Firm BR 1608

ASSOCIATE ARCHITECT: SH & AL ARCHITECTS
1311 N. LOOP WEST
SUITE 1000
SAN ANTONIO, TX 78207
210-224-1000
LINDY & TRAVIS ENGINEERING
1311 N. LOOP WEST
SUITE 1000
SAN ANTONIO, TX 78207
210-224-1000
MEASUREMENTS
1311 N. LOOP WEST
SUITE 1000
SAN ANTONIO, TX 78207
210-224-1000

WFAC Black Box Addition PKG 1



CLIENT: Alamo Colleges

DATE: 2024/06/12 PROJECT NUMBER: 230462

DRAWING HISTORY

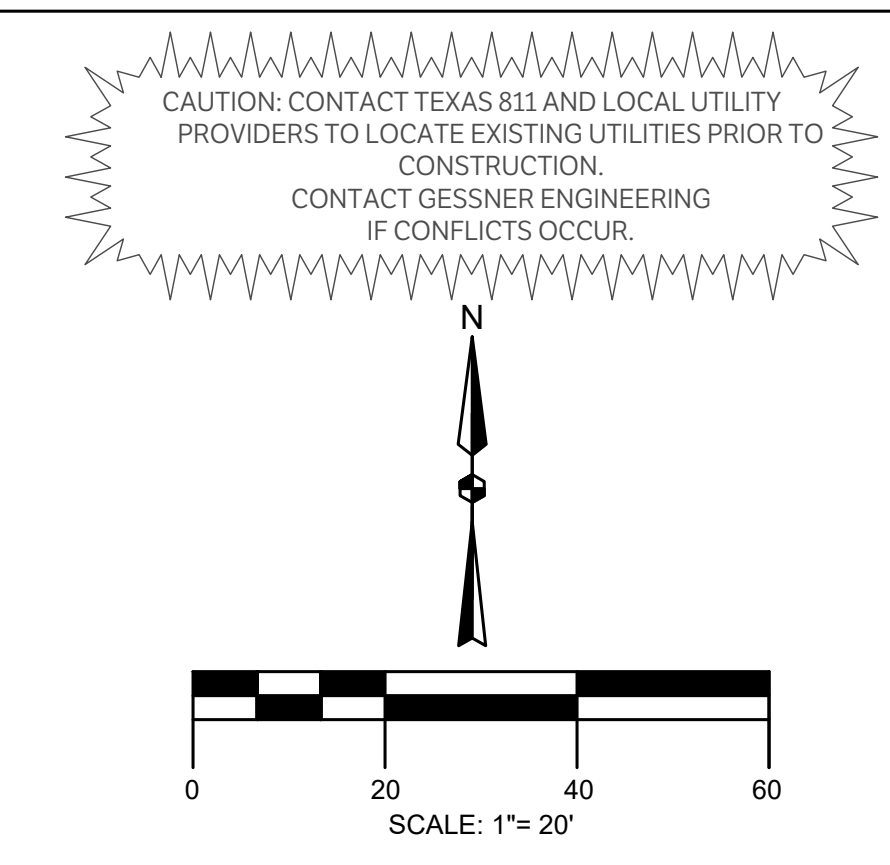
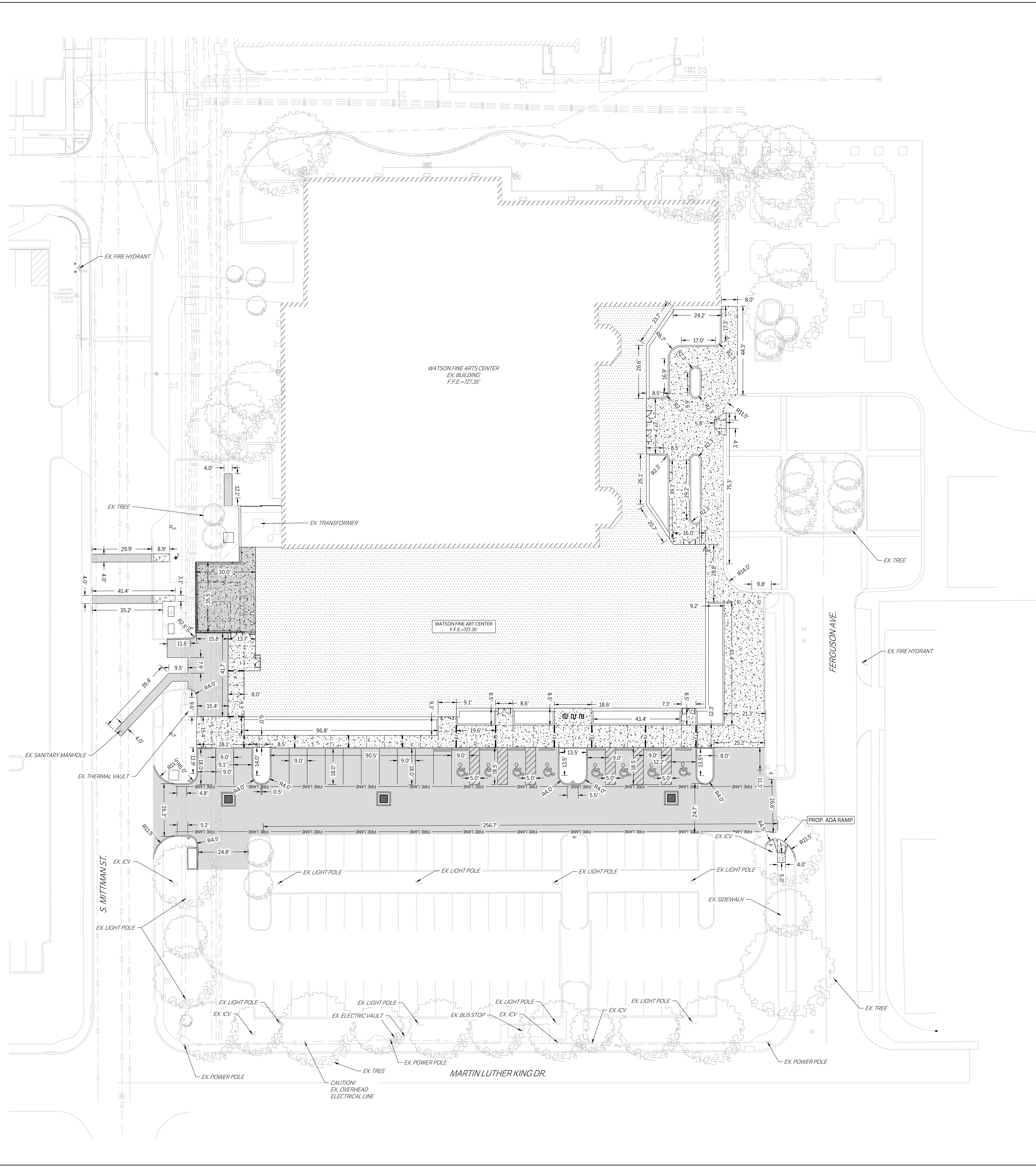
No.	Description	Date

ISSUE FOR CONSTRUCTION

BUILDING NUMBER

SITE FIRE PLAN

ISSUE FOR CONSTRUCTION



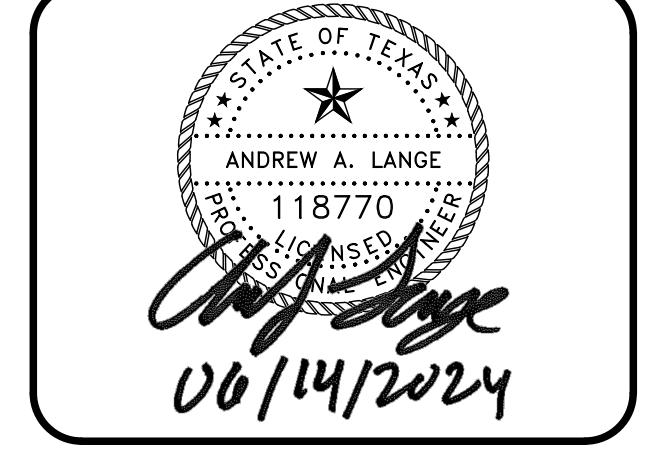
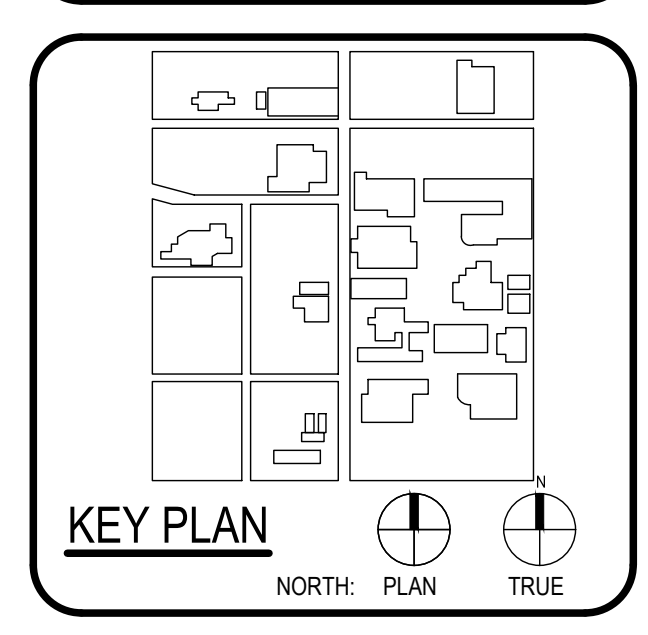
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[Pattern]	PROPOSED ASPHALT PAVEMENT
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ARCHITECT	PBK Architects, Inc.
SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608	
ASSOCIATE ARCHITECT	BA ARCHITECTS
1701 BRUNNEN DALLAS, TEXAS 75201 LANDSCAPE LUNY & HARRIS 1711 W. 14TH ST. DALLAS, TEXAS 75202 LUNY & HARRIS ENGINEERING 1711 W. 14TH ST. DALLAS, TEXAS 75202 LUNY & HARRIS 1711 W. 14TH ST. DALLAS, TEXAS 75202 MEASUREMENTS 1711 W. 14TH ST. DALLAS, TEXAS 75202	

WFAC Black Box Addition PKG 1

600 S. Mittman St.
San Antonio, TX 78203
ISSUE FOR CONSTRUCTION



CLIENT	Alamo Colleges	
DATE	2024/06/12	
PROJECT NUMBER	230462	
DRAWING HISTORY		
No.	Description	Date

ISSUE FOR CONSTRUCTION

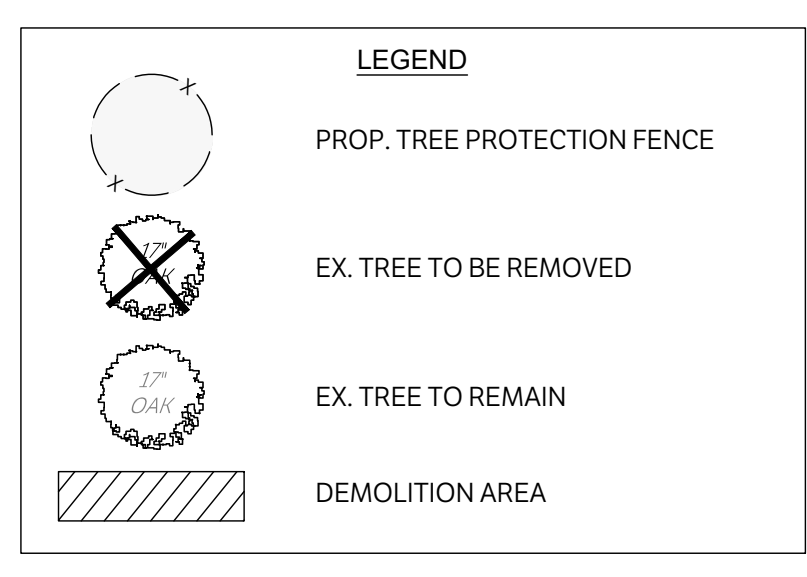
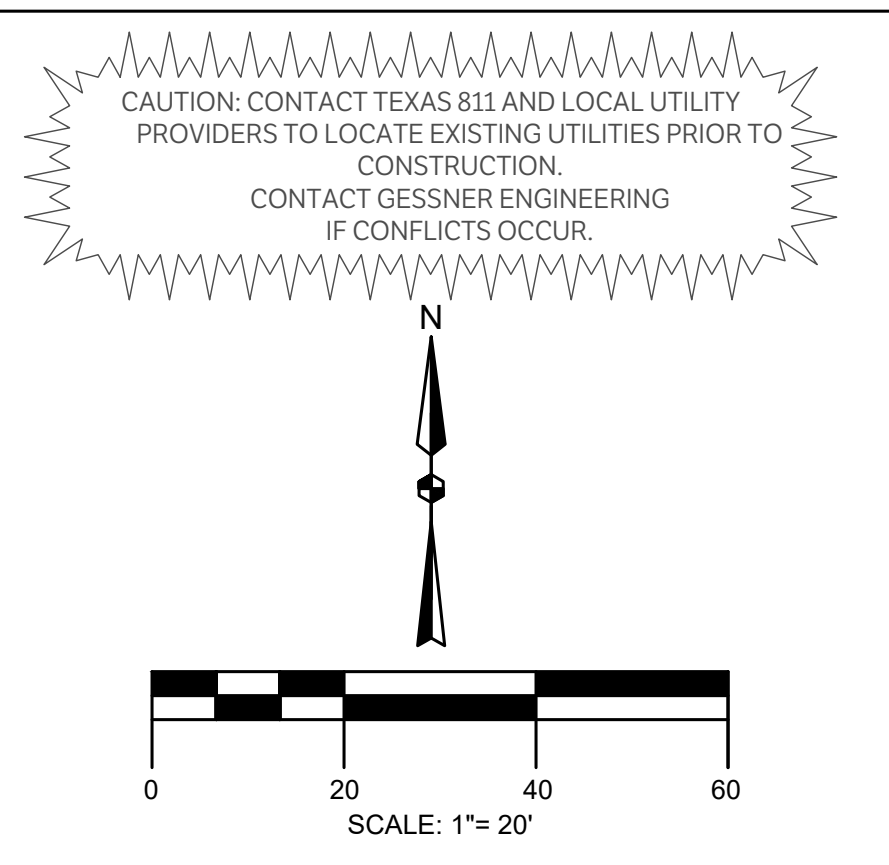
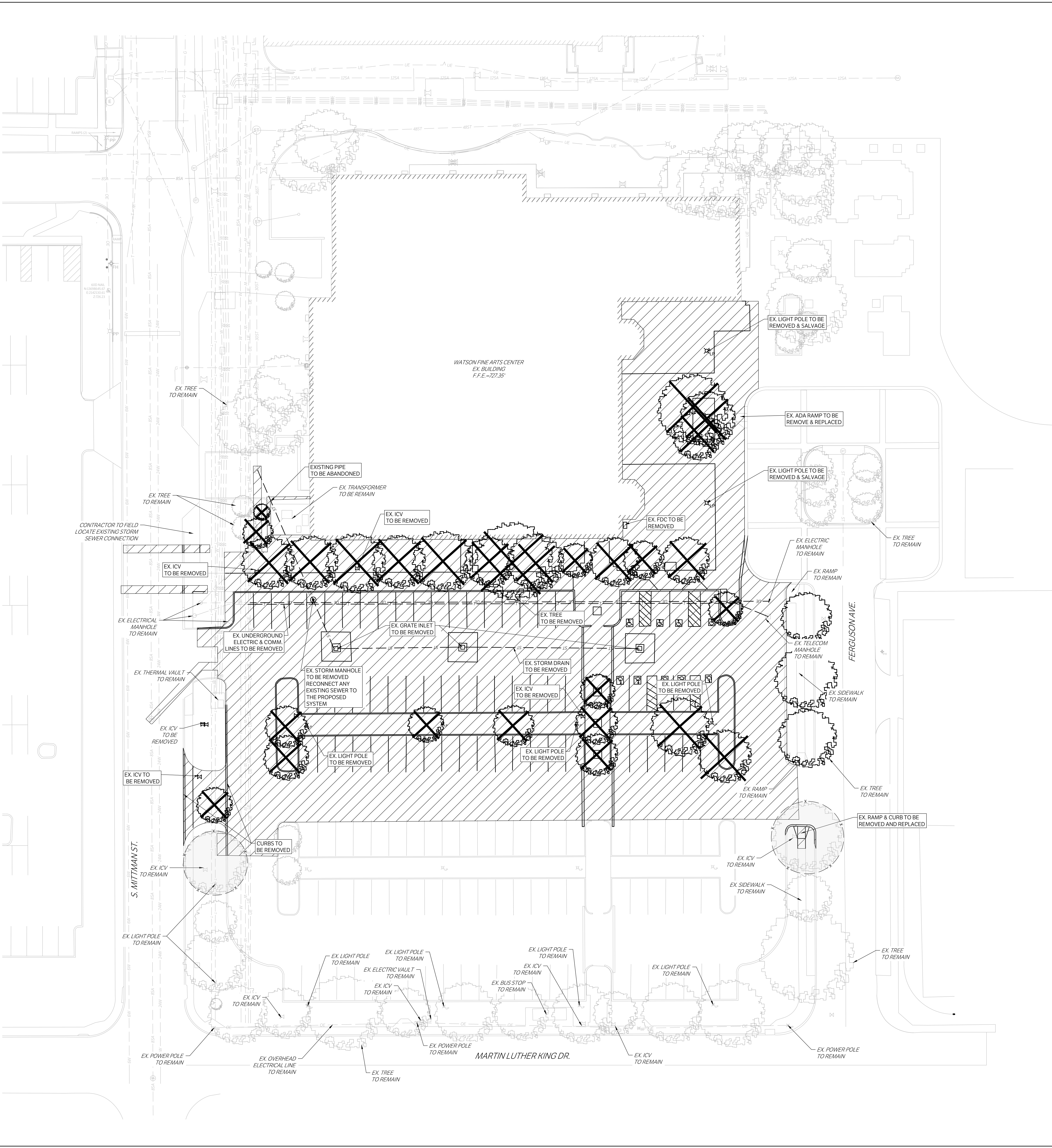
BUILDING NUMBER

DIMENSION CONTROL & PAVING PLAN

C202

ISSUE FOR CONSTRUCTION

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FOR BLUEBERRY LABELING.COR.

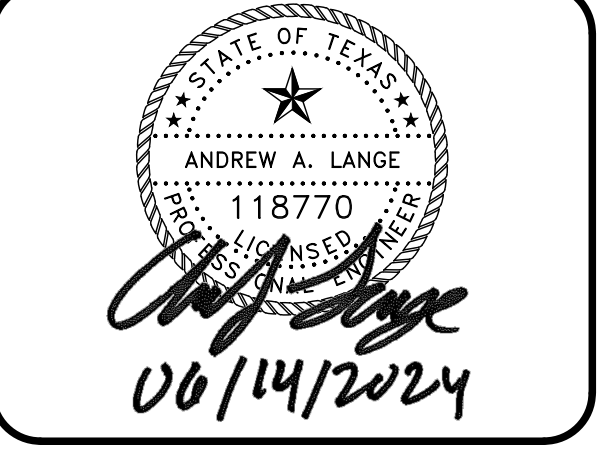
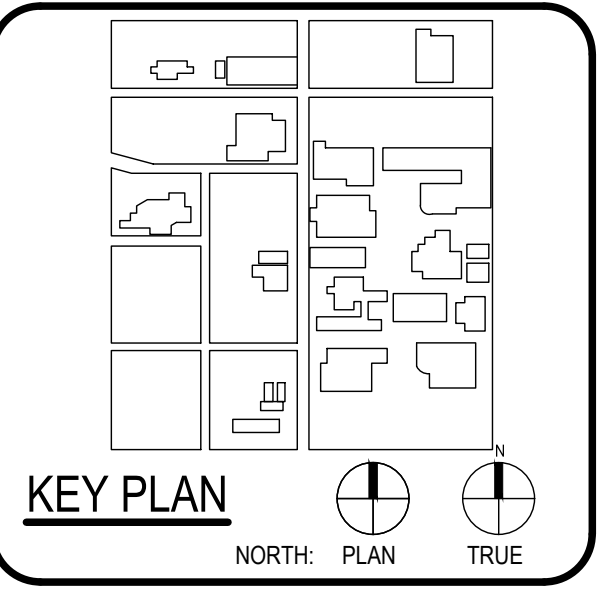


CAUTION: CONTACT TEXAS 811 AND LOCAL UTILITY PROVIDERS TO LOCATE EXISTING UTILITIES PRIOR TO CONSTRUCTION.
CONTACT GESSNER ENGINEERING IF CONFLICTS OCCUR.



ARCHITECT	PBK Architects, Inc.
SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608	
ARCHITECT	BA & ARCHITECTS
2101 BRASS CELEBRITY LANDSCAPE ROSE AND GARDEN 1111 W. 14TH ST. SAN ANTONIO, TX 78205 LUNDY & HARRIS ENGINEERING 1111 W. 14TH ST. SAN ANTONIO, TX 78205 T. 210-829-0123 P. 210-829-0578 F. 210-829-0578 TX Firm BR 1608	

WFAC Black Box Addition PKG 1



CLIENT		
Alamo Colleges		
DATE	PROJECT NUMBER	
2024/06/12	230462	
DRAWING HISTORY		
No.	Description	Date

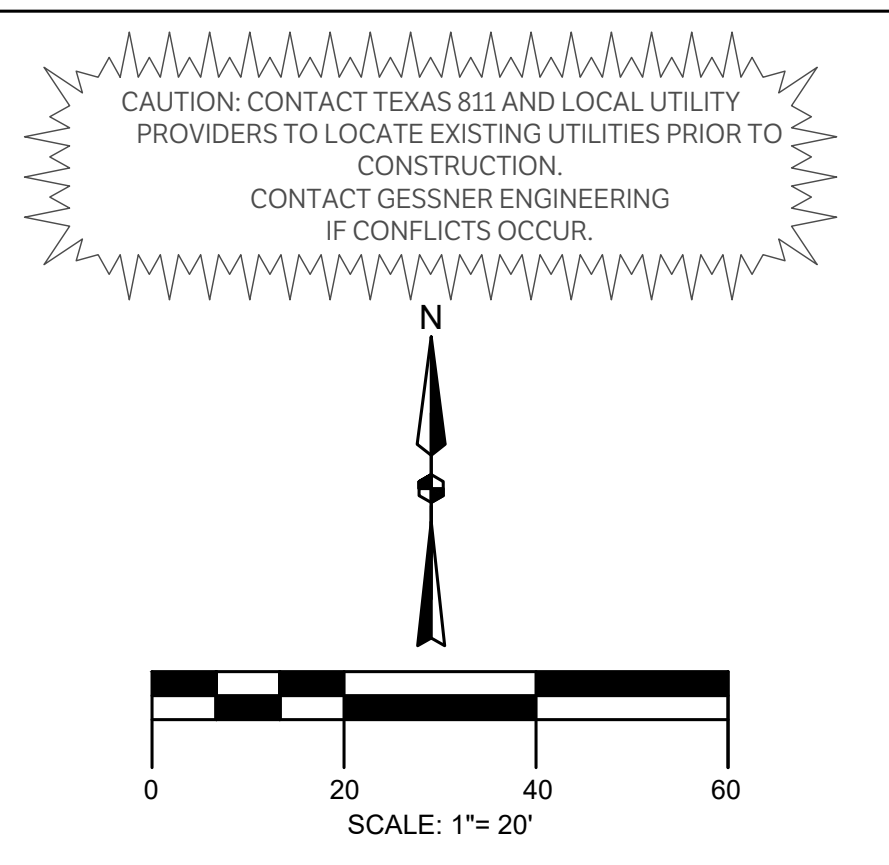
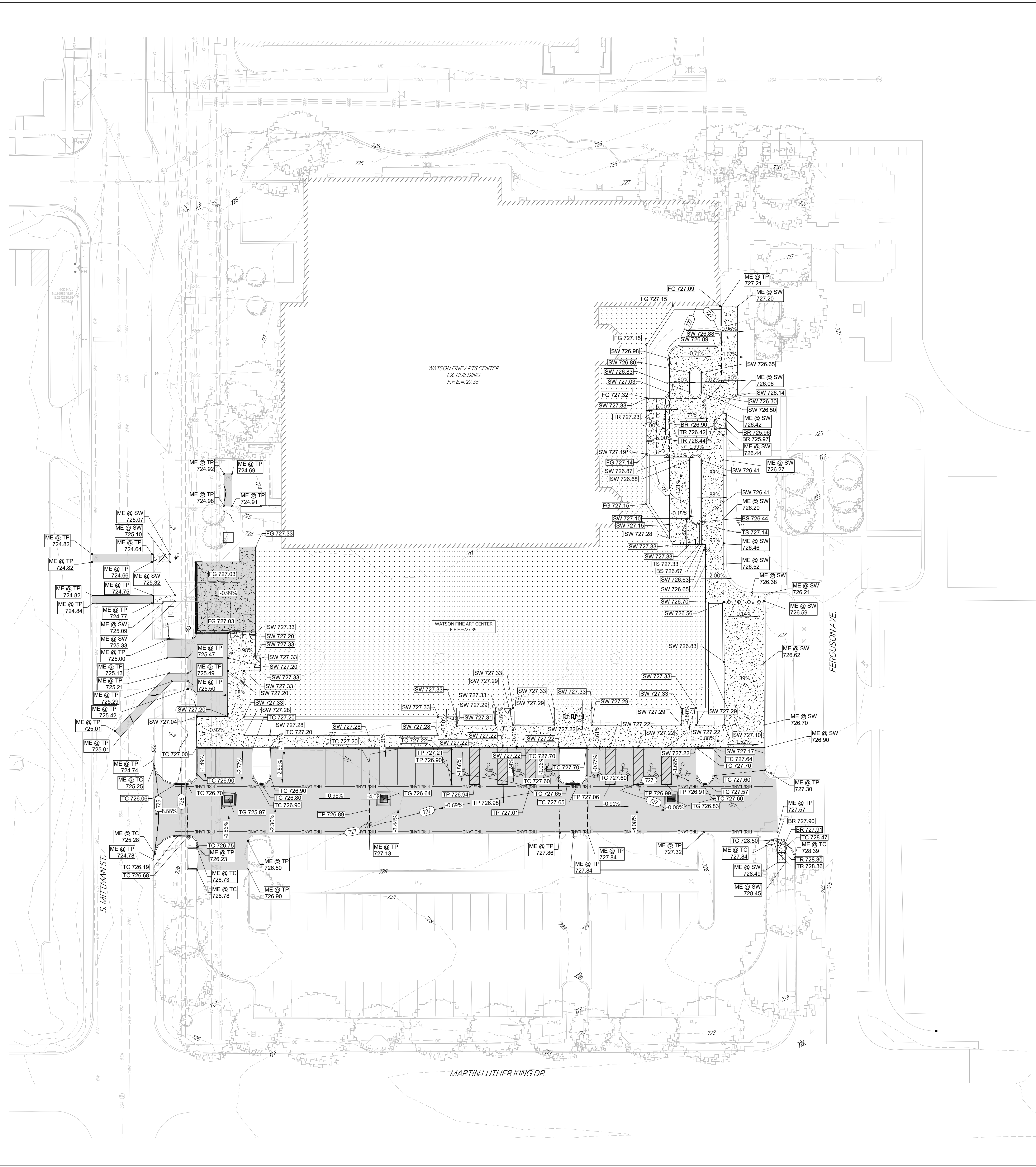
ISSUE FOR CONSTRUCTION
BUILDING NUMBER

EXISTING CONDITIONS & DEMO PLAN

C300

CHECKED BY: SH & AL
DRAWN BY: JC

ISSUE FOR CONSTRUCTION



LEGEND

- 340 --- EXISTING CONTOURS
- (340) PROPOSED CONTOURS
- PROPERTY LINE
- PROPOSED SWALE WITH DIRECTION OF FLOW ARROWS
- GRADE BREAK
- BR PROPOSED FINISHED GRADE AT BOTTOM OF RAMP
- BS PROPOSED FINISHED GRADE AT BOTTOM OF STAIR
- BW PROPOSED FINISHED GRADE AT BASE OF WALL
- FG PROPOSED FINISHED GRADE ELEVATION
- FL PROPOSED FLOWLINE ELEVATION
- G PROPOSED GUTTER FLOWLINE ELEVATION
- GB PROPOSED GRADE BREAK
- JB PROPOSED TOP OF JUNCTION BOX ELEVATION
- ME @ SW MATCH EXISTING SIDEWALK ELEVATION
- ME @ TC MATCH EXISTING TOP OF CURB ELEVATION
- ME @ TP MATCH EXISTING TOP OF PAVEMENT ELEVATION
- SW PROPOSED TOP OF PAVEMENT AT SIDEWALK ELEVATION
- TC PROPOSED TOP OF CURB ELEVATION
- TG PROPOSED TOP OF GRATE ELEVATION
- TP PROPOSED TOP OF PAVEMENT ELEVATION
- TR PROPOSED TOP OF RAMP ELEVATION
- TW PROPOSED TOP OF WALL ELEVATION
- TMS PROPOSED TOP MUD SLAB
- BMS PROPOSED BOTTOM OF MUD SLAB

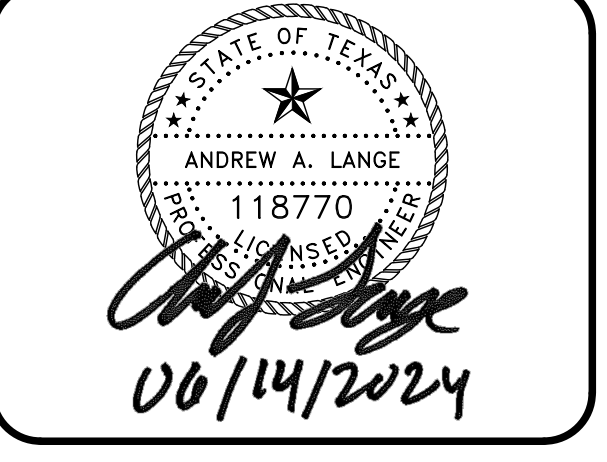
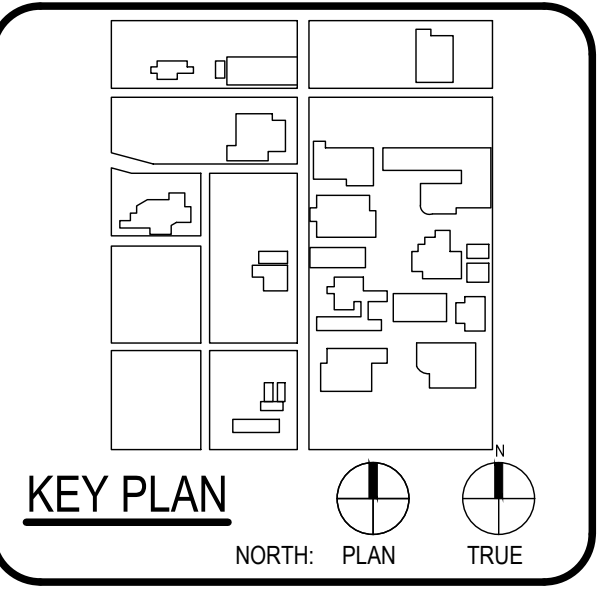
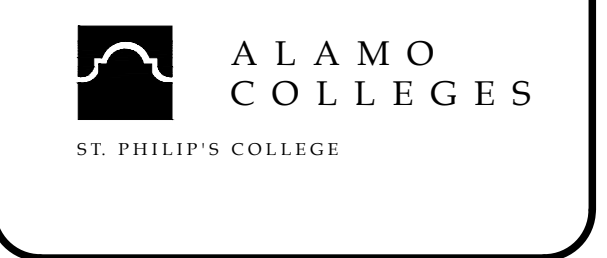


ARCHITECT SAN ANTONIO PBK Architects, Inc.
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210-829-0123 P
210-829-0578 F
TX Firm BR 1608

ASSOCIATE ARCHITECT BA & ARCHITECTS
1225 W. 15th St.
San Antonio, TX 78205
210-461-9999
LUNY & HARRIS ENGINEERING
1111 W. 15th St.
San Antonio, TX 78205
210-461-9999
MEASUREMENTS
1111 W. 15th St.
San Antonio, TX 78205
210-461-9999

WFAC Black Box Addition PKG 1

600 S. Mittman St.
San Antonio, TX 78203
ISSUE FOR CONSTRUCTION



CLIENT Alamo Colleges
DATE 2024/06/12 PROJECT NUMBER 230462

DRAWING HISTORY		
No.	Description	Date

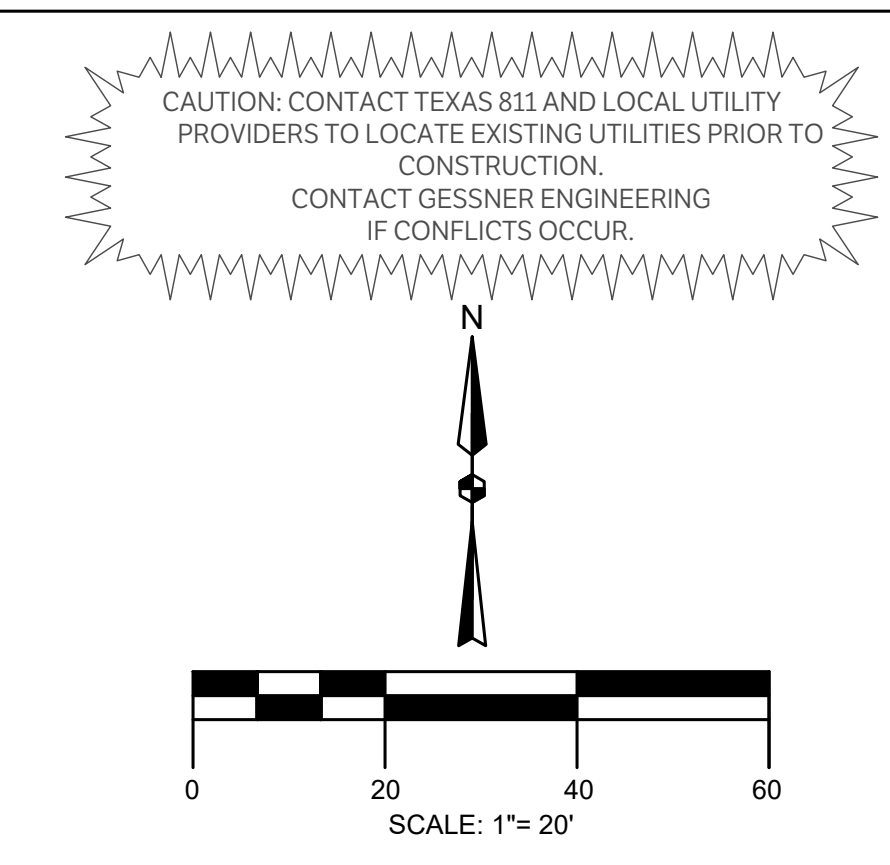
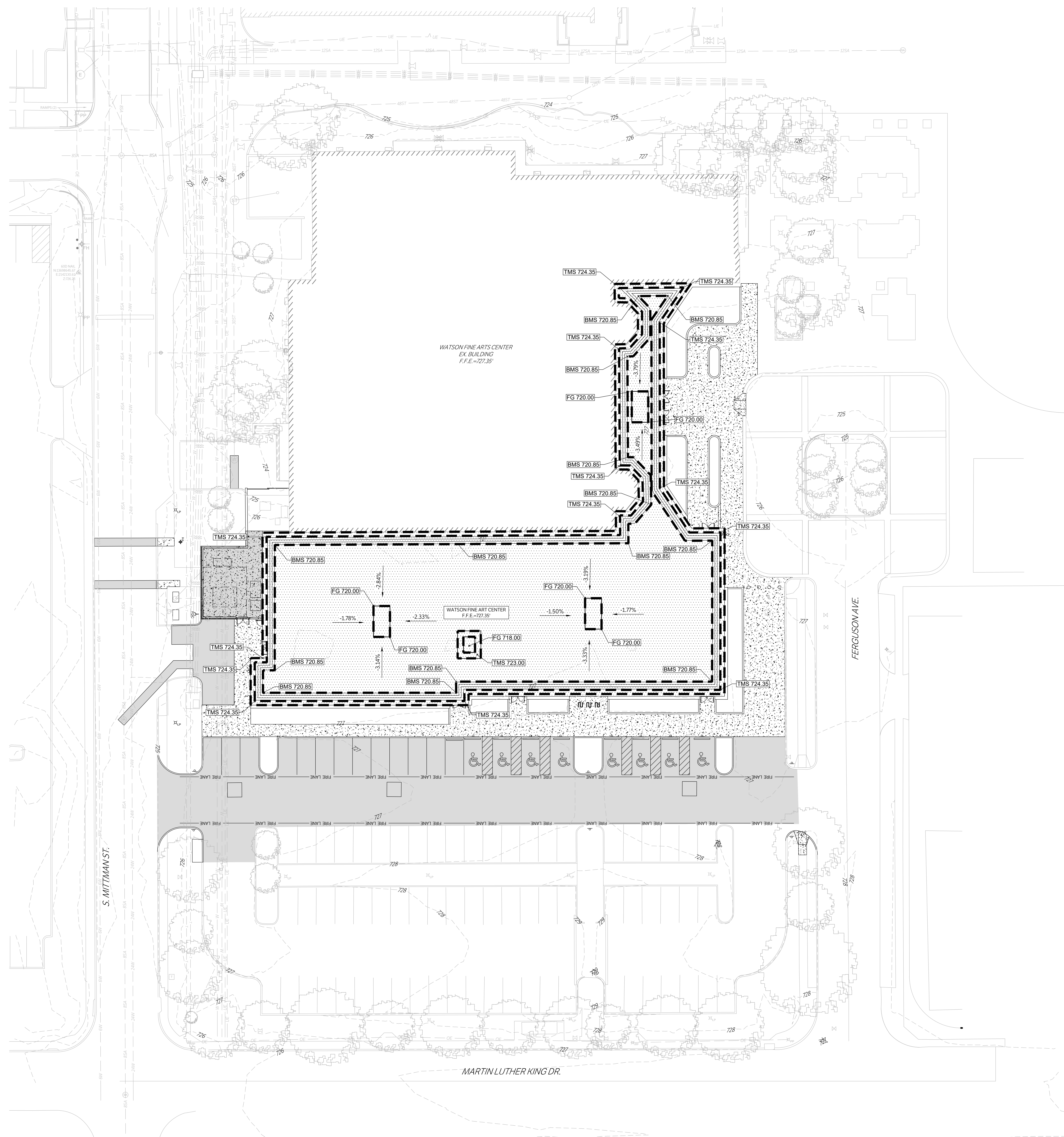
ISSUE FOR CONSTRUCTION

BUILDING NUMBER

GRADING PLAN

C400

ISSUE FOR CONSTRUCTION



LEGEND

- 340 --- EXISTING CONTOURS
- (340) PROPOSED CONTOURS
- PROPERTY LINE
- PROPOSED SWALE WITH DIRECTION OF FLOW ARROWS
- GRADE BREAK
- BR PROPOSED FINISHED GRADE AT BOTTOM OF RAMP
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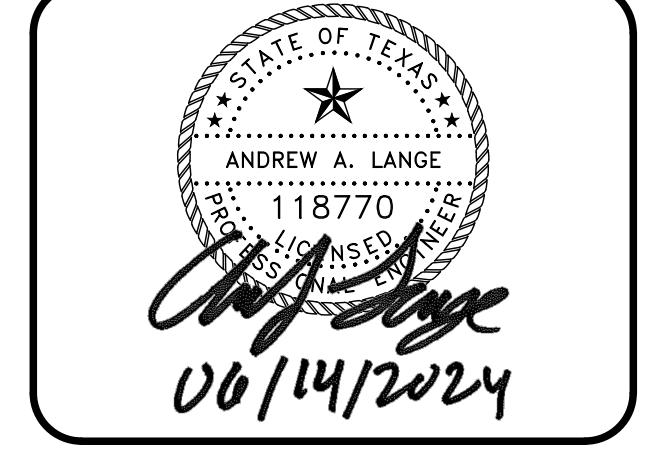
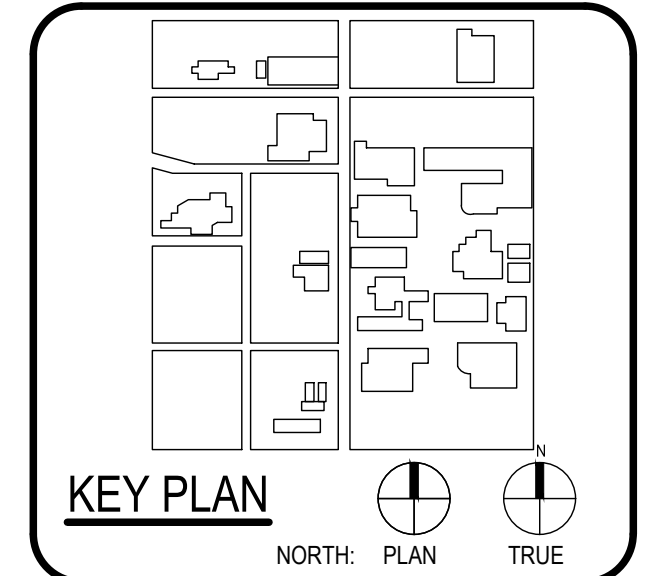


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ASSOCIATE ARCHITECT BA & ARCHITECTS
1111 N. LOOP WEST
SUITE 1000
SAN ANTONIO, TEXAS 78201
210-461-0000
LINDY & TRAVIS ENGINEERING
1111 N. LOOP WEST
SUITE 1000
SAN ANTONIO, TEXAS 78201
210-461-0000
PROVIDOR
MEAN PROFESSIONALS
1111 N. LOOP WEST
SUITE 1000
SAN ANTONIO, TEXAS 78201

WFAC Black Box Addition PKG 1

600 S. Mittman St.
San Antonio, TX 78203
ISSUE FOR CONSTRUCTION



CLIENT		Alamo Colleges
DATE	PROJECT NUMBER	230462
DRAWING HISTORY		
No.	Description	Date

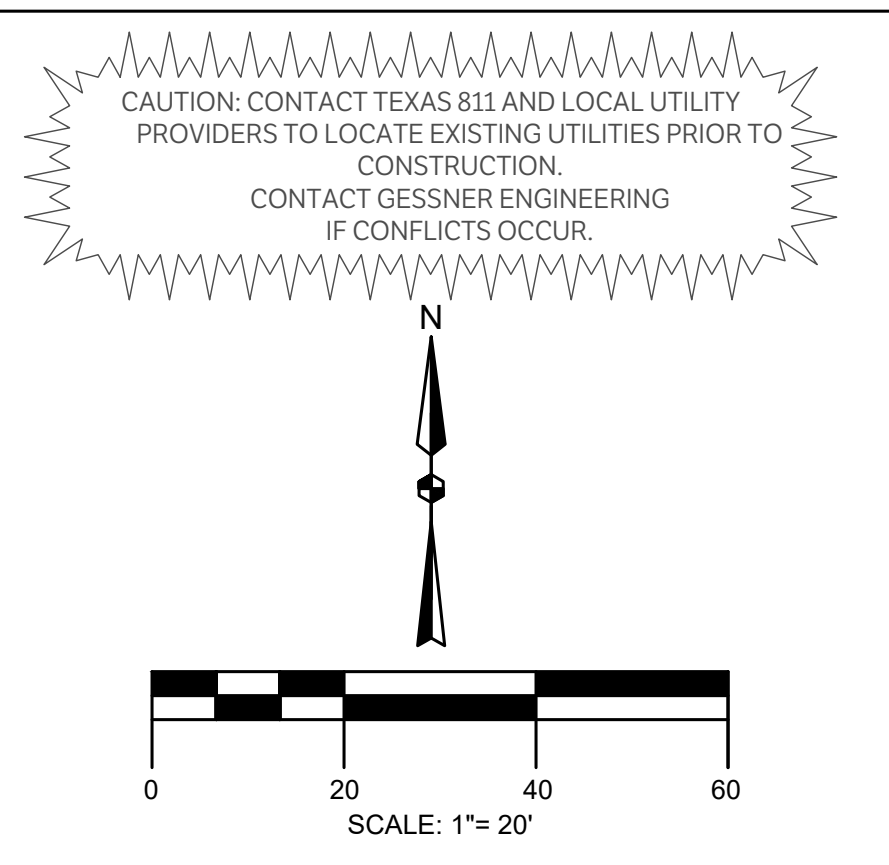
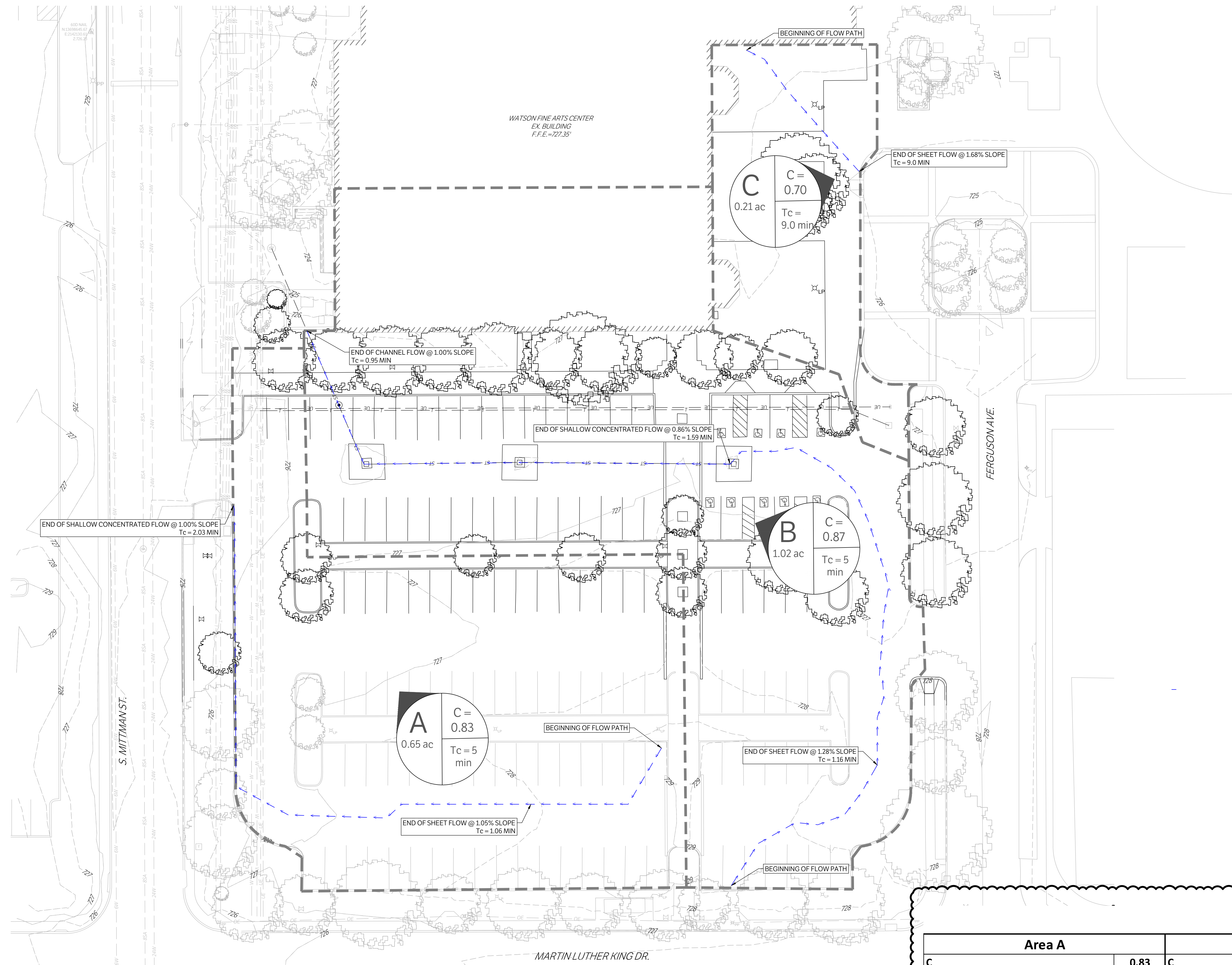
ISSUE FOR CONSTRUCTION
BUILDING NUMBER

CRAWLSPACE

C401

ISSUE FOR PERMIT

Sheet Grids Template
Z400
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LEGEND

- DRAINAGE AREA BOUNDARY
- A1 DRAINAGE AREA LABEL AND FLOW DIRECTION
- PROPERTY LINE
- EXISTING CONTOURS
- PROPOSED CONTOURS
- FLOW PATH

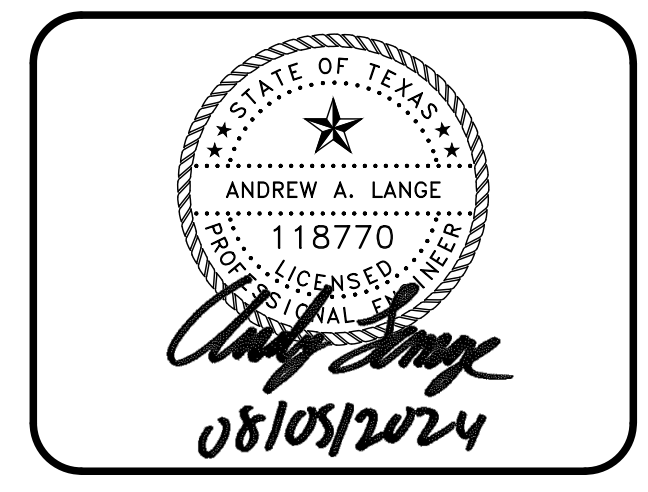
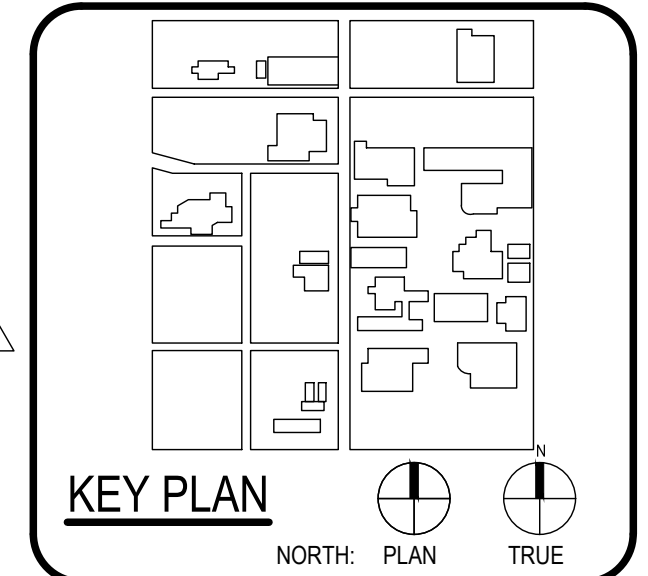
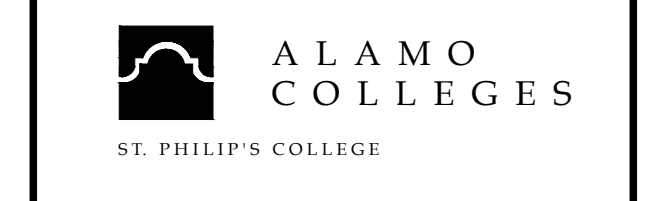
CAUTION: CONTACT TEXAS 811 AND LOCAL UTILITY PROVIDERS TO LOCATE EXISTING UTILITIES PRIOR TO CONSTRUCTION.
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ARCHITECT SAN ANTONIO PBK Architects, Inc.
601 N.W. Loop 410, Suite 400
San Antonio, TX 78216
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WFAC Black Box Addition PKG 1

600 S Milman St.
San Antonio, TX 78203
ISSUE FOR PERMIT



CLIENT: Alamo Colleges
DATE: 2024/06/12 PROJECT NUMBER: 230462

No.	Description	Date
1	ADDENDUM 1	08/05/2024

ISSUE FOR PERMIT

BUILDING NUMBER

PRE DRAINAGE AREA MAP

C500

Pre AREA A					
COVER TYPE	SURFACE DESCRIPTION	C	AREA (SF)	AREA (AC)	C x AREA
Impervious Areas	Paved parking lots, roofs driveways etc.	0.95	23001.03	0.53	0.50
Grass Cover	Grass Cover > 75%	0.35	5475.37	0.13	0.04
TOTAL			28476.40	0.65	0.55
			C 0.83		

Pre AREA B					
COVER TYPE	SURFACE DESCRIPTION	C	AREA (SF)	AREA (AC)	C x AREA
Impervious Areas	Paved parking lots, roofs driveways etc.	0.95	38420.17	0.88	0.84
Grass Cover	Grass Cover > 75%	0.35	6070.51	0.14	0.05
TOTAL			44490.68	1.02	0.89
			C 0.87		

Pre AREA C					
COVER TYPE	SURFACE DESCRIPTION	C	AREA (SF)	AREA (AC)	C x AREA
Impervious Areas	Paved parking lots, roofs driveways etc.	0.95	5207.16	0.12	0.11
Grass Cover	Grass Cover > 75%	0.35	3951.23	0.09	0.03
TOTAL			9158.39	0.21	0.15
			C 0.70		

PRE DEVELOPMENT PEAK RUNOFF							
AREA	SIZE (AC)	C	TC (MIN)	1 YR (CFS)	5 YR (CFS)	25 YR (CFS)	100 YR (CFS)
A	0.65	0.83	5.0	2.9	4.2	5.9	7.4
B	1.02	0.87	5.0	4.7	7.0	9.7	12.2
C	0.21	0.70	9.0	0.7	1.0	1.3	1.6

Time (minutes)	Atlas 14 Rainfall Intensity (in/hr)			
	1 - YEAR	5 - YEAR	25 - YEAR	100 - YEAR
5	5.29	7.88	11.00	13.79
6	5.07	7.45	10.43	13.08
7	4.86	7.11	9.95	12.49
8	4.64	6.81	9.54	11.97
9	4.43	6.54	9.17	11.49
10	4.21	6.30	8.82	11.05

Pre					
Area A		Area B		Area C	
C	0.83	C	0.87	C	0.70
Area (ac)	0.65	Area (ac)	1.02	Area (ac)	0.21
Flow Length (ft)	315.12	Flow Length (ft)	479.97	Flow Length (ft)	70.70
SCS Sheet Flow (ft)	68.20	SCS Sheet Flow (ft)	85.32	SCS Sheet Flow (ft)	47.40
Slope (%)	1.02	Slope (%)	1.28	Slope (%)	1.78
Manning's Roughness	0.013	Manning's Roughness	0.013	Manning's Roughness	0.300
Flow Time (min)	1.06	Flow Time (min)	1.16	Flow Time (min)	8.91
SCS Shallow Concentrated Flow (ft)	246.92	SCS Shallow Concentrated Flow (ft)	180.17	SCS Sheet Flow (ft)	23.30
PAVEMENT		PAVEMENT		Slope (%)	1.57
Slope (%)	1.00	Slope (%)	0.86	Manning's Roughness	0.011
Velocity (ft/s)	2.03	Velocity (ft/s)	1.89	Flow Time (min)	0.38
Flow Time (min)	2.03	Flow Time (min)	1.59	Time of Concentration (min)	9.00
Time of Concentration (min)	3.09	SCS Channel Flow (ft)	153.60	*COSA requires min TOC of 5 min*	
COSA requires min TOC of 5 min		Slope (%)	0.21		
		Manning's Roughness	0.012		
		Velocity (ft/s)	2.95		
		Flow Time (min)	0.85		
		SCS Channel Flow (ft)	60.88		
		Slope (%)	1.79		
		Manning's Roughness	0.011		
		Velocity (ft/s)	6.50		
		Flow Time (min)	0.10		
		Time of Concentration (min)	3.70		
COSA requires min TOC of 5 min					

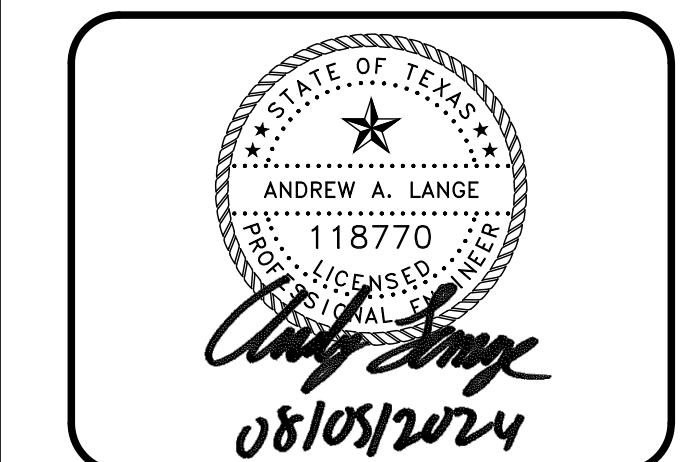
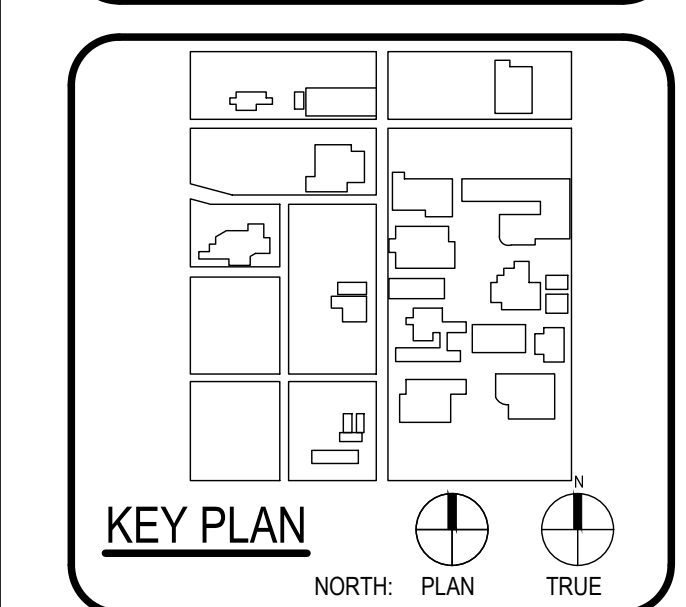
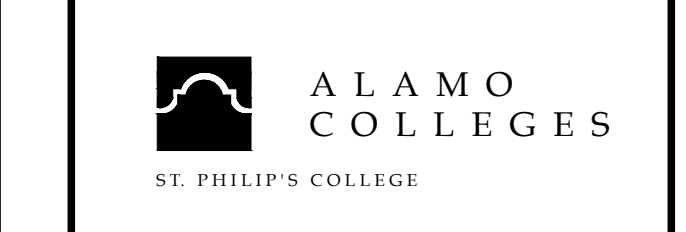
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DRAWN BY: JC

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601 N.W. Loop 410, Suite 400
San Antonio, TX 78216
210-829-0123 P
210-829-0578 F
TX Firm BR 1608

WFAC Black Box Addition PKG 1
600 S Milam St.
San Antonio, TX 78203
ISSUE FOR PERMIT

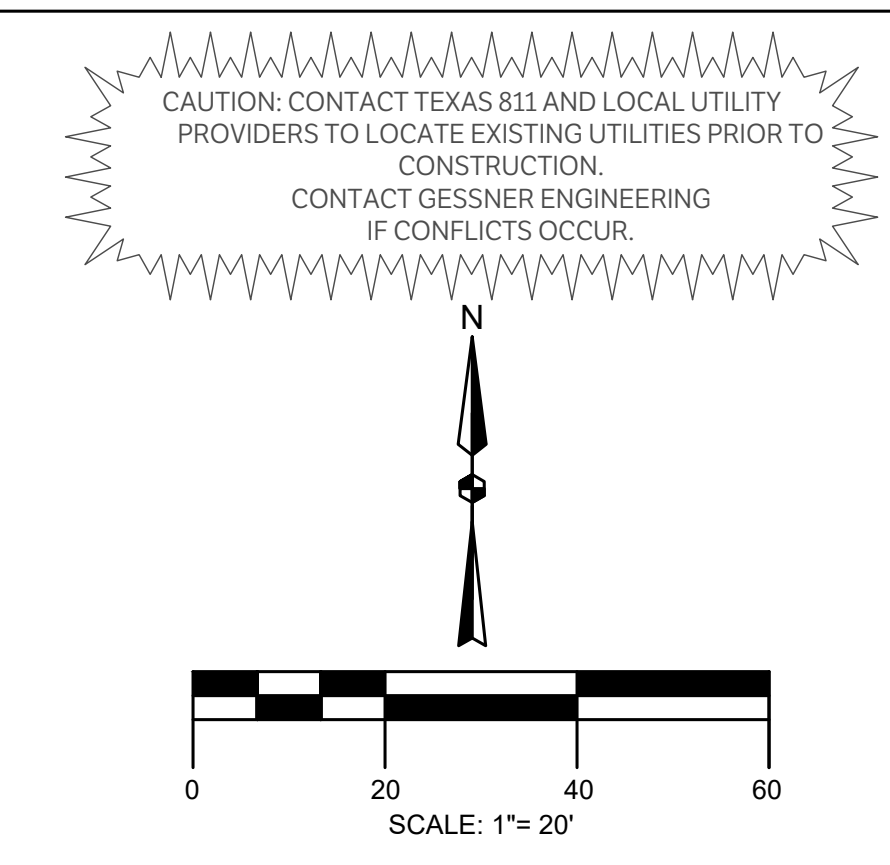


CLIENT		Alamo Colleges	
DATE	2024/06/12	PROJECT NUMBER	230462
DRAWING HISTORY			
No.	Description	Date	
1	ADDENDUM 1	08/05/2024	

ISSUE FOR PERMIT
BUILDING NUMBER

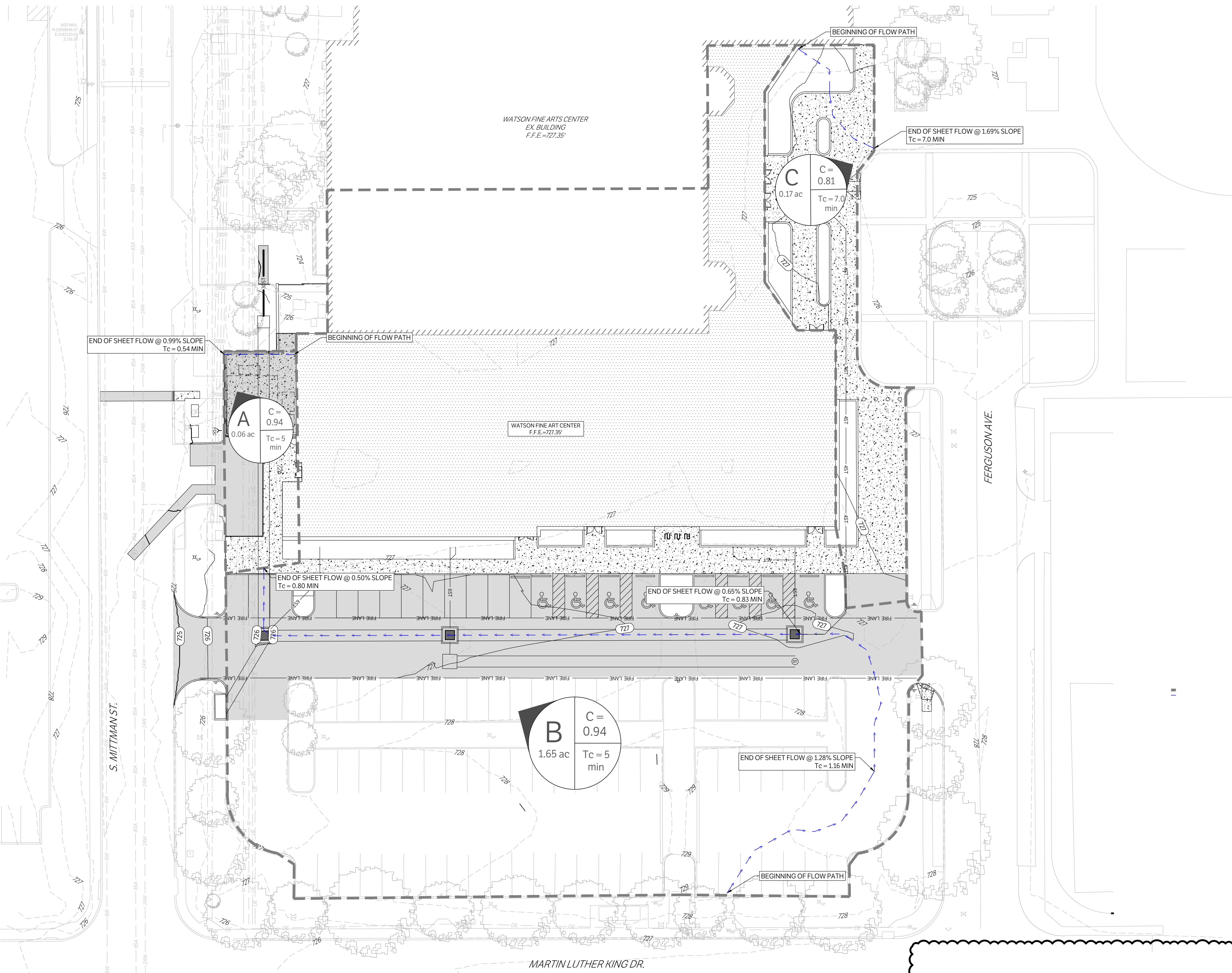
POST DRAINAGE AREA MAP

C501



LEGEND

- DRAINAGE AREA BOUNDARY
- ⊙ A1 DRAINAGE AREA LABEL AND FLOW DIRECTION
- PROPERTY LINE
- - - - - EXISTING CONTOURS
- PROPOSED CONTOURS
- FLOW PATH



Required Storage	
Storm Event	Required Storage (ft ³)
1 - Year	2037.00
5 - Year	2784.00
25 - Year	3698.00
100 - Year	4549.00

Area A		Area B		Area C	
C	0.94	C	0.91	C	0.81
Area (ac)	0.06	Area (ac)	1.65	Area (ac)	0.17
Flow Length (ft)	29.10	Flow Length (ft)	416.77	Flow Length (ft)	70.70
SCS Sheet Flow (ft)	29.10	SCS Sheet Flow (ft)	85.32	SCS Sheet Flow (ft)	24.73
Slope (%)	0.99	Slope (%)	1.28	Slope (%)	0.83
Manning's Roughness	0.011	Manning's Roughness	0.013	Manning's Roughness	0.300
Flow Time (min)	0.54	Flow Time (min)	1.32	Flow Time (min)	7.18
Time of Concentration (min)	0.54	SCS Shallow Concentrated Flow (ft)	81.23	SCS Sheet Flow (ft)	32.46
COSA requires min TOC of 5 min		PAVEMENT		Slope (%)	2.55
		Slope (%)	0.65	Manning's Roughness	0.011
		Velocity (ft/s)	1.64	Flow Time (min)	0.40
		Flow Time (min)	0.83	Time of Concentration (min)	8.00
		SCS Channel Flow (ft)	224.55	*COSA requires min TOC of 5 min*	
		Slope (%)	0.50		
		Manning's Roughness	0.011		
		Velocity (ft/s)	5.00		
		Flow Time (min)	0.74		
		SCS Channel Flow (ft)	25.67		
		Slope (%)	0.50		
		Manning's Roughness	0.011		
		Velocity (ft/s)	7.00		
		Flow Time (min)	0.06		
		Time of Concentration (min)	2.95		
		COSA requires min TOC of 5 min			

POST DEVELOPMENT PEAK RUNOFF							
AREA	SIZE (AC)	C	TC (MIN)	1 YR (CFS)	5 YR (CFS)	25 YR (CFS)	100 YR (CFS)
A	0.06	0.94	5.0	0.3	0.4	0.6	0.8
B	1.65	0.91	5.0	8.2	12.2	16.9	21.2
C	0.17	0.81	8.0	0.6	0.9	1.3	1.6

Time (minutes)	Atlas 14 Rainfall Intensity (in/hr)			
	1 - YEAR	5 - YEAR	25 - YEAR	100 - YEAR
5	5.29	7.88	11.00	13.79
6	5.07	7.45	10.43	13.08
7	4.86	7.11	9.95	12.49
8	4.64	6.81	9.54	11.97
9	4.43	6.54	9.17	11.49
10	4.21	6.30	8.82	11.05

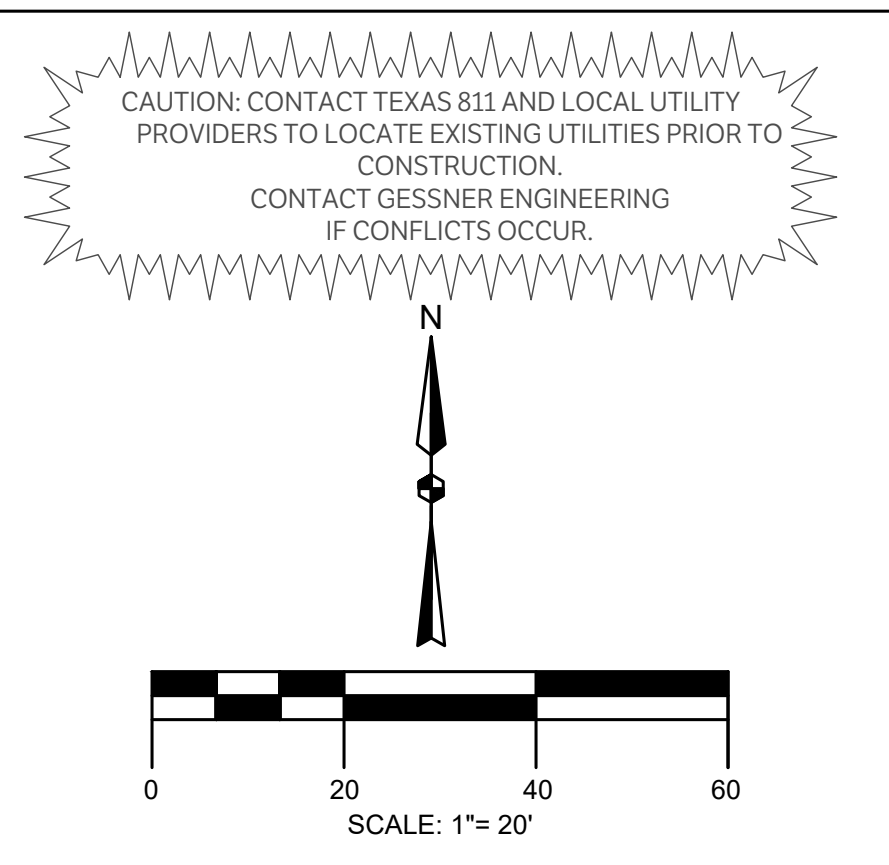
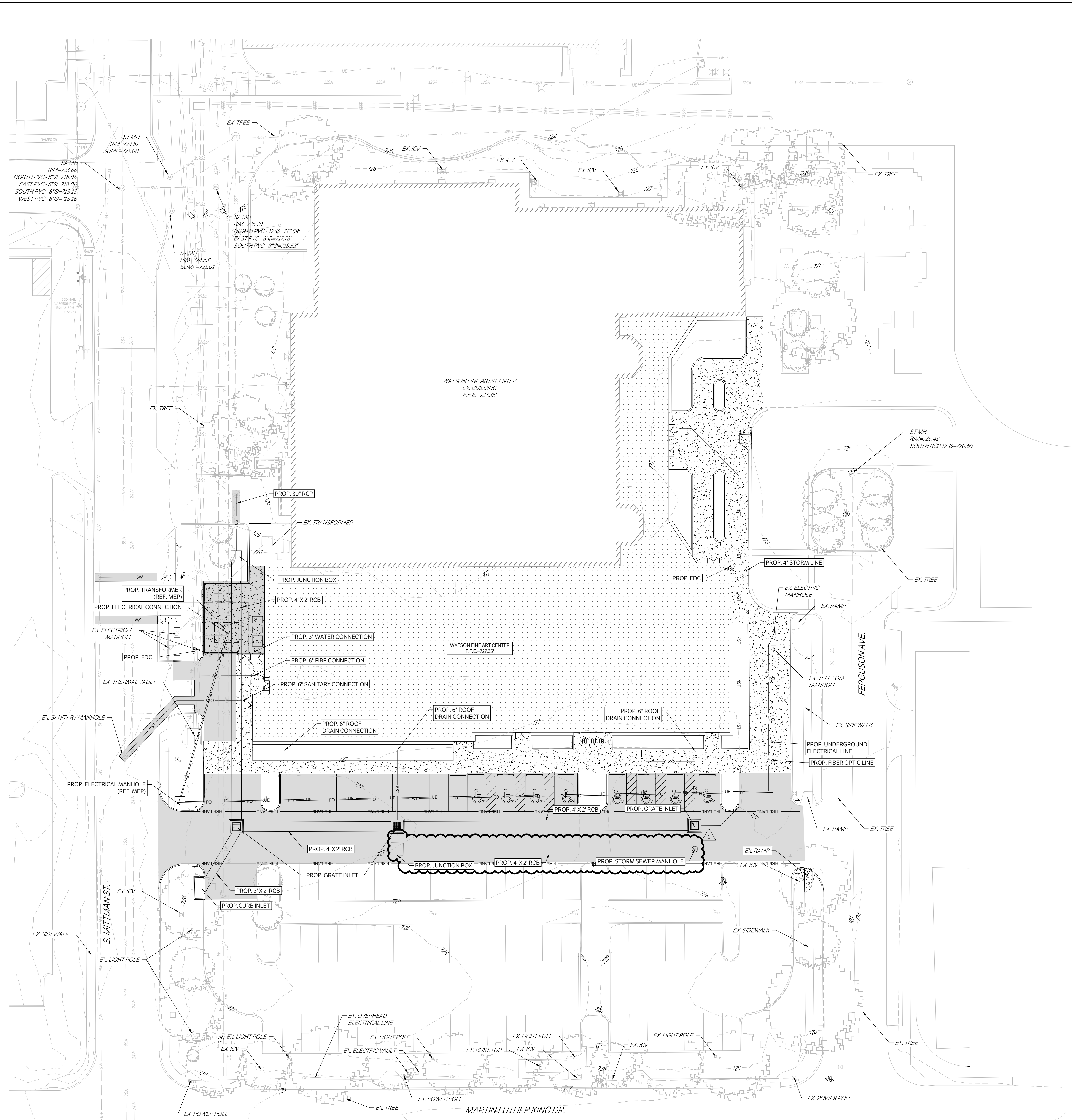
POST AREA A					
COVER TYPE	SURFACE DESCRIPTION	C	AREA (SF)	AREA (AC)	C x AREA
Impervious Areas	Paved parking lots, roofs driveways etc.	0.95	2700.94	0.06	0.06
Grass Cover	Grass Cover > 75%	0.35	54.6	0.00	0.00
TOTAL			2755.54	0.06	0.06
			C 0.94		

POST AREA B					
COVER TYPE	SURFACE DESCRIPTION	C	AREA (SF)	AREA (AC)	C x AREA
Impervious Areas	Paved parking lots, roofs driveways etc.	0.95	67228.61	1.54	1.47
Grass Cover	Grass Cover > 75%	0.35	4672.06	0.11	0.04
TOTAL			71900.67	1.65	1.50
			C 0.91		

POST AREA C					
COVER TYPE	SURFACE DESCRIPTION	C	AREA (SF)	AREA (AC)	C x AREA
Impervious Areas	Paved parking lots, roofs driveways etc.	0.95	5769.34	0.13	0.13
Grass Cover	Grass Cover > 75%	0.35	1699.92	0.04	0.01
TOTAL			7469.26	0.17	0.14
			C 0.81		

Sheet Grids Template
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 FOR BLUEBAM LABELING.COR.

ISSUE FOR PERMIT



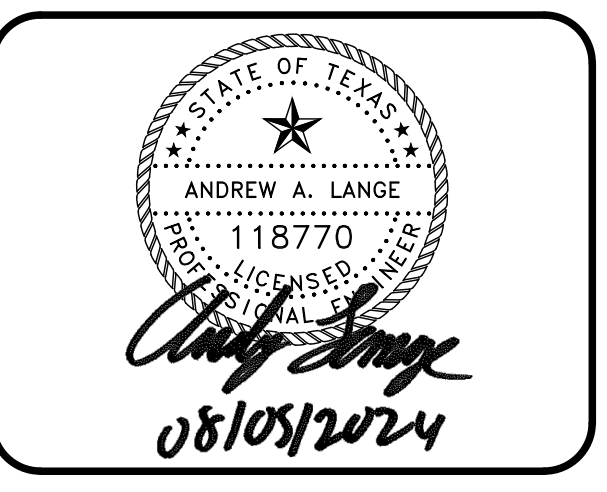
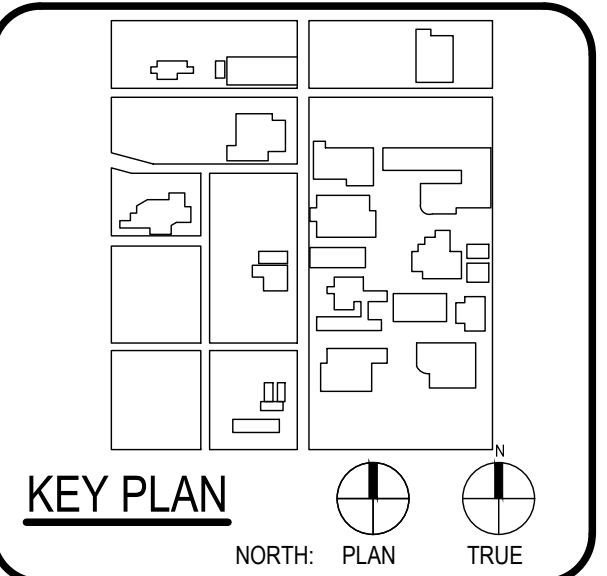
LEGEND

[Symbol]	PROPOSED ASPHALT PAVEMENT
[Symbol]	PROPOSED STRUCTURAL PAVEMENT
[Symbol]	REF. STRUCTURAL
[Symbol]	PROPOSED 4" CONCRETE SIDEWALK
[Symbol]	PROPOSED BUILDING
[Symbol]	EXISTING PAVEMENT EDGE
[Symbol]	PROPERTY LINE
[Symbol]	EXISTING EASEMENT
[Symbol]	PROPOSED EASEMENT
[Symbol]	EXISTING CONTOURS
[Symbol]	PROPOSED CONTOURS
[Symbol]	EX. PROP. STORM LINE
[Symbol]	EX. PROP. WATER LINE
[Symbol]	EX. PROP. SANITARY SEWER LINE
[Symbol]	EXISTING THERMALS
[Symbol]	PROPOSED THERMALS
[Symbol]	EX. PROP. GAS LINE
[Symbol]	EX. PROP. DATA/TELECOM
[Symbol]	EX. PROP. UNDERGROUND ELECTRIC
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[Symbol]	EX. PROP. FIRE HYDRANT
[Symbol]	EX. PROP. WATER METER
[Symbol]	EX. PROP. GATE VALVE
[Symbol]	EX. IRRIGATION CONTROL VALVE
[Symbol]	PROP. FIRE DEPARTMENT CONNECTION
[Symbol]	PROP. POST INDICATOR VALVE
[Symbol]	PROP. HOSE LAY
[Symbol]	EX. PROP. SANITARY SEWER MANHOLE
[Symbol]	EX. PROP. SANITARY SEWER CLEANOUT
[Symbol]	EX. STORM SEWER MANHOLE
[Symbol]	PROP. STORM SEWER CURB INLET
[Symbol]	EX. PROP. LIGHT POLE
[Symbol]	PROPOSED PUBLIC ACCESS EASEMENT
[Symbol]	PROPOSED UTILITY EASEMENT



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WFAC Black Box Addition PKG 1



CLIENT	Alamo Colleges
DATE	2024/06/12
PROJECT NUMBER	230462

No.	Description	Date
1	ADDENDUM 1	08/05/2024

ISSUE FOR PERMIT

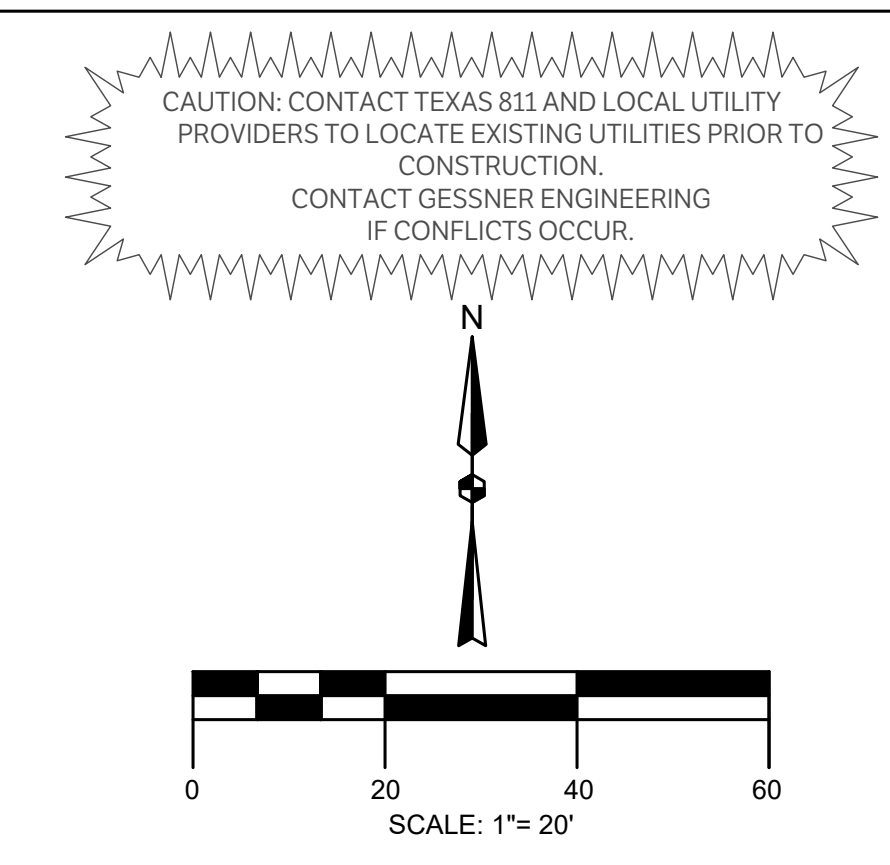
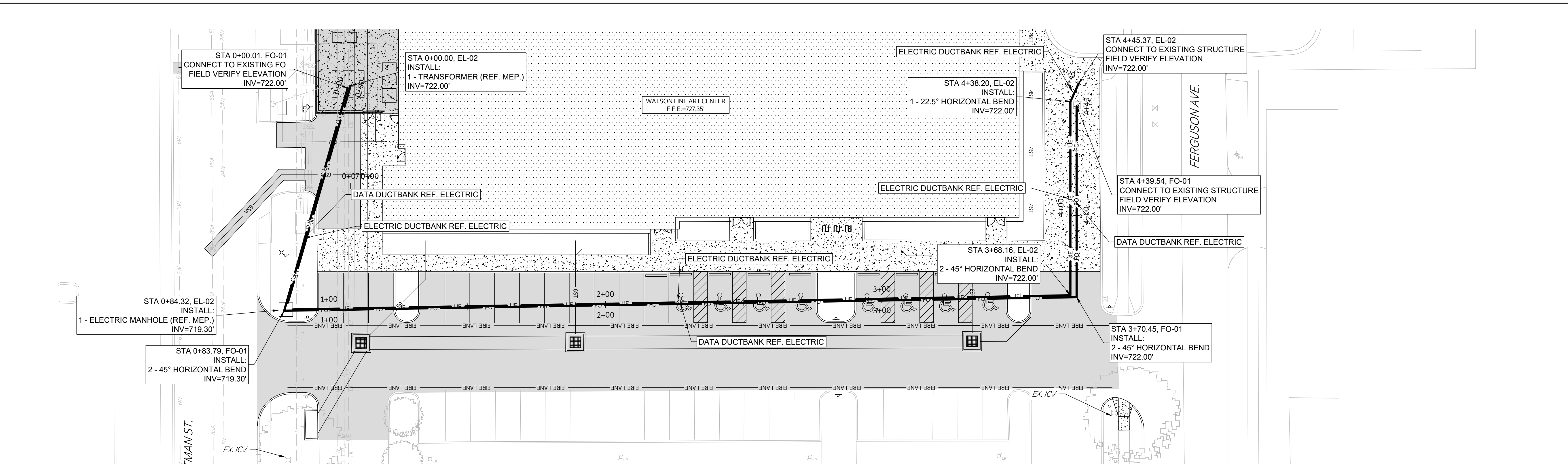
BUILDING NUMBER

OVERALL UTILITY

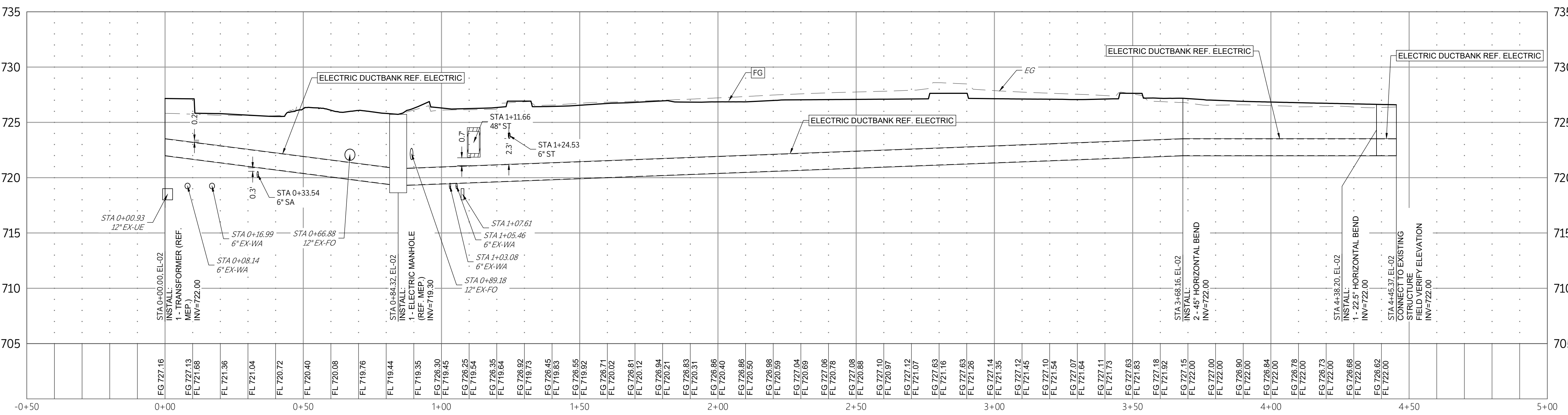
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CHECKED BY: SH & AL
 DRAWN BY: JC

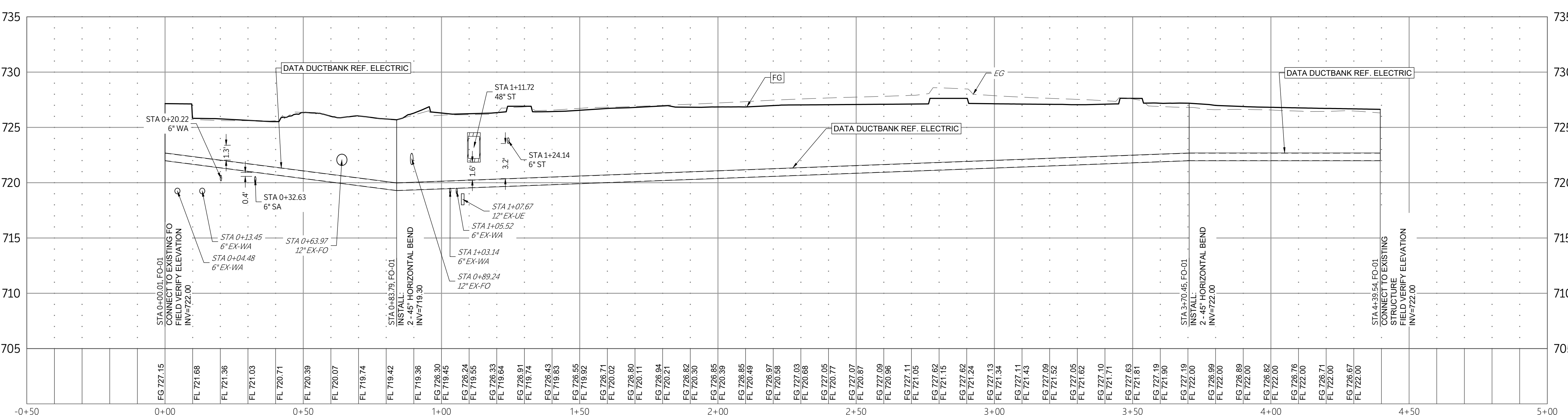
ISSUE FOR CONSTRUCTION



NOTE:
CONTRACTOR TO FIELD VERIFY EXISTING
UTILITY INVERTS PRIOR TO CONSTRUCTION



EL-02
SCALE: 1"=20' H, 1"=5' V



FO-01
SCALE: 1"=20' H, 1"=5' V

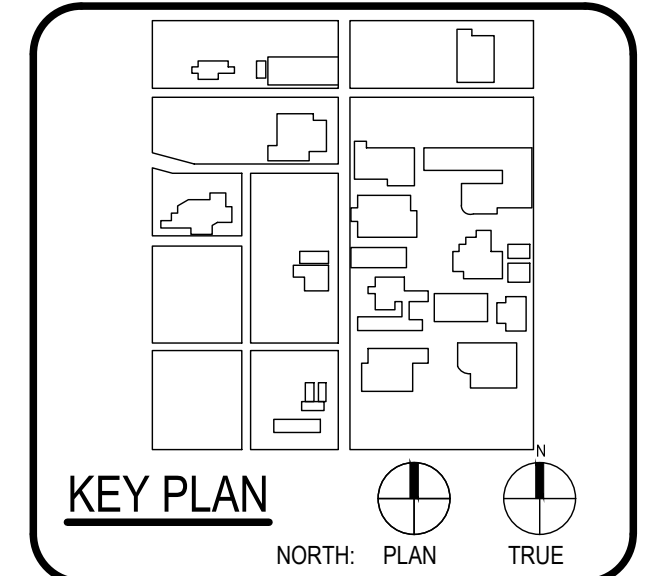
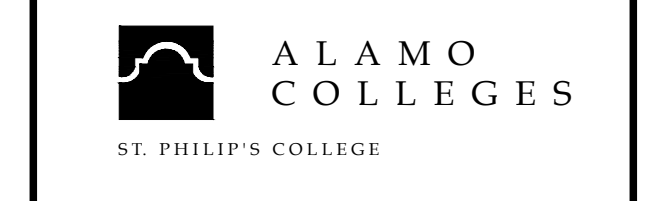
LEGEND

- PROPOSED ASPHALT PAVEMENT
- PROPOSED STRUCTURAL PAVEMENT
- PROPOSED 4" CONCRETE SIDEWALK
- PROPOSED BUILDING
- EXISTING PAVEMENT EDGE
- PROPERTY LINE
- EXISTING EASEMENT
- PROPOSED EASEMENT
- EXISTING CONTOURS
- PROPOSED CONTOURS
- EX. | PROP. STORM LINE
- EX. | PROP. WATER LINE
- EX. | PROP. SANITARY SEWER LINE
- EXISTING THERMALS
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- PROP. FIRE DEPARTMENT CONNECTION
- PROP. POST INDICATOR VALVE
- PROP. HOSE LAY
- EX. | PROP. SANITARY SEWER MANHOLE
- EX. | PROP. SANITARY SEWER CLEANOUT
- EX. STORM SEWER MANHOLE
- PROP. STORM SEWER CURB INLET
- EX. | PROP. LIGHT POLE
- PAE PROPOSED PUBLIC ACCESS EASEMENT
- PUE PROPOSED UTILITY EASEMENT



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TX Firm BR 1608

WFAC Black Box Addition PKG 1



STATE OF TEXAS
ANDREW A. LANGE
118770
06/14/2024

CLIENT		PROJECT NUMBER	
Alamo Colleges		230462	
DATE		2024/06/12	
DRAWING HISTORY			
No.	Description	Date	

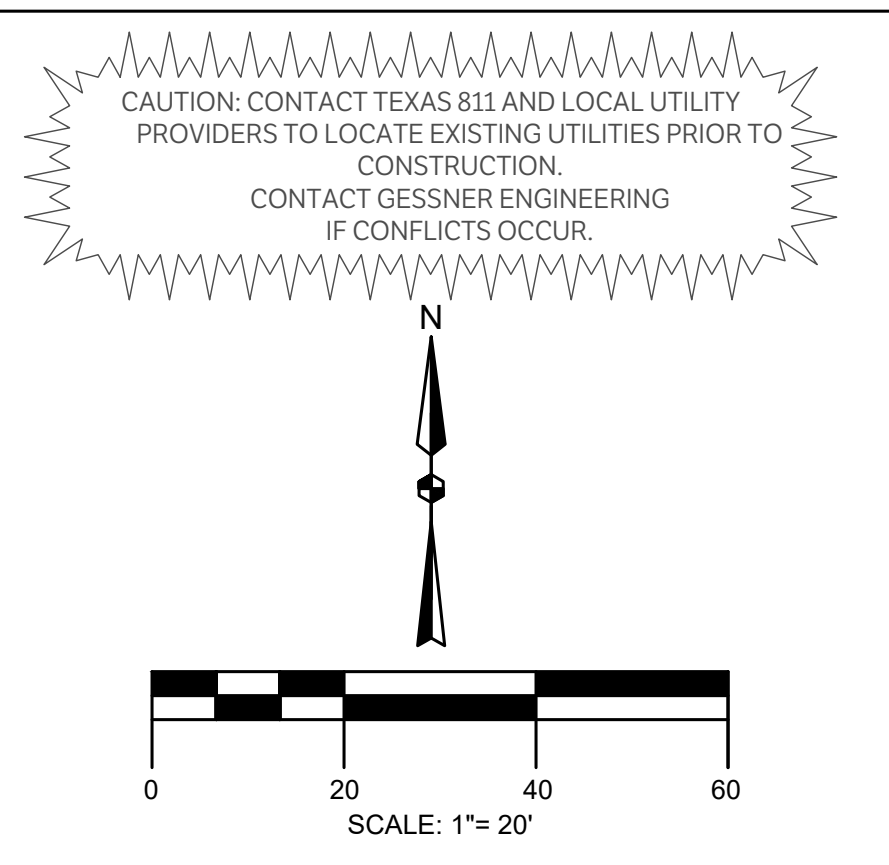
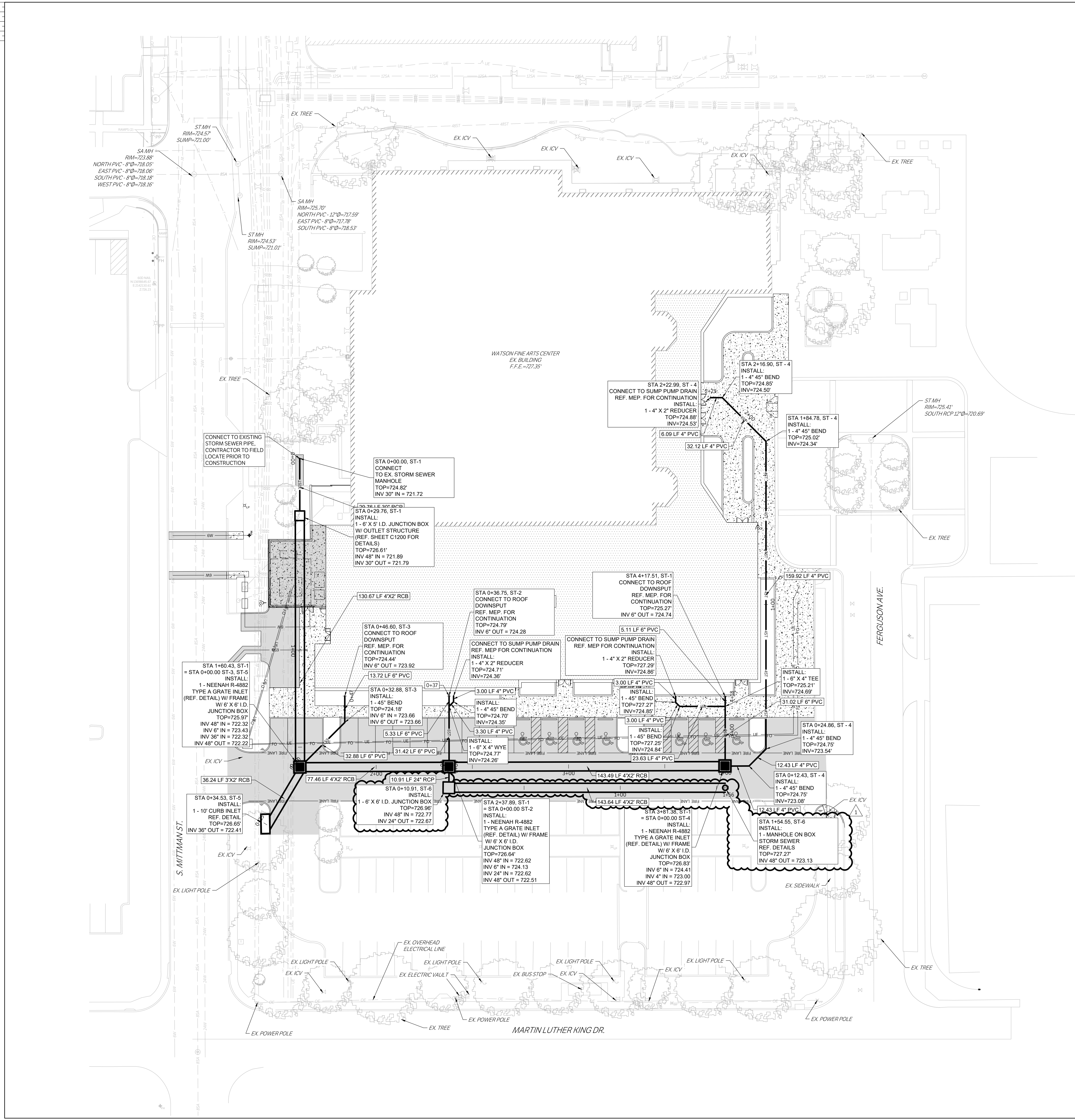
ISSUE FOR CONSTRUCTION
BUILDING NUMBER

ELEC. & COMNS
PLAN & PROFILES

C700

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ISSUE FOR PERMIT



LEGEND

[Symbol]	PROPOSED ASPHALT PAVEMENT
[Symbol]	PROPOSED STRUCTURAL PAVEMENT
[Symbol]	PROPOSED 4" CONCRETE SIDEWALK
[Symbol]	PROPOSED BUILDING
[Symbol]	EXISTING PAVEMENT EDGE
[Symbol]	PROPERTY LINE
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[Symbol]	PROPOSED PUBLIC ACCESS EASEMENT
[Symbol]	PROPOSED UTILITY EASEMENT

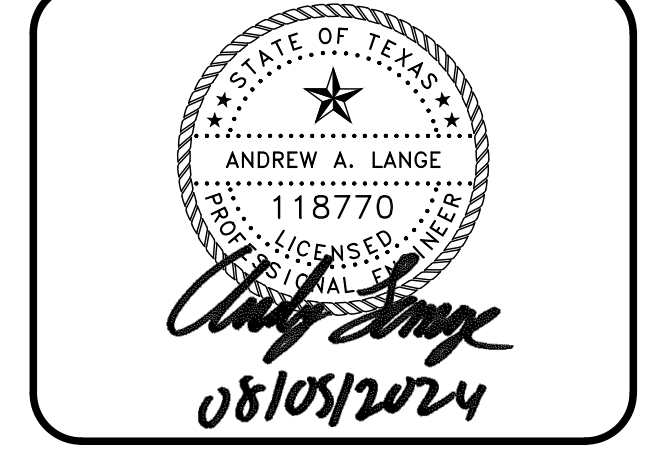
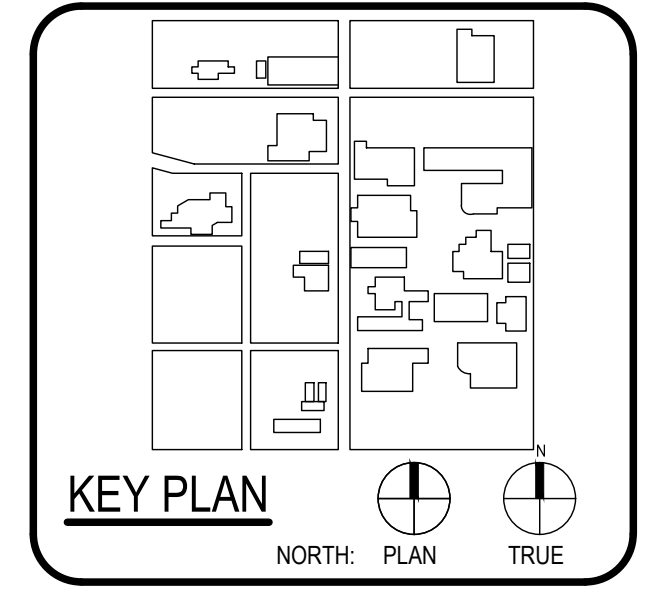
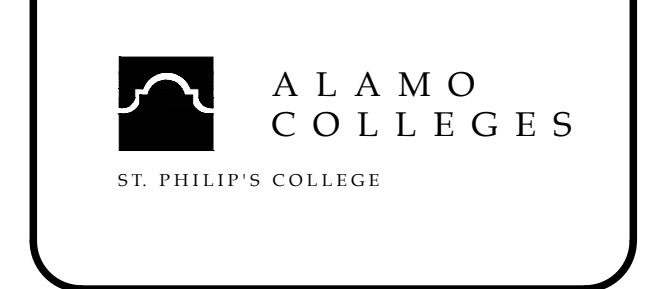


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601 N.W. Loop 410, Suite 400
San Antonio, TX 78216
210-829-0123 P
210-829-0578 F
TX Firm BR 1608

WFAC Black Box Addition PKG 1

600 S Alhambra St.
San Antonio, TX 78203

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CLIENT: Alamo Colleges		
DATE: 2024/06/12	PROJECT NUMBER: 230462	
No.	Description	Date
1	ADDENDUM 1	08/05/2024

ISSUE FOR PERMIT

BUILDING NUMBER

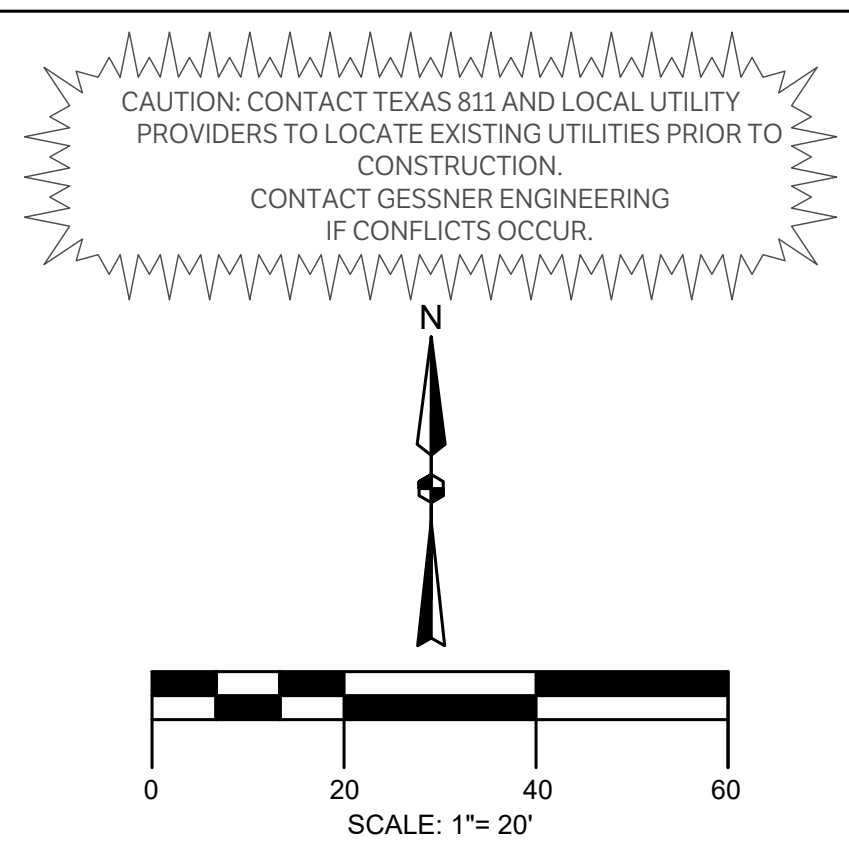
STORM PLAN

C800

CHECKED BY: SH & AL
DRAWN BY: JC

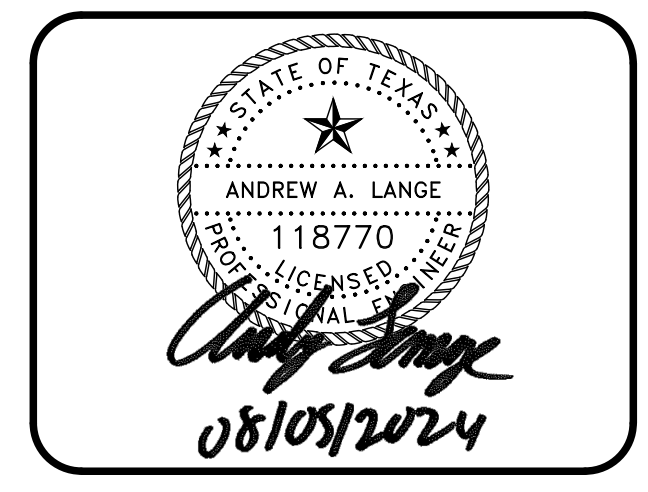
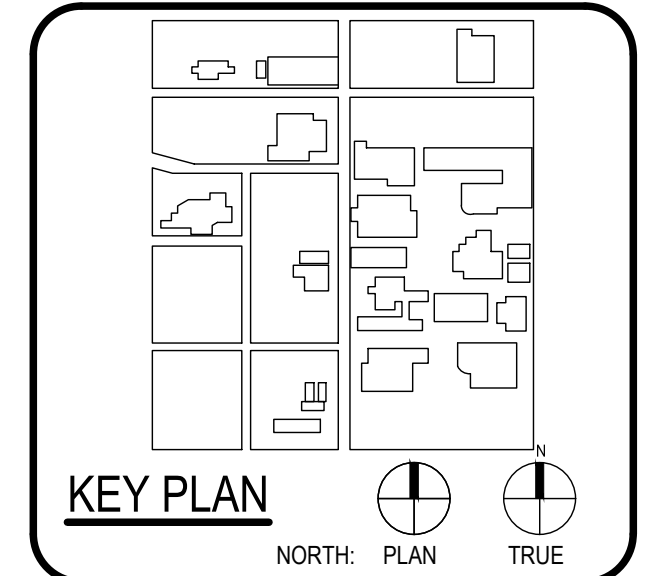
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SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608	
ARCHITECT	BA & ARCHITECTS
DESIGNER	BA & ARCHITECTS
LANDSCAPE	BA & ARCHITECTS
STRUCTURAL	BA & ARCHITECTS
MECHANICAL/ELECTRICAL/PLUMBING	BA & ARCHITECTS
TRAFFIC	BA & ARCHITECTS
PROVIDER	BA & ARCHITECTS
MEASURER	BA & ARCHITECTS
DATE	08/05/2024

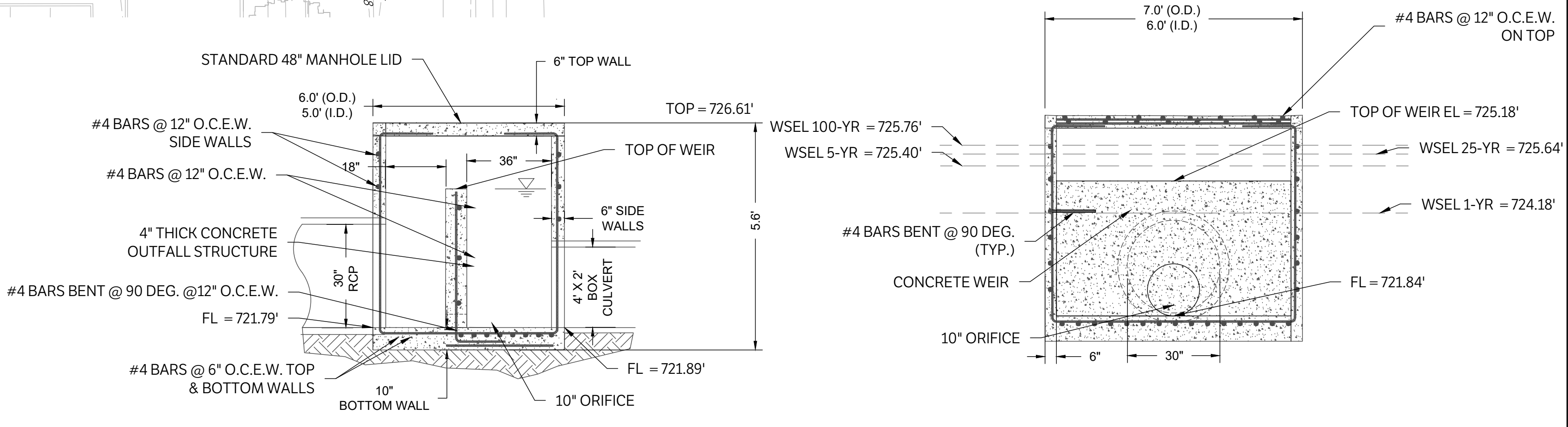
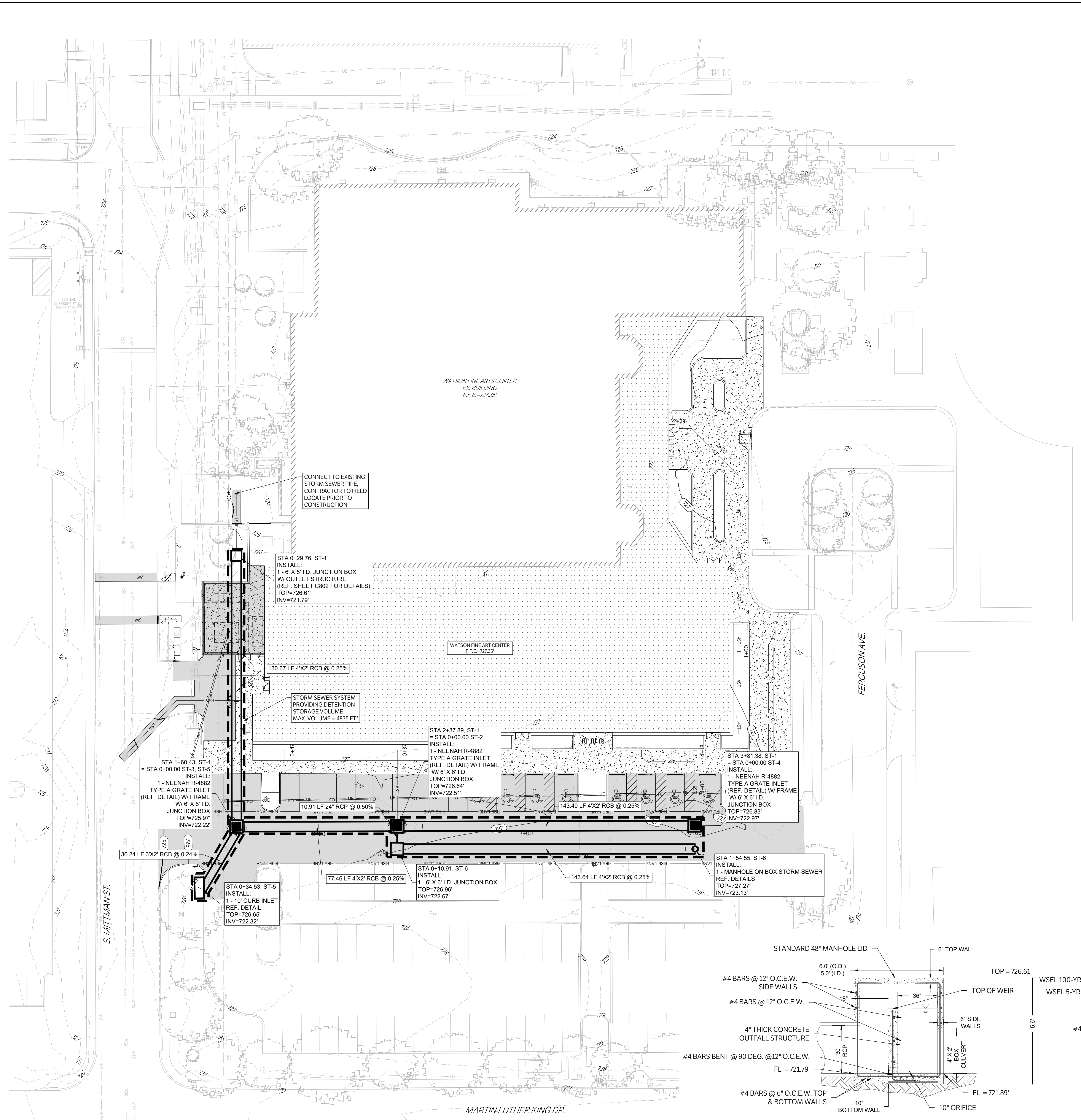
WFAC Black Box Addition PKG 1



CLIENT	Alamo Colleges	
DATE	2024/06/12	
PROJECT NUMBER	230462	
DRAWING HISTORY		
No.	Description	Date
1	ADDENDUM 1	08/05/2024

ISSUE FOR PERMIT

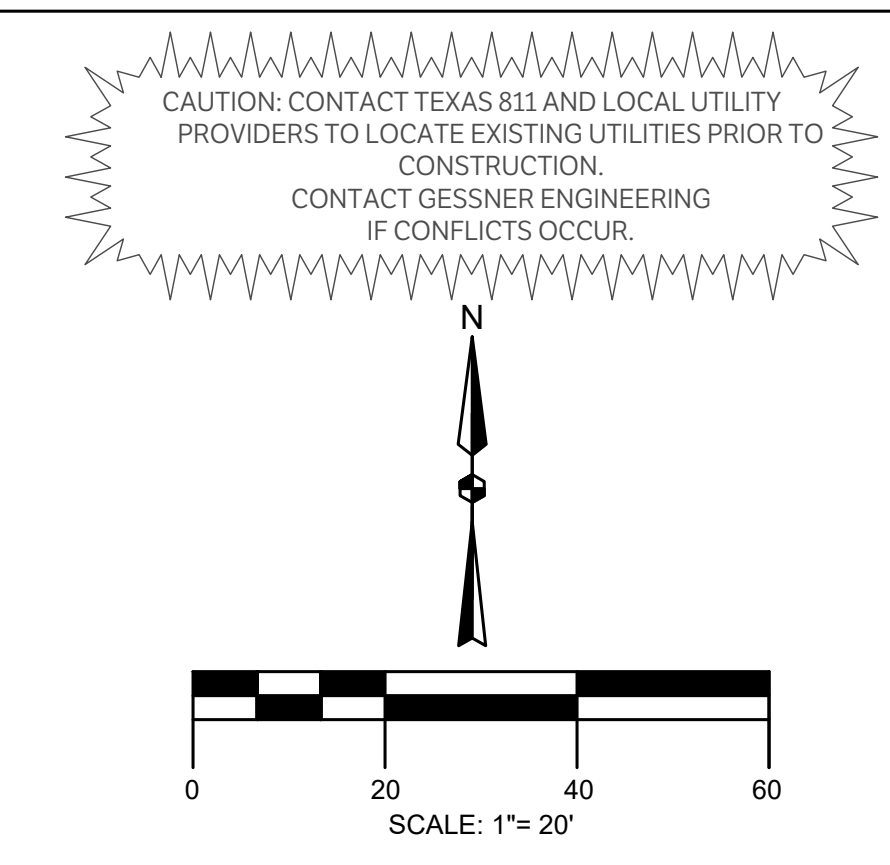
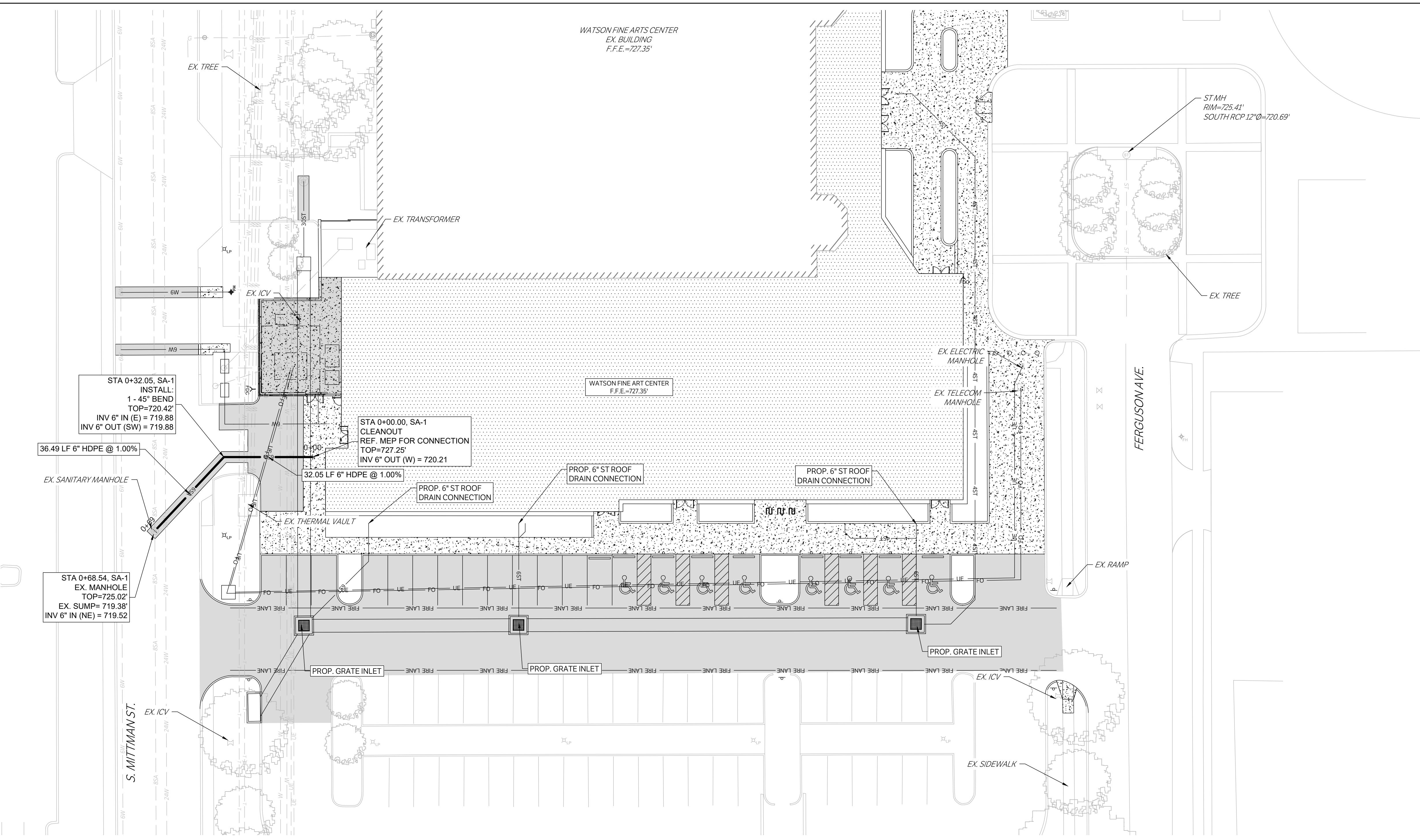
DETENTION PLAN
C802



UNDERGROUND DETENTION OUTLET STRUCTURE
N.T.S.
NOTES:
1. ALL REINFORCEMENT BARS TO HAVE 2" OF CLEARANCE

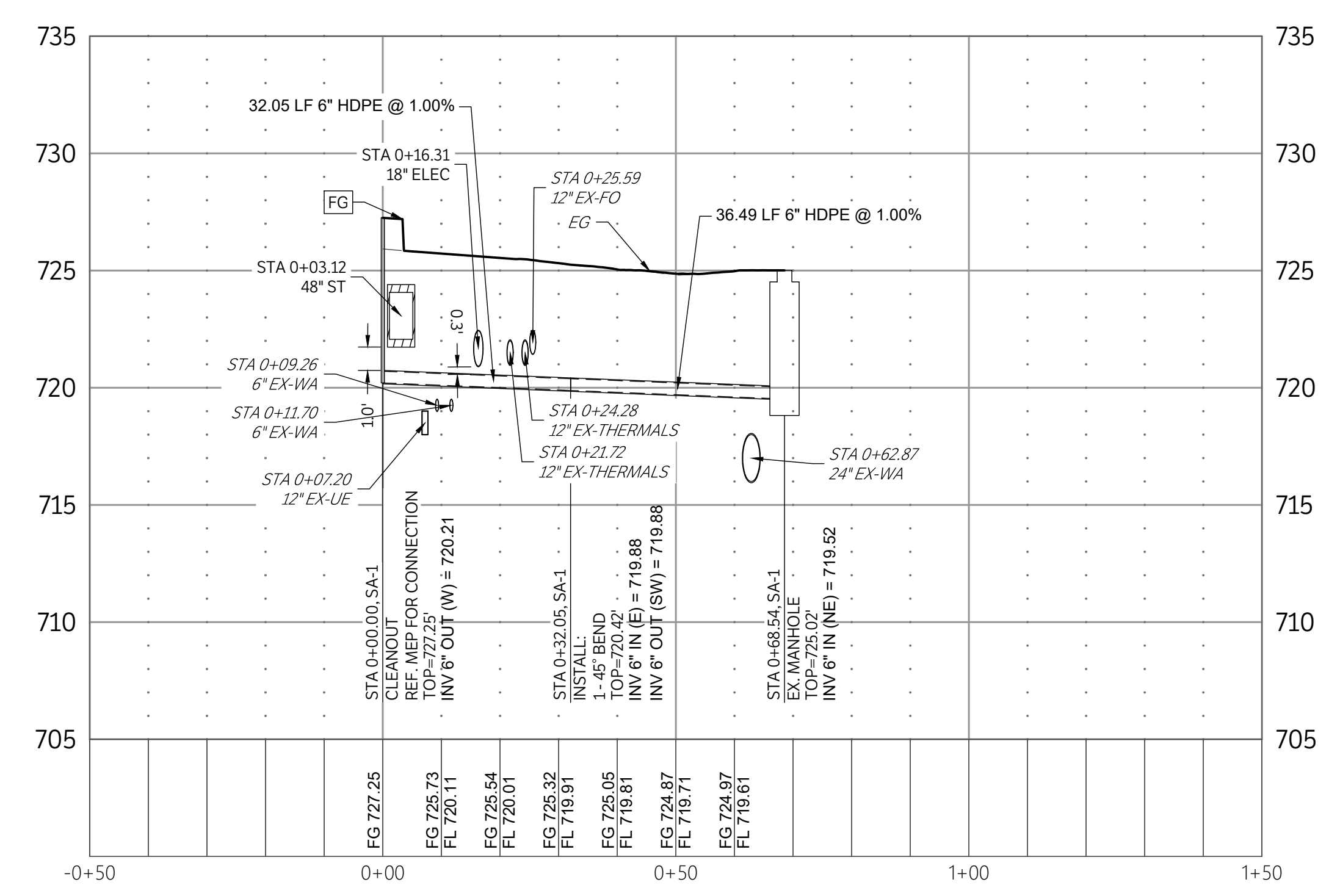
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DRAWN BY: JC

ISSUE FOR CONSTRUCTION



NOTE:
CONTRACTOR TO FIELD VERIFY EXISTING
UTILITY INVERTS PRIOR TO CONSTRUCTION

LEGEND	
	PROPOSED ASPHALT PAVEMENT
	PROPOSED STRUCTURAL PAVEMENT
	PROPOSED BUILDING
	EXISTING PAVEMENT EDGE
	PROPERTY LINE
	EXISTING EASEMENT
	PROPOSED EASEMENT
	EXISTING CONTOURS
	PROPOSED CONTOURS
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	PROP. STORM SEWER CURB INLET
	EX. PROP. LIGHT POLE
	PROPOSED PUBLIC ACCESS EASEMENT
	PROPOSED UTILITY EASEMENT

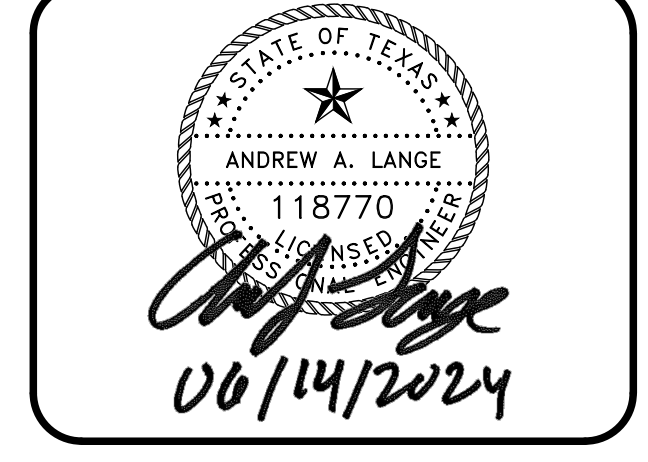
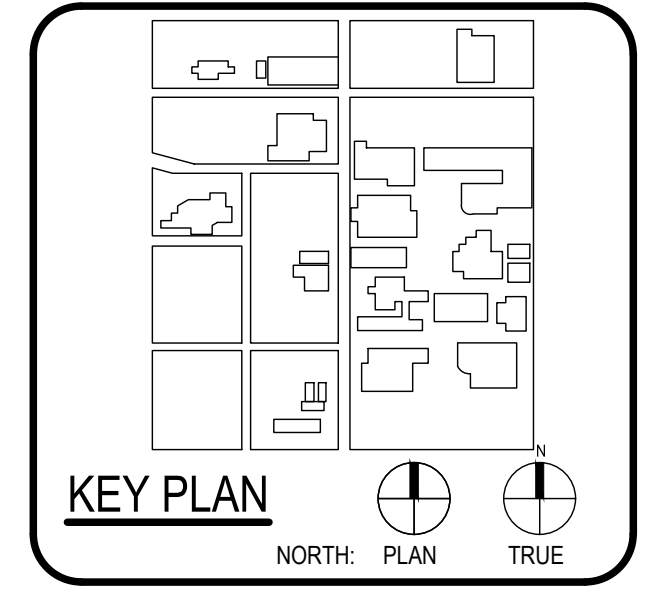
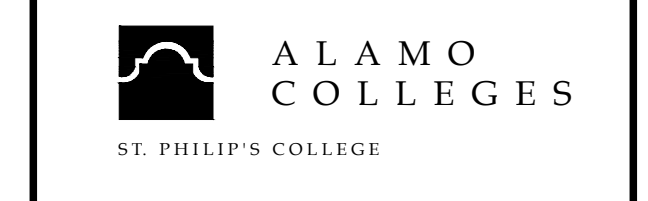


SA-1
SCALE: 1"=20' H, 1"=5' V



ARCHITECT	PBK Architects, Inc.
SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608	
ASSOCIATE ARCHITECT	BA ARCHITECTS
1311 S. W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608	
DESIGNER	BA ARCHITECTS
1311 S. W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608	
LANDSCAPE ARCHITECT	LUNY & HARRIS ENGINEERING
1311 S. W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608	
ENGINEER	BA ARCHITECTS
1311 S. W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608	

WFAC Black Box Addition PKG 1

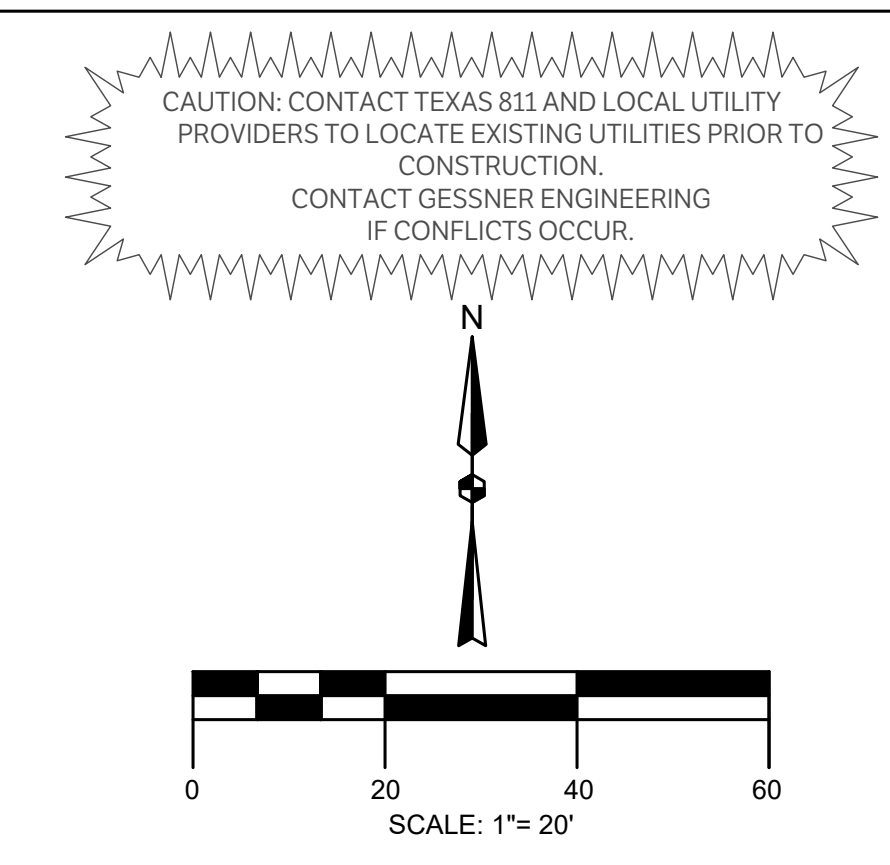
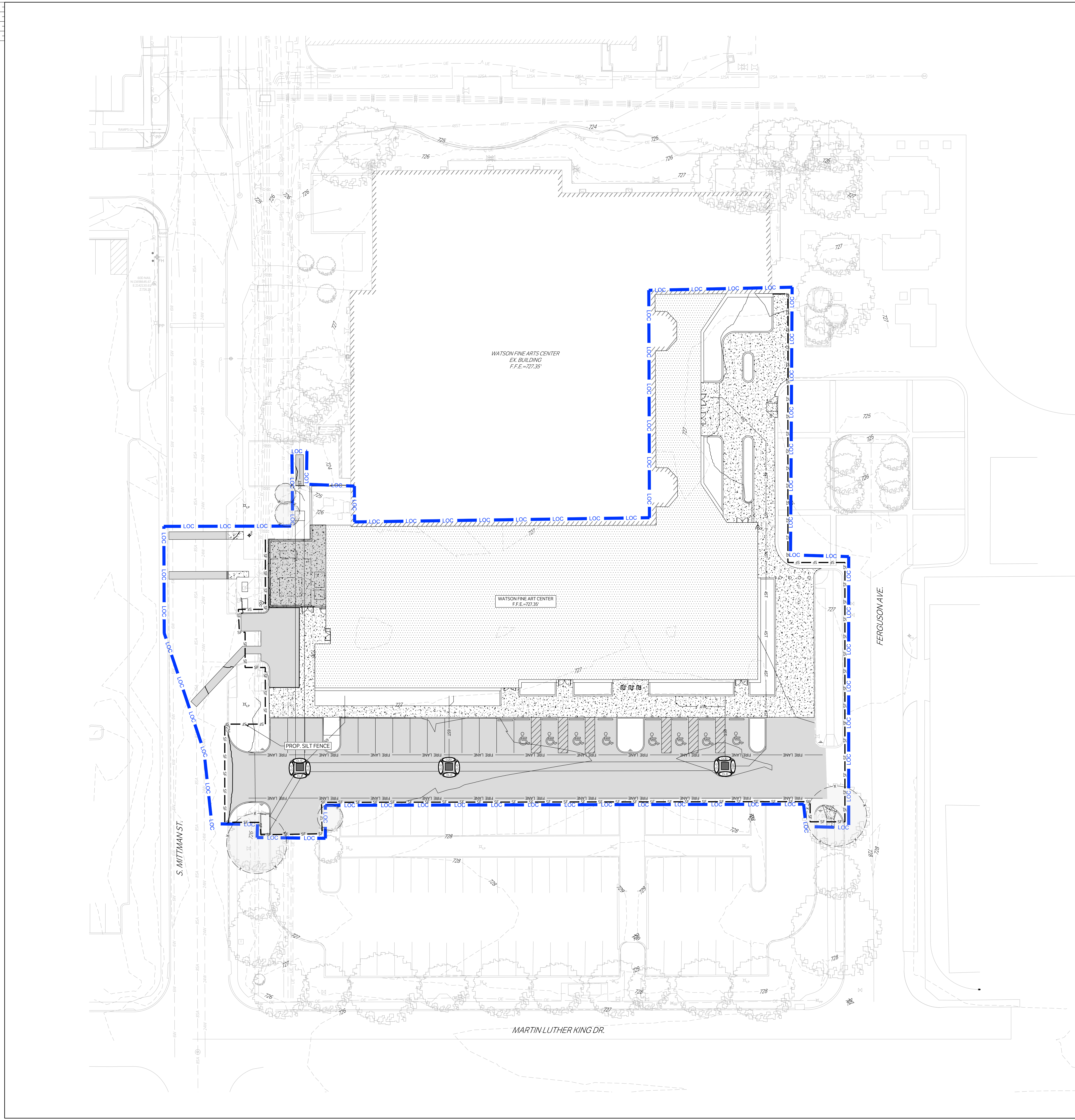


CLIENT		
Alamo Colleges	PROJECT NUMBER	
DATE	230462	
2024/06/12		
DRAWING HISTORY		
No.	Description	Date

ISSUE FOR CONSTRUCTION
BUILDING NUMBER
SANITARY PLAN & PROFILES

C900

ISSUE FOR CONSTRUCTION



LEGEND

	CONSTRUCTION ENTRANCE, INSTALLED PER DETAIL
	PROPERTY LINE
	EXISTING CONTOURS
	PROPOSED CONTOURS
	EXISTING FLOW PATH
	PROPOSED FLOW PATH
	SILT FENCE, INSTALLED PER DETAIL
	PROPOSED DAM EROSION CONTROL, LOG-18"
	PROPOSED ROCK FILTER DAM TYPE 3
	PROP. TREE PROTECTION FENCE
	PROP. TREE PROTECTION FENCE

EROSION CONTROL NOTES:
OWNER INFORMATION: ST PHILLIPS COLLEGE
PROJECT NAME: ST PHILLIPS COLLEGE WATSON FINE ARTS CENTER BLACK BOX ADDITION
PROJECT LOCATION: 600 S MITTMAN ST. SAN ANTONIO, TX 78203

LATITUDE: 29°24'49.57"N
LONGITUDE: 98°27'14.61"W
TOTAL SITE AREA IS: 1.89 ACRES
TOTAL AREA OF SITE EXPECTED TO BE DISTURBED: 1.35 ACRES

EXISTING SITE CONDITIONS
LAND USE: HIGHER EDUCATION
LAND COVER: ~90% IMPERVIOUS
RECEIVING WATERS: SALADO CREEK
SEGMENT NO. OF CLASSIFIED WATER BODY: SALADO CREEK
BASIN NAME: SAN ANTONIO RIVER

SOIL INFORMATION
HYDROLOGIC SOIL GROUP: D

POST DEVELOPED SITE CONDITIONS
LAND USE: HIGHER EDUCATION
ACADEMIC BLDG

NATURE OF ACTIVITIES
ACADEMIC BLDG

- SEQUENCE OF MAJOR ACTIVITIES**
1. INSTALL SILT FENCE AT STOCK PILE AREAS
 2. CLEARING, GRADING, GENERAL CONSTRUCTION SITE
 3. INSTALL FILTER ELEMENTS IMMEDIATELY AFTER DISTURBANCE AND/OR GRADING OPERATIONS.
 4. AFTER ESTABLISHMENT OF GRASS, REMOVE ALL TEMPORARY EROSION CONTROL.
 5. SEED ALL AREAS NOT HAVING PERMANENT GRASS COVERAGE AFTER APPROVAL BY COUNTY INSPECTOR.

- GENERAL EROSION CONTROL NOTES**
1. ALL UTILITIES AND SERVICE LINES SHOWN ARE TAKEN FROM RECORD INFORMATION SUPPLIED BY THE UTILITY OWNER OR HORIZONTALLY LOCATED BY INDEPENDENT LOCATORS. CONTRACTOR IS RESPONSIBLE TO REPORT ANY CONFLICTS BETWEEN PLAN AND ACTUAL CONDITIONS PRIOR TO CONSTRUCTION. OWNER AND ENGINEER SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF INFORMATION OR DATA RELIED ON TO DEPICT UNDERGROUND FACILITIES. CONTRACTOR IS TO CONTACT OWNERS OF ALL UTILITIES AND SERVICE LINES WITHIN THE PROJECT AREA AND NOTIFY OF INTENT AT LEAST 1 WEEK PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH FACILITY OWNERS. CONTRACTOR IS TO VERIFY THE EXACT LOCATION AND VERTICAL POSITIONING OF ALL PIPELINES, EXISTING UTILITIES, AND SERVICE LINES WITHIN THE PROJECT AREA WHETHER SHOWN ON THE PLANS OR NOT. AT LEAST 48 HOURS PRIOR TO CONSTRUCTION CONTRACTOR IS TO MAINTAIN STRUCTURAL INTEGRITY OF ALL PIPELINES, ELECTRIC TRANSMISSION POLES AND LINES, PERMANENT AND TEMPORARY UTILITIES. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE DONE TO EXISTING UTILITY FACILITIES, PAVEMENT, ETC. AS A RESULT OF CLEARING/DIRTWORK ACTIVITIES.
 2. CONTRACTOR TO CONTACT TEXAS 811 AND LOCAL UTILITY PROVIDERS TO LOCATE EXISTING UTILITIES PRIOR TO CONSTRUCTION. CONTACT GESSNER ENGINEERING IF CONFLICTS OCCUR.
 3. ALL DISTURBED AREAS NOT TO BE PAVED ARE TO HAVE ESTABLISHMENT OF GRASS.
 4. ALL SWALE AREAS (BOTTOM WIDTHS & SIDE SLOPES) ARE TO BE PREPARED AND HYDROMULCHED FOR PERMANENT ESTABLISHMENT OF VEGETATION. PRIOR TO HYDROMULCHING OPERATIONS, CONTRACTOR TO REPLACE TOPSOIL TO A DEPTH OF 6". TOPSOIL IS TO BE DISKED TO A DEPTH OF AT LEAST 4" AND LIGHTLY COMPACTED. FINAL GRADES WITH ESTABLISHED VEGETATION SHALL BE AS CALLED OUT ON THE GRADING PLAN.
 5. CONTRACTOR IS TO MAINTAIN EROSION CONTROL AT ALL LOCATIONS OF CONSTRUCTION THROUGHOUT DURATION OF THE PROJECT AND UNTIL VEGETATION IS ESTABLISHED. INSURE SEDIMENT IS NOT TRANSPORTED DOWNSTREAM FROM PROJECT VIA GRAVEL FILTER BAGS AND SILT FENCE INSTALLATIONS. IF EXCESSIVE EROSION IS OBSERVED IN THE FIELD, ADDITIONAL EROSION CONTROLS SHALL BE INSTALLED.
 6. CONTRACTOR SHALL NOT ALLOW SEDIMENT TO ENTER THE DOWNSTREAM CHANNEL. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING OF THE DOWNSTREAM CHANNEL AREAS AND RESTORING TO ORIGINAL CONDITION, INCLUDING ESTABLISHMENT OF REVEGETATION SHOULD CONSTRUCTION SEDIMENT BE FOUND OUTSIDE THE LIMITS OF CONSTRUCTION.
 7. THE CONTRACTOR WILL REMOVE ALL EXCESS SOIL FROM CONSTRUCTION VEHICLES PRIOR TO EXITING THE SITE.
 8. THE CONTRACTOR SHALL UNDERTAKE PROPER METHODS TO REDUCE DUST GENERATION FROM THE SITE.
 9. THE CONTRACTOR MUST COMPLY WITH FEDERAL, STATE, AND LOCAL REGULATIONS REGARDING SEDIMENTS AND EROSION CONTROL.
 10. A COPY OF THIS PLAN MUST BE KEPT AT THE CONSTRUCTION FACILITY DURING THE ENTIRE CONSTRUCTION PERIOD.
 11. ALL FINISHED GRADES ARE TO BE HYDRO-MULCHED, SPOT SODDED OR SEEDED AND WATERED UNTIL GROWTH IS ESTABLISHED.
 12. CONTRACTOR IS RESPONSIBLE TO FILE THE NOTICE OF INTENT AND NOTICE OF TERMINATION WITH AUTHORITY HAVING JURISDICTION.

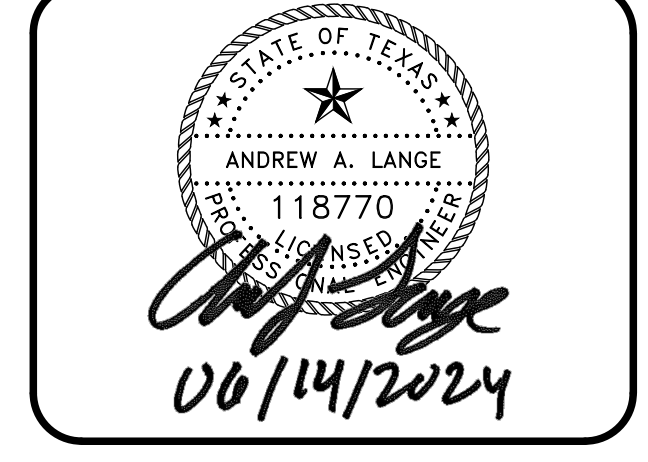
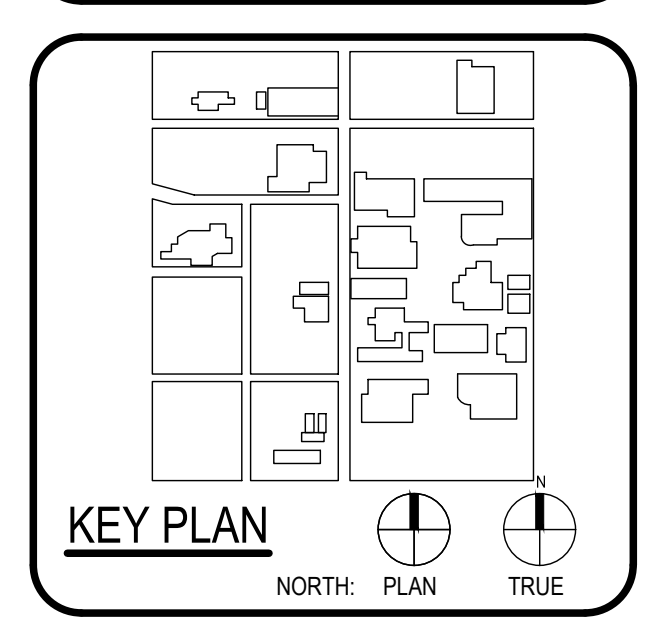
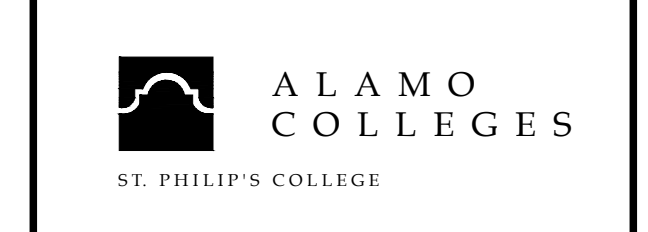


ARCHITECT	PBK Architects, Inc.
601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608	
ASSOCIATE ARCHITECT	BA ARCHITECTS
1711 W. Loop West Suite 100 San Antonio, TX 78201 210-492-9922	
LANDSCAPE ARCHITECT	LANDSCAPE ARCHITECTS
1711 W. Loop West Suite 100 San Antonio, TX 78201 210-492-9922	
ENGINEER	LUNY & HARRIS ENGINEERING
1711 W. Loop West Suite 100 San Antonio, TX 78201 210-492-9922	
PROF. TREE SPECIALIST	PROF. TREE SPECIALISTS
1711 W. Loop West Suite 100 San Antonio, TX 78201 210-492-9922	

WFAC Black Box Addition PKG 1

600 S Miltman St.
San Antonio, TX 78203

ISSUE FOR CONSTRUCTION



CLIENT		
Alamo Colleges		
DATE	PROJECT NUMBER	
2024/06/12	230462	
DRAWING HISTORY		
No.	Description	Date

ISSUE FOR CONSTRUCTION

BUILDING NUMBER

EROSION CONTROL

C1100

GENERAL NOTES

1. NEW PIPE TO BE SET FLUSH WITH INSIDE WALL OF STRUCTURE.

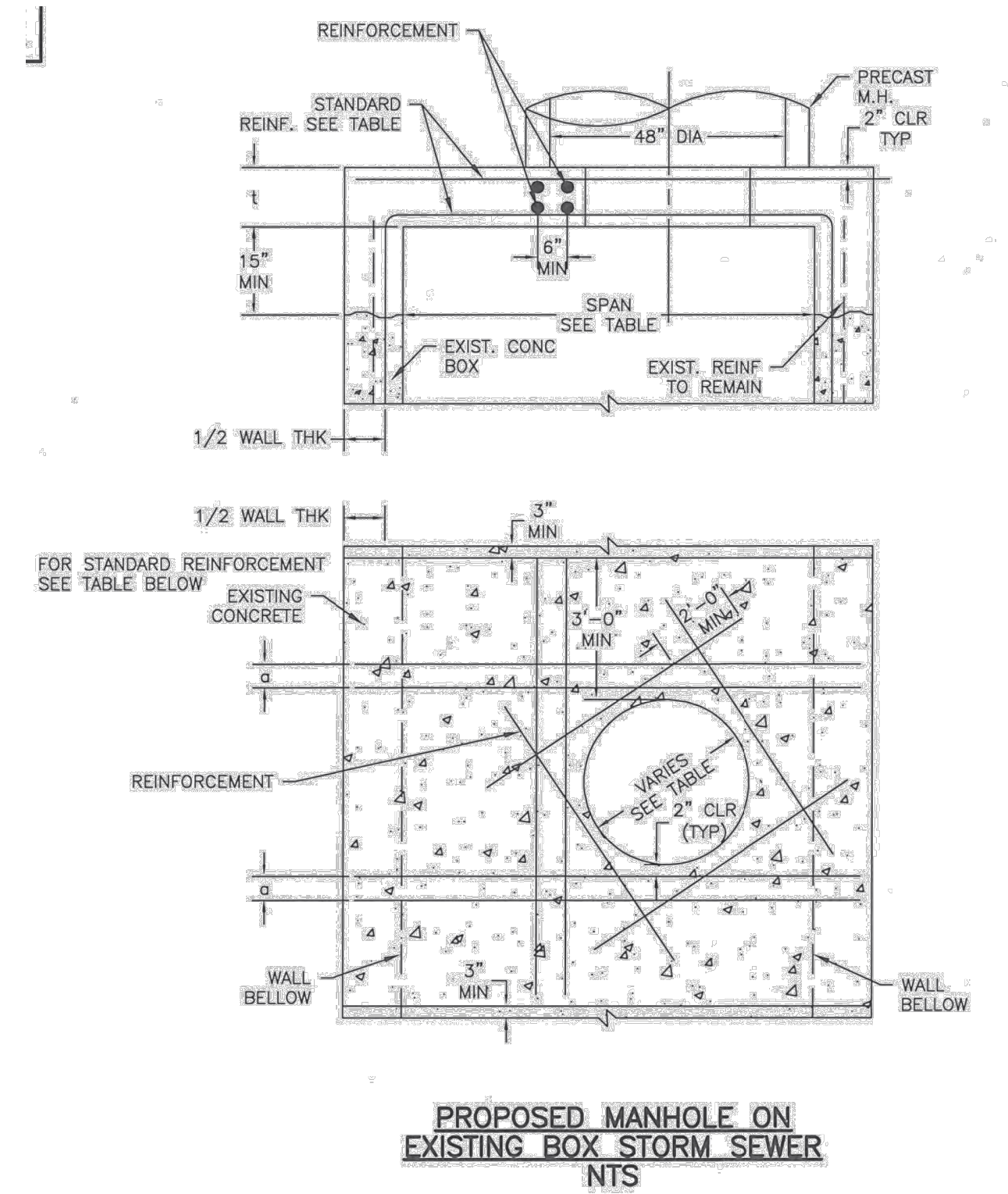
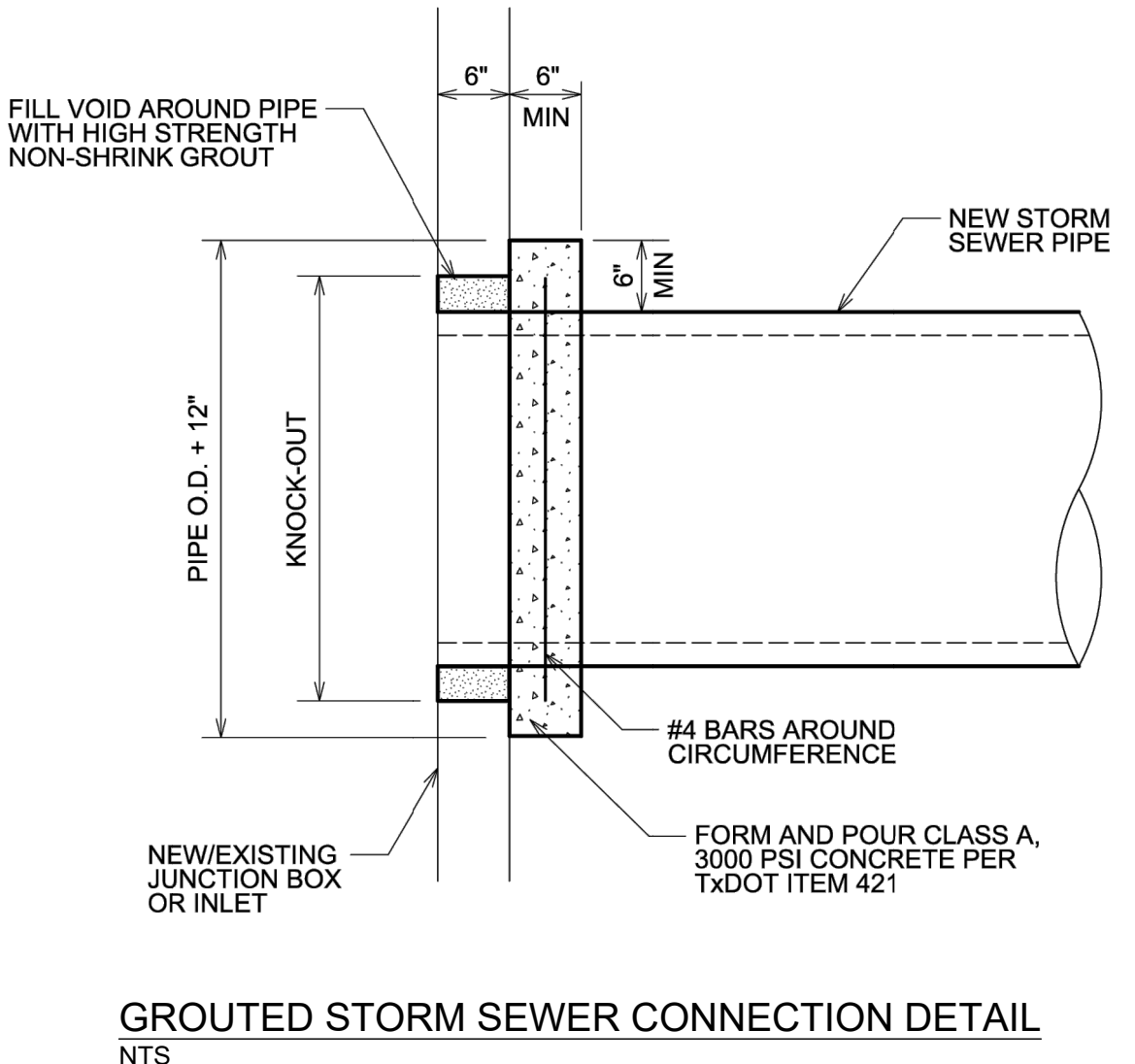
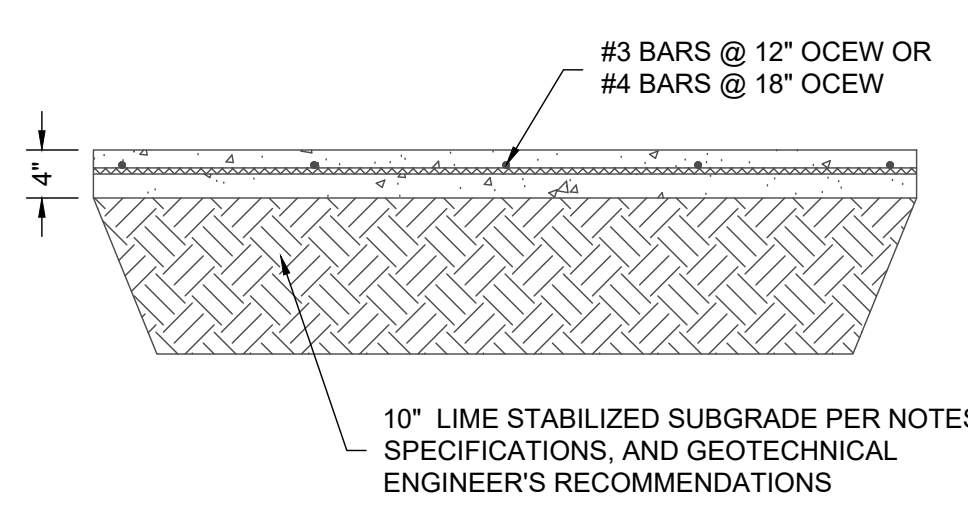
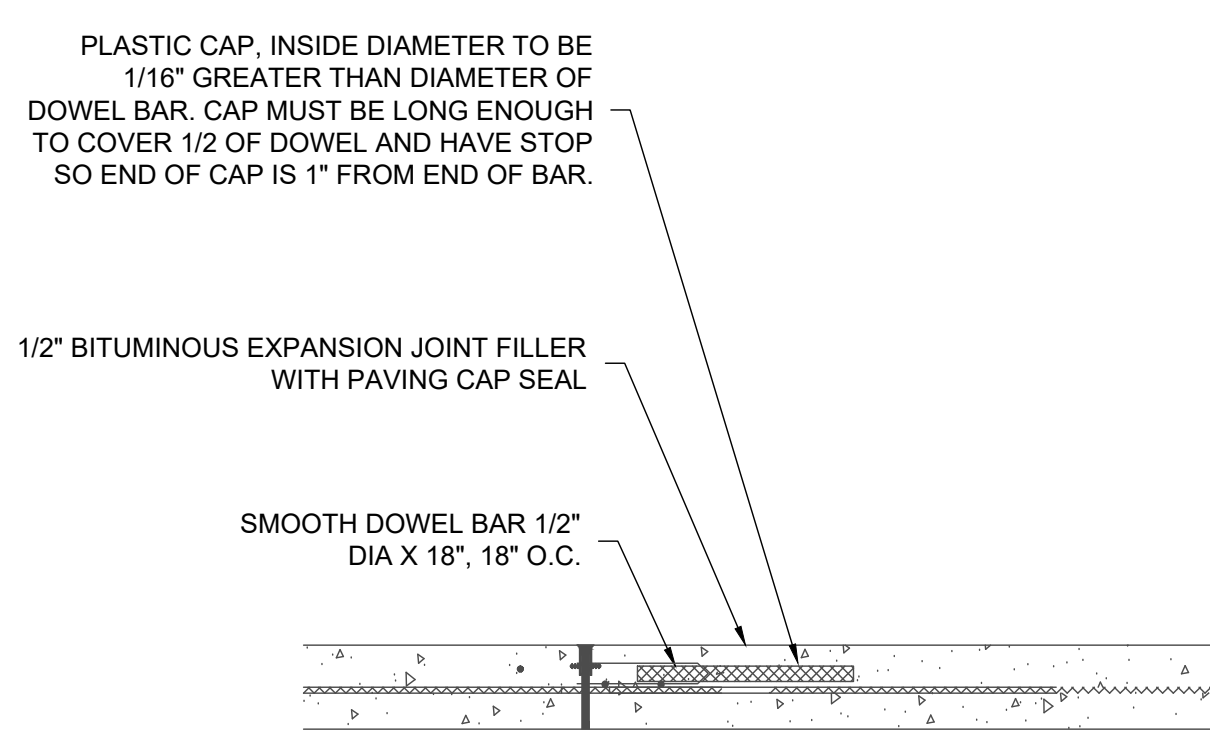
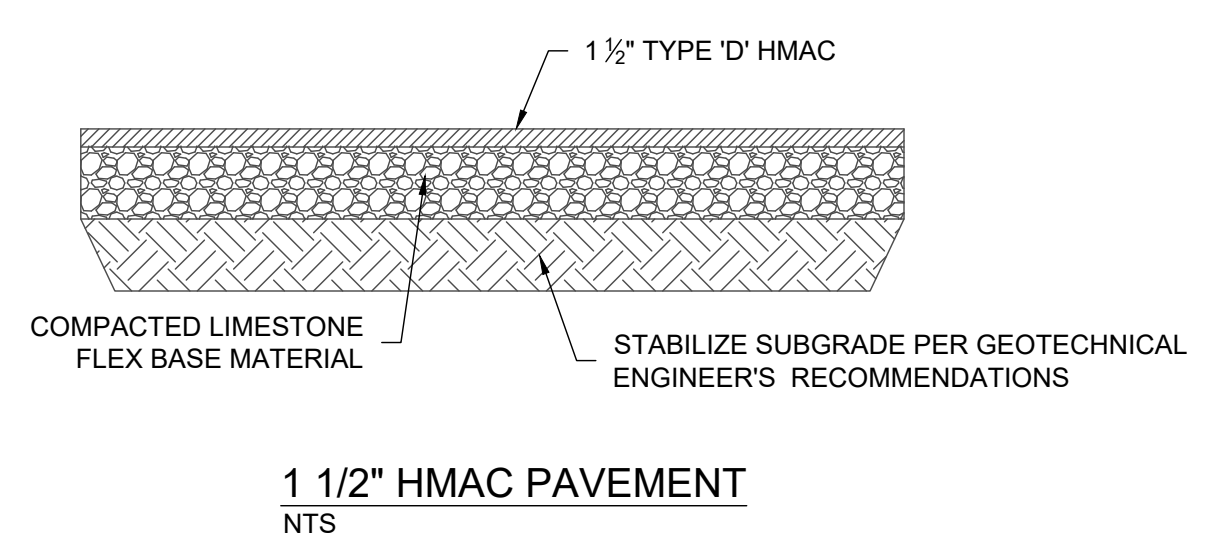
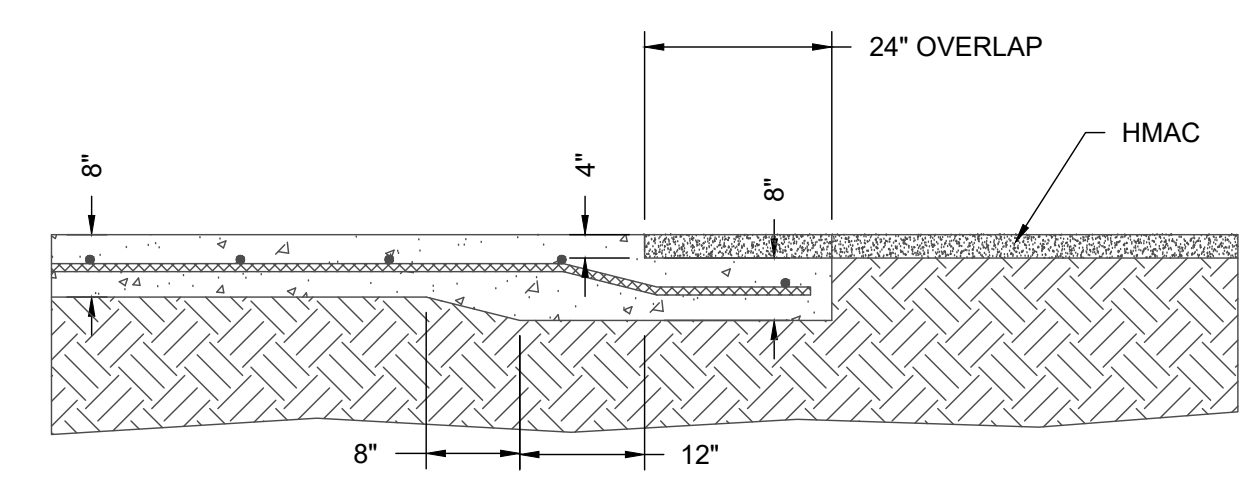
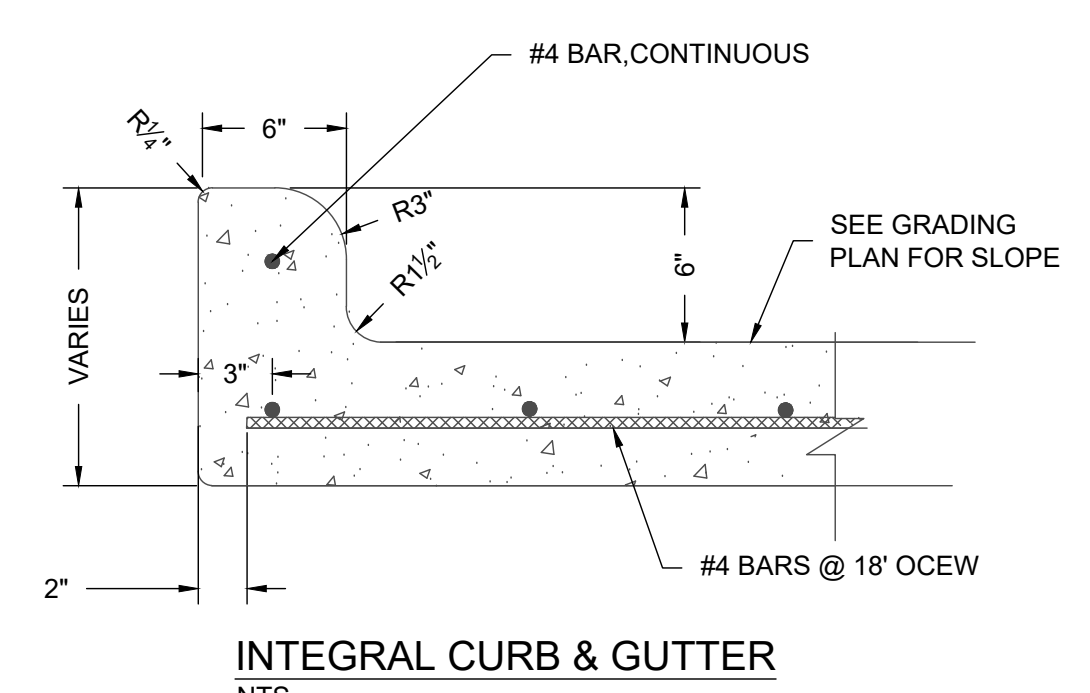


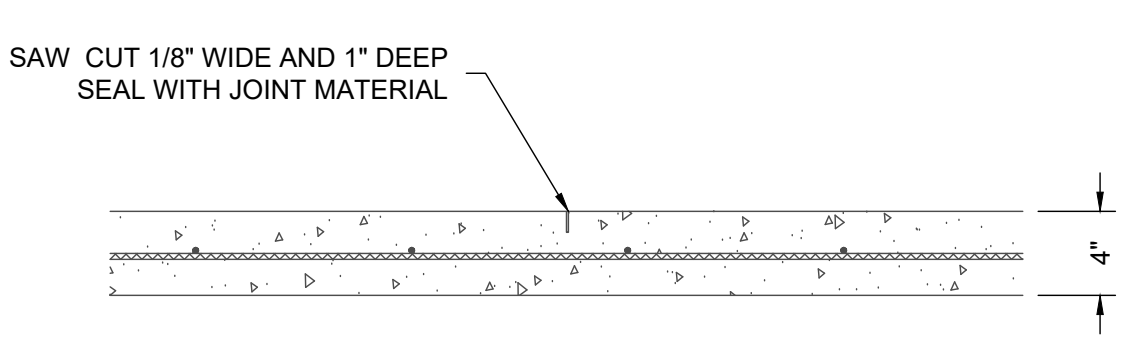
TABLE
SEWER SIZE VS. OPENING

SEWER SIZE (INCHES)	MANHOLE BASE DIAMETER
48"	36"
54"	36"
60"	42"
66" OR GREATER	48"



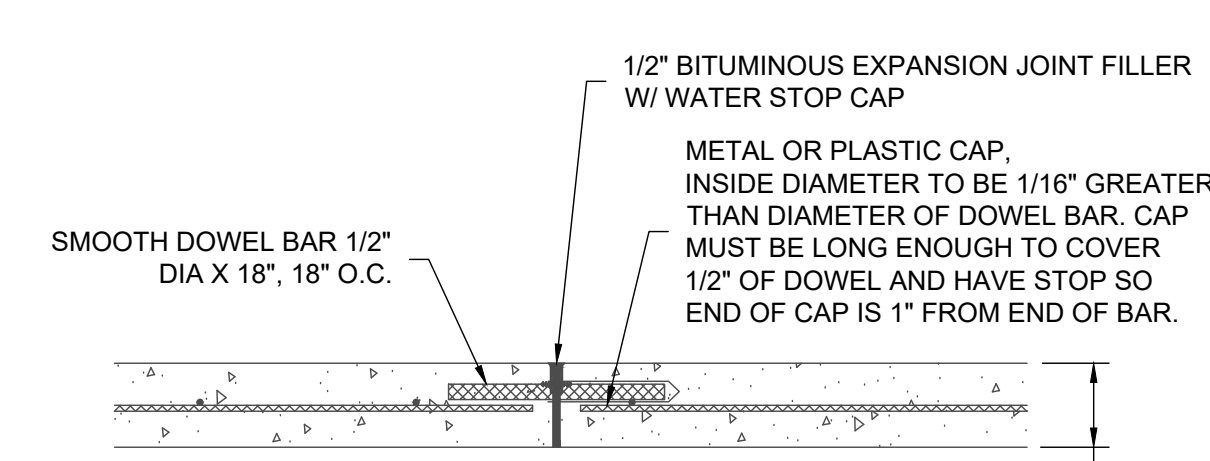
- NOTES:**
- SUBGRADE STABILIZATION SHALL BE PER GEOTECHNICAL RECOMMENDATIONS AND LIME/CEMENT SERIES BASED ON ACTUAL SUBGRADE CONDITIONS.
 - SAW CUT OPERATIONS SHALL BEGIN AS SOON AS POSSIBLE AFTER CONCRETE PLACEMENT.
 - SEAL ALL EXPANSION JOINTS WITH SEAL CAP AND CONTROL JOINTS WITH SELF LEVELING JOINT SEALANT MATERIAL PER SPECIFICATIONS. USE SELF LEVELING JOINT SEALANT ADJACENT TO EXISTING PAVEMENT.

SIDEWALK EXPANSION JOINT
NTS

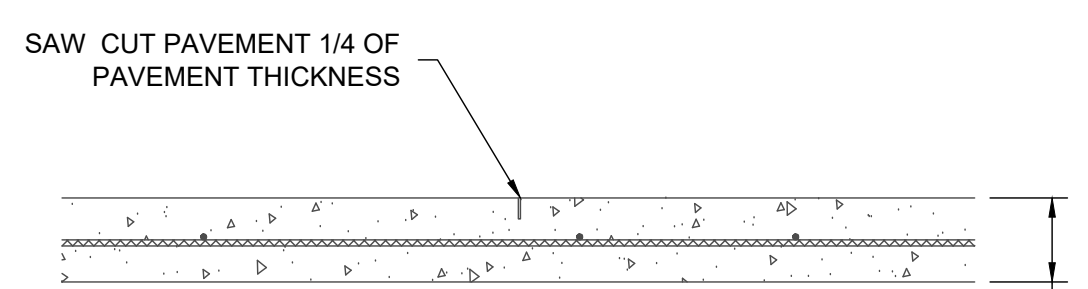


NOTE:
SIDEWALK JOINT SPACING PER LANDSCAPE ARCHITECT OR JOINT PLAN. IF NOT SPECIFIED, SPACING SHALL BE EQUAL TO SIDEWALK WIDTH WITH A MAXIMUM SPACING OF 8-FOOT.

SIDEWALK CONTRACTION JOINT
NTS

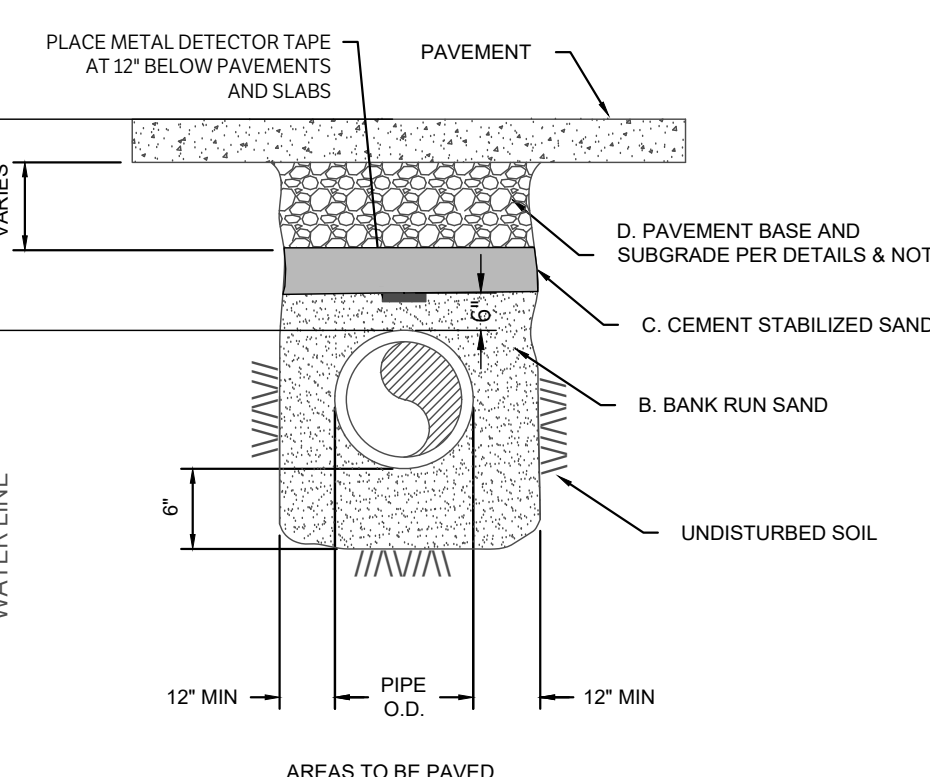
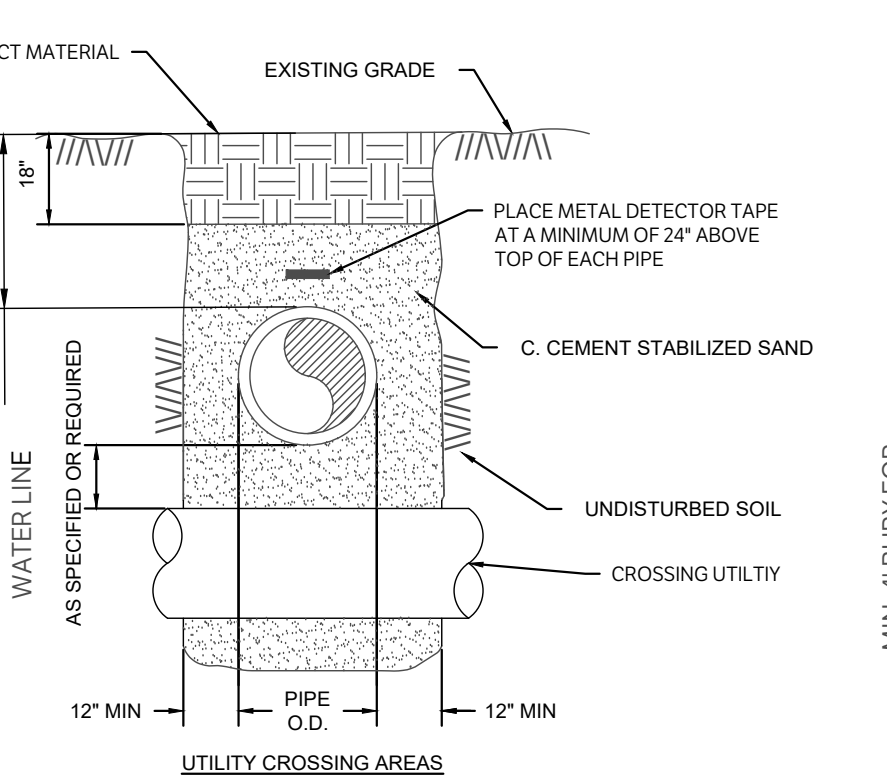
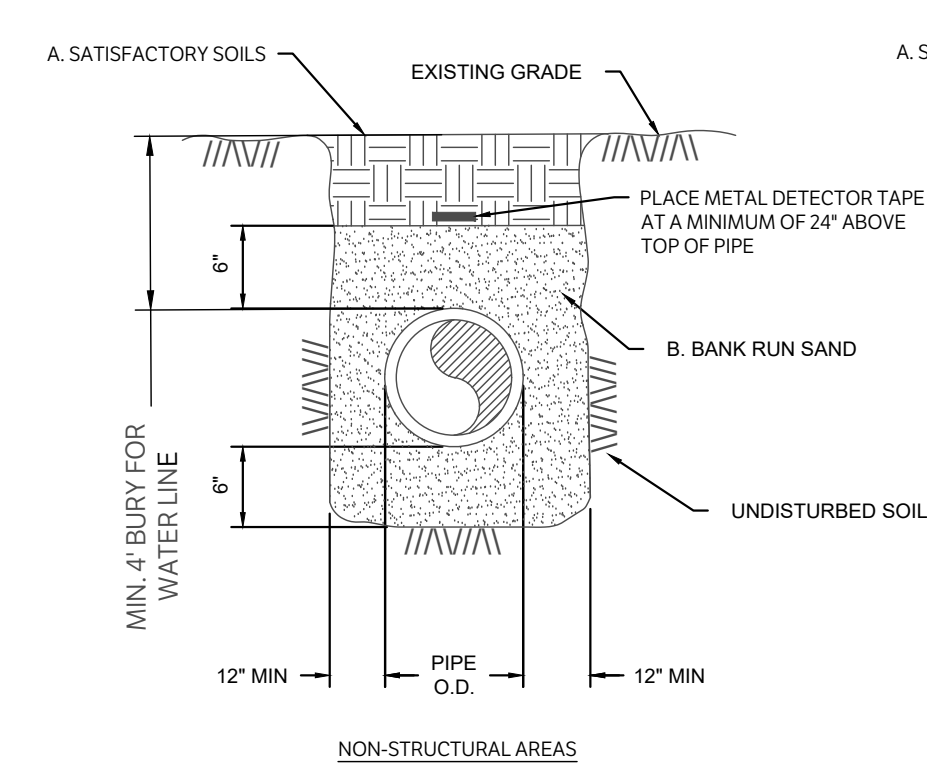


CONCRETE PAVEMENT
NTS



- NOTES:**
- SEE PLANS FOR JOINT SPACING, COMPRESSIVE STRENGTH, PAVEMENT THICKNESS, AND REINFORCING.
 - SAW CUT OPERATIONS SHALL BEGIN AS SOON AS POSSIBLE AFTER CONCRETE PLACEMENT.
 - SEAL ALL JOINTS WITH SELF LEVELING JOINT SEALANT MATERIAL PER SPECIFICATIONS.

CONTROL JOINT
NTS



- A. SATISFACTORY SOILS**
MATERIAL EXCAVATED FROM THE DITCH, WHICH IS FREE OF ROCKS, LUMPS, CLODS, OR DEBRIS LARGER THAN TWO (2) INCHES IN THE LARGEST DIMENSION, COMPACTED TO A MINIMUM OF 90% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D698 (STANDARD) AT MOISTURE CONTENT WITHIN OPTIMUM TO 2% OF OPTIMUM UNDER NON-STRUCTURAL AREAS (IE. YARDS, PASTURES, EASEMENTS) AND TO A MINIMUM OF 90% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D698 (STANDARD) AT A MOISTURE CONTENT WITHIN OPTIMUM TO 2% OF OPTIMUM UNDER NEW STREET AND PAVEMENT AREAS.
- B. BANK RUN SAND**
GRANULAR MATERIAL FREE OF DETRIMENTAL QUANTITIES OF CLAY, DEBRIS, OR ORGANIC MATERIAL. REFERENCE SPECIFICATION FOR REQUIREMENTS.
- C. CEMENT STABILIZED SAND**
MATERIALS SHALL BE TYPE PORTLAND CEMENT CONFORMING TO ASTM C150 AND CLEAN DURABLE SAND MEETING GRADING REQUIREMENTS FOR FINE AGGREGATES OF ASTM C33. THE CEMENT STABILIZED SAND SHALL HAVE A MINIMUM OF 10% CEMENT PER CUBIC YARD OF CEMENT STABILIZED SAND MIXTURE, BASED ON LOOSE DRY WEIGHT VOLUME (AT LEAST 2.5 SACKS OF CEMENT PER CUBIC YARD OF MIXTURE). COMPACT MIX TO 90% OF ASTM D698 WITH A MOISTURE CONTENT BETWEEN .2% TO 2% ABOVE OPTIMUM.
- D. PAVEMENT SUBGRADE**
REFERENCE PAVEMENT SECTION DETAIL AND SPECIFICATION FOR MATERIALS AND DEPTHS.

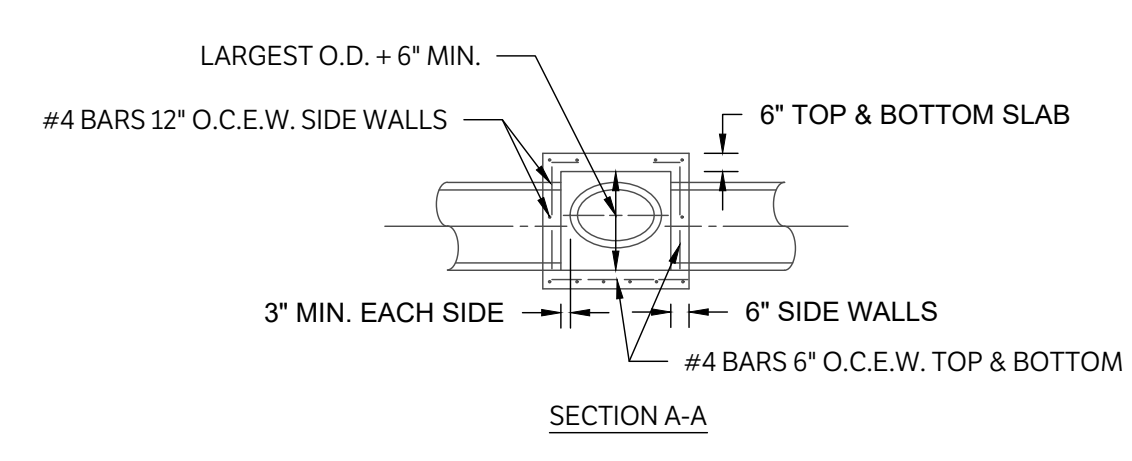
GENERAL NOTES:
ALL AREAS WHERE EXISTING VEGETATION AND GRASS COVER HAVE BEEN BARED BY CONSTRUCTION SHALL BE ADEQUATELY BLOCK SOODED OR HYDROMULCHED AND WATERED UNTIL GROWTH IS ESTABLISHED. IN DEVELOPED AREAS WHERE GRASS IS PRESENT, BLOCK SOO WILL BE REQUIRED. BARED AREAS SHALL BE SEEDED OR SOODED WITHIN 14 CALENDAR DAYS OF LAST DISTURBANCE.

APPROVED EROSION CONTROL MEASURES MUST BE INSTALLED DURING THE ENTIRE TIME THAT EARTH HAS BEEN BARED BY CONSTRUCTION AND SHALL STAY IN PLACE UNTIL ACCEPTABLE VEGETATIVE GROWTH IS ESTABLISHED AFTER CONSTRUCTION IS COMPLETE AND THEN REMOVED BY CONTRACTOR.

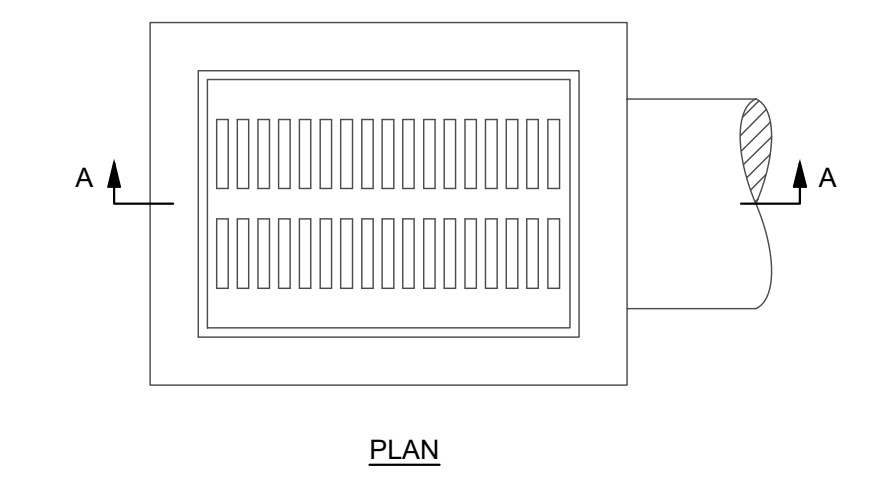
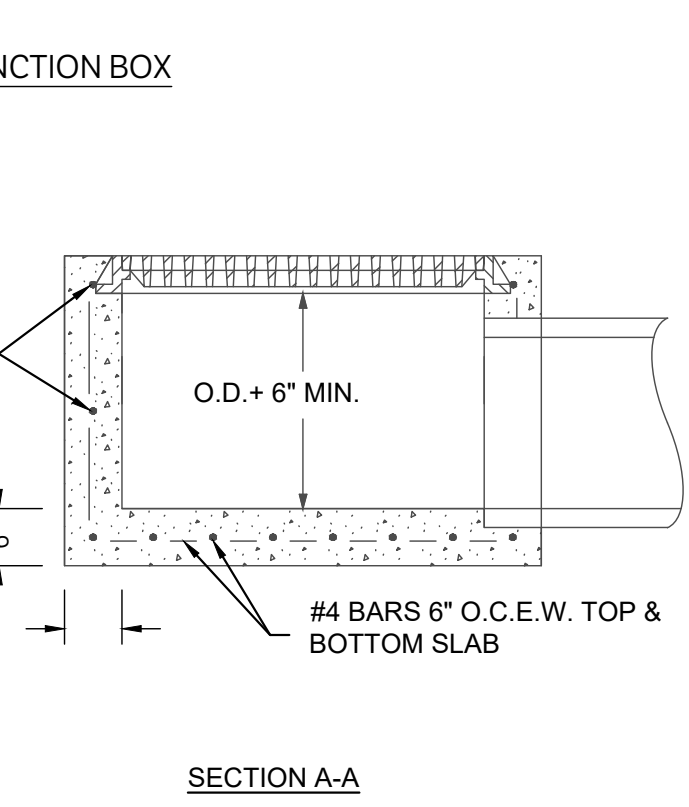
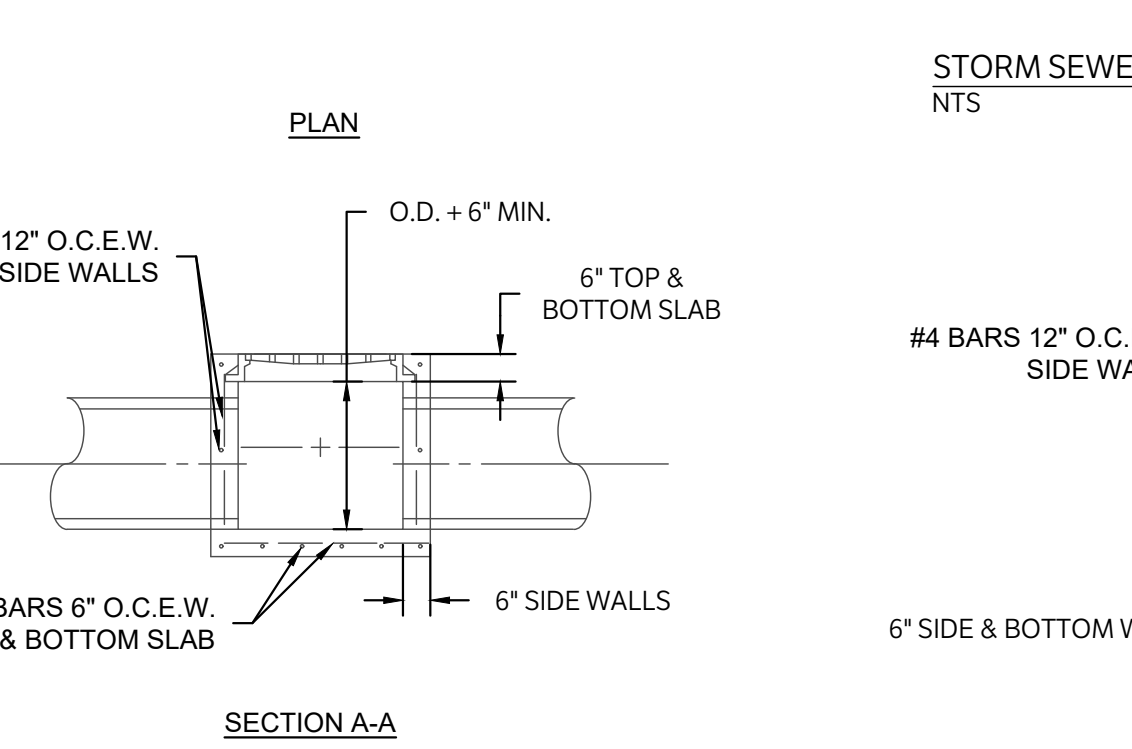
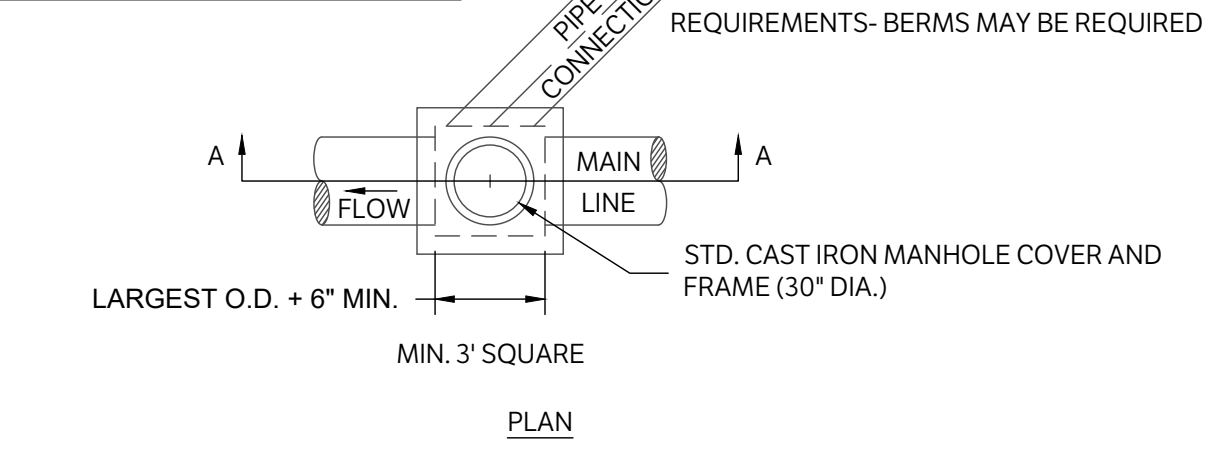
ALL EROSION CONTROL MEASURES SHOULD BE CLEANED OF SILT AFTER EVERY RAIN.

ESTABLISHMENT OF VEGETATION MAY BE A WARRANTY ITEM.

- NOTES:**
- FOR BEDDING AND TRENCHING WITHIN ALL PAVED AREAS SEE DETAILS FOR OPEN CUT STREETS.
 - ALL BEDDING & INSTALLATION OF HDPE PIPE SHALL BE IN ACCORDANCE WITH ANSII/AWA STANDARDS FOR HOPE PIPE COMPACTON SHALL BE ATTAINED BY MECHANICAL TAMPING.
 - RELATIVE COMPACTON SHALL BE TESTING IN THE PRESENCE OF THE ENGINEER.
 - DUST RESULTING FROM THE CONTRACTOR'S PERFORMANCE OF THE WORK, EITHER INSIDE OR OUTSIDE THE RIGHT-OF-WAY, SHALL BE CONTROLLED BY THE CONTRACTOR.
 - ALL TRENCHES SHALL BE BACK FILLED AND TEMPORARY PAVING OR PLATING PLACED AT THE END OF EACH WORKING DAY IN AREAS TO BE PAVED. PROTECT ALL OPEN TRENCHES AT THE END OF EACH WORKING DAY.
 - HOPE LINES WITH WELDED JOINTS MAY BE BACKFILLED PRIOR TO TESTING AT CONTRACTOR'S RISK.

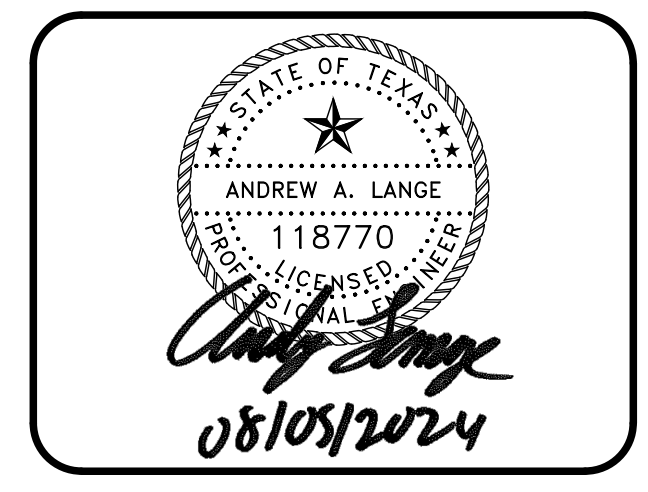
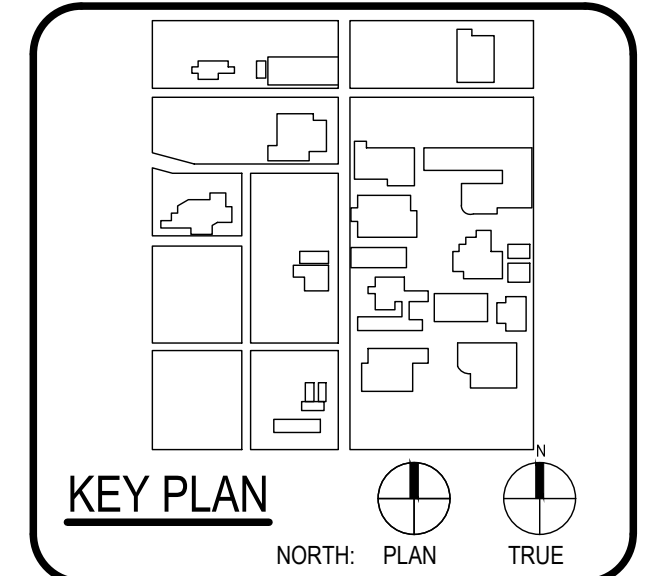


BEDDING AND TRENCH FOR HDPE PIPE
NTS



ARCHITECT SAN ANTONIO PBK Architects, Inc.
601 N.W. Loop 410, Suite 400
San Antonio, TX 78216
210-820-0123 P
210-829-0578 F
TX Firm BR 1608

WFAC Black Box Addition PKG 1



CLIENT: Alamo Colleges
DATE: 2024/06/12 PROJECT NUMBER: 230462

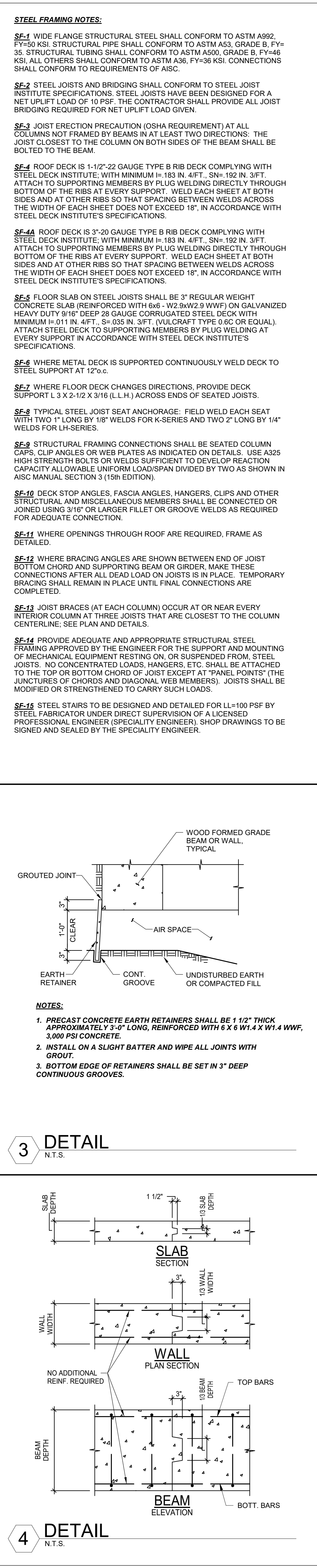
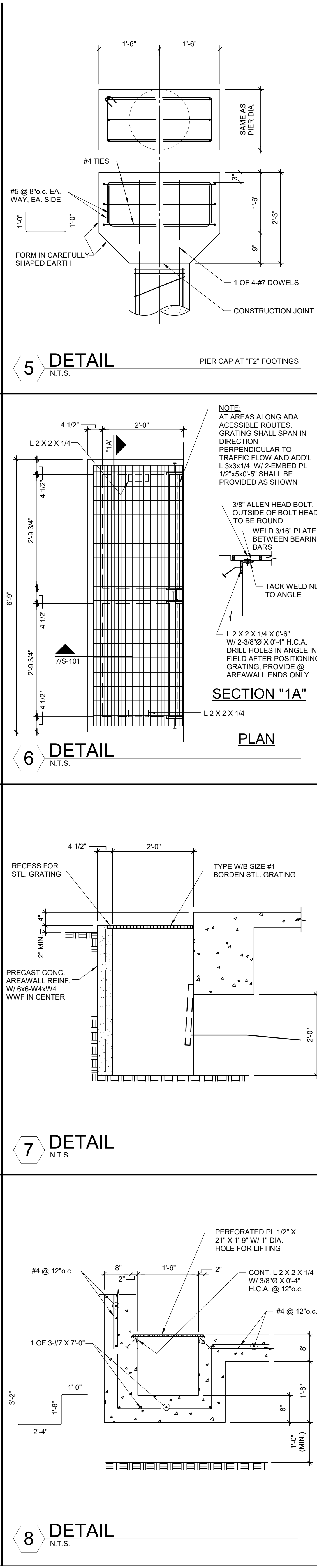
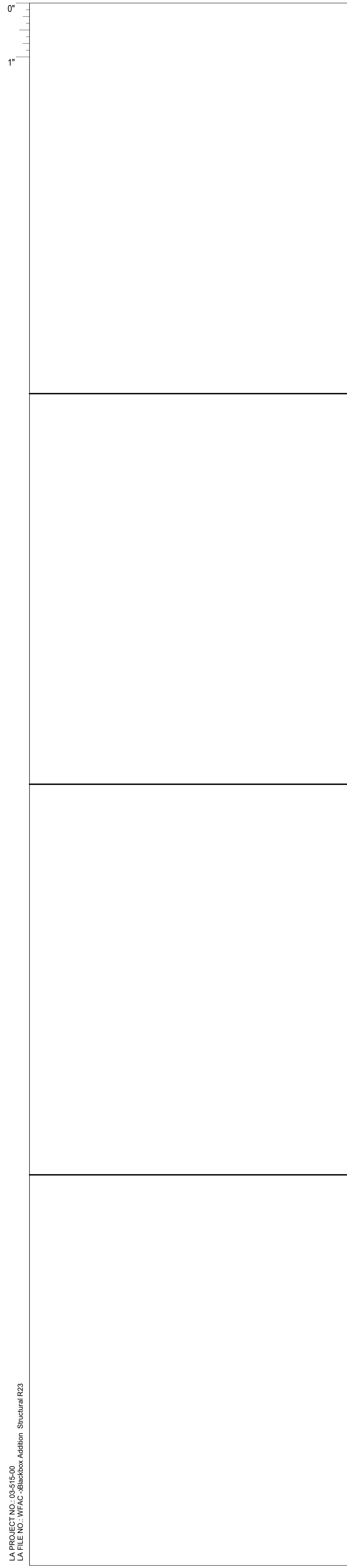
No.	Description	Date
1	ADDENDUM 1	08/05/2024

ISSUE FOR PERMIT

DETAILS

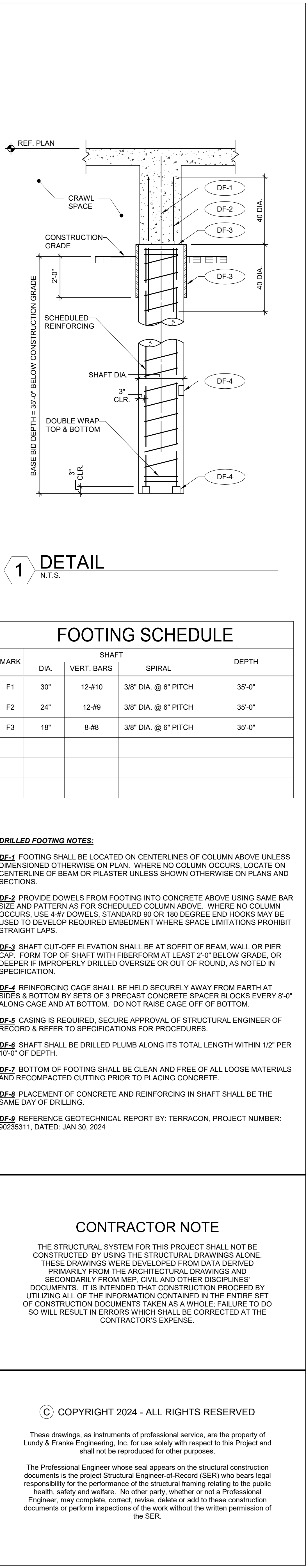
C1200

ISSUE FOR PERMIT



REINFORCING BAR LAP SPlice TABLE (MASONRY), (BEAMS AND COLUMNS), (SLABS AND WALLS). Includes tables for bar size, position, and lap class.

COLUMN SCHEDULE table with columns for MARK, SECT., TOP CONN., BASE PLATE, ANCHORS, SECT., and REMARKS.



Project information including architect (PBK Architects), engineer (Lundy & Franke Engineering), key plan, contractor note, and issue for construction details.

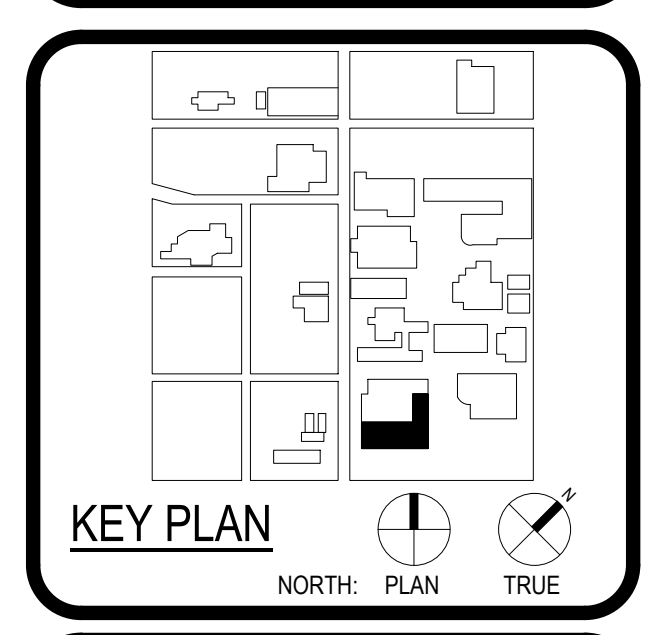


ARCHITECT SAN ANTONIO PBK Architects, Inc. 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216

ENGINEER LUNDY & FRANKE ENGINEERING 568 HEIMER ROAD San Antonio, Texas 78232

WFCAC Black Box Addition PKG 1 1801 Marlin Luther King Dr., San Antonio, TX 78203

ALAMO COLLEGES ST. PHILLIP'S COLLEGE



SHAWN J. FRANKE LICENSED PROFESSIONAL ENGINEER

CLIENT: Alamo Colleges, DATE: 2024/05/23, PROJECT NUMBER: 230462

ISSUE FOR CONSTRUCTION BUILDING NUMBER: AB

DEFERRED SUBMITTALS			
BUILDING CONSTRUCTION	YES	NO	DESCRIPTION
STEEL		X	-
CONCRETE		X	-
WOOD		X	-

DEFERRED SUBMITTALS			
BUILDING CONSTRUCTION	YES	NO	DESCRIPTION
STEEL		X	-
CONCRETE		X	-
WOOD		X	-

6. MASONRY CONSTRUCTION			
EMPIRICALLY DESIGNED MASONRY, GLASS UNIT MASONRY, AND MASONRY VENEER IN NON-ESSENTIAL FACILITIES.	SPECIAL INSPECTIONS NOT REQUIRED PER 1704.5.1	IBC 1705.4	
LEVEL 1 INSPECTION:	ENGINEERED MASONRY IN NON-ESSENTIAL FACILITIES AND EMPIRICALLY DESIGNED MASONRY IN ESSENTIAL FACILITIES.	IBC 1705.4	QUALIFICATIONS BASED ON ASTM C1093
A. AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:	1. PROPORTIONS OF SITE-PREPARED MORTAR. 2. CONSTRUCTION OF MORTAR JOINTS. 3. LOCATION OF REINFORCEMENT AND CONNECTORS. 4. PRESTRESSING TECHNIQUE 5. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES.		
B. THE INSPECTION PROGRAM SHALL VERIFY:	1. SIZE AND LOCATION OF STRUCTURAL ELEMENTS. 2. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION. 3. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT. 4. WELDING OF REINFORCING BARS. 5. PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40 DEGREES F) OR HOT WEATHER (TEMPERATURE ABOVE 90 DEGREES F). 6. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE.		
C. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:	1. GROUT SPACE IS CLEAN. 2. PLACEMENT OF REINFORCEMENT AND CONNECTORS AND PRESTRESSING TENDONS AND ANCHORAGES. 3. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS. 4. CONSTRUCTION OF MORTAR JOINTS.		
D. GROUT PLACEMENT	1. VERIFY COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENTS PROVISIONS. 2. GROUTING OF PRESTRESSING BONDED TENDONS.		
E. PREPARATION OF ANY AT THE COVERED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED.	1. VERIFY COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENTS PROVISIONS.		QUALIFICATIONS BASED ON C1093
F. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED.	1. VERIFY COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENTS PROVISIONS.		
G. TESTING OF GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS.	1. TEST ONE SET OF MORTAR CUBES PER 2000 sq OR PORTION THEREOF. 2. TEST ONE SET OF GROUT CYLINDERS PER 2000 sq OR PORTION THEREOF. 3. TEST ONE PRISM PER 6000 sq OR PORTION THEREOF. (SUBMITTED PRISM WILL BE ACCEPTABLE FOR FIRST PRISM TEST).		QUALIFICATIONS BASED ON C1093
LEVEL 1 INSPECTION CONT.:	ENGINEERED MASONRY IN NON-ESSENTIAL FACILITIES AND EMPIRICALLY DESIGNED MASONRY IN ESSENTIAL FACILITIES.	IBC 1704.5.1, IBC 1704.5.2	QUALIFICATIONS BASED ON ASTM C1093
H. POST INSTALLED REINFORCING & ANCHORS (EXPANSION ANCHORS, SCREW ANCHORS ADHESIVE ANCHORS, ECT.).	THE SPECIAL INSPECTOR SHALL BE ON THE JOB SITE CONTINUOUSLY DURING ANCHOR INSTALLATION TO VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, MASONRY TYPE AND COMPRESSION STRENGTH. PRE-DRILLED HOLE DIMENSIONS ANCHOR SPACING, EDGE DISTANCES, MASONRY THICKNESS AND ANCHOR EMBEDMENT.	ACI 318 APPENDIX D-CH. D.9.1	QUALIFICATIONS BASED ON ASTM E828 & ASTM C1077 OR CERTIFIED MANUFACTURER REPRESENTATIVE

3. CONCRETE CONSTRUCTION CONT.			
G. PLACEMENT OF CONCRETE & SHOTCRETE.	CONTINUOUS	ACI 318-CH. 5.9, 5.10	QUALIFICATIONS BASED ON ASTM C1077
H. MAINTENANCE OF SPECIFIED CURING TEMPERATURE & TECHNIQUES.	PERIODIC	EACH CONCRETE POUR	ACI 318-CH. 5.11, 5.13
I. PRESTRESSED CONCRETE.	NA	1. APPLICATION OF PRESTRESSING FORCE 2. GROUTING OF BONDED PRESTRESSING TENDONS IN SEISMIC-FORCE RESISTING SYSTEMS.	QUALIFICATIONS BASED ON ASTM C1077
J. ERECTION OF PRECAST CONCRETE MEMBERS.	NA	1. VERIFY IN-SITU CONCRETE STRENGTH PRIOR TO STRESSING OF TENDONS.	TECHNICIAN TRAINED IN FIELD OF WORK AND HAS AT LEAST ONE YEAR OF EXPERIENCE.
K. POST-TENSIONED CONCRETE.	NA	1. VERIFY IN-SITU CONCRETE STRENGTH PRIOR TO STRESSING OF TENDONS. 2. THE POST-TENSIONING ENGINEER OR A MEMBER OF HIS STAFF SHALL INSPECT THE TENDON PLACEMENT AND CHAIRING TO INSURE COMPLIANCE WITH THE INTENT OF THE DESIGN. 3. CONTINUOUS INSPECTION IS REQUIRED DURING ALL STRESSING ACTIVITIES. 4. RECORDS OF ALL JACKING FORCES AND ELONGATIONS SHALL BE MADE IN ACCORDANCE WITH THE PTF FIELD MANUAL AND RECORDS SHALL BE PROMPTLY SUBMITTED TO THE ARCHITECT AND ENGINEER.	QUALIFICATIONS BASED ON ASTM E828
L. REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	PERIODIC	VERIFY IN-SITU CONCRETE STRENGTH PRIOR TO REMOVAL.	ACI 318-CH. 5.11, 5.13
M. POST INSTALLED REINFORCING & ANCHORS (EXPANSION ANCHORS, SCREW ANCHORS ADHESIVE ANCHORS, ECT.).	CONTINUOUS	THE SPECIAL INSPECTOR SHALL BE ON THE JOB SITE CONTINUOUSLY DURING ANCHOR INSTALLATION TO VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, CONCRETE TYPE AND COMPRESSION STRENGTH. PRE-DRILLED HOLE DIMENSIONS ANCHOR SPACING, EDGE DISTANCES, CONCRETE THICKNESS AND ANCHOR EMBEDMENT.	ACI 318 APPENDIX D-CH. D.9.1
4. STEEL CONSTRUCTION			IBC 1705.2
A. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS.	NA	1. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	STRUCTURAL STEEL GENERAL NOTES
	NA	2. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	APPLICABLE ASTM MATERIAL SPECIFICATIONS: AISC 336, SECTION A3.4; AISC LRFD, SECTION A3.3
4. STEEL CONSTRUCTION CONT.:			IBC 1704.3
B. HIGH STRENGTH BOLTING:	NA	1. BEARING-TYPE CONNECTIONS.	IBC 1705.2 STRUCTURAL STEEL GENERAL NOTES
	NA	2. SLIP-CRITICAL CONNECTIONS.	AWSD D1.1
C. MATERIAL VERIFICATION OF STRUCTURAL STEEL.	NA	1. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	IBC 1705.2 STRUCTURAL STEEL GENERAL NOTES
	NA	2. MANUFACTURER'S CERTIFIED MILL TEST REPORTS.	ASTM A 6 OR AISC LRFD, SECTION A3.5
D. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:	NA	1. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.	STRUCTURAL STEEL GENERAL NOTES
	NA	2. MANUFACTURER'S CERTIFIED OF COMPLIANCE REQUIRED.	AWSD, SECTION A3.6; AISC LRFD, SECTION A3.5
E. WELDING OF STRUCTURAL STEEL:	NA	1. COMPLETE & PARTIAL PENETRATION GROOVE WELDS.	IBC 1705.2.1 STRUCTURAL STEEL GENERAL NOTES
	NA	2. MULTIPASS FILLET WELDS.	AWSD D1.1
	NA	3. SINGLE-PASS FILLET WELDS > 5/16"	CWI AND ASNT OR LICENSED ENGINEER
	NA	4. SINGLE-PASS FILLET WELDS < 5/16"	
	NA	5. FLOOR AND DECK WELDS.	AWSD D1.3
F. WELDING OF REINFORCING STEEL:	NA	1. VERIFICATION OF WELD ABILITY OF REINFORCING STEEL OTHER THAN A500.	IBC 1705.2.2.1 STEEL
	NA	2. REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS AND SHEAR REINFORCEMENT.	CWASSOCIATE/TECHNICAL TRAINED IN FIELD OF WORK AND HAS AT LEAST ONE YEAR OF EXPERIENCE.
	NA	3. SHEAR REINFORCEMENT.	
	NA	4. OTHER REINFORCING STEEL.	
G. STEEL FRAME JOINT DETAILS, COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS:	NA	1. DETAILS SUCH AS BRACING & STIFFENING.	IBC 1705.2.1 STRUCTURAL DRAWINGS
	NA	2. MEMBER LOCATIONS.	PROJECT OF COMPLEX DETAILS - ASSOCIATE CWI PROJECTS OF RELATIVELY SIMPLE DETAILS.
	NA	3. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.	TECHNICIAN TRAINED IN FIELD OF WORK AND HAS AT LEAST ONE YEAR OF EXPERIENCE.
H. POST INSTALLED REINFORCING & ANCHORS (EXPANSION ANCHORS, SCREW ANCHORS ADHESIVE ANCHORS, ECT.).	NA	THE SPECIAL INSPECTOR SHALL BE ON THE JOB SITE CONTINUOUSLY DURING ANCHOR INSTALLATION TO VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, CONCRETE OR MASONRY TYPE AND COMPRESSION STRENGTH. PRE-DRILLED HOLE DIMENSIONS, ANCHOR SPACING, EDGE DISTANCES, CONCRETE OR MASONRY THICKNESS AND ANCHOR EMBEDMENT.	ACI 318 APPENDIX D-CH. D.9.1
5. INSPECTION OF FABRICATORS FOR STRUCTURAL STEEL			IBC 1705.2.1
FABRICATION & IMPLEMENTATION PROCEDURES	NA	FABRICATION AND IMPLEMENTATION PROCEDURES. THE SPECIAL INSPECTOR SHALL VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL RECORDS OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. THE SPECIAL INSPECTOR SHALL REVIEW THE PROCEDURES FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE CODE REQUIREMENTS FOR THE FABRICATOR'S SCOPE OF WORK. EXCEPTION: SPECIAL INSPECTIONS SHALL NOT BE REQUIRED WHERE THE WORK IS DONE ON THE PREMISES OF A FABRICATOR THAT IS ENROLLED IN A NATIONALLY ACCEPTED INSPECTIONS PROGRAM ACCEPTABLE TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. AT COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO BUILDING OFFICIAL. UPON REQUEST AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.	CWI, ASNT, LICENSED ENGINEER

Pursuant to IBC Chapter 17 (1704.2.1) provide the following Special Inspector Qualifications to the RDP/RC prior to start of inspections;

- Testing Laboratory Qualifications meeting ASTM0329 and accreditation by AASHTO and/or A2LA, and CCRL of the National Bureau of Standards.
- Special Inspector's name and proof of meeting the qualification requirements set forth in:
 - ASTM C1077 for concrete,
 - ASTM D3740 for soils,
 - ASTM C1093 for masonry.
 - ASTM D-2922 and D-3017 for Density control of compaction

IBC 1704.2.1 "written documentation demonstrating the competence and relevant experience or training of special inspectors who will perform special inspections and tests during construction. Experience or training shall be considered relevant where the documented experience or training is related in complexity to the same type of special inspection or testing activities for projects of similar complexity and material qualities." These qualifications are in addition to qualifications specified in other sections of the IBC.

TESTING & INSPECTION REQUIREMENTS (INCLUDING SPECIAL INSPECTIONS)

REQUIRED INSPECTION VERIFICATION, OR TEST	VERIFICATION MONITORING FREQUENCY	TYPE AND/OR FREQUENCY OF TESTING	IBC SECTION & REFERENCE CODES	INSPECTOR QUALIFICATIONS
1. SOILS (SLAB ON GRADE)				
A. SUB-GRADE:				
1. VISUAL OBSERVATION	PERIODIC	SITE PREPARATION. AT THE CONTRACTOR'S EXPENSE, INSTRUMENT READINGS SHALL BE TAKEN BY A LICENSED SURVEYOR TO VERIFY FINAL SUBGRADE ELEVATIONS AND SLOPES.	IBC 1705.6	QUALIFICATIONS BASED ON ASTM D3740 LICENSED SURVEYOR
2. PROFFROLLING OBSERVATIONS	CONTINUOUS	PROFFROLLING SHALL BE MONITORED BY A GEOTECHNICAL ENGINEER SHALL BE APPROVE THE TYPE OF PROFFROLLING EQUIPMENT AND PROCEDURES.	IBC 1705.6	QUALIFICATIONS BASED ON ASTM D3740
3. MOISTURE CONDITIONING & CURE	PERIODIC	PROVIDE (1) ON DENSITY TEST FOR EACH 3000 SQ. FT. REFER TO UNDERFLOOR FILL NOTES FOR TESTING SPECIFICATIONS.	IBC 1705.6	QUALIFICATIONS BASED ON ASTM D3740
B. CHEMICAL INJECTION	NA	QUALITY CONTROLLED TESTING AND EVALUATION PRIOR AND SUBSEQUENT TO INJECTION SHALL BE PERFORMED BY THE GEOTECHNICAL ENGINEER TO DETERMINE THE EFFECTIVENESS OF THE CHEMICAL INJECTION PROCESS. THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE SHALL MONITOR THE INJECTION PROCESS TO VERIFY AREA COVERAGE, INJECTION DEPTH AND TO REVIEW AND MONITOR THE SWELL TEST RESULTS.	IBC 1705.6	QUALIFICATIONS BASED ON ASTM D3740
C. DURING FILL PLACEMENT	PERIODIC	VISUAL OBSERVATIONS: DURING PLACEMENT AND COMPACTOR OF FILL, SPECIAL INSPECTOR SHALL DETERMINE THE MATERIAL BEING USED AND THE MAXIMAL LIFT THICKNESS COMPLY WITH ADDITIONAL SAMPLES TESTED EACH DAY, OR MORE OFTEN IF MATERIAL APPEARS TO VARY.	IBC 1705.6	QUALIFICATIONS BASED ON ASTM D3740
D. EVALUATION OF IN-PLACE DENSITY OF FILL	PERIODIC	PROVIDE (1) ON DENSITY TEST FOR EACH 3000 SQ. FT. REFER TO UNDERFLOOR FILL NOTES FOR TESTING SPECIFICATIONS.	IBC 1705.6	QUALIFICATIONS BASED ON ASTM D3740
E. TRENCH BACKFILLING:	PERIODIC	TRENCH BACKFILLING: TRENCH BACKFILLING WITH CLAY CAP AND PLACING OF CLAY PLUG SHALL BE MONITORED BY GEOTECHNICAL ENGINEER.		
2A. PILE FOUNDATIONS				
A. THE GEOTECHNICAL ENGINEER OR A QUALIFIED E.I.T. INVOLVED IN THE ORIGINAL GEOTECHNICAL INVESTIGATION AND UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER SHALL BE PRESENT DURING THE EXCAVATION OF THE FIRST PILE.	NA	1. VERIFY THE BEARING STRATH IS ENCOUNTERED AT THE ANTICIPATED DEPTH. 2. ADDRESS UNFORESEEN SUBSURFACE CONDITIONS, IF ANY. 3. VERIFY CONFORMANCE WITH THE FOUNDATION RECOMMENDATIONS PROVIDED IN THE PROJECT "GEOTECHNICAL ENGINEERING STUDY" AND THE STRUCTURAL DRAWINGS ISSUED FOR THE PROJECT.	IBC 1705.7	GRADUATE ENGINEER GEOTECHNICAL REPORT: QUALIFICATIONS BASED ON ASTM E828 & ASTM C1077
B. ALL FOOTINGS SHALL BE OBSERVED AND MONITORED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER. THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF STRUCTURAL DRAWINGS THAT ARE TO REMAIN WITH THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE.	NA	1. PROVIDE RECORD OF EACH PILE INSTALLED. 2. RECORD LOAD TESTS, CUTOFF AND TIP OF EACH PILE.	IBC 1705.7	QUALIFICATIONS BASED ON ASTM E828 & ASTM C1077
2B. PIER FOUNDATIONS				
A. THE GEOTECHNICAL ENGINEER OR A QUALIFIED E.I.T. INVOLVED IN THE ORIGINAL GEOTECHNICAL INVESTIGATION AND UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER SHALL BE PRESENT DURING THE EXCAVATION OF THE FIRST PIER SHAFT.	CONTINUOUS	1. VERIFY THE BEARING STRATH IS ENCOUNTERED AT THE ANTICIPATED DEPTH. 2. ADDRESS UNFORESEEN SUBSURFACE CONDITIONS, IF ANY. 3. VERIFY CONFORMANCE WITH THE FOUNDATION RECOMMENDATIONS PROVIDED IN THE PROJECT "GEOTECHNICAL ENGINEERING STUDY" AND THE STRUCTURAL DRAWINGS ISSUED FOR THE PROJECT.	IBC 1705.8	GRADUATE ENGINEER GEOTECHNICAL REPORT: QUALIFICATIONS BASED ON ASTM E828 & ASTM C1077
B. ALL FOOTINGS SHALL BE OBSERVED AND MONITORED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER WITH A COMPLETE SET OF STRUCTURAL DRAWINGS THAT ARE TO REMAIN WITH THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE.	CONTINUOUS	1. PROVIDE RECORD OF EACH PIER INSTALLED. 2. RECORD LOAD TESTS, CUTOFF AND TIP OF EACH PIER.	IBC 1705.8	QUALIFICATIONS BASED ON ASTM E828 & ASTM C1077
3. CONCRETE CONSTRUCTION				
A. REINFORCING STEEL	PERIODIC	PROVIDE PERIODIC INSPECTION OF REINFORCING SIZES, SPACING, GRADE OF REBAR, AND PLACEMENT AT THE FOLLOWING FREQUENCY: COILS: 10% BEAMS: 30% JOIST: 10% OTHER MEMBERS: RANDOMLY @ 20%	IBC 1705.3	QUALIFICATIONS BASED ON ASTM E828
B. REINFORCING STEEL WELDING	-	NO FIELD WELDING PERMITTED.	AWSD D1.4 ACI 318 3.5.2	CWI OR ASSOCIATE CWI
C. BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO & DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED.	CONTINUOUS	VERIFY LOCATION, SIZE AND SPACING OF ANCHORS.	IBC 1705.3	"TECHNICIAN TRAINED IN FIELD OF WORK AND HAS AT LEAST ONE YEAR EXPERIENCE."
D. ANCHORS TO BE INSTALLED IN EXISTING CONCRETE	CONTINUOUS	VERIFY LOCATION, SIZE AND SPACING OF ANCHORS	IBC 1705.3	"TECHNICIAN TRAINED IN FIELD OF WORK AND HAS AT LEAST ONE YEAR EXPERIENCE."
E. VERIFY USE OF CONCRETE MIX DESIGN	PERIODIC	EACH CONCRETE POUR	ACI 318-CH. 4, 5.2.4	QUALIFICATIONS BASED ON ASTM C1077
F. SAMPLES OF FRESH CONCRETE	CONTINUOUS EACH CONCRETE POUR	1. ALL CONCRETE TESTING IS TO BE MADE AFTER WATER, IF ANY, IS ADDED AT SITE. 2. TAKE SAMPLES & PERFORM SLUMP, AIR & COMPRESSION TESTS IN ACCORDANCE WITH ASTM C-39 ON CONCRETE PLACED EACH DAY AT THE RATE OF ONE SET OF FOUR CYLINDERS FOR EACH 80 cu. yds. OR FRACTION THEREOF. WHEN MORE THAN 80 cu. yds. IS BEING CONTINUOUSLY PLACED, THE INTERVAL BETWEEN TEST SAMPLES SHALL BE AT LEAST 90 cu. yds. SO AS TO BE REPRESENTATIVE OF THE WHOLE DAYS POUR. SAMPLES SHALL BE TAKEN AT THE POINT OF DEPOSIT IN THE FIELD & ALL CYLINDERS SHALL BE ACCURATELY MARKED & REFERENCED TO SHOW DATE, TIME & EXACT LOCATION IN THE STRUCTURE FROM WHICH THEY CAME. MAKE 7-DAY TEST ON TWO CYLINDERS & 28-DAY TEST ON TWO CYLINDERS. REPORTS OF TESTS SHALL BE PROMPTLY SENT AS FOLLOWS: TWO TO THE PORTING (ARCHITECT), ONE TO THE ENGINEER AND ONE TO THE CONTRACTOR.	ACI 318-CH. 5.6, 5.8	QUALIFICATIONS BASED ON ASTM C1077

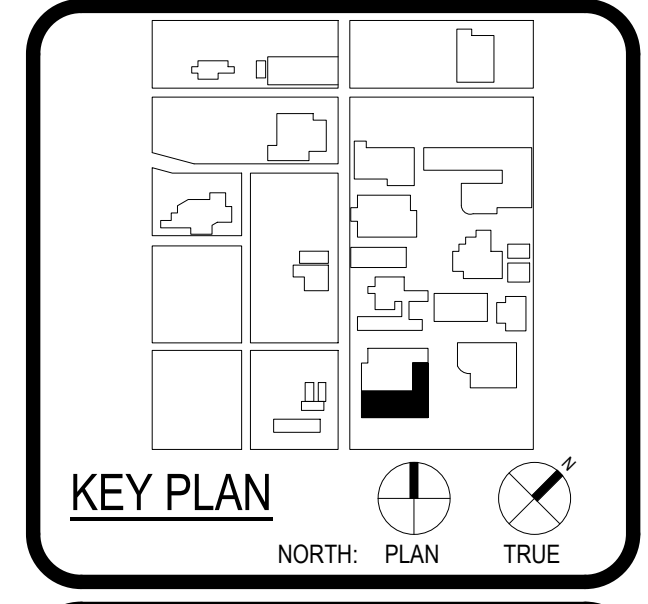
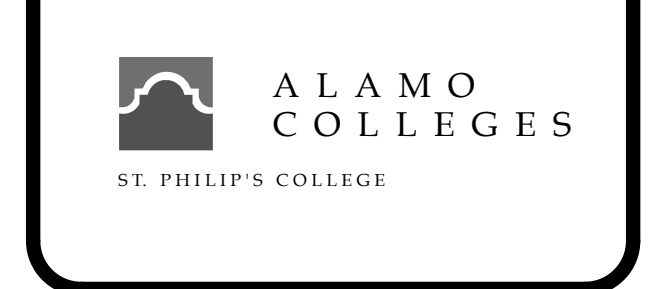


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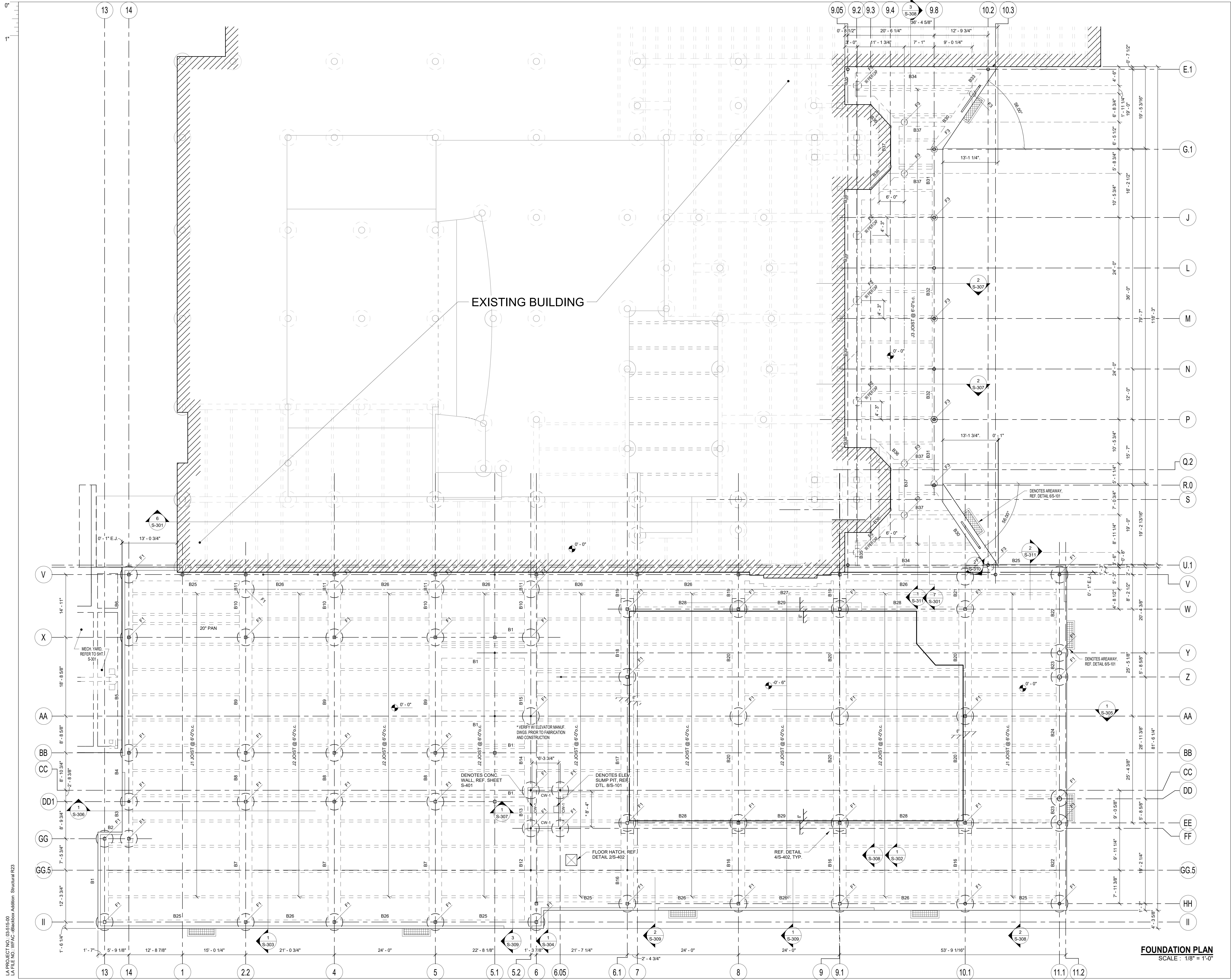
ISSUE FOR CONSTRUCTION



No.	Description	Date
2	City Comments	06/12/24

ISSUE FOR CONSTRUCTION
BUILDING NUMBER AB
SPECIAL INSPECTION NOTES

ISSUE FOR CONSTRUCTION



FOUNDATION PLAN
SCALE: 1/8" = 1'-0"

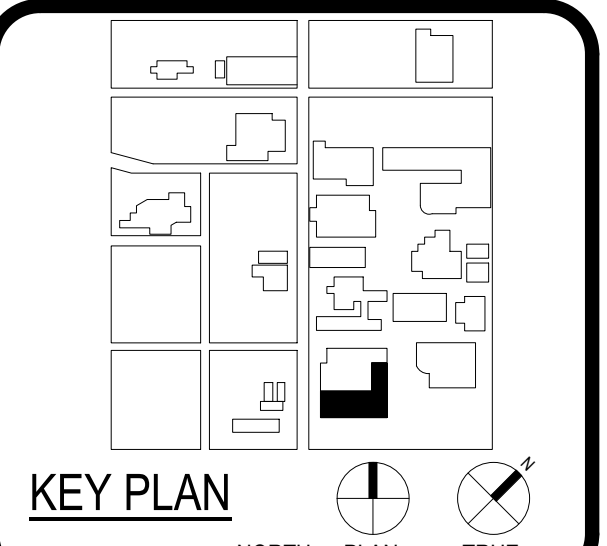
LA PROJECT NO. 03/515-00
LA FILE NO. WFAC-Blackbox Addition, Structural R23



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WFAC Black Box Addition PKG 1



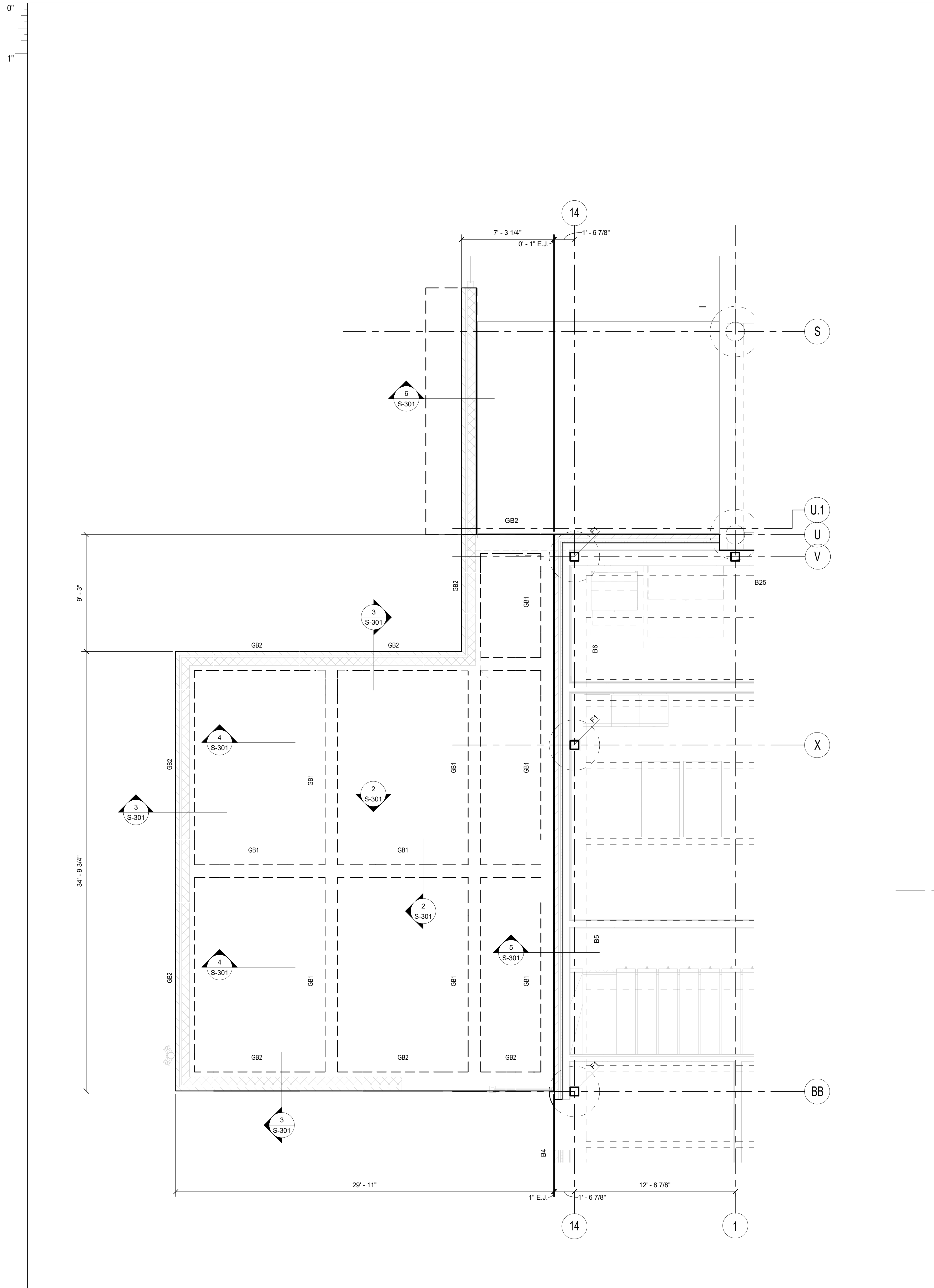
CLIENT: Alamo Colleges
DATE: 2024/05/23 PROJECT NUMBER: 230462

No.	Description	Date
2	City Comments	06/12/24

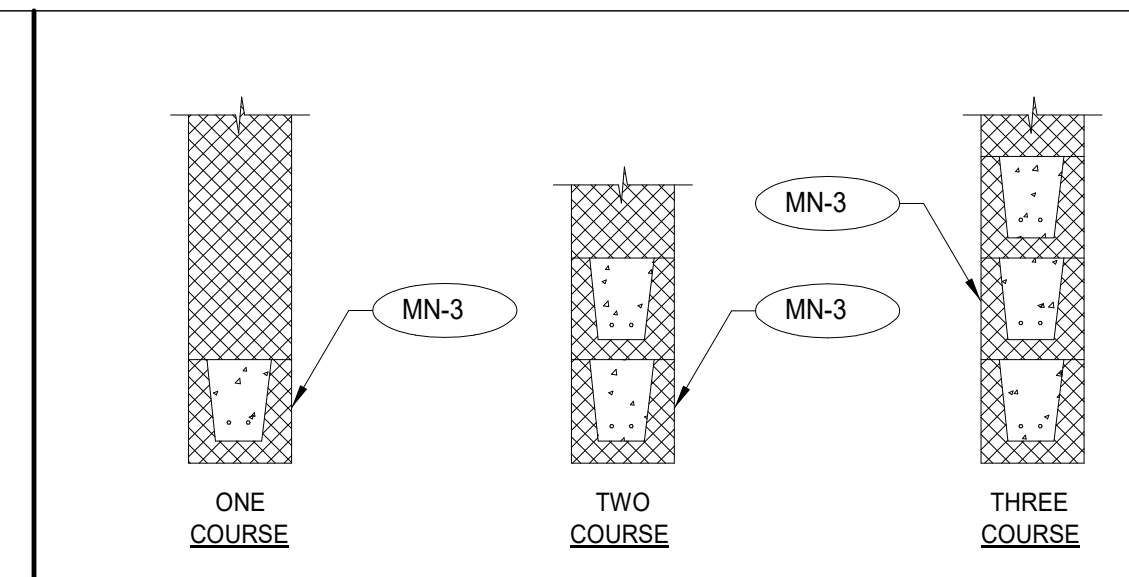
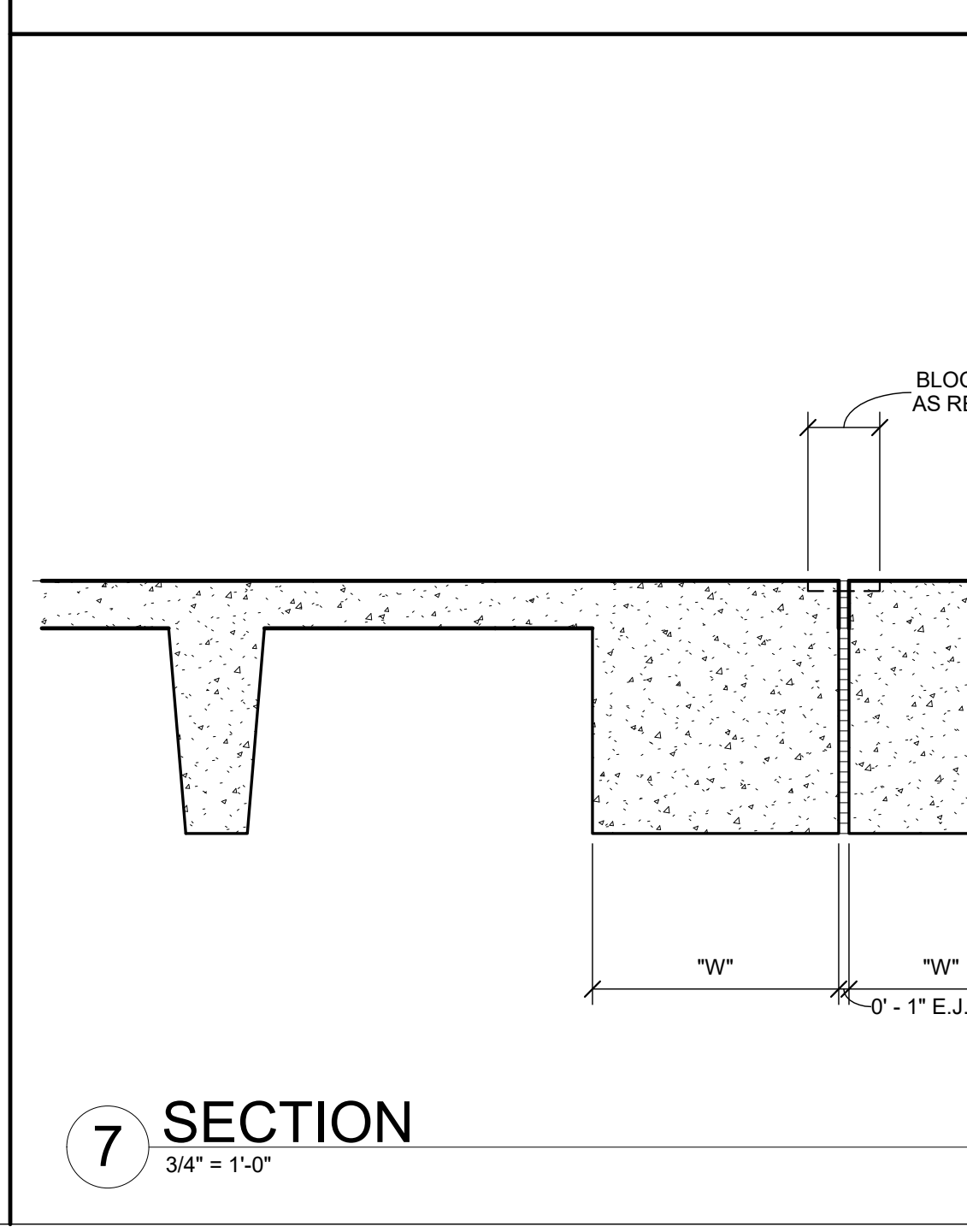
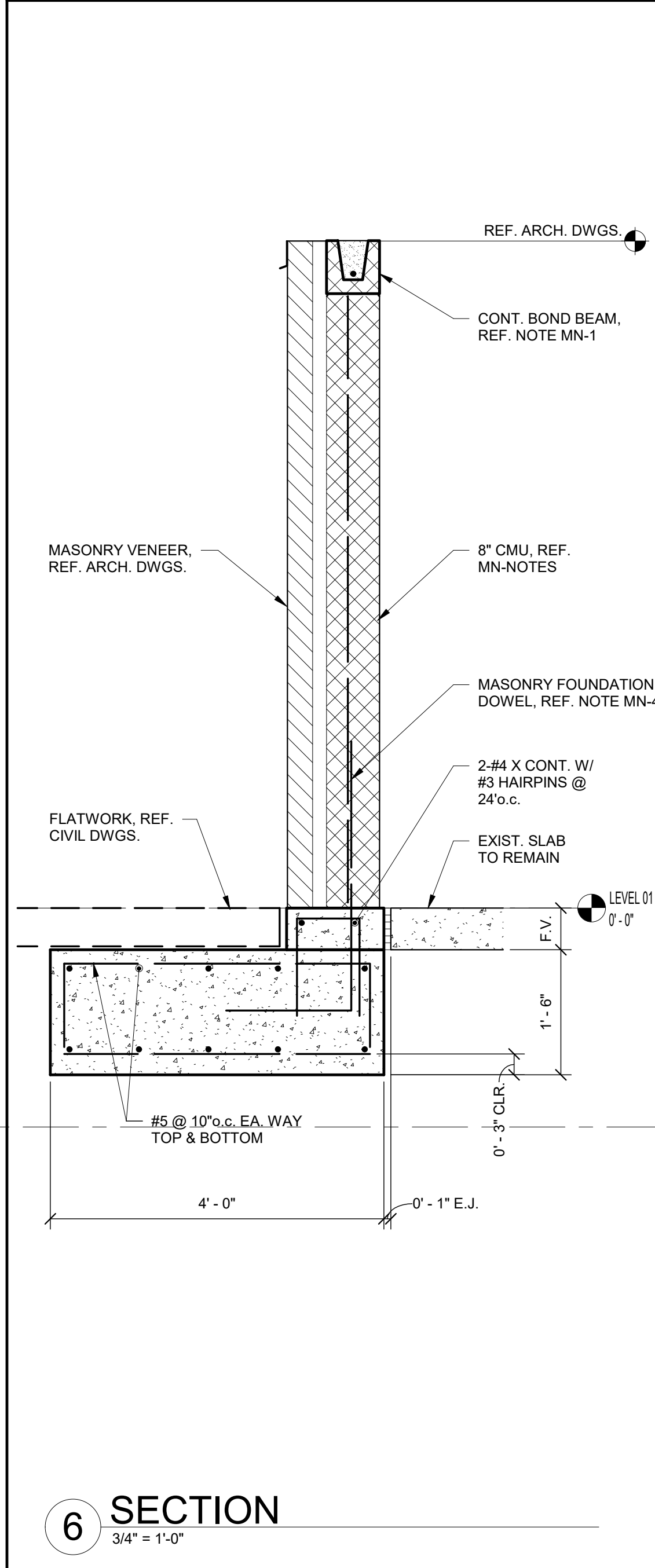
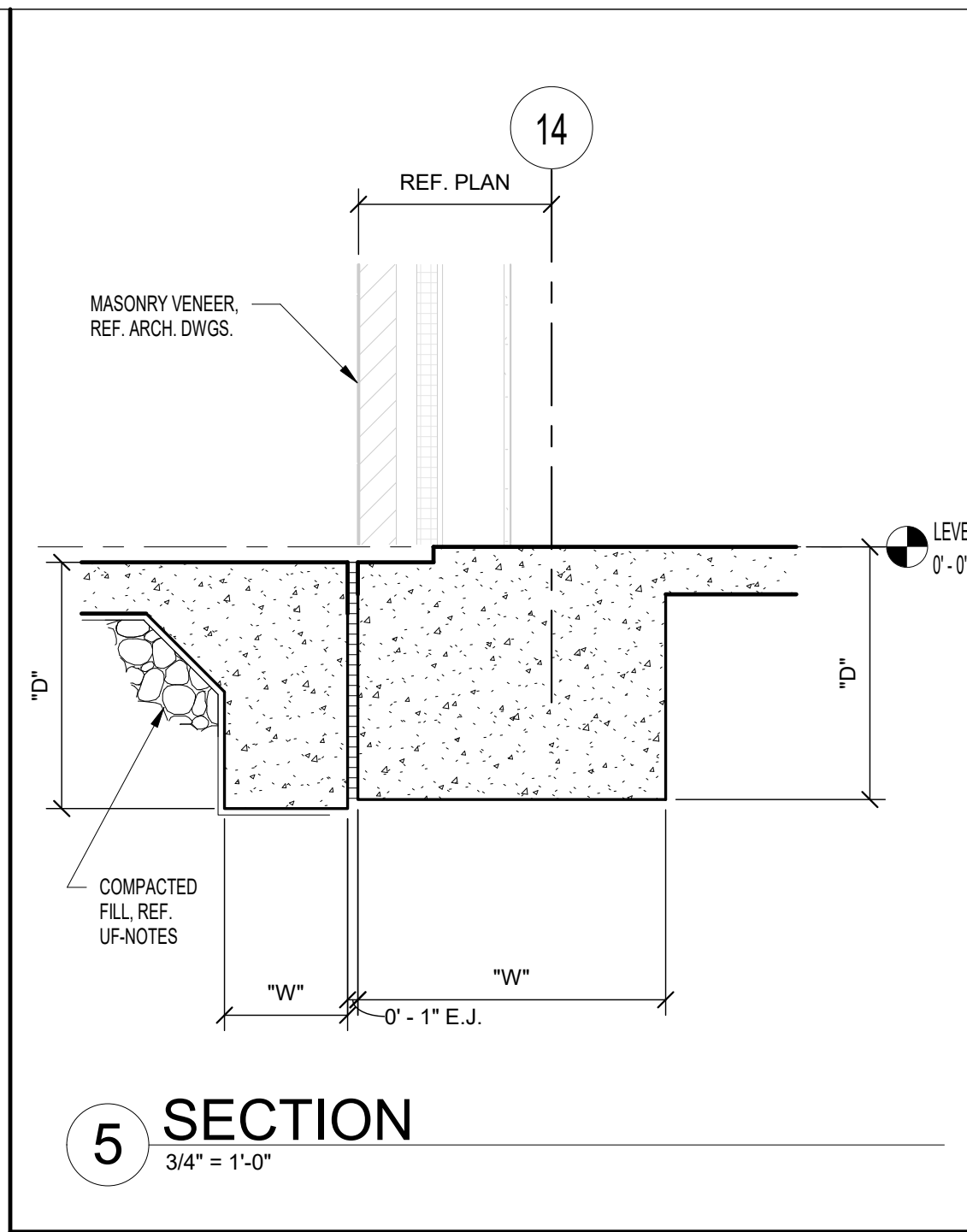
ISSUE FOR CONSTRUCTION
BUILDING NUMBER AB

FOUNDATION FRAMING PLAN

S-201



MECHANICAL YARD FOUNDATION PLAN
SCALE: 1/4" = 1'-0"



SIZE	CLEAR OPENING		REMARKS
	GREATER THAN	UP TO	
ONE COURSE	-	4'-0"	8" BEARING @ EA. END
TWO COURSE	4'-0"	6'-6"	8" BEARING @ EA. END
THREE COURSE	6'-6"	14'-0"	8" BEARING @ EA. END

MASONRY WALL REINFORCEMENT:

MN-1 PROVIDE GROUDED REINFORCED VERTICAL CELLS AND HORIZONTAL BOND BEAMS AT WALL TOP EDGES, CORNERS, FREE ENDS, WINDOW AND DOOR JAMBS, LINTELS AND OTHER LOCATIONS WHERE SHOWN ON ARCHITECTURAL DRAWINGS. REINFORCE EACH GROUDED CELL AND BOND BEAM WITH 1-#4 BAR CONTINUOUS (REINFORCE LINTELS AS SPECIFIED BELOW).

MN-2 BASIC VERTICAL REINFORCEMENT FOR EXTERIOR WALLS SHALL BE #4 @ 32" O.C. (EVERY 4TH VERTICAL CELL).

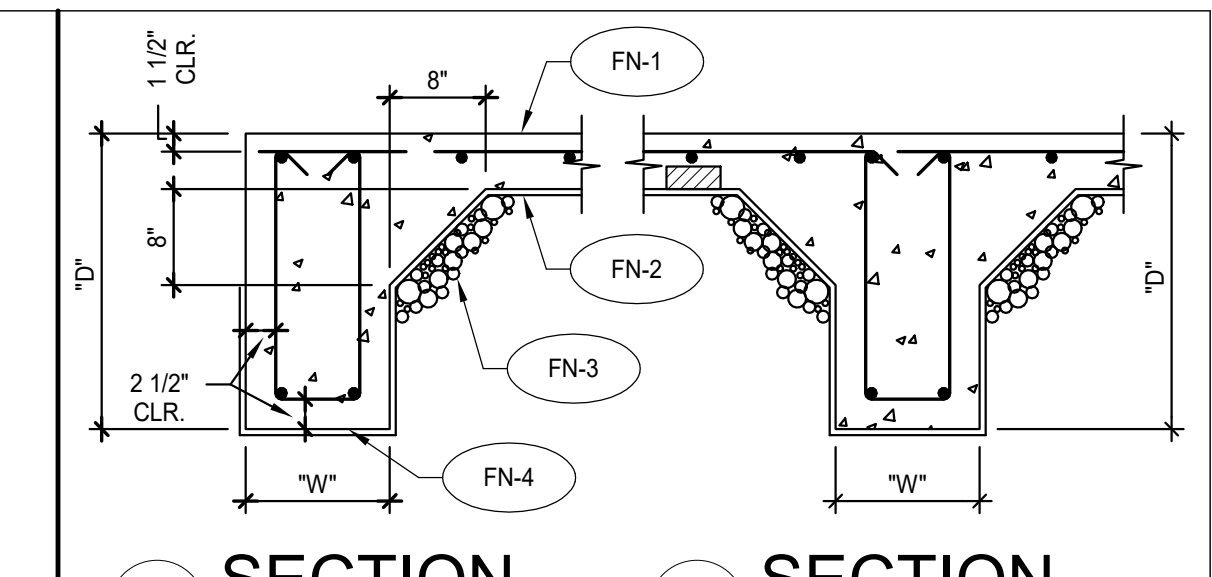
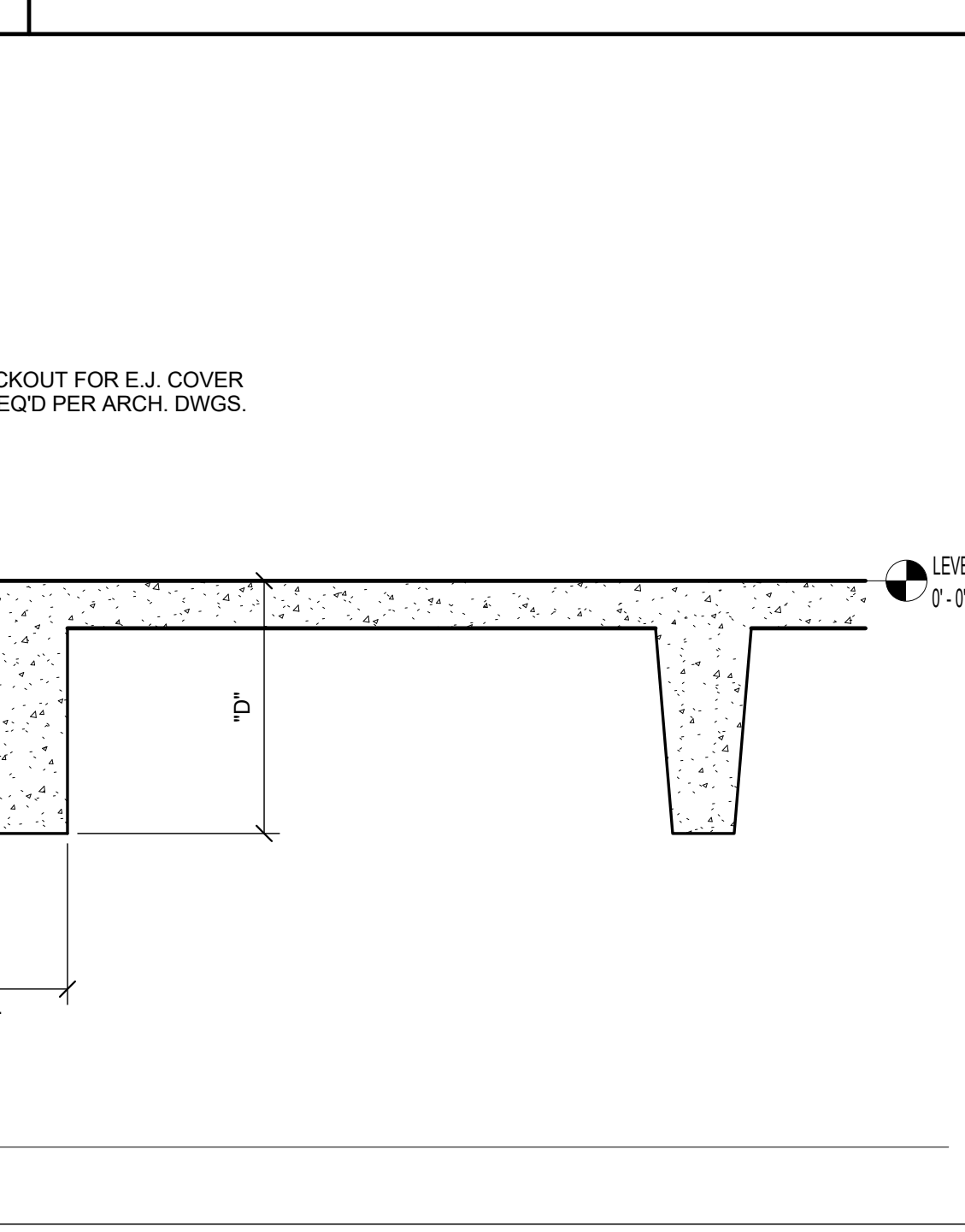
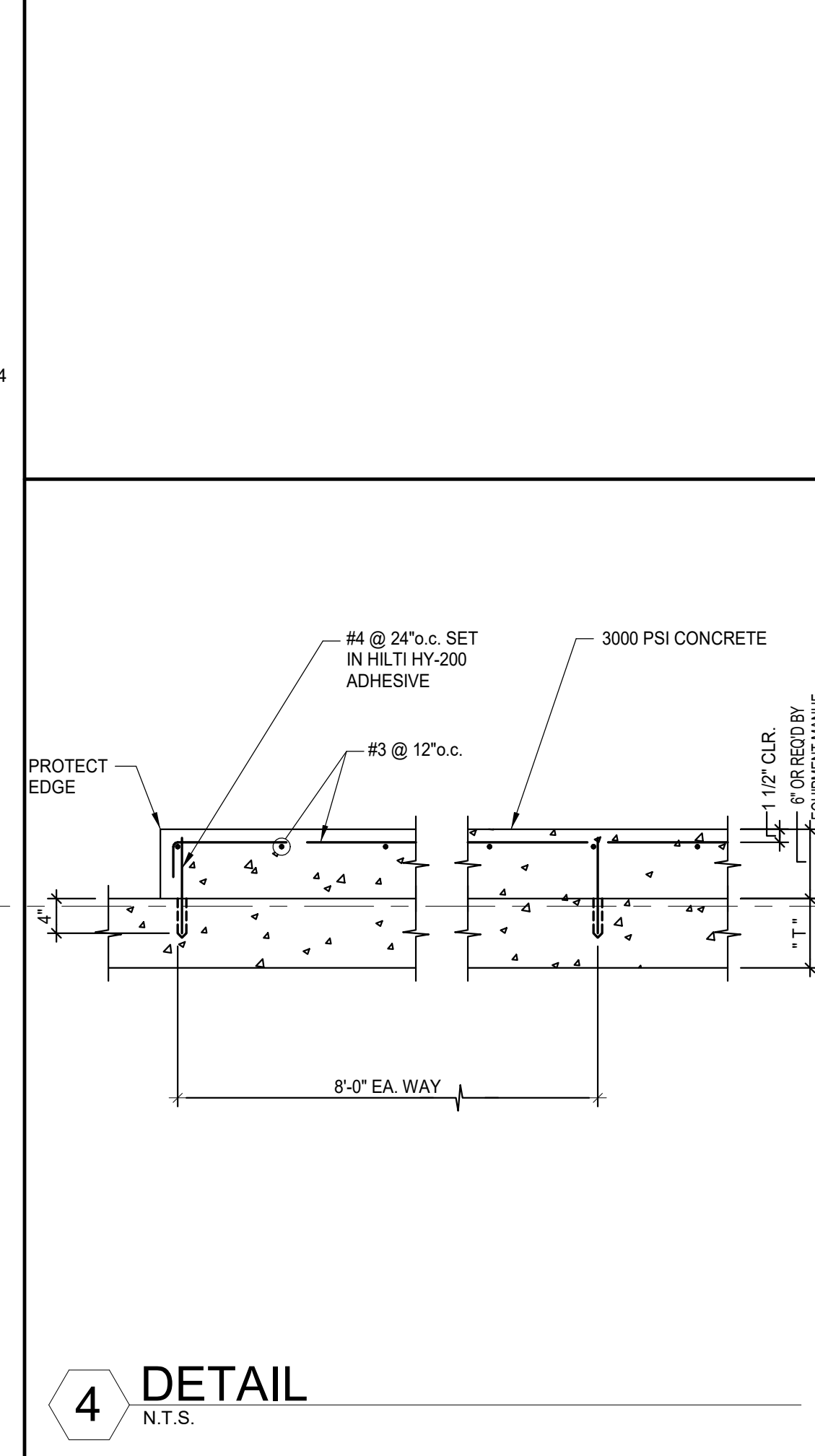
MN-3 PROVIDE GROUDED REINFORCED LINTELS WITH 8" BEARING EACH END OF ALL DOORS, WINDOWS, AND OTHER OPENINGS. USE ONE-COURSE LINTELS FOR OPENINGS UP TO 4'-0"; TWO-COURSE LINTELS FOR OPENINGS UP TO 6'-6"; THREE-COURSE LINTELS FOR OPENINGS UP TO 14'-0". REINFORCE EACH COURSE WITH 2-#5 BAR CONTINUOUS.

MN-4 PROVIDE MATCHING DOWELS IN FOUNDATION FOR ALL VERTICAL REINFORCEMENT.

MN-5 CMU SHALL HAVE A UNIT STRENGTH OF 1,900 PSI. USE TYPE S MORTAR. REINFORCED CMU SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 11111 500 PSI. GROUT FOR FILLED CELLS SHALL BE MADE OF CEMENT, SAND AND PEA GRAVEL IN APPROXIMATE RATIO OF 1:3:2 AND SHALL HAVE 28-DAY COMPRESSIVE STRENGTH OF 2,500 PSI.

MN-6 ANCHOR MASONRY TO STRUCTURE AS SHOWN IN DETAILS. SEE SPECIFICATIONS FOR ORDINARY MASONRY ANCHORS INCLUDING DOVETAIL ANCHOR SLOTS IN ADJACENT CONCRETE MEMBERS.

MN-7 LEVEL 1 INSPECTED MASONRY REQUIRES CONTRACTOR TO SUBMIT, AT CONTRACTOR'S COST, COMPRESSIVE WALL DESIGN STRENGTH (Fm) VERIFIED BY INDEPENDENT TESTING LAB BY PRISM TESTS BEFORE MASONRY CONSTRUCTION BEGINS. PROVIDE UNIT MASONRY STRENGTH, GROUT MIX DESIGN AND MORTAR MIX DESIGN.



MARK	W x D*	GRADE BEAM SCHEDULE	
		MAIN REINFORCING	TIES
GB1	12 x 24"	2-#6 x CONT. TOP & BOTTOM	#3 @ 24" O.C.
GB2	18 x 24"	3-#6 x CONT. TOP & BOTTOM	#3 @ 24" O.C.

* REF. NOTE FN-4

FOUNDATION NOTES:

FN-1 5" CONCRETE SLAB REINFORCED W/ #4 @ 12" O.C. EACH WAY IN TOP. SUPPORT AT 4'-0" O.C. EACH WAY WITH CONCRETE BLOCKS OR BRICKS. SUPPORT BOTTOM BEAM REINFORCEMENT AT 4'-0" INTERVALS.

FN-2 15 MIL. POLYOLEFIN VAPOR RETARDER UNLESS NOTES OTHERWISE IN SPECIFICATIONS. AT ALL JOINTS PROVIDE 6" LAPS W/ 4" TAPE.

FN-3 COMPACTED SELECT FILL (SEE UF-6 "UNDERFLOOR FILL NOTES").

FN-4 ALL BEAM SOFFITS SHALL BEAR 24" MINIMUM INTO NATURAL GRADE OR COMPACTED FILL. ON PERIMETER, INCREASE SCHEDULED BEAM DEPTH AS REQUIRED FOR SOFFIT TO BEAR 24" MINIMUM BELOW FINISH GRADE. REF GEOTECHNICAL REPORT. ALL PERIMETER GRADE BEAMS SHALL BEAR ON LIMESTONE.

FN-5 GRADE BEAMS AND SLAB TURNDOWNS SHALL BE FORMED BY WALLS AND SOFFIT OF CAREFULLY SHAPED TRENCH. USE A SMOOTH-MOUTHED BUCKET. IF A TOOTHED BUCKET IS USED, EXCAVATION SHALL BE STOPPED 6" ABOVE FINAL GRADE AND THE REMAINING EXCAVATION ACCOMPLISHED WITH A SMOOTH MOUTHED BUCKET OR BY HAND LABOR TO REMOVE ALL LOOSE SOILS DISTURBED BY THE BUCKET TEETH. WOODFORM EXPOSED FACES TO A DEPTH OF 8" BELOW FINISHED GRADE.

FN-6 AT ALL BEAM CORNERS & T-INTERSECTIONS, PROVIDE 4-#7 x 6'-0" CORNER BARS (2-TOP AND 2-BOTTOM).

FN-7 TRENCHES SHALL BE VERIFIED FOR SIZE TO MAINTAIN CLEARANCES AROUND REINFORCEMENT PRIOR TO PLACING REINFORCEMENT.

FN-8 WHERE BEAM DEPTH EXCEEDS 36", ADD #4 @ 12" O.C. IN EACH FACE OF BEAM.

UNDERFLOOR FILL NOTES:

UF-1 BEFORE ANY CONSTRUCTION IS BEGUN, PERFORM ROUGH GRADING AND CUT SWALES SO THAT GROUNDS WILL DRAIN AWAY FROM THE BUILDING. MAINTAIN DRAINAGE DURING ALL PHASES OF CONSTRUCTION SO THAT STORM WATER WILL BE CONDUCTED AWAY FROM THE BUILDING. KEEP EXCAVATIONS PUMPED FREE OF STORM WATER AT ALL TIMES.

UF-2 PRECAUTIONS SHALL BE TAKEN TO PROTECT OPEN EXCAVATIONS FROM EXCESSIVE LOSS OR GAIN IN NATURAL MOISTURE LEVEL PRIOR TO PLACEMENT OF BASE MATERIAL. KEEP MOIST DURING DRY WEATHER AND KEEP STORM WATER PUMPED OUT, INCLUDING NIGHTS AND WEEKENDS, DURING RAINS.

UF-3 IN THE AREA OCCUPIED BY THE FOUNDATION AND ALL ADJACENT SIDEWALKS, PLUS 3'-0", REMOVE A MINIMUM OF 7'-0" OF TOPSOIL INCLUDING ALL ORGANIC MATERIALS, ROOTS, ETC. FROM THE SITE. DO NOT USE FOR UNDERFLOOR FILL. REMOVE ADDITIONAL MATERIAL AS NECESSARY TO PROVIDE A MINIMUM OF 7'-0" OF SELECT FILL AS PER UF-6.

UF-4 THE RESULTING SURFACE SHALL BE PROOF ROLLED WITH A SUFFICIENTLY HEAVY ROLLER (15 TONS) TO LOCATE AND DENSITY WEAK AND COMPRESSIBLE ZONES. A MINIMUM OF 3 PHASSES OF THE ROLLER IS REQUIRED. ANY SOFT SPOTS SHALL BE REMOVED AND REPLACED WITH COMPACTED SELECT FILL.

UF-5 THE ROLLED SUBGRADE SHALL BE SCARIFIED JUST PRIOR TO FILL PLACEMENT TO A MINIMUM DEPTH OF 6" AND RECOMPACTED TO MINIMUM OF 95% OF THE MAXIMUM DENSITY DETERMINED BY ASTM D698 COMPACTION TEST, MAINTAINING MOISTURE CONTENT BETWEEN -1 AND +3 PERCENTAGE POINTS UNTIL COVERED.

UF-6 FOR A DISTANCE OF 3'-0" OUTSIDE OF THE BUILDING LINE AND ALL ADJACENT SIDEWALKS, AND BEGINNING AT THE LOW END, BUILD UP TO THE ELEVATION OF THE BOTTOM OF THE SLAB WITH SELECT CRUSHED STONE FILL CONFORMING TO TxDOT SPECIFICATIONS, ITEM 247, TYPE "A" GRADE 2. A MINIMUM THICKNESS OF 7'-0" IS REQUIRED. NO DIRT FILL SHALL BE USED UNDER THE BUILDING FOUNDATION. SUBMIT WRITTEN CERTIFICATION OF COMPLIANCE WITH TxDOT, ITEM 247 SPECIFICATIONS BY TEST PERFORMED ON FIELD EXAMPLES.

UF-7 ALL FILL SHALL BE PLACED IN 8" LOOSE HORIZONTAL LIFTS AND COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DENSITY AS DETERMINED BY ASTM D698 COMPACTION TEST. MAINTAINING MOISTURE CONTENT BETWEEN -1 AND +3 PERCENTAGE POINTS UNTIL COVERED. EXCESS FILL AT BUILDING PERIMETER SHALL BE CUT AND GRADED TO COMPLY WITH FINISHED GRADE REQUIREMENTS, AND SHALL BE OVERLAIN WITH A 1'-0" THICK LAYER OF IMPERVIOUS CLAY FOR A MINIMUM DISTANCE OF 5'-0" FROM BUILDING LINE. REFER TO DETAIL 7-7.

UF-8 PERFORM ALL EARTH WORK DESCRIBED ABOVE BEFORE TRENCHING FOR GRADE BEAMS OR MECHANICAL LINES.

UF-9 REFERENCE GEOTECHNICAL REPORT BY: ? PROJECT No. ?, DATED ?.



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TX Firm BR 1608

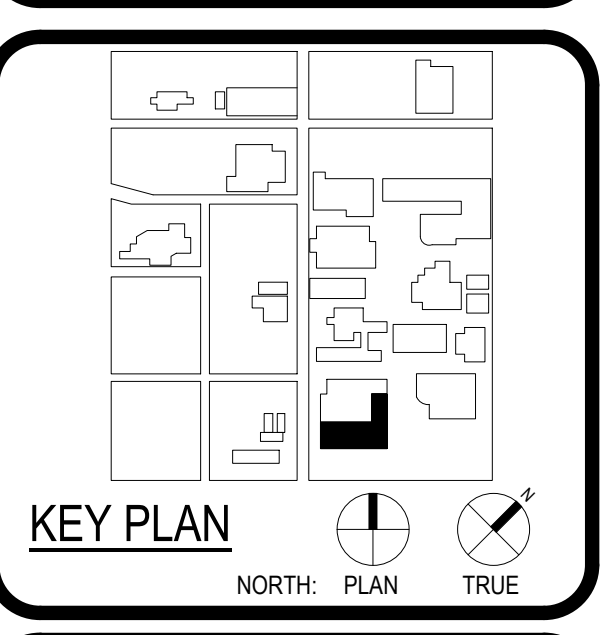
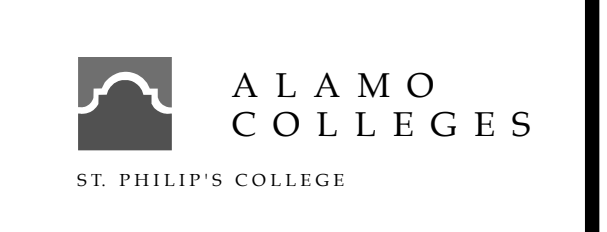


568 HEIMER ROAD
SAN ANTONIO, TEXAS 78232
TX FIRM REG. #3888

WFAC Black Box Addition PKG 1

1801 Marlin Luther King Dr.,
San Antonio, TX 78203

ISSUE FOR CONSTRUCTION



CLIENT	Alamo Colleges	
DATE	2024/05/23	
PROJECT NUMBER	230462	
DRAWING HISTORY		
No.	Description	Date

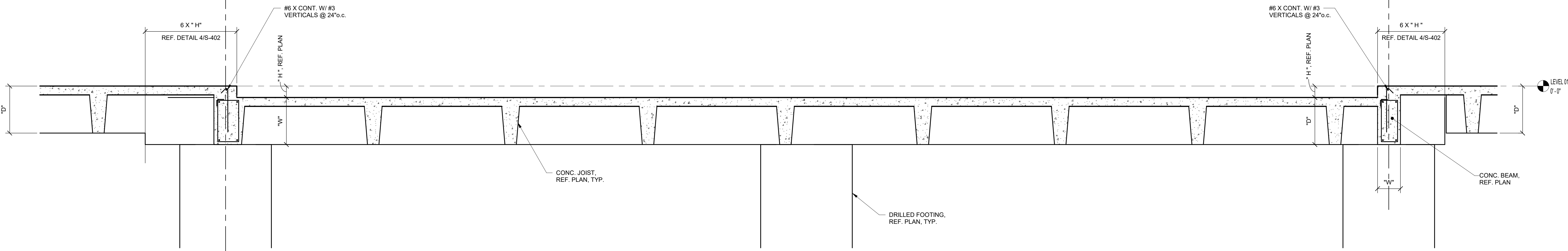
ISSUE FOR CONSTRUCTION
BUILDING NUMBER AB

SECTIONS, DETAILS & MECH. YARD FOUNDATION

S-301

ISSUE FOR CONSTRUCTION

LA PROJECT NO.: 09316-00
 LA FILE NO.: WFAC-Blackbox Addition- Structural R23



1 SECTION
 1/2" = 1'-0"

EE

W

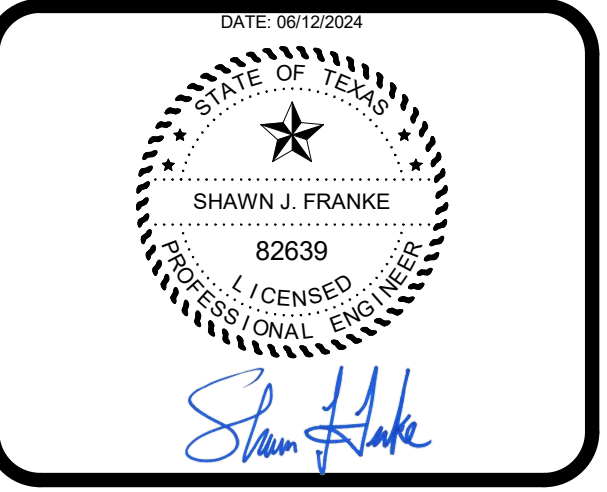
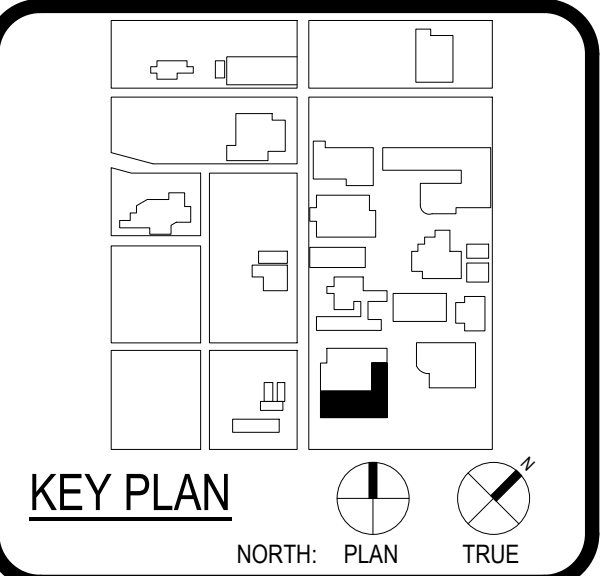


ARCHITECT	PBK Architects, Inc. 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-5578 F TX Firm BR 1606
ASSOCIATE ARCHITECT	BA ARCHITECTS 1100 W. Loop West San Antonio, TX 78204
CONSULTANT	LANDSCAPE ROSE AND DESIGN 1111 W. Loop West San Antonio, TX 78204
STRUCTURAL	LUNDY & FRANKE ENGINEERING 548 HEIMER ROAD SAN ANTONIO, TEXAS 78232 PH 210-979-7800 FX 210-979-7800 TX FIRM REG. #3388
MECHANICAL	
ELECTRICAL	
PLUMBING	
HAZARDOUS WASTE	
SOILS	
TRAVEL	
VEGETATION	
WATER	
WIND	



WFAC Black Box Addition PKG 1

1801 Marlin Luther King Dr.,
 San Antonio, TX 78203
 ISSUE FOR CONSTRUCTION

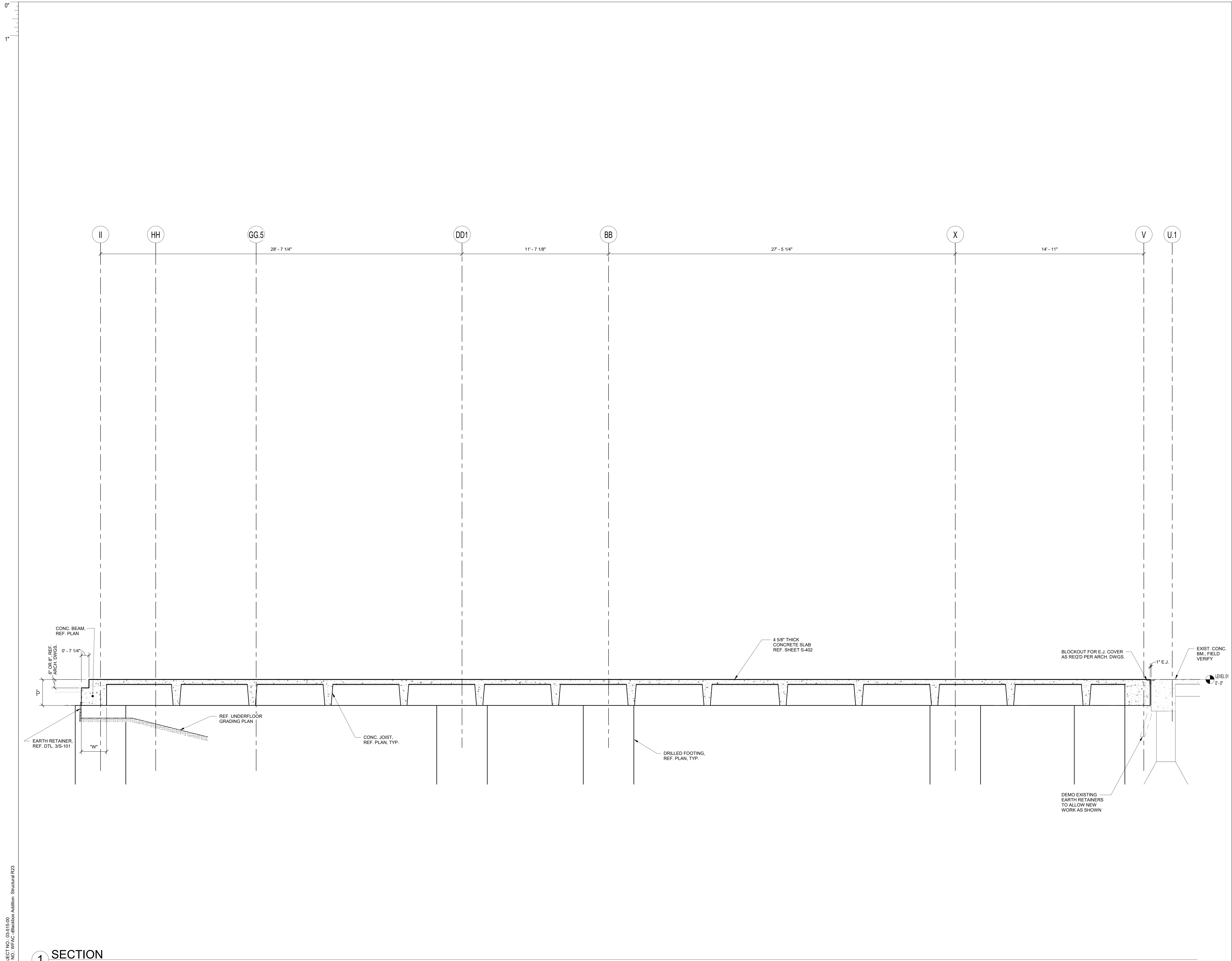


CLIENT		Alamo Colleges
DATE	PROJECT NUMBER	230462
2024/05/23		
DRAWING HISTORY		
No.	Description	Date
ISSUE FOR CONSTRUCTION		
BUILDING NUMBER	AB	

SECTION

S-302

ISSUE FOR CONSTRUCTION



1 SECTION
3/8" = 1'-0"

LA PROJECT NO.: 09316-00
LA FILE NO.: WFAC-38blackbox Addition, Structural R23

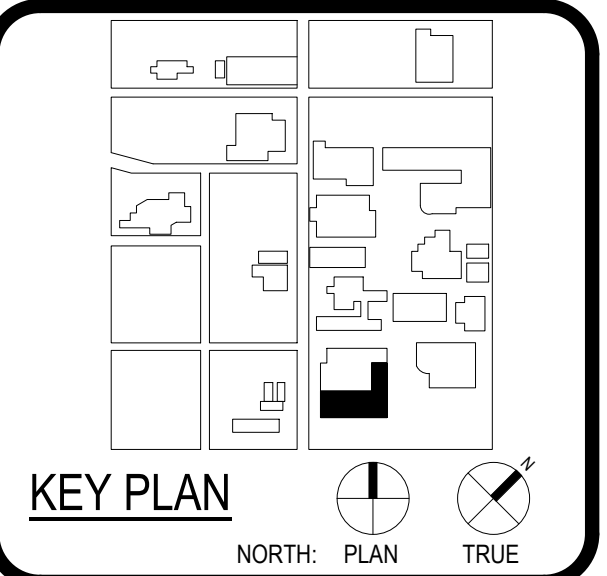


ARCHITECT	PBK Architects, Inc.
SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-820-0123 P 210-829-5578 F TX Firm BR 1606	
ASSOCIATE ARCHITECT	BA ARCHITECTS
DATE	05/23/24
DESIGNER	T.J. BOGUE
LANDSCAPE	
ROOF AND CEILING	
STRUCTURAL	LUNDY & FRANKE ENGINEERING
MEP	
PROVISIONS	
BEAM PROFESSIONALS	
MEASUREMENT	
DATE	12/01/2024

LUNDY & FRANKE ENGINEERING
548 HEIMER ROAD PH. (210) 979-7900
SAN ANTONIO, TEXAS 78232 FX. (210) 979-7800
TX FIRM REG. #3388

WFAC Black Box Addition PKG 1

1801 Main, Luther King Dr.,
San Antonio, TX 78203
ISSUE FOR CONSTRUCTION



DATE: 05/23/2024
SHAWN J. FRANKE
82639
LICENSED PROFESSIONAL ENGINEER
Shawn Franke

CLIENT	Alamo Colleges	
DATE	2024/05/23	
PROJECT NUMBER	230462	
DRAWING HISTORY		
No.	Description	Date

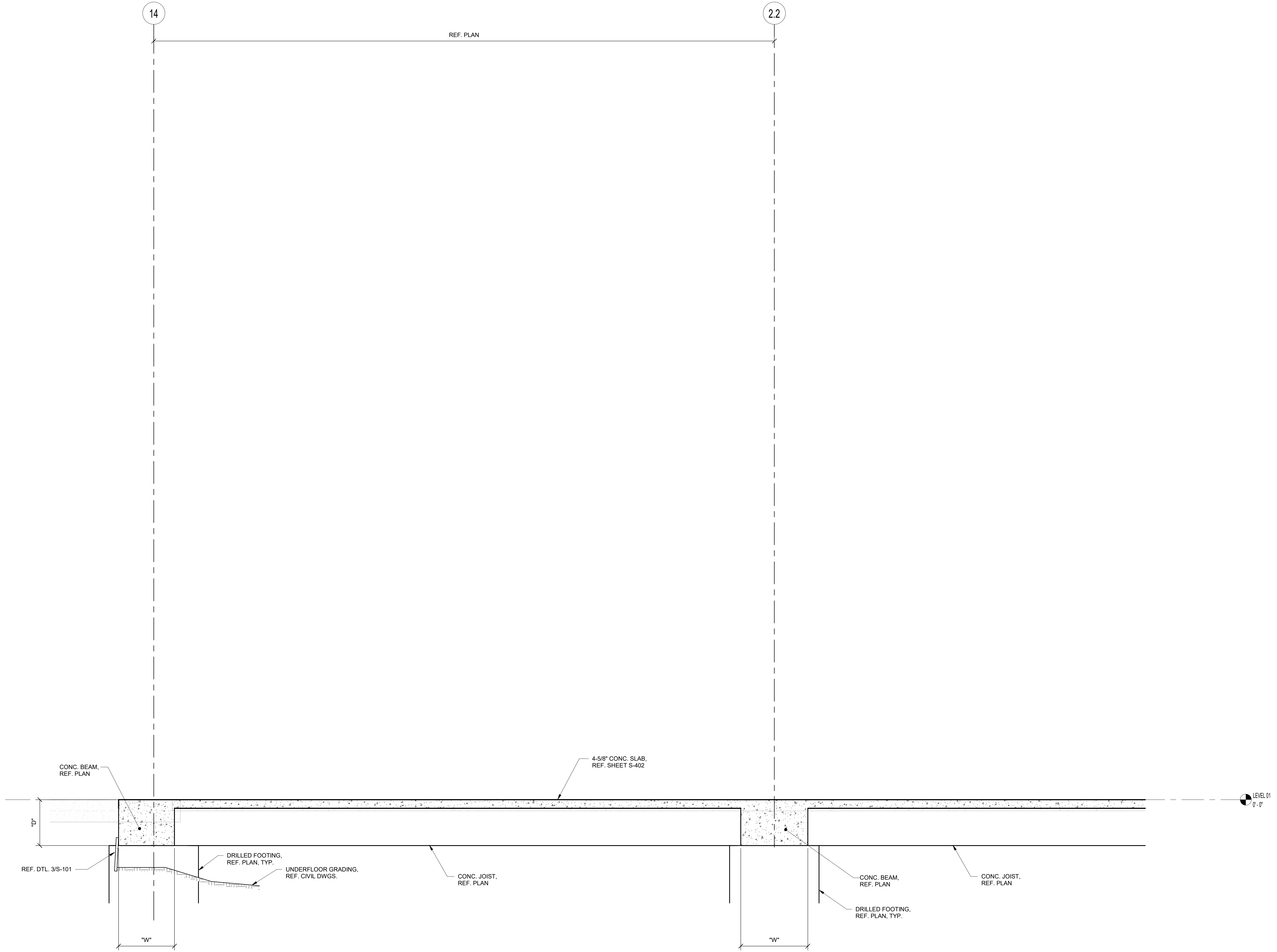
ISSUE FOR CONSTRUCTION
BUILDING NUMBER AB

SECTION

S-303

ISSUE FOR CONSTRUCTION

0'
1'



1 SECTION
1/2" = 1'-0"

LA PROJECT NO.: 09316-00
LA FILE NO.: WFAC-38blackbox Addition, Structural R23

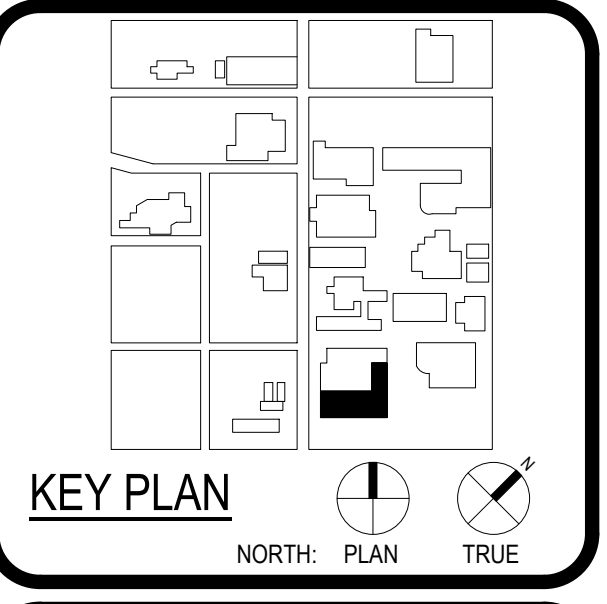


ARCHITECT	PBK Architects, Inc.
SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-5578 F TX Firm BR 1606	
ASSOCIATE ARCHITECT	BA ARCHITECTS
OWNER	ALAMO COLLEGES
DESIGNER	ALAMO COLLEGES
LANDSCAPE	ALAMO COLLEGES
ROSE AND DESIGN	ALAMO COLLEGES
STRUCTURAL	LUNDY & FRANKE ENGINEERING
MECHANICAL	LUNDY & FRANKE ENGINEERING
ELECTRICAL	LUNDY & FRANKE ENGINEERING
PLUMBING	LUNDY & FRANKE ENGINEERING
MECHANICAL	LUNDY & FRANKE ENGINEERING
MECHANICAL	LUNDY & FRANKE ENGINEERING



WFAC Black Box Addition PKG 1

1801 Mathis Luther King Dr.,
San Antonio, TX 78203
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CLIENT	Alamo Colleges
DATE	2024/05/23
PROJECT NUMBER	230462

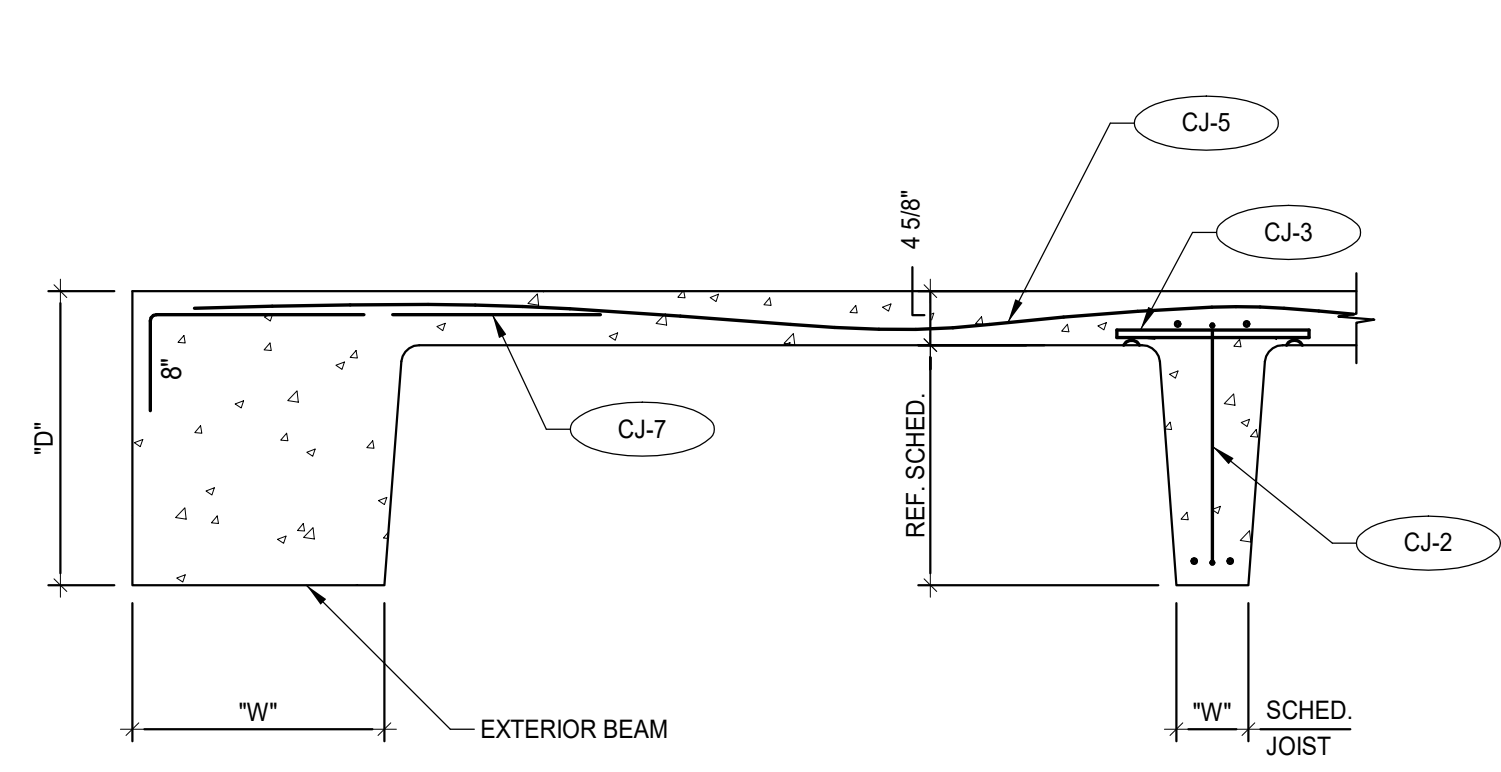
No.	Description	Date

ISSUE FOR CONSTRUCTION
BUILDING NUMBER AB

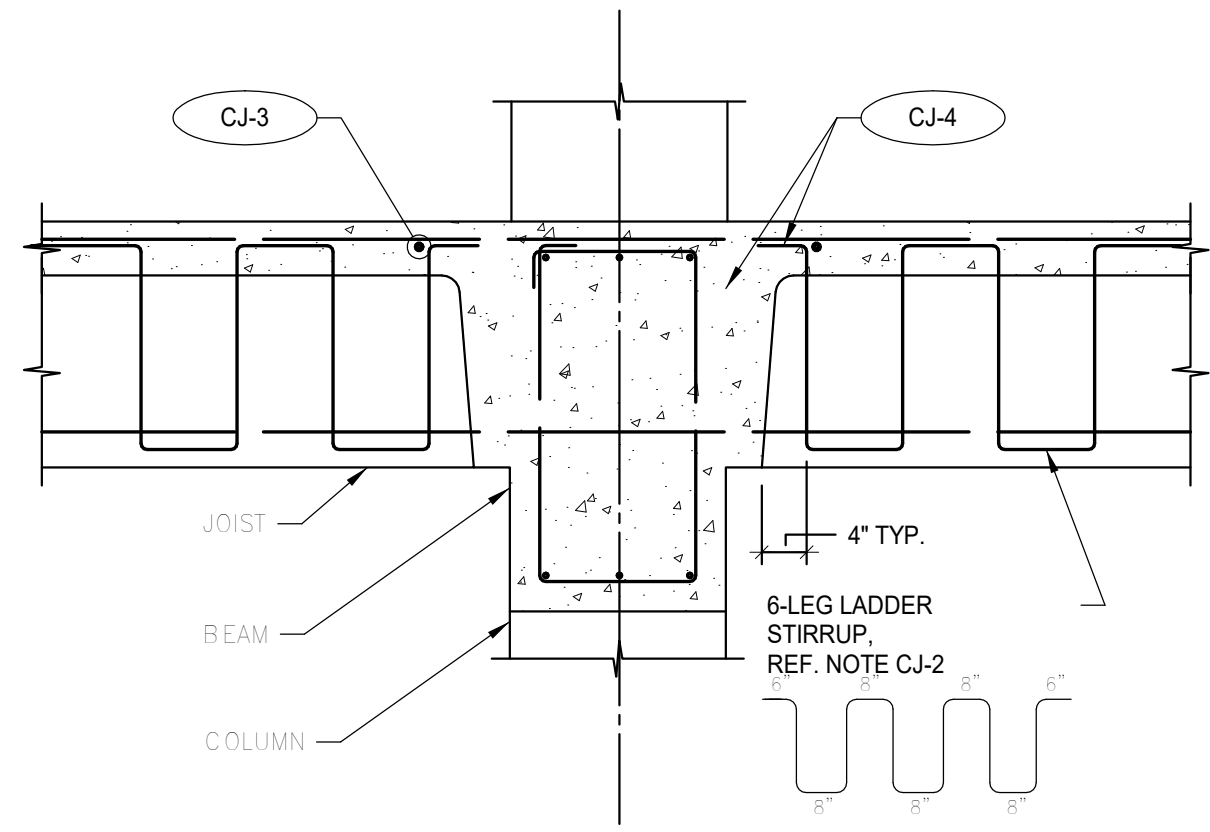
SECTION

S-306

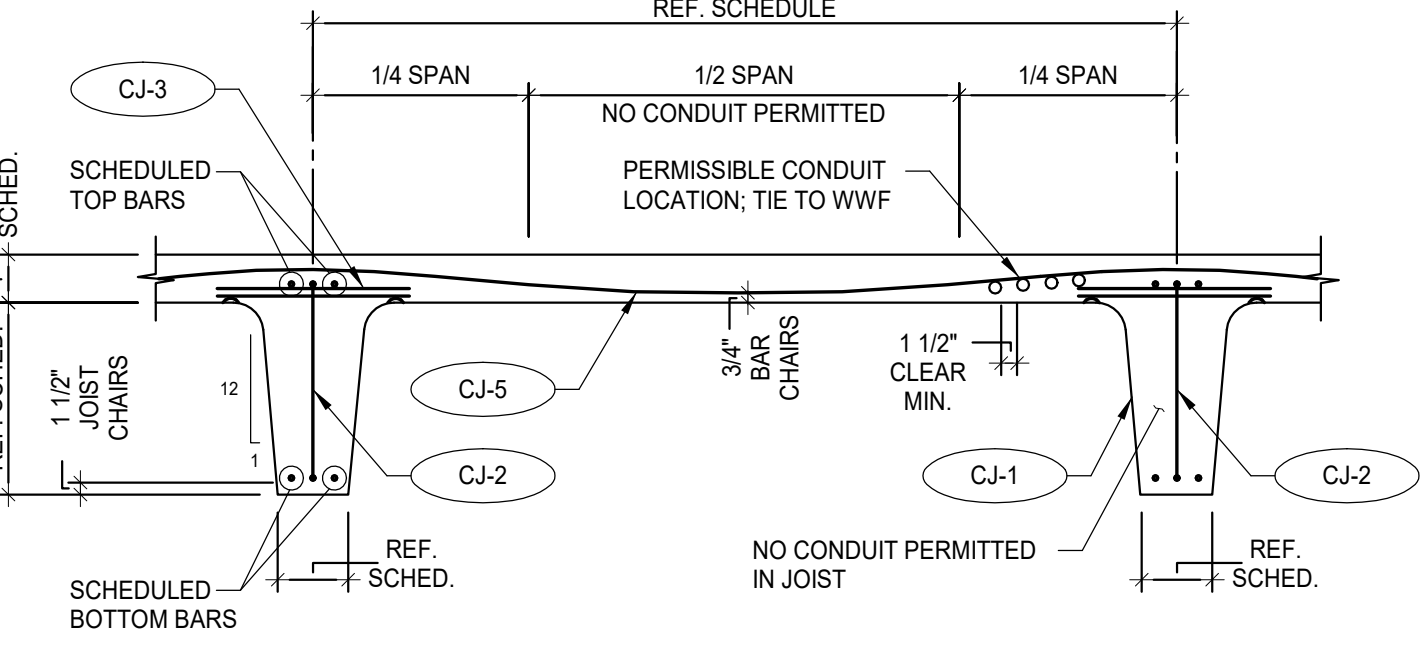
1st FLOOR CONCRETE JOIST SCHEDULE															
MARK	SIZE			MAIN REINFORCING						STIRRUPS			REMARKS		
	W	D	SECT.	SPCG.	TOP BARS		BOTTOM BARS		TOP BARS AT SUPPORT		SIZE	NO. LEGS		SPACING AT EACH END OF JOIST	
					REINF.	TYP.	REINF.	TYP.	REINF.	TYP.	SUPP.				
J1	6	20		6'-0"	2-#6	T2	1-#8	B6	-	-	-	#4	10	11" O.C.	
J2	6	20		6'-0"	1-#8	T3	1-#8	B3	-	-	-	#4	10	11" O.C.	
J3	6	20		6'-0"	1-#6	T1	1-#6	B1	-	-	-	#4	8	11" O.C.	



1 DETAIL TYP. REINF. @ SLAB DROP SCALE: 3/4" = 1'-0"



2 DETAIL TYP. SLAB REINF. @ ACCESS HATCH SCALE: 3/4" = 1'-0"



3 DETAIL TYP. SLAB SECT. @ FLR. DROP SCALE: 3/4" = 1'-0"

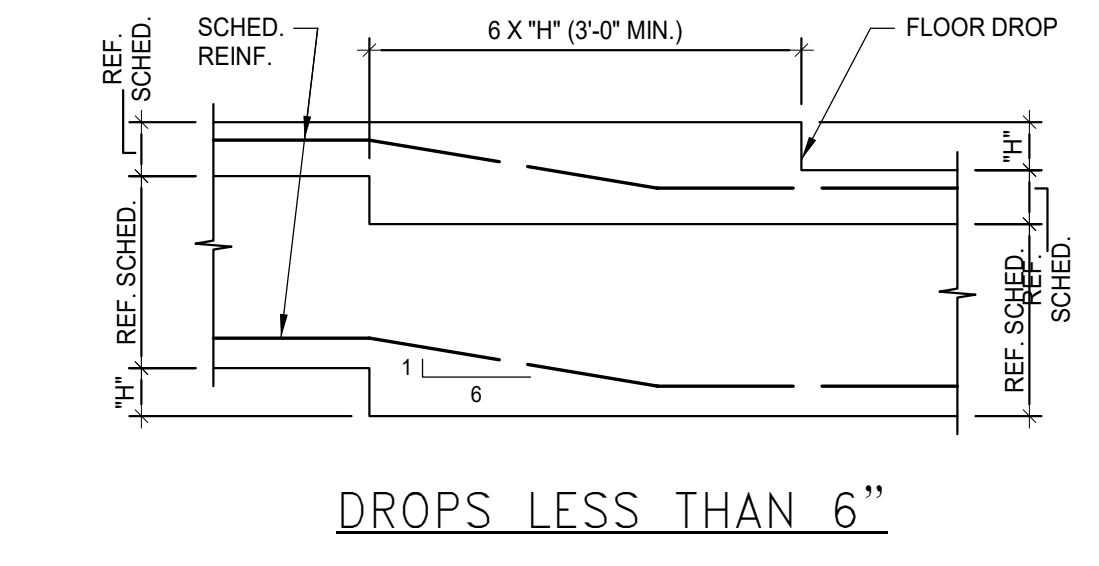


4 DETAIL TYP. REINF. @ SLAB DROP SCALE: 3/4" = 1'-0"

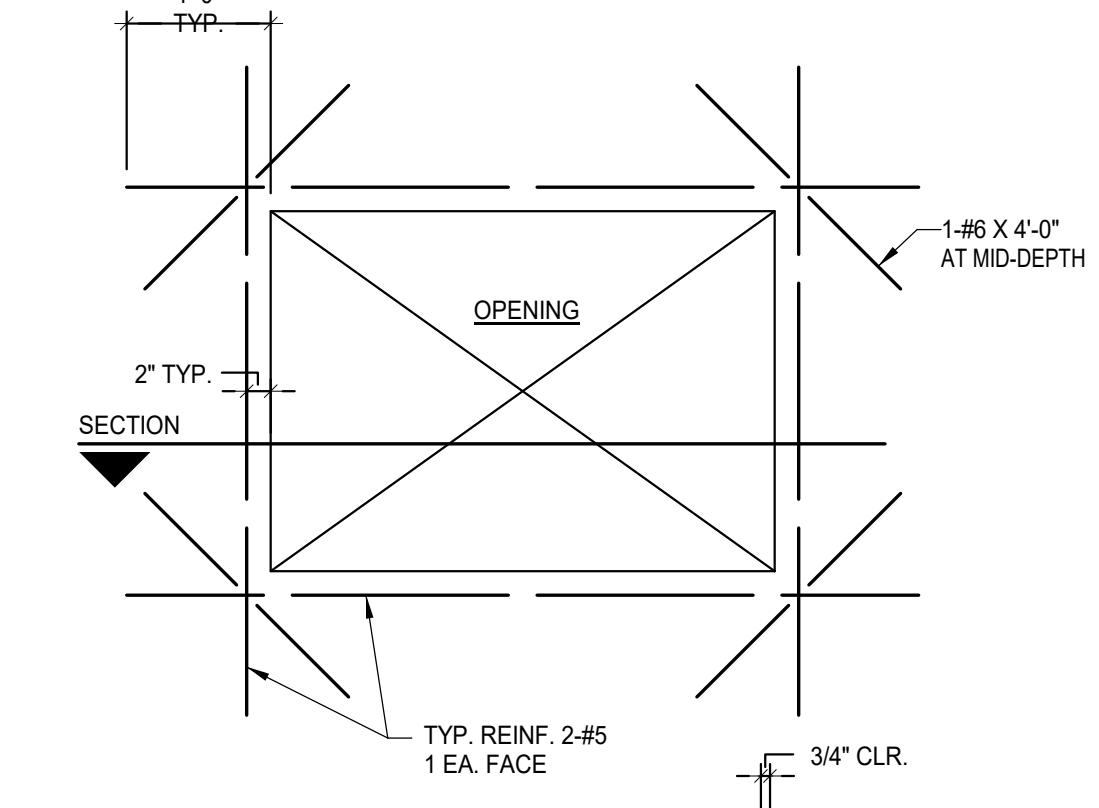
5 DETAIL TYP. SECT. @ REINF. BM. SCALE: 3/4" = 1'-0"

6 DETAIL TYP. SECT. @ INT. BM. SCALE: 3/4" = 1'-0"

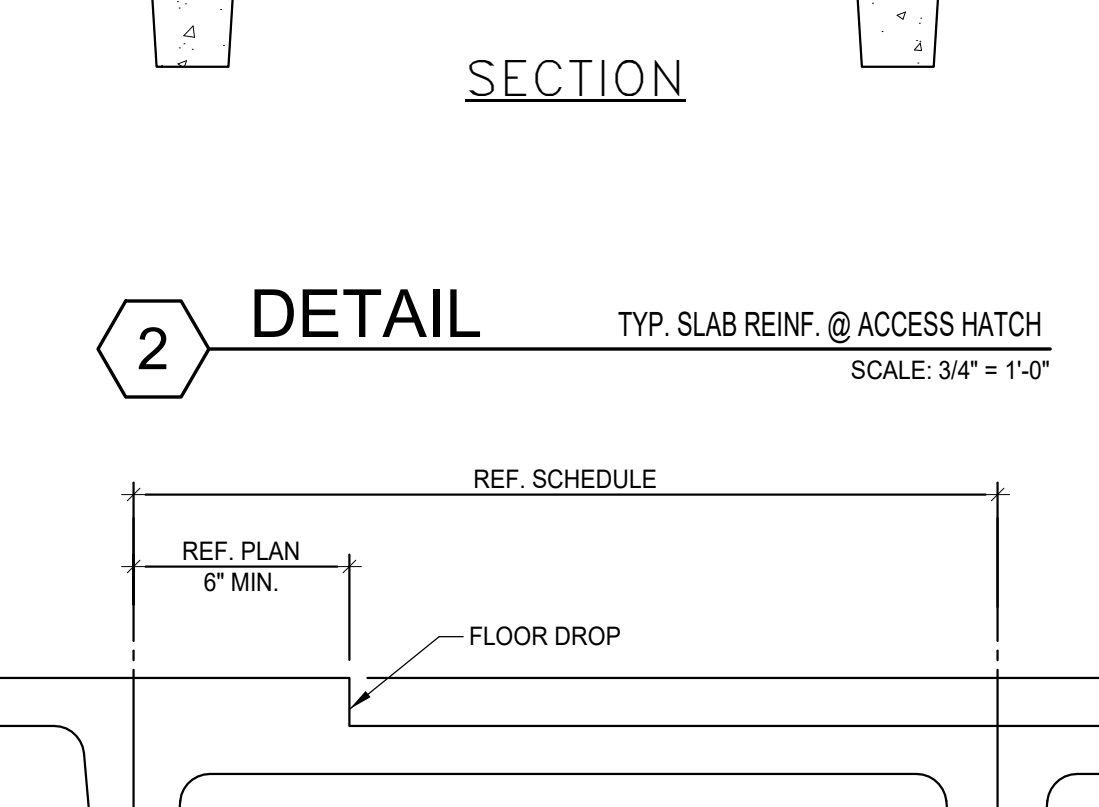
7 DETAIL TYP. ALLOWABLE CONDUIT PLACEMENT SCALE: 3/4" = 1'-0"



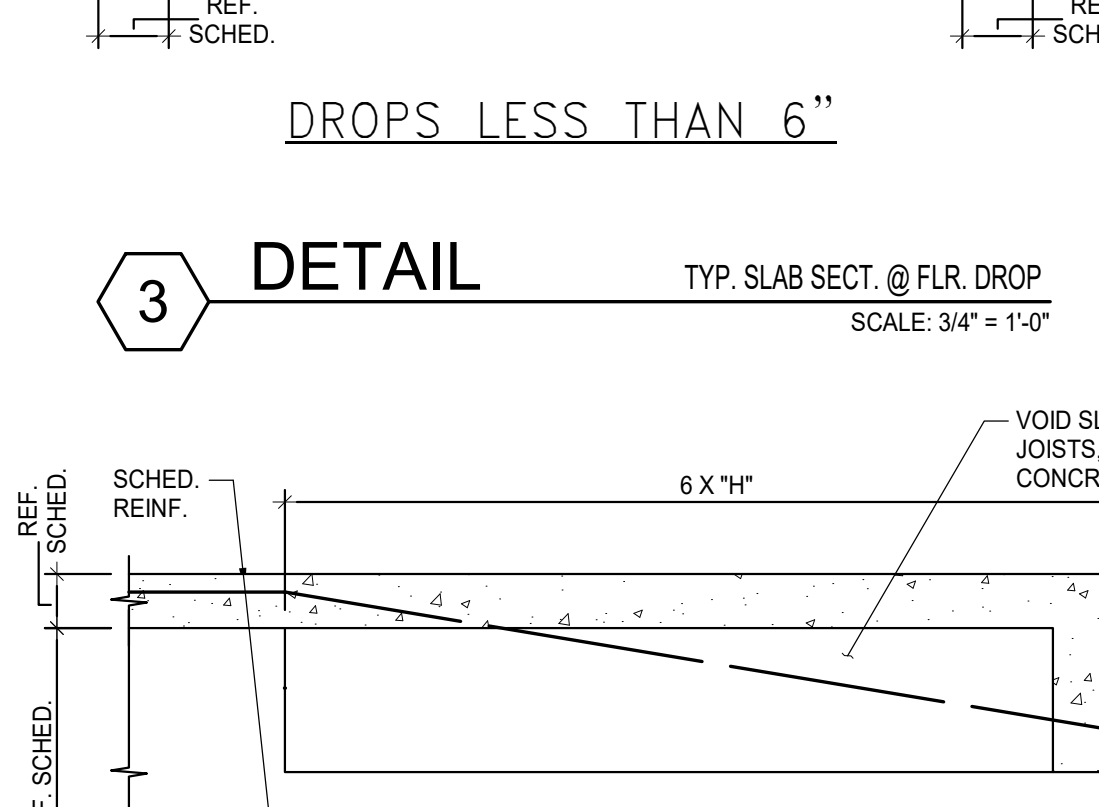
1 DETAIL TYP. REINF. @ SLAB DROP SCALE: 3/4" = 1'-0"



2 DETAIL TYP. SLAB REINF. @ ACCESS HATCH SCALE: 3/4" = 1'-0"



3 DETAIL TYP. SLAB SECT. @ FLR. DROP SCALE: 3/4" = 1'-0"



4 DETAIL TYP. REINF. @ SLAB DROP SCALE: 3/4" = 1'-0"

5 DETAIL TYP. SECT. @ REINF. BM. SCALE: 3/4" = 1'-0"

6 DETAIL TYP. SECT. @ INT. BM. SCALE: 3/4" = 1'-0"

7 DETAIL TYP. ALLOWABLE CONDUIT PLACEMENT SCALE: 3/4" = 1'-0"

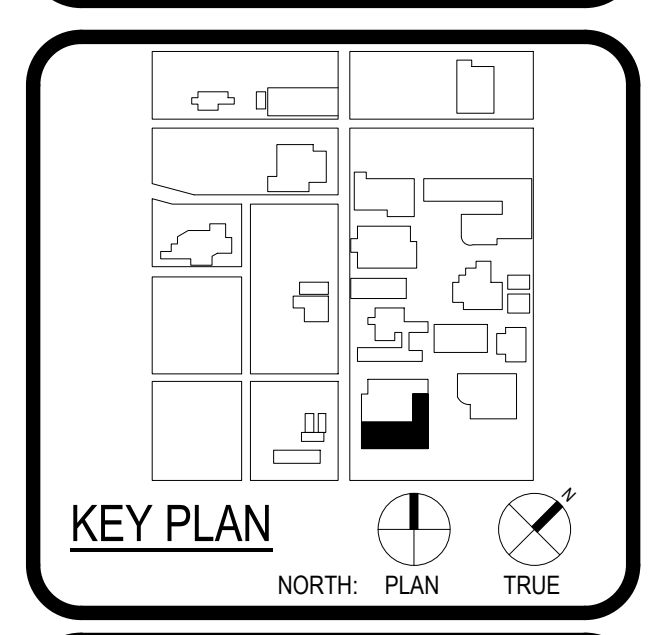
- CONCRETE JOIST NOTES:**
- CJ-1 STEEL PAN-JOIST FORMS SHALL BE SPACED SO THAT JOISTS IN ADJACENT SPANS ARE IN EXACT ALIGNMENT UNLESS SHOWN OTHERWISE. NARROWER WIDTH FORMS SHALL BE COORDINATED WITH BASIC SPACING WHERE MAKE-UPS ARE REQUIRED.
 - CJ-2 WHERE STIRRUPS ARE SCHEDULED, (1) 6-LEG LADDER STIRRUP ASSEMBLY WITH VERTICAL LEGS AT 11" O.C. IS THE MINIMUM. IF SCHEDULE CALLS FOR MORE THAN 6 LEGS, USE A COMBINATION OF LADDER STIRRUP ASSEMBLIES TO PROVIDE REQUIRED NUMBER OF LEGS AT SPACING SCHEDULED.
 - CJ-3 JOIST TOP BARS SHALL BE SUPPORTED ON 1" DIA. X 1'-0" SUPPORT BARS PLACED ON 3/4" BAR CHAIRS ACROSS PAN FORMS AT 4'-0" O.C. TIED TO STIRRUPS BEGINNING AT FIRST LEG.
 - CJ-4 BEAM STEEL SHALL HAVE CLEARANCE OF 1-1/2" TO STIRRUPS AT BOTTOM AND SIDES BUT 2-1/2" AT TOP. JOIST STEEL SHALL HAVE CLEARANCE OF 1-1/2". THEREFORE, REINFORCEMENT SHALL BE PLACED IN THE FOLLOWING SEQUENCE:
 1. PLACE ALL BEAM BARS.
 2. PLACE BOTTOM JOIST BARS.
 3. PLACE SUPPORT BARS (NOTE CJ-3).
 4. PLACE TOP JOIST BARS.
 5. PLACE EXTRA SLAB BARS (NOTE CJ-7).
 6. PLACE WELDED WIRE FABRIC.
 - CJ-5 REINFORCE SLAB WITH 4x4-W3.5x3.5 WELDED WIRE FABRIC, LAPPED 1-1/2 MESHES AT SPLICES. DRAPE OVER TOP JOIST BARS AND TIE DOWN SECURELY IN BOTTOM OF SLAB MIDWAY BETWEEN JOISTS. 3/4" OFF BOTTOM WITH BAR CHAIRS AND TIED TO FROM AT 24" O.C. MESH SHALL EXTEND OVER THE ENTIRE WIDTH OF BEAMS.
 - CJ-6 WHERE FLOOR DROPS (DEPRESSIONS) OCCUR, ADJUST PAN FORMS SO THAT SLAB THICKNESS IS MAINTAINED AS SHOWN IN DETAILS.
 - CJ-7 WHERE JOIST RUN PARALLEL TO BEAMS OR WALLS, PROVIDE #3 DOWELS AT 2'-0" O.C. AT EDGE BEAMS ONLY. (SEE DETAIL).
 - CJ-8 UNLESS SPECIFICALLY SHOWN ON FRAMING PLANS, JOISTS SHALL NOT BE INTERRUPTED OR REDUCED IN CROSS SECTIONAL AREAS WITHOUT ENGINEER'S APPROVAL.
 - CJ-9 IF VERTICAL MECHANICAL SLEEVE PROJECTS INTO A JOIST BY MORE THAN 1-1/2", WIDEN JOIST BY USING NEXT SMALLER PAN WIDTH FOR A DISTANCE OF 4'-0" BOTH SIDES OF SLEEVE AND FIELD DRAPE BARS AROUND SLEEVES (NO TORCHING).
 - CJ-10 CONDUITS IN 4-1/2" SLABS SHALL NOT BE LARGER THAN 1" DIAMETER, WHERE CONDUIT IS PARALLEL (OR NEARLY PARALLEL) TO JOIST, DO NOT LOCATE IN CENTER THIRD OF SLAB SPAN.
 - CJ-11 PROVIDE 6" WIDE BRIDGING JOIST WHERE INDICATED "BJ" ON PLAN. REINFORCE WITH 1-#6 CONTINUOUS TOP AND BOTTOM AND ANCHOR INTO TERMINAL BEAMS WITH #6 X 5'-0" CORNER BAR TOP AND BOTTOM.
 - CJ-12 WHERE PARTITIONS RUNNING PARALLEL TO JOISTS ARE DESIGNATED BY THE SYMBOL ON THE FRAMING PLAN, OR NOTED ON ARCHITECTURAL DRAWINGS, ADD #4 X 6'-0" AT 9" O.C. FOR ENTIRE LENGTH OF JOIST SPAN IN BOTTOM OF SLAB ON 3/4" BAR CHAIRS, RUNNING PERPENDICULAR TO JOISTS FROM JOIST CENTERLINE TO JOIST CENTERLINE.



ARCHITECT SAN ANTONIO
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ENGINEERING
LUNDY & FRANKE
 ENGINEERING
 588 HEIMER ROAD PH 018 979-7900
 SAN ANTONIO, TEXAS 78232 FX 018 979-7800
 TX FIRM REG. #3388

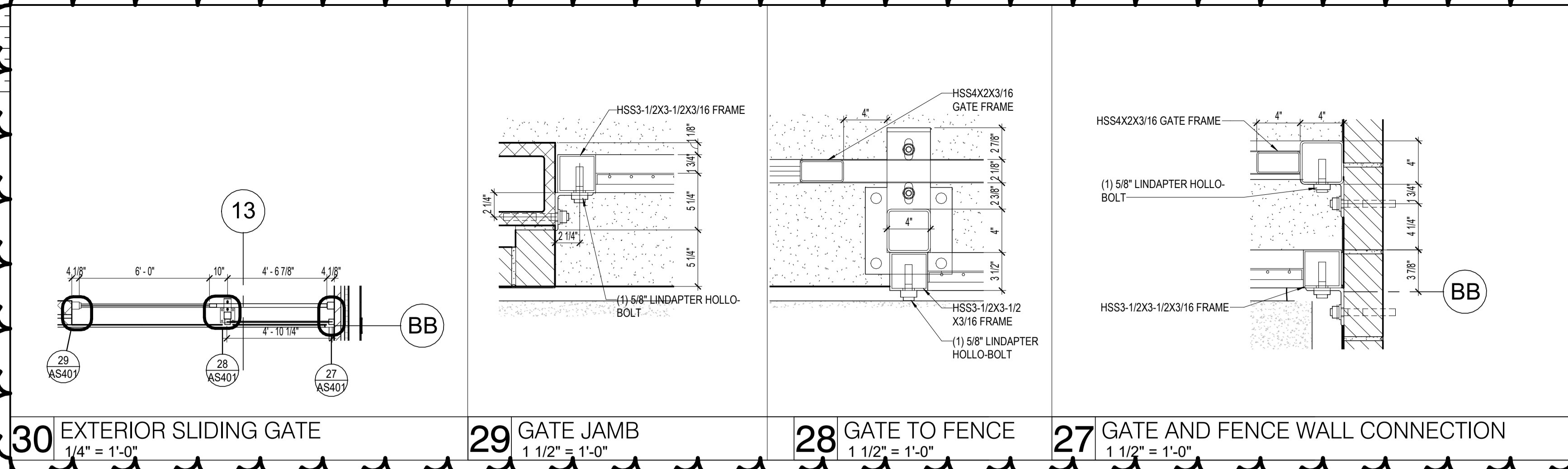
WFAC Black Box Addition PKG 1
 1801 Marlin Luther King Dr.,
 San Antonio, TX 78203
 ISSUE FOR CONSTRUCTION



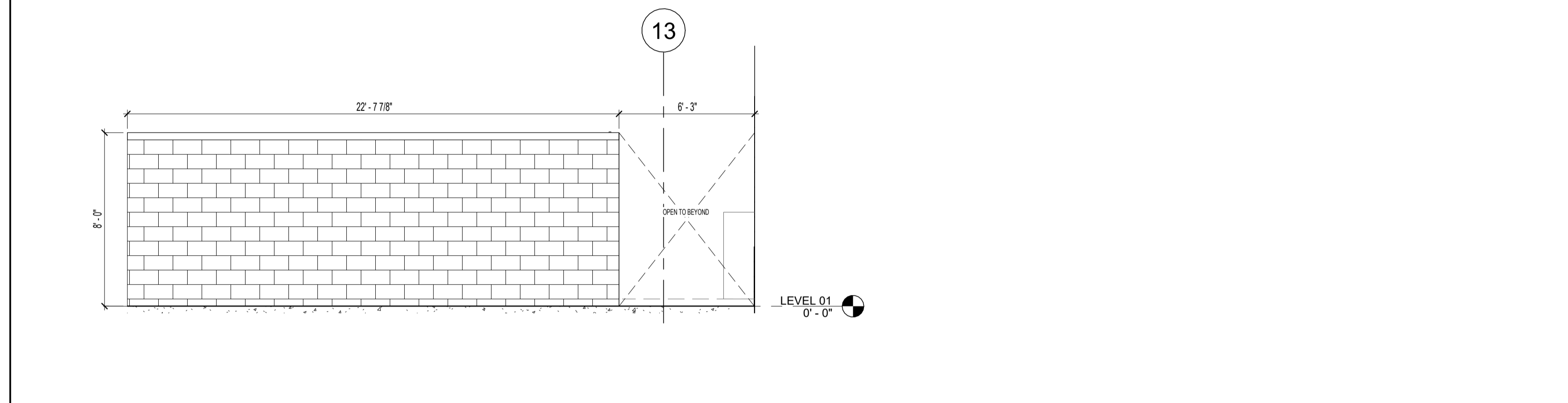
CLIENT		
Alamo Colleges	PROJECT NUMBER	
DATE	230462	
2024/05/23		
DRAWING HISTORY		
No.	Description	Date

ISSUE FOR CONSTRUCTION
 BUILDING NUMBER AB

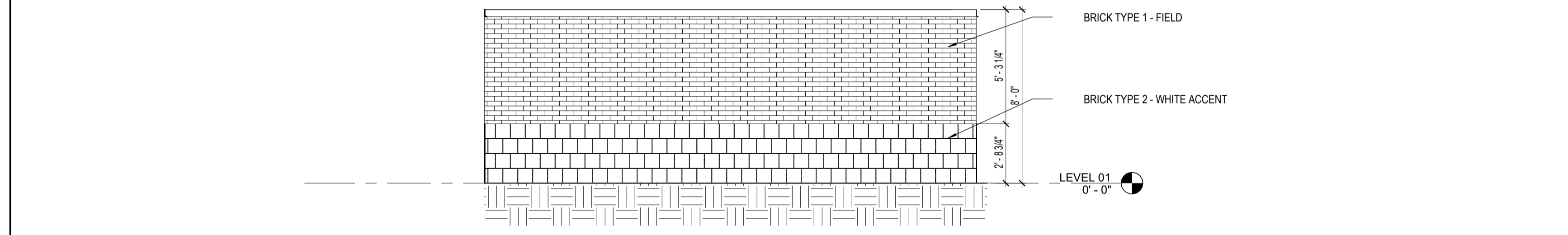
CONC. JOIST SCHED,
 NOTES & DETAILS



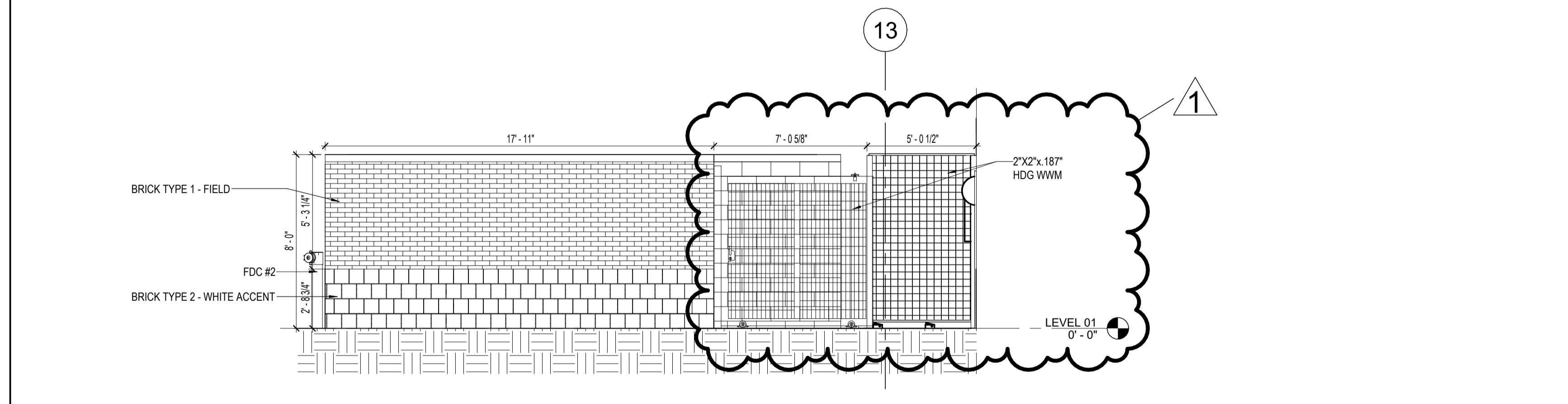
30 EXTERIOR SLIDING GATE 1/4" = 1'-0"
29 GATE JAMB 1 1/2" = 1'-0"
28 GATE TO FENCE 1 1/2" = 1'-0"
27 GATE AND FENCE WALL CONNECTION 1 1/2" = 1'-0"



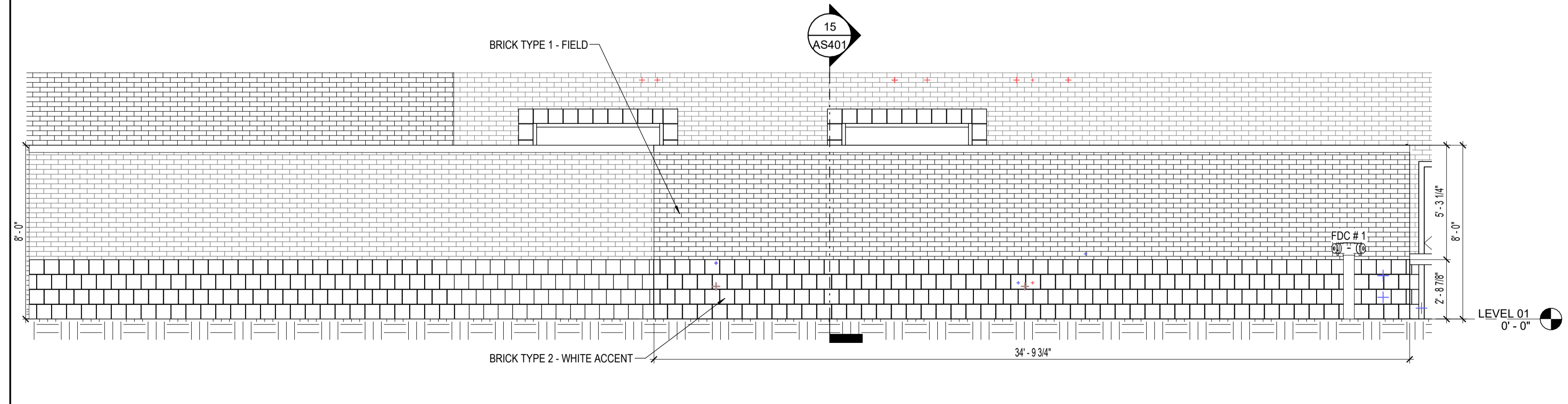
24 NORTH EQUIPMENT ELEVATION 1/4" = 1'-0"



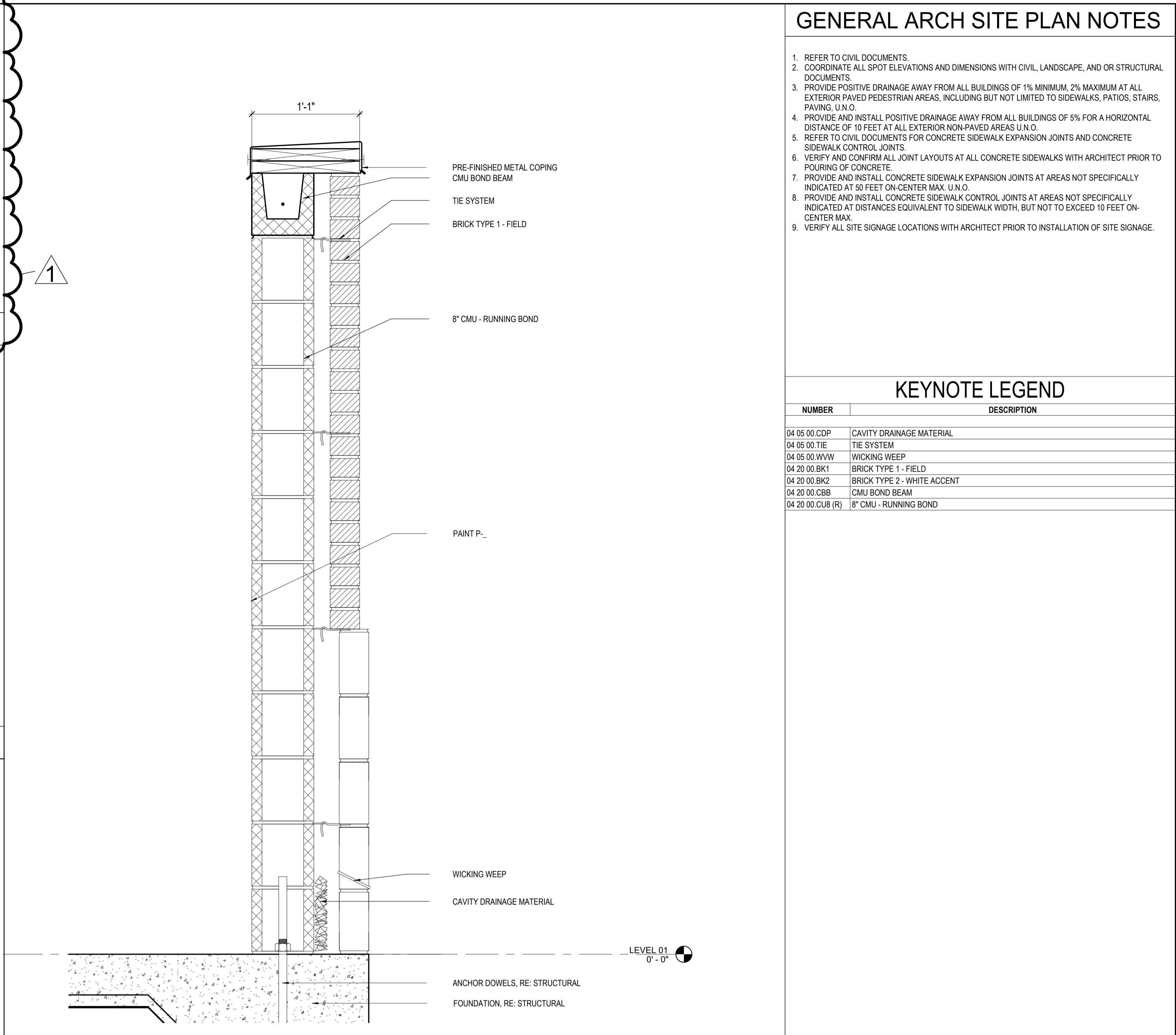
18 EQUIPMENT ELEVATION NORTH 1/4" = 1'-0"



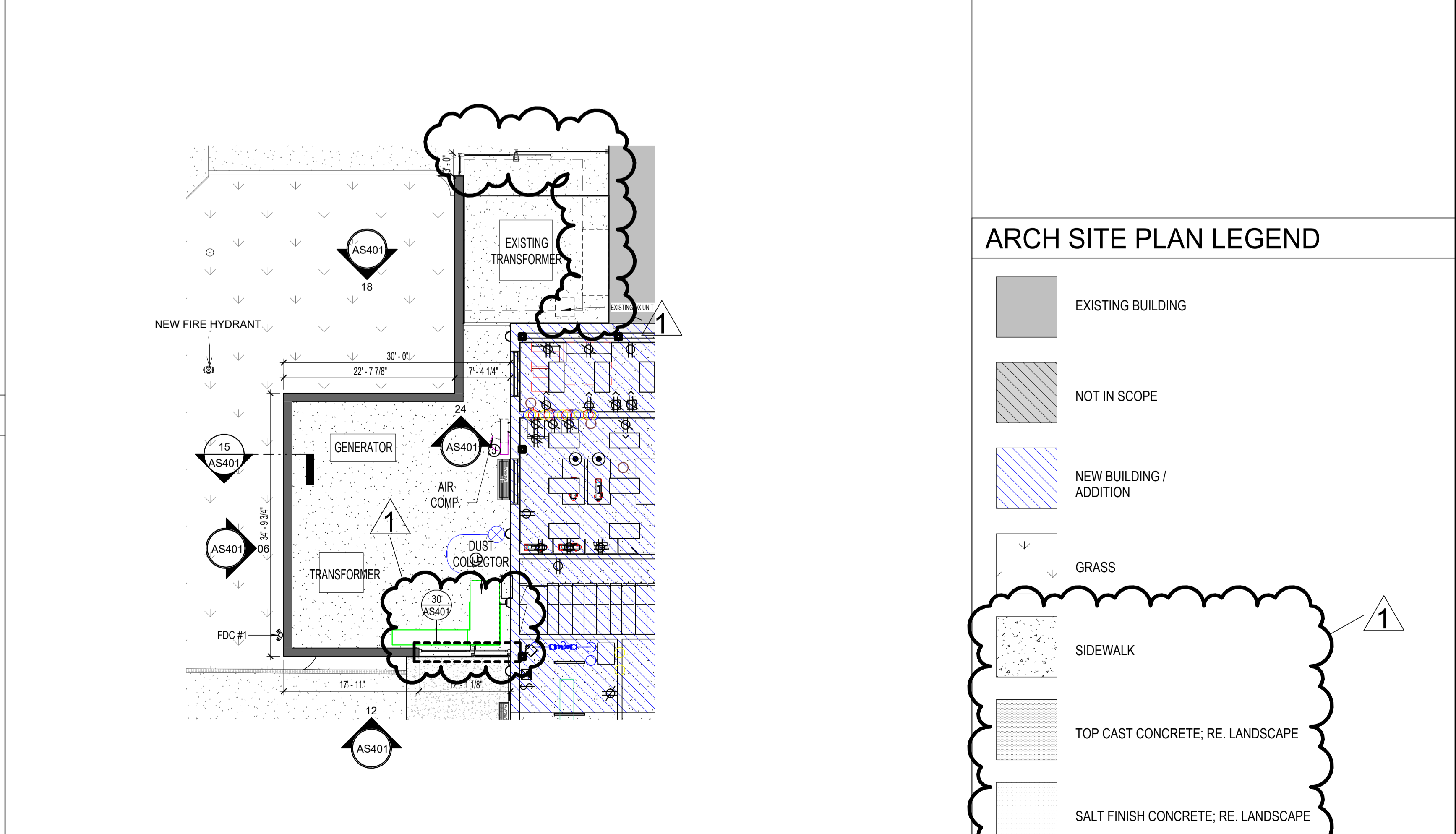
12 EQUIPMENT ELEVATION SOUTH 1/4" = 1'-0"



06 EQUIPMENT ELEVATION EAST 1/4" = 1'-0"



15 CMU WALL SECTION 1 1/2" = 1'-0"



03 EQUIPMENT ENCLOSURE 3/32" = 1'-0"

GENERAL ARCH SITE PLAN NOTES

- REFER TO CIVIL DOCUMENTS.
- COORDINATE ALL SPOT ELEVATIONS AND DIMENSIONS WITH CIVIL, LANDSCAPE, AND OR STRUCTURAL DOCUMENTS.
- PROVIDE POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS OF 1% MINIMUM, 2% MAXIMUM AT ALL EXTERIOR PAVED PEDESTRIAN AREAS, INCLUDING BUT NOT LIMITED TO SIDEWALKS, PATIOS, STAIRS, PAVING, U.N.O.
- PROVIDE AND INSTALL POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS OF 5% FOR A HORIZONTAL DISTANCE OF 10 FEET AT ALL EXTERIOR NON-PAVED AREAS U.N.O.
- REFER TO CIVIL DOCUMENTS FOR CONCRETE SIDEWALK EXPANSION JOINTS AND CONCRETE SIDEWALK CONTROL JOINTS.
- VERIFY AND CONFIRM ALL JOINT LAYOUTS AT ALL CONCRETE SIDEWALKS WITH ARCHITECT PRIOR TO POURING OF CONCRETE.
- PROVIDE AND INSTALL CONCRETE SIDEWALK EXPANSION JOINTS AT AREAS NOT SPECIFICALLY INDICATED AT 50 FEET ON-CENTER MAX. U.N.O.
- PROVIDE AND INSTALL CONCRETE SIDEWALK CONTROL JOINTS AT AREAS NOT SPECIFICALLY INDICATED AT DISTANCES EQUIVALENT TO SIDEWALK WIDTH, BUT NOT TO EXCEED 10 FEET ON-CENTER MAX.
- VERIFY ALL SITE SIGNAGE LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION OF SITE SIGNAGE.

KEYNOTE LEGEND

NUMBER	DESCRIPTION
04 05 00 CDP	CAVITY DRAINAGE MATERIAL
04 05 00 TIE	TIE SYSTEM
04 05 00 WWV	WICKING WEEP
04 20 00 BK1	BRICK TYPE 1 - FIELD
04 20 00 BK2	BRICK TYPE 2 - WHITE ACCENT
04 20 00 CBB	CMU BOND BEAM
04 20 00 CUB (R)	8\"/>

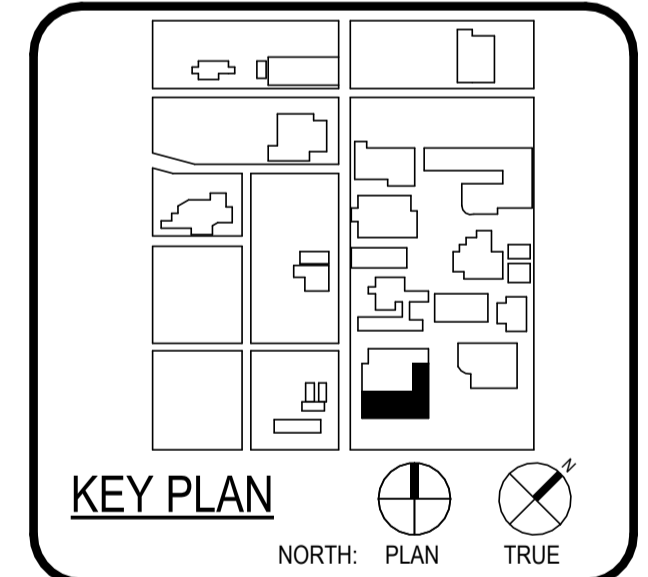
ARCH SITE PLAN LEGEND

- EXISTING BUILDING
- NOT IN SCOPE
- NEW BUILDING / ADDITION
- GRASS
- SIDEWALK
- TOP CAST CONCRETE, RE. LANDSCAPE
- SALT FINISH CONCRETE, RE. LANDSCAPE



ARCHITECT **PBK Architects, Inc.**
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210-820-0578 F
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P&C.com

WFAC Black Box Addition PKG 1

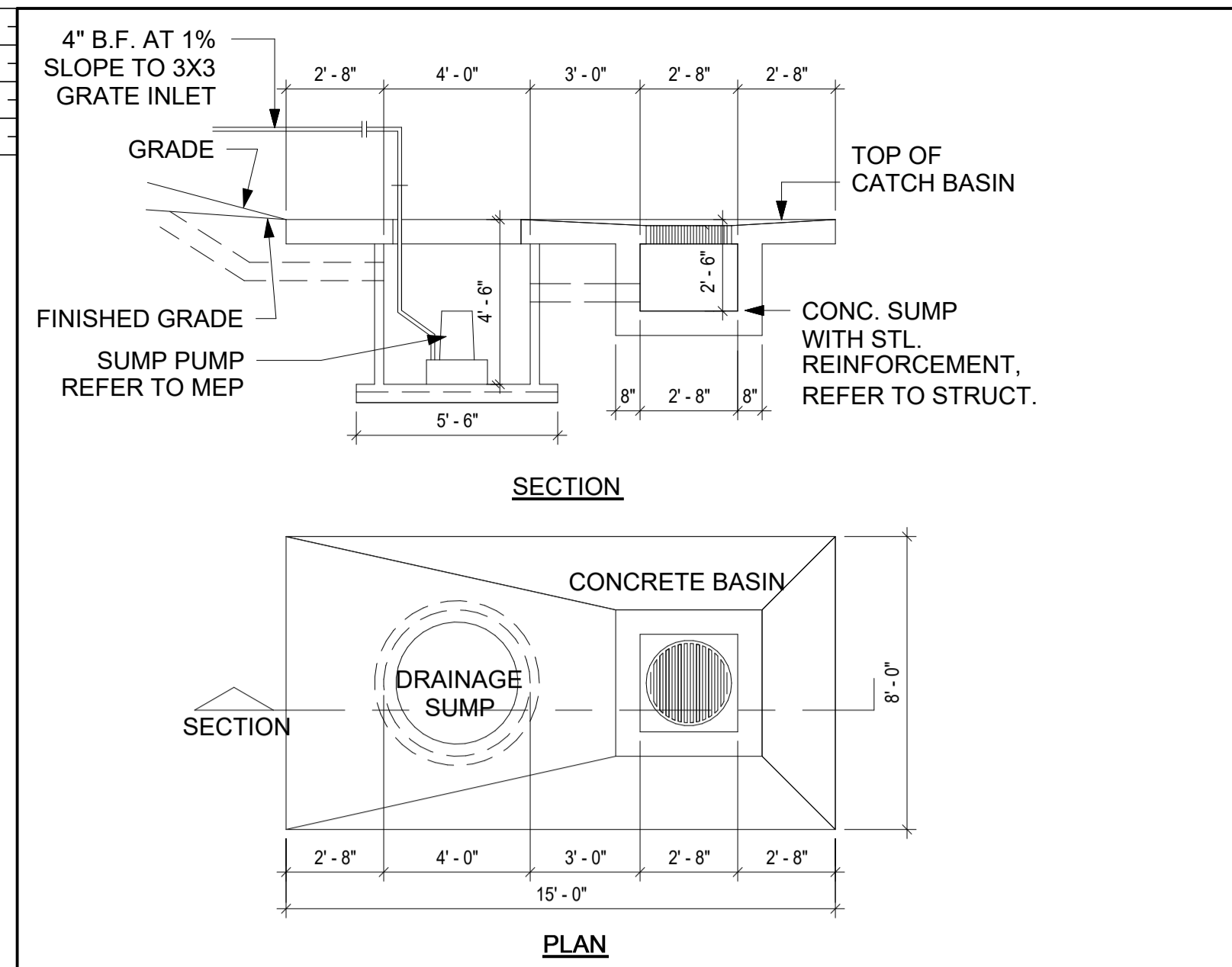


CLIENT		
Alamo Colleges	PROJECT NUMBER	
DATE	230462	
2024/06/14		
DRAWING HISTORY		
No.	Description	Date
1	ASI #1 - CITY & OWNER COMMENTS	6-14-2024

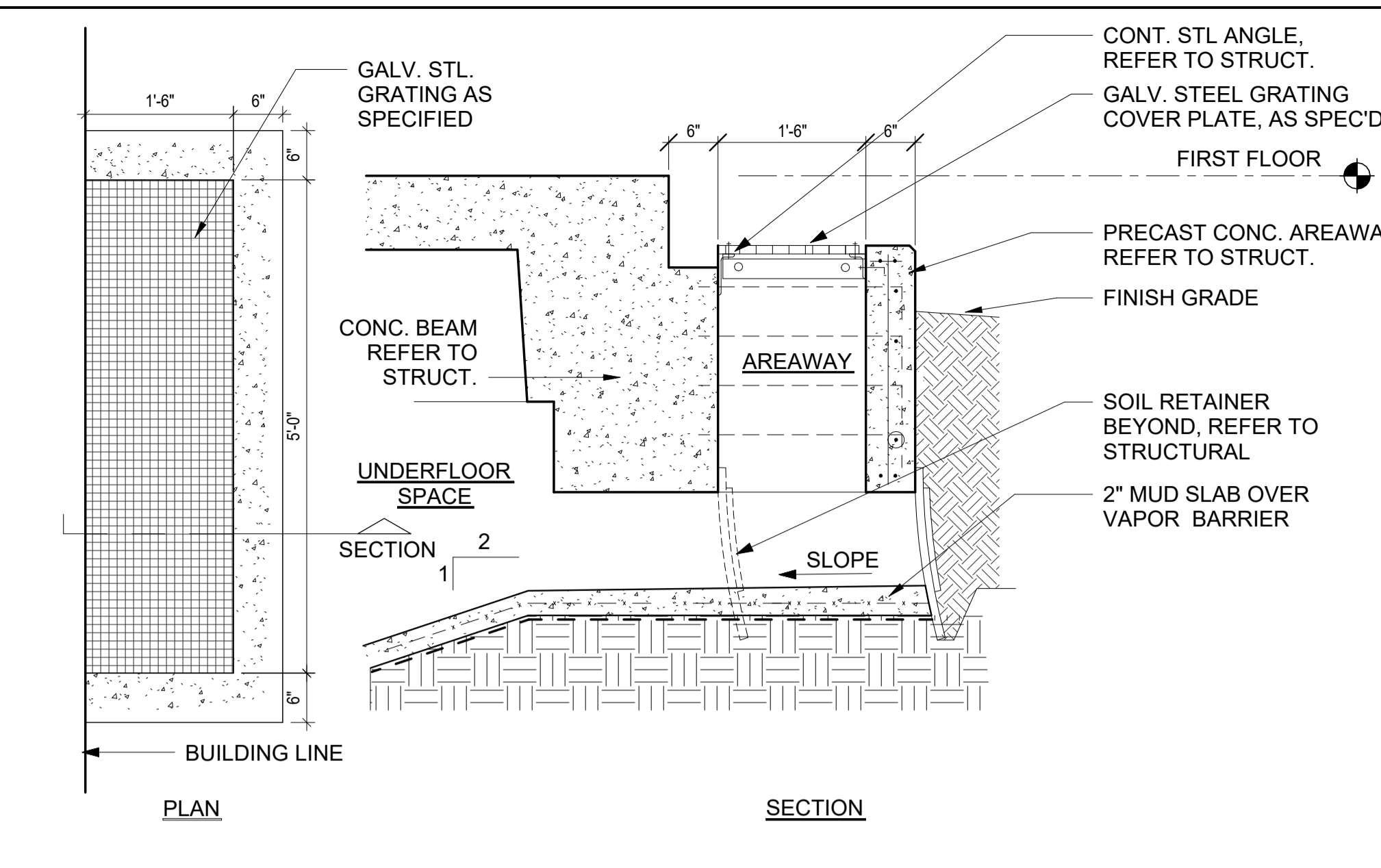
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BUILDING NUMBER 1

ARCHITECTURAL ENLARGED SITE PLANS

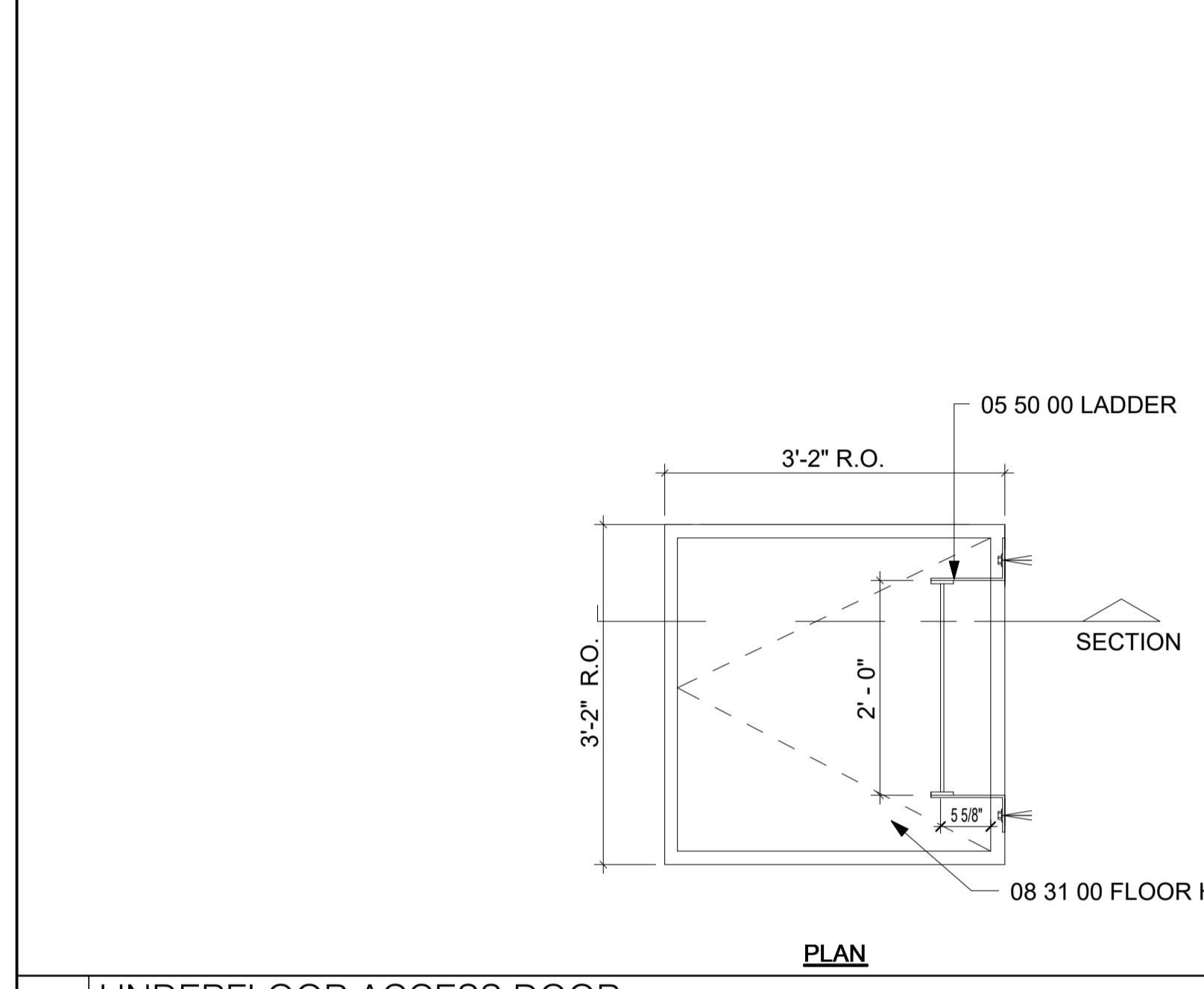
AS401



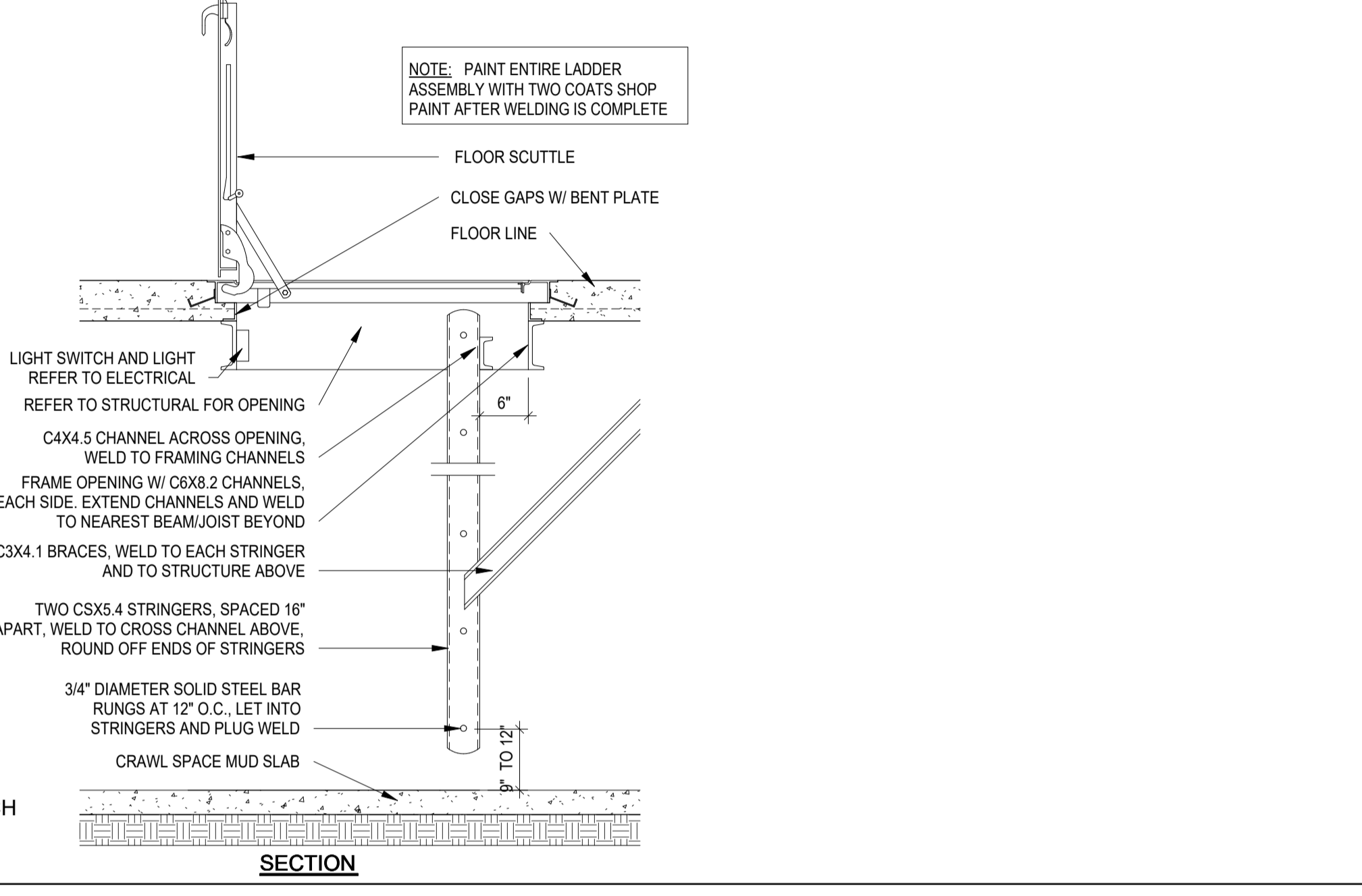
30 UNDERGROUND SUMP PUMP DETAIL
 1/4" = 1'-0"



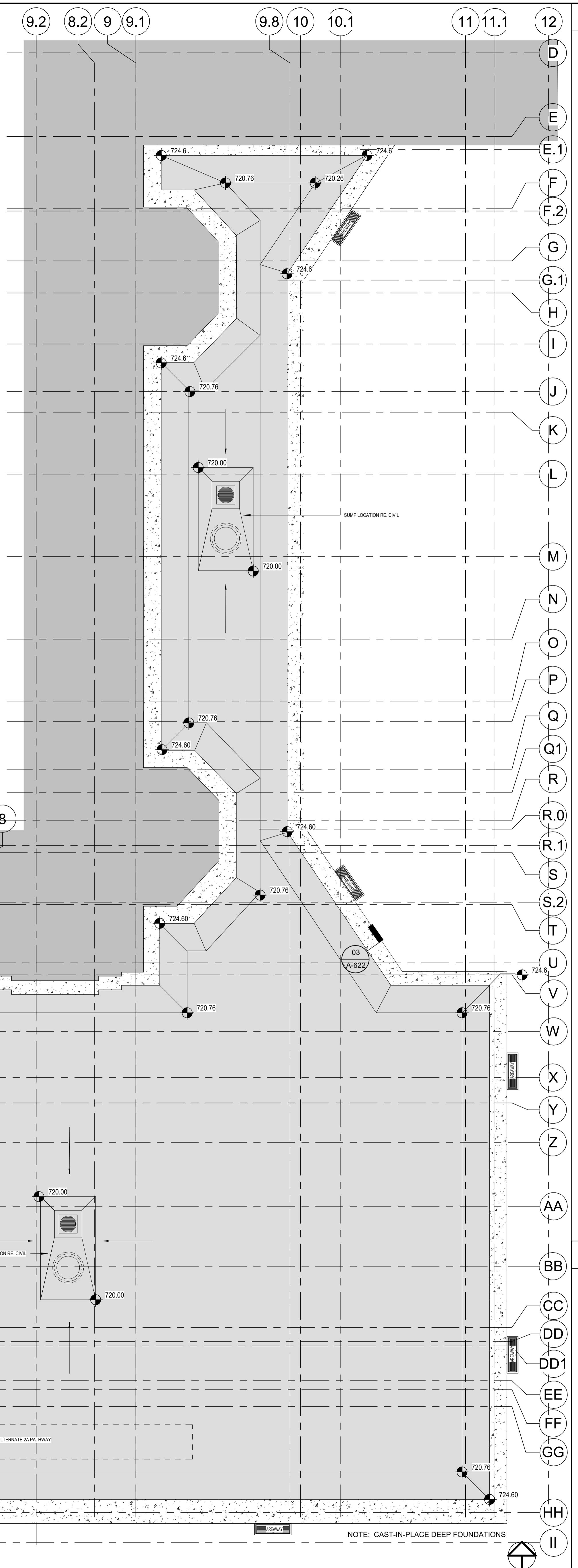
29 AREAWAY DETAIL
 3/4" = 1'-0"



18 UNDERFLOOR ACCESS DOOR
 3/4" = 1'-0"



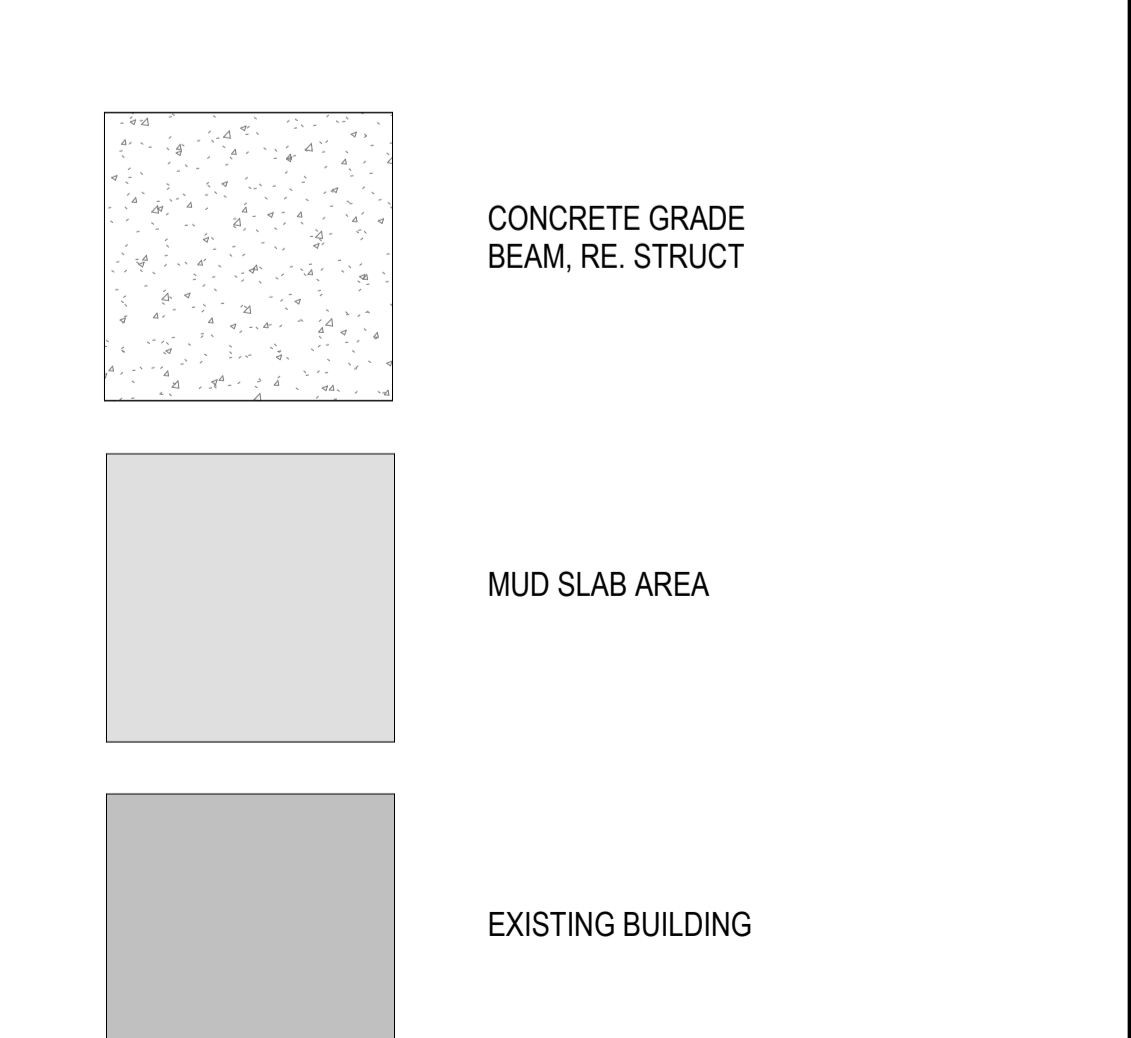
06 CRAWLSPACE
 1/8" = 1'-0"



GENERAL ARCH PLAN NOTES

- DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE. CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS.
- DRAWINGS NOTED AS "N.T.S." OR "NTS" ARE NOT TO SCALE.
- ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY U.N.O.
- FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK.
- NOTES OR DIMENSIONS NOTED AS "TYPICAL" OR "TYP." OR "TYP" SHALL APPLY TO CONDITIONS THAT ARE THE SAME, OR SIMILAR.
- DIMENSIONS NOTED AS "FIELD VERIFY" OR "V.I.F." OR "V.I.P." SHALL BE MEASURED AND CONFIRMED AT THE PROJECT SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCH. BEFORE INCORPORATING INTO THE WORK.
- DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" OR "CLR" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS.
- REFER TO PARTITION TYPES ON A-800 SERIES SHEETS.
- DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" OR "CLR" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS.
- REFER TO PARTITION TYPES ON A-800 SERIES SHEETS.
- ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE _38_ U.N.O.
- ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE _F3_ U.N.O.
- ADJOIN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE.
- PROVIDE AND INSTALL CONTINUOUS REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE.
- ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.
- ALL DOORS SHALL BE SET 4 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O. NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS.
- ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT.
- COORDINATE ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION.
- ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48.
- PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES.
- COORDINATE HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED.
- ALL FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS U.N.O.
- ALL FLOOR FINISH MATERIAL CHANGES SHALL HAVE REDUCER STRIPS.
- ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED.
- APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS.
- REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK.

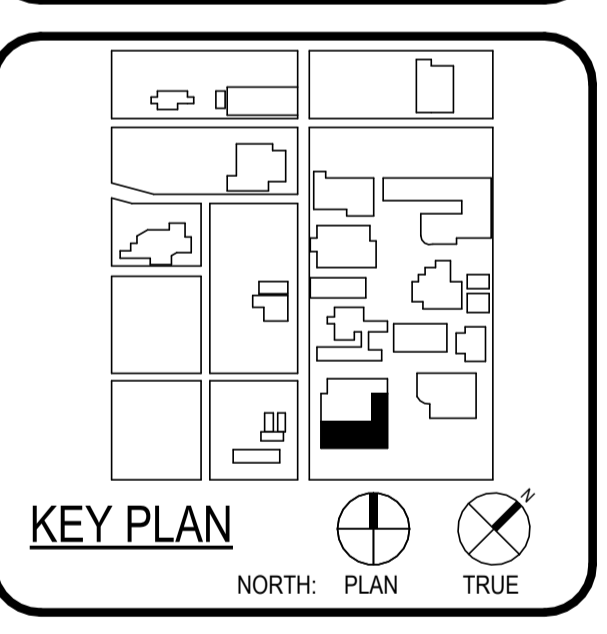
FLOOR FINISH LEGEND



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 TX Firm BR 1608

ARCHITECT BA & ARCHITECTS
 1801 Main Luther King Dr.,
 San Antonio, TX 78203

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Alamo Colleges	PROJECT NUMBER	
DATE	230462	
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BUILDING NUMBER 1

CRAWLSPACE FLOOR PLAN - COMPOSITE

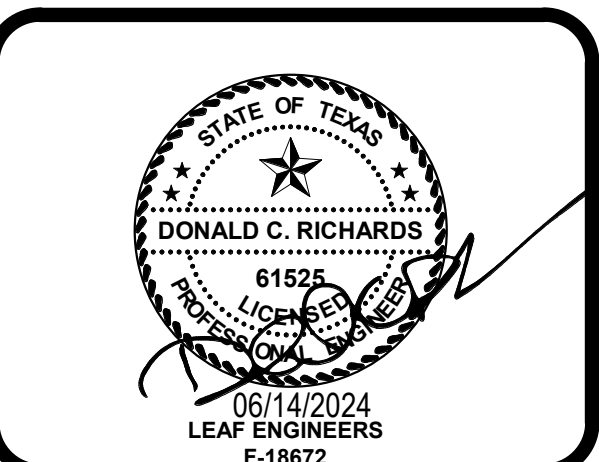
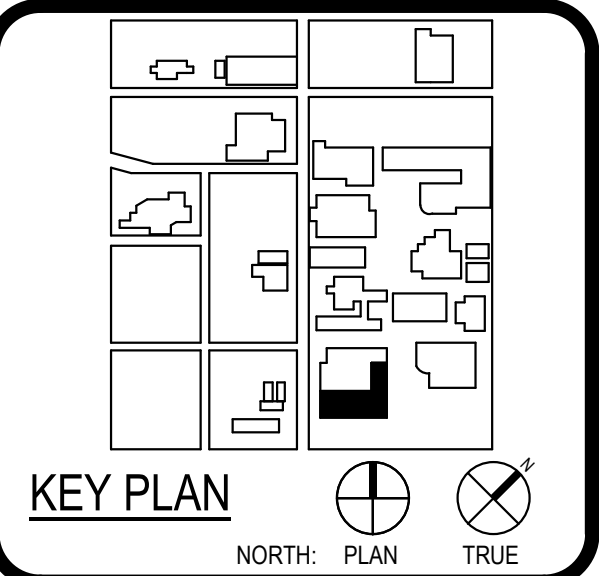


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ASSOCIATE ARCHITECT	BA & ARCHITECTS 200 1311 BRASS LANDSCAPE 1311 BRASS LUNNEY & FRANKS ENGINEERING 1311 BRASS 1311 BRASS 1311 BRASS 1311 BRASS 1311 BRASS 1311 BRASS 1311 BRASS



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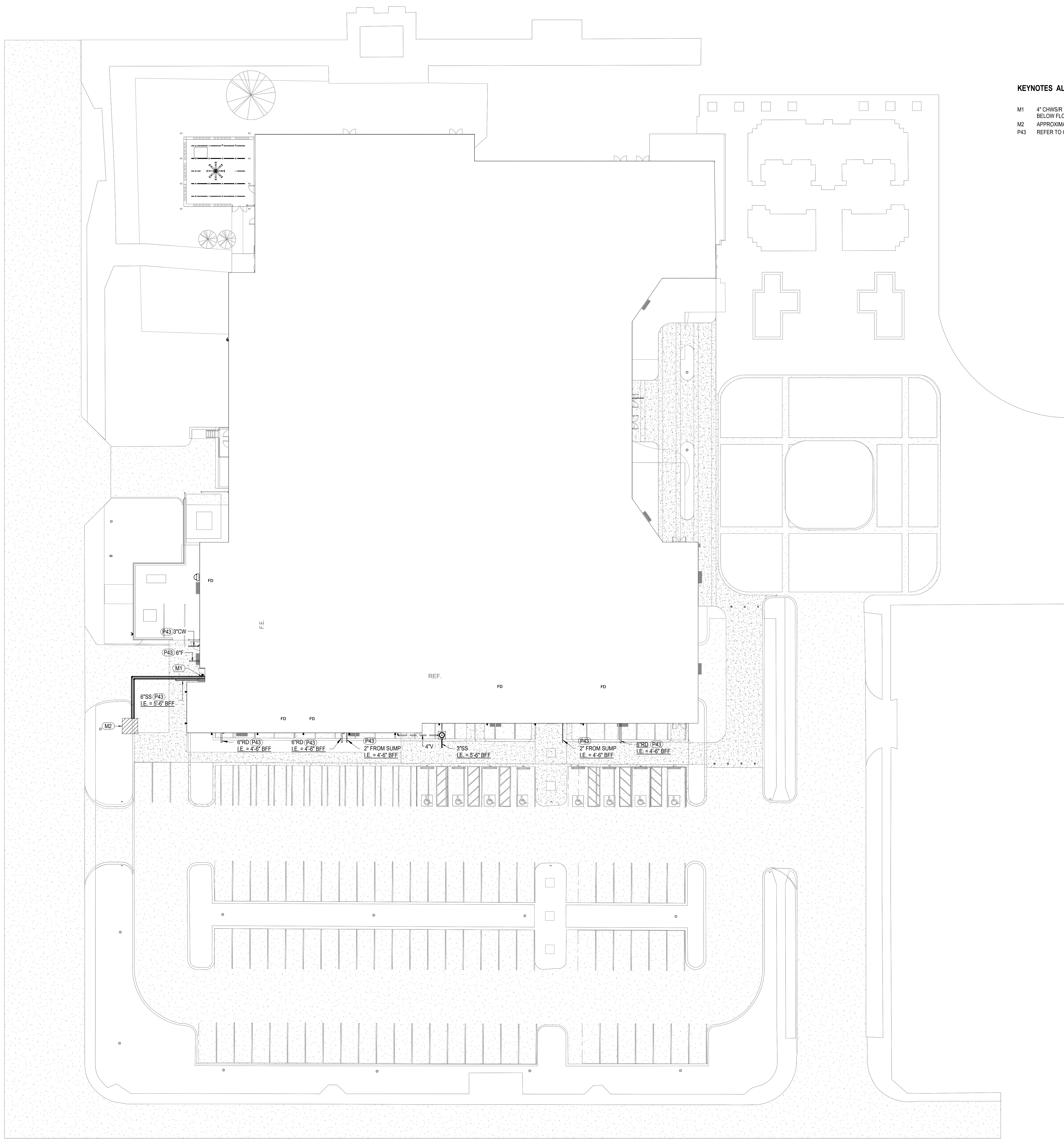
CLIENT	Alamo Colleges	
DATE	06/14/2024	
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MECHANICAL AND PLUMBING SITE PLAN

MPS-101

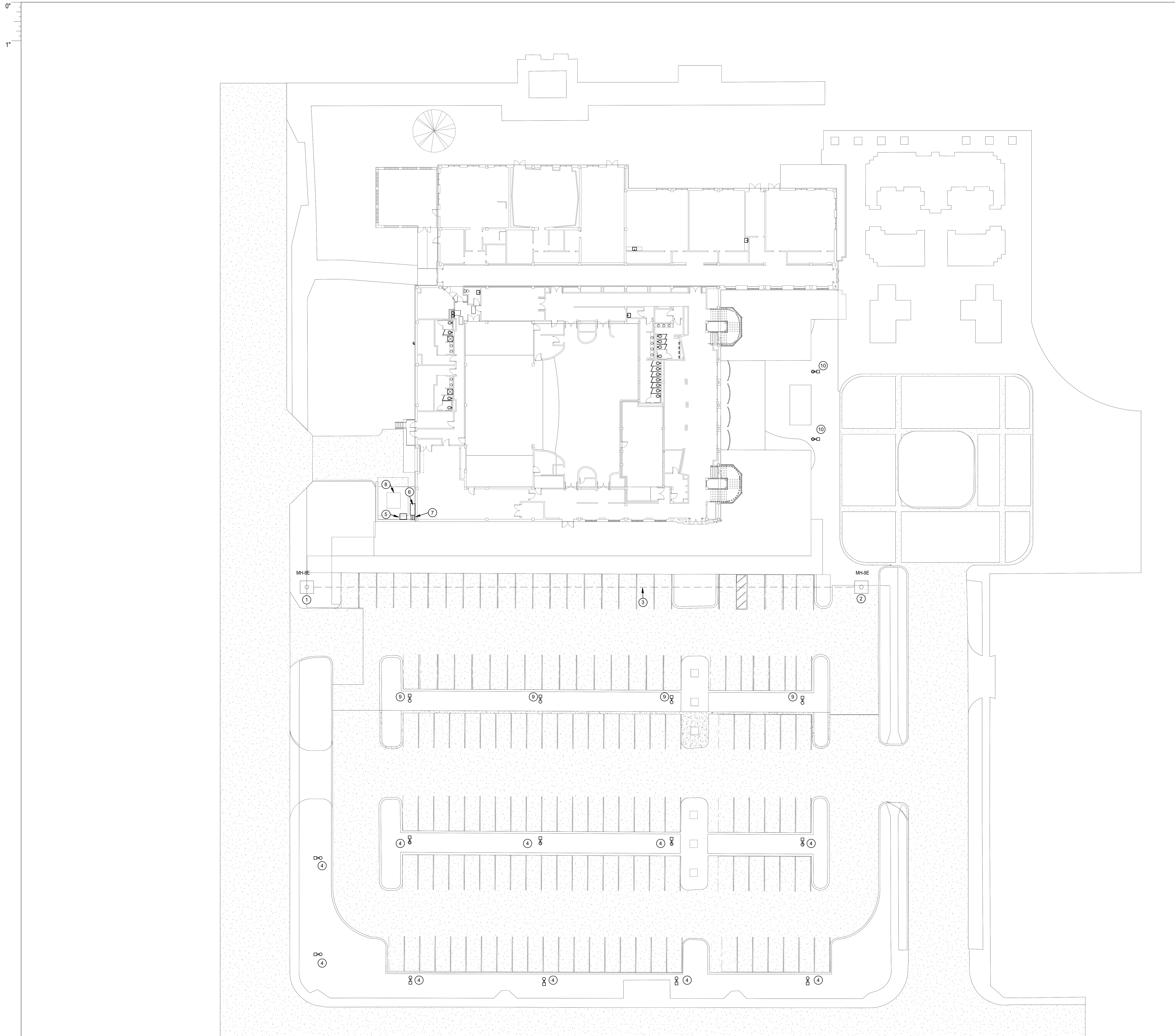
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- KEYNOTES ALL**
- M1 4" CHWS/R PIPING ROUTED FROM EXISTING CAMPUS LOOP VAULT BELOW FLOOR SLAB. REFER TO M-101D FOR CONTINUATION
 - M2 APPROXIMATE LOCATION OF EXISTING CHILLED WATER LOOP VAULT. REFER TO CIVIL DWGS. FOR CONTINUATION.
 - P43

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- DEMO SITE PLAN GENERAL NOTES:**
- COORDINATE ROUTING FOR ALL UNDERGROUND ELECTRICAL BRANCH CIRCUITS AND FEEDERS WITH OTHER DISCIPLINES PRIOR TO TRENCHING.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES CAUSED BY INSTALLATION OF NEW WORK.

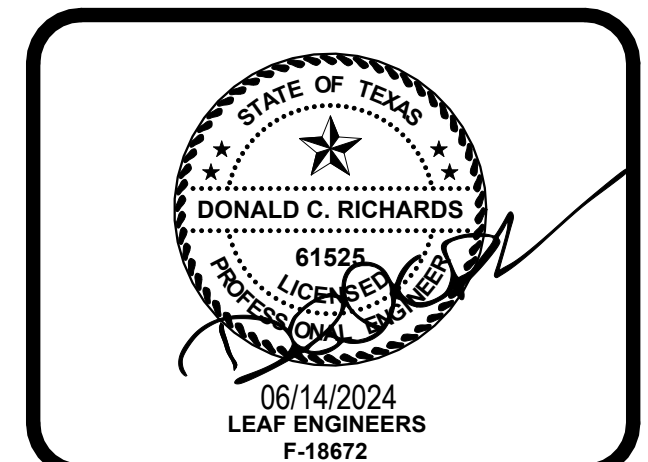
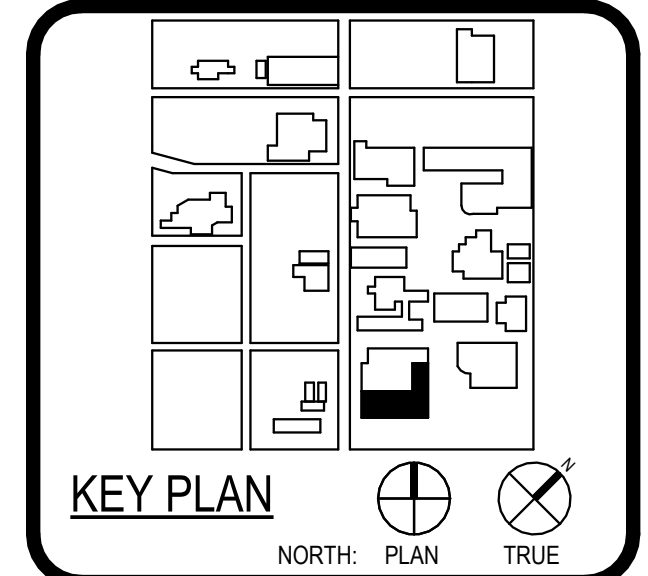
- SITE PLAN KEYED NOTES:**
- EXISTING ELECTRICAL MANHOLE.
 - EXISTING ELECTRICAL MANHOLE SHALL BE DEMOLISHED AND RELOCATED.
 - EXISTING UNDERGROUND ELECTRICAL DUGBANK WITH 4 EXISTING CONDUITS TO BE REROUTED FOR NEW BLACK BOX EXPANSION.
 - CONTRACTOR TO VERIFY NEW CONSTRUCTIONS DOES NOT OVERLAP EXISTING PARKING LOT LIGHTING. IF NEW CONSTRUCTIONS OVERLAPS EXISTING FEEDER FOR PARKING LOT LIGHTING, EXISTING FEEDERS FOR SITE LIGHTING SHALL BE RELOCATED.
 - EXISTING CONDENSING UNIT SHALL BE RELOCATED. DISCONNECT AND CONDUCTORS SHALL BE REROUTED. UTILIZE EXISTING CIRCUIT. COORDINATE EXACT LOCATION WITH MECHANICAL DRAWINGS.
 - EXISTING DISTRIBUTION MAIN SERVICE DISCONNECT DP-6 FOR ADJACENT WATSON FINE ARTS BUILDING.
 - EXISTING CONDUITS FROM DP-6 TO WATSON'S FINE ARTS BUILDING SHALL BE RELOCATED TO ACCOMMODATE NEW BUILDING. CONTRACTOR SHALL VERIFY PATH WAY AND RELOCATED CONDUITS AND CONDUCTORS TO NEW AVAILABLE LOCATION WITHOUT IMPEDE ANY OTHER SERVICES.
 - EXISTING UTILITY TRANSFORMER FOR WATSON FINE ARTS.
 - EXISTING PARKING LOT FIXTURES SHALL BE DEMOLISHED. CONTRACTOR SHALL PRESERVE CIRCUIT RUN FOR ANY EXISTING FIXTURES REMAINING OR TIED TO DEMOLISHED FIXTURES.
 - EXISTING PEDESTRIAN LOT FIXTURES SHALL BE RELOCATED. CONTRACTOR SHALL PRESERVE CIRCUIT RUN FOR ANY EXISTING FIXTURES REMAINING OR TIED TO DEMOLISHED FIXTURES.



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ENGINEER	LEAF ENGINEERS 1801 Main Luther King Dr., San Antonio, TX 78203 210-222-1100
LANDSCAPE	LANDSCAPE 1111 W. LOOP WEST SUITE 1000 SAN ANTONIO, TEXAS 78207 210-222-1100
MECHANICAL	LUNY & FRANK ENGINEERING 1111 W. LOOP WEST SUITE 1000 SAN ANTONIO, TEXAS 78207 210-222-1100
ELECTRICAL	LEAF ENGINEERS 1801 Main Luther King Dr., San Antonio, TX 78203 210-222-1100
PLUMBING	LEAF ENGINEERS 1801 Main Luther King Dr., San Antonio, TX 78203 210-222-1100
MECHANICAL	LEAF ENGINEERS 1801 Main Luther King Dr., San Antonio, TX 78203 210-222-1100



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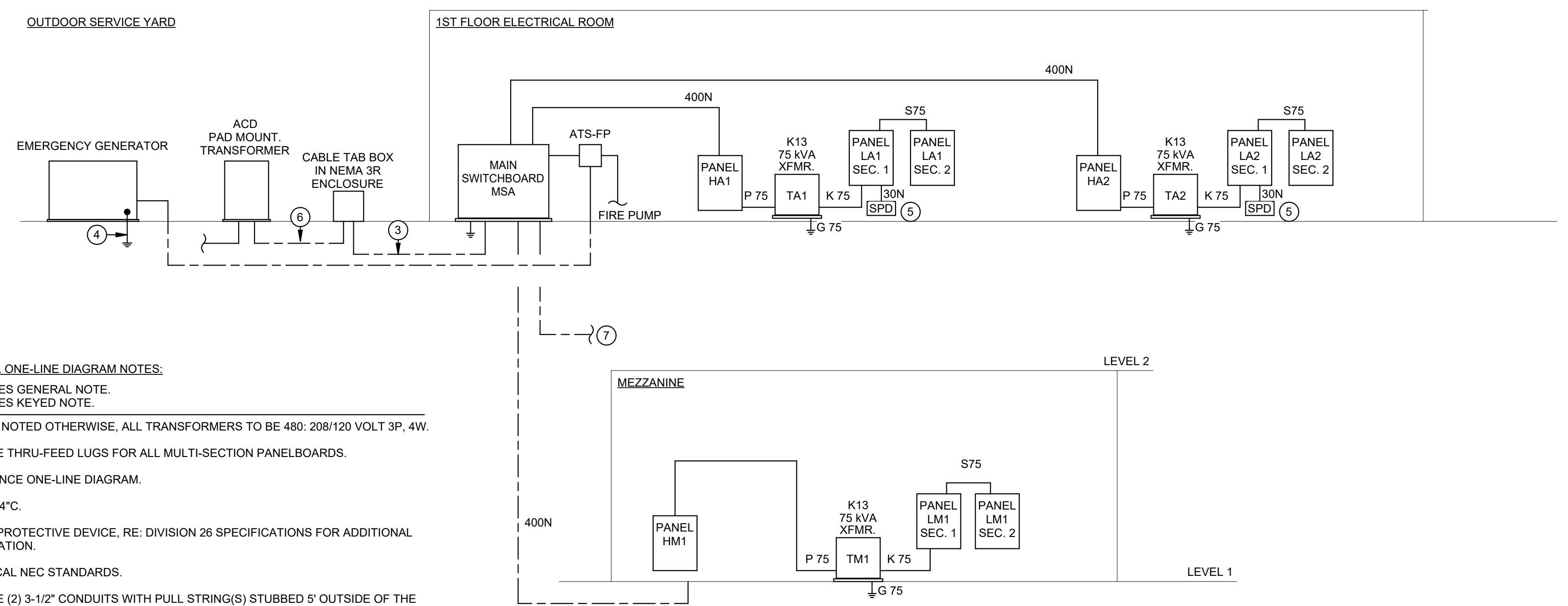


CLIENT	Alamo Colleges	
DATE	06/14/2024	
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BUILDING NUMBER 1

DEMO SITE POWER PLAN

5
1



- ELECTRICAL ONE-LINE DIAGRAM NOTES:**
- # INDICATES GENERAL NOTE.
 - Ⓢ INDICATES KEYED NOTE.
1. UNLESS NOTED OTHERWISE, ALL TRANSFORMERS TO BE 480: 208/120 VOLT 3P, 4W.
 2. PROVIDE THRU-FEED LUGS FOR ALL MULTI-SECTION PANELBOARDS.
 3. REFERENCE ONE-LINE DIAGRAM.
 4. 1#6 G, 3/4"C.
 5. SURGE PROTECTIVE DEVICE, RE: DIVISION 26 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 6. PER LOCAL NEC STANDARDS.
 7. PROVIDE (2) 3-1/2" CONDUITS WITH PULL STRING(S) STUBBED 5' OUTSIDE OF THE MAIN BUILDING FOR FUTURE USE.

ALUMINUM FEEDER SCHEDULE				
TAG NUMBER	CONDUCTOR QUANTITY AND SIZE	CONDUIT SIZE	SETS	COMMENTS
200	3#250, 1#4G	2"	1	
200N	4#250, 1#4G	2 1/2"	1	
225	3#300, 1#2G	2 1/2"	1	
225N	4#300, 1#2G	3"	1	
250	3#350, 1#2G	2 1/2"	1	
250N	4#350, 1#2G	3"	1	
300	3#500, 1#2G	3"	1	
300N	4#500, 1#2G	3"	1	
400	3#250, 1#1G	2 1/2"	2	
400N	4#250, 1#1G	2 1/2"	2	
600	3#500, 1#2OG	3"	2	
600N	4#500, 1#2OG	3 1/2"	2	
800	3#400, 1#3OG	3"	3	
800N	4#400, 1#3OG	3"	3	
1200	3#500, 1#3OG	3"	4	
1200N	4#500, 1#3OG	3 1/2"	4	

FEEDER SCHEDULE				
TAG NUMBER	CONDUCTOR QUANTITY AND SIZE	CONDUIT SIZE	SETS	COMMENTS
30N	4#10, 1#10G	1"	1	
50N	4#6, 1#10G	1"	1	
60N	4#6, 1#10G	1"	1	
100	3#1, 1#6G	1 1/2"	1	
100N	4#1, 1#6G	1 1/2"	1	
125	3#1, 1#6G	1 1/2"	1	
125N	4#1, 1#6G	2"	1	
150	3#1/0, 1#6G	1 1/2"	1	
150N	4#1/0, 1#6G	2"	1	
175	3#2/0, 1#6G	2"	1	
175N	4#2/0, 1#6G	2"	1	
200	3#3/0, 1#6G	2"	1	
200N	4#3/0, 1#6G	2"	1	
225	3#4/0, 1#4G	2"	1	
225N	4#4/0, 1#4G	2 1/2"	1	
250	3#250, 1#4G	2 1/2"	1	
250N	4#250, 1#4G	3"	1	
300	3#350, 1#4G	3"	1	
300N	4#350, 1#4G	3"	1	
400	3#3/0, 1#3G	2"	2	
400N	4#3/0, 1#3G	2"	2	
400S	4#500	3 1/2"	1	
600	3#350, 1#1G	3"	2	
600N	4#350, 1#1G	3"	2	
600S	4#350	3"	2	
800	3#500, 1#1OG	3"	2	
800N	4#500, 1#1OG	3 1/2"	2	
800S	4#500	3 1/2"	2	
1000	3#400, 1#2OG	3"	3	
1000N	4#400, 1#2OG	3"	3	
1000S	4#400	3"	3	
1200	3#250, 1#3OG	3"	4	
1200N	4#250, 1#3OG	3"	4	
1200S	4#250	3"	4	
1600S	4#400	3"	5	
2000S	4#400	3"	6	
2500S	4#500	3 1/2"	7	
3000S	4#500	3 1/2"	8	
4000S	4#500	3 1/2"	11	

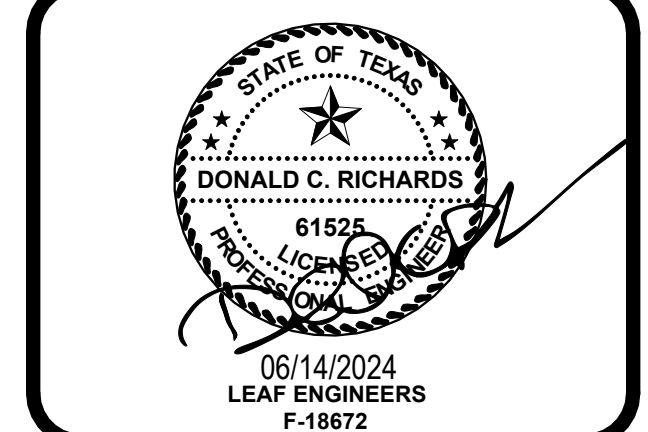
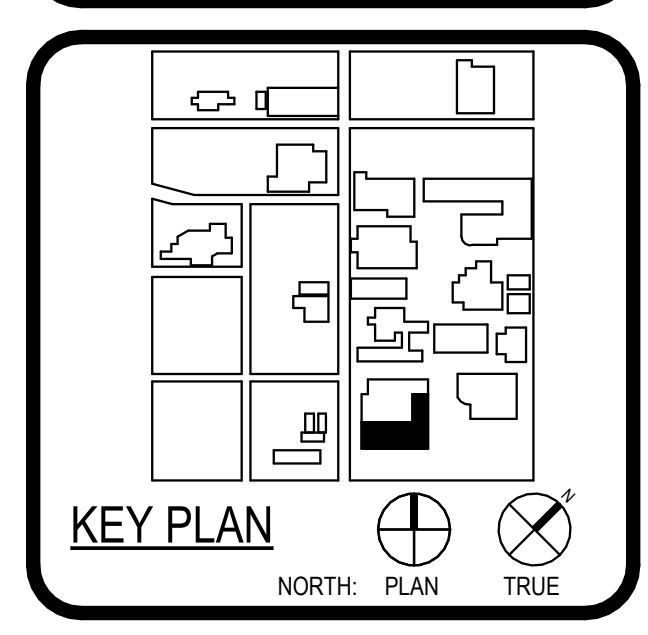
TRANSFORMER FEEDER SCHEDULE				
TAG NUMBER	CONDUCTOR QUANTITY AND SIZE	CONDUIT SIZE	SETS	COMMENTS
P15	3#10, 1#10G	3/4"	1	
S15	4#6, 1#6G	1 1/2"	1	
K15	3#4, 1#6N, 1#6G	1 1/4"	1	
G15	1#6G	1/2"	1	
P15	2#6, 1#10G	3/4"	1	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
S15	3#4, 1#6G	1 1/2"	1	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
G15	1#6G	3/4"	1	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
P25	2#6, 1#10G	1"	1	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
D25	3#1, 1#6G	1 1/2"	1	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
G25	1#6G	3/4"	1	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
P30	3#6, 1#10G	3/4"	1	
S30	4#1, 1#6G	1 1/2"	1	
K30	3 #1/0, 1#2/0N, 1#6G	2"	1	
G30	1#6G	1/2"	1	
P37	2#1, 1#6G	1 1/4"	1	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
D37	3#3/0, 1#4G	3"	1	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
G37	1#4G	3/4"	1	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
P45	3#4, 1#6G	1"	1	
S45	4#1/0, 1#6G	1 1/2"	1	
K45	3#2/0, 1#250, 1#4G	2"	1	
G45	1#6G	1/2"	1	
P50	2#1, 1#6G	1 1/4"	1	
S50	3#3/0, 1#3G	2"	1	
G50	1#3G	3/4"	1	
P75	3#1, 1#6G	1 1/2"	1	
S75	4#4/0, 1#2G	2 1/2"	1	
K75	3#4/0, 2#3/0N, 1#2G	2 1/2"	1	
G75	1#1/0G	1/2"	1	
P75	2#3/0, 1#6G	2"	1	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
S75	3#3/0, 1#4G	2"	2	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
G75	1#4G	3/4"	1	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
P75A	3#1, 1#6G	1 1/2"	1	FOR 480 3Ø: 120/240 3Ø TRANSFORMERS
S75A	4#4/0, 1#2G	2 1/2"	1	FOR 480 3Ø: 120/240 3Ø TRANSFORMERS
G75A	1#2/0	1/2"	1	FOR 480 3Ø: 120/240 3Ø TRANSFORMERS
P112	3#2/0, 6G	2"	1	
S112	4#3/0, 1#10G	2"	2	
K112	3#4/0, 1#350N, 1#1/0G	2 1/2"	2	
G112	1#1/0G	3/4"	1	
P150	3#250, 1#4G	2 1/2"	1	
S150	4#350, 1#2OG	3"	2	
K150	3#350, 2#3/0N, 1#2OG	3"	2	
G150	1#2OG	3/4"	1	
P167	2#4/0, 1#2OG	2"	2	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
S167	3#350, 1#3OG	3"	3	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
G167	1#3OG	3/4"	1	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
P225	3#500, 3#3G	3"	1	
S225	4#350, 1#2OG	3"	1	
K225	3#350, 2#4/0, 1#1G	3 1/2"	3	
G225	1#2OG	3/4"	1	



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WFAC Black Box Addition PKG 1
1801 Main Luther King Dr.,
San Antonio, TX 78203
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ISSUE FOR CONSTRUCTION
BUILDING NUMBER 1

ELECTRICAL RISER DIAGRAM

GENERAL ELECTRICAL NOTES

- 1. UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS OR OTHERWISE INSTRUCTED BY THE ARCHITECT, ELECTRICAL OUTLETS SHALL HAVE THE FOLLOWING MOUNTING HEIGHTS. DIMENSIONS ARE TO CENTER OF BOX UNLESS OTHERWISE NOTED. WALL SWITCHES 15" AFF TO BOTTOM OF BOX...

AFF = ABOVE FINISHED FLOOR AFG = ABOVE FINISHED GRADE

- 2. UNLESS SPECIFICALLY INDICATED ON THE ELECTRICAL DRAWINGS, OUTLETS LOCATED AT COUNTERS AND CABINETS SHALL BE MOUNTED AS SHOWN ON ARCHITECTURAL DETAILS AND ELEVATIONS, OR AS DIRECTED BY ARCHITECT.

- 3. COORDINATE MOUNTING HEIGHTS AND DETAILS OF ALL OUTLETS (POWER, SIGNAL, ETC.) WITH ARCHITECTURAL CASEWORK DRAWINGS PRIOR TO DIVISION 26 ROUGH-IN. PROVIDE COORDINATION DRAWINGS IN ACCORDANCE WITH DIVISION 26 SPECIFICATIONS WHERE CONFLICTS EXIST.

- 4. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF ALL HVAC AND PLUMBING EQUIPMENT. CIRCUITING A. BRANCH CIRCUITING IS SCHEMATIC IN NATURE AND IS INTENDED TO INDICATE CIRCUIT LOADING AND CONTROL...

LIGHTING FIXTURE NOTES

KEY TO NOTE PREFIXES: "G" NOTES ARE "GENERAL" LIGHTING NOTES THAT APPLY TO THE ENTIRE PROJECT. "S" NOTES ARE "SCHEDULE" NOTES THAT APPLY TO SPECIFIC LUMINAIRES.

- G.1 REFER TO ARCHITECTURAL REFLECTED CEILING PLANS, ELEVATIONS, SECTIONS, AND DETAILS FOR THE EXACT LOCATION OF ALL LUMINAIRES ARCHITECTURAL PLANS SHALL GOVERN FOR LOCATION AND LAYOUT.

GENERAL ELECTRICAL REMODEL NOTES

- 1. UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS OR OTHERWISE INSTRUCTED BY THE ARCHITECT, ELECTRICAL OUTLETS SHALL HAVE THE FOLLOWING MOUNTING HEIGHTS. DIMENSIONS ARE TO CENTER OF BOX UNLESS OTHERWISE NOTED.

AFF = ABOVE FINISHED FLOOR AFG = ABOVE FINISHED GRADE

- 2. UNLESS SPECIFICALLY INDICATED ON THE ELECTRICAL DRAWINGS, OUTLETS LOCATED AT COUNTERS AND CABINETS SHALL BE MOUNTED AS SHOWN ON ARCHITECTURAL DETAILS AND ELEVATIONS, OR AS DIRECTED BY ARCHITECT.

- 3. COORDINATE MOUNTING HEIGHTS AND DETAILS OF ALL OUTLETS (POWER, SIGNAL, ETC.) WITH ARCHITECTURAL CASEWORK DRAWINGS PRIOR TO DIVISION 26 ROUGH-IN. PROVIDE COORDINATION DRAWINGS IN ACCORDANCE WITH DIVISION 26 SPECIFICATIONS WHERE CONFLICTS EXIST.

- 4. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF ALL HVAC AND PLUMBING EQUIPMENT. CIRCUITING A. BRANCH CIRCUITING IS SCHEMATIC IN NATURE AND IS INTENDED TO INDICATE CIRCUIT LOADING AND CONTROL...

CONTACTOR SCHEDULE

Table with columns: DESIGNATION, CIRCUITS SERVED, CONTACT AMPS, N.O. POLES, COIL VOLTS, CONTROL, SUPPLY CKT., REMARKS. Row 1: C1, 1HA-6, 20, 2, 277, DDC, 1HA-6, ASCO 918 REMOTE CONTROL SWITCH.

1 PROVIDE ASCO ACCESSORY 47 SOLID STATE TWO-WIRE CONTROL INTERFACE MODULE.

ELECTRICAL SYMBOL LEGEND

- 1. EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS. 2. DASHED ELECTRICAL EQUIPMENT GENERALLY INDICATES EXISTING EQUIPMENT. 3. LONG-SHORT-SHORT-LONG DASHING GENERALLY INDICATES MATCH LINE OR DEFINES AREA FOR SPECIAL NOTE.

- CIRCUIT RELATED: LIGHTING OR POWER CIRCUIT(S). ARROW INDICATES HOME RUN. LONGER TICK(S) INDICATE NEUTRAL WIRE(S), SHORTER STRAIGHT TICK(S) INDICATE PHASE WIRE(S).

- LIGHTING: LED LIGHTING FIXTURE. LETTER INDICATES TYPE. SMALL LETTER INDICATES SWITCH CONTROL. NUMBER INDICATES CIRCUIT. CROSS HATCHING INDICATES FIXTURE ON EMERGENCY SYSTEM.

- CONTROL: SWITCH. SMALL LETTER INDICATES FIXTURES CONTROLLED. "PI" INDICATES PILOT LIGHT, "WP" INDICATES WEATHERPROOF, "K" INDICATES KEY OPERATED.

- POWER OUTLETS: 20A-125V DUPLEX RECEPTACLE. 20A-125V GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE. "WP" INDICATES WEATHER PROOF DEVICE.

- TELEPHONE/DATA: FLUSH FLOOR TELEPHONE OUTLET WITH CARPET FLANGE WHERE APPLICABLE. WALL COMMUNICATIONS OR DATA OUTLET.

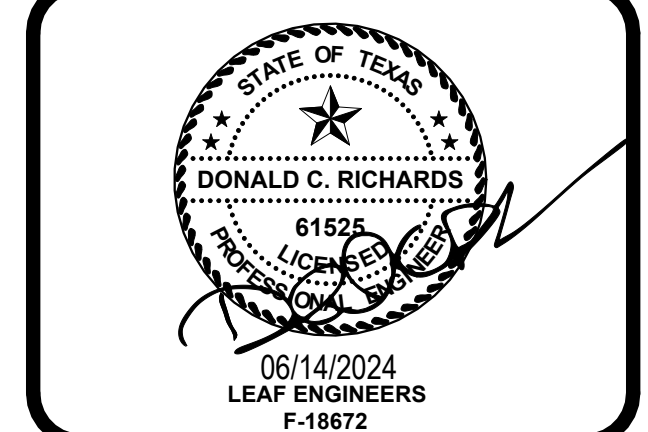
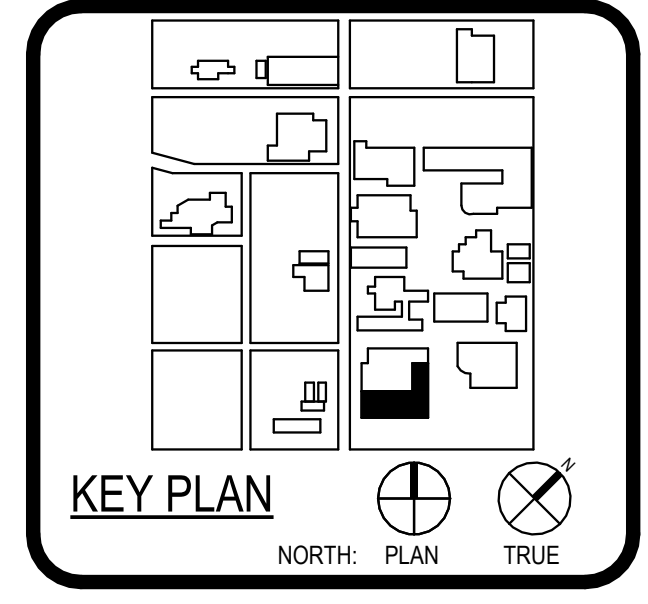
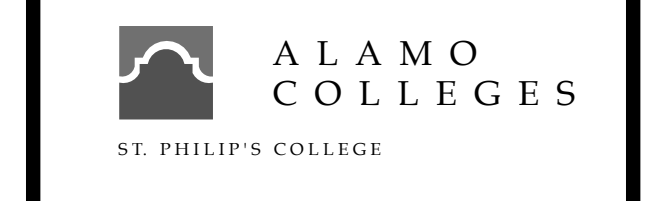
- EQUIPMENT: "42" A NOTATION INDICATING THE MOUNTING HEIGHT OF A DEVICE AS MEASURED FROM FINISHED FLOOR OR GRADE TO CENTER LINE OF DEVICE. MOTOR. DISCONNECT SWITCH.



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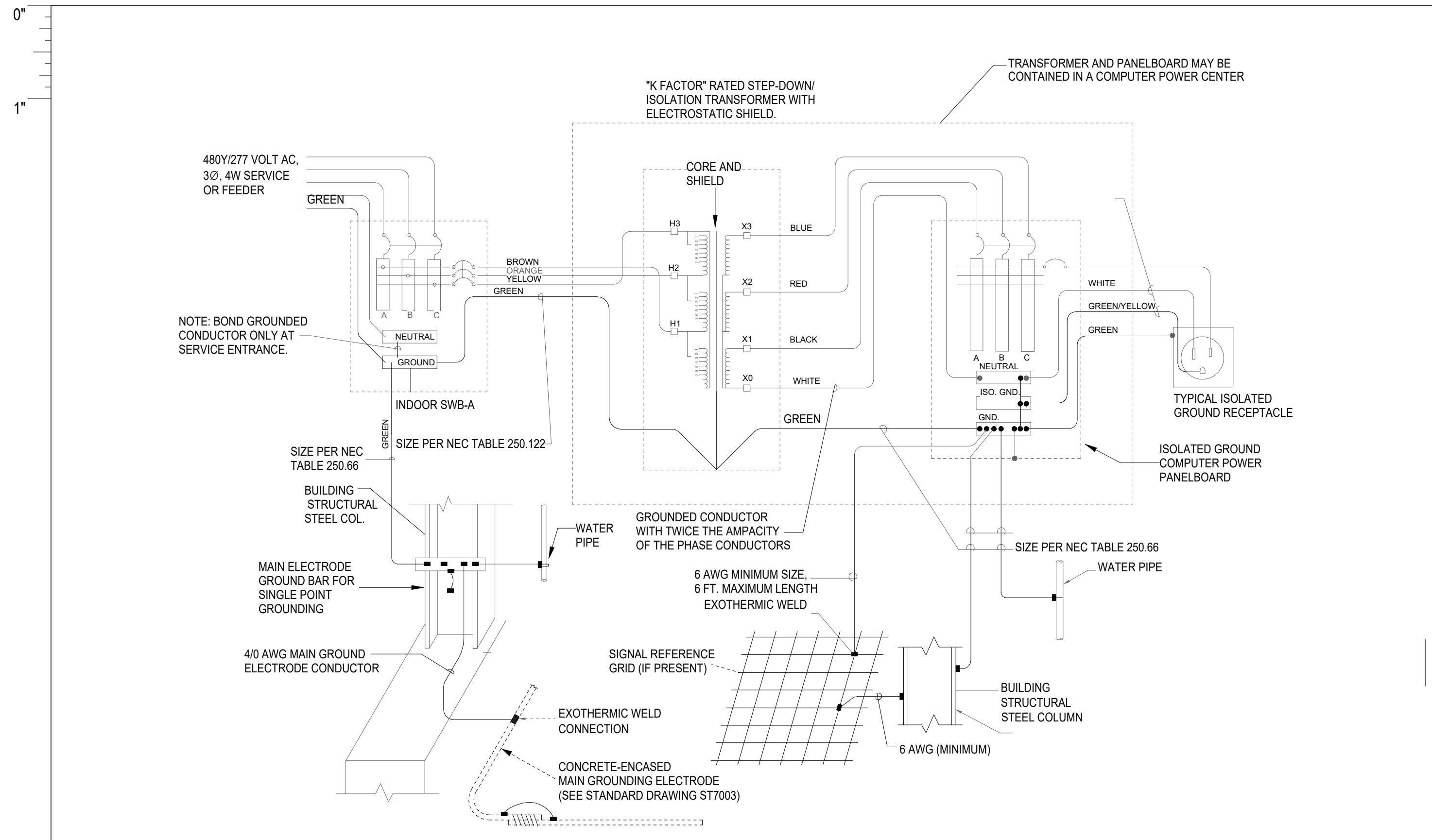


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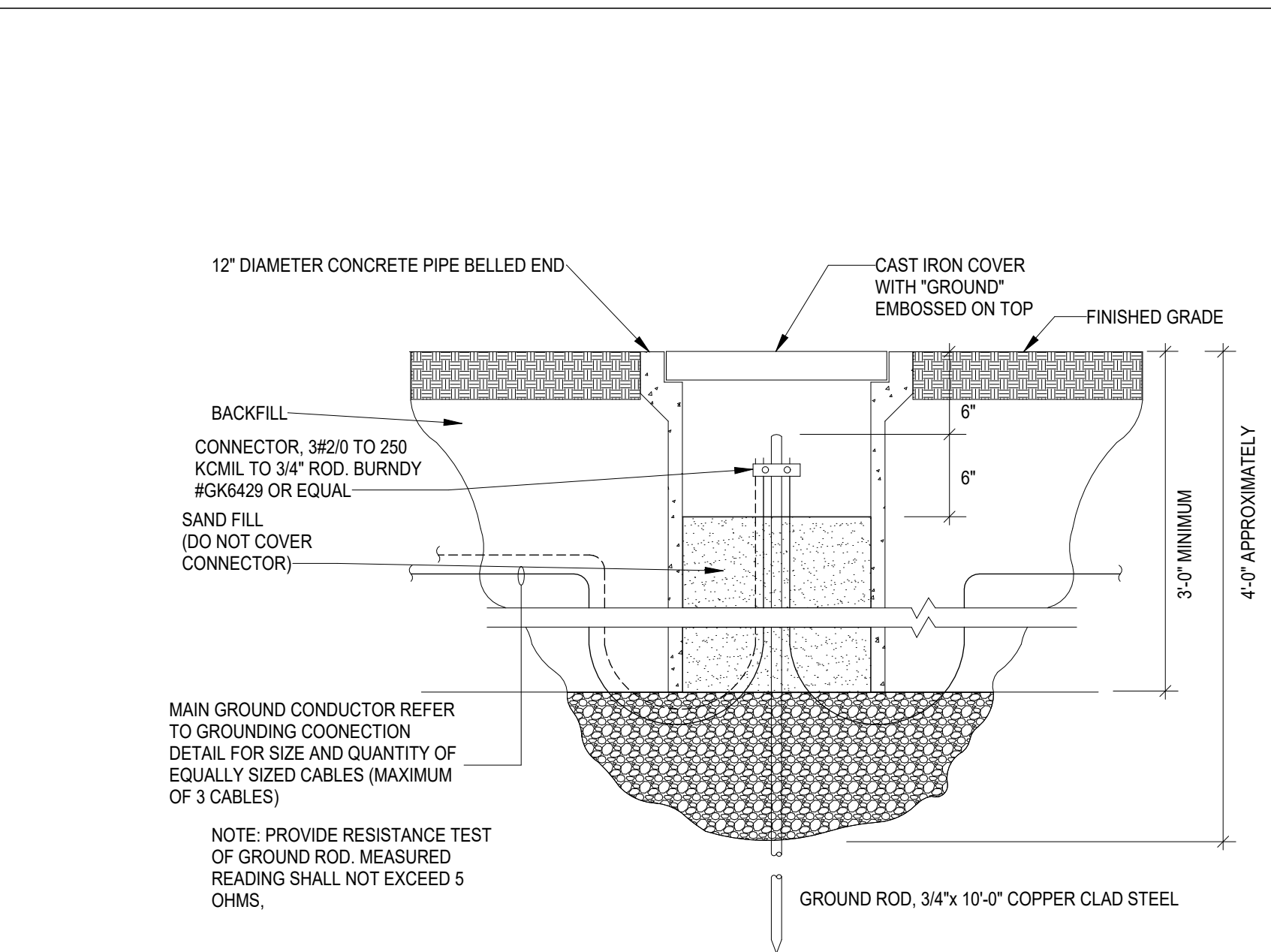
ISSUE FOR CONSTRUCTION BUILDING NUMBER 1 ELECTRICAL SYMBOL LEGEND AND CONTACTOR SCHEDULE

ISSUE FOR CONSTRUCTION

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DRAWN BY: Author
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2 ISOLATED GROUND DETAIL
NOT TO SCALE



3 GROUND WELL ASSEMBLY
NOT TO SCALE

GENERAL NOTES

- CONDUCTOR SIZES SHOWN ARE MINIMUM AND MAY BE LARGER THAN THE MINIMUM SIZES REQUIRED BY NEC.
- INSTALL GROUNDING CONNECTIONS TO BUILDING STRUCTURE AND WATER PIPES AT LOCATIONS THAT ARE VISIBLE AND ACCESSIBLE FOR INSPECTION, MAINTENANCE, AND TESTING.
- INSTALL AN INSULATED THROAT GROUNDING BUSHING ON EACH METALLIC SERVICE ENTRANCE CONDUIT. BOND TO GROUND BUS USING CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250.66 USING THE SERVICE PHASE CONDUCTOR SIZE.
- INSTALL AN INSULATED THROAT GROUNDING BUSHING ON EACH METALLIC FEEDER CONDUIT. BOND TO GROUND BUS USING CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250.122 USING THE FEEDER CIRCUIT OVERCURRENT DEVICE SIZE OR THE SEPARATELY DERIVED SYSTEM OVERCURRENT DEVICE SIZE.
- BOND HOT AND COLD WATER PIPING SYSTEMS.

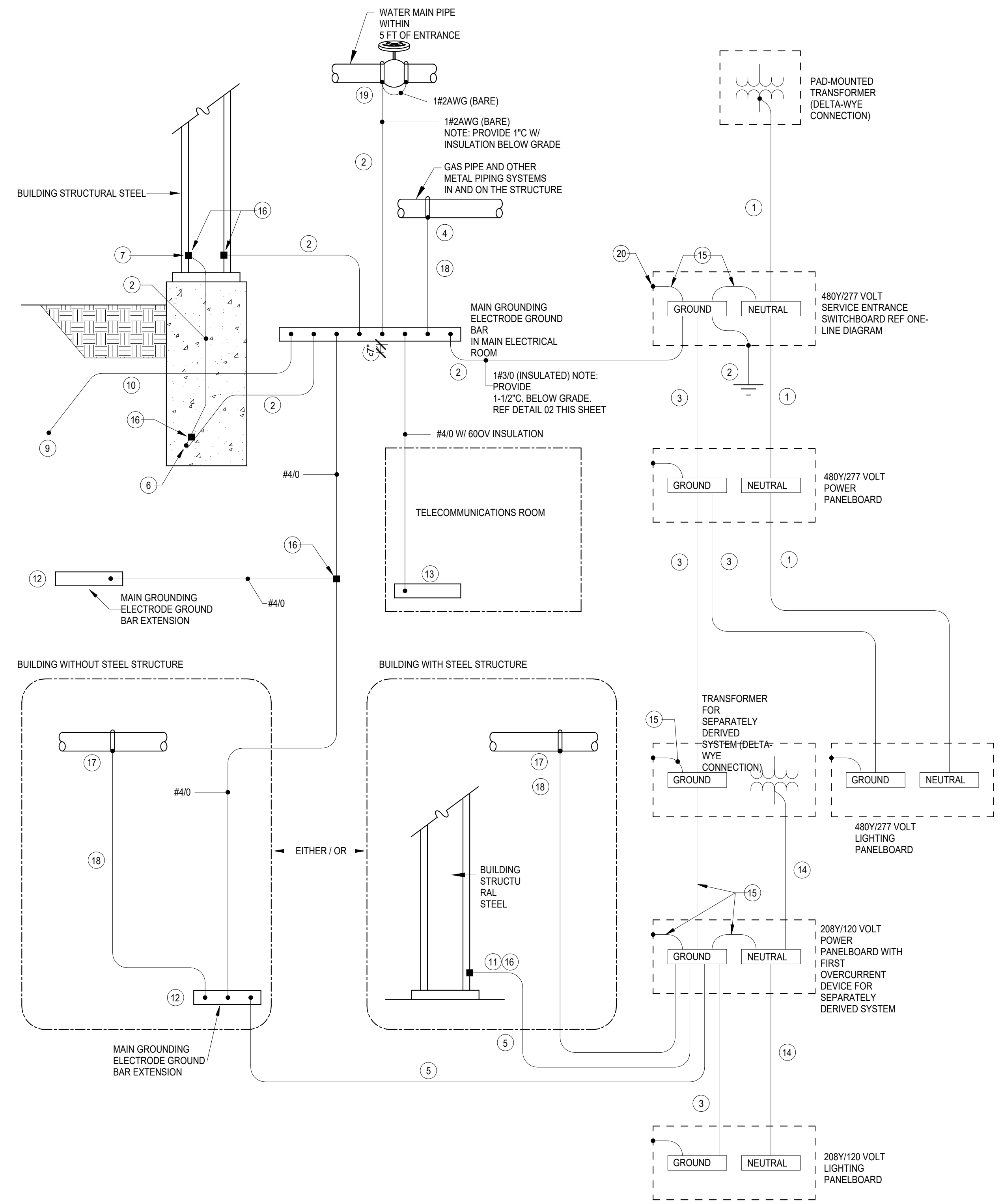
KEYED NOTES

- INSTALL GROUND (NEUTRAL) CONDUCTOR SAME SIZE AS THE LARGEST PHASE CONDUCTOR IF THE LINE-TO-NEUTRAL LOAD EXCEEDS 5% OF THE CONNECTED LOAD. IF NEUTRAL LOAD IS SMALLER, INSTALL THE NEC MINIMUM GROUNDING CONDUCTOR.
- INSTALL GROUNDING ELECTRODE CONDUCTOR, SIZED BASED ON NEC TABLE 250.66 USING THE SERVICE PHASE CONDUCTOR SIZE, BUT NOT SMALLER THAN 2 AWG UNLESS NOTED OTHERWISE.
- INSTALL EQUIPMENT GROUNDING CONDUCTOR SIZED BASED ON NEC TABLE 250.122 USING THE FEEDER OVERCURRENT DEVICE SIZE.
- BOND TO GAS PIPE ON THE BUILDING SIDE OF THE GAS METER.
- INSTALL GROUNDING ELECTRODE CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250.66 USING THE SEPARATELY DERIVED SYSTEM PHASE CONDUCTOR SIZE.
- INSTALL A CONCRETE-ENCASED MAIN GROUNDING ELECTRODE IN THE BUILDING FOUNDATION AROUND THE ENTIRE PERIMETER OF THE BUILDING. LOCATE ELECTRODE IN THE BOTTOM ONE-THIRD OF THE FOUNDATION WITH AT LEAST 3 INCHES OF CONCRETE COVER. USE EITHER OF THE FOLLOWING MATERIALS FOR THE ELECTRODE:

BARE COPPER CABLE NOT SMALLER THAN THE GROUNDING ELECTRODE CONDUCTOR REQUIRED BY THE NEC AND NOT SMALLER THAN 2 AWG. REFER SPEC 28 05 26.

BARE OR GALVANIZED REBARS THAT ARE MADE ELECTRICALLY CONTINUOUS USING COPPER JUMPERS NOT SMALLER THAN THE NEC REQUIRED GROUNDING ELECTRODE CONDUCTOR AND NOT SMALLER THAN 4 AWG. USE REINFORCING BARS NOT SMALLER THAN THE FOLLOWING BASED ON THE TOTAL LENGTH OF THE INTERCONNECTED AND PARALLELED REBARS:

TOTAL LENGTH	MINIMUM REBAR SIZE
112 FT	1 3/8" (#1 BAR)
150 FT	1" (#8 BAR)
192 FT	3/4" (#6 BAR)
223 FT	5/8" (#5 BAR)
268 FT	1/2" (#4 BAR)
- BOND PERIMETER STRUCTURAL STEEL COLUMNS TO THE CONCRETE-ENCASED MAIN GROUNDING ELECTRODE. USE CANNULD CONNECTION TO ATTACH GROUNDING ELECTRODE CONDUCTOR TO BASE OF STEEL COLUMN. REFER SPEC 28 05 26.
- INSTALL A 'MAIN GROUND ELECTRODE GROUND BAR' FOR SINGLE POINT GROUNDING. LOCATE AT AN ACCESSIBLE AND VISIBLE POINT NEAR THE SERVICE ENTRANCE EQUIPMENT. MAKE CONNECTIONS TO THE GROUND BAR USING TWO-HOLE COMPRESSION SPADE LUGS THAT MEET IEEE 837 REQUIREMENTS. LABEL EACH CONNECTION TO THE GROUND BAR.
- LIGHTNING PROTECTION GROUNDING COUNTERPOISE - 3/0 AWG COPPER (IF LIGHTING PROTECTION SYSTEM IS SPECIFIED IN PROJECT, RE: SECTION 26 41 00).
- IF LIGHTNING PROTECTION SYSTEM IS SPECIFIED IN PROJECT (26 41 00), BOND THE LIGHTNING PROTECTION SYSTEM GROUNDING COUNTERPOISE TO THE MAIN GROUND ELECTRODE GROUND BAR. USE 4/0 AWG COPPER CABLE WITH 600 VOLT INSULATION. AT THE UNDERGROUND CONNECTION USE A COMPRESSION CONNECTOR THAT MEETS IEEE 837 REQUIREMENTS OR USE AN EXOTHERMIC WELD.
- USE THE 'MAIN GROUNDING ELECTRODE GROUND BAR' INSTEAD OF BUILDING STRUCTURAL STEEL IF THE FIRST OVERCURRENT DEVICE FOR THE SEPARATELY DERIVED SYSTEM IS WITHIN 50 FEET OF THE 'MAIN GROUNDING ELECTRODE GROUND BAR'.
- IF THE BUILDING STRUCTURE IS NOT STRUCTURAL STEEL, INSTALL 'MAIN GROUNDING ELECTRODE GROUND BAR EXTENSIONS' AT AN ACCESSIBLE AND VISIBLE LOCATION ADJACENT TO SEPARATELY DERIVED SYSTEMS THAT ARE MORE THAN 50 FEET FROM THE MAIN GROUNDING ELECTRODE GROUND BAR.
- INSTALL A COPPER GROUNDING BAR IN EACH TELECOMMUNICATIONS ROOM. CONNECT TO THE 'MAIN GROUNDING ELECTRODE GROUND BAR' USING 600V INSULATED 4/0 AWG COPPER CABLE AND COMPRESSION SPADE LUGS.
- INSTALL GROUND (NEUTRAL) CONDUCTOR THAT IS NOT LESS THAN THE PHASE CONDUCTOR AMPACITY. IF HIGH-HARMONICS ARE PRESENT MAKE NEUTRAL AMPACITY 200% OF THE PHASE CONDUCTOR.
- INSTALL BONDING CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250.66 USING THE SERVICE OR SEPARATELY-DERIVED SYSTEM PHASE CONDUCTOR SIZE.
- INSTALL IRREVERSIBLE COMPRESSION CONNECTOR WITH TAMPER-PROOF HARDWARE OR INSTALL EXOTHERMIC WELD. REFER SPEC 28 05 26.
- BOND TO METAL PIPING SYSTEMS IN THE AREA SERVED BY THE SEPARATELY DERIVED SYSTEM.
- INSTALL BONDING JUMPER THAT IS SIZED BASED ON NEC TABLE 250.66 USING THE LARGEST SERVICE OR SEPARATELY DERIVED SYSTEM PHASE CONDUCTOR.
- BOND TO INCOMING WATER MAIN USING EXOTHERMIC WELD PROCESS OR OTHER APPROVED MECHANICAL BONDING PROCESS. REFER SPEC 28 05 26.
- TYPICAL EXOTHERMIC WELD PROCESS OR OTHER APPROVED MECHANICAL BONDING PROCESS. REFER SPEC 28 05 26, UNLESS NOTED OTHERWISE.



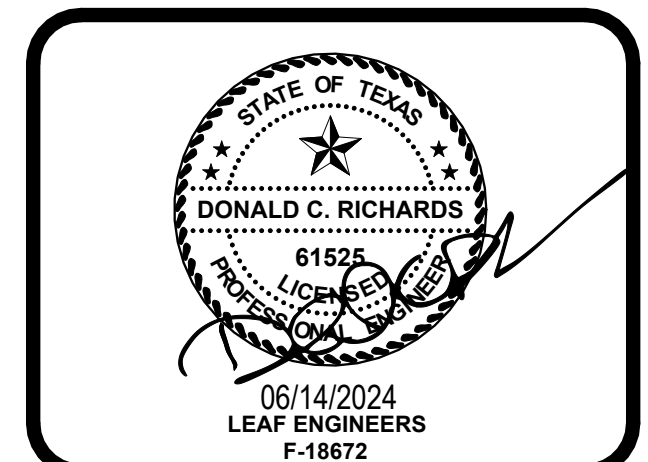
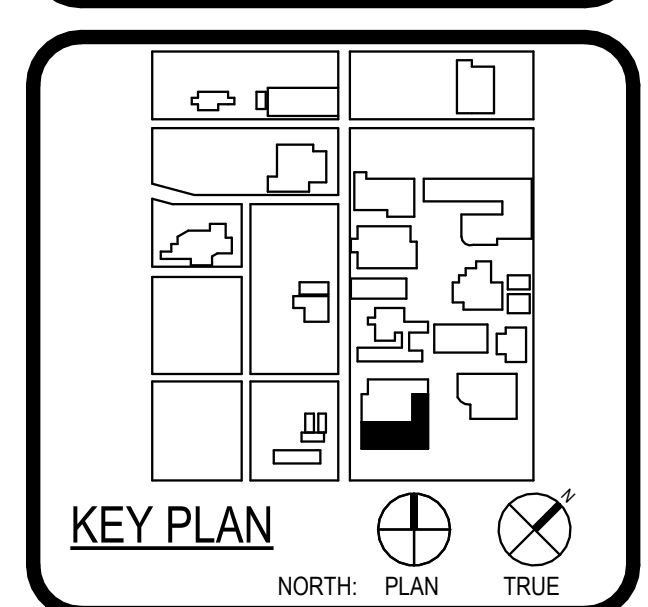
1 GROUNDING CONNECTION DETAIL
SCALE: NOT TO SCALE



ARCHITECT: SAN ANTONIO
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210-820-0123 P
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TX Firm BR 1608



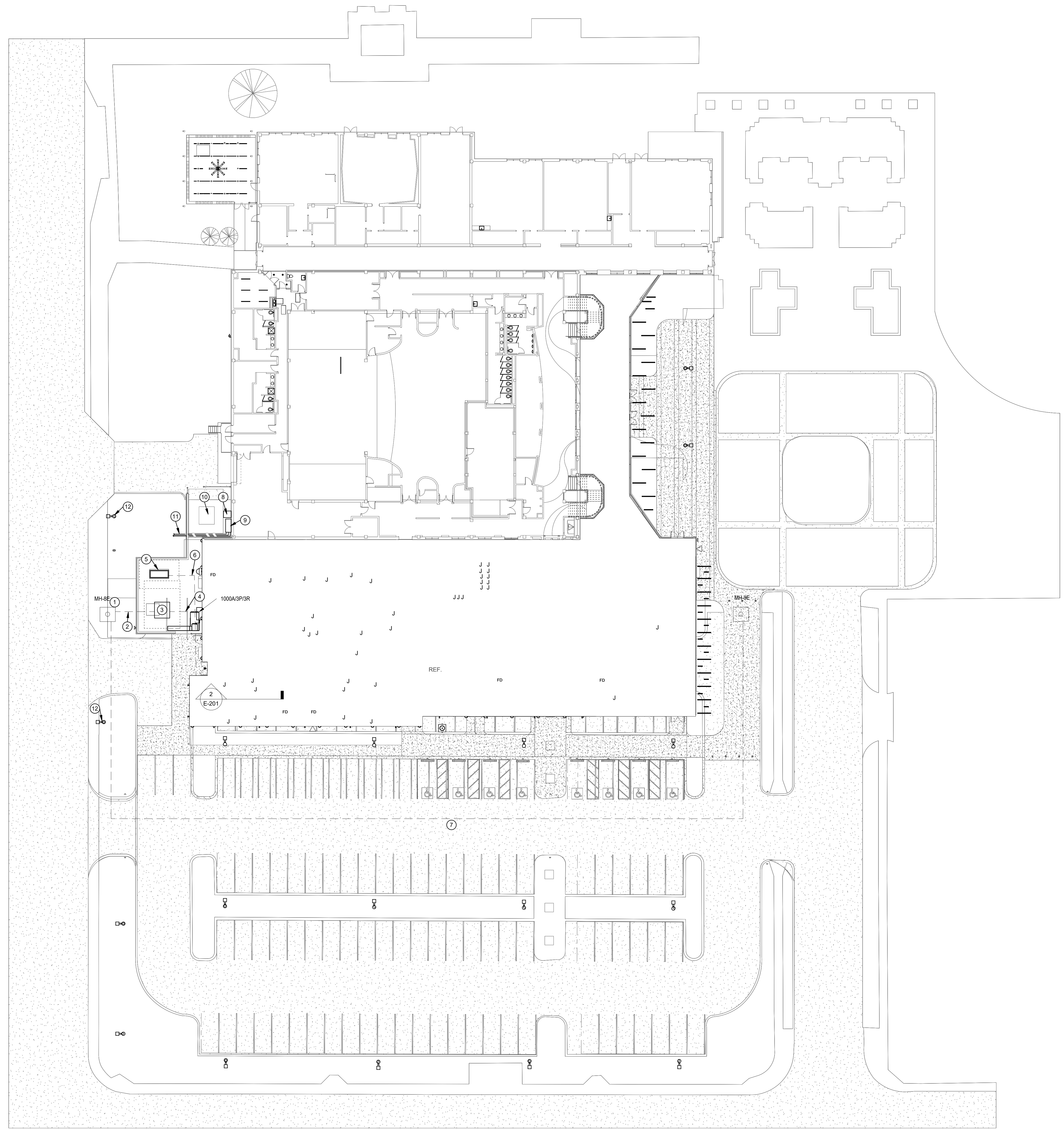
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601 N.W. Loop 410, Suite 400
San Antonio, TX 78216
210-820-0123 P
210-829-9578 F
TX Firm BR 1608



CLIENT		Alamo Colleges
DATE	06/14/2024	PROJECT NUMBER
DRAWING HISTORY		230462
No.	Description	Date

ISSUE FOR CONSTRUCTION
BUILDING NUMBER 1

ELECTRICAL DETAILS



- SITE PLAN GENERAL NOTES:**
- COORDINATE ROUTING FOR ALL UNDERGROUND ELECTRICAL BRANCH CIRCUITS AND FEEDERS WITH OTHER DISCIPLINES PRIOR TO TRENCHING.
 - UNLESS NOTED OTHERWISE ALL UNDERGROUND CONDUIT SHOWN ON THIS PLAN TO BE MINIMUM 1" IN SIZE.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES CAUSED BY INSTALLATION OF NEW WORK.
- SITE PLAN KEYED NOTES:**
- EXISTING ELECTRICAL MANHOLE.
 - NEW UNDERGROUND EASEMENT FOR NEW PRIMARY POWER FOR UTILITY TRANSFORMER. FIELD VERIFY THAT SPARE CAPACITY IS AVAILABLE.
 - NEW 480/277V 750KVA TRANSFORMER SHALL BE PROVIDED FROM ALAMO COLLEGES. CONTRACTOR SHALL COORDINATE EXACT LOCATION WITH ARCHITECTURAL PLANS PROVIDE (1) 1 1/2" CONDUIT FOR POWER.
 - NEW UNDERGROUND ROUTE FOR SECONDARY TO MAIN SERVICE DISCONNECT. PROVIDE (2) 3" CONDUITS FOR POWER.
 - NEW 480/277V, 40 KW CUMMINS MODEL NUMBER: C40 N6 FOR FIRE PUMP.
 - NEW UNDERGROUND PATHWAY FROM GENERATOR TO 2ND FLOOR ATS IN MEZZAINE.
 - REROUTED PATHWAY FOR EXISTING UNDERGROUND DUCKSANK WITH 4 EXISTING CONDUITS. CONTRACTOR SHALL VERIFY EXACT PATHWAY OF EXISTING CONDUITS AND FEEDERS SIZES WITHIN EXISTING MANHOLES. CONTRACTOR SHALL COORDINATE NEW PATHWAY WITH ST. PHILLIPS UTILITY FACILITIES TO ENSURE PATHWAY CAN BE ROUTED.
 - RELOCATED CONDENSING UNIT AND ASSOCIATED DISCONNECT. COORDINATE WITH MECHANICAL FOR EXACT LOCATION.
 - EXISTING DISTRIBUTION MAIN SERVICE DISCONNECT DP-6 FOR ADJACENT WATSON FINE ARTS BUILDING.
 - EXISTING UTILITY TRANSFORMER FOR WATSON FINE ARTS.
 - PROPOSED NEW PATHWAY FOR RELOCATED EXISTING CONDUITS FROM DP-6. CONTRACTOR SHALL VERIFY WHERE CONDUITS ARE FED TO.
 - NEW LOCATION OF PEDESTRIAN POLES. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS. UTILIZE EXISTING CIRCUIT IF AVAILABLE. IF CIRCUIT ISNT OBTAINABLE CONTRACTOR SHALL UTILIZE NEAREST AVAILABLE SPARE IN PANEL WITH IDENTICAL VOL TAGS.

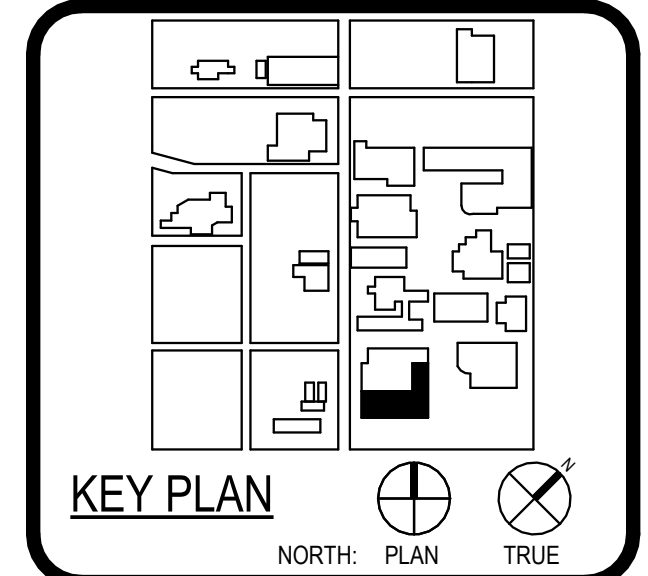
1 SITE POWER PLAN
SCALE: 1" = 20'-0"



ARCHITECT	PBK Architects, Inc. SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608
ASSOCIATE ARCHITECT	B&A ARCHITECTS 1100 N. LOOP WEST SUITE 1000 SAN ANTONIO, TX 78207 210-454-0922
LANDSCAPE ARCHITECT	LANDSCAPE 1111 N. LOOP WEST SUITE 1000 SAN ANTONIO, TX 78207 210-454-0922
MECHANICAL ENGINEER	LUNY & FRANK ENGINEERING 1111 N. LOOP WEST SUITE 1000 SAN ANTONIO, TX 78207 210-454-0922
ELECTRICAL ENGINEER	MEAN PROFESSIONALS 1111 N. LOOP WEST SUITE 1000 SAN ANTONIO, TX 78207 210-454-0922



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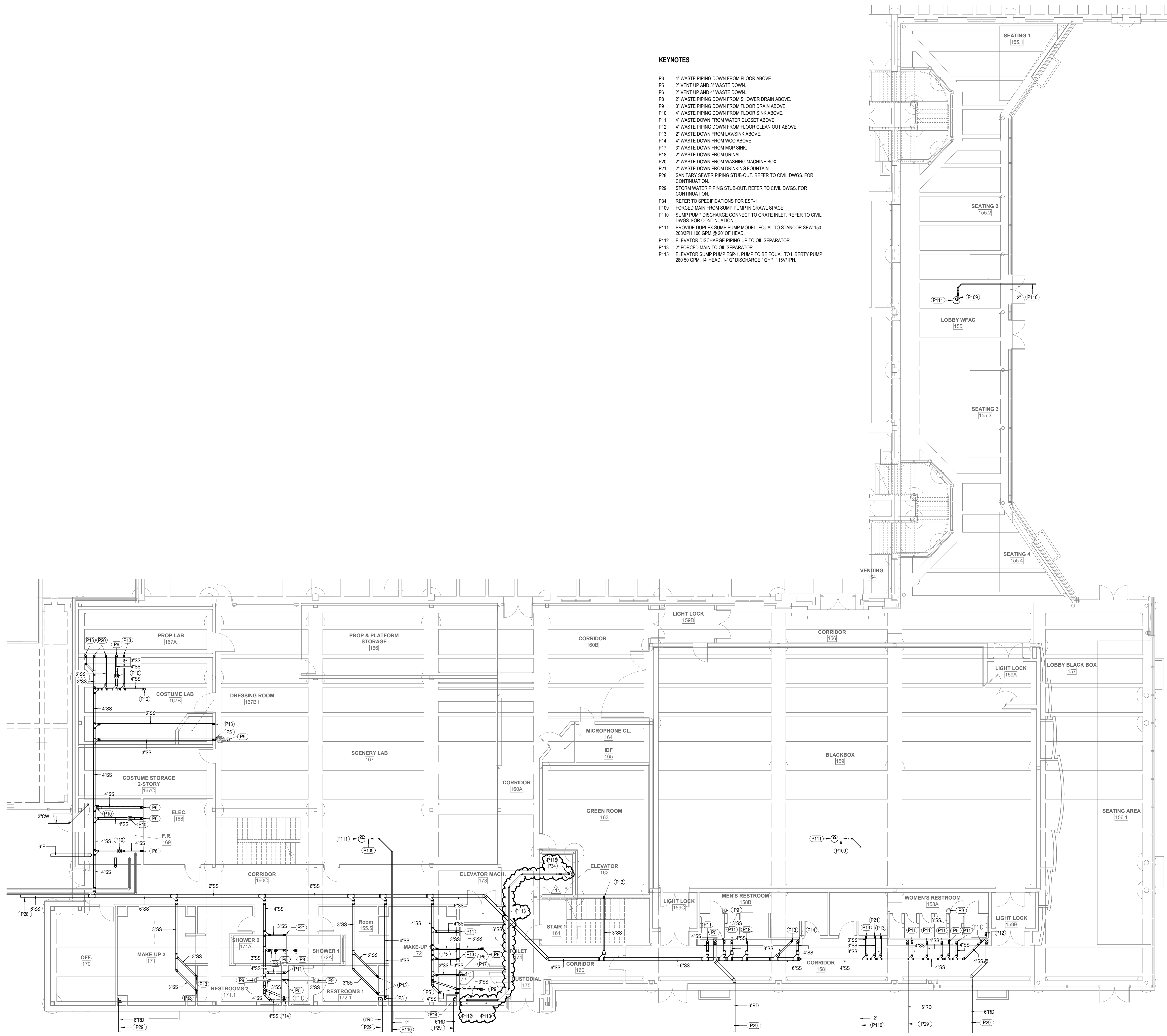
CLIENT	Alamo Colleges	
DATE	06/14/2024	
PROJECT NUMBER	230462	
DRAWING HISTORY		
No.	Description	Date

ISSUE FOR CONSTRUCTION
BUILDING NUMBER 1

SITE POWER PLAN

KEYNOTES

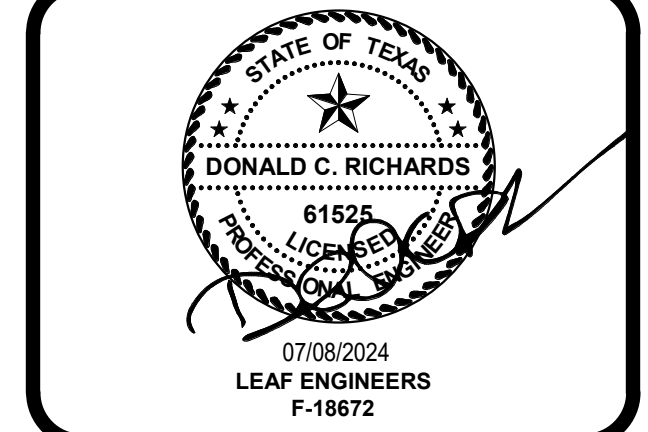
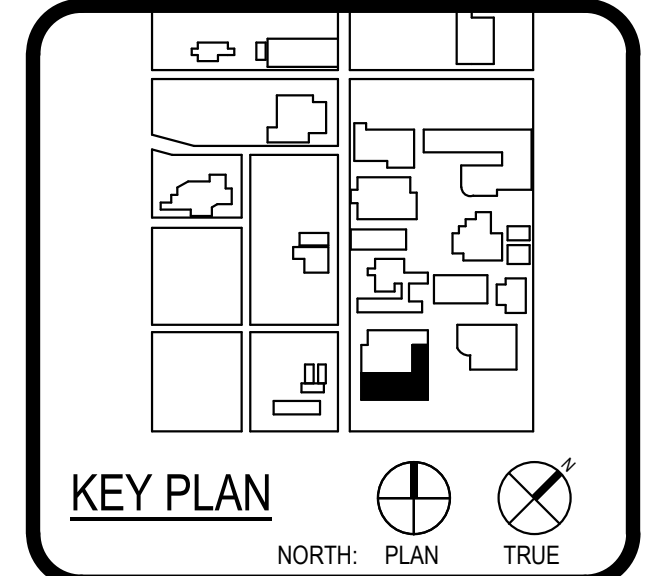
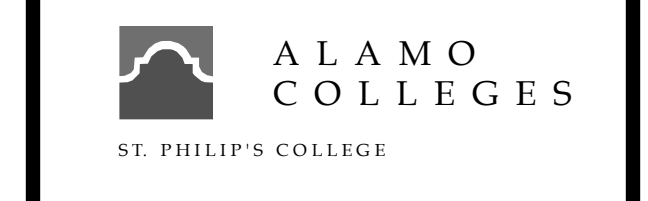
- P3 4" WASTE PIPING DOWN FROM FLOOR ABOVE.
- P5 2" VENT UP AND 3" WASTE DOWN.
- P6 2" VENT UP AND 4" WASTE DOWN.
- P8 2" WASTE PIPING DOWN FROM SHOWER DRAIN ABOVE.
- P9 3" WASTE PIPING DOWN FROM FLOOR DRAIN ABOVE.
- P10 4" WASTE PIPING DOWN FROM FLOOR SINK ABOVE.
- P11 4" WASTE DOWN FROM WATER CLOSET ABOVE.
- P12 4" WASTE PIPING DOWN FROM FLOOR CLEAN OUT ABOVE.
- P13 2" WASTE DOWN FROM LAV/SINK ABOVE.
- P14 4" WASTE DOWN FROM WCO ABOVE.
- P17 3" WASTE DOWN FROM MOP SINK.
- P18 2" WASTE DOWN FROM URINAL.
- P20 2" WASTE DOWN FROM WASHING MACHINE BOX.
- P21 2" WASTE DOWN FROM DRINKING FOUNTAIN.
- P28 SANITARY SEWER PIPING STUB-OUT. REFER TO CIVIL DWGS. FOR CONTINUATION.
- P29 STORM WATER PIPING STUB-OUT. REFER TO CIVIL DWGS. FOR CONTINUATION.
- P34 REFER TO SPECIFICATIONS FOR ESP-1
- P109 FORCED MAIN FROM SUMP PUMP IN CRAWL SPACE.
- P110 SUMP PUMP DISCHARGE CONNECT TO GRATE INLET. REFER TO CIVIL DWGS. FOR CONTINUATION.
- P111 PROVIDE DUPLEX SUMP PUMP MODEL EQUAL TO STANCOR SEW-150 200/3PH 100 GPM @ 20' OF HEAD.
- P112 ELEVATOR DISCHARGE PIPING UP TO OIL SEPARATOR.
- P113 2" FORCED MAIN TO OIL SEPARATOR.
- P115 ELEVATOR SUMP PUMP ESP-1. PUMP TO BE EQUAL TO LIBERTY PUMP 280 50 GPM, 14' HEAD, 1-1/2" DISCHARGE 1/2HP, 115V/1PH.



ARCHITECT PBK Architects, Inc.
 SAN ANTONIO
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WFAC Black Box Addition PKG 1
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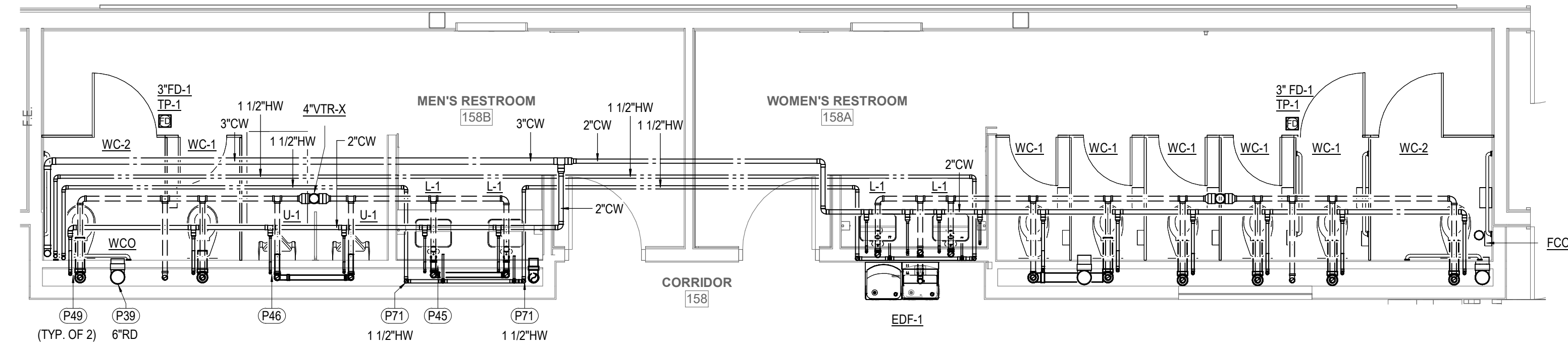
No.	Description	Date
1	CITY COMMENTS	06/05/2024
2	CITY COMMENTS	06/12/2024
3	CITY COMMENTS	06/24/2024
4	CITY COMMENTS	07/08/2024

90%CD - IFR
 BUILDING NUMBER 1

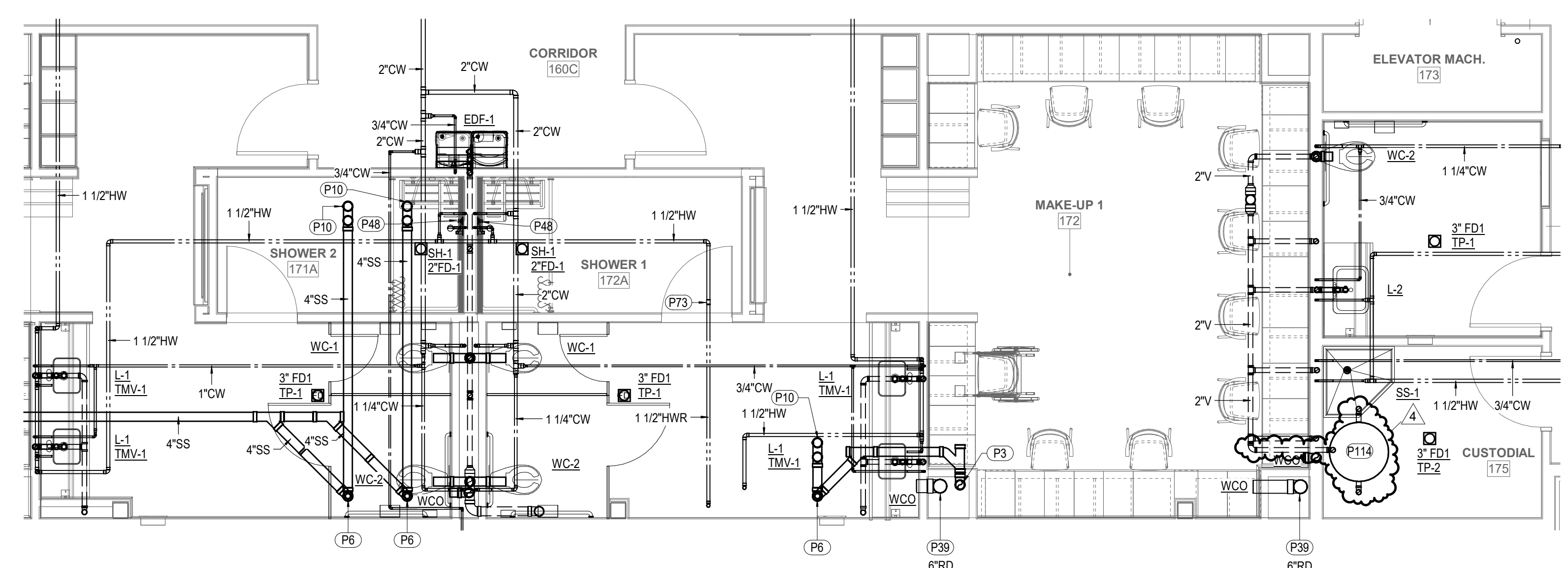
CRAWLSPACE PLUMBING PLAN

PU-101-A

5
1



1 1ST LEVEL ENLARGED PLUMBING PLAN - AREA C
SCALE: 1/4" = 1'-0"



2 1ST LEVEL ENLARGED PLUMBING PLAN - AREA D
SCALE: 1/4" = 1'-0"

KEYNOTES

- P3 4" WASTE PIPING DOWN FROM FLOOR ABOVE.
- P6 2" VENT UP AND 4" WASTE DOWN.
- P10 4" WASTE PIPING DOWN FROM FLOOR ABOVE.
- P39 ROOF DRAIN PIPING DOWN TO BELOW FLOOR. SIZE AS NOTED.
- P45 3/4" COLD WATER, 3/4" HOT WATER DOWN AND 2" VENT UP.
- P46 3/4" COLD WATER DOWN AND 2" VENT UP.
- P48 3/4" COLD WATER AND 3/4" HOT WATER DOWN TO SHOWER VALVE.
- P49 1 1/4" COLD WATER DOWN AND 2" VENT UP.
- P71 HOT WATER DOWN IN CHASE / WALL SIZE AS NOTED.
- P73 PROVIDE BALANCING VALVE.
- P114 PROVIDE ELEVATOR SLUMP SYSTEM EQUAL TO PARK ELYC-100 SEPARATOR MODEL ESC-100 50 GPM FLOW RATE 100 GALLON CAPACITY.

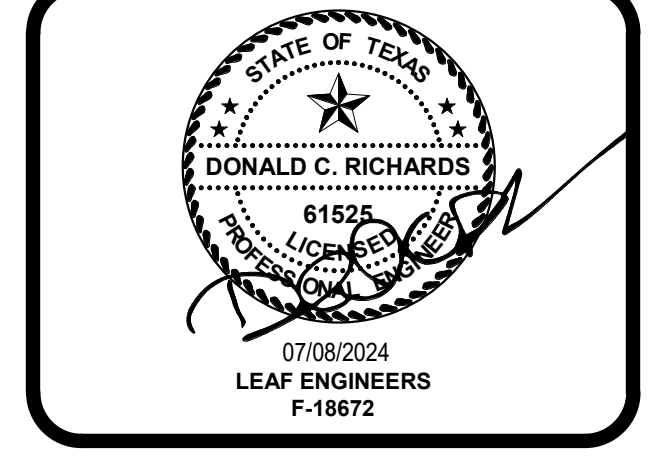
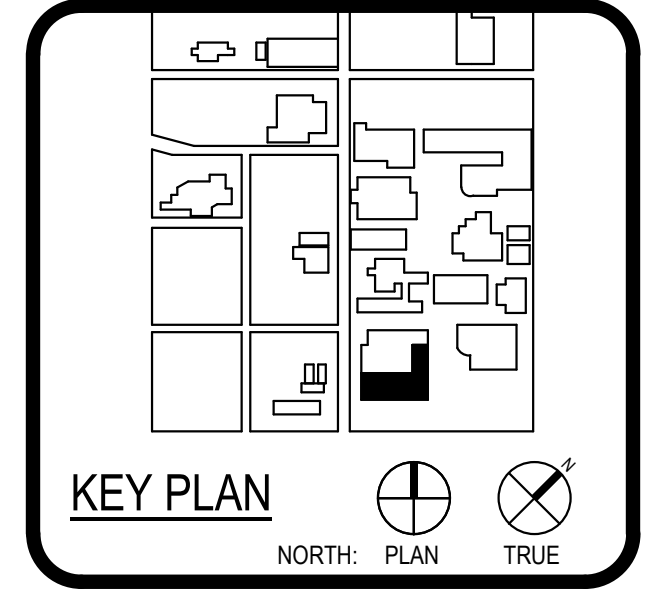
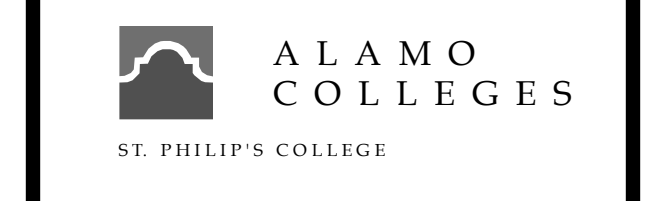


ARCHITECT	PBK Architects, Inc. SAN ANTONIO 601 N. W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P TX Firm SR 1659
ASSOCIATE ARCHITECT	KEVIN ARCHITECTS 1710 SAN ANTONIO
DESIGNER	KEVIN ARCHITECTS 1710 SAN ANTONIO
ENGINEER	LEAF ENGINEERS 1801 MAIN LUTHER KING DR. SAN ANTONIO, TX 78203
MECHANICAL ENGINEER	LEAF ENGINEERS 1801 MAIN LUTHER KING DR. SAN ANTONIO, TX 78203
ELECTRICAL	LEAF ENGINEERS 1801 MAIN LUTHER KING DR. SAN ANTONIO, TX 78203
PLUMBING	LEAF ENGINEERS 1801 MAIN LUTHER KING DR. SAN ANTONIO, TX 78203
MECHANICAL PROFESSIONALS	LEAF ENGINEERS 1801 MAIN LUTHER KING DR. SAN ANTONIO, TX 78203
PLUMBING PROFESSIONALS	LEAF ENGINEERS 1801 MAIN LUTHER KING DR. SAN ANTONIO, TX 78203



WFAC Black Box Addition PKG 1

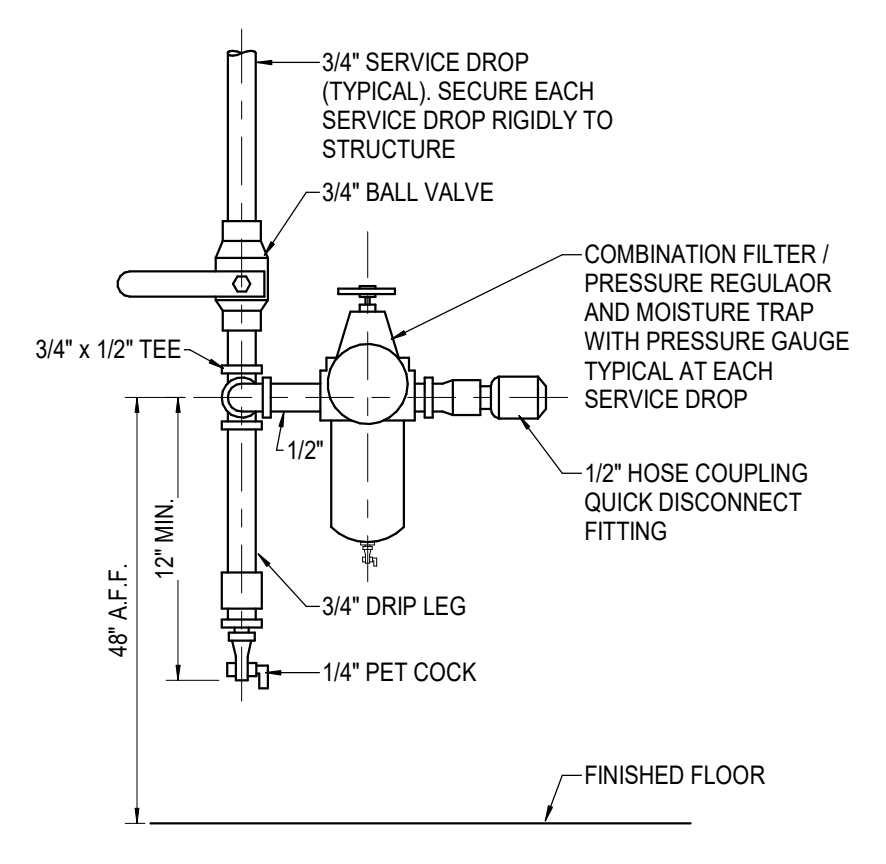
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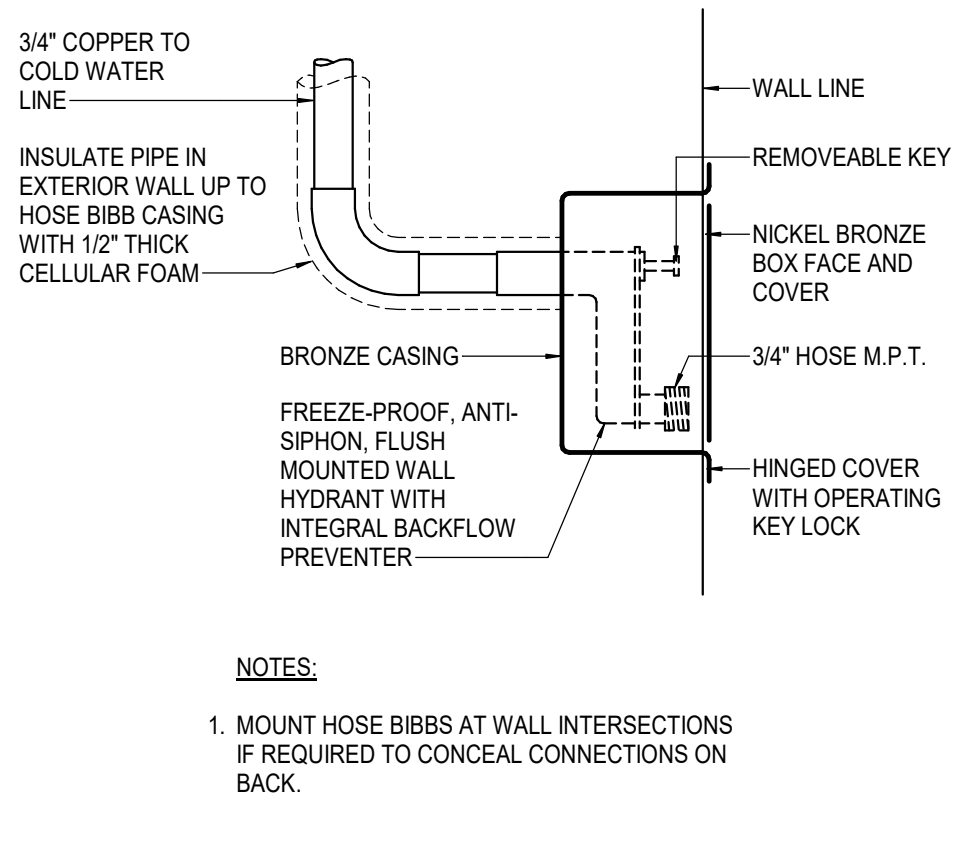
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DATE	07/08/2024	PROJECT NUMBER
DRAWING HISTORY		230462
No.	Description	Date
4	CITY COMMENTS	07/08/2024
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BUILDING NUMBER	1	

PLUMBING ENLARGED PLAN

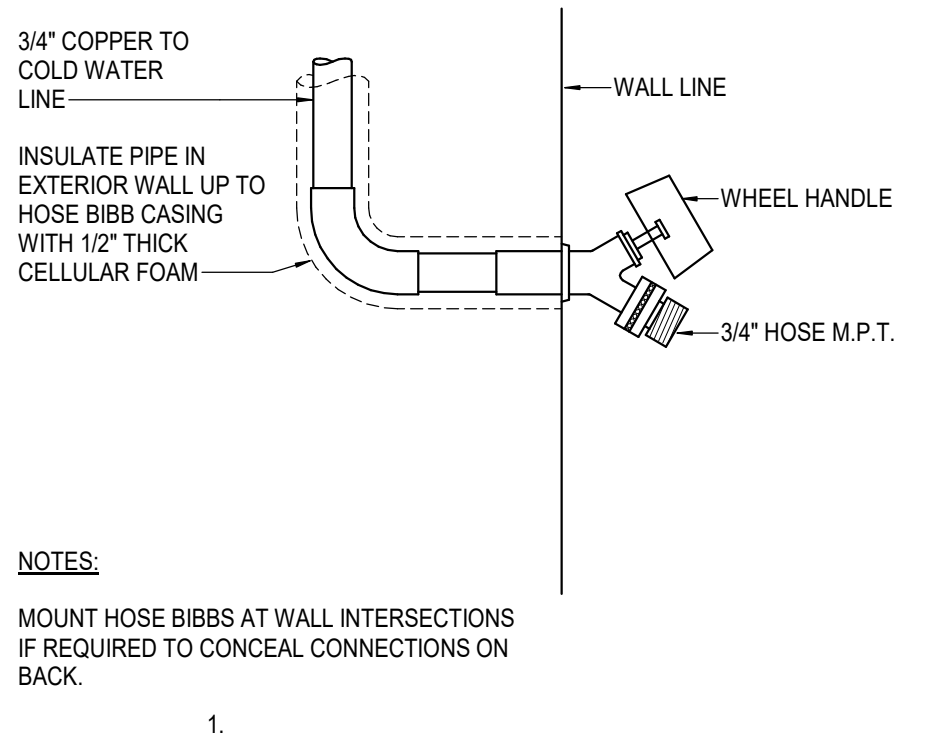
P-401



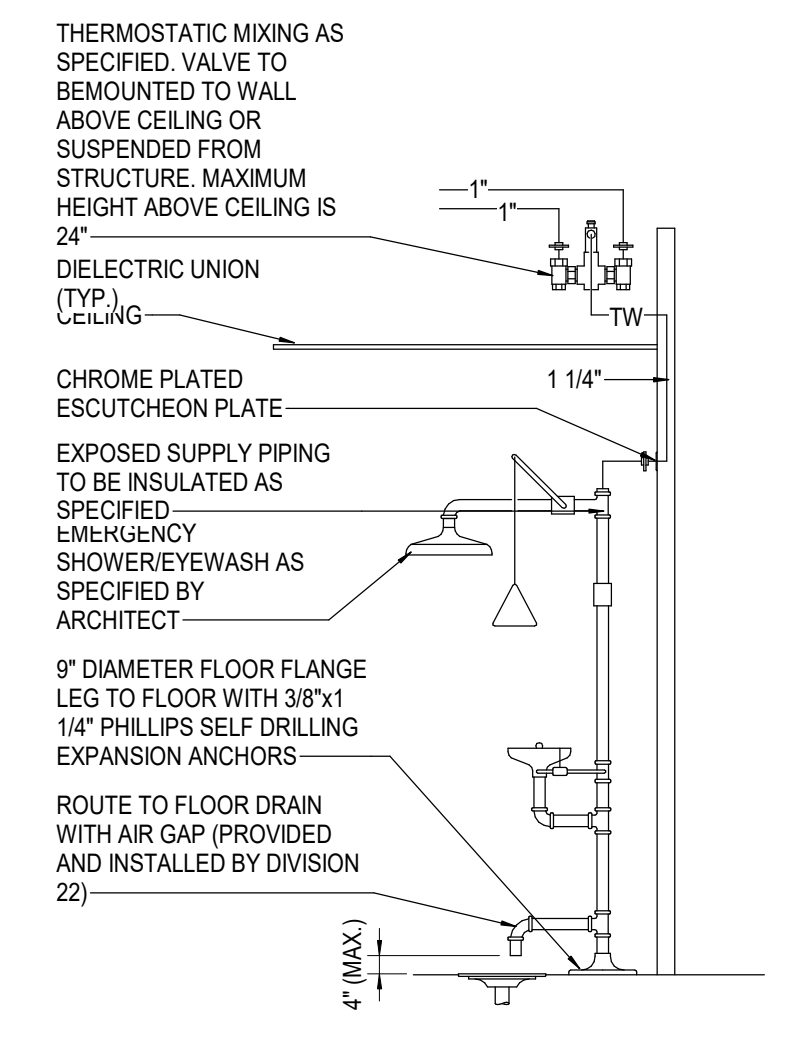
10 COMPRESSED AIR OUTLET DETAIL
SCALE: NOT TO SCALE



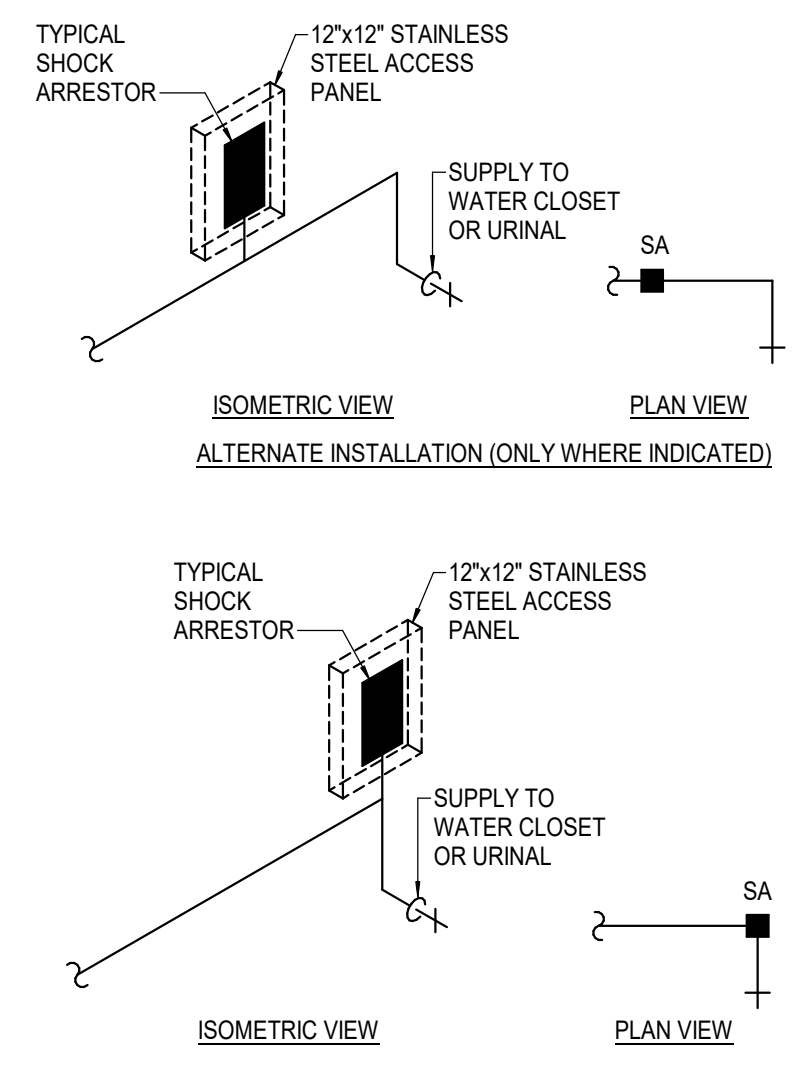
11 WALL HYDRANT DETAIL
SCALE: NOT TO SCALE



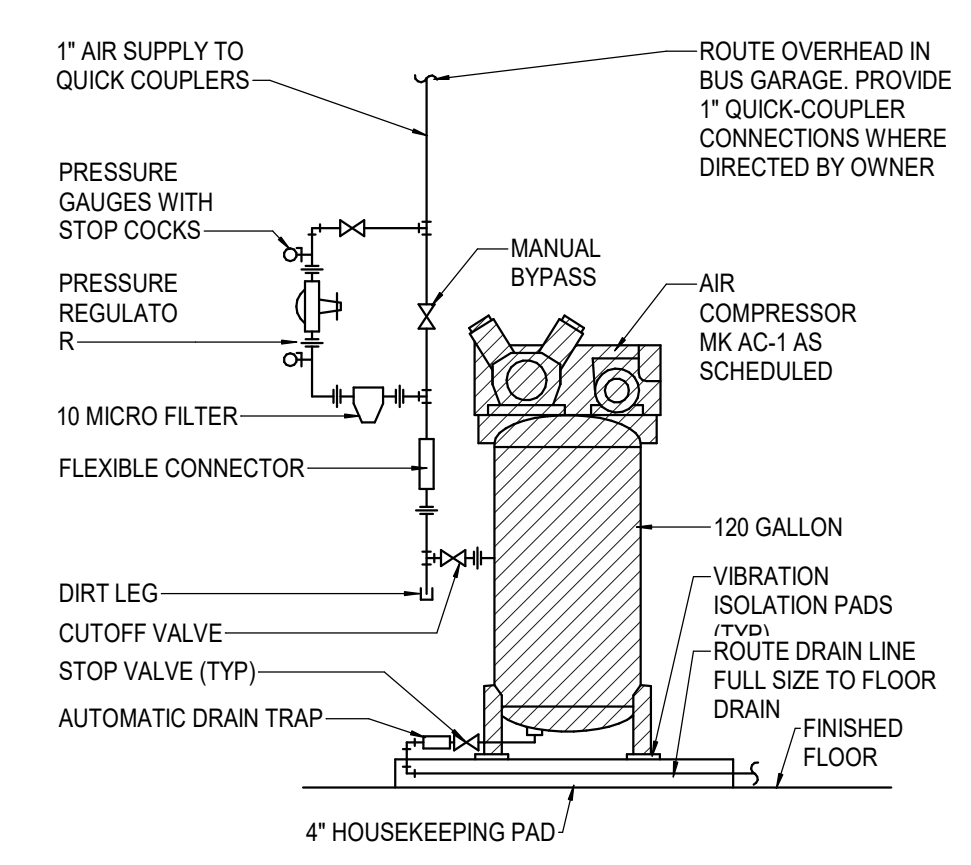
12 WALL HYDRANT DETAIL
SCALE: NOT TO SCALE



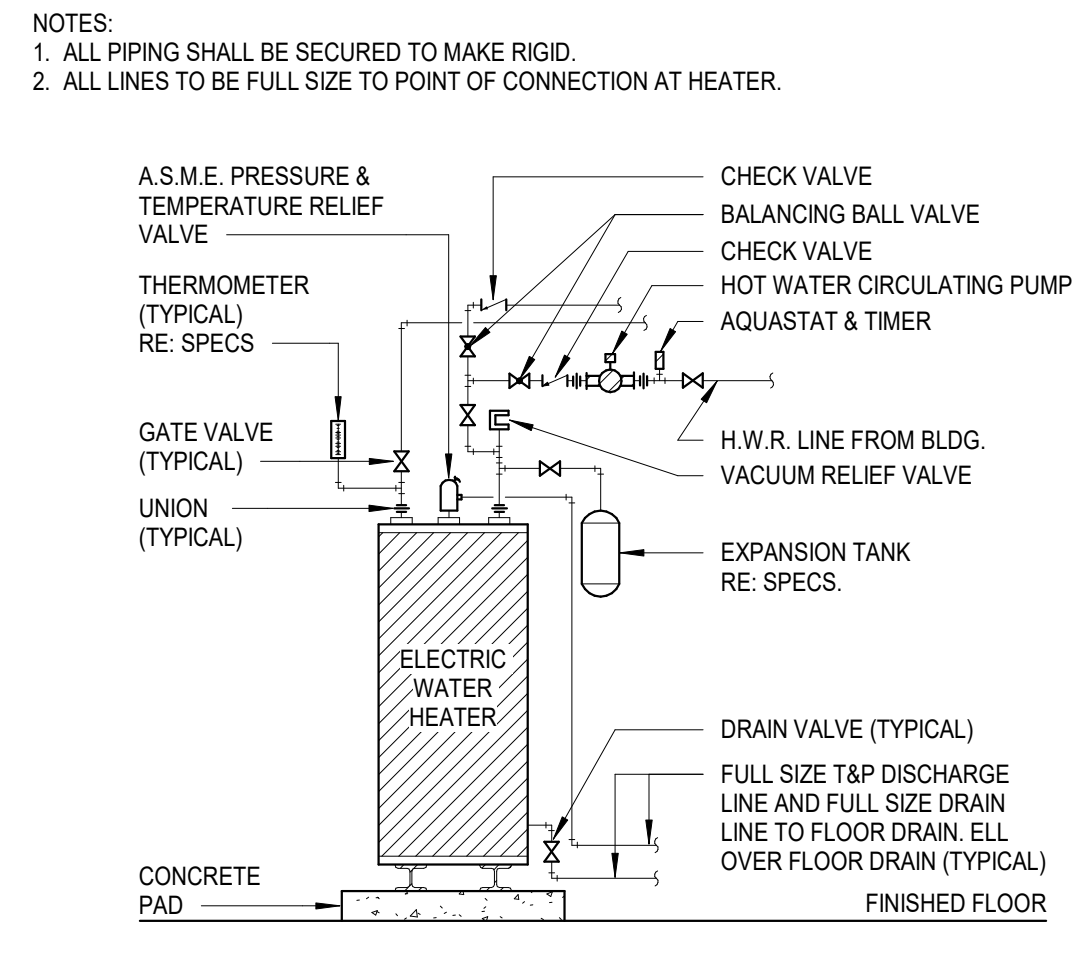
7 EMERGENCY SHOWER/EYEWASH DETAIL
SCALE: NOT TO SCALE



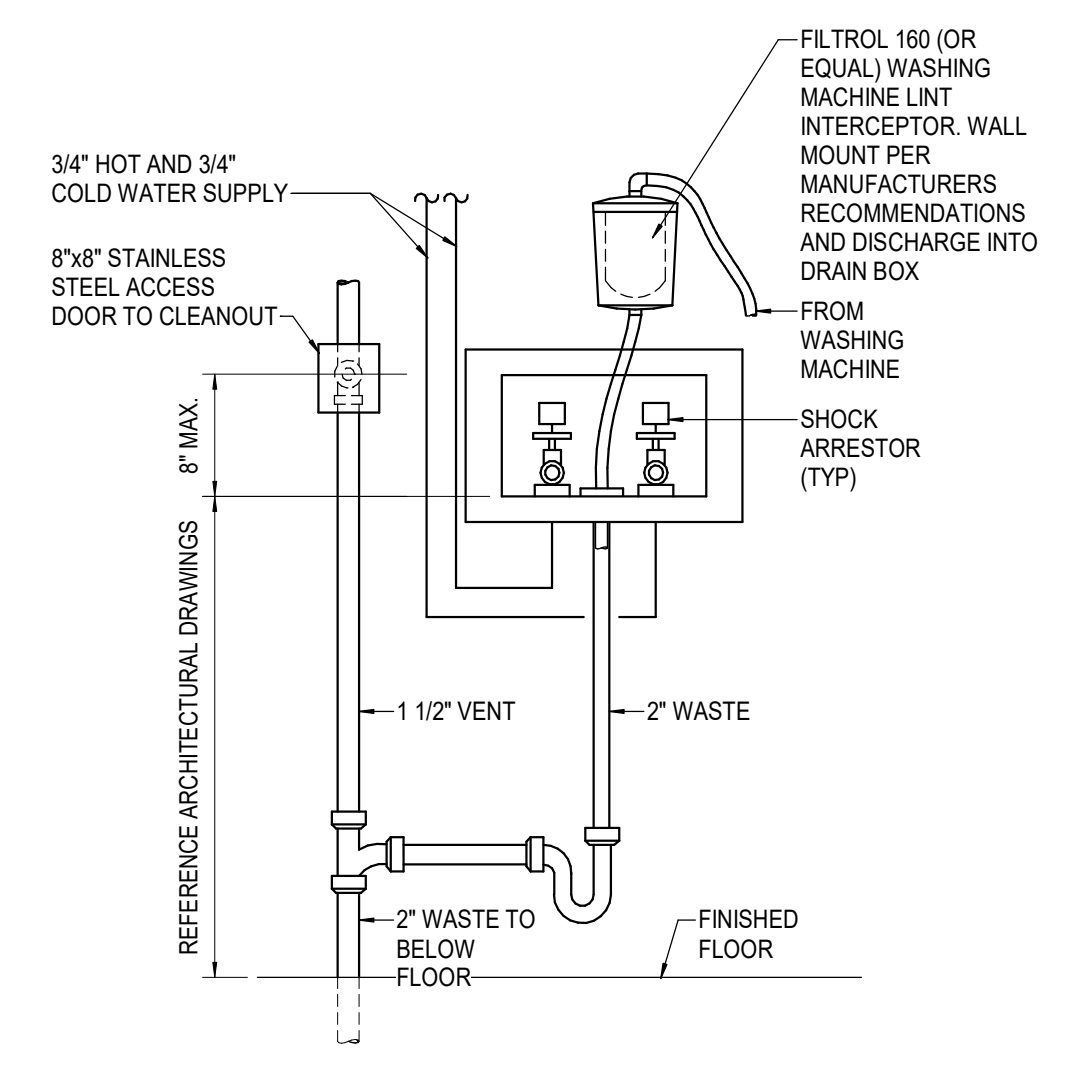
8 SHOCK ARRESTOR DETAIL
SCALE: NOT TO SCALE



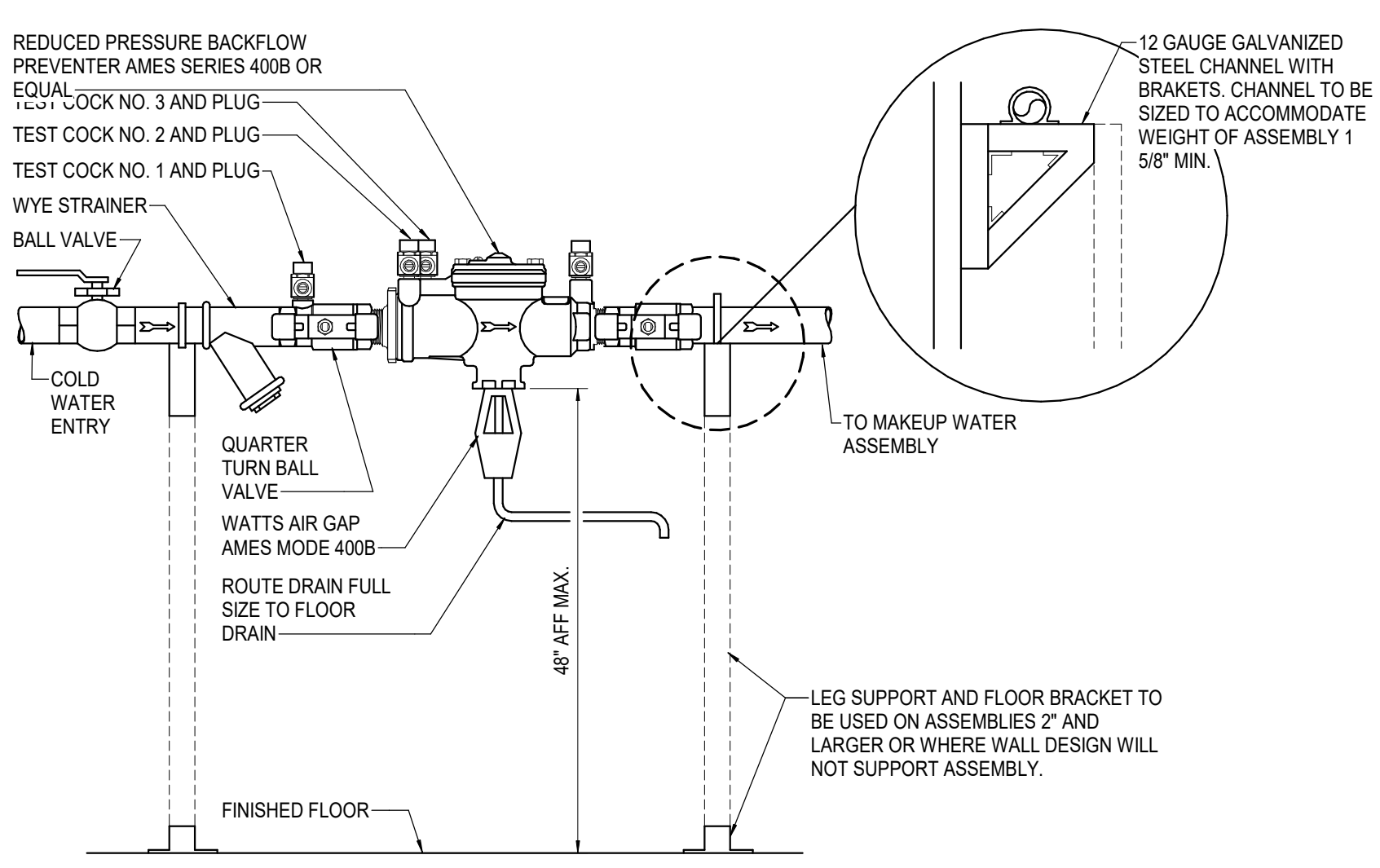
9 AIR COMPRESSOR PIPING DETAIL
SCALE: NOT TO SCALE



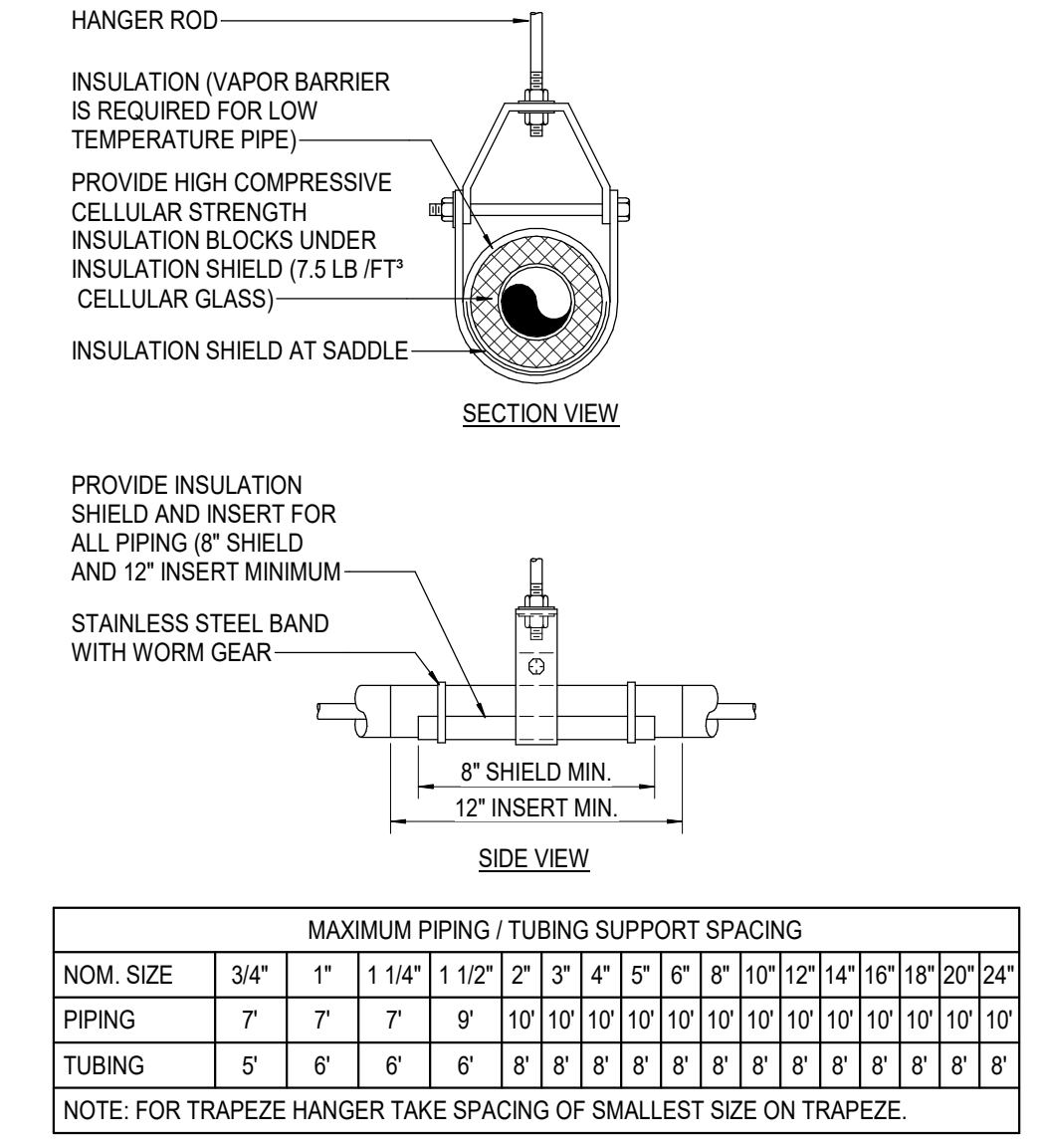
4 ELECTRIC WATER HEATER PIPING
SCALE: N.T.S.



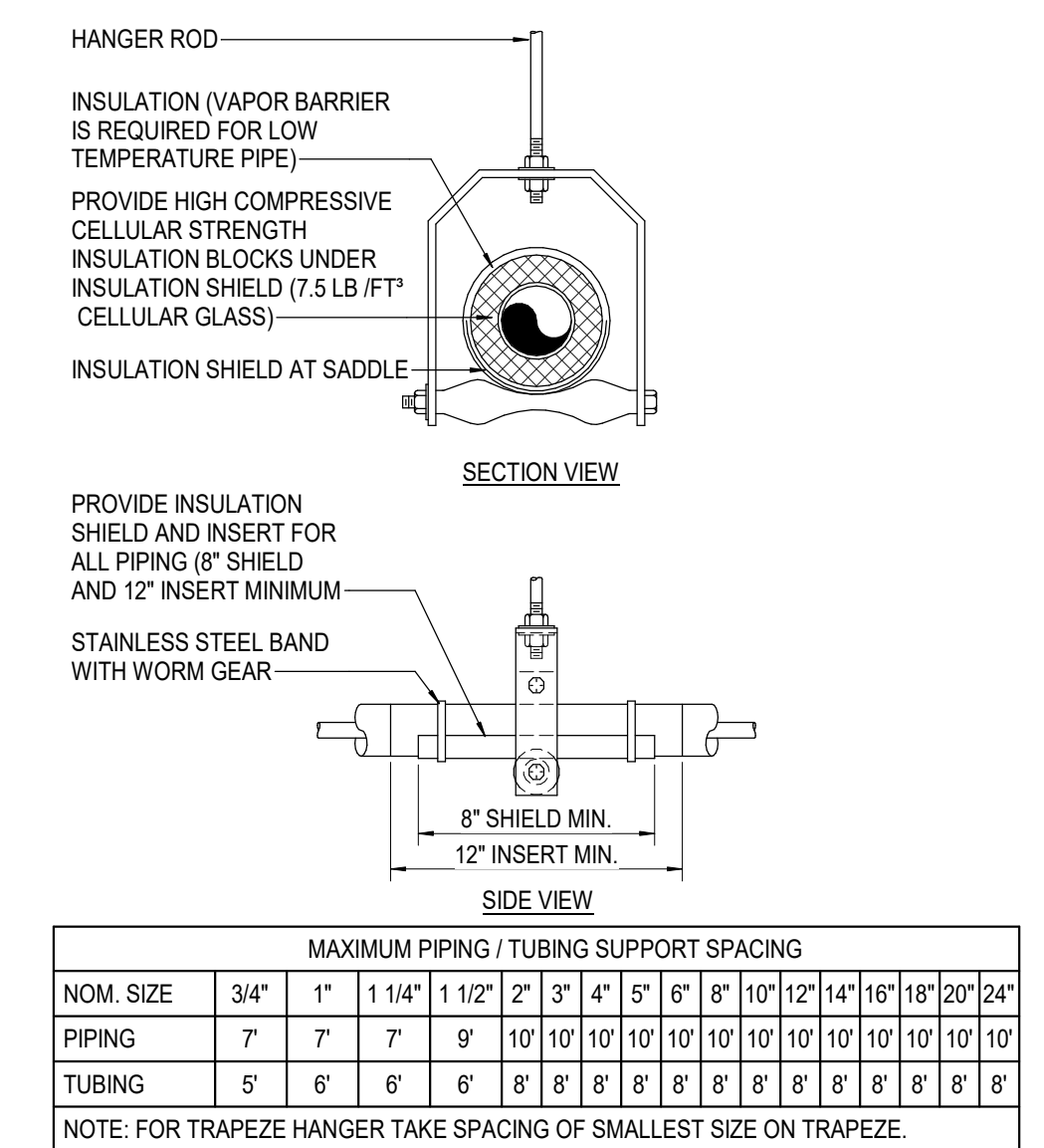
5 WASHER / DRAIN BOX CONNECTION DETAIL
SCALE: NOT TO SCALE



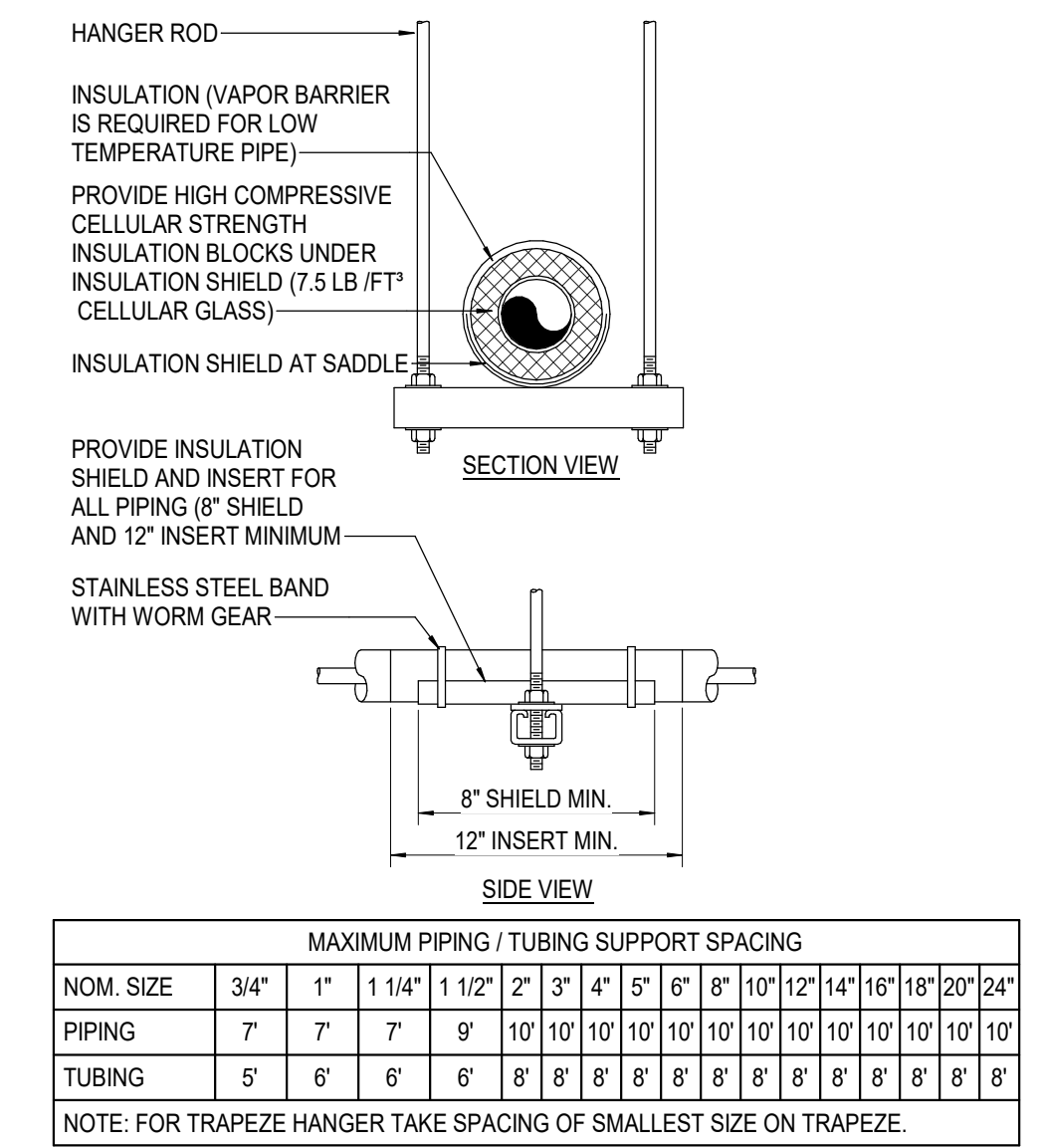
6 BACKFLOW PREVENTER MOUNTING DETAIL
SCALE: NOT TO SCALE



1 ADJUSTABLE CLEVIS PIPE HANGER DETAIL
SCALE: NOT TO SCALE



2 ADJUSTABLE ROLLER PIPE HANGER DETAIL
SCALE: NOT TO SCALE



3 TRAPEZE PIPE HANGER DETAIL
SCALE: NOT TO SCALE



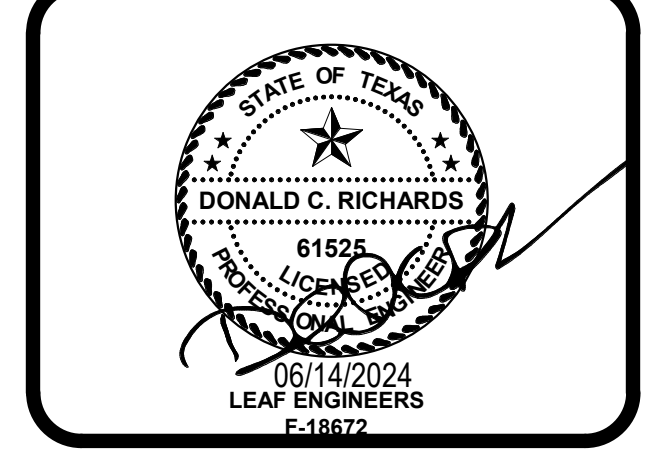
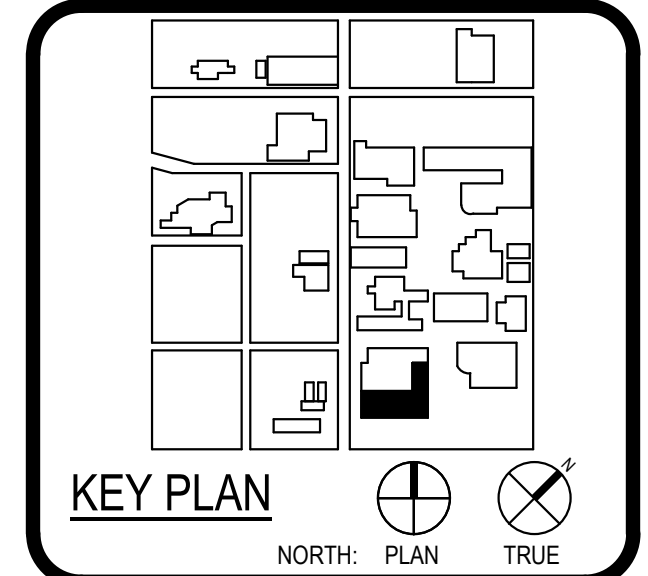
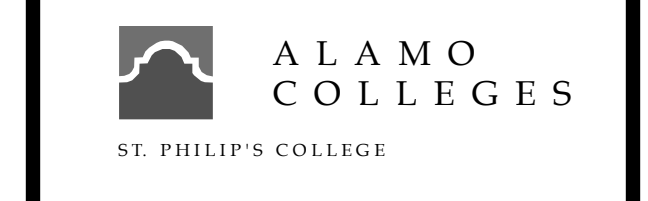
ARCHITECT	PBK Architects, Inc.
SAN ANTONIO	
601 N.W. Loop 410, Suite 400	
San Antonio, TX 78216	
210-820-0123 P	
210-829-0578 F	
TX Firm BR 1608	
ASSOCIATE ARCHITECT	MAX ARCHITECTS
1101 W. LOOP 410	
SAN ANTONIO, TX 78216	
DESIGNER	LANDSCAPE
1101 W. LOOP 410	
SAN ANTONIO, TX 78216	
LANDSCAPE ARCHITECT	LANDSCAPE
1101 W. LOOP 410	
SAN ANTONIO, TX 78216	
MECHANICAL	MECHANICAL
1101 W. LOOP 410	
SAN ANTONIO, TX 78216	
ELECTRICAL	ELECTRICAL
1101 W. LOOP 410	
SAN ANTONIO, TX 78216	



WFAC Black Box Addition PKG 1

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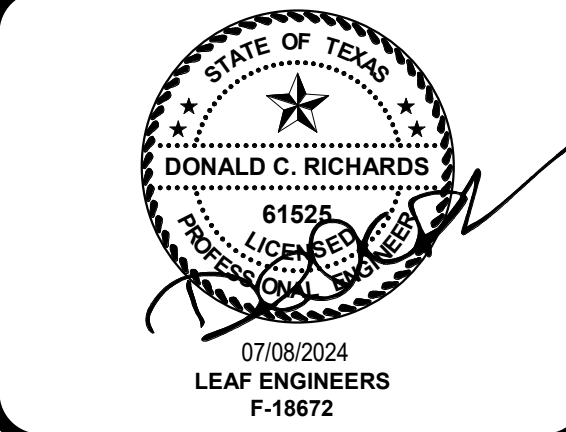
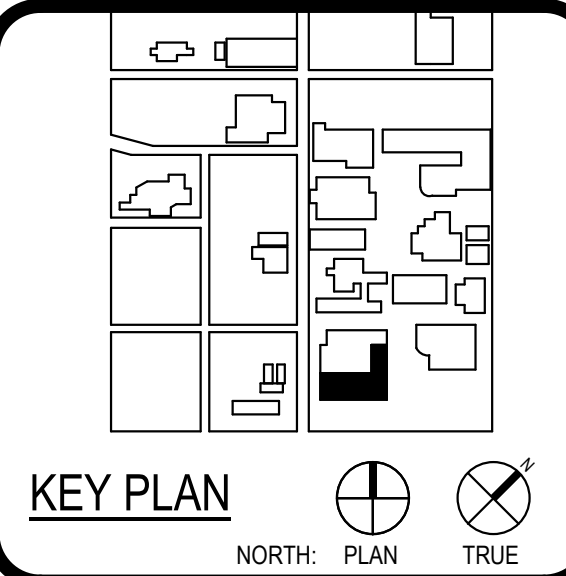
ISSUE FOR CONSTRUCTION



CLIENT	Alamo Colleges	
DATE	06/14/2024	
PROJECT NUMBER	230462	
DRAWING HISTORY		
No.	Description	Date

ISSUE FOR CONSTRUCTION
BUILDING NUMBER 1

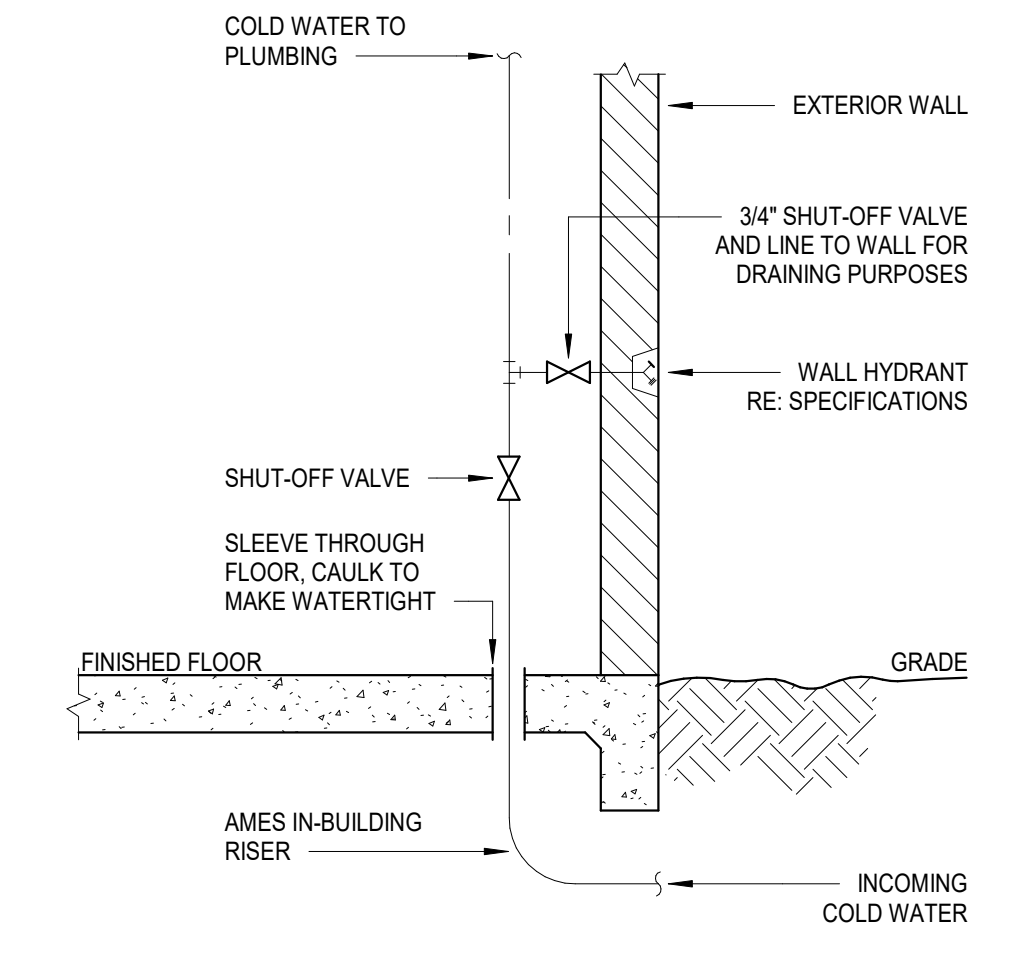
PLUMBING DETAILS



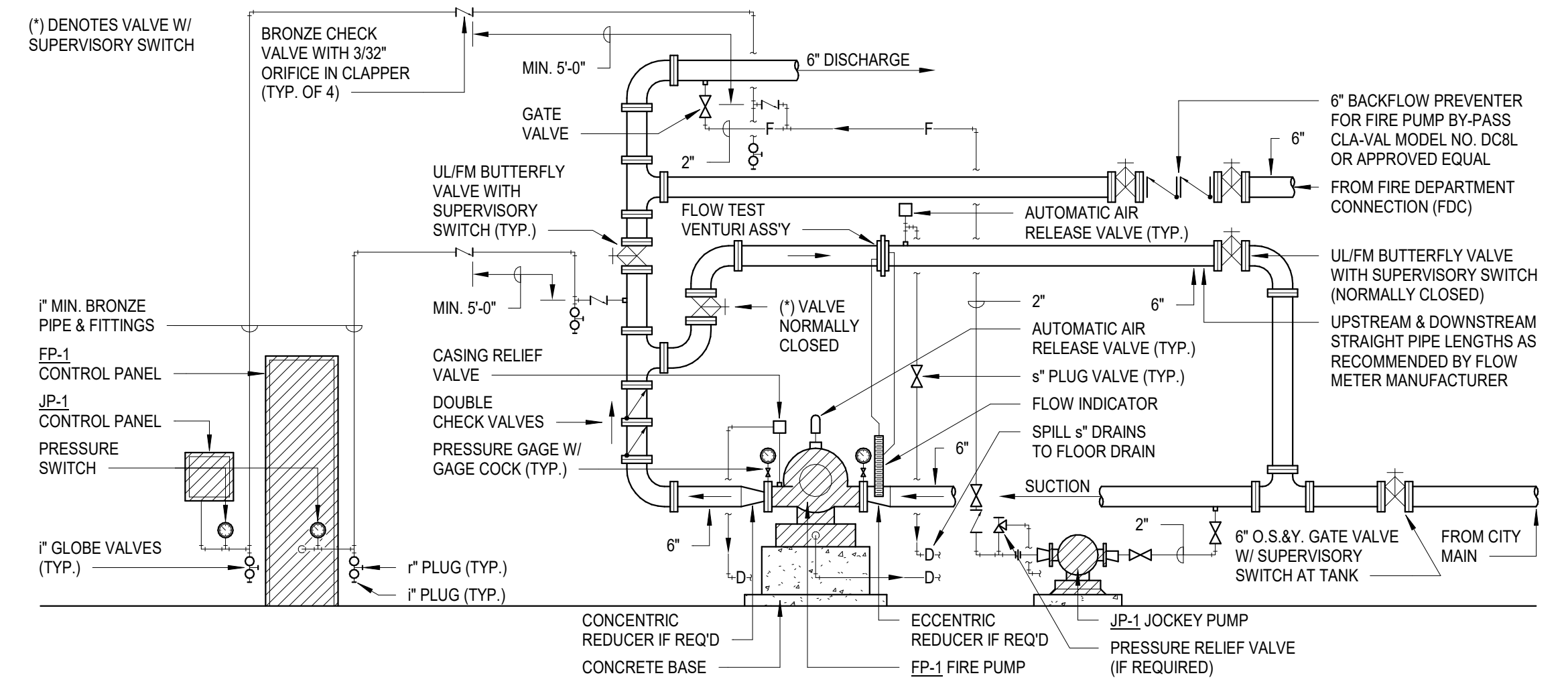
CLIENT Alamo Colleges
 DATE 07/08/2024 PROJECT NUMBER 230462

No.	Description	Date
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4	CITY COMMENTS	07/08/2024

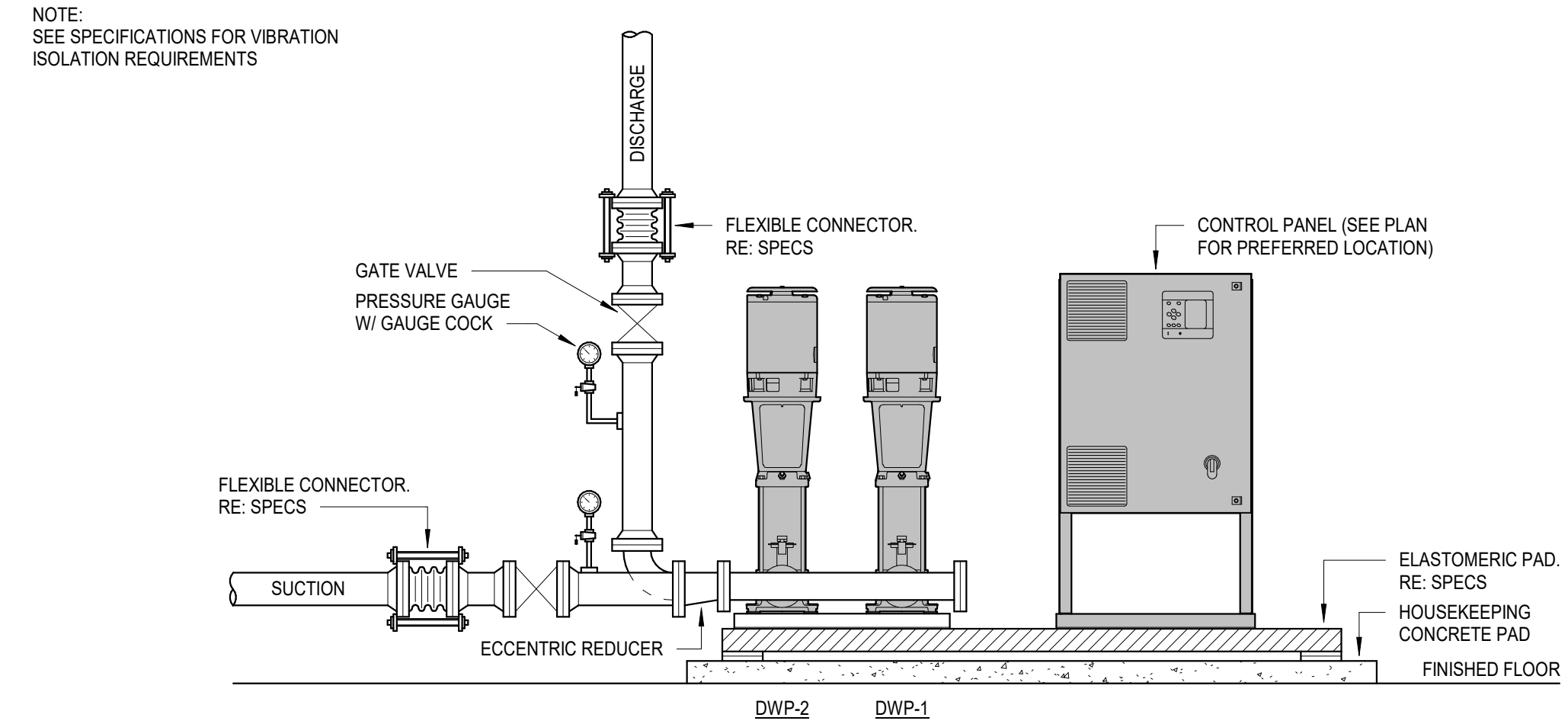
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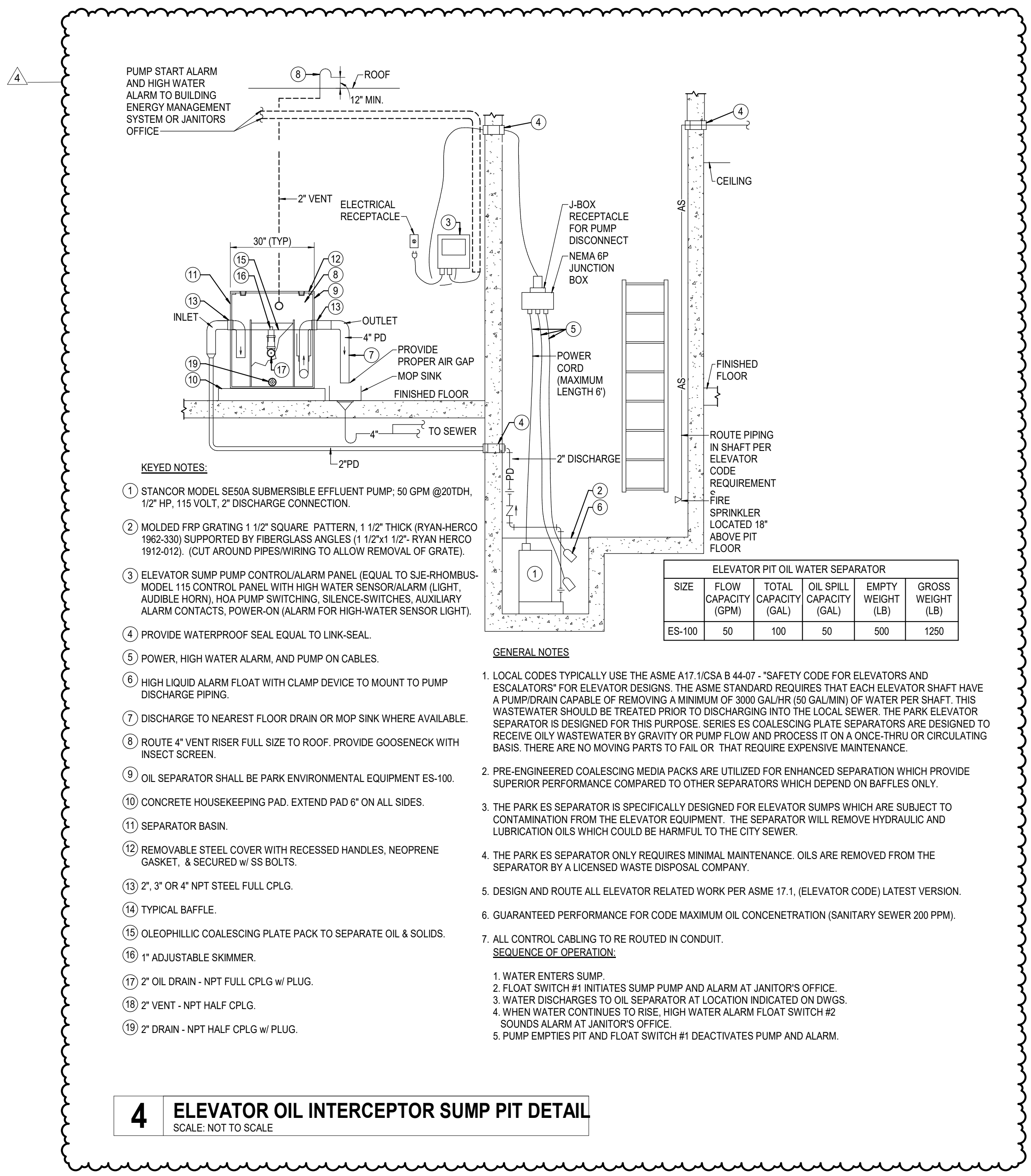
1 DOMESTIC COLD WATER ENTRY
 SCALE: N.T.S.



2 FIRE PUMP
 SCALE: N.T.S.



3 DUPLEX PACKAGE PUMPING SYSTEM
 SCALE: N.T.S.



4 ELEVATOR OIL INTERCEPTOR SUMP PIT DETAIL
 SCALE: NOT TO SCALE

GROUP SYMBOL DESCRIPTION

Table with 3 columns: SYMBOL, DESCRIPTION. Contains fire alarm legend items like FOOT ADDED TO ANY SYMBOL, MANUAL FIRE ALARM PULL STATION, FIRE ALARM SPEAKER OR HORN, etc.

- NOTE: 1. EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS. REFER TO GENERAL ELECTRICAL NOTES FOR WALL-MOUNTED DEVICE MOUNTING HEIGHTS AND BACK BOX REQUIREMENTS.

SEQUENCE OF OPERATIONS

- 1. WHEN A FIRE ALARM CONDITION IS DETECTED BY ANY OF THE SYSTEM ALARM INITIATING DEVICES THE CONTROL PANEL MUST RESPOND WITHIN 3 SECONDS, THE FOLLOWING FUNCTIONS OCCUR:
A. THE SYSTEM COMMON ALARM LED ON THE CPU MODULE SHALL FLASH...

Table with 3 columns: SYMBOL, DESCRIPTION. Contains general fire alarm notes like 1. ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF THE FIRE ALARM SYSTEMS SHALL BE A DEDICATED CIRCUIT...

Table with 3 columns: SYMBOL, DESCRIPTION. Contains audio & video general notes like 1. ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF EACH SYSTEM SHALL BE A DEDICATED CIRCUIT...

SECURITY SYSTEMS LEGEND

Table with 3 columns: SYMBOL, DESCRIPTION. Contains security systems legend items like INTERIOR VIDEO SURVEILLANCE CAMERA, EXTERIOR WALL MOUNTED CAMERA, etc.

- NOTE: 1. EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS. REFER TO GENERAL ELECTRICAL NOTES FOR WALL-MOUNTED DEVICE MOUNTING HEIGHTS.

BDA/DAS SYSTEMS LEGEND

Table with 3 columns: SYMBOL, DESCRIPTION. Contains BDA/DAS systems legend items like BI-DIRECTIONAL AMPLIFIER (BDA) SIGNAL BOOSTER, BDA ANNUNCIATOR PANEL.

- NOTE: 1. EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON THE DRAWINGS. REFER TO THE SPECIFICATIONS AND THE TECHNOLOGY SYSTEMS GENERAL NOTES FOR INSTALLATION REQUIREMENTS.

Table with 3 columns: SYMBOL, DESCRIPTION. Contains technology plan general notes like 1. ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF THE TELECOMMUNICATION NETWORK...

SECURITY GENERAL NOTES

- 1. ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF THE ACCESS CONTROL, BURGLAR ALARM, AND SECURITY CAMERA SYSTEMS SHALL BE A DEDICATED CIRCUIT AND ON EMERGENCY POWER SUPPLIES AVAILABLE.

SECURITY GENERAL NOTES

- 1. ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF THE ACCESS CONTROL, BURGLAR ALARM, AND SECURITY CAMERA SYSTEMS SHALL BE A DEDICATED CIRCUIT AND ON EMERGENCY POWER SUPPLIES AVAILABLE.

Table with 3 columns: SYMBOL, DESCRIPTION. Contains technology legend items like INDICATES THE LOCATION OF A NEW TECHNOLOGY OUTLET, INDICATES THE LOCATION OF A CEILING MOUNTED OUTLET, etc.

SECURITY GENERAL NOTES

- 1. ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF THE ACCESS CONTROL, BURGLAR ALARM, AND SECURITY CAMERA SYSTEMS SHALL BE A DEDICATED CIRCUIT AND ON EMERGENCY POWER SUPPLIES AVAILABLE.

SECURITY GENERAL NOTES

- 1. ALL 120V POWER FOR THE SYSTEMS SHALL BE INSTALLED WITHIN THE ENCLOSURE OR INSTALLED IN CONDUIT CONNECTED TO THE ENCLOSURE SUCH THAT NO CABLING IS EXPOSED.



Table with columns: ARCHITECT, PROJECT, ADDRESS, PHONE, FAX, WEBSITE. Lists project details for PBK Architects, Inc.



Table with columns: ARCHITECT, PROJECT, ADDRESS, PHONE, FAX, WEBSITE. Lists project details for Leaf Engineers.

WFAC Black Box Addition PKG 1. 1801 Marlin Luther King Dr., San Antonio, TX, 78203. ISSUE FOR CONSTRUCTION

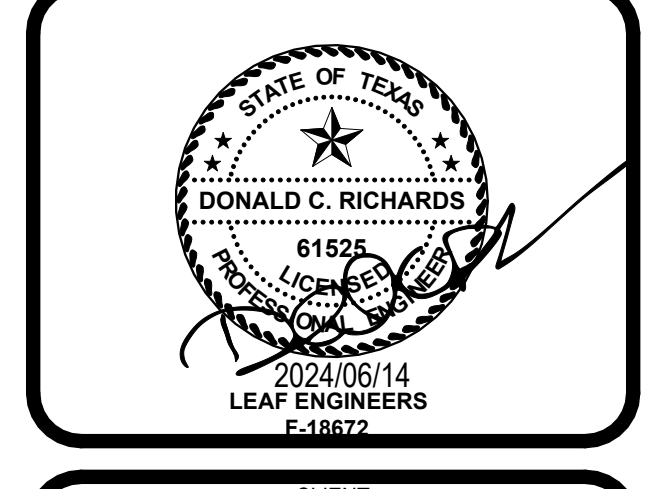
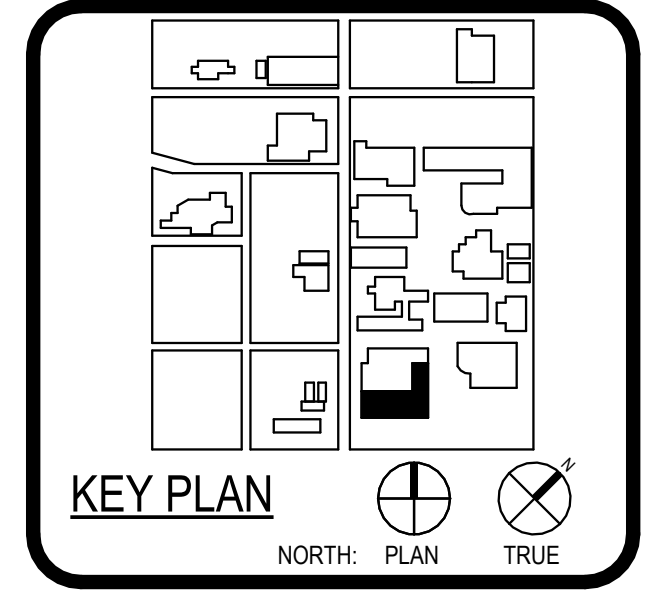


Table with columns: CLIENT, DATE, PROJECT NUMBER. Lists client and project information for Alamo Colleges.

Table with columns: No., Description, Date. Drawing history table.

ISSUE FOR CONSTRUCTION. BUILDING NUMBER 1. TECHNOLOGY SYSTEM NOTES AND LEGENDS

